

Appendix D. GSM/UMTS/LTE/NR/NTN Output Power (Unit: dBm)

<WCDMA Conducted Power>

1. The following tests were conducted according to the test requirements outlines in 3GPP TS 34.121 specification.
2. The procedures in KDB 941225 D01v03r01 are applied for 3GPP Rel. 6 HSPA to configure the device in the required sub-test mode(s) to determine SAR test exclusion.

A summary of these settings are illustrated below:

HSDPA Setup Configuration:

- a. The EUT was connected to Base Station Agilent E5515C referred to the Setup Configuration.
- b. The RF path losses were compensated into the measurements.
- c. A call was established between EUT and Base Station with following setting:
 - i. Set Gain Factors (β_c and β_d) and parameters were set according to each
 - ii. Specific sub-test in the following table, C10.1.4, quoted from the TS 34.121
 - iii. Set RMC 12.2Kbps + HSDPA mode.
 - iv. Set Cell Power = -86 dBm
 - v. Set HS-DSCH Configuration Type to FRC (H-set 1, QPSK)
 - vi. Select HSDPA Uplink Parameters
 - vii. Set Delta ACK, Delta NACK and Delta CQI = 8
 - viii. Set Ack-Nack Repetition Factor to 3
 - ix. Set CQI Feedback Cycle (k) to 4 ms
 - x. Set CQI Repetition Factor to 2
 - xi. Power Ctrl Mode = All Up bits
- d. The transmitted maximum output power was recorded.

Table C.10.1.4: β values for transmitter characteristics tests with HS-DPCCH

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{hs} (Note 1, Note 2)	CM (dB) (Note 3)	MPR (dB) (Note 3)
1	2/15	15/15	64	2/15	4/15	0.0	0.0
2	12/15 (Note 4)	15/15 (Note 4)	64	12/15 (Note 4)	24/15	1.0	0.0
3	15/15	8/15	64	15/8	30/15	1.5	0.5
4	15/15	4/15	64	15/4	30/15	1.5	0.5

Note 1: Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 30/15$ with $\beta_{hs} = 30/15 * \beta_c$.

Note 2: For the HS-DPCCH power mask requirement test in clause 5.2C, 5.7A, and the Error Vector Magnitude (EVM) with HS-DPCCH test in clause 5.13.1A, and HSDPA EVM with phase discontinuity in clause 5.13.1AA, Δ_{ACK} and $\Delta_{NACK} = 30/15$ with $\beta_{hs} = 30/15 * \beta_c$, and $\Delta_{CQI} = 24/15$ with $\beta_{hs} = 24/15 * \beta_c$.

Note 3: CM = 1 for $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$. For all other combinations of DPDCCH, DPCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases.

Note 4: For subtest 2 the β_c/β_d ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 11/15$ and $\beta_d = 15/15$.

Setup Configuration

HSUPA Setup Configuration:

- a. The EUT was connected to Base Station Agilent E5515C referred to the Setup Configuration.
- b. The RF path losses were compensated into the measurements.
- c. A call was established between EUT and Base Station with following setting * :
 - i. Call Configs = 5.2B, 5.9B, 5.10B, and 5.13.2B with QPSK
 - ii. Set the Gain Factors (β_c and β_d) and parameters (AG Index) were set according to each specific sub-test in the following table, C11.1.3, quoted from the TS 34.121
 - iii. Set Cell Power = -86 dBm
 - iv. Set Channel Type = 12.2k + HSPA
 - v. Set UE Target Power
 - vi. Power Ctrl Mode= Alternating bits
 - vii. Set and observe the E-TFCI
 - viii. Confirm that E-TFCI is equal to the target E-TFCI of 75 for sub-test 1, and other subtest's E-TFCI
- d. The transmitted maximum output power was recorded.

Table C.11.1.3: β values for transmitter characteristics tests with HS-DPCCH and E-DCH

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{HS} (Note 1)	β_{ec}	β_{ed} (Note 4) (Note 5)	β_{ed} (SF)	β_{ed} (Codes)	CM (dB) (Note 2)	MPR (dB) (Note 2) (Note 6)	AG Index (Note 5)	E-TFCI
1	11/15 (Note 3)	15/15 (Note 3)	64	11/15 (Note 3)	22/15	209/25	1309/225	4	1	1.0	0.0	20	75
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67
3	15/15	9/15	64	15/9	30/15	30/15	$\beta_{ed1}: 47/15$ $\beta_{ed2}: 47/15$	4	2	2.0	1.0	15	92
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71
5	15/15	0	-	-	5/15	5/15	47/15	4	1	1.0	0.0	12	67

Note 1: For sub-test 1 to 4, Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 30/15$ with $\beta_{hs} = 30/15 * \beta_c$. For sub-test 5, Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 5/15$ with $\beta_{hs} = 5/15 * \beta_c$.

Note 2: CM = 1 for $\beta_d/\beta_c = 12/15$, $\beta_{hs}/\beta_c = 24/15$. For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.

Note 3: For subtest 1 the β_c/β_d ratio of 11/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 10/15$ and $\beta_d = 15/15$.

Note 4: In case of testing by UE using E-DPDCH Physical Layer category 1, Sub-test 3 is omitted according to TS25.306 Table 5.1g.

Note 5: β_{ed} can not be set directly; it is set by Absolute Grant Value.

Note 6: For subtests 2, 3 and 4, UE may perform E-DPDCH power scaling at max power which could results in slightly smaller MPR values.

Setup Configuration



<WCDMA Conducted Power>

General Note:

1. Per KDB 941225 D01v03r01, for SAR testing is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".
2. Per KDB 941225 D01v03r01, RMC 12.2kbps setting is used to evaluate SAR. The maximum output power and tune-up tolerance specified for production units in HSDPA / HSUPA is $\leq \frac{1}{4}$ dB higher than RMC 12.2Kbps or when the highest reported SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power and tune-up tolerance of HSDPA / HSUPA to RMC12.2Kbps and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for HSDPA / HSUPA, and according to the following RF output power, the output power results of the secondary modes (HSUPA, HSDPA) are less than $\frac{1}{4}$ dB higher than the primary modes; therefore, SAR measurement is not required for HSDPA / HSUPA.

Band		WCDMA II_Ant Main_Sensor OFF			Tune-up Limit (dBm)	WCDMA IV_Ant Main_Sensor OFF			Tune-up Limit (dBm)	WCDMA V_Ant Main_Sensor OFF			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel		9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99	RMC 12.2Kbps	23.67	23.66	23.56	24.50	23.66	23.72	23.63	24.50	23.74	23.87	23.91	24.50
3GPP Rel 6	HSDPA Subtest-1	22.70	22.65	22.59	23.50	22.71	22.68	22.65	23.50	22.68	22.73	22.64	23.50
3GPP Rel 6	HSDPA Subtest-2	22.73	22.72	22.60	23.50	22.74	22.67	22.69	23.50	22.70	22.75	22.61	23.50
3GPP Rel 6	HSDPA Subtest-3	22.25	22.19	22.08	23.00	22.20	22.23	22.21	23.00	22.20	22.25	22.10	23.00
3GPP Rel 6	HSDPA Subtest-4	22.21	22.17	22.11	23.00	22.22	22.19	22.17	23.00	22.20	22.25	22.21	23.00
3GPP Rel 6	HSUPA Subtest-1	21.64	21.61	21.56	23.50	21.69	21.68	21.61	23.50	22.82	22.94	22.93	23.50
3GPP Rel 6	HSUPA Subtest-2	19.61	19.57	19.57	21.50	19.72	19.78	19.64	21.50	20.84	20.91	20.84	21.50
3GPP Rel 6	HSUPA Subtest-3	20.77	20.68	20.55	22.50	20.75	20.69	20.59	22.50	21.82	21.88	21.92	22.50
3GPP Rel 6	HSUPA Subtest-4	19.75	19.74	19.54	21.50	19.71	19.64	19.68	21.50	20.80	20.90	20.97	21.50
3GPP Rel 6	HSUPA Subtest-5	21.70	21.60	21.60	23.50	21.70	21.60	21.70	23.50	22.80	22.90	22.90	23.50

Band		WCDMA II_Ant Main_Sensor ON			Tune-up Limit (dBm)	WCDMA IV_Ant Main_Sensor ON			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513	
Rx Channel		9662	9800	9938		1537	1638	1738	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6	
3GPP Rel 99	RMC 12.2Kbps	17.49	17.47	17.38	17.90	17.70	17.71	17.67	18.20
3GPP Rel 6	HSDPA Subtest-1	16.49	16.46	16.44	16.90	16.75	16.70	16.65	17.50
3GPP Rel 6	HSDPA Subtest-2	16.48	16.45	16.43	16.90	16.72	16.69	16.64	17.50
3GPP Rel 6	HSDPA Subtest-3	15.97	15.93	15.96	16.40	16.29	16.19	16.20	17.00
3GPP Rel 6	HSDPA Subtest-4	15.96	15.95	15.94	16.40	16.27	16.19	16.15	17.00
3GPP Rel 6	HSUPA Subtest-1	15.53	15.46	15.43	16.90	16.44	16.39	16.35	17.50
3GPP Rel 6	HSUPA Subtest-2	14.49	14.43	14.49	14.90	15.41	15.35	15.38	15.50
3GPP Rel 6	HSUPA Subtest-3	15.47	15.49	15.41	15.90	16.39	16.39	16.35	16.50
3GPP Rel 6	HSUPA Subtest-4	14.45	14.49	14.40	14.90	15.41	15.34	15.40	15.50
3GPP Rel 6	HSUPA Subtest-5	16.50	16.50	16.50	16.90	17.40	17.40	17.40	17.50

<LTE Conducted Power>**General Note:**

1. A Base station simulator was used to setup the connection with EUT; the frequency band, channel bandwidth, RB allocation configuration, modulation type are set in the base station simulator to configure EUT transmitting at maximum power and at different configurations which are requested to be reported to FCC, for conducted power measurement and SAR testing.
2. Per KDB 941225 D05v02r05, when a properly configured base station simulator is used for the SAR and power measurements, spectrum plots for each RB allocation and offset configuration is not required.
3. Per KDB 941225 D05v02r05, start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
4. Per KDB 941225 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
5. Per KDB 941225 D05v02r05, For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
6. Per KDB 941225 D05v02r05, 16QAM output power for each RB allocation configuration is $>$ not $\frac{1}{2}$ dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, 16QAM SAR testing is not required.
7. Per KDB 941225 D05v02r05, Smaller bandwidth output power for each RB allocation configuration is $>$ not $\frac{1}{2}$ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, smaller bandwidth SAR testing is not required.
8. For LTE B4/B5/B12/B17/B26/B38/B71 the maximum bandwidth does not support three non-overlapping channels, per KDB 941225 D05v02r05, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.
9. LTE band 2/4/5/17/38 SAR test was covered by Band 25/66/26/12/41; according to April 2015 TCB workshop, SAR test for overlapping LTE bands can be reduced if
 - a. the maximum output power, including tolerance, for the smaller band is $\leq$ the larger band to qualify for the SAR test exclusion
 - b. the channel bandwidth and other operating parameters for the smaller band are fully supported by the larger band

**<LTE Band 2_Ant Main_Sensor OFF>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	23.06	22.90	22.99	24.5
20	QPSK	1	49	23.01	22.90	22.97	
20	QPSK	1	99	22.81	22.84	22.92	
20	QPSK	50	0	21.97	21.89	21.97	23.5
20	QPSK	50	24	22.02	21.95	22.03	
20	QPSK	50	50	21.94	21.88	21.98	
20	QPSK	100	0	21.98	21.91	21.99	
20	16QAM	1	0	22.37	22.22	22.28	23.5
20	16QAM	1	49	22.35	22.29	22.25	
20	16QAM	1	99	22.11	22.11	22.22	
20	16QAM	50	0	21.01	20.90	21.01	22.5
20	16QAM	50	24	21.05	20.98	21.06	
20	16QAM	50	50	20.97	20.90	21.00	
20	16QAM	100	0	20.99	20.91	21.02	
20	64QAM	1	0	21.97	21.19	21.22	22.5
20	64QAM	1	49	21.16	21.22	21.21	
20	64QAM	1	99	21.08	21.07	21.18	
20	64QAM	50	0	20.00	19.92	19.99	21.5
20	64QAM	50	24	20.06	19.98	20.08	
20	64QAM	50	50	19.98	19.90	19.99	
20	64QAM	100	0	20.03	19.94	20.02	
20	256QAM	1	0	17.82	17.77	17.85	19.5
20	256QAM	1	49	17.92	17.85	17.90	
20	256QAM	1	99	17.82	17.78	17.82	
20	256QAM	50	0	17.79	17.75	17.80	19.5
20	256QAM	50	24	17.87	17.79	17.84	
20	256QAM	50	50	17.85	17.80	17.88	
20	256QAM	100	0	17.83	17.76	17.80	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	23.01	22.93	22.98	24.5
15	QPSK	1	37	23.01	22.93	23.04	
15	QPSK	1	74	22.84	22.88	23.03	
15	QPSK	36	0	21.97	21.99	21.98	23.5
15	QPSK	36	20	22.03	22.00	22.01	
15	QPSK	36	39	22.01	21.92	22.04	
15	QPSK	75	0	22.01	21.92	21.96	23.5
15	16QAM	1	0	22.30	22.22	22.29	
15	16QAM	1	37	22.33	22.23	22.31	
15	16QAM	1	74	22.11	22.15	22.24	
15	16QAM	36	0	21.01	21.00	21.03	22.5
15	16QAM	36	20	21.09	21.00	21.01	
15	16QAM	36	39	21.02	20.94	21.06	
15	16QAM	75	0	21.02	20.98	21.00	
15	64QAM	1	0	21.19	21.14	21.26	22.5
15	64QAM	1	37	21.23	21.15	21.30	
15	64QAM	1	74	21.14	21.12	21.22	
15	64QAM	36	0	19.99	20.01	20.02	21.5
15	64QAM	36	20	20.08	20.02	20.04	
15	64QAM	36	39	20.02	19.96	20.07	
15	64QAM	75	0	20.07	19.97	20.02	
15	256QAM	1	0	17.76	17.65	17.75	19.5
15	256QAM	1	37	17.88	17.82	17.78	
15	256QAM	1	74	17.76	17.75	17.73	
15	256QAM	36	0	17.69	17.59	17.74	19.5
15	256QAM	36	20	17.71	17.76	17.69	



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15	256QAM	36	39	17.73	17.72	17.72	Tune-up limit (dBm)
15	256QAM	75	0	17.67	17.73	17.65	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	22.89	22.88	22.83	24.5
10	QPSK	1	25	22.89	22.86	22.90	
10	QPSK	1	49	22.70	22.78	22.93	
10	QPSK	25	0	21.90	21.88	21.90	23.5
10	QPSK	25	12	21.90	21.93	21.87	
10	QPSK	25	25	21.96	21.82	21.98	
10	QPSK	50	0	21.93	21.85	21.84	
10	16QAM	1	0	22.20	22.14	22.15	23.5
10	16QAM	1	25	22.19	22.17	22.18	
10	16QAM	1	49	22.03	22.04	22.19	
10	16QAM	25	0	20.88	20.90	20.97	22.5
10	16QAM	25	12	21.03	20.86	20.96	
10	16QAM	25	25	20.93	20.86	21.00	
10	16QAM	50	0	20.89	20.90	20.85	
10	64QAM	1	0	21.06	21.03	21.13	22.5
10	64QAM	1	25	21.14	21.10	21.19	
10	64QAM	1	49	21.07	20.98	21.08	
10	64QAM	25	0	19.91	19.94	19.96	21.5
10	64QAM	25	12	19.93	19.93	19.91	
10	64QAM	25	25	19.91	19.90	19.94	
10	64QAM	50	0	19.96	19.91	19.96	
10	256QAM	1	0	17.69	17.65	17.71	19.5
10	256QAM	1	25	17.88	17.73	17.82	
10	256QAM	1	49	17.73	17.65	17.73	
10	256QAM	25	0	17.67	17.65	17.64	19.5
10	256QAM	25	12	17.76	17.67	17.80	
10	256QAM	25	25	17.71	17.64	17.78	
10	256QAM	50	0	17.76	17.60	17.71	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	22.86	22.82	22.86	24.5
5	QPSK	1	12	22.95	22.85	22.93	
5	QPSK	1	24	22.74	22.75	22.98	
5	QPSK	12	0	21.90	21.87	21.85	23.5
5	QPSK	12	7	21.92	21.93	21.94	
5	QPSK	12	13	21.91	21.78	21.97	
5	QPSK	25	0	21.88	21.77	21.90	
5	16QAM	1	0	22.17	22.16	22.22	23.5
5	16QAM	1	12	22.18	22.08	22.22	
5	16QAM	1	24	22.06	22.10	22.13	
5	16QAM	12	0	20.96	20.89	20.92	22.5
5	16QAM	12	7	20.95	20.88	20.87	
5	16QAM	12	13	20.91	20.83	20.96	
5	16QAM	25	0	20.96	20.89	20.89	
5	64QAM	1	0	21.04	21.03	21.17	22.5
5	64QAM	1	12	21.13	21.02	21.19	
5	64QAM	1	24	21.00	20.97	21.07	
5	64QAM	12	0	19.89	19.87	19.96	21.5
5	64QAM	12	7	19.93	19.89	19.96	
5	64QAM	12	13	19.97	19.89	19.93	
5	64QAM	25	0	19.97	19.87	19.88	
5	256QAM	1	0	17.70	17.62	17.80	19.5
5	256QAM	1	12	17.77	17.71	17.82	
5	256QAM	1	24	17.66	17.74	17.69	
5	256QAM	12	0	17.69	17.63	17.72	19.5
5	256QAM	12	7	17.74	17.73	17.79	
5	256QAM	12	13	17.76	17.66	17.76	
5	256QAM	25	0	17.69	17.61	17.69	
Channel				18615	18900	19185	Tune-up limit



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Frequency (MHz)				1851.5	1880	1908.5	(dBm)
3	QPSK	1	0	22.77	22.76	22.71	24.5
3	QPSK	1	8	22.84	22.76	22.84	
3	QPSK	1	14	22.67	22.66	22.90	
3	QPSK	8	0	21.85	21.79	21.72	23.5
3	QPSK	8	4	21.81	21.79	21.80	
3	QPSK	8	7	21.81	21.65	21.82	
3	QPSK	15	0	21.74	21.64	21.76	23.5
3	16QAM	1	0	22.08	22.02	22.11	
3	16QAM	1	8	22.09	22.02	22.13	
3	16QAM	1	14	21.91	21.98	22.03	22.5
3	16QAM	8	0	20.87	20.81	20.86	
3	16QAM	8	4	20.84	20.74	20.77	
3	16QAM	8	7	20.82	20.75	20.85	22.5
3	16QAM	15	0	20.85	20.75	20.78	
3	64QAM	1	0	20.94	20.93	21.04	
3	64QAM	1	8	21.04	20.97	21.14	21.5
3	64QAM	1	14	20.93	20.87	20.97	
3	64QAM	8	0	19.76	19.77	19.88	
3	64QAM	8	4	19.83	19.80	19.82	19.5
3	64QAM	8	7	19.85	19.79	19.84	
3	64QAM	15	0	19.82	19.73	19.77	
3	256QAM	1	0	17.71	17.63	17.72	19.5
3	256QAM	1	8	17.86	17.69	17.85	
3	256QAM	1	14	17.67	17.73	17.76	
3	256QAM	8	0	17.71	17.59	17.70	19.5
3	256QAM	8	4	17.79	17.67	17.72	
3	256QAM	8	7	17.75	17.75	17.73	
3	256QAM	15	0	17.72	17.68	17.76	Tune-up limit (dBm)
Channel				18607	18900	19193	
Frequency (MHz)				1850.7	1880	1909.3	24.5
1.4	QPSK	1	0	22.95	22.90	22.99	
1.4	QPSK	1	3	22.94	22.85	23.00	
1.4	QPSK	1	5	22.97	22.89	22.97	23.5
1.4	QPSK	3	0	22.98	22.90	23.01	
1.4	QPSK	3	1	22.99	22.91	23.00	
1.4	QPSK	3	3	22.97	22.92	23.01	23.5
1.4	QPSK	6	0	22.01	21.92	22.03	
1.4	16QAM	1	0	22.33	22.25	22.36	
1.4	16QAM	1	3	22.36	22.23	22.34	22.5
1.4	16QAM	1	5	22.29	22.22	22.34	
1.4	16QAM	3	0	22.12	22.05	22.11	
1.4	16QAM	3	1	22.12	22.00	22.14	22.5
1.4	16QAM	3	3	22.11	22.00	22.13	
1.4	16QAM	6	0	21.10	21.01	21.11	
1.4	64QAM	1	0	21.29	21.17	21.29	21.5
1.4	64QAM	1	3	21.24	21.12	21.26	
1.4	64QAM	1	5	21.26	21.09	21.26	
1.4	64QAM	3	0	21.18	21.09	21.24	19.5
1.4	64QAM	3	1	21.12	21.12	21.23	
1.4	64QAM	3	3	21.18	21.08	21.18	
1.4	64QAM	6	0	20.09	20.03	20.07	19.5
1.4	256QAM	1	0	17.73	17.62	17.77	
1.4	256QAM	1	3	17.83	17.82	17.87	
1.4	256QAM	1	5	17.78	17.62	17.70	19.5
1.4	256QAM	3	0	17.64	17.72	17.71	
1.4	256QAM	3	1	17.72	17.65	17.68	
1.4	256QAM	3	3	17.82	17.73	17.83	19.5
1.4	256QAM	6	0	17.67	17.66	17.70	



<LTE Band 2_Ant MIMO2_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	23.71	23.75	23.44	
20	QPSK	1	49	23.63	23.67	23.36	24.5
20	QPSK	1	99	23.58	23.62	23.31	
20	QPSK	50	0	22.54	22.58	22.29	
20	QPSK	50	24	22.58	22.62	22.32	23.5
20	QPSK	50	50	22.56	22.60	22.31	
20	QPSK	100	0	22.62	22.66	22.36	
20	16QAM	1	0	22.56	22.60	22.31	23.5
20	16QAM	1	49	22.61	22.65	22.35	
20	16QAM	1	99	22.55	22.59	22.30	
20	16QAM	50	0	21.48	21.52	21.24	22.5
20	16QAM	50	24	21.62	21.66	21.38	
20	16QAM	50	50	21.58	21.62	21.34	
20	16QAM	100	0	21.57	21.61	21.33	22.5
20	64QAM	1	0	21.47	21.51	21.23	
20	64QAM	1	49	21.59	21.63	21.35	
20	64QAM	1	99	21.53	21.57	21.29	21.5
20	64QAM	50	0	20.52	20.55	20.28	
20	64QAM	50	24	20.65	20.68	20.41	
20	64QAM	50	50	20.57	20.60	20.33	19.5
20	64QAM	100	0	20.52	20.55	20.28	
20	256QAM	1	0	18.68	18.74	18.42	
20	256QAM	1	49	18.76	18.81	18.51	19.5
20	256QAM	1	99	18.66	18.70	18.39	
20	256QAM	50	0	18.66	18.69	18.41	
20	256QAM	50	24	18.70	18.78	18.50	19.5
20	256QAM	50	50	18.72	18.76	18.44	
20	256QAM	100	0	18.67	18.75	18.43	
Channel				18675	18900	19125	
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	23.66	23.68	23.36	
15	QPSK	1	37	23.54	23.61	23.26	24.5
15	QPSK	1	74	23.55	23.52	23.25	
15	QPSK	36	0	22.45	22.49	22.24	
15	QPSK	36	20	22.54	22.57	22.23	23.5
15	QPSK	36	39	22.46	22.55	22.22	
15	QPSK	75	0	22.59	22.61	22.29	
15	16QAM	1	0	22.48	22.56	22.24	23.5
15	16QAM	1	37	22.55	22.63	22.31	
15	16QAM	1	74	22.48	22.56	22.21	
15	16QAM	36	0	21.40	21.44	21.17	22.5
15	16QAM	36	20	21.52	21.63	21.28	
15	16QAM	36	39	21.50	21.60	21.26	
15	16QAM	75	0	21.49	21.57	21.29	22.5
15	64QAM	1	0	21.45	21.42	21.15	
15	64QAM	1	37	21.55	21.61	21.32	
15	64QAM	1	74	21.47	21.54	21.23	21.5
15	64QAM	36	0	20.42	20.50	20.19	
15	64QAM	36	20	20.59	20.66	20.37	
15	64QAM	36	39	20.52	20.50	20.26	19.5
15	64QAM	75	0	20.48	20.46	20.20	
15	256QAM	1	0	18.57	18.63	18.37	
15	256QAM	1	37	18.65	18.70	18.42	19.5
15	256QAM	1	74	18.60	18.63	18.30	
15	256QAM	36	0	18.63	18.62	18.38	
15	256QAM	36	20	18.56	18.71	18.38	19.5



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15	256QAM	36	39	18.64	18.60	18.32	Tune-up limit (dBm)
15	256QAM	75	0	18.54	18.72	18.33	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	23.61	23.69	23.34	24.5
10	QPSK	1	25	23.61	23.59	23.30	
10	QPSK	1	49	23.48	23.53	23.21	
10	QPSK	25	0	22.50	22.48	22.19	23.5
10	QPSK	25	12	22.56	22.58	22.26	
10	QPSK	25	25	22.49	22.52	22.25	
10	QPSK	50	0	22.59	22.57	22.27	
10	16QAM	1	0	22.47	22.55	22.27	23.5
10	16QAM	1	25	22.54	22.63	22.28	
10	16QAM	1	49	22.47	22.53	22.27	
10	16QAM	25	0	21.45	21.45	21.20	22.5
10	16QAM	25	12	21.52	21.62	21.35	
10	16QAM	25	25	21.50	21.55	21.26	
10	16QAM	50	0	21.53	21.51	21.30	
10	64QAM	1	0	21.40	21.43	21.15	22.5
10	64QAM	1	25	21.53	21.57	21.30	
10	64QAM	1	49	21.45	21.48	21.27	
10	64QAM	25	0	20.43	20.50	20.20	21.5
10	64QAM	25	12	20.57	20.63	20.37	
10	64QAM	25	25	20.48	20.55	20.27	
10	64QAM	50	0	20.47	20.49	20.21	
10	256QAM	1	0	18.54	18.63	18.31	19.5
10	256QAM	1	25	18.67	18.74	18.43	
10	256QAM	1	49	18.62	18.55	18.23	
10	256QAM	25	0	18.62	18.66	18.30	19.5
10	256QAM	25	12	18.58	18.73	18.37	
10	256QAM	25	25	18.56	18.64	18.41	
10	256QAM	50	0	18.53	18.64	18.27	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	23.68	23.66	23.38	24.5
5	QPSK	1	12	23.61	23.61	23.27	
5	QPSK	1	24	23.55	23.53	23.29	
5	QPSK	12	0	22.48	22.50	22.20	23.5
5	QPSK	12	7	22.48	22.55	22.26	
5	QPSK	12	13	22.46	22.54	22.24	
5	QPSK	25	0	22.56	22.57	22.31	
5	16QAM	1	0	22.54	22.52	22.26	23.5
5	16QAM	1	12	22.51	22.63	22.30	
5	16QAM	1	24	22.49	22.52	22.23	
5	16QAM	12	0	21.44	21.47	21.22	22.5
5	16QAM	12	7	21.53	21.61	21.32	
5	16QAM	12	13	21.49	21.55	21.27	
5	16QAM	25	0	21.55	21.56	21.30	
5	64QAM	1	0	21.37	21.45	21.15	22.5
5	64QAM	1	12	21.57	21.59	21.30	
5	64QAM	1	24	21.51	21.47	21.27	
5	64QAM	12	0	20.46	20.45	20.26	21.5
5	64QAM	12	7	20.61	20.65	20.34	
5	64QAM	12	13	20.49	20.51	20.27	
5	64QAM	25	0	20.43	20.53	20.24	
5	256QAM	1	0	18.59	18.58	18.39	19.5
5	256QAM	1	12	18.72	18.68	18.45	
5	256QAM	1	24	18.56	18.57	18.25	
5	256QAM	12	0	18.60	18.65	18.31	19.5
5	256QAM	12	7	18.58	18.67	18.44	
5	256QAM	12	13	18.61	18.68	18.29	
5	256QAM	25	0	18.61	18.72	18.30	
Channel				18615	18900	19185	Tune-up limit



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Frequency (MHz)				1851.5	1880	1908.5	(dBm)
3	QPSK	1	0	23.68	23.73	23.42	24.5
3	QPSK	1	8	23.59	23.60	23.31	
3	QPSK	1	14	23.50	23.52	23.27	
3	QPSK	8	0	22.50	22.55	22.19	23.5
3	QPSK	8	4	22.51	22.57	22.29	
3	QPSK	8	7	22.54	22.56	22.29	
3	QPSK	15	0	22.60	22.61	22.27	23.5
3	16QAM	1	0	22.52	22.53	22.27	
3	16QAM	1	8	22.55	22.62	22.25	
3	16QAM	1	14	22.52	22.49	22.22	22.5
3	16QAM	8	0	21.40	21.46	21.19	
3	16QAM	8	4	21.58	21.56	21.28	
3	16QAM	8	7	21.48	21.54	21.29	22.5
3	16QAM	15	0	21.52	21.54	21.23	
3	64QAM	1	0	21.44	21.43	21.16	
3	64QAM	1	8	21.55	21.57	21.32	21.5
3	64QAM	1	14	21.51	21.50	21.24	
3	64QAM	8	0	20.48	20.47	20.18	
3	64QAM	8	4	20.59	20.59	20.36	19.5
3	64QAM	8	7	20.52	20.55	20.23	
3	64QAM	15	0	20.48	20.51	20.26	
3	256QAM	1	0	18.55	18.51	18.34	19.5
3	256QAM	1	8	18.63	18.64	18.39	
3	256QAM	1	14	18.53	18.51	18.19	
3	256QAM	8	0	18.55	18.58	18.25	19.5
3	256QAM	8	4	18.51	18.58	18.38	
3	256QAM	8	7	18.52	18.63	18.21	
3	256QAM	15	0	18.55	18.69	18.22	Tune-up limit (dBm)
Channel				18607	18900	19193	
Frequency (MHz)				1850.7	1880	1909.3	24.5
1.4	QPSK	1	0	23.63	23.67	23.58	
1.4	QPSK	1	3	23.61	23.65	23.56	
1.4	QPSK	1	5	23.60	23.64	23.55	23.5
1.4	QPSK	3	0	23.54	23.58	23.49	
1.4	QPSK	3	1	23.48	23.52	23.43	
1.4	QPSK	3	3	23.47	23.51	23.42	23.5
1.4	QPSK	6	0	22.46	22.50	22.41	
1.4	16QAM	1	0	22.74	22.78	22.69	
1.4	16QAM	1	3	22.68	22.72	22.63	22.5
1.4	16QAM	1	5	22.66	22.70	22.61	
1.4	16QAM	3	0	22.63	22.67	22.58	
1.4	16QAM	3	1	22.65	22.69	22.60	22.5
1.4	16QAM	3	3	22.60	22.64	22.55	
1.4	16QAM	6	0	21.46	21.50	21.42	
1.4	64QAM	1	0	21.67	21.71	21.63	21.5
1.4	64QAM	1	3	21.60	21.64	21.56	
1.4	64QAM	1	5	21.61	21.65	21.57	
1.4	64QAM	3	0	21.88	21.92	21.84	19.5
1.4	64QAM	3	1	21.86	21.90	21.82	
1.4	64QAM	3	3	21.84	21.88	21.80	
1.4	64QAM	6	0	20.62	20.65	20.57	19.5
1.4	256QAM	1	0	18.76	18.84	18.71	
1.4	256QAM	1	3	18.75	18.79	18.67	
1.4	256QAM	1	5	18.87	18.91	18.79	19.5
1.4	256QAM	3	0	18.76	18.81	18.68	
1.4	256QAM	3	1	18.75	18.78	18.68	
1.4	256QAM	3	3	18.71	18.75	18.66	19.5
1.4	256QAM	6	0	18.74	18.79	18.67	

**<LTE Band 4_Ant Main_Sensor OFF>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	22.95	22.99	22.90	24.5
20	QPSK	1	49	22.93	22.86	22.90	
20	QPSK	1	99	22.74	22.70	22.77	
20	QPSK	50	0	21.93	21.91	21.92	23.5
20	QPSK	50	24	21.98	21.97	21.89	
20	QPSK	50	50	21.92	21.90	21.90	
20	QPSK	100	0	21.94	21.95	21.87	
20	16QAM	1	0	22.18	22.24	22.22	23.5
20	16QAM	1	49	22.33	22.22	22.21	
20	16QAM	1	99	22.06	22.04	22.12	
20	16QAM	50	0	20.95	20.97	20.95	22.5
20	16QAM	50	24	21.02	21.00	20.93	
20	16QAM	50	50	20.93	20.92	20.92	
20	16QAM	100	0	20.96	20.97	20.87	
20	64QAM	1	0	21.13	21.13	21.15	22.5
20	64QAM	1	49	21.19	21.06	21.19	
20	64QAM	1	99	20.96	20.93	21.00	
20	64QAM	50	0	19.94	19.93	19.94	21.5
20	64QAM	50	24	20.01	20.04	19.93	
20	64QAM	50	50	19.97	19.92	19.92	
20	64QAM	100	0	19.96	19.94	19.91	
20	256QAM	1	0	18.06	18.04	17.98	19.5
20	256QAM	1	49	17.98	18.01	17.93	
20	256QAM	1	99	18.05	18.06	18.01	
20	256QAM	50	0	17.98	18.00	17.97	19.5
20	256QAM	50	24	18.05	18.04	17.97	
20	256QAM	50	50	18.05	18.03	17.99	
20	256QAM	100	0	18.00	17.99	17.96	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	22.94	22.98	22.93	24.5
15	QPSK	1	37	22.92	22.97	22.92	
15	QPSK	1	74	22.83	22.82	22.82	
15	QPSK	36	0	21.95	21.95	21.93	23.5
15	QPSK	36	20	22.03	22.00	21.98	
15	QPSK	36	39	21.95	21.91	21.94	
15	QPSK	75	0	21.98	21.97	21.96	
15	16QAM	1	0	22.26	22.31	22.25	23.5
15	16QAM	1	37	22.27	22.26	22.20	
15	16QAM	1	74	22.19	22.11	22.14	
15	16QAM	36	0	20.95	20.96	20.95	22.5
15	16QAM	36	20	21.02	21.02	21.01	
15	16QAM	36	39	21.01	20.96	20.95	
15	16QAM	75	0	21.00	20.98	20.98	
15	64QAM	1	0	21.20	21.23	21.19	22.5
15	64QAM	1	37	21.21	21.25	21.29	
15	64QAM	1	74	21.07	21.05	20.98	
15	64QAM	36	0	19.97	20.01	19.94	
15	64QAM	36	20	20.03	20.06	20.01	21.5
15	64QAM	36	39	19.96	19.98	19.97	
15	64QAM	75	0	20.02	20.00	20.00	
15	256QAM	1	0	17.98	17.97	17.83	
15	256QAM	1	37	17.87	17.88	17.84	19.5
15	256QAM	1	74	17.90	17.96	17.89	
15	256QAM	36	0	17.84	17.86	17.81	



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15	256QAM	36	20	17.95	17.95	17.82	
15	256QAM	36	39	17.93	17.92	17.89	
15	256QAM	75	0	17.94	17.89	17.85	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	22.84	22.89	22.81	24.5
10	QPSK	1	25	22.88	22.79	22.74	
10	QPSK	1	49	22.75	22.76	22.80	
10	QPSK	25	0	21.78	21.92	21.86	23.5
10	QPSK	25	12	21.83	21.93	21.85	
10	QPSK	25	25	21.89	21.81	21.78	
10	QPSK	50	0	21.84	21.91	21.92	
10	16QAM	1	0	22.07	22.26	22.12	23.5
10	16QAM	1	25	22.17	22.19	22.07	
10	16QAM	1	49	22.02	22.09	22.00	
10	16QAM	25	0	20.75	20.76	20.92	22.5
10	16QAM	25	12	20.82	21.00	20.83	
10	16QAM	25	25	20.88	20.94	20.90	
10	16QAM	50	0	20.92	20.84	20.89	
10	64QAM	1	0	21.02	21.13	21.00	22.5
10	64QAM	1	25	21.12	21.05	21.20	
10	64QAM	1	49	20.95	20.96	20.82	
10	64QAM	25	0	19.82	19.88	19.77	21.5
10	64QAM	25	12	19.89	19.96	19.85	
10	64QAM	25	25	19.93	19.87	19.82	
10	64QAM	50	0	19.96	19.85	19.82	
10	256QAM	1	0	17.90	17.88	17.83	19.5
10	256QAM	1	25	17.87	17.86	17.87	
10	256QAM	1	49	17.89	18.00	17.92	
10	256QAM	25	0	17.89	17.92	17.88	19.5
10	256QAM	25	12	17.94	17.91	17.83	
10	256QAM	25	25	17.94	17.96	17.86	
10	256QAM	50	0	17.88	17.85	17.81	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	22.91	22.82	22.81	24.5
5	QPSK	1	12	22.75	22.83	22.80	
5	QPSK	1	24	22.65	22.68	22.72	
5	QPSK	12	0	21.82	21.91	21.83	23.5
5	QPSK	12	7	21.89	21.82	21.82	
5	QPSK	12	13	21.80	21.78	21.80	
5	QPSK	25	0	21.79	21.85	21.89	
5	16QAM	1	0	22.18	22.15	22.23	23.5
5	16QAM	1	12	22.24	22.07	22.08	
5	16QAM	1	24	21.99	21.93	22.10	
5	16QAM	12	0	20.80	20.84	20.75	22.5
5	16QAM	12	7	20.91	20.97	20.89	
5	16QAM	12	13	20.88	20.93	20.89	
5	16QAM	25	0	20.95	20.85	20.80	
5	64QAM	1	0	21.15	21.05	21.03	22.5
5	64QAM	1	12	21.18	21.09	21.25	
5	64QAM	1	24	21.01	20.99	20.95	
5	64QAM	12	0	19.95	19.95	19.84	21.5
5	64QAM	12	7	19.94	20.00	19.82	
5	64QAM	12	13	19.93	19.85	19.90	
5	64QAM	25	0	19.88	19.96	19.80	
5	256QAM	1	0	17.99	17.89	17.82	19.5
5	256QAM	1	12	17.88	17.90	17.87	
5	256QAM	1	24	17.89	17.95	17.87	
5	256QAM	12	0	17.83	17.91	17.88	19.5
5	256QAM	12	7	17.89	17.92	17.82	
5	256QAM	12	13	17.93	17.87	17.85	
5	256QAM	25	0	17.87	17.88	17.83	



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Channel				19965	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	22.79	22.81	22.74	24.5
3	QPSK	1	8	22.75	22.91	22.86	
3	QPSK	1	14	22.74	22.79	22.63	
3	QPSK	8	0	21.88	21.83	21.87	23.5
3	QPSK	8	4	21.89	21.91	21.96	
3	QPSK	8	7	21.83	21.79	21.84	
3	QPSK	15	0	21.91	21.91	21.93	23.5
3	16QAM	1	0	22.12	22.15	22.07	
3	16QAM	1	8	22.11	22.23	22.16	
3	16QAM	1	14	22.07	22.04	22.10	22.5
3	16QAM	8	0	20.81	20.87	20.78	
3	16QAM	8	4	20.83	20.84	20.90	
3	16QAM	8	7	20.90	20.94	20.93	22.5
3	16QAM	15	0	20.92	20.84	20.86	
3	64QAM	1	0	21.02	21.07	21.05	
3	64QAM	1	8	21.19	21.11	21.09	22.5
3	64QAM	1	14	20.98	20.95	20.84	
3	64QAM	8	0	19.88	19.86	19.75	21.5
3	64QAM	8	4	19.96	19.87	19.84	
3	64QAM	8	7	19.81	19.80	19.78	
3	64QAM	15	0	19.89	19.86	19.91	19.5
3	256QAM	1	0	17.96	17.83	17.82	
3	256QAM	1	8	17.80	17.83	17.83	
3	256QAM	1	14	17.90	17.86	17.85	19.5
3	256QAM	8	0	17.86	17.81	17.79	
3	256QAM	8	4	17.92	17.93	17.86	
3	256QAM	8	7	17.90	17.90	17.78	19.5
3	256QAM	15	0	17.88	17.78	17.82	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	22.89	22.91	22.96	24.5
1.4	QPSK	1	3	22.90	22.90	22.97	
1.4	QPSK	1	5	22.89	22.95	22.93	
1.4	QPSK	3	0	22.93	22.91	22.96	23.5
1.4	QPSK	3	1	22.91	22.91	22.96	
1.4	QPSK	3	3	22.91	22.96	22.94	
1.4	QPSK	6	0	21.95	21.96	21.98	23.5
1.4	16QAM	1	0	22.23	22.26	22.32	
1.4	16QAM	1	3	22.29	22.27	22.32	
1.4	16QAM	1	5	22.24	22.26	22.27	23.5
1.4	16QAM	3	0	22.06	22.05	22.13	
1.4	16QAM	3	1	22.07	22.07	22.08	
1.4	16QAM	3	3	22.07	22.06	22.06	22.5
1.4	16QAM	6	0	21.06	21.05	21.05	
1.4	64QAM	1	0	21.16	21.14	21.15	
1.4	64QAM	1	3	21.13	21.18	21.14	22.5
1.4	64QAM	1	5	21.17	21.09	21.14	
1.4	64QAM	3	0	21.05	21.10	21.14	
1.4	64QAM	3	1	21.14	21.13	21.15	21.5
1.4	64QAM	3	3	21.11	21.13	21.11	
1.4	64QAM	6	0	20.04	20.03	20.05	
1.4	256QAM	1	0	18.00	17.88	17.85	19.5
1.4	256QAM	1	3	17.86	17.86	17.86	
1.4	256QAM	1	5	17.93	17.92	17.90	
1.4	256QAM	3	0	17.90	17.84	17.85	19.5
1.4	256QAM	3	1	17.95	17.96	17.89	
1.4	256QAM	3	3	17.95	17.95	17.83	
1.4	256QAM	6	0	17.93	17.83	17.86	19.5



<LTE Band 4_Ant MIMO2_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	23.53	23.66	23.58	
20	QPSK	1	49	23.45	23.58	23.50	24.5
20	QPSK	1	99	23.36	23.49	23.41	
20	QPSK	50	0	22.47	22.59	22.51	
20	QPSK	50	24	22.56	22.68	22.60	23.5
20	QPSK	50	50	22.49	22.61	22.53	
20	QPSK	100	0	22.51	22.63	22.55	
20	16QAM	1	0	22.73	22.86	22.78	23.5
20	16QAM	1	49	22.62	22.74	22.66	
20	16QAM	1	99	22.52	22.64	22.56	
20	16QAM	50	0	21.42	21.54	21.47	22.5
20	16QAM	50	24	21.51	21.63	21.56	
20	16QAM	50	50	21.43	21.55	21.48	
20	16QAM	100	0	21.50	21.62	21.55	22.5
20	64QAM	1	0	21.63	21.75	21.68	
20	64QAM	1	49	21.54	21.66	21.59	
20	64QAM	1	99	21.37	21.49	21.42	21.5
20	64QAM	50	0	20.46	20.57	20.50	
20	64QAM	50	24	20.49	20.60	20.53	
20	64QAM	50	50	20.46	20.57	20.50	19.5
20	64QAM	100	0	20.48	20.59	20.52	
20	256QAM	1	0	18.69	18.82	18.73	
20	256QAM	1	49	18.70	18.85	18.77	19.5
20	256QAM	1	99	18.79	18.92	18.83	
20	256QAM	50	0	18.63	18.76	18.66	
20	256QAM	50	24	18.73	18.85	18.77	19.5
20	256QAM	50	50	18.60	18.75	18.68	
20	256QAM	100	0	18.67	18.80	18.72	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	23.47	23.64	23.52	
15	QPSK	1	37	23.42	23.49	23.45	24.5
15	QPSK	1	74	23.28	23.46	23.36	
15	QPSK	36	0	22.44	22.49	22.46	
15	QPSK	36	20	22.50	22.63	22.52	23.5
15	QPSK	36	39	22.41	22.51	22.43	
15	QPSK	75	0	22.47	22.57	22.52	
15	16QAM	1	0	22.63	22.82	22.75	23.5
15	16QAM	1	37	22.54	22.73	22.59	
15	16QAM	1	74	22.48	22.62	22.51	
15	16QAM	36	0	21.40	21.47	21.37	22.5
15	16QAM	36	20	21.49	21.58	21.47	
15	16QAM	36	39	21.34	21.47	21.45	
15	16QAM	75	0	21.46	21.58	21.53	22.5
15	64QAM	1	0	21.61	21.69	21.67	
15	64QAM	1	37	21.47	21.62	21.49	
15	64QAM	1	74	21.31	21.42	21.34	21.5
15	64QAM	36	0	20.42	20.47	20.44	
15	64QAM	36	20	20.39	20.52	20.46	
15	64QAM	36	39	20.42	20.48	20.41	19.5
15	64QAM	75	0	20.42	20.53	20.43	
15	256QAM	1	0	18.63	18.72	18.59	
15	256QAM	1	37	18.60	18.70	18.66	19.5
15	256QAM	1	74	18.67	18.84	18.69	
15	256QAM	36	0	18.49	18.65	18.51	
15	256QAM	36	20	18.61	18.77	18.72	19.5



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15	256QAM	36	39	18.54	18.62	18.54	Tune-up limit (dBm)
15	256QAM	75	0	18.52	18.68	18.64	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	23.46	23.64	23.56	24.5
10	QPSK	1	25	23.38	23.50	23.45	
10	QPSK	1	49	23.31	23.46	23.31	
10	QPSK	25	0	22.43	22.49	22.43	23.5
10	QPSK	25	12	22.47	22.67	22.53	
10	QPSK	25	25	22.41	22.59	22.50	
10	QPSK	50	0	22.41	22.61	22.47	
10	16QAM	1	0	22.72	22.78	22.76	23.5
10	16QAM	1	25	22.60	22.72	22.64	
10	16QAM	1	49	22.51	22.56	22.46	
10	16QAM	25	0	21.34	21.46	21.46	22.5
10	16QAM	25	12	21.42	21.57	21.53	
10	16QAM	25	25	21.40	21.49	21.43	
10	16QAM	50	0	21.41	21.54	21.46	
10	64QAM	1	0	21.62	21.68	21.64	22.5
10	64QAM	1	25	21.52	21.56	21.55	
10	64QAM	1	49	21.33	21.45	21.39	
10	64QAM	25	0	20.45	20.49	20.45	21.5
10	64QAM	25	12	20.47	20.53	20.51	
10	64QAM	25	25	20.41	20.48	20.41	
10	64QAM	50	0	20.44	20.54	20.51	
10	256QAM	1	0	18.64	18.73	18.65	19.5
10	256QAM	1	25	18.57	18.78	18.66	
10	256QAM	1	49	18.71	18.84	18.70	
10	256QAM	25	0	18.51	18.63	18.61	19.5
10	256QAM	25	12	18.65	18.76	18.72	
10	256QAM	25	25	18.54	18.66	18.55	
10	256QAM	50	0	18.60	18.66	18.59	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	23.50	23.65	23.51	24.5
5	QPSK	1	12	23.44	23.53	23.45	
5	QPSK	1	24	23.35	23.40	23.40	
5	QPSK	12	0	22.45	22.55	22.42	23.5
5	QPSK	12	7	22.48	22.63	22.56	
5	QPSK	12	13	22.39	22.56	22.47	
5	QPSK	25	0	22.43	22.62	22.53	
5	16QAM	1	0	22.65	22.76	22.68	23.5
5	16QAM	1	12	22.57	22.67	22.61	
5	16QAM	1	24	22.48	22.54	22.53	
5	16QAM	12	0	21.38	21.45	21.40	22.5
5	16QAM	12	7	21.46	21.56	21.47	
5	16QAM	12	13	21.37	21.51	21.46	
5	16QAM	25	0	21.47	21.55	21.51	
5	64QAM	1	0	21.56	21.67	21.66	22.5
5	64QAM	1	12	21.51	21.60	21.52	
5	64QAM	1	24	21.29	21.45	21.36	
5	64QAM	12	0	20.39	20.56	20.40	21.5
5	64QAM	12	7	20.40	20.54	20.47	
5	64QAM	12	13	20.41	20.51	20.40	
5	64QAM	25	0	20.43	20.54	20.47	
5	256QAM	1	0	18.56	18.71	18.67	19.5
5	256QAM	1	12	18.60	18.70	18.70	
5	256QAM	1	24	18.74	18.78	18.76	
5	256QAM	12	0	18.50	18.62	18.54	19.5
5	256QAM	12	7	18.60	18.76	18.65	
5	256QAM	12	13	18.46	18.63	18.57	
5	256QAM	25	0	18.54	18.74	18.67	
Channel				19965	20175	20385	Tune-up limit



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Frequency (MHz)				1711.5	1732.5	1753.5	(dBm)
3	QPSK	1	0	23.47	23.57	23.56	24.5
3	QPSK	1	8	23.39	23.51	23.44	
3	QPSK	1	14	23.28	23.43	23.32	
3	QPSK	8	0	22.38	22.51	22.42	23.5
3	QPSK	8	4	22.51	22.67	22.57	
3	QPSK	8	7	22.44	22.51	22.47	
3	QPSK	15	0	22.41	22.60	22.45	23.5
3	16QAM	1	0	22.66	22.83	22.76	
3	16QAM	1	8	22.53	22.68	22.65	
3	16QAM	1	14	22.45	22.57	22.47	22.5
3	16QAM	8	0	21.39	21.48	21.38	
3	16QAM	8	4	21.43	21.54	21.53	
3	16QAM	8	7	21.37	21.49	21.43	22.5
3	16QAM	15	0	21.41	21.61	21.53	
3	64QAM	1	0	21.53	21.73	21.63	
3	64QAM	1	8	21.45	21.63	21.58	21.5
3	64QAM	1	14	21.30	21.47	21.40	
3	64QAM	8	0	20.41	20.51	20.49	
3	64QAM	8	4	20.43	20.50	20.52	19.5
3	64QAM	8	7	20.45	20.55	20.44	
3	64QAM	15	0	20.41	20.49	20.45	
3	256QAM	1	0	18.63	18.73	18.58	19.5
3	256QAM	1	8	18.65	18.79	18.63	
3	256QAM	1	14	18.73	18.80	18.75	
3	256QAM	8	0	18.53	18.69	18.57	19.5
3	256QAM	8	4	18.61	18.72	18.70	
3	256QAM	8	7	18.47	18.68	18.60	
3	256QAM	15	0	18.57	18.68	18.61	Tune-up limit (dBm)
Channel				19957	20175	20393	
Frequency (MHz)				1710.7	1732.5	1754.3	24.5
1.4	QPSK	1	0	23.57	23.63	23.61	
1.4	QPSK	1	3	23.51	23.57	23.55	
1.4	QPSK	1	5	23.53	23.59	23.57	
1.4	QPSK	3	0	23.50	23.56	23.54	
1.4	QPSK	3	1	23.49	23.55	23.53	
1.4	QPSK	3	3	23.54	23.60	23.58	23.5
1.4	QPSK	6	0	22.55	22.61	22.59	
1.4	16QAM	1	0	22.72	22.78	22.76	23.5
1.4	16QAM	1	3	22.71	22.77	22.75	
1.4	16QAM	1	5	22.65	22.71	22.69	
1.4	16QAM	3	0	22.61	22.67	22.65	
1.4	16QAM	3	1	22.62	22.68	22.66	
1.4	16QAM	3	3	22.59	22.65	22.63	22.5
1.4	16QAM	6	0	21.48	21.53	21.51	
1.4	64QAM	1	0	21.68	21.74	21.72	22.5
1.4	64QAM	1	3	21.61	21.67	21.65	
1.4	64QAM	1	5	21.65	21.71	21.69	
1.4	64QAM	3	0	21.87	21.93	21.91	
1.4	64QAM	3	1	21.85	21.91	21.89	
1.4	64QAM	3	3	21.83	21.89	21.87	21.5
1.4	64QAM	6	0	20.69	20.74	20.72	
1.4	256QAM	1	0	18.80	18.88	18.83	19.5
1.4	256QAM	1	3	18.84	18.90	18.85	
1.4	256QAM	1	5	18.82	18.91	18.89	
1.4	256QAM	3	0	18.75	18.81	18.75	
1.4	256QAM	3	1	18.77	18.84	18.79	
1.4	256QAM	3	3	18.74	18.80	18.77	19.5
1.4	256QAM	6	0	18.77	18.83	18.79	

<LTE Band 5_Ant Main_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20450	20525	20600	
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	23.39	23.37	23.38	24.5
10	QPSK	1	25	23.36	23.34	23.37	
10	QPSK	1	49	23.35	23.34	23.34	
10	QPSK	25	0	22.42	22.40	22.42	23.5
10	QPSK	25	12	22.51	22.51	22.41	
10	QPSK	25	25	22.47	22.45	22.48	
10	QPSK	50	0	22.44	22.43	22.37	
10	16QAM	1	0	22.69	22.59	22.66	23.5
10	16QAM	1	25	22.65	22.63	22.64	
10	16QAM	1	49	22.69	22.60	22.67	
10	16QAM	25	0	21.46	21.46	21.46	22.5
10	16QAM	25	12	21.54	21.53	21.46	
10	16QAM	25	25	21.46	21.48	21.50	
10	16QAM	50	0	21.49	21.49	21.42	
10	64QAM	1	0	21.58	21.58	21.60	22.5
10	64QAM	1	25	21.65	21.64	21.53	
10	64QAM	1	49	21.60	21.47	21.66	
10	64QAM	25	0	20.41	20.45	20.42	21.5
10	64QAM	25	12	20.54	20.53	20.47	
10	64QAM	25	25	20.48	20.47	20.48	
10	64QAM	50	0	20.48	20.46	20.44	
10	256QAM	1	0	18.39	18.39	18.32	19.5
10	256QAM	1	25	18.63	18.65	18.63	
10	256QAM	1	49	18.32	18.34	18.32	
10	256QAM	25	0	18.42	18.42	18.39	19.5
10	256QAM	25	12	18.50	18.51	18.47	
10	256QAM	25	25	18.44	18.47	18.41	
10	256QAM	50	0	18.48	18.49	18.45	
Channel				20425	20525	20625	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	23.16	23.32	23.34	24.5
5	QPSK	1	12	23.20	23.23	23.28	
5	QPSK	1	24	23.15	23.25	23.15	
5	QPSK	12	0	22.30	22.24	22.38	23.5
5	QPSK	12	7	22.42	22.48	22.37	
5	QPSK	12	13	22.40	22.32	22.43	
5	QPSK	25	0	22.26	22.25	22.24	
5	16QAM	1	0	22.50	22.50	22.57	23.5
5	16QAM	1	12	22.56	22.64	22.61	
5	16QAM	1	24	22.56	22.41	22.64	
5	16QAM	12	0	21.26	21.36	21.26	22.5
5	16QAM	12	7	21.45	21.36	21.41	
5	16QAM	12	13	21.43	21.35	21.31	
5	16QAM	25	0	21.31	21.38	21.28	
5	64QAM	1	0	21.49	21.39	21.53	22.5
5	64QAM	1	12	21.59	21.49	21.42	
5	64QAM	1	24	21.44	21.40	21.62	
5	64QAM	12	0	20.38	20.40	20.34	21.5
5	64QAM	12	7	20.39	20.49	20.29	
5	64QAM	12	13	20.33	20.38	20.45	
5	64QAM	25	0	20.33	20.35	20.33	
5	256QAM	1	0	18.27	18.22	18.16	19.5
5	256QAM	1	12	18.49	18.47	18.46	
5	256QAM	1	24	18.14	18.19	18.12	
5	256QAM	12	0	18.27	18.24	18.28	19.5



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5	256QAM	12	7	18.40	18.32	18.35	
5	256QAM	12	13	18.32	18.32	18.30	
5	256QAM	25	0	18.36	18.31	18.30	
Channel				20415	20525	20635	Tune-up limit (dBm)
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	23.30	23.29	23.28	24.5
3	QPSK	1	8	23.25	23.14	23.29	
3	QPSK	1	14	23.27	23.16	23.18	
3	QPSK	8	0	22.26	22.36	22.29	23.5
3	QPSK	8	4	22.45	22.33	22.21	
3	QPSK	8	7	22.31	22.25	22.40	
3	QPSK	15	0	22.29	22.33	22.33	23.5
3	16QAM	1	0	22.56	22.55	22.58	
3	16QAM	1	8	22.57	22.58	22.67	
3	16QAM	1	14	22.60	22.56	22.68	22.5
3	16QAM	8	0	21.27	21.30	21.34	
3	16QAM	8	4	21.51	21.41	21.39	
3	16QAM	8	7	21.29	21.45	21.41	22.5
3	16QAM	15	0	21.37	21.33	21.38	
3	64QAM	1	0	21.52	21.43	21.57	
3	64QAM	1	8	21.48	21.58	21.42	21.5
3	64QAM	1	14	21.57	21.42	21.47	
3	64QAM	8	0	20.26	20.26	20.25	
3	64QAM	8	4	20.39	20.37	20.37	19.5
3	64QAM	8	7	20.28	20.28	20.35	
3	64QAM	15	0	20.41	20.32	20.28	
3	256QAM	1	0	18.20	18.27	18.21	19.5
3	256QAM	1	8	18.52	18.53	18.51	
3	256QAM	1	14	18.16	18.15	18.13	
3	256QAM	8	0	18.29	18.30	18.19	19.5
3	256QAM	8	4	18.36	18.35	18.32	
3	256QAM	8	7	18.29	18.30	18.25	
3	256QAM	15	0	18.31	18.30	18.32	Tune-up limit (dBm)
Channel				20407	20525	20643	
Frequency (MHz)				824.7	836.5	848.3	Tune-up limit (dBm)
1.4	QPSK	1	0	23.36	23.29	23.31	
1.4	QPSK	1	3	23.37	23.32	23.36	24.5
1.4	QPSK	1	5	23.30	23.26	23.30	
1.4	QPSK	3	0	23.34	23.29	23.33	
1.4	QPSK	3	1	23.34	23.35	23.34	23.5
1.4	QPSK	3	3	23.32	23.29	23.32	
1.4	QPSK	6	0	22.41	22.37	22.39	
1.4	16QAM	1	0	22.70	22.60	22.66	23.5
1.4	16QAM	1	3	22.70	22.68	22.64	
1.4	16QAM	1	5	22.65	22.58	22.64	
1.4	16QAM	3	0	22.49	22.43	22.48	22.5
1.4	16QAM	3	1	22.50	22.49	22.45	
1.4	16QAM	3	3	22.44	22.42	22.49	
1.4	16QAM	6	0	21.45	21.46	21.47	22.5
1.4	64QAM	1	0	21.58	21.50	21.60	
1.4	64QAM	1	3	21.61	21.65	21.62	
1.4	64QAM	1	5	21.57	21.49	21.57	21.5
1.4	64QAM	3	0	21.48	21.45	21.50	
1.4	64QAM	3	1	21.52	21.55	21.57	
1.4	64QAM	3	3	21.51	21.49	21.50	19.5
1.4	64QAM	6	0	20.48	20.43	20.48	
1.4	256QAM	1	0	18.23	18.20	18.16	
1.4	256QAM	1	3	18.50	18.51	18.53	19.5
1.4	256QAM	1	5	18.12	18.19	18.12	
1.4	256QAM	3	0	18.31	18.23	18.28	
1.4	256QAM	3	1	18.40	18.35	18.34	19.5
1.4	256QAM	3	3	18.24	18.30	18.30	
1.4	256QAM	6	0	18.36	18.39	18.26	19.5

**<LTE Band 7_Ant Main_Sensor OFF>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	22.66	22.87	22.98	24.5
20	QPSK	1	49	22.84	22.98	23.07	
20	QPSK	1	99	22.70	22.96	23.00	
20	QPSK	50	0	21.71	21.95	21.96	23.5
20	QPSK	50	24	21.86	22.05	22.09	
20	QPSK	50	50	21.84	21.98	21.99	
20	QPSK	100	0	21.82	21.95	21.96	
20	16QAM	1	0	21.96	22.17	22.16	23.5
20	16QAM	1	49	22.02	22.23	22.34	
20	16QAM	1	99	22.20	22.34	22.36	
20	16QAM	50	0	20.73	21.00	20.99	22.5
20	16QAM	50	24	20.89	21.01	21.03	
20	16QAM	50	50	20.90	21.07	21.13	
20	16QAM	100	0	20.85	20.99	21.02	
20	64QAM	1	0	20.85	21.16	21.09	22.5
20	64QAM	1	49	21.07	21.29	21.29	
20	64QAM	1	99	21.12	21.27	21.26	
20	64QAM	50	0	19.74	20.00	20.00	21.5
20	64QAM	50	24	19.89	20.07	20.06	
20	64QAM	50	50	19.92	20.11	20.15	
20	64QAM	100	0	19.84	20.02	20.03	
20	256QAM	1	0	17.57	17.78	17.77	19.5
20	256QAM	1	49	17.68	17.88	17.85	
20	256QAM	1	99	17.76	17.96	17.95	
20	256QAM	50	0	17.51	17.73	17.73	19.5
20	256QAM	50	24	17.56	17.74	17.71	
20	256QAM	50	50	17.64	17.85	17.85	
20	256QAM	100	0	17.54	17.77	17.76	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	22.69	22.86	22.95	24.5
15	QPSK	1	37	22.80	23.03	22.99	
15	QPSK	1	74	22.77	22.98	23.04	
15	QPSK	36	0	21.74	21.99	21.99	23.5
15	QPSK	36	20	21.86	22.02	22.03	
15	QPSK	36	39	21.86	22.10	22.11	
15	QPSK	75	0	21.82	22.00	22.01	
15	16QAM	1	0	22.01	22.25	22.17	23.5
15	16QAM	1	37	22.02	22.29	22.28	
15	16QAM	1	74	22.07	22.33	22.31	
15	16QAM	36	0	20.78	21.02	21.03	22.5
15	16QAM	36	20	20.90	21.03	21.08	
15	16QAM	36	39	20.90	21.10	21.15	
15	16QAM	75	0	20.83	21.01	21.04	
15	64QAM	1	0	20.99	21.14	21.11	22.5
15	64QAM	1	37	20.98	21.22	21.31	
15	64QAM	1	74	21.08	21.30	21.33	
15	64QAM	36	0	19.78	20.02	20.04	21.5
15	64QAM	36	20	19.90	20.05	20.06	
15	64QAM	36	39	19.88	20.13	20.14	
15	64QAM	75	0	19.88	20.01	20.05	
15	256QAM	1	0	17.60	17.69	17.64	19.5
15	256QAM	1	37	17.64	17.75	17.78	
15	256QAM	1	74	17.81	17.82	17.87	
15	256QAM	36	0	17.51	17.67	17.65	19.5



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15	256QAM	36	20	17.52	17.60	17.62	
15	256QAM	36	39	17.69	17.77	17.70	
15	256QAM	75	0	17.58	17.67	17.69	
Channel				20800	21100	21400	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	22.57	22.66	22.80	24.5
10	QPSK	1	25	22.60	22.97	22.89	
10	QPSK	1	49	22.74	22.82	22.98	
10	QPSK	25	0	21.67	21.92	21.82	23.5
10	QPSK	25	12	21.71	21.86	21.96	
10	QPSK	25	25	21.77	21.95	21.91	
10	QPSK	50	0	21.76	21.80	21.87	23.5
10	16QAM	1	0	21.83	22.22	22.05	
10	16QAM	1	25	21.87	22.18	22.08	
10	16QAM	1	49	21.93	22.17	22.12	22.5
10	16QAM	25	0	20.62	20.92	20.99	
10	16QAM	25	12	20.82	20.94	20.88	
10	16QAM	25	25	20.83	20.99	20.99	22.5
10	16QAM	50	0	20.78	20.90	20.89	
10	64QAM	1	0	20.85	20.98	21.00	
10	64QAM	1	25	20.80	21.06	21.18	21.5
10	64QAM	1	49	20.98	21.22	21.17	
10	64QAM	25	0	19.59	19.91	19.93	
10	64QAM	25	12	19.78	20.02	19.92	19.5
10	64QAM	25	25	19.78	19.97	20.10	
10	64QAM	50	0	19.72	19.91	19.89	
10	256QAM	1	0	17.61	17.65	17.71	19.5
10	256QAM	1	25	17.65	17.74	17.72	
10	256QAM	1	49	17.71	17.86	17.85	
10	256QAM	25	0	17.52	17.64	17.65	19.5
10	256QAM	25	12	17.55	17.59	17.57	
10	256QAM	25	25	17.64	17.72	17.78	
10	256QAM	50	0	17.52	17.62	17.65	Tune-up limit (dBm)
Channel				20775	21100	21425	
Frequency (MHz)				2502.5	2535	2567.5	24.5
5	QPSK	1	0	22.56	22.82	22.86	
5	QPSK	1	12	22.69	22.91	22.81	
5	QPSK	1	24	22.57	22.86	22.95	23.5
5	QPSK	12	0	21.60	21.81	21.84	
5	QPSK	12	7	21.76	21.84	21.89	
5	QPSK	12	13	21.79	21.91	22.00	23.5
5	QPSK	25	0	21.62	21.93	21.98	
5	16QAM	1	0	21.82	22.15	21.98	
5	16QAM	1	12	21.90	22.25	22.24	22.5
5	16QAM	1	24	22.01	22.18	22.17	
5	16QAM	12	0	20.62	20.89	20.94	
5	16QAM	12	7	20.82	20.85	20.90	22.5
5	16QAM	12	13	20.83	20.98	20.96	
5	16QAM	25	0	20.65	20.84	20.96	
5	64QAM	1	0	20.93	21.10	21.01	21.5
5	64QAM	1	12	20.86	21.11	21.25	
5	64QAM	1	24	20.94	21.27	21.18	
5	64QAM	12	0	19.61	19.87	19.98	19.5
5	64QAM	12	7	19.81	19.99	20.00	
5	64QAM	12	13	19.76	19.97	20.06	
5	64QAM	25	0	19.80	19.87	19.98	19.5
5	256QAM	1	0	17.61	17.69	17.67	
5	256QAM	1	12	17.68	17.74	17.79	
5	256QAM	1	24	17.79	17.86	17.88	19.5
5	256QAM	12	0	17.50	17.66	17.62	
5	256QAM	12	7	17.60	17.63	17.65	
5	256QAM	12	13	17.67	17.75	17.71	19.5
5	256QAM	25	0	17.56	17.70	17.65	



<LTE Band 7_Ant MIMO2_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	23.71	23.87	23.76	
20	QPSK	1	49	23.62	23.78	23.67	24.5
20	QPSK	1	99	23.58	23.74	23.63	
20	QPSK	50	0	22.66	22.81	22.70	
20	QPSK	50	24	22.69	22.84	22.73	23.5
20	QPSK	50	50	22.68	22.83	22.72	
20	QPSK	100	0	22.59	22.74	22.64	
20	16QAM	1	0	22.87	23.02	22.91	23.5
20	16QAM	1	49	22.86	23.01	22.90	
20	16QAM	1	99	22.77	22.92	22.81	
20	16QAM	50	0	21.59	21.74	21.64	22.5
20	16QAM	50	24	21.62	21.77	21.67	
20	16QAM	50	50	21.61	21.76	21.66	
20	16QAM	100	0	21.62	21.77	21.67	22.5
20	64QAM	1	0	21.74	21.89	21.79	
20	64QAM	1	49	21.74	21.89	21.79	
20	64QAM	1	99	21.67	21.82	21.72	21.5
20	64QAM	50	0	20.61	20.75	20.65	
20	64QAM	50	24	20.60	20.74	20.64	
20	64QAM	50	50	20.65	20.79	20.69	19.5
20	64QAM	100	0	20.59	20.73	20.63	
20	256QAM	1	0	18.25	18.44	18.33	
20	256QAM	1	49	18.39	18.54	18.41	19.5
20	256QAM	1	99	18.50	18.66	18.52	
20	256QAM	50	0	18.27	18.44	18.34	
20	256QAM	50	24	18.24	18.43	18.29	19.5
20	256QAM	50	50	18.36	18.55	18.41	
20	256QAM	100	0	18.30	18.47	18.34	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	23.62	23.78	23.73	
15	QPSK	1	37	23.56	23.70	23.61	24.5
15	QPSK	1	74	23.49	23.64	23.59	
15	QPSK	36	0	22.59	22.75	22.64	
15	QPSK	36	20	22.67	22.79	22.67	23.5
15	QPSK	36	39	22.63	22.75	22.65	
15	QPSK	75	0	22.57	22.68	22.61	
15	16QAM	1	0	22.80	22.99	22.89	23.5
15	16QAM	1	37	22.81	22.98	22.81	
15	16QAM	1	74	22.71	22.82	22.76	
15	16QAM	36	0	21.51	21.66	21.59	22.5
15	16QAM	36	20	21.60	21.67	21.65	
15	16QAM	36	39	21.52	21.73	21.64	
15	16QAM	75	0	21.52	21.72	21.57	22.5
15	64QAM	1	0	21.64	21.83	21.70	
15	64QAM	1	37	21.67	21.84	21.70	
15	64QAM	1	74	21.59	21.75	21.69	21.5
15	64QAM	36	0	20.53	20.72	20.62	
15	64QAM	36	20	20.54	20.69	20.56	
15	64QAM	36	39	20.60	20.77	20.63	19.5
15	64QAM	75	0	20.57	20.70	20.58	
15	256QAM	1	0	18.11	18.34	18.22	
15	256QAM	1	37	18.32	18.49	18.30	19.5
15	256QAM	1	74	18.42	18.60	18.43	
15	256QAM	36	0	18.14	18.33	18.27	



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15	256QAM	36	20	18.11	18.34	18.21	
15	256QAM	36	39	18.23	18.46	18.26	
15	256QAM	75	0	18.15	18.36	18.26	
Channel				20800	21100	21400	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	23.68	23.79	23.69	24.5
10	QPSK	1	25	23.52	23.72	23.60	
10	QPSK	1	49	23.51	23.69	23.54	
10	QPSK	25	0	22.63	22.71	22.65	23.5
10	QPSK	25	12	22.63	22.75	22.65	
10	QPSK	25	25	22.58	22.73	22.65	
10	QPSK	50	0	22.52	22.67	22.55	
10	16QAM	1	0	22.81	22.97	22.82	23.5
10	16QAM	1	25	22.77	22.95	22.85	
10	16QAM	1	49	22.71	22.84	22.74	
10	16QAM	25	0	21.53	21.71	21.58	22.5
10	16QAM	25	12	21.55	21.67	21.62	
10	16QAM	25	25	21.57	21.69	21.59	
10	16QAM	50	0	21.59	21.74	21.65	
10	64QAM	1	0	21.71	21.79	21.74	22.5
10	64QAM	1	25	21.69	21.81	21.76	
10	64QAM	1	49	21.62	21.73	21.64	
10	64QAM	25	0	20.54	20.66	20.55	21.5
10	64QAM	25	12	20.53	20.67	20.57	
10	64QAM	25	25	20.59	20.69	20.63	
10	64QAM	50	0	20.51	20.63	20.53	
10	256QAM	1	0	18.18	18.29	18.20	19.5
10	256QAM	1	25	18.28	18.49	18.28	
10	256QAM	1	49	18.38	18.57	18.38	
10	256QAM	25	0	18.14	18.34	18.23	19.5
10	256QAM	25	12	18.13	18.38	18.23	
10	256QAM	25	25	18.25	18.40	18.35	
10	256QAM	50	0	18.24	18.35	18.22	
Channel				20775	21100	21425	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	23.69	23.79	23.67	24.5
5	QPSK	1	12	23.54	23.72	23.60	
5	QPSK	1	24	23.49	23.72	23.58	
5	QPSK	12	0	22.57	22.76	22.61	23.5
5	QPSK	12	7	22.62	22.76	22.67	
5	QPSK	12	13	22.63	22.80	22.68	
5	QPSK	25	0	22.53	22.68	22.57	
5	16QAM	1	0	22.81	22.92	22.85	23.5
5	16QAM	1	12	22.77	22.98	22.86	
5	16QAM	1	24	22.69	22.90	22.77	
5	16QAM	12	0	21.51	21.71	21.60	22.5
5	16QAM	12	7	21.53	21.75	21.63	
5	16QAM	12	13	21.52	21.73	21.58	
5	16QAM	25	0	21.55	21.74	21.64	
5	64QAM	1	0	21.68	21.84	21.70	22.5
5	64QAM	1	12	21.66	21.86	21.72	
5	64QAM	1	24	21.64	21.72	21.66	
5	64QAM	12	0	20.51	20.65	20.59	21.5
5	64QAM	12	7	20.51	20.65	20.58	
5	64QAM	12	13	20.60	20.75	20.61	
5	64QAM	25	0	20.56	20.69	20.58	
5	256QAM	1	0	18.13	18.33	18.18	19.5
5	256QAM	1	12	18.26	18.45	18.33	
5	256QAM	1	24	18.42	18.53	18.42	
5	256QAM	12	0	18.13	18.33	18.26	19.5
5	256QAM	12	7	18.12	18.35	18.17	
5	256QAM	12	13	18.28	18.44	18.27	
5	256QAM	25	0	18.25	18.41	18.27	

**<LTE Band 12_Ant Main_Sensor OFF>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				23060	23095	23130	
Frequency (MHz)				704	707.5	711	
10	QPSK	1	0	23.52	23.39	23.45	24.5
10	QPSK	1	25	23.55	23.48	23.46	
10	QPSK	1	49	23.52	23.47	23.43	
10	QPSK	25	0	22.45	22.47	22.43	23.5
10	QPSK	25	12	22.60	22.59	22.54	
10	QPSK	25	25	22.58	22.56	22.53	
10	QPSK	50	0	22.52	22.49	22.50	
10	16QAM	1	0	22.68	22.69	22.81	23.5
10	16QAM	1	25	22.87	22.81	22.81	
10	16QAM	1	49	22.81	22.79	22.74	
10	16QAM	25	0	21.49	21.52	21.45	22.5
10	16QAM	25	12	21.60	21.56	21.60	
10	16QAM	25	25	21.60	21.60	21.54	
10	16QAM	50	0	21.58	21.49	21.53	
10	64QAM	1	0	21.66	21.52	21.68	22.5
10	64QAM	1	25	21.71	21.72	21.70	
10	64QAM	1	49	21.74	21.71	21.68	
10	64QAM	25	0	20.50	20.51	20.46	21.5
10	64QAM	25	12	20.61	20.55	20.58	
10	64QAM	25	25	20.60	20.62	20.54	
10	64QAM	50	0	20.57	20.53	20.53	
10	256QAM	1	0	18.45	18.43	18.42	19.5
10	256QAM	1	25	18.56	18.56	18.55	
10	256QAM	1	49	18.43	18.40	18.37	
10	256QAM	25	0	18.44	18.41	18.38	19.5
10	256QAM	25	12	18.40	18.37	18.34	
10	256QAM	25	25	18.47	18.44	18.44	
10	256QAM	50	0	18.32	18.33	18.29	
Channel				23035	23095	23155	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	23.48	23.27	23.40	24.5
5	QPSK	1	12	23.44	23.32	23.37	
5	QPSK	1	24	23.44	23.42	23.38	
5	QPSK	12	0	22.27	22.37	22.23	23.5
5	QPSK	12	7	22.49	22.53	22.44	
5	QPSK	12	13	22.54	22.47	22.47	
5	QPSK	25	0	22.35	22.37	22.33	
5	16QAM	1	0	22.63	22.65	22.77	23.5
5	16QAM	1	12	22.79	22.68	22.66	
5	16QAM	1	24	22.77	22.71	22.61	
5	16QAM	12	0	21.32	21.32	21.30	22.5
5	16QAM	12	7	21.48	21.44	21.46	
5	16QAM	12	13	21.47	21.52	21.45	
5	16QAM	25	0	21.53	21.39	21.43	
5	64QAM	1	0	21.52	21.40	21.56	22.5
5	64QAM	1	12	21.62	21.52	21.57	
5	64QAM	1	24	21.60	21.62	21.51	
5	64QAM	12	0	20.35	20.33	20.30	21.5
5	64QAM	12	7	20.49	20.50	20.50	
5	64QAM	12	13	20.45	20.46	20.35	
5	64QAM	25	0	20.52	20.44	20.38	
5	256QAM	1	0	18.29	18.27	18.26	19.5
5	256QAM	1	12	18.38	18.45	18.42	
5	256QAM	1	24	18.24	18.26	18.17	
5	256QAM	12	0	18.28	18.22	18.22	19.5



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5	256QAM	12	7	18.25	18.27	18.20	
5	256QAM	12	13	18.35	18.31	18.25	
5	256QAM	25	0	18.17	18.22	18.16	
Channel				23025	23095	23165	Tune-up limit (dBm)
Frequency (MHz)				700.5	707.5	714.5	
3	QPSK	1	0	23.40	23.19	23.26	24.5
3	QPSK	1	8	23.31	23.23	23.25	
3	QPSK	1	14	23.38	23.37	23.28	
3	QPSK	8	0	22.15	22.31	22.13	23.5
3	QPSK	8	4	22.42	22.43	22.37	
3	QPSK	8	7	22.47	22.39	22.39	
3	QPSK	15	0	22.27	22.29	22.20	23.5
3	16QAM	1	0	22.58	22.55	22.71	
3	16QAM	1	8	22.68	22.54	22.52	
3	16QAM	1	14	22.72	22.56	22.53	22.5
3	16QAM	8	0	21.20	21.17	21.21	
3	16QAM	8	4	21.33	21.32	21.36	
3	16QAM	8	7	21.32	21.37	21.32	22.5
3	16QAM	15	0	21.47	21.28	21.28	
3	64QAM	1	0	21.38	21.27	21.48	
3	64QAM	1	8	21.48	21.45	21.45	21.5
3	64QAM	1	14	21.55	21.48	21.37	
3	64QAM	8	0	20.27	20.20	20.18	
3	64QAM	8	4	20.41	20.35	20.39	19.5
3	64QAM	8	7	20.33	20.36	20.21	
3	64QAM	15	0	20.43	20.38	20.33	
3	256QAM	1	0	18.33	18.23	18.25	19.5
3	256QAM	1	8	18.44	18.45	18.35	
3	256QAM	1	14	18.24	18.27	18.27	
3	256QAM	8	0	18.25	18.27	18.22	19.5
3	256QAM	8	4	18.27	18.17	18.15	
3	256QAM	8	7	18.31	18.29	18.30	
3	256QAM	15	0	18.16	18.19	18.14	Tune-up limit (dBm)
Channel				23017	23095	23173	
Frequency (MHz)				699.7	707.5	715.3	Tune-up limit (dBm)
1.4	QPSK	1	0	23.38	23.40	23.33	
1.4	QPSK	1	3	23.45	23.48	23.37	24.5
1.4	QPSK	1	5	23.39	23.43	23.35	
1.4	QPSK	3	0	23.41	23.44	23.36	
1.4	QPSK	3	1	23.41	23.47	23.35	23.5
1.4	QPSK	3	3	23.41	23.49	23.35	
1.4	QPSK	6	0	22.45	22.41	22.39	
1.4	16QAM	1	0	22.71	22.74	22.73	23.5
1.4	16QAM	1	3	22.78	22.83	22.65	
1.4	16QAM	1	5	22.74	22.76	22.62	
1.4	16QAM	3	0	22.55	22.62	22.48	22.5
1.4	16QAM	3	1	22.59	22.60	22.50	
1.4	16QAM	3	3	22.57	22.60	22.50	
1.4	16QAM	6	0	21.52	21.48	21.47	22.5
1.4	64QAM	1	0	21.67	21.66	21.60	
1.4	64QAM	1	3	21.69	21.78	21.62	
1.4	64QAM	1	5	21.68	21.76	21.58	21.5
1.4	64QAM	3	0	21.59	21.65	21.51	
1.4	64QAM	3	1	21.61	21.59	21.50	
1.4	64QAM	3	3	21.59	21.66	21.55	19.5
1.4	64QAM	6	0	20.53	20.49	20.45	
1.4	256QAM	1	0	18.33	18.29	18.28	
1.4	256QAM	1	3	18.44	18.46	18.35	19.5
1.4	256QAM	1	5	18.27	18.23	18.25	
1.4	256QAM	3	0	18.30	18.25	18.22	
1.4	256QAM	3	1	18.30	18.27	18.23	19.5
1.4	256QAM	3	3	18.32	18.33	18.32	
1.4	256QAM	6	0	18.13	18.21	18.16	19.5



<LTE Band 13_Ant Main_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				23230			
Frequency (MHz)				782			
10	QPSK	1	0		23.56		24.5
10	QPSK	1	25		23.58		
10	QPSK	1	49		23.49		
10	QPSK	25	0		22.58		23.5
10	QPSK	25	12		22.60		
10	QPSK	25	25		22.57		
10	QPSK	50	0		22.56		23.5
10	16QAM	1	0		22.84		
10	16QAM	1	25		22.80		
10	16QAM	1	49		22.75		22.5
10	16QAM	25	0		21.63		
10	16QAM	25	12		21.60		
10	16QAM	25	25		21.63		22.5
10	16QAM	50	0		21.58		
10	64QAM	1	0		21.76		
10	64QAM	1	25		21.88		22.5
10	64QAM	1	49		21.68		
10	64QAM	25	0		20.57		
10	64QAM	25	12		20.61		21.5
10	64QAM	25	25		20.59		
10	64QAM	50	0		20.58		
10	256QAM	1	0		18.45		19.5
10	256QAM	1	25		18.63		
10	256QAM	1	49		18.53		
10	256QAM	25	0		18.42		19.5
10	256QAM	25	12		18.49		
10	256QAM	25	25		18.51		
10	256QAM	50	0		18.48		
Channel				23205	23230	23255	Tune-up limit (dBm)
Frequency (MHz)				779.5	782	784.5	
5	QPSK	1	0	23.47	23.44	23.42	24.5
5	QPSK	1	12	23.40	23.52	23.55	
5	QPSK	1	24	23.33	23.36	23.35	
5	QPSK	12	0	22.45	22.50	22.42	23.5
5	QPSK	12	7	22.49	22.44	22.55	
5	QPSK	12	13	22.51	22.56	22.42	
5	QPSK	25	0	22.40	22.47	22.39	23.5
5	16QAM	1	0	22.72	22.81	22.71	
5	16QAM	1	12	22.63	22.76	22.69	
5	16QAM	1	24	22.64	22.66	22.61	22.5
5	16QAM	12	0	21.47	21.55	21.47	
5	16QAM	12	7	21.55	21.49	21.43	
5	16QAM	12	13	21.53	21.52	21.46	22.5
5	16QAM	25	0	21.48	21.40	21.51	
5	64QAM	1	0	21.71	21.62	21.69	
5	64QAM	1	12	21.76	21.80	21.78	22.5
5	64QAM	1	24	21.54	21.63	21.65	
5	64QAM	12	0	20.39	20.52	20.53	
5	64QAM	12	7	20.58	20.55	20.54	21.5
5	64QAM	12	13	20.53	20.44	20.55	
5	64QAM	25	0	20.42	20.43	20.43	
5	256QAM	1	0	18.29	18.33	18.19	19.5
5	256QAM	1	12	18.53	18.58	18.48	
5	256QAM	1	24	18.13	18.46	18.18	
5	256QAM	12	0	18.26	18.30	18.25	19.5



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5	256QAM	12	7	18.35	18.41	18.34	
5	256QAM	12	13	18.31	18.47	18.29	
5	256QAM	25	0	18.37	18.45	18.31	

<LTE Band 14_Ant Main_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				23330			
Frequency (MHz)				793			
10	QPSK	1	0		23.36		24.5
10	QPSK	1	25		23.39		
10	QPSK	1	49		23.29		
10	QPSK	25	0		22.44		23.5
10	QPSK	25	12		22.48		
10	QPSK	25	25		22.41		
10	QPSK	50	0		22.43		23.5
10	16QAM	1	0		22.72		
10	16QAM	1	25		22.66		
10	16QAM	1	49		22.60		22.5
10	16QAM	25	0		21.47		
10	16QAM	25	12		21.52		
10	16QAM	25	25		21.48		22.5
10	16QAM	50	0		21.48		
10	64QAM	1	0		21.58		
10	64QAM	1	25		21.62		22.5
10	64QAM	1	49		21.51		
10	64QAM	25	0		20.47		
10	64QAM	25	12		20.55		21.5
10	64QAM	25	25		20.44		
10	64QAM	50	0		20.38		
10	256QAM	1	0		18.20		19.5
10	256QAM	1	25		18.53		
10	256QAM	1	49		18.40		
10	256QAM	25	0		18.25		19.5
10	256QAM	25	12		18.32		
10	256QAM	25	25		18.35		
10	256QAM	50	0		18.36		
Channel				23305	23330	23355	Tune-up limit (dBm)
Frequency (MHz)				790.5	793	795.5	
5	QPSK	1	0	23.27	23.29	23.33	24.5
5	QPSK	1	12	23.30	23.32	23.24	
5	QPSK	1	24	23.19	23.22	23.24	
5	QPSK	12	0	22.37	22.35	22.35	23.5
5	QPSK	12	7	22.34	22.42	22.44	
5	QPSK	12	13	22.23	22.23	22.28	
5	QPSK	25	0	22.28	22.36	22.32	23.5
5	16QAM	1	0	22.60	22.66	22.64	
5	16QAM	1	12	22.48	22.52	22.56	
5	16QAM	1	24	22.44	22.50	22.57	22.5
5	16QAM	12	0	21.29	21.37	21.37	
5	16QAM	12	7	21.42	21.49	21.40	
5	16QAM	12	13	21.42	21.40	21.36	22.5
5	16QAM	25	0	21.44	21.36	21.34	
5	64QAM	1	0	21.49	21.41	21.43	
5	64QAM	1	12	21.53	21.50	21.44	22.5
5	64QAM	1	24	21.44	21.42	21.39	
5	64QAM	12	0	20.44	20.36	20.35	
5	64QAM	12	7	20.48	20.39	20.49	21.5
5	64QAM	12	13	20.38	20.41	20.31	
5	64QAM	25	0	20.22	20.31	20.25	
5	256QAM	1	0	18.19	18.25	18.16	19.5



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5	256QAM	1	12	18.43	18.46	18.43	19.5
5	256QAM	1	24	18.20	18.23	18.18	
5	256QAM	12	0	18.29	18.31	18.27	
5	256QAM	12	7	18.33	18.41	18.29	
5	256QAM	12	13	18.26	18.34	18.31	
5	256QAM	25	0	18.29	18.36	18.32	

<LTE Band 17_Ant Main_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				23780	23790	23800	
Frequency (MHz)				709	710	711	
10	QPSK	1	0	23.32	23.37	23.44	24.5
10	QPSK	1	25	23.51	23.48	23.47	
10	QPSK	1	49	23.42	23.41	23.44	
10	QPSK	25	0	22.46	22.46	22.45	23.5
10	QPSK	25	12	22.62	22.59	22.57	
10	QPSK	25	25	22.60	22.51	22.49	
10	QPSK	50	0	22.48	22.46	22.47	23.5
10	16QAM	1	0	22.64	22.62	22.65	
10	16QAM	1	25	22.74	22.75	22.70	
10	16QAM	1	49	22.69	22.73	22.73	22.5
10	16QAM	25	0	21.51	21.49	21.51	
10	16QAM	25	12	21.62	21.55	21.54	
10	16QAM	25	25	21.59	21.62	21.59	22.5
10	16QAM	50	0	21.48	21.52	21.50	
10	64QAM	1	0	21.53	21.58	21.56	
10	64QAM	1	25	21.63	21.73	21.70	22.5
10	64QAM	1	49	21.64	21.67	21.67	
10	64QAM	25	0	20.50	20.48	20.50	
10	64QAM	25	12	20.58	20.57	20.54	21.5
10	64QAM	25	25	20.62	20.59	20.62	
10	64QAM	50	0	20.50	20.52	20.50	
10	256QAM	1	0	18.30	18.30	18.37	19.5
10	256QAM	1	25	18.41	18.42	18.41	
10	256QAM	1	49	18.37	18.32	18.22	
10	256QAM	25	0	18.32	18.34	18.26	19.5
10	256QAM	25	12	18.26	18.30	18.22	
10	256QAM	25	25	18.40	18.29	18.36	
10	256QAM	50	0	18.23	18.20	18.19	Tune-up limit (dBm)
Channel				23755	23790	23825	
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	23.24	23.22	23.35	24.5
5	QPSK	1	12	23.37	23.31	23.29	
5	QPSK	1	24	23.25	23.30	23.30	
5	QPSK	12	0	22.28	22.31	22.28	23.5
5	QPSK	12	7	22.54	22.46	22.41	
5	QPSK	12	13	22.48	22.44	22.52	
5	QPSK	25	0	22.36	22.32	22.29	23.5
5	16QAM	1	0	22.58	22.46	22.60	
5	16QAM	1	12	22.71	22.62	22.61	
5	16QAM	1	24	22.51	22.61	22.65	22.5
5	16QAM	12	0	21.41	21.43	21.38	
5	16QAM	12	7	21.44	21.49	21.43	
5	16QAM	12	13	21.45	21.46	21.51	22.5
5	16QAM	25	0	21.35	21.44	21.32	
5	64QAM	1	0	21.43	21.42	21.38	
5	64QAM	1	12	21.60	21.65	21.59	22.5
5	64QAM	1	24	21.57	21.49	21.62	
5	64QAM	12	0	20.34	20.45	20.39	
5	64QAM	12	7	20.46	20.50	20.50	21.5



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5	64QAM	12	13	20.53	20.56	20.44	19.5
5	64QAM	25	0	20.40	20.35	20.33	
5	256QAM	1	0	18.32	18.33	18.28	
5	256QAM	1	12	18.41	18.44	18.50	
5	256QAM	1	24	18.38	18.33	18.26	
5	256QAM	12	0	18.38	18.29	18.33	19.5
5	256QAM	12	7	18.29	18.24	18.20	
5	256QAM	12	13	18.41	18.37	18.33	
5	256QAM	25	0	18.20	18.22	18.21	

<LTE Band 25_Ant Main_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				26140	26340	26590	
Frequency (MHz)				1860	1880	1905	
20	QPSK	1	0	23.03	22.89	22.99	24.5
20	QPSK	1	49	23.04	22.91	23.07	
20	QPSK	1	99	22.85	22.82	22.94	
20	QPSK	50	0	22.02	21.92	22.01	23.5
20	QPSK	50	24	22.06	21.97	22.09	
20	QPSK	50	50	21.99	21.91	22.02	
20	QPSK	100	0	22.03	21.91	22.04	
20	16QAM	1	0	22.30	22.22	22.36	23.5
20	16QAM	1	49	22.30	22.27	22.41	
20	16QAM	1	99	22.15	22.20	22.29	
20	16QAM	50	0	21.04	20.95	21.04	22.5
20	16QAM	50	24	21.11	21.00	21.13	
20	16QAM	50	50	20.99	20.94	21.06	
20	16QAM	100	0	21.04	20.96	21.07	
20	64QAM	1	0	21.29	21.15	21.28	22.5
20	64QAM	1	49	21.28	21.14	21.30	
20	64QAM	1	99	21.12	21.02	21.18	
20	64QAM	50	0	20.02	19.93	20.04	21.5
20	64QAM	50	24	20.09	19.99	20.12	
20	64QAM	50	50	20.03	19.92	20.05	
20	64QAM	100	0	20.03	19.95	20.08	
20	256QAM	1	0	17.94	17.90	18.01	19.5
20	256QAM	1	49	18.12	18.04	18.13	
20	256QAM	1	99	18.05	17.97	18.09	
20	256QAM	50	0	17.93	17.85	17.95	19.5
20	256QAM	50	24	18.05	18.02	18.12	
20	256QAM	50	50	18.00	17.96	18.05	
20	256QAM	100	0	18.06	18.00	18.08	
Channel				26115	26340	26615	
Frequency (MHz)				1857.5	1880	1907.5	
15	QPSK	1	0	23.03	22.88	23.00	24.5
15	QPSK	1	37	23.03	22.92	23.04	
15	QPSK	1	74	22.86	22.90	23.00	
15	QPSK	36	0	22.02	21.96	22.02	23.5
15	QPSK	36	20	22.07	22.00	22.10	
15	QPSK	36	39	22.02	21.93	22.05	
15	QPSK	75	0	22.04	21.92	22.06	
15	16QAM	1	0	22.39	22.27	22.28	23.5
15	16QAM	1	37	22.39	22.21	22.39	
15	16QAM	1	74	22.12	22.12	22.27	
15	16QAM	36	0	21.05	21.01	21.06	22.5
15	16QAM	36	20	21.11	20.99	21.11	
15	16QAM	36	39	21.04	20.95	21.06	
15	16QAM	75	0	21.06	20.96	21.07	
15	64QAM	1	0	21.24	21.12	21.30	22.5
15	64QAM	1	37	21.27	21.23	21.31	



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15	64QAM	1	74	21.11	21.06	21.25	21.5
15	64QAM	36	0	20.00	20.01	20.04	
15	64QAM	36	20	20.11	20.00	20.13	
15	64QAM	36	39	20.01	19.96	20.06	
15	64QAM	75	0	20.08	20.00	20.07	19.5
15	256QAM	1	0	17.91	17.78	17.97	
15	256QAM	1	37	18.03	17.93	18.00	
15	256QAM	1	74	17.95	17.91	18.00	19.5
15	256QAM	36	0	17.83	17.80	17.88	
15	256QAM	36	20	18.01	17.98	18.09	
15	256QAM	36	39	17.89	17.91	17.97	
15	256QAM	75	0	17.98	17.94	18.01	
Channel				26090	26340	26640	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1910	
10	QPSK	1	0	22.90	22.70	22.91	24.5
10	QPSK	1	25	22.86	22.84	22.87	
10	QPSK	1	49	22.72	22.84	22.90	
10	QPSK	25	0	21.95	21.88	21.88	23.5
10	QPSK	25	12	21.92	21.92	22.01	
10	QPSK	25	25	21.95	21.90	21.87	
10	QPSK	50	0	21.90	21.82	21.98	
10	16QAM	1	0	22.35	22.09	22.25	23.5
10	16QAM	1	25	22.28	22.03	22.26	
10	16QAM	1	49	22.06	22.04	22.13	
10	16QAM	25	0	20.95	20.97	21.03	22.5
10	16QAM	25	12	21.05	20.86	21.07	
10	16QAM	25	25	20.86	20.85	20.97	
10	16QAM	50	0	20.88	20.82	20.89	
10	64QAM	1	0	21.16	20.96	21.20	22.5
10	64QAM	1	25	21.19	21.19	21.22	
10	64QAM	1	49	21.05	20.93	21.18	
10	64QAM	25	0	19.97	19.87	20.00	21.5
10	64QAM	25	12	19.97	19.87	20.05	
10	64QAM	25	25	19.87	19.81	20.02	
10	64QAM	50	0	19.93	19.94	19.93	
10	256QAM	1	0	17.84	17.86	17.97	19.5
10	256QAM	1	25	18.05	17.95	18.06	
10	256QAM	1	49	18.01	17.85	18.03	
10	256QAM	25	0	17.90	17.81	17.89	19.5
10	256QAM	25	12	17.95	17.97	17.99	
10	256QAM	25	25	17.96	17.93	17.92	
10	256QAM	50	0	17.94	17.87	17.97	
Channel				26065	26340	26665	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1912.5	
5	QPSK	1	0	22.97	22.70	22.97	24.5
5	QPSK	1	12	22.85	22.83	22.97	
5	QPSK	1	24	22.79	22.75	22.83	
5	QPSK	12	0	21.94	21.86	21.96	23.5
5	QPSK	12	7	21.97	21.94	22.06	
5	QPSK	12	13	21.85	21.85	21.89	
5	QPSK	25	0	21.97	21.84	22.02	
5	16QAM	1	0	22.31	22.19	22.25	23.5
5	16QAM	1	12	22.22	22.09	22.33	
5	16QAM	1	24	21.97	21.98	22.18	
5	16QAM	12	0	21.00	20.85	21.02	22.5
5	16QAM	12	7	21.04	20.91	21.01	
5	16QAM	12	13	20.93	20.91	21.00	
5	16QAM	25	0	20.88	20.91	20.92	
5	64QAM	1	0	21.18	21.00	21.27	22.5
5	64QAM	1	12	21.23	21.13	21.21	
5	64QAM	1	24	21.02	21.01	21.13	
5	64QAM	12	0	19.94	19.93	19.98	21.5
5	64QAM	12	7	20.03	19.91	20.06	



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5	64QAM	12	13	19.92	19.84	19.98	19.5
5	64QAM	25	0	20.04	19.96	19.99	
5	256QAM	1	0	17.87	17.78	17.92	
5	256QAM	1	12	18.09	17.96	18.04	
5	256QAM	1	24	17.93	17.88	18.06	19.5
5	256QAM	12	0	17.90	17.72	17.90	
5	256QAM	12	7	18.00	17.99	18.06	
5	256QAM	12	13	17.87	17.90	17.93	
5	256QAM	25	0	18.01	17.95	17.98	Tune-up limit (dBm)
Channel				26055	26340	26675	
Frequency (MHz)				1851.5	1880	1913.5	
3	QPSK	1	0	22.96	22.85	22.88	24.5
3	QPSK	1	8	22.89	22.75	23.01	
3	QPSK	1	14	22.77	22.74	22.88	
3	QPSK	8	0	21.86	21.82	21.86	23.5
3	QPSK	8	4	21.90	21.85	21.97	
3	QPSK	8	7	21.86	21.77	21.90	
3	QPSK	15	0	21.96	21.81	21.91	23.5
3	16QAM	1	0	22.36	22.21	22.23	
3	16QAM	1	8	22.31	22.18	22.35	
3	16QAM	1	14	22.03	22.00	22.20	22.5
3	16QAM	8	0	20.93	20.93	21.01	
3	16QAM	8	4	20.97	20.91	21.01	
3	16QAM	8	7	20.87	20.87	21.01	22.5
3	16QAM	15	0	20.93	20.78	20.97	
3	64QAM	1	0	21.07	21.05	21.25	
3	64QAM	1	8	21.17	21.17	21.18	22.5
3	64QAM	1	14	20.98	20.99	21.19	
3	64QAM	8	0	19.84	19.89	19.98	21.5
3	64QAM	8	4	19.97	19.85	19.95	
3	64QAM	8	7	19.91	19.85	20.02	
3	64QAM	15	0	19.95	19.97	19.92	19.5
3	256QAM	1	0	17.82	17.87	17.88	
3	256QAM	1	8	17.99	17.95	18.07	
3	256QAM	1	14	18.00	17.87	17.98	19.5
3	256QAM	8	0	17.81	17.80	17.88	
3	256QAM	8	4	17.94	17.92	18.06	
3	256QAM	8	7	17.93	17.90	17.96	19.5
3	256QAM	15	0	17.97	17.95	18.02	
Channel				26047	26340	26683	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1914.3	
1.4	QPSK	1	0	22.97	22.87	22.97	24.5
1.4	QPSK	1	3	22.96	22.88	23.02	
1.4	QPSK	1	5	22.94	22.87	22.98	
1.4	QPSK	3	0	22.98	22.88	23.01	
1.4	QPSK	3	1	22.98	22.89	23.01	
1.4	QPSK	3	3	22.98	22.88	23.02	
1.4	QPSK	6	0	22.02	21.89	22.06	23.5
1.4	16QAM	1	0	22.32	22.21	22.37	23.5
1.4	16QAM	1	3	22.36	22.21	22.33	
1.4	16QAM	1	5	22.36	22.16	22.27	
1.4	16QAM	3	0	22.10	22.05	22.15	
1.4	16QAM	3	1	22.10	22.02	22.16	
1.4	16QAM	3	3	22.10	22.01	22.11	
1.4	16QAM	6	0	21.10	21.01	21.10	22.5
1.4	64QAM	1	0	21.29	21.06	21.24	22.5
1.4	64QAM	1	3	21.24	21.14	21.22	
1.4	64QAM	1	5	21.26	21.11	21.21	
1.4	64QAM	3	0	21.18	21.05	21.22	
1.4	64QAM	3	1	21.17	21.07	21.19	
1.4	64QAM	3	3	21.14	21.03	21.17	
1.4	64QAM	6	0	20.09	20.01	20.13	21.5
1.4	256QAM	1	0	17.86	17.83	17.92	19.5



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1.4	256QAM	1	3	17.99	17.93	18.03	
1.4	256QAM	1	5	17.92	17.94	18.03	
1.4	256QAM	3	0	17.90	17.75	17.86	
1.4	256QAM	3	1	17.98	17.98	17.99	
1.4	256QAM	3	3	17.92	17.93	18.00	
1.4	256QAM	6	0	17.95	17.96	18.03	19.5

<LTE Band 25_Ant MIMO2_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				26140	26340	26590	
Frequency (MHz)				1860	1880	1905	
20	QPSK	1	0	23.70	23.74	23.69	24.5
20	QPSK	1	49	22.63	22.67	22.62	
20	QPSK	1	99	23.55	23.59	23.54	
20	QPSK	50	0	22.65	22.69	22.64	23.5
20	QPSK	50	24	22.70	22.74	22.69	
20	QPSK	50	50	22.68	22.72	22.67	
20	QPSK	100	0	22.70	22.74	22.69	23.5
20	16QAM	1	0	22.78	22.82	22.77	
20	16QAM	1	49	22.77	22.81	22.76	
20	16QAM	1	99	22.73	22.77	22.72	22.5
20	16QAM	50	0	21.59	21.63	21.58	
20	16QAM	50	24	21.74	21.78	21.73	
20	16QAM	50	50	21.67	21.71	21.66	22.5
20	16QAM	100	0	21.65	21.69	21.64	
20	64QAM	1	0	21.43	21.47	21.42	
20	64QAM	1	49	21.38	21.42	21.37	22.5
20	64QAM	1	99	21.37	21.41	21.36	
20	64QAM	50	0	20.61	20.64	20.60	21.5
20	64QAM	50	24	20.71	20.74	20.70	
20	64QAM	50	50	20.70	20.73	20.69	
20	64QAM	100	0	20.69	20.72	20.68	19.5
20	256QAM	1	0	18.63	18.66	18.59	
20	256QAM	1	49	18.70	18.76	18.70	
20	256QAM	1	99	18.64	18.69	18.61	19.5
20	256QAM	50	0	18.57	18.61	18.57	
20	256QAM	50	24	18.68	18.75	18.68	
20	256QAM	50	50	18.68	18.71	18.66	19.5
20	256QAM	100	0	18.69	18.75	18.71	
Channel				26115	26340	26615	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1907.5	
15	QPSK	1	0	23.63	23.65	23.66	24.5
15	QPSK	1	37	22.58	22.58	22.56	
15	QPSK	1	74	23.51	23.50	23.50	
15	QPSK	36	0	22.61	22.64	22.55	23.5
15	QPSK	36	20	22.64	22.66	22.59	
15	QPSK	36	39	22.59	22.69	22.63	
15	QPSK	75	0	22.61	22.64	22.61	23.5
15	16QAM	1	0	22.73	22.76	22.67	
15	16QAM	1	37	22.71	22.77	22.69	
15	16QAM	1	74	22.70	22.67	22.62	22.5
15	16QAM	36	0	21.49	21.53	21.50	
15	16QAM	36	20	21.69	21.70	21.69	
15	16QAM	36	39	21.60	21.64	21.58	22.5
15	16QAM	75	0	21.60	21.64	21.58	
15	64QAM	1	0	21.36	21.41	21.35	
15	64QAM	1	37	21.30	21.34	21.27	22.5
15	64QAM	1	74	21.31	21.37	21.28	
15	64QAM	36	0	20.58	20.55	20.55	
15	64QAM	36	20	20.61	20.69	20.65	21.5



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15	64QAM	36	39	20.64	20.68	20.64	19.5
15	64QAM	75	0	20.62	20.62	20.65	
15	256QAM	1	0	18.49	18.55	18.40	
15	256QAM	1	37	18.57	18.59	18.54	
15	256QAM	1	74	18.54	18.58	18.51	19.5
15	256QAM	36	0	18.46	18.41	18.45	
15	256QAM	36	20	18.49	18.62	18.55	
15	256QAM	36	39	18.53	18.52	18.53	
15	256QAM	75	0	18.51	18.57	18.54	Tune-up limit (dBm)
Channel				26090	26340	26640	
Frequency (MHz)				1855	1880	1910	24.5
10	QPSK	1	0	23.65	23.66	23.62	
10	QPSK	1	25	22.60	22.63	22.59	
10	QPSK	1	49	23.46	23.49	23.46	
10	QPSK	25	0	22.59	22.66	22.56	23.5
10	QPSK	25	12	22.65	22.64	22.61	
10	QPSK	25	25	22.64	22.66	22.59	
10	QPSK	50	0	22.62	22.67	22.65	
10	16QAM	1	0	22.73	22.73	22.67	23.5
10	16QAM	1	25	22.70	22.72	22.69	
10	16QAM	1	49	22.63	22.68	22.66	
10	16QAM	25	0	21.52	21.57	21.51	
10	16QAM	25	12	21.67	21.73	21.70	22.5
10	16QAM	25	25	21.59	21.61	21.57	
10	16QAM	50	0	21.57	21.64	21.60	
10	64QAM	1	0	21.36	21.40	21.32	
10	64QAM	1	25	21.32	21.33	21.30	22.5
10	64QAM	1	49	21.34	21.31	21.27	
10	64QAM	25	0	20.53	20.60	20.55	
10	64QAM	25	12	20.61	20.65	20.61	
10	64QAM	25	25	20.66	20.64	20.64	21.5
10	64QAM	50	0	20.60	20.68	20.65	
10	256QAM	1	0	18.50	18.53	18.40	
10	256QAM	1	25	18.60	18.60	18.56	
10	256QAM	1	49	18.50	18.50	18.50	19.5
10	256QAM	25	0	18.44	18.48	18.44	
10	256QAM	25	12	18.56	18.59	18.54	
10	256QAM	25	25	18.55	18.56	18.53	
10	256QAM	50	0	18.59	18.60	18.57	Tune-up limit (dBm)
Channel				26065	26340	26665	
Frequency (MHz)				1852.5	1880	1912.5	24.5
5	QPSK	1	0	23.67	23.67	23.60	
5	QPSK	1	12	22.56	22.59	22.55	
5	QPSK	1	24	23.51	23.50	23.51	
5	QPSK	12	0	22.55	22.63	22.55	23.5
5	QPSK	12	7	22.62	22.70	22.59	
5	QPSK	12	13	22.59	22.63	22.63	
5	QPSK	25	0	22.64	22.67	22.66	
5	16QAM	1	0	22.73	22.72	22.67	23.5
5	16QAM	1	12	22.73	22.78	22.69	
5	16QAM	1	24	22.64	22.71	22.69	
5	16QAM	12	0	21.51	21.58	21.48	
5	16QAM	12	7	21.66	21.70	21.64	22.5
5	16QAM	12	13	21.62	21.68	21.56	
5	16QAM	25	0	21.55	21.63	21.55	
5	64QAM	1	0	21.36	21.40	21.32	
5	64QAM	1	12	21.29	21.39	21.33	22.5
5	64QAM	1	24	21.28	21.35	21.33	
5	64QAM	12	0	20.51	20.61	20.53	
5	64QAM	12	7	20.68	20.69	20.63	
5	64QAM	12	13	20.64	20.64	20.65	21.5
5	64QAM	25	0	20.61	20.64	20.59	
5	256QAM	1	0	18.45	18.48	18.39	
5	256QAM	1	0	18.45	18.48	18.39	19.5



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5	256QAM	1	12	18.60	18.66	18.52	19.5
5	256QAM	1	24	18.52	18.51	18.44	
5	256QAM	12	0	18.39	18.47	18.41	
5	256QAM	12	7	18.51	18.64	18.58	
5	256QAM	12	13	18.52	18.54	18.55	
5	256QAM	25	0	18.52	18.56	18.51	
Channel				26055	26340	26675	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1913.5	
3	QPSK	1	0	23.65	23.71	23.66	24.5
3	QPSK	1	8	22.58	22.57	22.53	
3	QPSK	1	14	23.50	23.49	23.46	
3	QPSK	8	0	22.59	22.61	22.55	23.5
3	QPSK	8	4	22.61	22.65	22.64	
3	QPSK	8	7	22.58	22.63	22.63	
3	QPSK	15	0	22.60	22.67	22.64	
3	16QAM	1	0	22.70	22.79	22.68	23.5
3	16QAM	1	8	22.72	22.72	22.68	
3	16QAM	1	14	22.70	22.67	22.67	
3	16QAM	8	0	21.51	21.55	21.51	22.5
3	16QAM	8	4	21.66	21.73	21.68	
3	16QAM	8	7	21.62	21.64	21.61	
3	16QAM	15	0	21.59	21.64	21.57	
3	64QAM	1	0	21.34	21.39	21.33	22.5
3	64QAM	1	8	21.34	21.38	21.27	
3	64QAM	1	14	21.28	21.37	21.28	
3	64QAM	8	0	20.51	20.59	20.52	21.5
3	64QAM	8	4	20.68	20.70	20.61	
3	64QAM	8	7	20.67	20.63	20.66	
3	64QAM	15	0	20.64	20.65	20.64	
3	256QAM	1	0	18.39	18.35	18.30	19.5
3	256QAM	1	8	18.52	18.56	18.46	
3	256QAM	1	14	18.47	18.43	18.29	
3	256QAM	8	0	18.29	18.39	18.36	19.5
3	256QAM	8	4	18.36	18.50	18.52	
3	256QAM	8	7	18.45	18.46	18.41	
3	256QAM	15	0	18.40	18.48	18.46	
Channel				26047	26340	26683	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1914.3	
1.4	QPSK	1	0	23.51	23.63	23.59	24.5
1.4	QPSK	1	3	23.50	23.62	23.58	
1.4	QPSK	1	5	23.51	23.63	23.59	
1.4	QPSK	3	0	23.49	23.61	23.57	
1.4	QPSK	3	1	23.47	23.59	23.55	
1.4	QPSK	3	3	23.43	23.55	23.51	23.5
1.4	QPSK	6	0	22.45	22.56	22.52	
1.4	16QAM	1	0	22.74	22.86	22.82	23.5
1.4	16QAM	1	3	22.76	22.88	22.84	
1.4	16QAM	1	5	22.75	22.87	22.83	
1.4	16QAM	3	0	22.66	22.78	22.74	
1.4	16QAM	3	1	22.65	22.77	22.73	
1.4	16QAM	3	3	22.65	22.77	22.73	22.5
1.4	16QAM	6	0	21.40	21.51	21.47	
1.4	64QAM	1	0	21.42	21.53	21.49	22.5
1.4	64QAM	1	3	21.38	21.49	21.45	
1.4	64QAM	1	5	21.37	21.48	21.44	
1.4	64QAM	3	0	21.71	21.82	21.78	
1.4	64QAM	3	1	21.68	21.79	21.75	
1.4	64QAM	3	3	21.69	21.80	21.76	21.5
1.4	64QAM	6	0	20.51	20.61	20.58	
1.4	256QAM	1	0	18.37	18.40	18.31	19.5
1.4	256QAM	1	3	18.53	18.55	18.42	
1.4	256QAM	1	5	18.41	18.40	18.30	
1.4	256QAM	3	0	18.24	18.39	18.28	



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1.4	256QAM	3	1	18.36	18.55	18.52	
1.4	256QAM	3	3	18.40	18.39	18.50	
1.4	256QAM	6	0	18.43	18.49	18.38	19.5

<LTE Band 26_Ant Main_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				26765	26865	26965	
Frequency (MHz)				821.5	831.5	841.5	
15	QPSK	1	0	23.31	23.29	23.22	24.5
15	QPSK	1	37	23.40	23.32	23.34	
15	QPSK	1	74	23.34	23.30	23.32	
15	QPSK	36	0	22.33	22.31	22.31	23.5
15	QPSK	36	20	22.45	22.41	22.42	
15	QPSK	36	39	22.43	22.40	22.41	
15	QPSK	75	0	22.42	22.37	22.39	23.5
15	16QAM	1	0	22.62	22.67	22.57	
15	16QAM	1	37	22.68	22.61	22.62	
15	16QAM	1	74	22.62	22.67	22.59	22.5
15	16QAM	36	0	21.34	21.31	21.31	
15	16QAM	36	20	21.46	21.43	21.44	
15	16QAM	36	39	21.46	21.44	21.44	22.5
15	16QAM	75	0	21.43	21.40	21.44	
15	64QAM	1	0	21.54	21.62	21.51	22.5
15	64QAM	1	37	21.62	21.56	21.54	
15	64QAM	1	74	21.57	21.59	21.57	
15	64QAM	36	0	20.33	20.32	20.31	21.5
15	64QAM	36	20	20.46	20.43	20.43	
15	64QAM	36	39	20.48	20.43	20.42	
15	64QAM	75	0	20.45	20.40	20.44	19.5
15	256QAM	1	0	18.36	18.33	18.32	
15	256QAM	1	37	18.45	18.45	18.49	
15	256QAM	1	74	18.55	18.52	18.54	19.5
15	256QAM	36	0	18.31	18.30	18.32	
15	256QAM	36	20	18.36	18.31	18.30	
15	256QAM	36	39	18.45	18.41	18.45	19.5
15	256QAM	75	0	18.41	18.39	18.39	
Channel				26740	26865	26990	
Frequency (MHz)				819	831.5	844	
10	QPSK	1	0	23.35	23.21	23.19	24.5
10	QPSK	1	25	23.14	23.22	23.27	
10	QPSK	1	49	23.25	23.20	23.30	
10	QPSK	25	0	22.25	22.27	22.20	23.5
10	QPSK	25	12	22.33	22.22	22.38	
10	QPSK	25	25	22.25	22.31	22.24	
10	QPSK	50	0	22.32	22.25	22.28	23.5
10	16QAM	1	0	22.48	22.59	22.41	
10	16QAM	1	25	22.60	22.52	22.59	
10	16QAM	1	49	22.54	22.50	22.55	22.5
10	16QAM	25	0	21.28	21.16	21.19	
10	16QAM	25	12	21.40	21.33	21.31	
10	16QAM	25	25	21.34	21.37	21.26	22.5
10	16QAM	50	0	21.28	21.28	21.41	
10	64QAM	1	0	21.44	21.47	21.33	
10	64QAM	1	25	21.58	21.41	21.46	22.5
10	64QAM	1	49	21.43	21.48	21.49	
10	64QAM	25	0	20.18	20.29	20.16	
10	64QAM	25	12	20.31	20.34	20.29	21.5
10	64QAM	25	25	20.36	20.37	20.37	
10	64QAM	50	0	20.36	20.29	20.41	
10	256QAM	1	0	18.30	18.24	18.21	19.5



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10	256QAM	1	25	18.38	18.40	18.39	19.5
10	256QAM	1	49	18.40	18.40	18.45	
10	256QAM	25	0	18.26	18.15	18.21	
10	256QAM	25	12	18.28	18.26	18.21	
10	256QAM	25	25	18.37	18.34	18.34	
10	256QAM	50	0	18.31	18.31	18.34	
Channel				26715	26865	27015	Tune-up limit (dBm)
Frequency (MHz)				816.5	831.5	846.5	
5	QPSK	1	0	23.37	23.24	23.14	24.5
5	QPSK	1	12	23.23	23.19	23.27	
5	QPSK	1	24	23.31	23.18	23.23	
5	QPSK	12	0	22.30	22.23	22.13	23.5
5	QPSK	12	7	22.38	22.26	22.38	
5	QPSK	12	13	22.34	22.29	22.32	
5	QPSK	25	0	22.30	22.24	22.23	
5	16QAM	1	0	22.59	22.59	22.46	23.5
5	16QAM	1	12	22.52	22.45	22.53	
5	16QAM	1	24	22.51	22.53	22.54	
5	16QAM	12	0	21.29	21.23	21.28	22.5
5	16QAM	12	7	21.28	21.27	21.30	
5	16QAM	12	13	21.35	21.32	21.27	
5	16QAM	25	0	21.39	21.36	21.35	
5	64QAM	1	0	21.36	21.47	21.46	22.5
5	64QAM	1	12	21.58	21.38	21.46	
5	64QAM	1	24	21.46	21.54	21.47	
5	64QAM	12	0	20.18	20.14	20.14	21.5
5	64QAM	12	7	20.40	20.29	20.34	
5	64QAM	12	13	20.32	20.33	20.26	
5	64QAM	25	0	20.30	20.28	20.32	
5	256QAM	1	0	18.23	18.22	18.25	19.5
5	256QAM	1	12	18.33	18.30	18.43	
5	256QAM	1	24	18.40	18.37	18.41	
5	256QAM	12	0	18.25	18.24	18.25	19.5
5	256QAM	12	7	18.28	18.21	18.25	
5	256QAM	12	13	18.39	18.29	18.30	
5	256QAM	25	0	18.35	18.30	18.34	Tune-up limit (dBm)
Channel				26705	26865	27025	
Frequency (MHz)				815.5	831.5	847.5	
3	QPSK	1	0	23.23	23.21	23.11	24.5
3	QPSK	1	8	23.21	23.11	23.16	
3	QPSK	1	14	23.23	23.25	23.31	
3	QPSK	8	0	22.30	22.19	22.24	23.5
3	QPSK	8	4	22.32	22.32	22.29	
3	QPSK	8	7	22.27	22.23	22.35	
3	QPSK	15	0	22.34	22.26	22.25	
3	16QAM	1	0	22.47	22.49	22.42	23.5
3	16QAM	1	8	22.61	22.55	22.57	
3	16QAM	1	14	22.47	22.52	22.50	
3	16QAM	8	0	21.25	21.27	21.25	22.5
3	16QAM	8	4	21.28	21.31	21.28	
3	16QAM	8	7	21.34	21.38	21.41	
3	16QAM	15	0	21.32	21.30	21.29	
3	64QAM	1	0	21.36	21.53	21.39	22.5
3	64QAM	1	8	21.45	21.49	21.40	
3	64QAM	1	14	21.47	21.54	21.41	
3	64QAM	8	0	20.21	20.23	20.16	21.5
3	64QAM	8	4	20.38	20.38	20.34	
3	64QAM	8	7	20.45	20.32	20.24	
3	64QAM	15	0	20.31	20.35	20.29	
3	256QAM	1	0	18.21	18.28	18.26	19.5
3	256QAM	1	8	18.37	18.31	18.39	
3	256QAM	1	14	18.49	18.41	18.41	
3	256QAM	8	0	18.26	18.23	18.26	19.5



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3	256QAM	8	4	18.24	18.17	18.25	
3	256QAM	8	7	18.31	18.31	18.33	
3	256QAM	15	0	18.33	18.32	18.25	
Channel				26697	26865	27033	Tune-up limit (dBm)
Frequency (MHz)				814.7	831.5	848.3	
1.4	QPSK	1	0	23.20	23.33	23.34	24.5
1.4	QPSK	1	3	23.35	23.39	23.37	
1.4	QPSK	1	5	23.34	23.30	23.31	
1.4	QPSK	3	0	23.27	23.33	23.35	
1.4	QPSK	3	1	23.31	23.34	23.38	
1.4	QPSK	3	3	23.36	23.34	23.35	
1.4	QPSK	6	0	22.24	22.35	22.40	23.5
1.4	16QAM	1	0	22.39	22.67	22.68	23.5
1.4	16QAM	1	3	22.53	22.67	22.69	
1.4	16QAM	1	5	22.52	22.61	22.64	
1.4	16QAM	3	0	22.30	22.47	22.51	
1.4	16QAM	3	1	22.29	22.52	22.47	
1.4	16QAM	3	3	22.35	22.42	22.47	
1.4	16QAM	6	0	21.26	21.40	21.47	22.5
1.4	64QAM	1	0	21.30	21.49	21.58	22.5
1.4	64QAM	1	3	21.41	21.63	21.59	
1.4	64QAM	1	5	21.47	21.55	21.52	
1.4	64QAM	3	0	21.29	21.50	21.47	
1.4	64QAM	3	1	21.30	21.49	21.50	
1.4	64QAM	3	3	21.42	21.50	21.49	
1.4	64QAM	6	0	20.23	20.39	20.46	21.5
1.4	256QAM	1	0	18.31	18.23	18.25	19.5
1.4	256QAM	1	3	18.38	18.37	18.43	
1.4	256QAM	1	5	18.42	18.41	18.40	
1.4	256QAM	3	0	18.19	18.18	18.24	
1.4	256QAM	3	1	18.28	18.17	18.16	
1.4	256QAM	3	3	18.35	18.36	18.40	
1.4	256QAM	6	0	18.34	18.25	18.33	19.5

<LTE Band 30_Ant Main_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				27710			
Frequency (MHz)				2310			
10	QPSK	1	0		21.61		23
10	QPSK	1	25		21.63		
10	QPSK	1	49		21.48		
10	QPSK	25	0		20.65		22
10	QPSK	25	12		20.66		
10	QPSK	25	25		20.62		
10	QPSK	50	0		20.61		
10	16QAM	1	0		20.84		22
10	16QAM	1	25		20.92		
10	16QAM	1	49		20.79		
10	16QAM	25	0		19.69		21
10	16QAM	25	12		19.72		
10	16QAM	25	25		19.64		
10	16QAM	50	0		19.66		
10	64QAM	1	0		19.85		21
10	64QAM	1	25		19.81		
10	64QAM	1	49		19.70		
10	64QAM	25	0		18.69		20
10	64QAM	25	12		18.68		
10	64QAM	25	25		18.63		
10	64QAM	50	0		18.66		
10	256QAM	1	0		16.53		18

10	256QAM	1	25		16.75		18
10	256QAM	1	49		16.58		
10	256QAM	25	0		16.57		
10	256QAM	25	12		16.59		
10	256QAM	25	25		16.55		
10	256QAM	50	0		16.57		
Channel				27685	27710	27735	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	QPSK	1	0	21.51	21.47	21.57	23
5	QPSK	1	12	21.41	21.46	21.55	
5	QPSK	1	24	21.29	21.31	21.29	
5	QPSK	12	0	20.54	20.47	20.47	22
5	QPSK	12	7	20.47	20.46	20.55	
5	QPSK	12	13	20.50	20.59	20.59	
5	QPSK	25	0	20.44	20.49	20.51	
5	16QAM	1	0	20.68	20.78	20.81	22
5	16QAM	1	12	20.76	20.86	20.75	
5	16QAM	1	24	20.71	20.66	20.62	
5	16QAM	12	0	19.61	19.65	19.61	21
5	16QAM	12	7	19.59	19.56	19.56	
5	16QAM	12	13	19.61	19.45	19.58	
5	16QAM	25	0	19.47	19.58	19.62	
5	64QAM	1	0	19.70	19.78	19.69	21
5	64QAM	1	12	19.74	19.71	19.61	
5	64QAM	1	24	19.57	19.60	19.63	
5	64QAM	12	0	18.52	18.59	18.63	20
5	64QAM	12	7	18.59	18.51	18.52	
5	64QAM	12	13	18.44	18.43	18.45	
5	64QAM	25	0	18.48	18.53	18.56	
5	256QAM	1	0	16.39	16.47	16.46	18
5	256QAM	1	12	16.63	16.71	16.73	
5	256QAM	1	24	16.48	16.55	16.54	
5	256QAM	12	0	16.47	16.53	16.51	18
5	256QAM	12	7	16.47	16.53	16.53	
5	256QAM	12	13	16.43	16.49	16.51	
5	256QAM	25	0	16.42	16.52	16.51	

<LTE Band 30_Ant MIMO2_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				27710			
Frequency (MHz)				2310			
10	QPSK	1	0		22.38		23
10	QPSK	1	25		22.36		
10	QPSK	1	49		22.31		
10	QPSK	25	0		21.39		22
10	QPSK	25	12		21.40		
10	QPSK	25	25		21.34		
10	QPSK	50	0		21.40		
10	16QAM	1	0		21.64		22
10	16QAM	1	25		21.65		
10	16QAM	1	49		21.56		
10	16QAM	25	0		20.36		21
10	16QAM	25	12		20.37		
10	16QAM	25	25		20.34		
10	16QAM	50	0		20.41		
10	64QAM	1	0		20.09		21
10	64QAM	1	25		20.22		
10	64QAM	1	49		20.01		
10	64QAM	25	0		19.49		20
10	64QAM	25	12		19.45		



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10	64QAM	25	25		19.43		
10	64QAM	50	0		19.42		
10	256QAM	1	0		17.23		
10	256QAM	1	25		17.43		18
10	256QAM	1	49		17.28		
10	256QAM	25	0		17.19		
10	256QAM	25	12		17.29		18
10	256QAM	25	25		17.20		
10	256QAM	50	0		17.24		
Channel				27685	27710	27735	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	QPSK	1	0	22.29	22.35	22.31	23
5	QPSK	1	12	22.27	22.33	22.29	
5	QPSK	1	24	22.22	22.28	22.24	
5	QPSK	12	0	21.30	21.36	21.32	22
5	QPSK	12	7	21.31	21.37	21.33	
5	QPSK	12	13	21.25	21.31	21.27	
5	QPSK	25	0	21.31	21.37	21.33	22
5	16QAM	1	0	21.55	21.61	21.57	
5	16QAM	1	12	21.56	21.62	21.58	
5	16QAM	1	24	21.47	21.53	21.49	21
5	16QAM	12	0	20.28	20.33	20.29	
5	16QAM	12	7	20.29	20.34	20.30	
5	16QAM	12	13	20.26	20.31	20.27	21
5	16QAM	25	0	20.33	20.38	20.34	
5	64QAM	1	0	20.01	20.06	20.02	
5	64QAM	1	12	20.14	20.19	20.15	21
5	64QAM	1	24	19.93	19.98	19.94	
5	64QAM	12	0	19.41	19.46	19.43	20
5	64QAM	12	7	19.37	19.42	19.39	
5	64QAM	12	13	19.35	19.40	19.37	
5	64QAM	25	0	19.34	19.39	19.36	18
5	256QAM	1	0	17.16	17.26	17.22	
5	256QAM	1	12	17.37	17.46	17.40	
5	256QAM	1	24	17.23	17.31	17.28	18
5	256QAM	12	0	17.18	17.25	17.19	
5	256QAM	12	7	17.24	17.31	17.27	
5	256QAM	12	13	17.17	17.24	17.19	18
5	256QAM	25	0	17.18	17.28	17.20	

<LTE Band 66_Ant Main_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	22.92	22.91	22.94	24.5
20	QPSK	1	49	22.96	22.94	23.00	
20	QPSK	1	99	22.81	22.85	22.84	
20	QPSK	50	0	21.96	21.92	21.97	23.5
20	QPSK	50	24	22.01	22.00	22.02	
20	QPSK	50	50	21.97	21.94	21.92	
20	QPSK	100	0	21.99	21.86	22.00	23.5
20	16QAM	1	0	22.23	22.24	22.28	
20	16QAM	1	49	22.26	22.32	22.20	
20	16QAM	1	99	22.07	22.09	22.19	22.5
20	16QAM	50	0	20.98	20.97	20.97	
20	16QAM	50	24	21.06	20.97	21.03	
20	16QAM	50	50	20.98	20.97	20.96	22.5
20	16QAM	100	0	21.01	20.93	20.98	
20	64QAM	1	0	21.17	21.23	21.24	
20	64QAM	1	49	21.20	21.22	21.20	



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20	64QAM	1	99	21.04	21.01	21.12	21.5
20	64QAM	50	0	19.97	19.97	20.00	
20	64QAM	50	24	20.05	19.96	20.03	
20	64QAM	50	50	19.97	19.95	19.96	
20	64QAM	100	0	20.00	19.95	20.01	19.5
20	256QAM	1	0	17.99	17.98	18.04	
20	256QAM	1	49	18.10	18.07	18.11	
20	256QAM	1	99	18.03	18.02	18.04	
20	256QAM	50	0	17.89	17.87	17.90	19.5
20	256QAM	50	24	18.04	18.02	18.07	
20	256QAM	50	50	18.04	18.01	18.02	
20	256QAM	100	0	18.04	18.00	18.03	
Channel				132047	132322	132597	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	22.99	22.95	22.99	24.5
15	QPSK	1	37	22.93	22.93	22.94	
15	QPSK	1	74	22.85	22.85	22.88	
15	QPSK	36	0	21.95	21.96	21.93	23.5
15	QPSK	36	20	22.00	21.95	21.91	
15	QPSK	36	39	21.96	21.96	21.93	
15	QPSK	75	0	21.97	21.90	21.89	
15	16QAM	1	0	22.27	22.29	22.26	23.5
15	16QAM	1	37	22.22	22.25	22.29	
15	16QAM	1	74	22.17	22.11	22.17	
15	16QAM	36	0	20.98	21.01	20.96	22.5
15	16QAM	36	20	21.05	20.94	20.93	
15	16QAM	36	39	20.98	20.99	20.98	
15	16QAM	75	0	21.03	20.91	20.91	
15	64QAM	1	0	21.17	21.20	21.10	22.5
15	64QAM	1	37	21.19	21.23	21.26	
15	64QAM	1	74	21.01	21.09	21.08	
15	64QAM	36	0	19.95	19.98	19.95	
15	64QAM	36	20	20.05	19.96	19.94	21.5
15	64QAM	36	39	19.98	19.98	19.96	
15	64QAM	75	0	20.00	19.95	19.93	
15	256QAM	1	0	17.94	17.89	17.96	
15	256QAM	1	37	18.02	17.97	18.08	19.5
15	256QAM	1	74	17.90	17.91	17.92	
15	256QAM	36	0	17.78	17.81	17.84	
15	256QAM	36	20	18.00	17.89	18.00	19.5
15	256QAM	36	39	17.94	17.93	17.97	
15	256QAM	75	0	17.96	17.91	17.89	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	22.97	22.97	22.94	24.5
10	QPSK	1	25	22.98	22.99	22.96	
10	QPSK	1	49	22.92	22.95	22.85	
10	QPSK	25	0	21.97	21.99	21.96	23.5
10	QPSK	25	12	22.02	21.97	22.02	
10	QPSK	25	25	22.00	21.96	21.98	
10	QPSK	50	0	22.01	21.91	21.98	
10	16QAM	1	0	22.24	22.25	22.22	23.5
10	16QAM	1	25	22.27	22.22	22.24	
10	16QAM	1	49	22.18	22.19	22.21	
10	16QAM	25	0	21.03	21.00	20.99	22.5
10	16QAM	25	12	21.08	20.98	21.06	
10	16QAM	25	25	21.04	21.00	20.98	
10	16QAM	50	0	21.02	20.93	21.03	
10	64QAM	1	0	21.17	21.20	21.17	22.5
10	64QAM	1	25	21.24	21.20	21.22	
10	64QAM	1	49	21.10	21.10	21.03	
10	64QAM	25	0	19.99	20.01	19.99	21.5
10	64QAM	25	12	20.06	19.98	20.05	



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10	64QAM	25	25	20.02	20.01	20.01	19.5
10	64QAM	50	0	20.03	19.93	20.03	
10	256QAM	1	0	17.83	17.89	17.98	
10	256QAM	1	25	17.98	17.98	17.95	
10	256QAM	1	49	17.96	17.88	17.99	19.5
10	256QAM	25	0	17.77	17.81	17.82	
10	256QAM	25	12	17.90	17.86	17.92	
10	256QAM	25	25	17.92	17.90	17.94	
10	256QAM	50	0	18.00	17.92	17.93	Tune-up limit (dBm)
Channel				131997	132322	132647	
Frequency (MHz)				1712.5	1745	1777.5	24.5
5	QPSK	1	0	22.79	22.88	22.87	
5	QPSK	1	12	22.81	22.83	22.93	
5	QPSK	1	24	22.76	22.90	22.73	
5	QPSK	12	0	21.87	21.83	21.79	23.5
5	QPSK	12	7	21.94	21.85	21.93	
5	QPSK	12	13	21.97	21.90	21.94	
5	QPSK	25	0	21.89	21.78	21.89	
5	16QAM	1	0	22.18	22.14	22.11	23.5
5	16QAM	1	12	22.12	22.11	22.10	
5	16QAM	1	24	22.05	22.05	22.05	
5	16QAM	12	0	20.95	20.91	20.81	
5	16QAM	12	7	21.01	20.87	21.03	22.5
5	16QAM	12	13	20.94	20.92	20.91	
5	16QAM	25	0	20.94	20.90	20.93	
5	64QAM	1	0	21.10	21.06	21.02	
5	64QAM	1	12	21.10	21.11	21.19	22.5
5	64QAM	1	24	20.96	21.03	20.95	
5	64QAM	12	0	19.82	19.84	19.92	
5	64QAM	12	7	19.99	19.80	19.93	
5	64QAM	12	13	19.92	19.98	19.98	21.5
5	64QAM	25	0	19.88	19.80	19.95	
5	256QAM	1	0	17.87	17.86	17.95	
5	256QAM	1	12	18.07	18.04	18.03	
5	256QAM	1	24	17.90	17.99	17.92	19.5
5	256QAM	12	0	17.80	17.81	17.82	
5	256QAM	12	7	18.00	17.93	18.01	
5	256QAM	12	13	17.91	17.88	17.99	
5	256QAM	25	0	17.91	17.91	17.98	Tune-up limit (dBm)
Channel				131987	132322	132657	
Frequency (MHz)				1711.5	1745	1778.5	24.5
3	QPSK	1	0	22.73	22.73	22.79	
3	QPSK	1	8	22.77	22.67	22.87	
3	QPSK	1	14	22.62	22.78	22.59	
3	QPSK	8	0	21.68	21.71	21.61	23.5
3	QPSK	8	4	21.83	21.82	21.82	
3	QPSK	8	7	21.90	21.74	21.74	
3	QPSK	15	0	21.86	21.59	21.85	
3	16QAM	1	0	22.09	22.04	21.97	23.5
3	16QAM	1	8	22.07	21.96	21.94	
3	16QAM	1	14	22.00	21.86	21.89	
3	16QAM	8	0	20.77	20.73	20.71	
3	16QAM	8	4	20.97	20.73	20.98	22.5
3	16QAM	8	7	20.84	20.77	20.75	
3	16QAM	15	0	20.76	20.83	20.80	
3	64QAM	1	0	20.91	20.86	20.94	
3	64QAM	1	8	21.05	20.99	21.06	22.5
3	64QAM	1	14	20.91	20.95	20.79	
3	64QAM	8	0	19.68	19.77	19.74	
3	64QAM	8	4	19.89	19.64	19.79	
3	64QAM	8	7	19.81	19.84	19.93	21.5
3	64QAM	15	0	19.72	19.75	19.92	
3	256QAM	1	0	17.84	17.82	17.95	
3	256QAM	1	0	17.84	17.82	17.95	19.5

3	256QAM	1	8	18.02	17.96	17.97	19.5
3	256QAM	1	14	17.98	17.99	17.91	
3	256QAM	8	0	17.85	17.73	17.81	
3	256QAM	8	4	17.99	17.98	17.95	
3	256QAM	8	7	17.90	17.88	17.93	
3	256QAM	15	0	17.97	17.96	17.88	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	22.92	22.96	22.94	24.5
1.4	QPSK	1	3	22.92	22.90	22.93	
1.4	QPSK	1	5	22.90	22.93	22.93	
1.4	QPSK	3	0	22.95	22.94	22.98	
1.4	QPSK	3	1	22.92	22.91	22.92	
1.4	QPSK	3	3	22.93	22.94	22.92	
1.4	QPSK	6	0	21.94	21.95	21.96	23.5
1.4	16QAM	1	0	22.31	22.26	22.25	23.5
1.4	16QAM	1	3	22.27	22.22	22.26	
1.4	16QAM	1	5	22.23	22.25	22.24	
1.4	16QAM	3	0	22.05	22.06	22.05	
1.4	16QAM	3	1	22.05	22.05	22.08	
1.4	16QAM	3	3	22.04	22.09	22.03	
1.4	16QAM	6	0	21.07	21.05	21.06	22.5
1.4	64QAM	1	0	21.16	21.26	21.19	22.5
1.4	64QAM	1	3	21.15	21.18	21.18	
1.4	64QAM	1	5	21.15	21.17	21.16	
1.4	64QAM	3	0	21.09	21.13	21.15	
1.4	64QAM	3	1	21.10	21.08	21.11	
1.4	64QAM	3	3	21.10	21.11	21.09	
1.4	64QAM	6	0	20.02	20.02	20.04	21.5
1.4	256QAM	1	0	17.94	17.87	17.97	19.5
1.4	256QAM	1	3	17.95	17.91	18.02	
1.4	256QAM	1	5	17.89	17.86	17.90	
1.4	256QAM	3	0	17.74	17.83	17.85	
1.4	256QAM	3	1	17.89	17.92	18.03	
1.4	256QAM	3	3	17.96	17.98	17.87	
1.4	256QAM	6	0	17.90	17.85	17.87	19.5

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	24.22	24.24	24.20	24.5
20	QPSK	1	49	24.17	24.19	24.15	
20	QPSK	1	99	24.13	24.15	24.11	
20	QPSK	50	0	23.19	23.21	23.17	23.5
20	QPSK	50	24	23.21	23.23	23.19	
20	QPSK	50	50	23.20	23.22	23.18	
20	QPSK	100	0	23.15	23.17	23.13	
20	16QAM	1	0	22.92	22.94	22.90	23.5
20	16QAM	1	49	22.91	22.93	22.89	
20	16QAM	1	99	22.90	22.92	22.88	
20	16QAM	50	0	22.19	22.21	22.17	22.5
20	16QAM	50	24	22.20	22.22	22.18	
20	16QAM	50	50	22.17	22.19	22.15	
20	16QAM	100	0	22.14	22.16	22.12	
20	64QAM	1	0	22.43	22.45	22.41	
20	64QAM	1	49	22.32	22.34	22.30	22.5
20	64QAM	1	99	22.20	22.22	22.18	
20	64QAM	50	0	21.27	21.29	21.25	
20	64QAM	50	24	21.25	21.27	21.23	21.5



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20	64QAM	50	50	21.26	21.28	21.24	19.5
20	64QAM	100	0	21.17	21.19	21.16	
20	256QAM	1	0	19.15	19.20	19.16	
20	256QAM	1	49	19.25	19.30	19.27	
20	256QAM	1	99	19.23	19.26	19.18	19.5
20	256QAM	50	0	19.05	19.09	19.04	
20	256QAM	50	24	19.19	19.21	19.16	
20	256QAM	50	50	19.18	19.22	19.16	
20	256QAM	100	0	19.15	19.22	19.14	Tune-up limit (dBm)
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	24.5
15	QPSK	1	0	24.16	24.19	24.15	
15	QPSK	1	37	24.10	24.11	24.07	
15	QPSK	1	74	24.06	24.08	24.03	
15	QPSK	36	0	23.14	23.12	23.11	23.5
15	QPSK	36	20	23.12	23.14	23.11	
15	QPSK	36	39	23.10	23.15	23.12	
15	QPSK	75	0	23.05	23.12	23.05	
15	16QAM	1	0	22.85	22.87	22.82	23.5
15	16QAM	1	37	22.86	22.84	22.84	
15	16QAM	1	74	22.80	22.87	22.78	
15	16QAM	36	0	22.13	22.15	22.07	
15	16QAM	36	20	22.12	22.12	22.13	22.5
15	16QAM	36	39	22.11	22.10	22.06	
15	16QAM	75	0	22.09	22.09	22.03	
15	64QAM	1	0	22.38	22.35	22.36	
15	64QAM	1	37	22.26	22.25	22.20	22.5
15	64QAM	1	74	22.12	22.12	22.13	
15	64QAM	36	0	21.18	21.21	21.17	
15	64QAM	36	20	21.20	21.19	21.18	
15	64QAM	36	39	21.19	21.21	21.15	21.5
15	64QAM	75	0	21.07	21.10	21.11	
15	256QAM	1	0	19.11	19.13	19.10	
15	256QAM	1	37	19.22	19.25	19.23	
15	256QAM	1	74	19.14	19.21	19.11	19.5
15	256QAM	36	0	19.01	19.05	18.97	
15	256QAM	36	20	19.11	19.14	19.13	
15	256QAM	36	39	19.12	19.15	19.08	
15	256QAM	75	0	19.08	19.18	19.07	Tune-up limit (dBm)
Channel				132022	132322	132622	
Frequency (MHz)				1715	1745	1775	24.5
10	QPSK	1	0	24.17	24.16	24.15	
10	QPSK	1	25	24.09	24.14	24.07	
10	QPSK	1	49	24.04	24.05	24.06	
10	QPSK	25	0	23.14	23.12	23.07	23.5
10	QPSK	25	12	23.13	23.15	23.14	
10	QPSK	25	25	23.13	23.15	23.09	
10	QPSK	50	0	23.05	23.07	23.07	
10	16QAM	1	0	22.82	22.85	22.80	23.5
10	16QAM	1	25	22.82	22.87	22.84	
10	16QAM	1	49	22.85	22.83	22.83	
10	16QAM	25	0	22.10	22.13	22.11	
10	16QAM	25	12	22.10	22.13	22.11	22.5
10	16QAM	25	25	22.08	22.13	22.09	
10	16QAM	50	0	22.06	22.08	22.06	
10	64QAM	1	0	22.34	22.38	22.34	
10	64QAM	1	25	22.23	22.26	22.22	22.5
10	64QAM	1	49	22.12	22.14	22.12	
10	64QAM	25	0	21.17	21.19	21.19	
10	64QAM	25	12	21.15	21.19	21.17	
10	64QAM	25	25	21.21	21.20	21.18	21.5
10	64QAM	50	0	21.07	21.11	21.09	
10	256QAM	1	0	19.10	19.16	19.12	
10	256QAM	1	0	19.10	19.16	19.12	



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10	256QAM	1	25	19.21	19.24	19.24	19.5
10	256QAM	1	49	19.20	19.20	19.15	
10	256QAM	25	0	19.00	19.04	18.97	
10	256QAM	25	12	19.11	19.16	19.13	
10	256QAM	25	25	19.12	19.16	19.11	
10	256QAM	50	0	19.09	19.16	19.05	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	24.16	24.19	24.10	24.5
5	QPSK	1	12	24.12	24.13	24.08	
5	QPSK	1	24	24.08	24.10	24.06	
5	QPSK	12	0	23.10	23.15	23.07	23.5
5	QPSK	12	7	23.15	23.15	23.14	
5	QPSK	12	13	23.11	23.17	23.08	
5	QPSK	25	0	23.09	23.09	23.03	
5	16QAM	1	0	22.85	22.87	22.85	23.5
5	16QAM	1	12	22.85	22.85	22.83	
5	16QAM	1	24	22.83	22.85	22.78	
5	16QAM	12	0	22.10	22.11	22.11	22.5
5	16QAM	12	7	22.14	22.15	22.10	
5	16QAM	12	13	22.11	22.11	22.10	
5	16QAM	25	0	22.05	22.08	22.07	22.5
5	64QAM	1	0	22.33	22.39	22.35	
5	64QAM	1	12	22.25	22.27	22.20	
5	64QAM	1	24	22.13	22.15	22.11	21.5
5	64QAM	12	0	21.20	21.21	21.16	
5	64QAM	12	7	21.16	21.21	21.13	
5	64QAM	12	13	21.20	21.19	21.15	
5	64QAM	25	0	21.09	21.13	21.10	19.5
5	256QAM	1	0	19.12	19.13	19.08	
5	256QAM	1	12	19.16	19.21	19.24	
5	256QAM	1	24	19.18	19.19	19.13	19.5
5	256QAM	12	0	19.00	19.02	18.98	
5	256QAM	12	7	19.10	19.17	19.09	
5	256QAM	12	13	19.12	19.13	19.13	19.5
5	256QAM	25	0	19.10	19.19	19.05	
Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	24.14	24.19	24.11	24.5
3	QPSK	1	8	24.08	24.14	24.07	
3	QPSK	1	14	24.03	24.05	24.06	
3	QPSK	8	0	23.10	23.14	23.10	23.5
3	QPSK	8	4	23.16	23.13	23.14	
3	QPSK	8	7	23.13	23.13	23.11	
3	QPSK	15	0	23.07	23.12	23.03	23.5
3	16QAM	1	0	22.82	22.88	22.81	
3	16QAM	1	8	22.84	22.85	22.81	
3	16QAM	1	14	22.85	22.86	22.79	22.5
3	16QAM	8	0	22.11	22.11	22.09	
3	16QAM	8	4	22.10	22.14	22.13	
3	16QAM	8	7	22.12	22.12	22.10	
3	16QAM	15	0	22.06	22.06	22.07	22.5
3	64QAM	1	0	22.34	22.37	22.33	
3	64QAM	1	8	22.26	22.24	22.20	
3	64QAM	1	14	22.11	22.13	22.12	
3	64QAM	8	0	21.22	21.21	21.17	21.5
3	64QAM	8	4	21.15	21.19	21.14	
3	64QAM	8	7	21.18	21.19	21.16	
3	64QAM	15	0	21.10	21.10	21.10	
3	256QAM	1	0	19.06	19.17	19.12	19.5
3	256QAM	1	8	19.17	19.25	19.24	
3	256QAM	1	14	19.19	19.19	19.09	
3	256QAM	8	0	19.01	19.01	19.01	19.5



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3	256QAM	8	4	19.14	19.12	19.08	
3	256QAM	8	7	19.11	19.14	19.08	
3	256QAM	15	0	19.07	19.14	19.06	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	24.21	24.22	24.19	24.5
1.4	QPSK	1	3	24.20	24.21	24.18	
1.4	QPSK	1	5	24.21	24.22	24.19	
1.4	QPSK	3	0	24.17	24.18	24.15	
1.4	QPSK	3	1	24.15	24.16	24.13	
1.4	QPSK	3	3	24.14	24.15	24.12	
1.4	QPSK	6	0	23.22	23.23	23.20	23.5
1.4	16QAM	1	0	22.97	22.98	22.95	23.5
1.4	16QAM	1	3	22.93	22.94	22.91	
1.4	16QAM	1	5	22.91	22.92	22.89	
1.4	16QAM	3	0	23.46	23.47	23.44	
1.4	16QAM	3	1	23.44	23.45	23.42	
1.4	16QAM	3	3	23.47	23.48	23.45	22.5
1.4	16QAM	6	0	22.28	22.29	22.26	
1.4	64QAM	1	0	22.18	22.19	22.16	22.5
1.4	64QAM	1	3	22.24	22.25	22.22	
1.4	64QAM	1	5	22.19	22.20	22.17	
1.4	64QAM	3	0	22.46	22.47	22.44	
1.4	64QAM	3	1	22.42	22.43	22.40	
1.4	64QAM	3	3	22.43	22.44	22.41	21.5
1.4	64QAM	6	0	21.27	21.28	21.25	
1.4	256QAM	1	0	19.09	19.17	19.07	19.5
1.4	256QAM	1	3	19.18	19.25	19.19	
1.4	256QAM	1	5	19.18	19.21	19.10	
1.4	256QAM	3	0	18.97	19.00	19.00	
1.4	256QAM	3	1	19.10	19.13	19.11	
1.4	256QAM	3	3	19.14	19.14	19.11	19.5
1.4	256QAM	6	0	19.08	19.19	19.09	

<LTE Band 70_Ant Main_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					133047		
Frequency (MHz)					1702.5		
15	QPSK	1	0		23.99		24.5
15	QPSK	1	37		23.80		
15	QPSK	1	74		23.78		
15	QPSK	36	0		22.66		23.5
15	QPSK	36	20		22.89		
15	QPSK	36	39		22.85		
15	QPSK	75	0		22.72		23.5
15	16QAM	1	0		22.98		
15	16QAM	1	37		22.85		
15	16QAM	1	74		22.94		22.5
15	16QAM	36	0		21.74		
15	16QAM	36	20		21.78		
15	16QAM	36	39		21.76		22.5
15	16QAM	75	0		21.78		
15	64QAM	1	0		22.19		
15	64QAM	1	37		21.76		21.5
15	64QAM	1	74		21.69		
15	64QAM	36	0		20.83		
15	64QAM	36	20		20.78		19.5
15	64QAM	36	39		20.84		
15	64QAM	75	0		20.75		
15	256QAM	1	0		18.27		19.5
15	256QAM	1	37		18.33		
15	256QAM	1	74		18.14		
15	256QAM	36	0		18.75		19.5
15	256QAM	36	20		18.82		
15	256QAM	36	39		18.81		
15	256QAM	75	0		18.72		
Channel				133022	133047	133072	Tune-up limit (dBm)
Frequency (MHz)				1700	1702.5	1705	
10	QPSK	1	0	23.81	23.79	23.73	24.5
10	QPSK	1	25	23.59	23.67	23.53	
10	QPSK	1	49	23.61	23.59	23.45	
10	QPSK	25	0	22.51	22.48	22.39	24.5
10	QPSK	25	12	22.66	22.71	22.52	
10	QPSK	25	25	22.69	22.65	22.55	
10	QPSK	50	0	22.56	22.55	22.43	24.5
10	16QAM	1	0	22.75	22.81	22.69	
10	16QAM	1	25	22.63	22.69	22.60	
10	16QAM	1	49	22.74	22.78	22.67	24.5
10	16QAM	25	0	21.56	21.60	21.42	
10	16QAM	25	12	21.53	21.66	21.53	
10	16QAM	25	25	21.63	21.63	21.49	24.5
10	16QAM	50	0	21.57	21.62	21.45	
10	64QAM	1	0	21.94	22.08	21.86	
10	64QAM	1	25	21.59	21.58	21.49	24.5
10	64QAM	1	49	21.46	21.55	21.35	
10	64QAM	25	0	20.69	20.65	20.55	
10	64QAM	25	12	20.56	20.63	20.46	24.5
10	64QAM	25	25	20.67	20.64	20.56	

10	64QAM	50	0	20.56	20.63	20.49	
10	256QAM	1	0	18.01	18.11	17.96	24.5
10	256QAM	1	25	18.15	18.14	18.02	
10	256QAM	1	49	18.00	17.99	17.92	
10	256QAM	25	0	18.58	18.63	18.44	24.5
10	256QAM	25	12	18.63	18.67	18.51	
10	256QAM	25	25	18.64	18.67	18.49	
10	256QAM	50	0	18.54	18.53	18.47	
Channel				132997	133047	133097	Tune-up limit (dBm)
Frequency (MHz)				1697.5	1702.5	1707.5	
5	QPSK	1	0	23.77	23.81	23.64	24.5
5	QPSK	1	12	23.62	23.70	23.50	
5	QPSK	1	24	23.62	23.61	23.42	
5	QPSK	12	0	22.43	22.54	22.43	24.5
5	QPSK	12	7	22.69	22.76	22.61	
5	QPSK	12	13	22.67	22.69	22.60	
5	QPSK	25	0	22.53	22.58	22.36	
5	16QAM	1	0	22.80	22.85	22.65	24.5
5	16QAM	1	12	22.61	22.66	22.52	
5	16QAM	1	24	22.79	22.82	22.66	
5	16QAM	12	0	21.53	21.61	21.41	24.5
5	16QAM	12	7	21.59	21.62	21.49	
5	16QAM	12	13	21.56	21.56	21.54	
5	16QAM	25	0	21.64	21.62	21.43	
5	64QAM	1	0	22.02	22.07	21.87	24.5
5	64QAM	1	12	21.58	21.60	21.50	
5	64QAM	1	24	21.55	21.50	21.32	
5	64QAM	12	0	20.66	20.71	20.55	24.5
5	64QAM	12	7	20.61	20.61	20.47	
5	64QAM	12	13	20.66	20.71	20.57	
5	64QAM	25	0	20.54	20.60	20.45	
5	256QAM	1	0	18.01	18.07	18.00	24.5
5	256QAM	1	12	18.16	18.19	18.08	
5	256QAM	1	24	17.98	18.00	17.83	
5	256QAM	12	0	18.58	18.57	18.44	24.5
5	256QAM	12	7	18.67	18.65	18.53	
5	256QAM	12	13	18.63	18.68	18.58	
5	256QAM	25	0	18.52	18.58	18.43	

<LTE Band 70_Ant MIMO2_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					133047		
Frequency (MHz)					1702.5		
15	QPSK	1	0		23.04		24.5
15	QPSK	1	37		22.93		
15	QPSK	1	74		22.79		
15	QPSK	36	0		22.05		23.5
15	QPSK	36	20		22.01		
15	QPSK	36	39		22.04		
15	QPSK	75	0		21.89		
15	16QAM	1	0		22.28		23.5
15	16QAM	1	37		22.03		
15	16QAM	1	74		21.94		
15	16QAM	36	0		20.99		22.5
15	16QAM	36	20		20.98		



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15	16QAM	36	39		20.92		
15	16QAM	75	0		21.01		
15	64QAM	1	0		21.48		
15	64QAM	1	37		20.90		22.5
15	64QAM	1	74		21.03		
15	64QAM	36	0		20.05		
15	64QAM	36	20		20.04		21.5
15	64QAM	36	39		20.08		
15	64QAM	75	0		20.01		
15	256QAM	1	0		17.55		19.5
15	256QAM	1	37		17.54		
15	256QAM	1	74		17.34		
15	256QAM	36	0		17.96		19.5
15	256QAM	36	20		18.02		
15	256QAM	36	39		18.05		
15	256QAM	75	0		17.96		
Channel				133022	133047	133072	Tune-up limit (dBm)
Frequency (MHz)				1700	1702.5	1705	
10	QPSK	1	0	22.57	22.68	22.68	24.5
10	QPSK	1	25	22.48	22.54	22.53	
10	QPSK	1	49	22.44	22.44	22.36	
10	QPSK	25	0	21.61	21.64	21.74	24.5
10	QPSK	25	12	21.57	21.60	21.59	
10	QPSK	25	25	21.56	21.68	21.65	
10	QPSK	50	0	21.43	21.59	21.45	
10	16QAM	1	0	21.94	21.85	21.88	24.5
10	16QAM	1	25	21.68	21.70	21.59	
10	16QAM	1	49	21.55	21.52	21.55	
10	16QAM	25	0	20.69	20.68	20.62	24.5
10	16QAM	25	12	20.60	20.68	20.65	
10	16QAM	25	25	20.55	20.56	20.59	
10	16QAM	50	0	20.53	20.65	20.58	
10	64QAM	1	0	21.02	21.13	21.14	24.5
10	64QAM	1	25	20.52	20.45	20.50	
10	64QAM	1	49	20.62	20.71	20.58	
10	64QAM	25	0	19.66	19.70	19.61	24.5
10	64QAM	25	12	19.62	19.70	19.62	
10	64QAM	25	25	19.75	19.75	19.61	
10	64QAM	50	0	19.67	19.68	19.62	
10	256QAM	1	0	17.15	17.10	17.23	24.5
10	256QAM	1	25	17.13	17.18	17.13	
10	256QAM	1	49	16.90	16.96	16.88	
10	256QAM	25	0	17.57	17.56	17.57	24.5
10	256QAM	25	12	17.58	17.66	17.56	
10	256QAM	25	25	17.70	17.73	17.70	
10	256QAM	50	0	17.51	17.63	17.49	
Channel				132997	133047	133097	Tune-up limit (dBm)
Frequency (MHz)				1697.5	1702.5	1707.5	
5	QPSK	1	0	22.66	22.74	22.72	24.5
5	QPSK	1	12	22.56	22.63	22.58	
5	QPSK	1	24	22.48	22.49	22.43	
5	QPSK	12	0	21.67	21.73	21.77	24.5
5	QPSK	12	7	21.65	21.68	21.63	
5	QPSK	12	13	21.62	21.73	21.74	
5	QPSK	25	0	21.47	21.67	21.51	
5	16QAM	1	0	22.03	21.89	21.97	24.5



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5	16QAM	1	12	21.71	21.75	21.67	
5	16QAM	1	24	21.63	21.61	21.61	
5	16QAM	12	0	20.74	20.75	20.67	
5	16QAM	12	7	20.64	20.71	20.68	24.5
5	16QAM	12	13	20.59	20.63	20.63	
5	16QAM	25	0	20.60	20.71	20.65	
5	64QAM	1	0	21.07	21.18	21.19	24.5
5	64QAM	1	12	20.58	20.54	20.53	
5	64QAM	1	24	20.71	20.78	20.63	
5	64QAM	12	0	19.72	19.75	19.68	24.5
5	64QAM	12	7	19.65	19.77	19.65	
5	64QAM	12	13	19.79	19.82	19.68	
5	64QAM	25	0	19.70	19.71	19.66	24.5
5	256QAM	1	0	17.22	17.17	17.28	
5	256QAM	1	12	17.21	17.26	17.19	
5	256QAM	1	24	16.99	17.04	16.91	24.5
5	256QAM	12	0	17.63	17.62	17.61	
5	256QAM	12	7	17.65	17.73	17.61	
5	256QAM	12	13	17.75	17.78	17.74	24.5
5	256QAM	25	0	17.58	17.66	17.55	

<LTE Band 71_Ant Main_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				133222	133297	133372	24.5
Frequency (MHz)				673	680.5	688	
20	QPSK	1	0	23.25	23.29	23.43	
20	QPSK	1	49	23.48	23.50	23.46	23.5
20	QPSK	1	99	23.47	23.44	23.42	
20	QPSK	50	0	22.45	22.49	22.50	
20	QPSK	50	24	22.59	22.60	22.55	22.5
20	QPSK	50	50	22.56	22.54	22.52	
20	QPSK	100	0	22.55	22.56	22.47	
20	16QAM	1	0	22.58	22.61	22.60	22.5
20	16QAM	1	49	22.74	22.79	22.79	
20	16QAM	1	99	22.80	22.80	22.83	
20	16QAM	50	0	21.48	21.53	21.52	22.5
20	16QAM	50	24	21.57	21.55	21.54	
20	16QAM	50	50	21.63	21.59	21.55	
20	16QAM	100	0	21.54	21.53	21.51	22.5
20	64QAM	1	0	21.44	21.56	21.60	
20	64QAM	1	49	21.75	21.74	21.76	
20	64QAM	1	99	21.61	21.67	21.64	21.5
20	64QAM	50	0	20.43	20.53	20.52	
20	64QAM	50	24	20.54	20.55	20.53	
20	64QAM	50	50	20.59	20.58	20.55	19.5
20	64QAM	100	0	20.55	20.53	20.51	
20	256QAM	1	0	18.42	18.40	18.34	
20	256QAM	1	49	18.22	18.21	18.15	19.5
20	256QAM	1	99	18.12	18.13	18.08	
20	256QAM	50	0	18.25	18.26	18.19	
20	256QAM	50	24	18.22	18.25	18.22	24.5
20	256QAM	50	50	18.22	18.21	18.15	
20	256QAM	100	0	18.19	18.17	18.15	
Channel				133197	133297	133397	24.5
Frequency (MHz)				670.5	680.5	690.5	
15	QPSK	1	0	23.11	23.21	23.41	
15	QPSK	1	37	23.37	23.32	23.28	24.5
15	QPSK	1	74	23.30	23.28	23.36	



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15	QPSK	36	0	22.38	22.42	22.34	23.5
15	QPSK	36	20	22.49	22.50	22.34	
15	QPSK	36	39	22.48	22.41	22.42	
15	QPSK	75	0	22.42	22.37	22.35	
15	16QAM	1	0	22.40	22.53	22.46	23.5
15	16QAM	1	37	22.56	22.64	22.66	
15	16QAM	1	74	22.69	22.71	22.71	
15	16QAM	36	0	21.43	21.37	21.37	
15	16QAM	36	20	21.51	21.51	21.45	22.5
15	16QAM	36	39	21.55	21.46	21.38	
15	16QAM	75	0	21.36	21.35	21.41	
15	64QAM	1	0	21.27	21.49	21.42	
15	64QAM	1	37	21.66	21.66	21.66	22.5
15	64QAM	1	74	21.44	21.49	21.56	
15	64QAM	36	0	20.39	20.47	20.35	
15	64QAM	36	20	20.41	20.44	20.38	
15	64QAM	36	39	20.54	20.48	20.44	21.5
15	64QAM	75	0	20.40	20.49	20.46	
15	256QAM	1	0	18.38	18.36	18.23	
15	256QAM	1	37	18.19	18.11	18.07	
15	256QAM	1	74	18.09	18.02	17.95	19.5
15	256QAM	36	0	18.22	18.20	18.14	
15	256QAM	36	20	18.16	18.15	18.09	
15	256QAM	36	39	18.15	18.16	18.09	
15	256QAM	75	0	18.16	18.05	18.07	Tune-up limit (dBm)
Channel				133172	133297	133422	
Frequency (MHz)				668	680.5	693	
10	QPSK	1	0	23.15	23.11	23.43	24.5
10	QPSK	1	25	23.35	23.32	23.34	
10	QPSK	1	49	23.38	23.31	23.24	
10	QPSK	25	0	22.30	22.46	22.34	
10	QPSK	25	12	22.38	22.51	22.42	23.5
10	QPSK	25	25	22.46	22.56	22.37	
10	QPSK	50	0	22.51	22.34	22.32	
10	16QAM	1	0	22.55	22.47	22.47	
10	16QAM	1	25	22.71	22.69	22.62	23.5
10	16QAM	1	49	22.73	22.64	22.71	
10	16QAM	25	0	21.36	21.40	21.42	
10	16QAM	25	12	21.51	21.52	21.47	
10	16QAM	25	25	21.56	21.48	21.47	22.5
10	16QAM	50	0	21.46	21.40	21.34	
10	64QAM	1	0	21.37	21.44	21.52	
10	64QAM	1	25	21.66	21.64	21.60	
10	64QAM	1	49	21.48	21.61	21.53	22.5
10	64QAM	25	0	20.38	20.46	20.42	
10	64QAM	25	12	20.40	20.52	20.38	
10	64QAM	25	25	20.56	20.51	20.40	
10	64QAM	50	0	20.41	20.40	20.44	21.5
10	256QAM	1	0	18.33	18.31	18.26	
10	256QAM	1	25	18.09	18.17	18.04	
10	256QAM	1	49	18.05	18.00	17.97	
10	256QAM	25	0	18.13	18.13	18.08	19.5
10	256QAM	25	12	18.17	18.16	18.18	
10	256QAM	25	25	18.17	18.08	18.07	
10	256QAM	50	0	18.15	18.11	18.11	
Channel				133147	133297	133447	Tune-up limit (dBm)
Frequency (MHz)				665.5	680.5	695.5	
5	QPSK	1	0	23.17	23.25	23.41	
5	QPSK	1	12	23.32	23.37	23.28	
5	QPSK	1	24	23.38	23.27	23.33	24.5
5	QPSK	12	0	22.32	22.45	22.37	
5	QPSK	12	7	22.49	22.51	22.38	
5	QPSK	12	13	22.42	22.47	22.49	



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5	QPSK	25	0	22.48	22.41	22.32	23.5
5	16QAM	1	0	22.54	22.47	22.55	
5	16QAM	1	12	22.59	22.63	22.75	
5	16QAM	1	24	22.65	22.71	22.68	
5	16QAM	12	0	21.45	21.37	21.37	22.5
5	16QAM	12	7	21.49	21.43	21.49	
5	16QAM	12	13	21.56	21.46	21.49	
5	16QAM	25	0	21.40	21.45	21.45	
5	64QAM	1	0	21.29	21.49	21.51	22.5
5	64QAM	1	12	21.61	21.61	21.60	
5	64QAM	1	24	21.57	21.57	21.52	
5	64QAM	12	0	20.30	20.36	20.45	
5	64QAM	12	7	20.37	20.40	20.36	21.5
5	64QAM	12	13	20.47	20.45	20.42	
5	64QAM	25	0	20.49	20.39	20.48	
5	256QAM	1	0	18.36	18.31	18.24	
5	256QAM	1	12	18.09	18.15	18.07	19.5
5	256QAM	1	24	18.03	18.05	18.02	
5	256QAM	12	0	18.12	18.21	18.10	
5	256QAM	12	7	18.18	18.16	18.09	
5	256QAM	12	13	18.12	18.08	18.02	19.5
5	256QAM	25	0	18.13	18.05	18.03	

<LTE Band 2_Ant Main_Sensor ON>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	17.29	17.24	17.16	17.9
20	QPSK	1	49	17.27	17.23	17.20	
20	QPSK	1	99	17.13	17.15	17.11	
20	QPSK	50	0	16.26	16.18	16.16	16.9
20	QPSK	50	24	16.30	16.27	16.24	
20	QPSK	50	50	16.26	16.22	16.18	
20	QPSK	100	0	16.30	16.22	16.21	
20	16QAM	1	0	16.49	16.45	16.47	16.9
20	16QAM	1	49	16.46	16.42	16.43	
20	16QAM	1	99	16.50	16.43	16.45	
20	16QAM	50	0	15.29	15.20	15.19	15.9
20	16QAM	50	24	15.35	15.30	15.30	
20	16QAM	50	50	15.30	15.21	15.21	
20	16QAM	100	0	15.29	15.22	15.23	
20	64QAM	1	0	15.44	15.45	15.45	15.9
20	64QAM	1	49	15.50	15.48	15.38	
20	64QAM	1	99	15.36	15.36	15.39	
20	64QAM	50	0	14.28	14.20	14.19	14.9
20	64QAM	50	24	14.33	14.28	14.28	
20	64QAM	50	50	14.26	14.23	14.22	
20	64QAM	100	0	14.28	14.22	14.25	
20	256QAM	1	0	12.21	12.16	12.19	12.9
20	256QAM	1	49	12.32	12.27	12.30	
20	256QAM	1	99	12.16	12.11	12.14	
20	256QAM	50	0	12.11	12.06	12.09	12.9
20	256QAM	50	24	12.20	12.15	12.18	
20	256QAM	50	50	12.10	12.05	12.08	
20	256QAM	100	0	12.19	12.14	12.17	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	17.13	17.13	16.97	17.9
15	QPSK	1	37	17.09	17.06	17.07	
15	QPSK	1	74	16.99	16.98	16.93	



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15	QPSK	36	0	16.06	16.03	15.97	16.9
15	QPSK	36	20	16.10	16.14	16.05	
15	QPSK	36	39	16.08	16.10	16.03	
15	QPSK	75	0	16.13	16.11	16.03	
15	16QAM	1	0	16.36	16.34	16.29	16.9
15	16QAM	1	37	16.33	16.32	16.32	
15	16QAM	1	74	16.34	16.28	16.25	
15	16QAM	36	0	15.13	15.00	15.01	15.9
15	16QAM	36	20	15.22	15.13	15.10	
15	16QAM	36	39	15.18	15.10	15.05	
15	16QAM	75	0	15.18	15.06	15.10	
15	64QAM	1	0	15.31	15.27	15.30	
15	64QAM	1	37	15.36	15.38	15.20	15.9
15	64QAM	1	74	15.21	15.24	15.23	
15	64QAM	36	0	14.09	14.05	14.01	
15	64QAM	36	20	14.15	14.14	14.13	14.9
15	64QAM	36	39	14.07	14.13	14.05	
15	64QAM	75	0	14.08	14.09	14.09	
15	256QAM	1	0	12.01	11.96	11.99	12.9
15	256QAM	1	37	12.15	12.13	12.13	
15	256QAM	1	74	11.96	11.91	12.02	
15	256QAM	36	0	11.98	11.96	11.89	12.9
15	256QAM	36	20	12.09	12.04	12.01	
15	256QAM	36	39	12.00	11.95	11.95	
15	256QAM	75	0	12.00	12.02	12.01	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	17.15	17.13	17.00	17.9
10	QPSK	1	25	17.13	17.07	17.05	
10	QPSK	1	49	16.98	16.95	16.91	
10	QPSK	25	0	16.09	16.00	15.96	16.9
10	QPSK	25	12	16.11	16.09	16.05	
10	QPSK	25	25	16.09	16.06	16.03	
10	QPSK	50	0	16.13	16.04	16.08	
10	16QAM	1	0	16.29	16.34	16.27	16.9
10	16QAM	1	25	16.29	16.25	16.29	
10	16QAM	1	49	16.36	16.23	16.28	
10	16QAM	25	0	15.12	15.00	15.09	15.9
10	16QAM	25	12	15.19	15.14	15.18	
10	16QAM	25	25	15.20	15.11	15.07	
10	16QAM	50	0	15.12	15.09	15.12	
10	64QAM	1	0	15.32	15.28	15.25	15.9
10	64QAM	1	25	15.39	15.33	15.25	
10	64QAM	1	49	15.22	15.21	15.20	
10	64QAM	25	0	14.08	14.06	14.05	14.9
10	64QAM	25	12	14.16	14.08	14.11	
10	64QAM	25	25	14.16	14.04	14.02	
10	64QAM	50	0	14.08	14.08	14.11	
10	256QAM	1	0	12.06	12.04	12.00	12.9
10	256QAM	1	25	12.16	12.07	12.17	
10	256QAM	1	49	11.97	11.95	11.96	
10	256QAM	25	0	11.96	11.95	11.90	12.9
10	256QAM	25	12	12.03	11.98	12.03	
10	256QAM	25	25	11.94	11.93	11.92	
10	256QAM	50	0	12.08	12.00	11.98	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	17.18	17.13	16.98	17.9
5	QPSK	1	12	17.07	17.13	17.10	
5	QPSK	1	24	16.96	16.98	16.97	
5	QPSK	12	0	16.08	16.08	15.98	16.9
5	QPSK	12	7	16.17	16.14	16.11	
5	QPSK	12	13	16.06	16.04	16.02	



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5	QPSK	25	0	16.12	16.03	16.01	16.9
5	16QAM	1	0	16.37	16.35	16.32	
5	16QAM	1	12	16.33	16.29	16.32	
5	16QAM	1	24	16.31	16.26	16.27	
5	16QAM	12	0	15.09	15.05	15.02	15.9
5	16QAM	12	7	15.18	15.19	15.17	
5	16QAM	12	13	15.13	15.08	15.09	
5	16QAM	25	0	15.13	15.04	15.07	
5	64QAM	1	0	15.31	15.29	15.30	15.9
5	64QAM	1	12	15.33	15.35	15.26	
5	64QAM	1	24	15.26	15.17	15.23	
5	64QAM	12	0	14.09	14.00	14.06	
5	64QAM	12	7	14.21	14.08	14.12	14.9
5	64QAM	12	13	14.12	14.13	14.06	
5	64QAM	25	0	14.17	14.03	14.11	
5	256QAM	1	0	12.01	12.00	11.99	
5	256QAM	1	12	12.17	12.10	12.13	12.9
5	256QAM	1	24	12.05	11.93	11.98	
5	256QAM	12	0	11.94	11.86	11.89	
5	256QAM	12	7	12.00	12.05	12.05	
5	256QAM	12	13	11.92	11.89	11.95	12.9
5	256QAM	25	0	12.00	11.98	12.00	
Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	17.09	17.11	16.99	17.9
3	QPSK	1	8	17.09	17.07	17.09	
3	QPSK	1	14	16.99	17.05	16.98	
3	QPSK	8	0	16.09	16.02	15.98	
3	QPSK	8	4	16.12	16.17	16.14	16.9
3	QPSK	8	7	16.14	16.08	16.06	
3	QPSK	15	0	16.20	16.04	16.08	
3	16QAM	1	0	16.37	16.28	16.32	
3	16QAM	1	8	16.29	16.22	16.30	16.9
3	16QAM	1	14	16.33	16.32	16.30	
3	16QAM	8	0	15.11	15.07	15.07	
3	16QAM	8	4	15.19	15.12	15.13	
3	16QAM	8	7	15.12	15.10	15.01	15.9
3	16QAM	15	0	15.11	15.03	15.04	
3	64QAM	1	0	15.29	15.31	15.26	
3	64QAM	1	8	15.36	15.36	15.22	
3	64QAM	1	14	15.18	15.25	15.24	14.9
3	64QAM	8	0	14.10	14.08	14.07	
3	64QAM	8	4	14.23	14.14	14.18	
3	64QAM	8	7	14.14	14.06	14.02	
3	64QAM	15	0	14.14	14.10	14.08	12.9
3	256QAM	1	0	12.02	12.00	12.07	
3	256QAM	1	8	12.12	12.07	12.15	
3	256QAM	1	14	11.97	12.00	12.02	
3	256QAM	8	0	11.98	11.91	11.95	12.9
3	256QAM	8	4	12.08	12.00	12.01	
3	256QAM	8	7	11.96	11.92	11.91	
3	256QAM	15	0	12.03	11.95	11.97	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	17.21	17.15	17.07	17.9
1.4	QPSK	1	3	17.21	17.15	17.09	
1.4	QPSK	1	5	17.18	17.12	17.10	
1.4	QPSK	3	0	17.22	17.15	17.11	
1.4	QPSK	3	1	17.21	17.14	17.10	
1.4	QPSK	3	3	17.23	17.15	17.12	
1.4	QPSK	6	0	16.27	16.17	16.14	16.9
1.4	16QAM	1	0	16.46	16.44	16.43	16.9
1.4	16QAM	1	3	16.50	16.50	16.44	



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1.4	16QAM	1	5	16.46	16.46	16.42	
1.4	16QAM	3	0	16.34	16.33	16.31	
1.4	16QAM	3	1	16.33	16.31	16.26	
1.4	16QAM	3	3	16.37	16.24	16.23	
1.4	16QAM	6	0	15.32	15.23	15.22	15.9
1.4	64QAM	1	0	15.46	15.42	15.38	15.9
1.4	64QAM	1	3	15.46	15.37	15.40	
1.4	64QAM	1	5	15.43	15.42	15.36	
1.4	64QAM	3	0	15.38	15.30	15.30	
1.4	64QAM	3	1	15.37	15.35	15.29	
1.4	64QAM	3	3	15.39	15.33	15.33	14.9
1.4	64QAM	6	0	14.32	14.24	14.20	
1.4	256QAM	1	0	11.97	11.95	12.09	12.9
1.4	256QAM	1	3	12.06	12.07	12.12	
1.4	256QAM	1	5	11.97	11.92	11.97	
1.4	256QAM	3	0	11.95	11.83	11.91	
1.4	256QAM	3	1	12.04	11.98	11.94	
1.4	256QAM	3	3	11.95	11.93	11.84	
1.4	256QAM	6	0	12.00	11.88	11.97	12.9

**<LTE Band 2_Ant MIMO2_Sensor ON>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	21.05	21.18	21.12	
20	QPSK	1	49	20.90	21.13	20.97	22.7
20	QPSK	1	99	20.91	21.07	20.93	
20	QPSK	50	0	20.86	21.09	20.95	
20	QPSK	50	24	20.94	21.17	21.02	22.7
20	QPSK	50	50	20.88	21.11	20.96	
20	QPSK	100	0	20.89	21.10	21.01	
20	16QAM	1	0	21.02	21.16	21.10	22.7
20	16QAM	1	49	20.97	21.15	21.03	
20	16QAM	1	99	20.93	21.09	21.01	
20	16QAM	50	0	20.89	21.07	20.97	21.7
20	16QAM	50	24	20.99	21.14	21.04	
20	16QAM	50	50	20.88	21.10	20.99	
20	16QAM	100	0	20.90	21.11	21.01	21.7
20	64QAM	1	0	20.72	20.89	20.77	
20	64QAM	1	49	20.65	20.88	20.82	
20	64QAM	1	99	20.74	20.90	20.80	21.5
20	64QAM	50	0	20.44	20.63	20.57	
20	64QAM	50	24	20.52	20.74	20.64	
20	64QAM	50	50	20.55	20.72	20.65	19.5
20	64QAM	100	0	20.52	20.71	20.60	
20	256QAM	1	0	18.05	18.24	18.09	
20	256QAM	1	49	18.22	18.35	18.19	19.5
20	256QAM	1	99	18.04	18.23	18.08	
20	256QAM	50	0	18.45	18.60	18.50	
20	256QAM	50	24	18.52	18.72	18.57	19.5
20	256QAM	50	50	18.58	18.71	18.59	
20	256QAM	100	0	18.48	18.69	18.59	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	21.01	21.13	21.08	
15	QPSK	1	37	20.85	21.07	20.90	22.7
15	QPSK	1	74	20.83	21.00	20.83	
15	QPSK	36	0	20.81	21.01	20.89	
15	QPSK	36	20	20.86	21.12	20.98	22.7
15	QPSK	36	39	20.78	21.04	20.87	
15	QPSK	75	0	20.82	21.02	20.93	
15	16QAM	1	0	20.97	21.08	21.04	22.7
15	16QAM	1	37	20.87	21.08	20.98	
15	16QAM	1	74	20.86	21.00	20.95	
15	16QAM	36	0	20.81	21.01	20.89	21.7
15	16QAM	36	20	20.89	21.09	20.97	
15	16QAM	36	39	20.80	21.06	20.89	
15	16QAM	75	0	20.86	21.05	20.91	21.7
15	64QAM	1	0	20.69	20.81	20.73	
15	64QAM	1	37	20.55	20.81	20.77	
15	64QAM	1	74	20.69	20.82	20.73	21.5
15	64QAM	36	0	20.36	20.60	20.51	
15	64QAM	36	20	20.42	20.70	20.59	
15	64QAM	36	39	20.49	20.68	20.59	19.5
15	64QAM	75	0	20.43	20.63	20.51	
15	256QAM	1	0	17.99	18.17	18.03	
15	256QAM	1	37	18.12	18.30	18.14	19.5
15	256QAM	1	74	17.99	18.19	17.98	
15	256QAM	36	0	18.39	18.53	18.46	



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15	256QAM	36	20	18.44	18.66	18.47	
15	256QAM	36	39	18.50	18.62	18.50	
15	256QAM	75	0	18.41	18.62	18.53	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	20.97	21.09	21.07	22.7
10	QPSK	1	25	20.83	21.08	20.92	
10	QPSK	1	49	20.86	20.99	20.85	
10	QPSK	25	0	20.77	21.00	20.92	22.7
10	QPSK	25	12	20.84	21.10	20.96	
10	QPSK	25	25	20.79	21.02	20.89	
10	QPSK	50	0	20.81	21.07	20.96	
10	16QAM	1	0	20.94	21.13	21.06	22.7
10	16QAM	1	25	20.94	21.12	20.96	
10	16QAM	1	49	20.86	21.03	20.94	
10	16QAM	25	0	20.83	21.04	20.87	21.7
10	16QAM	25	12	20.91	21.11	20.99	
10	16QAM	25	25	20.80	21.02	20.96	
10	16QAM	50	0	20.82	21.02	20.96	
10	64QAM	1	0	20.62	20.82	20.73	21.7
10	64QAM	1	25	20.62	20.84	20.78	
10	64QAM	1	49	20.65	20.85	20.76	
10	64QAM	25	0	20.41	20.60	20.52	21.5
10	64QAM	25	12	20.46	20.70	20.56	
10	64QAM	25	25	20.50	20.64	20.56	
10	64QAM	50	0	20.44	20.66	20.57	
10	256QAM	1	0	17.95	18.17	18.01	19.5
10	256QAM	1	25	18.16	18.31	18.12	
10	256QAM	1	49	17.98	18.13	18.05	
10	256QAM	25	0	18.35	18.53	18.40	19.5
10	256QAM	25	12	18.42	18.64	18.48	
10	256QAM	25	25	18.51	18.67	18.51	
10	256QAM	50	0	18.41	18.59	18.50	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	20.97	21.09	21.07	22.7
5	QPSK	1	12	20.85	21.03	20.89	
5	QPSK	1	24	20.84	21.02	20.87	
5	QPSK	12	0	20.77	21.02	20.92	22.7
5	QPSK	12	7	20.86	21.12	20.95	
5	QPSK	12	13	20.84	21.01	20.86	
5	QPSK	25	0	20.84	21.05	20.98	
5	16QAM	1	0	20.93	21.13	21.04	22.7
5	16QAM	1	12	20.91	21.07	20.95	
5	16QAM	1	24	20.89	21.05	20.91	
5	16QAM	12	0	20.84	20.98	20.88	21.7
5	16QAM	12	7	20.94	21.07	21.00	
5	16QAM	12	13	20.80	21.02	20.96	
5	16QAM	25	0	20.86	21.05	20.97	
5	64QAM	1	0	20.63	20.85	20.73	21.7
5	64QAM	1	12	20.60	20.79	20.77	
5	64QAM	1	24	20.70	20.81	20.77	
5	64QAM	12	0	20.36	20.54	20.48	21.5
5	64QAM	12	7	20.43	20.66	20.58	
5	64QAM	12	13	20.48	20.62	20.55	
5	64QAM	25	0	20.45	20.63	20.56	
5	256QAM	1	0	17.97	18.21	18.00	19.5
5	256QAM	1	12	18.13	18.26	18.10	
5	256QAM	1	24	18.00	18.14	18.03	
5	256QAM	12	0	18.41	18.56	18.47	19.5
5	256QAM	12	7	18.42	18.66	18.50	
5	256QAM	12	13	18.52	18.66	18.53	
5	256QAM	25	0	18.44	18.65	18.52	



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Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	21.01	21.13	21.03	22.7
3	QPSK	1	8	20.85	21.06	20.89	
3	QPSK	1	14	20.87	21.02	20.90	
3	QPSK	8	0	20.82	21.02	20.90	22.7
3	QPSK	8	4	20.86	21.12	20.95	
3	QPSK	8	7	20.78	21.06	20.89	
3	QPSK	15	0	20.79	21.04	20.91	22.7
3	16QAM	1	0	20.96	21.09	21.04	
3	16QAM	1	8	20.94	21.08	21.00	
3	16QAM	1	14	20.83	21.06	20.98	21.7
3	16QAM	8	0	20.81	21.00	20.90	
3	16QAM	8	4	20.90	21.07	20.97	
3	16QAM	8	7	20.80	21.02	20.96	21.7
3	16QAM	15	0	20.87	21.08	20.98	
3	64QAM	1	0	20.64	20.83	20.67	
3	64QAM	1	8	20.62	20.84	20.73	21.7
3	64QAM	1	14	20.71	20.87	20.73	
3	64QAM	8	0	20.39	20.54	20.54	21.5
3	64QAM	8	4	20.43	20.67	20.54	
3	64QAM	8	7	20.52	20.67	20.57	
3	64QAM	15	0	20.43	20.66	20.55	19.5
3	256QAM	1	0	17.98	18.20	17.99	
3	256QAM	1	8	18.17	18.29	18.09	
3	256QAM	1	14	17.95	18.19	18.02	19.5
3	256QAM	8	0	18.39	18.56	18.44	
3	256QAM	8	4	18.44	18.63	18.50	
3	256QAM	8	7	18.52	18.66	18.52	19.5
3	256QAM	15	0	18.44	18.60	18.55	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	20.96	21.10	21.02	22.7
1.4	QPSK	1	3	20.84	21.03	20.93	
1.4	QPSK	1	5	20.86	21.03	20.84	
1.4	QPSK	3	0	20.76	20.99	20.89	22.7
1.4	QPSK	3	1	20.87	21.12	20.96	
1.4	QPSK	3	3	20.78	21.03	20.92	
1.4	QPSK	6	0	20.85	21.00	20.91	22.7
1.4	16QAM	1	0	20.93	21.13	21.05	22.7
1.4	16QAM	1	3	20.89	21.05	20.95	
1.4	16QAM	1	5	20.90	21.03	20.95	
1.4	16QAM	3	0	20.83	21.00	20.90	21.7
1.4	16QAM	3	1	20.90	21.10	21.00	
1.4	16QAM	3	3	20.78	21.07	20.93	
1.4	16QAM	6	0	20.82	21.03	20.95	21.7
1.4	64QAM	1	0	20.62	20.86	20.73	
1.4	64QAM	1	3	20.56	20.84	20.75	
1.4	64QAM	1	5	20.67	20.80	20.75	21.7
1.4	64QAM	3	0	20.41	20.56	20.54	
1.4	64QAM	3	1	20.46	20.68	20.61	
1.4	64QAM	3	3	20.49	20.63	20.55	21.5
1.4	64QAM	6	0	20.44	20.63	20.52	
1.4	256QAM	1	0	18.00	18.15	18.03	
1.4	256QAM	1	3	18.19	18.30	18.09	19.5
1.4	256QAM	1	5	17.98	18.19	18.00	
1.4	256QAM	3	0	18.38	18.55	18.40	
1.4	256QAM	3	1	18.44	18.62	18.47	19.5
1.4	256QAM	3	3	18.51	18.61	18.49	
1.4	256QAM	6	0	18.39	18.63	18.55	

<LTE Band 4_Ant Main_Sensor ON>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	16.75	16.79	16.79	
20	QPSK	1	49	16.82	16.80	16.80	17.9
20	QPSK	1	99	16.67	16.66	16.65	
20	QPSK	50	0	15.83	15.86	15.85	
20	QPSK	50	24	15.90	15.89	15.81	16.9
20	QPSK	50	50	15.85	15.83	15.82	
20	QPSK	100	0	15.87	15.84	15.77	
20	16QAM	1	0	15.94	15.89	15.90	16.9
20	16QAM	1	49	15.89	15.99	15.85	
20	16QAM	1	99	15.92	15.96	15.94	
20	16QAM	50	0	14.85	14.87	14.87	15.9
20	16QAM	50	24	14.95	14.97	14.84	
20	16QAM	50	50	14.86	14.84	14.82	
20	16QAM	100	0	14.90	14.90	14.79	15.9
20	64QAM	1	0	14.85	14.83	14.77	
20	64QAM	1	49	14.86	14.84	14.82	
20	64QAM	1	99	14.95	14.92	14.87	14.9
20	64QAM	50	0	13.85	13.86	13.87	
20	64QAM	50	24	13.92	13.94	13.86	
20	64QAM	50	50	13.86	13.87	13.84	12.9
20	64QAM	100	0	13.89	13.90	13.81	
20	256QAM	1	0	11.67	11.68	11.60	
20	256QAM	1	49	11.86	11.87	11.79	12.9
20	256QAM	1	99	11.69	11.70	11.62	
20	256QAM	50	0	11.59	11.60	11.52	12.9
20	256QAM	50	24	11.68	11.69	11.61	
20	256QAM	50	50	11.63	11.64	11.56	
20	256QAM	100	0	11.62	11.63	11.55	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	16.56	16.61	16.69	
15	QPSK	1	37	16.66	16.66	16.63	17.9
15	QPSK	1	74	16.57	16.48	16.50	
15	QPSK	36	0	15.66	15.75	15.68	16.9
15	QPSK	36	20	15.75	15.72	15.68	
15	QPSK	36	39	15.74	15.71	15.71	
15	QPSK	75	0	15.70	15.74	15.58	16.9
15	16QAM	1	0	15.74	15.75	15.75	
15	16QAM	1	37	15.72	15.79	15.67	
15	16QAM	1	74	15.77	15.85	15.74	15.9
15	16QAM	36	0	14.70	14.74	14.68	
15	16QAM	36	20	14.78	14.80	14.64	
15	16QAM	36	39	14.75	14.68	14.62	15.9
15	16QAM	75	0	14.73	14.79	14.68	
15	64QAM	1	0	14.66	14.71	14.64	
15	64QAM	1	37	14.70	14.67	14.70	14.9
15	64QAM	1	74	14.78	14.76	14.71	
15	64QAM	36	0	13.67	13.74	13.70	
15	64QAM	36	20	13.75	13.78	13.73	12.9
15	64QAM	36	39	13.70	13.75	13.74	
15	64QAM	75	0	13.78	13.78	13.67	
15	256QAM	1	0	11.52	11.57	11.49	12.9
15	256QAM	1	37	11.66	11.74	11.67	
15	256QAM	1	74	11.54	11.50	11.50	
15	256QAM	36	0	11.47	11.45	11.32	12.9



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15	256QAM	36	20	11.58	11.49	11.51	
15	256QAM	36	39	11.49	11.47	11.42	
15	256QAM	75	0	11.43	11.49	11.37	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	16.61	16.67	16.69	17.9
10	QPSK	1	25	16.62	16.66	16.63	
10	QPSK	1	49	16.53	16.54	16.52	
10	QPSK	25	0	15.70	15.70	15.69	16.9
10	QPSK	25	12	15.79	15.72	15.70	
10	QPSK	25	25	15.69	15.73	15.62	
10	QPSK	50	0	15.70	15.71	15.66	
10	16QAM	1	0	15.83	15.75	15.80	16.9
10	16QAM	1	25	15.77	15.89	15.65	
10	16QAM	1	49	15.74	15.80	15.81	
10	16QAM	25	0	14.74	14.72	14.70	15.9
10	16QAM	25	12	14.80	14.79	14.74	
10	16QAM	25	25	14.69	14.68	14.66	
10	16QAM	50	0	14.74	14.80	14.62	
10	64QAM	1	0	14.70	14.69	14.67	15.9
10	64QAM	1	25	14.68	14.69	14.62	
10	64QAM	1	49	14.84	14.76	14.74	
10	64QAM	25	0	13.72	13.75	13.75	14.9
10	64QAM	25	12	13.82	13.79	13.69	
10	64QAM	25	25	13.72	13.76	13.64	
10	64QAM	50	0	13.70	13.78	13.69	
10	256QAM	1	0	11.53	11.52	11.41	12.9
10	256QAM	1	25	11.67	11.74	11.60	
10	256QAM	1	49	11.57	11.55	11.46	
10	256QAM	25	0	11.42	11.41	11.35	12.9
10	256QAM	25	12	11.56	11.55	11.42	
10	256QAM	25	25	11.50	11.53	11.40	
10	256QAM	50	0	11.44	11.46	11.37	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	16.56	16.66	16.59	17.9
5	QPSK	1	12	16.68	16.65	16.62	
5	QPSK	1	24	16.52	16.55	16.47	
5	QPSK	12	0	15.71	15.76	15.68	16.9
5	QPSK	12	7	15.77	15.76	15.71	
5	QPSK	12	13	15.68	15.64	15.62	
5	QPSK	25	0	15.68	15.71	15.58	
5	16QAM	1	0	15.83	15.75	15.77	16.9
5	16QAM	1	12	15.78	15.85	15.75	
5	16QAM	1	24	15.77	15.81	15.80	
5	16QAM	12	0	14.74	14.67	14.77	15.9
5	16QAM	12	7	14.85	14.87	14.64	
5	16QAM	12	13	14.69	14.66	14.70	
5	16QAM	25	0	14.74	14.73	14.59	
5	64QAM	1	0	14.75	14.73	14.59	15.9
5	64QAM	1	12	14.69	14.73	14.71	
5	64QAM	1	24	14.82	14.81	14.69	
5	64QAM	12	0	13.68	13.75	13.75	14.9
5	64QAM	12	7	13.73	13.79	13.75	
5	64QAM	12	13	13.69	13.75	13.68	
5	64QAM	25	0	13.79	13.78	13.64	
5	256QAM	1	0	11.52	11.49	11.45	12.9
5	256QAM	1	12	11.73	11.67	11.66	
5	256QAM	1	24	11.57	11.50	11.48	
5	256QAM	12	0	11.39	11.49	11.42	12.9
5	256QAM	12	7	11.58	11.51	11.45	
5	256QAM	12	13	11.53	11.45	11.36	
5	256QAM	25	0	11.47	11.49	11.42	



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Channel				19965	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	16.61	16.63	16.63	17.9
3	QPSK	1	8	16.70	16.65	16.67	
3	QPSK	1	14	16.57	16.48	16.50	
3	QPSK	8	0	15.63	15.76	15.65	16.9
3	QPSK	8	4	15.77	15.70	15.62	
3	QPSK	8	7	15.72	15.64	15.70	
3	QPSK	15	0	15.76	15.71	15.62	16.9
3	16QAM	1	0	15.77	15.70	15.78	
3	16QAM	1	8	15.79	15.83	15.73	
3	16QAM	1	14	15.75	15.86	15.84	15.9
3	16QAM	8	0	14.74	14.67	14.70	
3	16QAM	8	4	14.85	14.79	14.68	
3	16QAM	8	7	14.68	14.72	14.72	15.9
3	16QAM	15	0	14.77	14.76	14.69	
3	64QAM	1	0	14.72	14.68	14.57	
3	64QAM	1	8	14.71	14.71	14.67	15.9
3	64QAM	1	14	14.85	14.76	14.69	
3	64QAM	8	0	13.68	13.70	13.77	
3	64QAM	8	4	13.82	13.77	13.72	14.9
3	64QAM	8	7	13.68	13.69	13.65	
3	64QAM	15	0	13.74	13.74	13.62	
3	256QAM	1	0	11.47	11.51	11.40	12.9
3	256QAM	1	8	11.74	11.76	11.61	
3	256QAM	1	14	11.56	11.58	11.52	
3	256QAM	8	0	11.47	11.49	11.40	12.9
3	256QAM	8	4	11.55	11.49	11.42	
3	256QAM	8	7	11.51	11.44	11.40	
3	256QAM	15	0	11.44	11.49	11.40	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	16.78	16.77	16.77	17.9
1.4	QPSK	1	3	16.76	16.77	16.75	
1.4	QPSK	1	5	16.78	16.77	16.76	
1.4	QPSK	3	0	16.79	16.79	16.77	
1.4	QPSK	3	1	16.78	16.79	16.78	
1.4	QPSK	3	3	16.79	16.76	16.77	
1.4	QPSK	6	0	15.84	15.81	15.80	16.9
1.4	16QAM	1	0	15.95	15.92	15.96	16.9
1.4	16QAM	1	3	15.94	15.92	15.99	
1.4	16QAM	1	5	15.96	15.97	16.00	
1.4	16QAM	3	0	15.91	15.90	15.89	
1.4	16QAM	3	1	15.93	15.89	15.87	
1.4	16QAM	3	3	15.95	15.92	15.88	
1.4	16QAM	6	0	14.94	14.91	14.88	15.9
1.4	64QAM	1	0	14.91	14.92	14.92	15.9
1.4	64QAM	1	3	14.98	14.97	14.95	
1.4	64QAM	1	5	14.95	14.99	15.00	
1.4	64QAM	3	0	14.92	14.95	14.96	
1.4	64QAM	3	1	14.99	15.00	14.97	
1.4	64QAM	3	3	14.99	14.98	14.96	
1.4	64QAM	6	0	13.94	13.90	13.86	14.9
1.4	256QAM	1	0	11.45	11.47	11.40	12.9
1.4	256QAM	1	3	11.73	11.78	11.56	
1.4	256QAM	1	5	11.57	11.59	11.48	
1.4	256QAM	3	0	11.45	11.51	11.34	
1.4	256QAM	3	1	11.50	11.42	11.36	
1.4	256QAM	3	3	11.47	11.39	11.35	
1.4	256QAM	6	0	11.40	11.47	11.33	12.9



<LTE Band 4_Ant MIMO2_Sensor ON>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	20.15	20.28	20.21	
20	QPSK	1	49	20.06	20.22	20.15	21.6
20	QPSK	1	99	19.92	20.08	19.94	
20	QPSK	50	0	20.00	20.18	20.07	
20	QPSK	50	24	20.05	20.26	20.11	21.6
20	QPSK	50	50	20.04	20.21	20.09	
20	QPSK	100	0	20.09	20.24	20.14	
20	16QAM	1	0	19.99	20.17	20.09	21.6
20	16QAM	1	49	20.01	20.23	20.13	
20	16QAM	1	99	19.92	20.13	20.02	
20	16QAM	50	0	20.01	20.20	20.11	21.6
20	16QAM	50	24	20.06	20.25	20.10	
20	16QAM	50	50	20.04	20.22	20.15	
20	16QAM	100	0	20.09	20.23	20.09	21.6
20	64QAM	1	0	20.01	20.15	20.08	
20	64QAM	1	49	19.88	20.04	19.92	
20	64QAM	1	99	19.81	20.01	19.91	20.6
20	64QAM	50	0	19.58	19.75	19.63	
20	64QAM	50	24	19.71	19.88	19.75	
20	64QAM	50	50	19.69	19.82	19.72	18.6
20	64QAM	100	0	19.66	19.83	19.75	
20	256QAM	1	0	17.05	17.20	17.12	
20	256QAM	1	49	17.11	17.31	17.17	18.6
20	256QAM	1	99	17.23	17.36	17.23	
20	256QAM	50	0	17.50	17.66	17.49	18.6
20	256QAM	50	24	17.66	17.81	17.73	
20	256QAM	50	50	17.71	17.85	17.77	
20	256QAM	100	0	17.63	17.84	17.70	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	20.01	20.22	20.11	
15	QPSK	1	37	19.97	20.19	20.03	21.6
15	QPSK	1	74	19.87	19.98	19.88	
15	QPSK	36	0	19.97	20.10	19.91	21.6
15	QPSK	36	20	19.97	20.22	20.02	
15	QPSK	36	39	19.90	20.07	19.95	
15	QPSK	75	0	20.00	20.11	20.05	21.6
15	16QAM	1	0	19.91	20.06	20.02	
15	16QAM	1	37	19.88	20.17	20.05	
15	16QAM	1	74	19.80	20.02	19.97	21.6
15	16QAM	36	0	19.93	20.15	19.98	
15	16QAM	36	20	19.94	20.19	19.94	
15	16QAM	36	39	20.00	20.07	20.10	21.6
15	16QAM	75	0	19.96	20.07	19.94	
15	64QAM	1	0	19.87	20.01	20.05	
15	64QAM	1	37	19.74	19.88	19.86	21.6
15	64QAM	1	74	19.70	19.97	19.80	
15	64QAM	36	0	19.42	19.61	19.49	
15	64QAM	36	20	19.61	19.79	19.71	20.6
15	64QAM	36	39	19.61	19.73	19.57	
15	64QAM	75	0	19.58	19.69	19.68	
15	256QAM	1	0	16.94	17.11	17.06	18.6
15	256QAM	1	37	17.04	17.19	17.13	
15	256QAM	1	74	17.15	17.26	17.13	
15	256QAM	36	0	17.45	17.54	17.37	18.6
15	256QAM	36	20	17.57	17.73	17.65	



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15	256QAM	36	39	17.57	17.69	17.66	Tune-up limit (dBm)
15	256QAM	75	0	17.58	17.81	17.55	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	20.06	20.16	20.09	21.6
10	QPSK	1	25	20.01	20.14	20.09	
10	QPSK	1	49	19.77	20.05	19.83	
10	QPSK	25	0	19.90	20.14	19.93	21.6
10	QPSK	25	12	19.94	20.19	19.98	
10	QPSK	25	25	19.92	20.17	19.96	
10	QPSK	50	0	20.03	20.19	20.00	
10	16QAM	1	0	19.86	20.02	20.03	21.6
10	16QAM	1	25	19.95	20.19	20.08	
10	16QAM	1	49	19.80	20.08	19.89	
10	16QAM	25	0	19.98	20.10	20.04	21.6
10	16QAM	25	12	20.01	20.11	19.98	
10	16QAM	25	25	19.88	20.12	20.03	
10	16QAM	50	0	20.03	20.12	20.01	
10	64QAM	1	0	19.85	20.07	19.96	21.6
10	64QAM	1	25	19.80	20.00	19.83	
10	64QAM	1	49	19.75	19.91	19.80	
10	64QAM	25	0	19.53	19.59	19.58	20.6
10	64QAM	25	12	19.55	19.85	19.62	
10	64QAM	25	25	19.58	19.68	19.61	
10	64QAM	50	0	19.63	19.80	19.61	
10	256QAM	1	0	16.94	17.05	16.96	18.6
10	256QAM	1	25	16.95	17.21	17.01	
10	256QAM	1	49	17.09	17.22	17.12	
10	256QAM	25	0	17.37	17.51	17.40	18.6
10	256QAM	25	12	17.52	17.73	17.61	
10	256QAM	25	25	17.60	17.71	17.64	
10	256QAM	50	0	17.50	17.79	17.57	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	20.10	20.15	20.16	21.6
5	QPSK	1	12	19.93	20.11	20.09	
5	QPSK	1	24	19.80	19.92	19.90	
5	QPSK	12	0	19.92	20.02	19.98	21.6
5	QPSK	12	7	20.01	20.12	20.01	
5	QPSK	12	13	19.97	20.17	20.00	
5	QPSK	25	0	19.93	20.18	20.03	
5	16QAM	1	0	19.93	20.11	20.05	21.6
5	16QAM	1	12	19.91	20.16	20.06	
5	16QAM	1	24	19.83	20.03	19.86	
5	16QAM	12	0	19.91	20.17	20.00	21.6
5	16QAM	12	7	19.97	20.12	19.94	
5	16QAM	12	13	19.96	20.06	20.06	
5	16QAM	25	0	20.02	20.11	20.04	
5	64QAM	1	0	19.86	19.99	20.03	21.6
5	64QAM	1	12	19.77	19.94	19.86	
5	64QAM	1	24	19.66	19.90	19.80	
5	64QAM	12	0	19.42	19.59	19.59	20.6
5	64QAM	12	7	19.58	19.75	19.71	
5	64QAM	12	13	19.58	19.77	19.67	
5	64QAM	25	0	19.57	19.73	19.67	
5	256QAM	1	0	16.94	17.15	17.01	18.6
5	256QAM	1	12	17.08	17.16	17.05	
5	256QAM	1	24	17.09	17.29	17.15	
5	256QAM	12	0	17.44	17.51	17.43	18.6
5	256QAM	12	7	17.60	17.67	17.67	
5	256QAM	12	13	17.66	17.70	17.72	
5	256QAM	25	0	17.47	17.81	17.55	
Channel				19965	20175	20385	Tune-up limit



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Frequency (MHz)				1711.5	1732.5	1753.5	(dBm)
3	QPSK	1	0	20.03	20.20	20.11	21.6
3	QPSK	1	8	19.97	20.11	20.07	
3	QPSK	1	14	19.82	19.92	19.79	
3	QPSK	8	0	19.90	20.12	19.94	21.6
3	QPSK	8	4	20.01	20.16	20.05	
3	QPSK	8	7	19.99	20.14	19.97	
3	QPSK	15	0	20.01	20.21	20.04	
3	16QAM	1	0	19.89	20.12	19.96	21.6
3	16QAM	1	8	19.85	20.14	20.05	
3	16QAM	1	14	19.82	20.02	19.94	
3	16QAM	8	0	19.95	20.17	19.98	21.6
3	16QAM	8	4	20.02	20.10	20.07	
3	16QAM	8	7	20.01	20.06	20.05	
3	16QAM	15	0	20.02	20.09	20.00	
3	64QAM	1	0	19.89	20.09	20.02	21.6
3	64QAM	1	8	19.85	19.92	19.76	
3	64QAM	1	14	19.72	19.91	19.76	
3	64QAM	8	0	19.46	19.69	19.47	20.6
3	64QAM	8	4	19.55	19.85	19.67	
3	64QAM	8	7	19.55	19.71	19.63	
3	64QAM	15	0	19.50	19.68	19.64	
3	256QAM	1	0	16.93	17.16	17.02	18.6
3	256QAM	1	8	16.97	17.26	17.05	
3	256QAM	1	14	17.19	17.22	17.10	
3	256QAM	8	0	17.38	17.53	17.46	18.6
3	256QAM	8	4	17.55	17.76	17.60	
3	256QAM	8	7	17.67	17.78	17.63	
3	256QAM	15	0	17.50	17.76	17.64	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	20.04	20.21	20.07	21.6
1.4	QPSK	1	3	19.97	20.18	20.03	
1.4	QPSK	1	5	19.86	19.94	19.80	
1.4	QPSK	3	0	19.89	20.11	20.02	
1.4	QPSK	3	1	19.97	20.21	20.07	
1.4	QPSK	3	3	19.99	20.15	20.02	
1.4	QPSK	6	0	19.99	20.08	20.06	21.6
1.4	16QAM	1	0	19.93	20.04	19.95	21.6
1.4	16QAM	1	3	19.96	20.07	20.03	
1.4	16QAM	1	5	19.77	20.09	19.93	
1.4	16QAM	3	0	19.86	20.09	19.95	
1.4	16QAM	3	1	20.01	20.10	20.01	
1.4	16QAM	3	3	19.88	20.12	20.11	
1.4	16QAM	6	0	20.05	20.12	20.05	21.6
1.4	64QAM	1	0	19.89	20.11	20.03	21.6
1.4	64QAM	1	3	19.82	19.99	19.86	
1.4	64QAM	1	5	19.70	19.86	19.86	
1.4	64QAM	3	0	19.62	19.60	19.68	
1.4	64QAM	3	1	19.87	19.76	19.79	
1.4	64QAM	3	3	19.78	19.70	19.61	
1.4	64QAM	6	0	19.58	19.68	19.66	20.6
1.4	256QAM	1	0	16.94	17.14	17.02	18.6
1.4	256QAM	1	3	17.03	17.27	17.03	
1.4	256QAM	1	5	17.18	17.28	17.12	
1.4	256QAM	3	0	17.35	17.58	17.39	
1.4	256QAM	3	1	17.54	17.68	17.57	
1.4	256QAM	3	3	17.63	17.71	17.65	
1.4	256QAM	6	0	17.59	17.69	17.60	18.6

<LTE Band 5_Ant Main_Sensor ON>



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Report No. : FA521318-03

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20450	20525	20600	
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	23.39	23.37	23.38	23.7
10	QPSK	1	25	23.36	23.34	23.37	
10	QPSK	1	49	23.35	23.34	23.34	
10	QPSK	25	0	22.42	22.40	22.42	22.7
10	QPSK	25	12	22.51	22.51	22.41	
10	QPSK	25	25	22.47	22.45	22.48	
10	QPSK	50	0	22.44	22.43	22.37	
10	16QAM	1	0	22.69	22.59	22.66	22.7
10	16QAM	1	25	22.65	22.63	22.64	
10	16QAM	1	49	22.69	22.60	22.67	
10	16QAM	25	0	21.46	21.46	21.46	21.7
10	16QAM	25	12	21.54	21.53	21.46	
10	16QAM	25	25	21.46	21.48	21.50	
10	16QAM	50	0	21.49	21.49	21.42	
10	64QAM	1	0	21.58	21.58	21.60	21.7
10	64QAM	1	25	21.65	21.64	21.53	
10	64QAM	1	49	21.60	21.47	21.66	
10	64QAM	25	0	20.41	20.45	20.42	20.7
10	64QAM	25	12	20.54	20.53	20.47	
10	64QAM	25	25	20.48	20.47	20.48	
10	64QAM	50	0	20.48	20.46	20.44	
10	256QAM	1	0	18.39	18.39	18.32	18.7
10	256QAM	1	25	18.63	18.65	18.63	
10	256QAM	1	49	18.32	18.34	18.32	
10	256QAM	25	0	18.42	18.42	18.39	18.7
10	256QAM	25	12	18.50	18.51	18.47	
10	256QAM	25	25	18.44	18.47	18.41	
10	256QAM	50	0	18.48	18.49	18.45	
Channel				20425	20525	20625	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	23.16	23.32	23.34	23.7
5	QPSK	1	12	23.20	23.23	23.28	
5	QPSK	1	24	23.15	23.25	23.15	
5	QPSK	12	0	22.30	22.24	22.38	22.7
5	QPSK	12	7	22.42	22.48	22.37	
5	QPSK	12	13	22.40	22.32	22.43	
5	QPSK	25	0	22.26	22.25	22.24	
5	16QAM	1	0	22.50	22.50	22.57	22.7
5	16QAM	1	12	22.56	22.64	22.61	
5	16QAM	1	24	22.56	22.41	22.64	
5	16QAM	12	0	21.26	21.36	21.26	21.7
5	16QAM	12	7	21.45	21.36	21.41	
5	16QAM	12	13	21.43	21.35	21.31	
5	16QAM	25	0	21.31	21.38	21.28	
5	64QAM	1	0	21.49	21.39	21.53	21.7
5	64QAM	1	12	21.59	21.49	21.42	
5	64QAM	1	24	21.44	21.40	21.62	
5	64QAM	12	0	20.38	20.40	20.34	20.7
5	64QAM	12	7	20.39	20.49	20.29	
5	64QAM	12	13	20.33	20.38	20.45	
5	64QAM	25	0	20.33	20.35	20.33	
5	256QAM	1	0	18.27	18.22	18.16	18.7
5	256QAM	1	12	18.49	18.47	18.46	
5	256QAM	1	24	18.14	18.19	18.12	
5	256QAM	12	0	18.27	18.24	18.28	18.7
5	256QAM	12	7	18.40	18.32	18.35	
5	256QAM	12	13	18.32	18.32	18.30	
5	256QAM	25	0	18.36	18.31	18.30	



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Channel				20415	20525	20635	Tune-up limit (dBm)
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	23.30	23.29	23.28	23.7
3	QPSK	1	8	23.25	23.14	23.29	
3	QPSK	1	14	23.27	23.16	23.18	
3	QPSK	8	0	22.26	22.36	22.29	22.7
3	QPSK	8	4	22.45	22.33	22.21	
3	QPSK	8	7	22.31	22.25	22.40	
3	QPSK	15	0	22.29	22.33	22.33	
3	16QAM	1	0	22.56	22.55	22.58	22.7
3	16QAM	1	8	22.57	22.58	22.67	
3	16QAM	1	14	22.60	22.56	22.68	
3	16QAM	8	0	21.27	21.30	21.34	21.7
3	16QAM	8	4	21.51	21.41	21.39	
3	16QAM	8	7	21.29	21.45	21.41	
3	16QAM	15	0	21.37	21.33	21.38	
3	64QAM	1	0	21.52	21.43	21.57	21.7
3	64QAM	1	8	21.48	21.58	21.42	
3	64QAM	1	14	21.57	21.42	21.47	
3	64QAM	8	0	20.26	20.26	20.25	20.7
3	64QAM	8	4	20.39	20.37	20.37	
3	64QAM	8	7	20.28	20.28	20.35	
3	64QAM	15	0	20.41	20.32	20.28	
3	256QAM	1	0	18.20	18.27	18.21	18.7
3	256QAM	1	8	18.52	18.53	18.51	
3	256QAM	1	14	18.16	18.15	18.13	
3	256QAM	8	0	18.29	18.30	18.19	18.7
3	256QAM	8	4	18.36	18.35	18.32	
3	256QAM	8	7	18.29	18.30	18.25	
3	256QAM	15	0	18.31	18.30	18.32	
Channel				20407	20525	20643	Tune-up limit (dBm)
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	23.36	23.29	23.31	23.7
1.4	QPSK	1	3	23.37	23.32	23.36	
1.4	QPSK	1	5	23.30	23.26	23.30	
1.4	QPSK	3	0	23.34	23.29	23.33	
1.4	QPSK	3	1	23.34	23.35	23.34	
1.4	QPSK	3	3	23.32	23.29	23.32	
1.4	QPSK	6	0	22.41	22.37	22.39	22.7
1.4	16QAM	1	0	22.70	22.60	22.66	22.7
1.4	16QAM	1	3	22.70	22.68	22.64	
1.4	16QAM	1	5	22.65	22.58	22.64	
1.4	16QAM	3	0	22.49	22.43	22.48	
1.4	16QAM	3	1	22.50	22.49	22.45	
1.4	16QAM	3	3	22.44	22.42	22.49	
1.4	16QAM	6	0	21.45	21.46	21.47	21.7
1.4	64QAM	1	0	21.58	21.50	21.60	21.7
1.4	64QAM	1	3	21.61	21.65	21.62	
1.4	64QAM	1	5	21.57	21.49	21.57	
1.4	64QAM	3	0	21.48	21.45	21.50	
1.4	64QAM	3	1	21.52	21.55	21.57	
1.4	64QAM	3	3	21.51	21.49	21.50	
1.4	64QAM	6	0	20.48	20.43	20.48	20.7
1.4	256QAM	1	0	18.23	18.20	18.16	18.7
1.4	256QAM	1	3	18.50	18.51	18.53	
1.4	256QAM	1	5	18.12	18.19	18.12	
1.4	256QAM	3	0	18.31	18.23	18.28	
1.4	256QAM	3	1	18.40	18.35	18.34	
1.4	256QAM	3	3	18.24	18.30	18.30	
1.4	256QAM	6	0	18.36	18.39	18.26	18.7



<LTE Band 7_Ant Main_Sensor ON>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	15.33	15.52	15.56	
20	QPSK	1	49	15.39	15.67	15.68	16.7
20	QPSK	1	99	15.29	15.65	15.63	
20	QPSK	50	0	14.37	14.57	14.55	
20	QPSK	50	24	14.54	14.70	14.71	15.7
20	QPSK	50	50	14.46	14.62	14.63	
20	QPSK	100	0	14.48	14.58	14.59	
20	16QAM	1	0	14.60	14.79	14.83	15.7
20	16QAM	1	49	14.77	14.96	14.92	
20	16QAM	1	99	14.78	15.00	15.00	
20	16QAM	50	0	13.40	13.57	13.58	14.7
20	16QAM	50	24	13.51	13.65	13.66	
20	16QAM	50	50	13.58	13.75	13.75	
20	16QAM	100	0	13.51	13.62	13.61	14.7
20	64QAM	1	0	13.55	13.74	13.73	
20	64QAM	1	49	13.70	13.92	13.92	
20	64QAM	1	99	13.73	13.96	13.96	13.7
20	64QAM	50	0	12.43	12.62	12.61	
20	64QAM	50	24	12.55	12.70	12.67	
20	64QAM	50	50	12.59	12.78	12.76	11.7
20	64QAM	100	0	12.53	12.64	12.65	
20	256QAM	1	0	10.78	10.87	10.88	
20	256QAM	1	49	10.86	10.96	10.97	11.7
20	256QAM	1	99	10.83	10.93	10.94	
20	256QAM	50	0	10.71	10.80	10.81	
20	256QAM	50	24	10.76	10.85	10.86	11.7
20	256QAM	50	50	10.73	10.82	10.83	
20	256QAM	100	0	10.69	10.78	10.79	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	15.20	15.38	15.40	
15	QPSK	1	37	15.22	15.48	15.56	16.7
15	QPSK	1	74	15.12	15.48	15.50	
15	QPSK	36	0	14.21	14.44	14.41	15.7
15	QPSK	36	20	14.38	14.60	14.58	
15	QPSK	36	39	14.30	14.48	14.47	
15	QPSK	75	0	14.36	14.48	14.48	15.7
15	16QAM	1	0	14.46	14.64	14.64	
15	16QAM	1	37	14.66	14.82	14.82	
15	16QAM	1	74	14.63	14.81	14.87	14.7
15	16QAM	36	0	13.22	13.38	13.48	
15	16QAM	36	20	13.39	13.51	13.56	
15	16QAM	36	39	13.42	13.62	13.65	14.7
15	16QAM	75	0	13.40	13.44	13.44	
15	64QAM	1	0	13.41	13.59	13.59	
15	64QAM	1	37	13.60	13.74	13.79	13.7
15	64QAM	1	74	13.59	13.76	13.79	
15	64QAM	36	0	12.30	12.50	12.49	
15	64QAM	36	20	12.45	12.50	12.55	11.7
15	64QAM	36	39	12.41	12.60	12.64	
15	64QAM	75	0	12.37	12.50	12.54	
15	256QAM	1	0	10.67	10.73	10.74	11.7
15	256QAM	1	37	10.73	10.81	10.81	
15	256QAM	1	74	10.66	10.83	10.75	
15	256QAM	36	0	10.58	10.63	10.67	11.7



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15	256QAM	36	20	10.62	10.65	10.73	
15	256QAM	36	39	10.63	10.71	10.65	
15	256QAM	75	0	10.58	10.62	10.59	
Channel				20800	21100	21400	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	15.15	15.34	15.46	16.7
10	QPSK	1	25	15.27	15.52	15.48	
10	QPSK	1	49	15.16	15.50	15.51	
10	QPSK	25	0	14.19	14.44	14.42	15.7
10	QPSK	25	12	14.41	14.59	14.60	
10	QPSK	25	25	14.35	14.51	14.48	
10	QPSK	50	0	14.38	14.39	14.40	
10	16QAM	1	0	14.48	14.64	14.71	15.7
10	16QAM	1	25	14.64	14.80	14.76	
10	16QAM	1	49	14.68	14.82	14.87	
10	16QAM	25	0	13.22	13.37	13.41	14.7
10	16QAM	25	12	13.40	13.48	13.47	
10	16QAM	25	25	13.44	13.64	13.61	
10	16QAM	50	0	13.39	13.44	13.51	
10	64QAM	1	0	13.35	13.64	13.54	14.7
10	64QAM	1	25	13.53	13.74	13.82	
10	64QAM	1	49	13.58	13.82	13.76	
10	64QAM	25	0	12.26	12.45	12.50	13.7
10	64QAM	25	12	12.43	12.58	12.57	
10	64QAM	25	25	12.48	12.63	12.61	
10	64QAM	50	0	12.33	12.50	12.49	
10	256QAM	1	0	10.64	10.68	10.76	11.7
10	256QAM	1	25	10.67	10.76	10.87	
10	256QAM	1	49	10.70	10.82	10.83	
10	256QAM	25	0	10.58	10.60	10.63	11.7
10	256QAM	25	12	10.57	10.69	10.73	
10	256QAM	25	25	10.63	10.68	10.72	
10	256QAM	50	0	10.56	10.58	10.60	
Channel				20775	21100	21425	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	15.19	15.41	15.37	16.7
5	QPSK	1	12	15.19	15.55	15.52	
5	QPSK	1	24	15.18	15.48	15.51	
5	QPSK	12	0	14.22	14.37	14.37	15.7
5	QPSK	12	7	14.39	14.52	14.53	
5	QPSK	12	13	14.29	14.46	14.50	
5	QPSK	25	0	14.36	14.44	14.47	
5	16QAM	1	0	14.45	14.64	14.73	15.7
5	16QAM	1	12	14.57	14.84	14.77	
5	16QAM	1	24	14.61	14.84	14.84	
5	16QAM	12	0	13.24	13.37	13.45	14.7
5	16QAM	12	7	13.36	13.46	13.48	
5	16QAM	12	13	13.40	13.56	13.59	
5	16QAM	25	0	13.40	13.49	13.48	
5	64QAM	1	0	13.43	13.63	13.59	14.7
5	64QAM	1	12	13.59	13.82	13.80	
5	64QAM	1	24	13.60	13.81	13.84	
5	64QAM	12	0	12.23	12.52	12.42	13.7
5	64QAM	12	7	12.39	12.54	12.48	
5	64QAM	12	13	12.48	12.65	12.64	
5	64QAM	25	0	12.41	12.54	12.45	
5	256QAM	1	0	10.67	10.67	10.76	11.7
5	256QAM	1	12	10.76	10.86	10.83	
5	256QAM	1	24	10.63	10.76	10.79	
5	256QAM	12	0	10.61	10.64	10.69	11.7
5	256QAM	12	7	10.61	10.68	10.73	
5	256QAM	12	13	10.61	10.71	10.63	
5	256QAM	25	0	10.55	10.67	10.65	

**<LTE Band 7_Ant MIMO2_Sensor ON>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	22.16	22.33	22.31	
20	QPSK	1	49	22.10	22.27	22.23	22.9
20	QPSK	1	99	21.95	22.21	22.18	
20	QPSK	50	0	22.03	22.30	22.25	
20	QPSK	50	24	22.14	22.31	22.26	22.9
20	QPSK	50	50	22.08	22.27	22.20	
20	QPSK	100	0	22.10	22.29	22.22	
20	16QAM	1	0	22.11	22.28	22.16	22.9
20	16QAM	1	49	22.02	22.27	22.22	
20	16QAM	1	99	21.91	22.17	22.15	
20	16QAM	50	0	21.31	21.50	21.40	21.9
20	16QAM	50	24	21.33	21.55	21.49	
20	16QAM	50	50	21.33	21.53	21.49	
20	16QAM	100	0	21.30	21.54	21.50	21.9
20	64QAM	1	0	21.15	21.38	21.30	
20	64QAM	1	49	21.11	21.31	21.29	
20	64QAM	1	99	21.13	21.30	21.21	20.9
20	64QAM	50	0	20.30	20.53	20.42	
20	64QAM	50	24	20.36	20.54	20.42	
20	64QAM	50	50	20.27	20.52	20.42	19.5
20	64QAM	100	0	20.27	20.51	20.47	
20	256QAM	1	0	18.00	18.22	18.18	
20	256QAM	1	49	18.05	18.26	18.17	19.5
20	256QAM	1	99	17.93	18.12	18.01	
20	256QAM	50	0	18.31	18.54	18.45	19.5
20	256QAM	50	24	18.30	18.57	18.48	
20	256QAM	50	50	18.46	18.64	18.53	
20	256QAM	100	0	18.26	18.52	18.40	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	22.09	22.21	22.21	
15	QPSK	1	37	22.02	22.16	22.15	22.9
15	QPSK	1	74	21.86	22.12	22.10	
15	QPSK	36	0	21.90	22.24	22.18	22.9
15	QPSK	36	20	22.06	22.25	22.13	
15	QPSK	36	39	21.94	22.21	22.14	
15	QPSK	75	0	21.96	22.18	22.07	22.9
15	16QAM	1	0	22.04	22.21	22.09	
15	16QAM	1	37	21.88	22.13	22.11	
15	16QAM	1	74	21.80	22.11	22.06	21.9
15	16QAM	36	0	21.22	21.44	21.35	
15	16QAM	36	20	21.26	21.44	21.41	
15	16QAM	36	39	21.19	21.38	21.39	21.9
15	16QAM	75	0	21.22	21.48	21.40	
15	64QAM	1	0	21.00	21.33	21.25	
15	64QAM	1	37	21.00	21.16	21.18	20.9
15	64QAM	1	74	20.98	21.24	21.12	
15	64QAM	36	0	20.17	20.47	20.36	
15	64QAM	36	20	20.24	20.47	20.30	19.5
15	64QAM	36	39	20.21	20.40	20.35	
15	64QAM	75	0	20.22	20.44	20.33	
15	256QAM	1	0	17.93	18.17	18.12	19.5
15	256QAM	1	37	17.95	18.17	18.07	
15	256QAM	1	74	17.82	17.98	17.89	
15	256QAM	36	0	18.23	18.49	18.34	19.5



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15	256QAM	36	20	18.22	18.47	18.36	
15	256QAM	36	39	18.39	18.57	18.38	
15	256QAM	75	0	18.13	18.42	18.35	
Channel				20800	21100	21400	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	22.02	22.24	22.25	22.9
10	QPSK	1	25	21.99	22.12	22.12	
10	QPSK	1	49	21.81	22.16	22.13	
10	QPSK	25	0	21.96	22.20	22.11	22.9
10	QPSK	25	12	22.06	22.24	22.20	
10	QPSK	25	25	21.94	22.19	22.08	
10	QPSK	50	0	22.01	22.16	22.15	
10	16QAM	1	0	22.03	22.14	22.01	22.9
10	16QAM	1	25	21.90	22.14	22.11	
10	16QAM	1	49	21.84	22.09	22.04	
10	16QAM	25	0	21.18	21.37	21.32	21.9
10	16QAM	25	12	21.23	21.43	21.34	
10	16QAM	25	25	21.26	21.39	21.38	
10	16QAM	50	0	21.15	21.39	21.45	
10	64QAM	1	0	21.03	21.23	21.24	21.9
10	64QAM	1	25	21.03	21.26	21.22	
10	64QAM	1	49	21.06	21.15	21.08	
10	64QAM	25	0	20.17	20.40	20.30	20.9
10	64QAM	25	12	20.27	20.49	20.33	
10	64QAM	25	25	20.21	20.42	20.32	
10	64QAM	50	0	20.17	20.40	20.34	
10	256QAM	1	0	17.87	18.14	18.12	19.5
10	256QAM	1	25	17.95	18.21	18.10	
10	256QAM	1	49	17.85	17.98	17.91	
10	256QAM	25	0	18.17	18.42	18.39	19.5
10	256QAM	25	12	18.18	18.43	18.41	
10	256QAM	25	25	18.33	18.50	18.39	
10	256QAM	50	0	18.14	18.38	18.31	
Channel				20775	21100	21425	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	22.09	22.22	22.16	22.9
5	QPSK	1	12	21.99	22.14	22.16	
5	QPSK	1	24	21.90	22.15	22.08	
5	QPSK	12	0	21.88	22.21	22.15	22.9
5	QPSK	12	7	22.05	22.22	22.15	
5	QPSK	12	13	21.95	22.20	22.13	
5	QPSK	25	0	21.98	22.19	22.07	
5	16QAM	1	0	22.04	22.15	22.07	22.9
5	16QAM	1	12	21.87	22.20	22.14	
5	16QAM	1	24	21.85	22.06	22.06	
5	16QAM	12	0	21.24	21.38	21.35	21.9
5	16QAM	12	7	21.21	21.49	21.43	
5	16QAM	12	13	21.27	21.45	21.39	
5	16QAM	25	0	21.23	21.49	21.44	
5	64QAM	1	0	21.04	21.33	21.22	21.9
5	64QAM	1	12	20.99	21.19	21.18	
5	64QAM	1	24	21.03	21.17	21.07	
5	64QAM	12	0	20.19	20.40	20.31	20.9
5	64QAM	12	7	20.27	20.46	20.33	
5	64QAM	12	13	20.18	20.39	20.28	
5	64QAM	25	0	20.12	20.36	20.40	
5	256QAM	1	0	17.89	18.08	18.12	19.5
5	256QAM	1	12	17.91	18.20	18.05	
5	256QAM	1	24	17.78	18.00	17.93	
5	256QAM	12	0	18.26	18.41	18.39	19.5
5	256QAM	12	7	18.24	18.50	18.39	
5	256QAM	12	13	18.38	18.55	18.39	
5	256QAM	25	0	18.13	18.47	18.30	

**<LTE Band 25_Ant Main_Sensor ON>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				26140	26340	26590	
Frequency (MHz)				1860	1880	1905	
20	QPSK	1	0	17.30	17.20	17.25	17.9
20	QPSK	1	49	17.32	17.22	17.33	
20	QPSK	1	99	17.19	17.10	17.14	
20	QPSK	50	0	16.31	16.23	16.32	16.9
20	QPSK	50	24	16.36	16.26	16.37	
20	QPSK	50	50	16.29	16.23	16.22	
20	QPSK	100	0	16.29	16.20	16.30	
20	16QAM	1	0	16.47	16.31	16.45	16.9
20	16QAM	1	49	16.48	16.37	16.46	
20	16QAM	1	99	16.47	16.43	16.39	
20	16QAM	50	0	15.33	15.23	15.23	15.9
20	16QAM	50	24	15.35	15.32	15.28	
20	16QAM	50	50	15.29	15.23	15.25	
20	16QAM	100	0	15.30	15.23	15.25	
20	64QAM	1	0	15.50	15.39	15.38	15.9
20	64QAM	1	49	15.44	15.42	15.42	
20	64QAM	1	99	15.40	15.34	15.38	
20	64QAM	50	0	14.32	14.25	14.22	14.9
20	64QAM	50	24	14.37	14.30	14.29	
20	64QAM	50	50	14.33	14.24	14.23	
20	64QAM	100	0	14.33	14.24	14.23	
20	256QAM	1	0	12.26	12.18	12.17	12.9
20	256QAM	1	49	12.37	12.29	12.28	
20	256QAM	1	99	12.21	12.13	12.12	
20	256QAM	50	0	12.16	12.08	12.07	12.9
20	256QAM	50	24	12.25	12.17	12.16	
20	256QAM	50	50	12.15	12.07	12.06	
20	256QAM	100	0	12.24	12.16	12.15	
Channel				26115	26340	26615	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1907.5	
15	QPSK	1	0	17.19	17.08	17.15	17.9
15	QPSK	1	37	17.22	17.02	17.15	
15	QPSK	1	74	17.09	16.99	16.96	
15	QPSK	36	0	16.14	16.03	16.17	16.9
15	QPSK	36	20	16.23	16.15	16.18	
15	QPSK	36	39	16.12	16.11	16.11	
15	QPSK	75	0	16.12	16.07	16.20	
15	16QAM	1	0	16.36	16.18	16.27	16.9
15	16QAM	1	37	16.35	16.27	16.26	
15	16QAM	1	74	16.36	16.30	16.25	
15	16QAM	36	0	15.16	15.13	15.11	15.9
15	16QAM	36	20	15.23	15.18	15.10	
15	16QAM	36	39	15.11	15.03	15.06	
15	16QAM	75	0	15.15	15.13	15.06	
15	64QAM	1	0	15.32	15.25	15.23	15.9
15	64QAM	1	37	15.31	15.27	15.27	
15	64QAM	1	74	15.29	15.20	15.21	
15	64QAM	36	0	14.12	14.14	14.07	14.9
15	64QAM	36	20	14.23	14.13	14.16	
15	64QAM	36	39	14.14	14.14	14.10	
15	64QAM	75	0	14.14	14.09	14.13	
15	256QAM	1	0	12.10	12.05	12.02	12.9
15	256QAM	1	37	12.25	12.10	12.11	
15	256QAM	1	74	12.08	11.97	11.94	
15	256QAM	36	0	11.97	11.96	11.95	12.9



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15	256QAM	36	20	12.09	12.02	12.02	
15	256QAM	36	39	12.00	11.90	11.90	
15	256QAM	75	0	12.11	11.97	11.99	
Channel				26090	26340	26640	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1910	
10	QPSK	1	0	17.13	17.10	17.10	17.9
10	QPSK	1	25	17.15	17.02	17.18	
10	QPSK	1	49	17.01	16.93	17.01	
10	QPSK	25	0	16.12	16.08	16.14	16.9
10	QPSK	25	12	16.17	16.13	16.23	
10	QPSK	25	25	16.16	16.11	16.03	
10	QPSK	50	0	16.17	16.07	16.15	
10	16QAM	1	0	16.31	16.21	16.31	16.9
10	16QAM	1	25	16.38	16.18	16.35	
10	16QAM	1	49	16.30	16.28	16.21	
10	16QAM	25	0	15.22	15.12	15.07	15.9
10	16QAM	25	12	15.19	15.15	15.13	
10	16QAM	25	25	15.18	15.05	15.06	
10	16QAM	50	0	15.11	15.11	15.11	
10	64QAM	1	0	15.37	15.23	15.19	15.9
10	64QAM	1	25	15.27	15.26	15.25	
10	64QAM	1	49	15.30	15.15	15.23	
10	64QAM	25	0	14.14	14.07	14.03	14.9
10	64QAM	25	12	14.22	14.10	14.17	
10	64QAM	25	25	14.15	14.08	14.13	
10	64QAM	50	0	14.19	14.13	14.03	
10	256QAM	1	0	12.10	11.99	12.05	12.9
10	256QAM	1	25	12.21	12.16	12.10	
10	256QAM	1	49	12.06	12.00	11.97	
10	256QAM	25	0	12.05	11.89	11.92	12.9
10	256QAM	25	12	12.08	12.04	12.01	
10	256QAM	25	25	12.01	11.91	11.95	
10	256QAM	50	0	12.04	12.06	11.97	
Channel				26065	26340	26665	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1912.5	
5	QPSK	1	0	17.13	17.10	17.11	17.9
5	QPSK	1	12	17.14	17.03	17.13	
5	QPSK	1	24	16.99	16.95	17.01	
5	QPSK	12	0	16.16	16.04	16.13	16.9
5	QPSK	12	7	16.16	16.10	16.24	
5	QPSK	12	13	16.09	16.06	16.08	
5	QPSK	25	0	16.18	16.10	16.12	
5	16QAM	1	0	16.28	16.20	16.35	16.9
5	16QAM	1	12	16.38	16.23	16.34	
5	16QAM	1	24	16.27	16.30	16.20	
5	16QAM	12	0	15.14	15.05	15.13	15.9
5	16QAM	12	7	15.22	15.18	15.16	
5	16QAM	12	13	15.13	15.10	15.08	
5	16QAM	25	0	15.12	15.07	15.08	
5	64QAM	1	0	15.34	15.20	15.21	15.9
5	64QAM	1	12	15.26	15.30	15.29	
5	64QAM	1	24	15.25	15.17	15.20	
5	64QAM	12	0	14.19	14.06	14.03	14.9
5	64QAM	12	7	14.26	14.16	14.17	
5	64QAM	12	13	14.17	14.11	14.09	
5	64QAM	25	0	14.17	14.08	14.08	
5	256QAM	1	0	12.10	12.00	11.99	12.9
5	256QAM	1	12	12.23	12.19	12.11	
5	256QAM	1	24	12.11	11.98	11.94	
5	256QAM	12	0	12.03	11.97	11.91	12.9
5	256QAM	12	7	12.12	12.07	11.99	
5	256QAM	12	13	11.96	11.87	11.90	
5	256QAM	25	0	12.13	12.00	12.01	



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Channel				26055	26340	26675	Tune-up limit
Frequency (MHz)				1851.5	1880	1913.5	(dBm)
3	QPSK	1	0	17.13	17.10	17.11	17.9
3	QPSK	1	8	17.15	17.11	17.17	
3	QPSK	1	14	17.02	16.99	16.97	
3	QPSK	8	0	16.19	16.05	16.19	16.9
3	QPSK	8	4	16.20	16.09	16.21	
3	QPSK	8	7	16.16	16.04	16.09	
3	QPSK	15	0	16.16	16.02	16.16	16.9
3	16QAM	1	0	16.30	16.21	16.26	
3	16QAM	1	8	16.32	16.24	16.28	
3	16QAM	1	14	16.34	16.24	16.24	15.9
3	16QAM	8	0	15.13	15.05	15.08	
3	16QAM	8	4	15.21	15.19	15.11	
3	16QAM	8	7	15.10	15.03	15.08	15.9
3	16QAM	15	0	15.17	15.05	15.13	
3	64QAM	1	0	15.35	15.28	15.23	
3	64QAM	1	8	15.31	15.28	15.25	14.9
3	64QAM	1	14	15.25	15.22	15.27	
3	64QAM	8	0	14.15	14.15	14.08	
3	64QAM	8	4	14.18	14.18	14.13	12.9
3	64QAM	8	7	14.14	14.05	14.11	
3	64QAM	15	0	14.16	14.10	14.05	
3	256QAM	1	0	12.07	12.06	12.05	12.9
3	256QAM	1	8	12.26	12.10	12.10	
3	256QAM	1	14	12.05	12.03	11.96	
3	256QAM	8	0	11.96	11.88	11.87	12.9
3	256QAM	8	4	12.06	12.05	12.00	
3	256QAM	8	7	12.01	11.94	11.88	
3	256QAM	15	0	12.11	12.02	11.97	
Channel				26047	26340	26683	Tune-up limit
Frequency (MHz)				1850.7	1880	1914.3	(dBm)
1.4	QPSK	1	0	17.23	17.15	17.14	17.9
1.4	QPSK	1	3	17.20	17.11	17.16	
1.4	QPSK	1	5	17.23	17.10	17.09	
1.4	QPSK	3	0	17.25	17.16	17.14	
1.4	QPSK	3	1	17.25	17.14	17.13	
1.4	QPSK	3	3	17.21	17.14	17.16	
1.4	QPSK	6	0	16.25	16.16	16.18	16.9
1.4	16QAM	1	0	16.50	16.49	16.44	16.9
1.4	16QAM	1	3	16.47	16.44	16.46	
1.4	16QAM	1	5	16.45	16.48	16.42	
1.4	16QAM	3	0	16.37	16.27	16.27	
1.4	16QAM	3	1	16.42	16.30	16.30	
1.4	16QAM	3	3	16.39	16.27	16.28	
1.4	16QAM	6	0	15.33	15.28	15.26	15.9
1.4	64QAM	1	0	15.42	15.42	15.36	15.9
1.4	64QAM	1	3	15.50	15.42	15.39	
1.4	64QAM	1	5	15.50	15.43	15.41	
1.4	64QAM	3	0	15.42	15.29	15.33	
1.4	64QAM	3	1	15.42	15.28	15.34	
1.4	64QAM	3	3	15.42	15.35	15.29	
1.4	64QAM	6	0	14.34	14.25	14.22	14.9
1.4	256QAM	1	0	12.05	12.00	11.96	12.9
1.4	256QAM	1	3	12.20	12.04	12.09	
1.4	256QAM	1	5	12.03	11.99	11.87	
1.4	256QAM	3	0	11.87	11.79	11.78	
1.4	256QAM	3	1	12.03	12.02	12.00	
1.4	256QAM	3	3	11.98	11.92	11.80	
1.4	256QAM	6	0	12.01	11.99	11.96	12.9



<LTE Band 25_Ant MIMO2_Sensor ON>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				26140	26340	26590	
Frequency (MHz)				1860	1880	1905	
20	QPSK	1	0	21.08	21.14	21.06	
20	QPSK	1	49	20.90	21.04	20.94	22.7
20	QPSK	1	99	20.94	21.07	20.94	
20	QPSK	50	0	20.87	20.95	20.85	
20	QPSK	50	24	21.00	21.09	20.91	22.7
20	QPSK	50	50	20.89	21.03	20.90	
20	QPSK	100	0	20.89	21.02	20.89	
20	16QAM	1	0	21.02	21.11	21.03	22.7
20	16QAM	1	49	20.89	21.05	20.93	
20	16QAM	1	99	21.02	21.08	20.91	
20	16QAM	50	0	20.85	20.91	20.75	22
20	16QAM	50	24	20.99	21.06	20.92	
20	16QAM	50	50	20.91	21.02	20.91	
20	16QAM	100	0	20.87	21.03	20.88	22
20	64QAM	1	0	20.64	20.78	20.63	
20	64QAM	1	49	20.61	20.76	20.67	
20	64QAM	1	99	20.68	20.81	20.70	21.5
20	64QAM	50	0	20.53	20.65	20.50	
20	64QAM	50	24	20.59	20.73	20.61	
20	64QAM	50	50	20.66	20.77	20.61	19.5
20	64QAM	100	0	20.61	20.76	20.59	
20	256QAM	1	0	18.02	18.18	18.00	
20	256QAM	1	49	18.33	18.41	18.28	19.5
20	256QAM	1	99	18.15	18.25	18.11	
20	256QAM	50	0	18.54	18.66	18.48	
20	256QAM	50	24	18.68	18.77	18.64	19.5
20	256QAM	50	50	18.63	18.75	18.60	
20	256QAM	100	0	18.60	18.74	18.56	
Channel				26115	26340	26615	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1907.5	
15	QPSK	1	0	20.97	21.06	21.01	
15	QPSK	1	37	20.81	20.91	20.91	22.7
15	QPSK	1	74	20.81	21.02	20.81	
15	QPSK	36	0	20.84	20.86	20.77	
15	QPSK	36	20	20.88	21.04	20.78	22.7
15	QPSK	36	39	20.82	20.98	20.80	
15	QPSK	75	0	20.80	20.89	20.81	
15	16QAM	1	0	20.96	21.05	20.95	22.7
15	16QAM	1	37	20.77	20.93	20.82	
15	16QAM	1	74	20.96	20.99	20.84	
15	16QAM	36	0	20.78	20.87	20.62	22
15	16QAM	36	20	20.91	20.99	20.89	
15	16QAM	36	39	20.80	20.94	20.82	
15	16QAM	75	0	20.83	20.99	20.80	22
15	64QAM	1	0	20.51	20.67	20.55	
15	64QAM	1	37	20.49	20.65	20.59	
15	64QAM	1	74	20.58	20.78	20.67	21.5
15	64QAM	36	0	20.43	20.62	20.39	
15	64QAM	36	20	20.51	20.64	20.58	
15	64QAM	36	39	20.54	20.70	20.51	19.5
15	64QAM	75	0	20.58	20.66	20.47	
15	256QAM	1	0	17.92	18.05	17.89	
15	256QAM	1	37	18.24	18.34	18.17	19.5
15	256QAM	1	74	18.06	18.18	18.02	
15	256QAM	36	0	18.41	18.62	18.43	
15	256QAM	36	20	18.63	18.68	18.58	



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15	256QAM	36	39	18.52	18.65	18.53	Tune-up limit (dBm)
15	256QAM	75	0	18.53	18.66	18.52	
Channel				26090	26340	26640	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1910	
10	QPSK	1	0	21.03	21.05	20.96	22.7
10	QPSK	1	25	20.83	20.98	20.85	
10	QPSK	1	49	20.81	20.98	20.90	
10	QPSK	25	0	20.75	20.92	20.82	22.7
10	QPSK	25	12	20.90	21.06	20.80	
10	QPSK	25	25	20.80	20.92	20.81	
10	QPSK	50	0	20.79	20.98	20.77	
10	16QAM	1	0	20.90	21.03	20.91	22.7
10	16QAM	1	25	20.78	20.92	20.84	
10	16QAM	1	49	20.95	20.96	20.78	
10	16QAM	25	0	20.75	20.78	20.64	22
10	16QAM	25	12	20.89	21.01	20.82	
10	16QAM	25	25	20.80	20.96	20.85	
10	16QAM	50	0	20.75	20.94	20.80	
10	64QAM	1	0	20.59	20.71	20.53	22
10	64QAM	1	25	20.58	20.63	20.54	
10	64QAM	1	49	20.64	20.71	20.60	
10	64QAM	25	0	20.42	20.53	20.39	21.5
10	64QAM	25	12	20.46	20.67	20.53	
10	64QAM	25	25	20.56	20.64	20.52	
10	64QAM	50	0	20.51	20.66	20.48	
10	256QAM	1	0	17.97	18.09	17.92	19.5
10	256QAM	1	25	18.26	18.33	18.24	
10	256QAM	1	49	18.03	18.16	18.00	
10	256QAM	25	0	18.51	18.58	18.38	19.5
10	256QAM	25	12	18.55	18.73	18.54	
10	256QAM	25	25	18.56	18.62	18.56	
10	256QAM	50	0	18.49	18.66	18.45	
Channel				26065	26340	26665	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1912.5	
5	QPSK	1	0	20.99	21.08	20.94	22.7
5	QPSK	1	12	20.82	20.94	20.90	
5	QPSK	1	24	20.81	21.00	20.84	
5	QPSK	12	0	20.79	20.91	20.75	22.7
5	QPSK	12	7	20.95	21.03	20.78	
5	QPSK	12	13	20.78	20.90	20.84	
5	QPSK	25	0	20.85	20.98	20.82	
5	16QAM	1	0	20.98	21.04	20.93	22.7
5	16QAM	1	12	20.81	20.96	20.90	
5	16QAM	1	24	20.96	21.04	20.82	
5	16QAM	12	0	20.75	20.78	20.69	22
5	16QAM	12	7	20.96	20.97	20.89	
5	16QAM	12	13	20.78	20.99	20.86	
5	16QAM	25	0	20.80	20.93	20.85	
5	64QAM	1	0	20.60	20.66	20.50	22
5	64QAM	1	12	20.51	20.73	20.54	
5	64QAM	1	24	20.57	20.69	20.61	
5	64QAM	12	0	20.42	20.58	20.46	21.5
5	64QAM	12	7	20.53	20.64	20.49	
5	64QAM	12	13	20.54	20.70	20.54	
5	64QAM	25	0	20.51	20.64	20.52	
5	256QAM	1	0	17.97	18.06	17.93	19.5
5	256QAM	1	12	18.24	18.31	18.16	
5	256QAM	1	24	18.09	18.13	18.06	
5	256QAM	12	0	18.46	18.56	18.38	19.5
5	256QAM	12	7	18.60	18.73	18.53	
5	256QAM	12	13	18.54	18.67	18.52	
5	256QAM	25	0	18.47	18.66	18.53	
Channel				26055	26340	26675	Tune-up limit



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Frequency (MHz)				1851.5	1880	1913.5	(dBm)
3	QPSK	1	0	21.04	21.10	21.02	22.7
3	QPSK	1	8	20.78	20.96	20.87	
3	QPSK	1	14	20.82	21.01	20.88	
3	QPSK	8	0	20.82	20.89	20.74	22.7
3	QPSK	8	4	20.92	21.03	20.85	
3	QPSK	8	7	20.82	20.98	20.82	
3	QPSK	15	0	20.76	20.99	20.85	
3	16QAM	1	0	20.91	21.08	20.97	22.7
3	16QAM	1	8	20.81	21.02	20.88	
3	16QAM	1	14	20.98	20.97	20.78	
3	16QAM	8	0	20.77	20.85	20.62	22
3	16QAM	8	4	20.86	21.00	20.86	
3	16QAM	8	7	20.83	20.99	20.80	
3	16QAM	15	0	20.84	20.99	20.82	
3	64QAM	1	0	20.59	20.67	20.60	22
3	64QAM	1	8	20.53	20.73	20.56	
3	64QAM	1	14	20.62	20.76	20.66	
3	64QAM	8	0	20.50	20.62	20.41	21.5
3	64QAM	8	4	20.53	20.67	20.58	
3	64QAM	8	7	20.61	20.66	20.55	
3	64QAM	15	0	20.52	20.65	20.46	
3	256QAM	1	0	17.91	18.06	17.93	19.5
3	256QAM	1	8	18.22	18.32	18.23	
3	256QAM	1	14	18.02	18.20	18.05	
3	256QAM	8	0	18.48	18.57	18.39	19.5
3	256QAM	8	4	18.59	18.71	18.53	
3	256QAM	8	7	18.57	18.70	18.48	
3	256QAM	15	0	18.57	18.69	18.53	
Channel				26047	26340	26683	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1914.3	
1.4	QPSK	1	0	21.01	21.08	21.00	22.7
1.4	QPSK	1	3	20.85	20.95	20.85	
1.4	QPSK	1	5	20.81	20.96	20.89	
1.4	QPSK	3	0	20.81	20.89	20.81	
1.4	QPSK	3	1	20.96	21.04	20.84	
1.4	QPSK	3	3	20.86	20.93	20.79	
1.4	QPSK	6	0	20.77	20.98	20.84	22.7
1.4	16QAM	1	0	20.93	21.08	20.90	22.7
1.4	16QAM	1	3	20.77	20.93	20.81	
1.4	16QAM	1	5	20.95	21.03	20.85	
1.4	16QAM	3	0	20.82	20.79	20.79	
1.4	16QAM	3	1	20.94	20.98	20.79	
1.4	16QAM	3	3	20.85	20.90	20.79	
1.4	16QAM	6	0	20.82	20.96	20.79	22
1.4	64QAM	1	0	20.55	20.74	20.50	22
1.4	64QAM	1	3	20.56	20.69	20.55	
1.4	64QAM	1	5	20.64	20.77	20.58	
1.4	64QAM	3	0	20.43	20.54	20.44	
1.4	64QAM	3	1	20.56	20.68	20.55	
1.4	64QAM	3	3	20.56	20.73	20.50	
1.4	64QAM	6	0	20.50	20.72	20.51	21.5
1.4	256QAM	1	0	17.91	18.07	17.90	19.5
1.4	256QAM	1	3	18.27	18.34	18.24	
1.4	256QAM	1	5	18.08	18.14	18.07	
1.4	256QAM	3	0	18.50	18.57	18.40	
1.4	256QAM	3	1	18.60	18.66	18.58	
1.4	256QAM	3	3	18.58	18.71	18.52	
1.4	256QAM	6	0	18.48	18.68	18.46	19.5

**<LTE Band 26_Ant Main_Sensor ON>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				26765	26865	26965	
Frequency (MHz)				821.5	831.5	841.5	
15	QPSK	1	0	23.31	23.29	23.22	
15	QPSK	1	37	23.40	23.32	23.34	23.7
15	QPSK	1	74	23.34	23.30	23.32	
15	QPSK	36	0	22.33	22.31	22.31	
15	QPSK	36	20	22.45	22.41	22.42	22.7
15	QPSK	36	39	22.43	22.40	22.41	
15	QPSK	75	0	22.42	22.37	22.39	
15	16QAM	1	0	22.62	22.67	22.57	22.7
15	16QAM	1	37	22.68	22.61	22.62	
15	16QAM	1	74	22.62	22.67	22.59	
15	16QAM	36	0	21.34	21.31	21.31	21.7
15	16QAM	36	20	21.46	21.43	21.44	
15	16QAM	36	39	21.46	21.44	21.44	
15	16QAM	75	0	21.43	21.40	21.44	21.7
15	64QAM	1	0	21.54	21.62	21.51	
15	64QAM	1	37	21.62	21.56	21.54	
15	64QAM	1	74	21.57	21.59	21.57	20.7
15	64QAM	36	0	20.33	20.32	20.31	
15	64QAM	36	20	20.46	20.43	20.43	
15	64QAM	36	39	20.48	20.43	20.42	18.7
15	64QAM	75	0	20.45	20.38	20.44	
15	256QAM	1	0	18.49	18.43	18.49	
15	256QAM	1	37	18.50	18.44	18.50	18.7
15	256QAM	1	74	18.39	18.33	18.39	
15	256QAM	36	0	18.31	18.25	18.31	
15	256QAM	36	20	18.39	18.33	18.39	18.7
15	256QAM	36	39	18.40	18.34	18.40	
15	256QAM	75	0	18.39	18.33	18.39	
Channel				26740	26865	26990	Tune-up limit (dBm)
Frequency (MHz)				819	831.5	844	
10	QPSK	1	0	23.35	23.21	23.10	
10	QPSK	1	25	23.14	23.22	23.29	23.7
10	QPSK	1	49	23.25	23.20	23.24	
10	QPSK	25	0	22.25	22.27	22.28	
10	QPSK	25	12	22.33	22.22	22.37	22.7
10	QPSK	25	25	22.25	22.31	22.36	
10	QPSK	50	0	22.32	22.25	22.30	
10	16QAM	1	0	22.48	22.59	22.45	22.7
10	16QAM	1	25	22.60	22.52	22.46	
10	16QAM	1	49	22.54	22.50	22.50	
10	16QAM	25	0	21.28	21.16	21.27	21.7
10	16QAM	25	12	21.40	21.33	21.26	
10	16QAM	25	25	21.34	21.37	21.29	
10	16QAM	50	0	21.28	21.28	21.26	21.7
10	64QAM	1	0	21.44	21.47	21.35	
10	64QAM	1	25	21.58	21.41	21.45	
10	64QAM	1	49	21.43	21.48	21.40	20.7
10	64QAM	25	0	20.18	20.29	20.26	
10	64QAM	25	12	20.31	20.34	20.32	
10	64QAM	25	25	20.36	20.37	20.33	18.7
10	64QAM	50	0	20.36	20.29	20.32	
10	256QAM	1	0	18.39	18.37	18.44	
10	256QAM	1	25	18.43	18.41	18.43	18.7
10	256QAM	1	49	18.33	18.29	18.29	
10	256QAM	25	0	18.28	18.20	18.24	



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10	256QAM	25	12	18.29	18.28	18.29	
10	256QAM	25	25	18.32	18.28	18.30	
10	256QAM	50	0	18.30	18.23	18.29	
Channel				26715	26865	27015	Tune-up limit (dBm)
Frequency (MHz)				816.5	831.5	846.5	
5	QPSK	1	0	23.37	23.24	23.16	23.7
5	QPSK	1	12	23.23	23.19	23.18	
5	QPSK	1	24	23.31	23.18	23.22	
5	QPSK	12	0	22.30	22.23	22.20	22.7
5	QPSK	12	7	22.38	22.26	22.29	
5	QPSK	12	13	22.34	22.29	22.29	
5	QPSK	25	0	22.30	22.24	22.34	22.7
5	16QAM	1	0	22.59	22.59	22.40	
5	16QAM	1	12	22.52	22.45	22.46	
5	16QAM	1	24	22.51	22.53	22.41	21.7
5	16QAM	12	0	21.29	21.23	21.28	
5	16QAM	12	7	21.28	21.27	21.33	
5	16QAM	12	13	21.35	21.32	21.38	21.7
5	16QAM	25	0	21.39	21.36	21.32	
5	64QAM	1	0	21.36	21.47	21.44	
5	64QAM	1	12	21.58	21.38	21.51	20.7
5	64QAM	1	24	21.46	21.54	21.39	
5	64QAM	12	0	20.18	20.14	20.23	
5	64QAM	12	7	20.40	20.29	20.31	20.7
5	64QAM	12	13	20.32	20.33	20.28	
5	64QAM	25	0	20.30	20.28	20.38	
5	256QAM	1	0	18.39	18.38	18.43	18.7
5	256QAM	1	12	18.47	18.41	18.44	
5	256QAM	1	24	18.32	18.26	18.31	
5	256QAM	12	0	18.22	18.18	18.25	18.7
5	256QAM	12	7	18.30	18.29	18.31	
5	256QAM	12	13	18.31	18.29	18.37	
5	256QAM	25	0	18.29	18.23	18.29	Tune-up limit (dBm)
Channel				26705	26865	27025	
Frequency (MHz)				815.5	831.5	847.5	Tune-up limit (dBm)
3	QPSK	1	0	23.23	23.21	23.10	
3	QPSK	1	8	23.21	23.11	23.08	23.7
3	QPSK	1	14	23.23	23.25	23.19	
3	QPSK	8	0	22.30	22.19	22.17	
3	QPSK	8	4	22.32	22.32	22.22	22.7
3	QPSK	8	7	22.27	22.23	22.26	
3	QPSK	15	0	22.34	22.26	22.29	
3	16QAM	1	0	22.47	22.49	22.30	22.7
3	16QAM	1	8	22.61	22.55	22.42	
3	16QAM	1	14	22.47	22.52	22.32	
3	16QAM	8	0	21.25	21.27	21.26	21.7
3	16QAM	8	4	21.28	21.31	21.27	
3	16QAM	8	7	21.34	21.38	21.32	
3	16QAM	15	0	21.32	21.30	21.30	21.7
3	64QAM	1	0	21.36	21.53	21.39	
3	64QAM	1	8	21.45	21.49	21.45	
3	64QAM	1	14	21.47	21.54	21.31	20.7
3	64QAM	8	0	20.21	20.23	20.15	
3	64QAM	8	4	20.38	20.38	20.25	
3	64QAM	8	7	20.45	20.32	20.18	18.7
3	64QAM	15	0	20.31	20.35	20.32	
3	256QAM	1	0	18.40	18.38	18.45	
3	256QAM	1	8	18.44	18.39	18.45	18.7
3	256QAM	1	14	18.30	18.27	18.35	
3	256QAM	8	0	18.24	18.21	18.22	
3	256QAM	8	4	18.31	18.24	18.32	18.7
3	256QAM	8	7	18.37	18.24	18.35	
3	256QAM	15	0	18.30	18.30	18.31	



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Channel				26697	26865	27033	Tune-up limit (dBm)
Frequency (MHz)				814.7	831.5	848.3	
1.4	QPSK	1	0	23.20	23.33	23.34	23.7
1.4	QPSK	1	3	23.35	23.39	23.37	
1.4	QPSK	1	5	23.34	23.30	23.31	
1.4	QPSK	3	0	23.27	23.33	23.35	
1.4	QPSK	3	1	23.31	23.34	23.38	
1.4	QPSK	3	3	23.36	23.34	23.35	
1.4	QPSK	6	0	22.24	22.35	22.40	22.7
1.4	16QAM	1	0	22.39	22.67	22.68	22.7
1.4	16QAM	1	3	22.53	22.67	22.69	
1.4	16QAM	1	5	22.52	22.61	22.64	
1.4	16QAM	3	0	22.30	22.47	22.51	
1.4	16QAM	3	1	22.29	22.52	22.47	
1.4	16QAM	3	3	22.35	22.42	22.47	
1.4	16QAM	6	0	21.26	21.40	21.47	21.7
1.4	64QAM	1	0	21.30	21.49	21.58	21.7
1.4	64QAM	1	3	21.41	21.63	21.59	
1.4	64QAM	1	5	21.47	21.55	21.52	
1.4	64QAM	3	0	21.29	21.50	21.47	
1.4	64QAM	3	1	21.30	21.49	21.50	
1.4	64QAM	3	3	21.42	21.50	21.49	
1.4	64QAM	6	0	20.23	20.39	20.46	20.7
1.4	256QAM	1	0	18.44	18.39	18.42	18.7
1.4	256QAM	1	3	18.46	18.40	18.43	
1.4	256QAM	1	5	18.32	18.27	18.31	
1.4	256QAM	3	0	18.21	18.16	18.28	
1.4	256QAM	3	1	18.32	18.25	18.33	
1.4	256QAM	3	3	18.36	18.25	18.34	
1.4	256QAM	6	0	18.29	18.23	18.33	18.7



<LTE Band 30_Ant Main_Sensor ON>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				27710			
Frequency (MHz)				2310			
10	QPSK	1	0		15.27		16.5
10	QPSK	1	25		15.40		
10	QPSK	1	49		15.29		
10	QPSK	25	0		14.35		15.5
10	QPSK	25	12		14.36		
10	QPSK	25	25		14.34		
10	QPSK	50	0		14.33		15.5
10	16QAM	1	0		14.57		
10	16QAM	1	25		14.66		
10	16QAM	1	49		14.62		14.5
10	16QAM	25	0		13.35		
10	16QAM	25	12		13.38		
10	16QAM	25	25		13.35		14.5
10	16QAM	50	0		13.34		
10	64QAM	1	0		13.63		
10	64QAM	1	25		13.62		14.5
10	64QAM	1	49		13.55		
10	64QAM	25	0		12.34		
10	64QAM	25	12		12.37		13.5
10	64QAM	25	25		12.36		
10	64QAM	50	0		12.36		
10	256QAM	1	0		10.35		11.5
10	256QAM	1	25		10.46		
10	256QAM	1	49		10.27		
10	256QAM	25	0		10.28		11.5
10	256QAM	25	12		10.29		
10	256QAM	25	25		10.32		
10	256QAM	50	0		10.29		Tune-up limit (dBm)
Channel				27685	27710	27735	
Frequency (MHz)				2307.5	2310	2312.5	
5	QPSK	1	0	15.20	15.23	15.15	16.5
5	QPSK	1	12	15.33	15.36	15.28	
5	QPSK	1	24	15.22	15.25	15.17	
5	QPSK	12	0	14.28	14.31	14.23	15.5
5	QPSK	12	7	14.29	14.32	14.24	
5	QPSK	12	13	14.27	14.30	14.22	
5	QPSK	25	0	14.26	14.29	14.21	15.5
5	16QAM	1	0	14.50	14.53	14.45	
5	16QAM	1	12	14.59	14.62	14.54	
5	16QAM	1	24	14.55	14.58	14.50	14.5
5	16QAM	12	0	13.29	13.32	13.25	
5	16QAM	12	7	13.32	13.35	13.28	
5	16QAM	12	13	13.29	13.32	13.25	14.5
5	16QAM	25	0	13.28	13.31	13.24	
5	64QAM	1	0	13.57	13.60	13.53	
5	64QAM	1	12	13.56	13.59	13.52	14.5
5	64QAM	1	24	13.49	13.52	13.45	
5	64QAM	12	0	12.28	12.30	12.24	
5	64QAM	12	7	12.31	12.33	12.27	13.5
5	64QAM	12	13	12.30	12.32	12.26	
5	64QAM	25	0	12.30	12.32	12.26	
5	256QAM	1	0	10.30	10.32	10.27	11.5
5	256QAM	1	12	10.41	10.43	10.38	
5	256QAM	1	24	10.22	10.24	10.19	
5	256QAM	12	0	10.23	10.25	10.20	11.5



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5	256QAM	12	7	10.24	10.26	10.21	
5	256QAM	12	13	10.27	10.29	10.24	
5	256QAM	25	0	10.24	10.26	10.21	

<LTE Band 66_Ant Main_Sensor ON>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	16.79	16.83	16.87	17.9
20	QPSK	1	49	16.84	16.85	16.88	
20	QPSK	1	99	16.71	16.65	16.69	
20	QPSK	50	0	15.83	15.83	15.83	16.9
20	QPSK	50	24	15.88	15.86	15.89	
20	QPSK	50	50	15.85	15.82	15.82	
20	QPSK	100	0	15.86	15.77	15.84	16.9
20	16QAM	1	0	15.98	15.90	15.97	
20	16QAM	1	49	15.89	15.90	15.95	
20	16QAM	1	99	15.91	15.93	15.92	15.9
20	16QAM	50	0	14.88	14.89	14.86	
20	16QAM	50	24	14.93	14.86	14.93	
20	16QAM	50	50	14.88	14.85	14.82	15.9
20	16QAM	100	0	14.88	14.80	14.87	
20	64QAM	1	0	14.92	14.93	14.98	15.9
20	64QAM	1	49	14.93	14.97	14.96	
20	64QAM	1	99	14.96	14.85	14.94	
20	64QAM	50	0	13.84	13.86	13.85	14.9
20	64QAM	50	24	13.95	13.83	13.90	
20	64QAM	50	50	13.86	13.85	13.81	
20	64QAM	100	0	13.88	13.83	13.86	12.9
20	256QAM	1	0	11.65	11.61	11.64	
20	256QAM	1	49	11.84	11.80	11.83	
20	256QAM	1	99	11.67	11.63	11.66	12.9
20	256QAM	50	0	11.57	11.53	11.56	
20	256QAM	50	24	11.66	11.62	11.65	
20	256QAM	50	50	11.61	11.57	11.60	12.9
20	256QAM	100	0	11.60	11.56	11.59	
Channel				132047	132322	132597	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	16.73	16.79	16.82	
15	QPSK	1	37	16.77	16.81	16.80	17.9
15	QPSK	1	74	16.67	16.57	16.65	
15	QPSK	36	0	15.75	15.82	15.80	16.9
15	QPSK	36	20	15.81	15.79	15.80	
15	QPSK	36	39	15.78	15.72	15.73	
15	QPSK	75	0	15.79	15.74	15.74	16.9
15	16QAM	1	0	15.91	15.86	15.92	
15	16QAM	1	37	15.83	15.86	15.89	
15	16QAM	1	74	15.85	15.86	15.84	15.9
15	16QAM	36	0	14.82	14.82	14.79	
15	16QAM	36	20	14.86	14.78	14.84	
15	16QAM	36	39	14.83	14.78	14.74	15.9
15	16QAM	75	0	14.85	14.70	14.82	
15	64QAM	1	0	14.86	14.89	14.93	
15	64QAM	1	37	14.85	14.89	14.88	15.9
15	64QAM	1	74	14.92	14.82	14.87	
15	64QAM	36	0	13.80	13.79	13.80	14.9
15	64QAM	36	20	13.88	13.75	13.87	
15	64QAM	36	39	13.78	13.82	13.76	
15	64QAM	75	0	13.83	13.73	13.82	14.9
15	256QAM	1	0	11.61	11.56	11.54	



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15	256QAM	1	37	11.78	11.71	11.80	12.9
15	256QAM	1	74	11.57	11.60	11.56	
15	256QAM	36	0	11.52	11.43	11.50	
15	256QAM	36	20	11.57	11.55	11.55	
15	256QAM	36	39	11.52	11.47	11.51	
15	256QAM	75	0	11.54	11.53	11.50	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	16.76	16.73	16.82	17.9
10	QPSK	1	25	16.80	16.78	16.80	
10	QPSK	1	49	16.65	16.62	16.66	
10	QPSK	25	0	15.79	15.81	15.76	16.9
10	QPSK	25	12	15.82	15.76	15.85	
10	QPSK	25	25	15.80	15.73	15.75	
10	QPSK	50	0	15.82	15.71	15.78	
10	16QAM	1	0	15.89	15.84	15.92	
10	16QAM	1	25	15.79	15.84	15.91	
10	16QAM	1	49	15.83	15.88	15.85	15.9
10	16QAM	25	0	14.80	14.84	14.82	
10	16QAM	25	12	14.86	14.76	14.89	
10	16QAM	25	25	14.82	14.79	14.73	
10	16QAM	50	0	14.84	14.71	14.83	
10	64QAM	1	0	14.83	14.84	14.91	
10	64QAM	1	25	14.87	14.92	14.92	15.9
10	64QAM	1	49	14.87	14.81	14.87	
10	64QAM	25	0	13.76	13.76	13.79	
10	64QAM	25	12	13.91	13.79	13.80	14.9
10	64QAM	25	25	13.83	13.79	13.78	
10	64QAM	50	0	13.82	13.76	13.78	
10	256QAM	1	0	11.57	11.54	11.59	
10	256QAM	1	25	11.81	11.70	11.80	12.9
10	256QAM	1	49	11.64	11.53	11.57	
10	256QAM	25	0	11.47	11.44	11.47	
10	256QAM	25	12	11.62	11.56	11.57	12.9
10	256QAM	25	25	11.54	11.50	11.57	
10	256QAM	50	0	11.55	11.52	11.51	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	16.74	16.75	16.82	17.9
5	QPSK	1	12	16.76	16.75	16.81	
5	QPSK	1	24	16.66	16.62	16.66	
5	QPSK	12	0	15.77	15.83	15.79	16.9
5	QPSK	12	7	15.83	15.78	15.85	
5	QPSK	12	13	15.76	15.74	15.74	
5	QPSK	25	0	15.80	15.69	15.74	
5	16QAM	1	0	15.89	15.86	15.89	16.9
5	16QAM	1	12	15.84	15.84	15.87	
5	16QAM	1	24	15.87	15.84	15.86	
5	16QAM	12	0	14.80	14.86	14.83	15.9
5	16QAM	12	7	14.90	14.76	14.84	
5	16QAM	12	13	14.79	14.79	14.78	
5	16QAM	25	0	14.79	14.71	14.82	
5	64QAM	1	0	14.86	14.87	14.88	15.9
5	64QAM	1	12	14.84	14.89	14.90	
5	64QAM	1	24	14.90	14.81	14.89	
5	64QAM	12	0	13.81	13.83	13.75	14.9
5	64QAM	12	7	13.85	13.76	13.81	
5	64QAM	12	13	13.80	13.79	13.75	
5	64QAM	25	0	13.82	13.80	13.78	
5	256QAM	1	0	11.56	11.53	11.57	12.9
5	256QAM	1	12	11.81	11.73	11.74	
5	256QAM	1	24	11.57	11.54	11.62	
5	256QAM	12	0	11.53	11.44	11.47	12.9



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5	256QAM	12	7	11.59	11.59	11.58	
5	256QAM	12	13	11.53	11.50	11.56	
5	256QAM	25	0	11.51	11.52	11.56	
Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	16.70	16.80	16.79	17.9
3	QPSK	1	8	16.81	16.81	16.78	
3	QPSK	1	14	16.67	16.62	16.66	
3	QPSK	8	0	15.77	15.78	15.76	16.9
3	QPSK	8	4	15.82	15.80	15.81	
3	QPSK	8	7	15.80	15.74	15.72	
3	QPSK	15	0	15.83	15.67	15.81	16.9
3	16QAM	1	0	15.92	15.85	15.94	
3	16QAM	1	8	15.84	15.85	15.86	
3	16QAM	1	14	15.81	15.83	15.83	15.9
3	16QAM	8	0	14.83	14.84	14.77	
3	16QAM	8	4	14.87	14.80	14.85	
3	16QAM	8	7	14.78	14.82	14.77	15.9
3	16QAM	15	0	14.79	14.75	14.78	
3	64QAM	1	0	14.88	14.89	14.93	
3	64QAM	1	8	14.86	14.88	14.86	14.9
3	64QAM	1	14	14.88	14.79	14.90	
3	64QAM	8	0	13.76	13.80	13.80	
3	64QAM	8	4	13.85	13.77	13.85	12.9
3	64QAM	8	7	13.79	13.79	13.75	
3	64QAM	15	0	13.78	13.75	13.76	
3	256QAM	1	0	11.58	11.54	11.61	12.9
3	256QAM	1	8	11.80	11.75	11.78	
3	256QAM	1	14	11.60	11.58	11.57	
3	256QAM	8	0	11.51	11.48	11.46	12.9
3	256QAM	8	4	11.58	11.53	11.55	
3	256QAM	8	7	11.53	11.51	11.52	
3	256QAM	15	0	11.56	11.49	11.53	Tune-up limit (dBm)
Channel				131979	132322	132665	
Frequency (MHz)				1710.7	1745	1779.3	Tune-up limit (dBm)
1.4	QPSK	1	0	16.83	16.81	16.78	
1.4	QPSK	1	3	16.81	16.81	16.74	17.9
1.4	QPSK	1	5	16.80	16.80	16.74	
1.4	QPSK	3	0	16.85	16.85	16.78	
1.4	QPSK	3	1	16.85	16.81	16.79	16.9
1.4	QPSK	3	3	16.87	16.85	16.77	
1.4	QPSK	6	0	15.92	15.85	15.81	
1.4	16QAM	1	0	16.00	15.96	15.89	16.9
1.4	16QAM	1	3	15.92	15.88	15.94	
1.4	16QAM	1	5	16.00	15.91	15.92	
1.4	16QAM	3	0	15.98	15.93	15.93	15.9
1.4	16QAM	3	1	15.99	15.92	15.90	
1.4	16QAM	3	3	15.99	15.94	15.91	
1.4	16QAM	6	0	14.94	14.94	14.90	15.9
1.4	64QAM	1	0	14.94	14.85	14.99	
1.4	64QAM	1	3	14.93	14.93	14.98	
1.4	64QAM	1	5	14.99	14.91	14.98	14.9
1.4	64QAM	3	0	14.86	14.86	14.92	
1.4	64QAM	3	1	14.90	14.85	14.98	
1.4	64QAM	3	3	14.90	14.84	14.89	12.9
1.4	64QAM	6	0	13.95	13.93	13.89	
1.4	256QAM	1	0	11.57	11.57	11.57	
1.4	256QAM	1	3	11.78	11.74	11.78	12.9
1.4	256QAM	1	5	11.61	11.53	11.63	
1.4	256QAM	3	0	11.51	11.43	11.50	
1.4	256QAM	3	1	11.62	11.58	11.56	12.9
1.4	256QAM	3	3	11.54	11.48	11.55	
1.4	256QAM	6	0	11.57	11.52	11.55	



<LTE Band 66_Ant MIMO2_Sensor ON>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	20.85	20.97	20.95	21.6
20	QPSK	1	49	20.78	20.94	20.88	
20	QPSK	1	99	20.67	20.87	20.76	
20	QPSK	50	0	20.69	20.86	20.77	21.6
20	QPSK	50	24	20.75	20.91	20.86	
20	QPSK	50	50	20.74	20.89	20.84	
20	QPSK	100	0	20.68	20.87	20.78	
20	16QAM	1	0	20.77	20.96	20.84	21.6
20	16QAM	1	49	20.78	20.91	20.88	
20	16QAM	1	99	20.75	20.91	20.82	
20	16QAM	50	0	20.71	20.84	20.82	21.6
20	16QAM	50	24	20.68	20.85	20.81	
20	16QAM	50	50	20.61	20.81	20.75	
20	16QAM	100	0	20.74	20.88	20.83	
20	64QAM	1	0	20.84	20.96	20.87	21.6
20	64QAM	1	49	20.72	20.89	20.80	
20	64QAM	1	99	20.70	20.92	20.84	
20	64QAM	50	0	20.26	20.44	20.34	21
20	64QAM	50	24	20.31	20.43	20.34	
20	64QAM	50	50	20.34	20.47	20.35	
20	64QAM	100	0	20.29	20.45	20.38	
20	256QAM	1	0	17.71	17.92	17.87	19.5
20	256QAM	1	49	18.02	18.20	18.12	
20	256QAM	1	99	18.03	18.19	18.07	
20	256QAM	50	0	18.20	18.41	18.37	19.5
20	256QAM	50	24	18.22	18.39	18.36	
20	256QAM	50	50	18.22	18.44	18.36	
20	256QAM	100	0	18.26	18.45	18.40	
Channel				132047	132322	132597	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	20.75	20.92	20.86	21.6
15	QPSK	1	37	20.75	20.84	20.84	
15	QPSK	1	74	20.57	20.81	20.68	
15	QPSK	36	0	20.59	20.76	20.70	21.6
15	QPSK	36	20	20.70	20.85	20.82	
15	QPSK	36	39	20.68	20.82	20.80	
15	QPSK	75	0	20.64	20.80	20.71	
15	16QAM	1	0	20.71	20.88	20.77	21.6
15	16QAM	1	37	20.72	20.84	20.84	
15	16QAM	1	74	20.67	20.88	20.73	
15	16QAM	36	0	20.62	20.75	20.74	21.6
15	16QAM	36	20	20.63	20.77	20.78	
15	16QAM	36	39	20.54	20.75	20.69	
15	16QAM	75	0	20.66	20.79	20.79	
15	64QAM	1	0	20.81	20.88	20.78	21.6
15	64QAM	1	37	20.63	20.80	20.76	
15	64QAM	1	74	20.63	20.89	20.78	
15	64QAM	36	0	20.16	20.34	20.31	21
15	64QAM	36	20	20.25	20.39	20.26	
15	64QAM	36	39	20.28	20.38	20.28	
15	64QAM	75	0	20.24	20.36	20.33	
15	256QAM	1	0	17.66	17.89	17.83	19.5
15	256QAM	1	37	17.94	18.11	18.06	
15	256QAM	1	74	17.98	18.09	18.01	
15	256QAM	36	0	18.16	18.38	18.33	19.5



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15	256QAM	36	20	18.13	18.34	18.26	
15	256QAM	36	39	18.17	18.41	18.26	
15	256QAM	75	0	18.18	18.36	18.30	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	20.82	20.89	20.86	21.6
10	QPSK	1	25	20.69	20.84	20.84	
10	QPSK	1	49	20.59	20.78	20.66	
10	QPSK	25	0	20.64	20.77	20.69	21.6
10	QPSK	25	12	20.67	20.82	20.76	
10	QPSK	25	25	20.69	20.80	20.79	
10	QPSK	50	0	20.58	20.82	20.68	21.6
10	16QAM	1	0	20.74	20.88	20.78	
10	16QAM	1	25	20.72	20.86	20.83	
10	16QAM	1	49	20.67	20.83	20.73	21.6
10	16QAM	25	0	20.63	20.76	20.77	
10	16QAM	25	12	20.64	20.77	20.78	
10	16QAM	25	25	20.55	20.73	20.69	21.6
10	16QAM	50	0	20.66	20.83	20.78	
10	64QAM	1	0	20.80	20.92	20.83	
10	64QAM	1	25	20.68	20.86	20.77	21.6
10	64QAM	1	49	20.60	20.84	20.75	
10	64QAM	25	0	20.16	20.36	20.29	
10	64QAM	25	12	20.21	20.38	20.27	21
10	64QAM	25	25	20.27	20.41	20.31	
10	64QAM	50	0	20.25	20.39	20.32	
10	256QAM	1	0	17.63	17.87	17.77	19.5
10	256QAM	1	25	17.96	18.13	18.09	
10	256QAM	1	49	17.99	18.12	18.04	
10	256QAM	25	0	18.17	18.37	18.34	19.5
10	256QAM	25	12	18.16	18.33	18.28	
10	256QAM	25	25	18.12	18.37	18.28	
10	256QAM	50	0	18.17	18.35	18.37	Tune-up limit (dBm)
Channel				131997	132322	132647	
Frequency (MHz)				1712.5	1745	1777.5	21.6
5	QPSK	1	0	20.76	20.88	20.92	
5	QPSK	1	12	20.70	20.87	20.81	
5	QPSK	1	24	20.59	20.83	20.68	21.6
5	QPSK	12	0	20.59	20.76	20.73	
5	QPSK	12	7	20.67	20.86	20.80	
5	QPSK	12	13	20.68	20.85	20.76	21.6
5	QPSK	25	0	20.63	20.84	20.68	
5	16QAM	1	0	20.73	20.86	20.81	
5	16QAM	1	12	20.69	20.83	20.79	21.6
5	16QAM	1	24	20.65	20.83	20.74	
5	16QAM	12	0	20.68	20.77	20.74	
5	16QAM	12	7	20.63	20.76	20.78	21.6
5	16QAM	12	13	20.57	20.76	20.72	
5	16QAM	25	0	20.65	20.85	20.76	
5	64QAM	1	0	20.74	20.92	20.79	21.6
5	64QAM	1	12	20.63	20.80	20.74	
5	64QAM	1	24	20.60	20.89	20.77	
5	64QAM	12	0	20.17	20.39	20.31	21
5	64QAM	12	7	20.21	20.33	20.30	
5	64QAM	12	13	20.28	20.43	20.31	
5	64QAM	25	0	20.24	20.35	20.30	19.5
5	256QAM	1	0	17.62	17.88	17.81	
5	256QAM	1	12	17.92	18.10	18.04	
5	256QAM	1	24	17.94	18.13	18.04	19.5
5	256QAM	12	0	18.13	18.38	18.30	
5	256QAM	12	7	18.18	18.31	18.33	
5	256QAM	12	13	18.17	18.35	18.29	19.5
5	256QAM	25	0	18.19	18.41	18.36	



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Channel				131987	132322	132657	Tune-up limit
Frequency (MHz)				1711.5	1745	1778.5	(dBm)
3	QPSK	1	0	20.82	20.92	20.89	21.6
3	QPSK	1	8	20.75	20.89	20.85	
3	QPSK	1	14	20.60	20.80	20.66	
3	QPSK	8	0	20.63	20.81	20.71	21.6
3	QPSK	8	4	20.67	20.81	20.81	
3	QPSK	8	7	20.66	20.83	20.78	
3	QPSK	15	0	20.63	20.77	20.69	21.6
3	16QAM	1	0	20.68	20.90	20.75	
3	16QAM	1	8	20.72	20.86	20.79	
3	16QAM	1	14	20.69	20.86	20.78	21.6
3	16QAM	8	0	20.62	20.76	20.74	
3	16QAM	8	4	20.62	20.78	20.76	
3	16QAM	8	7	20.51	20.75	20.70	21.6
3	16QAM	15	0	20.67	20.84	20.79	
3	64QAM	1	0	20.80	20.87	20.82	
3	64QAM	1	8	20.65	20.85	20.75	21.6
3	64QAM	1	14	20.64	20.82	20.77	
3	64QAM	8	0	20.22	20.36	20.27	
3	64QAM	8	4	20.25	20.36	20.27	21
3	64QAM	8	7	20.24	20.37	20.28	
3	64QAM	15	0	20.22	20.38	20.29	
3	256QAM	1	0	17.61	17.85	17.77	19.5
3	256QAM	1	8	17.96	18.11	18.03	
3	256QAM	1	14	17.99	18.11	18.04	
3	256QAM	8	0	18.16	18.36	18.27	19.5
3	256QAM	8	4	18.17	18.33	18.32	
3	256QAM	8	7	18.14	18.37	18.29	
3	256QAM	15	0	18.23	18.39	18.37	
Channel				131979	132322	132665	Tune-up limit
Frequency (MHz)				1710.7	1745	1779.3	(dBm)
1.4	QPSK	1	0	20.80	20.93	20.89	21.6
1.4	QPSK	1	3	20.73	20.91	20.78	
1.4	QPSK	1	5	20.58	20.78	20.66	
1.4	QPSK	3	0	20.64	20.78	20.72	
1.4	QPSK	3	1	20.71	20.88	20.77	
1.4	QPSK	3	3	20.67	20.82	20.79	
1.4	QPSK	6	0	20.60	20.80	20.72	21.6
1.4	16QAM	1	0	20.70	20.91	20.77	21.6
1.4	16QAM	1	3	20.69	20.86	20.80	
1.4	16QAM	1	5	20.72	20.82	20.77	
1.4	16QAM	3	0	20.67	20.78	20.72	
1.4	16QAM	3	1	20.63	20.78	20.75	
1.4	16QAM	3	3	20.53	20.72	20.65	
1.4	16QAM	6	0	20.68	20.79	20.74	21.6
1.4	64QAM	1	0	20.66	20.86	20.73	21.6
1.4	64QAM	1	3	20.64	20.83	20.76	
1.4	64QAM	1	5	20.67	20.78	20.72	
1.4	64QAM	3	0	20.62	20.73	20.69	
1.4	64QAM	3	1	20.59	20.74	20.70	
1.4	64QAM	3	3	20.50	20.69	20.60	
1.4	64QAM	6	0	20.26	20.41	20.31	21
1.4	256QAM	1	0	17.61	17.89	17.81	19.5
1.4	256QAM	1	3	17.92	18.17	18.09	
1.4	256QAM	1	5	17.97	18.14	18.04	
1.4	256QAM	3	0	18.14	18.33	18.28	
1.4	256QAM	3	1	18.12	18.31	18.26	
1.4	256QAM	3	3	18.18	18.34	18.29	
1.4	256QAM	6	0	18.17	18.42	18.32	19.5

<LTE Band 70_Ant Main_Sensor ON>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					133047		
Frequency (MHz)					1702.5		
15	QPSK	1	0		18.09		19.3
15	QPSK	1	37		17.98		
15	QPSK	1	74		18.01		
15	QPSK	36	0		18.04		18.3
15	QPSK	36	20		18.07		
15	QPSK	36	39		18.05		
15	QPSK	75	0		18.02		
15	16QAM	1	0		18.07		18.3
15	16QAM	1	37		18.05		
15	16QAM	1	74		18.04		
15	16QAM	36	0		18.04		17.3
15	16QAM	36	20		18.03		
15	16QAM	36	39		18.06		
15	16QAM	75	0		18.06		
15	64QAM	1	0		18.01		17.3
15	64QAM	1	37		18.02		
15	64QAM	1	74		18.04		
15	64QAM	36	0		17.98		16.3
15	64QAM	36	20		17.99		
15	64QAM	36	39		18.01		
15	64QAM	75	0		18.00		
15	256QAM	1	0		17.91		14.3
15	256QAM	1	37		17.92		
15	256QAM	1	74		17.99		
15	256QAM	36	0		17.92		14.3
15	256QAM	36	20		17.95		
15	256QAM	36	39		18.04		
15	256QAM	75	0		18.01		
Channel				133022	133047	133072	Tune-up limit (dBm)
Frequency (MHz)				1700	1702.5	1705	
10	QPSK	1	0	17.88	18.02	17.95	19.3
10	QPSK	1	25	17.77	17.91	17.84	
10	QPSK	1	49	17.80	17.94	17.87	
10	QPSK	25	0	17.83	17.97	17.90	19.3
10	QPSK	25	12	17.86	18.00	17.93	
10	QPSK	25	25	17.84	17.98	17.91	
10	QPSK	50	0	17.81	17.95	17.88	
10	16QAM	1	0	17.86	18.00	17.93	19.3
10	16QAM	1	25	17.84	17.98	17.91	
10	16QAM	1	49	17.83	17.97	17.90	
10	16QAM	25	0	17.83	17.97	17.90	19.3
10	16QAM	25	12	17.82	17.96	17.89	
10	16QAM	25	25	17.85	17.99	17.92	
10	16QAM	50	0	17.85	17.99	17.92	
10	64QAM	1	0	17.80	17.94	17.87	19.3
10	64QAM	1	25	17.81	17.95	17.88	
10	64QAM	1	49	17.83	17.97	17.90	
10	64QAM	25	0	17.77	17.91	17.84	19.3
10	64QAM	25	12	17.78	17.92	17.85	
10	64QAM	25	25	17.80	17.94	17.87	



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10	64QAM	50	0	17.79	17.93	17.86	
10	256QAM	1	0	17.70	17.84	17.77	19.3
10	256QAM	1	25	17.71	17.85	17.78	
10	256QAM	1	49	17.78	17.92	17.85	
10	256QAM	25	0	17.71	17.85	17.78	
10	256QAM	25	12	17.74	17.88	17.81	19.3
10	256QAM	25	25	17.83	17.97	17.90	
10	256QAM	50	0	17.80	17.94	17.87	
Channel				132997	133047	133097	Tune-up limit (dBm)
Frequency (MHz)				1697.5	1702.5	1707.5	
5	QPSK	1	0	17.80	17.96	17.87	19.3
5	QPSK	1	12	17.67	17.88	17.79	
5	QPSK	1	24	17.72	17.91	17.80	
5	QPSK	12	0	17.79	17.94	17.81	19.3
5	QPSK	12	7	17.77	17.94	17.85	
5	QPSK	12	13	17.81	17.95	17.82	
5	QPSK	25	0	17.72	17.90	17.83	
5	16QAM	1	0	17.78	17.97	17.89	19.3
5	16QAM	1	12	17.80	17.92	17.81	
5	16QAM	1	24	17.74	17.90	17.81	
5	16QAM	12	0	17.79	17.90	17.80	19.3
5	16QAM	12	7	17.74	17.93	17.85	
5	16QAM	12	13	17.81	17.93	17.85	
5	16QAM	25	0	17.76	17.89	17.87	
5	64QAM	1	0	17.74	17.90	17.81	19.3
5	64QAM	1	12	17.78	17.86	17.83	
5	64QAM	1	24	17.77	17.90	17.81	
5	64QAM	12	0	17.73	17.88	17.80	19.3
5	64QAM	12	7	17.70	17.89	17.76	
5	64QAM	12	13	17.76	17.91	17.78	
5	64QAM	25	0	17.72	17.88	17.83	
5	256QAM	1	0	17.61	17.81	17.72	19.3
5	256QAM	1	12	17.62	17.77	17.74	
5	256QAM	1	24	17.74	17.84	17.78	
5	256QAM	12	0	17.67	17.81	17.71	19.3
5	256QAM	12	7	17.69	17.80	17.78	
5	256QAM	12	13	17.79	17.91	17.86	
5	256QAM	25	0	17.72	17.90	17.83	

<LTE Band 70_Ant MIMO2_Sensor ON>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					133047		
Frequency (MHz)					1702.5		
15	QPSK	1	0		20.43		20.7
15	QPSK	1	37		20.40		
15	QPSK	1	74		20.28		
15	QPSK	36	0		20.25		20.7
15	QPSK	36	20		20.31		
15	QPSK	36	39		20.27		
15	QPSK	75	0		20.17		
15	16QAM	1	0		20.41		20.7
15	16QAM	1	37		20.38		
15	16QAM	1	74		20.25		
15	16QAM	36	0		20.30		20.7
15	16QAM	36	20		20.29		
15	16QAM	36	39		20.25		
15	16QAM	75	0		20.26		
15	64QAM	1	0		20.22		19.7
15	64QAM	1	37		20.37		
15	64QAM	1	74		20.30		
15	64QAM	36	0		19.34		19.7
15	64QAM	36	20		19.33		
15	64QAM	36	39		19.32		
15	64QAM	75	0		19.33		
15	256QAM	1	0		17.05		17.7
15	256QAM	1	37		17.00		
15	256QAM	1	74		16.90		
15	256QAM	36	0		17.24		17.7
15	256QAM	36	20		17.22		
15	256QAM	36	39		17.25		
15	256QAM	75	0		17.20		
Channel				133022	133047	133072	Tune-up limit (dBm)
Frequency (MHz)				1700	1702.5	1705	
10	QPSK	1	0	20.25	20.33	20.31	20.7
10	QPSK	1	25	20.20	20.27	20.23	
10	QPSK	1	49	20.18	20.21	20.12	
10	QPSK	25	0	20.15	20.18	20.04	20.7
10	QPSK	25	12	20.19	20.19	20.13	
10	QPSK	25	25	20.18	20.19	20.12	
10	QPSK	50	0	19.98	20.08	19.94	
10	16QAM	1	0	20.26	20.31	20.25	20.7
10	16QAM	1	25	20.22	20.33	20.18	
10	16QAM	1	49	20.07	20.16	20.03	
10	16QAM	25	0	20.11	20.23	20.11	20.7
10	16QAM	25	12	20.12	20.23	20.05	
10	16QAM	25	25	20.12	20.10	20.00	
10	16QAM	50	0	20.11	20.11	20.11	
10	64QAM	1	0	20.08	20.16	20.02	20.7
10	64QAM	1	25	20.26	20.25	20.16	
10	64QAM	1	49	20.11	20.18	20.08	
10	64QAM	25	0	19.18	19.26	19.23	20.7
10	64QAM	25	12	19.15	19.25	19.20	
10	64QAM	25	25	19.17	19.27	19.14	



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10	64QAM	50	0	19.18	19.18	19.16	
10	256QAM	1	0	16.90	16.97	16.82	20.7
10	256QAM	1	25	16.81	16.87	16.83	
10	256QAM	1	49	16.77	16.78	16.76	
10	256QAM	25	0	17.13	17.17	17.01	20.7
10	256QAM	25	12	17.09	17.09	17.02	
10	256QAM	25	25	17.06	17.14	17.09	
10	256QAM	50	0	17.12	17.14	17.00	
Channel				132997	133047	133097	Tune-up limit (dBm)
Frequency (MHz)				1697.5	1702.5	1707.5	
5	QPSK	1	0	20.30	20.35	20.22	20.7
5	QPSK	1	12	20.22	20.35	20.14	
5	QPSK	1	24	20.12	20.16	20.15	
5	QPSK	12	0	20.13	20.10	20.13	20.7
5	QPSK	12	7	20.14	20.20	20.16	
5	QPSK	12	13	20.17	20.15	20.10	
5	QPSK	25	0	20.05	20.02	19.93	
5	16QAM	1	0	20.22	20.30	20.28	20.7
5	16QAM	1	12	20.22	20.25	20.25	
5	16QAM	1	24	20.07	20.17	20.00	
5	16QAM	12	0	20.14	20.17	20.07	20.7
5	16QAM	12	7	20.17	20.17	20.07	
5	16QAM	12	13	20.10	20.20	20.04	
5	16QAM	25	0	20.06	20.16	20.10	
5	64QAM	1	0	20.12	20.09	20.01	20.7
5	64QAM	1	12	20.25	20.24	20.20	
5	64QAM	1	24	20.11	20.24	20.10	
5	64QAM	12	0	19.19	19.21	19.19	20.7
5	64QAM	12	7	19.22	19.21	19.18	
5	64QAM	12	13	19.18	19.22	19.19	
5	64QAM	25	0	19.14	19.21	19.12	
5	256QAM	1	0	16.87	16.96	16.90	20.7
5	256QAM	1	12	16.84	16.94	16.86	
5	256QAM	1	24	16.76	16.83	16.73	
5	256QAM	12	0	17.12	17.12	17.00	20.7
5	256QAM	12	7	17.10	17.07	17.02	
5	256QAM	12	13	17.08	17.14	17.10	
5	256QAM	25	0	17.07	17.15	17.03	

<TDD LTE SAR Measurement>

TDD LTE configuration setup for SAR measurement

SAR was tested with a fixed periodic duty factor according to the highest transmission duty factor implemented for the device and supported by 3GPP.

- 3GPP TS 36.211 section 4.2 for Type 2 Frame Structure and Table 4.2-2 for uplink-downlink configurations
- “special subframe S” contains both uplink and downlink transmissions, it has been taken into consideration to determine the transmission duty factor according to the worst case uplink and downlink cyclic prefix requirements for UpPTS
- Establishing connections with base station simulators ensure a consistent means for testing SAR and recommended for evaluating SAR. The Base station simulator was used for LTE output power measurements and SAR testing.

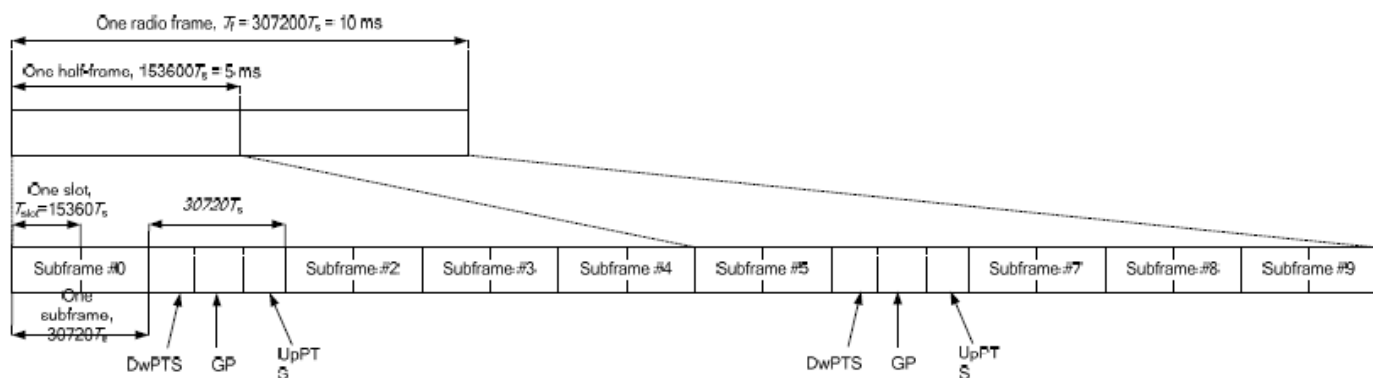


Figure 4.2-1: Frame structure type 2 (for 5 ms switch-point periodicity).

Table 4.2-2: Uplink-downlink configurations.

Uplink-downlink configuration	Downlink-to-Uplink Switch-point periodicity	Subframe number									
		0	1	2	3	4	5	6	7	8	9
0	5 ms	D	S	U	U	U	D	S	U	U	U
1	5 ms	D	S	U	U	D	D	S	U	U	D
2	5 ms	D	S	U	D	D	D	S	U	D	D
3	10 ms	D	S	U	U	U	D	D	D	D	D
4	10 ms	D	S	U	U	D	D	D	D	D	D
5	10 ms	D	S	U	D	D	D	D	D	D	D
6	5 ms	D	S	U	U	U	D	S	U	U	D

Table 4.2-1: Configuration of special subframe (lengths of DwPTS/GP/UpPTS).

Special subframe configuration	Normal cyclic prefix in downlink			Extended cyclic prefix in downlink		
	DwPTS	UpPTS		DwPTS	UpPTS	
		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink
0	$6592 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$	$7680 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$
1	$19760 \cdot T_s$			$20480 \cdot T_s$		
2	$21952 \cdot T_s$			$23040 \cdot T_s$		
3	$24144 \cdot T_s$			$25600 \cdot T_s$		
4	$26336 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$	$7680 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$
5	$6592 \cdot T_s$			$20480 \cdot T_s$		
6	$19760 \cdot T_s$			$23040 \cdot T_s$		
7	$21952 \cdot T_s$			$12800 \cdot T_s$	-	-
8	$24144 \cdot T_s$			-		
9	$13168 \cdot T_s$			-		

Special subframe (30720·T _s): Normal cyclic prefix in downlink (UpPTS)			
	Special subframe configuration	Normal cyclic prefix in uplink	Extended cyclic prefix in uplink
Uplink duty factor in one special subframe	0~4	7.13%	8.33%
	5~9	14.3%	16.7%

Special subframe(30720·T _s): Extended cyclic prefix in downlink (UpPTS)			
	Special subframe configuration	Normal cyclic prefix in uplink	Extended cyclic prefix in uplink
Uplink duty factor in one special subframe	0~3	7.13%	8.33%
	4~7	14.3%	16.7%

The highest duty factor is resulted from:

- i. Uplink-downlink configuration: 0. In a half-frame consisted of 5 subframes, uplink operation is in 3 uplink subframes and 1 special subframe.
- ii. special subframe configuration: 5-9 for normal cyclic prefix in downlink, 4-7 for extended cyclic prefix in downlink
- iii. for special subframe with extended cyclic prefix in uplink, the total uplink duty factor in one half-frame is: $(3+0.167)/5 = 63.3\%$
- iv. for special subframe with normal cyclic prefix in uplink, the total uplink duty factor in one half-frame is: $(3+0.143)/5 = 62.9\%$
- v. For TDD LTE SAR measurement, the duty cycle 1:1.59 (62.9 %) was used perform testing and considering the theoretical duty cycle of 63.3% for extended cyclic prefix in the uplink, and the theoretical duty cycle of 62.9% for normal cyclic prefix in uplink, a scaling factor of extended cyclic prefix $63.3\%/62.9\% = 1.006$ is applied to scale-up the measured SAR result. The scaled TDD LTE SAR = measured SAR (W/kg)* Tune-up Scaling Factor* scaling factor for extended cyclic prefix.
- vi. The device supports Power Class 3 uplink-downlink configurations 0 and 6, and Power Class 2 uplink-downlink configurations 1 to 5 operations for LTE Band 41.
- vii. The highest available duty cycle for Power Class 2 operation is 43.3% using UL-DL configuration 1, for Power Class 3 operation is 63.3% using UL-DL configuration 0. Per FCC Guidance, all SAR tests were performed using Power Class 3. SAR with Power Class 2 at the available duty factor was additionally performed for the Power Class 3 configuration with the highest SAR among all exposure condition.



<LTE Band 38_Ant Main_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	23.05	23.07	23.09	24.5
20	QPSK	1	49	23.18	23.16	23.13	
20	QPSK	1	99	23.16	23.09	23.05	
20	QPSK	50	0	22.08	22.10	22.09	23.5
20	QPSK	50	24	22.15	22.12	22.11	
20	QPSK	50	50	22.13	22.10	22.03	
20	QPSK	100	0	22.12	22.07	22.06	
20	16QAM	1	0	22.05	22.08	22.07	23.5
20	16QAM	1	49	22.12	22.11	22.09	
20	16QAM	1	99	22.12	22.08	22.01	
20	16QAM	50	0	21.09	21.11	21.12	22.5
20	16QAM	50	24	21.19	21.17	21.10	
20	16QAM	50	50	21.14	21.14	21.06	
20	16QAM	100	0	21.14	21.11	21.09	
20	64QAM	1	0	21.09	21.00	21.03	22.5
20	64QAM	1	49	21.22	21.20	21.07	
20	64QAM	1	99	21.09	21.05	21.02	
20	64QAM	50	0	20.15	20.15	20.13	21.5
20	64QAM	50	24	20.25	20.13	20.17	
20	64QAM	50	50	20.19	20.18	20.06	
20	64QAM	100	0	20.18	20.11	20.11	
20	256QAM	1	0	18.21	18.15	18.12	19.5
20	256QAM	1	49	18.21	18.16	18.14	
20	256QAM	1	99	17.86	17.82	17.79	
20	256QAM	50	0	18.23	18.19	18.16	19.5
20	256QAM	50	24	18.19	18.14	18.14	
20	256QAM	50	50	18.19	18.16	18.15	
20	256QAM	100	0	18.11	18.08	18.04	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	23.04	23.05	23.08	24.5
15	QPSK	1	37	23.17	23.15	23.11	
15	QPSK	1	74	23.14	23.06	23.04	
15	QPSK	36	0	22.07	22.09	22.07	23.5
15	QPSK	36	20	22.14	22.11	22.10	
15	QPSK	36	39	22.10	22.08	22.00	
15	QPSK	75	0	22.09	22.05	22.05	23.5
15	16QAM	1	0	22.02	22.06	22.04	
15	16QAM	1	37	22.09	22.09	22.08	
15	16QAM	1	74	22.10	22.07	21.98	22.5
15	16QAM	36	0	21.06	21.09	21.11	
15	16QAM	36	20	21.17	21.15	21.09	
15	16QAM	36	39	21.11	21.13	21.05	
15	16QAM	75	0	21.11	21.09	21.07	22.5
15	64QAM	1	0	20.97	20.91	20.95	
15	64QAM	1	37	21.12	21.15	20.98	
15	64QAM	1	74	20.96	21.02	20.85	
15	64QAM	36	0	20.10	20.12	20.09	21.5
15	64QAM	36	20	20.17	20.07	20.08	
15	64QAM	36	39	20.11	20.10	19.89	
15	64QAM	75	0	20.00	19.95	20.03	
15	256QAM	1	0	18.14	18.02	17.98	19.5
15	256QAM	1	37	18.13	18.03	18.04	
15	256QAM	1	74	17.81	17.71	17.70	
15	256QAM	36	0	18.17	18.05	18.06	19.5
15	256QAM	36	20	18.04	18.08	18.01	



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15	256QAM	36	39	18.04	18.03	18.02	
15	256QAM	75	0	17.99	17.96	17.92	
Channel				37800	38000	38200	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	23.02	23.05	23.07	24.5
10	QPSK	1	25	23.15	23.14	23.11	
10	QPSK	1	49	23.13	23.08	23.03	
10	QPSK	25	0	22.05	22.08	22.08	23.5
10	QPSK	25	12	22.14	22.09	22.09	
10	QPSK	25	25	22.10	22.08	22.02	
10	QPSK	50	0	22.11	22.05	22.05	
10	16QAM	1	0	22.04	22.06	22.04	23.5
10	16QAM	1	25	22.10	22.08	22.06	
10	16QAM	1	49	22.09	22.06	22.00	
10	16QAM	25	0	21.07	21.10	21.10	22.5
10	16QAM	25	12	21.16	21.14	21.08	
10	16QAM	25	25	21.11	21.11	21.05	
10	16QAM	50	0	21.12	21.10	21.07	
10	64QAM	1	0	20.98	20.93	20.88	22.5
10	64QAM	1	25	21.13	21.10	21.03	
10	64QAM	1	49	20.99	20.93	20.96	
10	64QAM	25	0	19.98	20.12	20.00	21.5
10	64QAM	25	12	20.10	19.99	20.03	
10	64QAM	25	25	20.10	20.13	19.89	
10	64QAM	50	0	20.05	19.97	19.95	
10	256QAM	1	0	18.08	18.05	18.03	19.5
10	256QAM	1	25	18.06	18.11	18.07	
10	256QAM	1	49	17.71	17.69	17.73	
10	256QAM	25	0	18.09	18.13	18.06	19.5
10	256QAM	25	12	18.06	18.09	18.05	
10	256QAM	25	25	18.12	18.01	18.04	
10	256QAM	50	0	17.97	18.02	17.90	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	23.02	23.05	23.07	24.5
5	QPSK	1	12	23.16	23.13	23.12	
5	QPSK	1	24	23.15	23.08	23.04	
5	QPSK	12	0	22.07	22.08	22.06	23.5
5	QPSK	12	7	22.12	22.11	22.10	
5	QPSK	12	13	22.10	22.07	22.00	
5	QPSK	25	0	22.10	22.06	22.04	
5	16QAM	1	0	22.04	22.05	22.04	23.5
5	16QAM	1	12	22.09	22.09	22.08	
5	16QAM	1	24	22.10	22.05	22.00	
5	16QAM	12	0	21.07	21.09	21.09	22.5
5	16QAM	12	7	21.18	21.15	21.08	
5	16QAM	12	13	21.12	21.11	21.03	
5	16QAM	25	0	21.13	21.10	21.08	
5	64QAM	1	0	21.06	20.96	20.92	22.5
5	64QAM	1	12	21.15	21.09	20.98	
5	64QAM	1	24	21.06	20.89	20.93	
5	64QAM	12	0	20.08	20.11	19.97	21.5
5	64QAM	12	7	20.08	19.95	20.14	
5	64QAM	12	13	20.10	20.00	19.98	
5	64QAM	25	0	20.01	20.04	20.02	
5	256QAM	1	0	18.14	18.08	18.01	19.5
5	256QAM	1	12	18.13	18.02	18.00	
5	256QAM	1	24	17.79	17.73	17.72	
5	256QAM	12	0	18.12	18.04	18.06	19.5
5	256QAM	12	7	18.14	18.08	18.03	
5	256QAM	12	13	18.08	18.07	18.01	
5	256QAM	25	0	17.97	18.02	17.98	



<LTE Band 38_Ant MIMO2_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	23.43	23.54	23.36	
20	QPSK	1	49	23.36	23.47	23.29	24.5
20	QPSK	1	99	23.20	23.31	23.13	
20	QPSK	50	0	22.30	22.40	22.23	
20	QPSK	50	24	22.34	22.44	22.27	23.5
20	QPSK	50	50	22.29	22.39	22.22	
20	QPSK	100	0	22.25	22.35	22.18	
20	16QAM	1	0	22.58	22.69	22.52	23.5
20	16QAM	1	49	22.48	22.59	22.42	
20	16QAM	1	99	22.43	22.54	22.37	
20	16QAM	50	0	21.26	21.36	21.20	22.5
20	16QAM	50	24	21.28	21.38	21.22	
20	16QAM	50	50	21.25	21.35	21.19	
20	16QAM	100	0	21.24	21.34	21.18	22.5
20	64QAM	1	0	21.73	21.83	21.66	
20	64QAM	1	49	21.78	21.88	21.71	
20	64QAM	1	99	21.53	21.63	21.46	21.5
20	64QAM	50	0	20.33	20.43	20.27	
20	64QAM	50	24	20.34	20.44	20.28	
20	64QAM	50	50	20.29	20.39	20.23	19.5
20	64QAM	100	0	20.28	20.38	20.22	
20	256QAM	1	0	18.27	18.39	18.22	
20	256QAM	1	49	18.26	18.36	18.16	19.5
20	256QAM	1	99	17.89	18.02	17.84	
20	256QAM	50	0	18.24	18.39	18.23	
20	256QAM	50	24	18.24	18.35	18.17	19.5
20	256QAM	50	50	18.24	18.35	18.19	
20	256QAM	100	0	18.17	18.31	18.10	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	23.34	23.46	23.34	24.5
15	QPSK	1	37	23.34	23.40	23.28	
15	QPSK	1	74	23.15	23.30	23.09	
15	QPSK	36	0	22.26	22.30	22.15	23.5
15	QPSK	36	20	22.27	22.39	22.25	
15	QPSK	36	39	22.20	22.29	22.16	
15	QPSK	75	0	22.17	22.34	22.09	23.5
15	16QAM	1	0	22.57	22.59	22.45	
15	16QAM	1	37	22.43	22.49	22.34	
15	16QAM	1	74	22.42	22.44	22.31	22.5
15	16QAM	36	0	21.17	21.32	21.13	
15	16QAM	36	20	21.26	21.30	21.15	
15	16QAM	36	39	21.22	21.33	21.14	22.5
15	16QAM	75	0	21.14	21.32	21.10	
15	64QAM	1	0	21.64	21.76	21.65	
15	64QAM	1	37	21.72	21.84	21.70	21.5
15	64QAM	1	74	21.43	21.53	21.38	
15	64QAM	36	0	20.27	20.41	20.24	
15	64QAM	36	20	20.30	20.37	20.25	19.5
15	64QAM	36	39	20.23	20.36	20.18	
15	64QAM	75	0	20.23	20.30	20.18	
15	256QAM	1	0	18.20	18.32	18.15	19.5
15	256QAM	1	37	18.20	18.27	18.11	
15	256QAM	1	74	17.80	17.95	17.76	
15	256QAM	36	0	18.20	18.33	18.20	19.5



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15	256QAM	36	20	18.21	18.29	18.09	
15	256QAM	36	39	18.17	18.28	18.15	
15	256QAM	75	0	18.14	18.25	18.02	
Channel				37800	38000	38200	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	23.38	23.44	23.33	24.5
10	QPSK	1	25	23.26	23.41	23.24	
10	QPSK	1	49	23.11	23.28	23.10	
10	QPSK	25	0	22.28	22.35	22.18	23.5
10	QPSK	25	12	22.33	22.35	22.24	
10	QPSK	25	25	22.19	22.33	22.21	
10	QPSK	50	0	22.16	22.25	22.13	23.5
10	16QAM	1	0	22.53	22.61	22.45	
10	16QAM	1	25	22.46	22.54	22.32	
10	16QAM	1	49	22.33	22.52	22.29	22.5
10	16QAM	25	0	21.20	21.28	21.11	
10	16QAM	25	12	21.18	21.37	21.16	
10	16QAM	25	25	21.19	21.29	21.15	22.5
10	16QAM	50	0	21.19	21.30	21.08	
10	64QAM	1	0	21.64	21.74	21.61	
10	64QAM	1	25	21.69	21.82	21.68	21.5
10	64QAM	1	49	21.52	21.55	21.43	
10	64QAM	25	0	20.24	20.42	20.20	
10	64QAM	25	12	20.29	20.40	20.20	19.5
10	64QAM	25	25	20.28	20.38	20.17	
10	64QAM	50	0	20.19	20.34	20.14	
10	256QAM	1	0	18.22	18.35	18.17	19.5
10	256QAM	1	25	18.23	18.30	18.08	
10	256QAM	1	49	17.82	17.94	17.81	
10	256QAM	25	0	18.19	18.33	18.18	19.5
10	256QAM	25	12	18.20	18.28	18.12	
10	256QAM	25	25	18.18	18.29	18.12	
10	256QAM	50	0	18.13	18.25	18.03	Tune-up limit (dBm)
Channel				37775	38000	38225	
Frequency (MHz)				2572.5	2595	2617.5	24.5
5	QPSK	1	0	23.38	23.52	23.28	
5	QPSK	1	12	23.28	23.44	23.22	
5	QPSK	1	24	23.15	23.29	23.07	23.5
5	QPSK	12	0	22.27	22.39	22.14	
5	QPSK	12	7	22.32	22.39	22.26	
5	QPSK	12	13	22.26	22.30	22.15	23.5
5	QPSK	25	0	22.19	22.30	22.13	
5	16QAM	1	0	22.55	22.64	22.43	
5	16QAM	1	12	22.38	22.55	22.37	22.5
5	16QAM	1	24	22.34	22.51	22.35	
5	16QAM	12	0	21.19	21.33	21.14	
5	16QAM	12	7	21.23	21.35	21.13	22.5
5	16QAM	12	13	21.23	21.29	21.17	
5	16QAM	25	0	21.22	21.24	21.13	
5	64QAM	1	0	21.65	21.79	21.63	21.5
5	64QAM	1	12	21.72	21.81	21.68	
5	64QAM	1	24	21.46	21.59	21.43	
5	64QAM	12	0	20.29	20.39	20.22	19.5
5	64QAM	12	7	20.25	20.35	20.19	
5	64QAM	12	13	20.26	20.33	20.14	
5	64QAM	25	0	20.22	20.28	20.15	19.5
5	256QAM	1	0	18.24	18.32	18.15	
5	256QAM	1	12	18.19	18.29	18.11	
5	256QAM	1	24	17.83	17.93	17.77	19.5
5	256QAM	12	0	18.16	18.32	18.16	
5	256QAM	12	7	18.20	18.32	18.09	
5	256QAM	12	13	18.21	18.29	18.15	19.5
5	256QAM	25	0	18.14	18.26	18.07	



<LTE Band 41_Ant Main_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	23.56	23.72	23.67	23.63	23.59	25
20	QPSK	1	49	23.63	23.79	23.77	23.78	23.65	
20	QPSK	1	99	23.59	23.76	23.75	23.71	23.54	
20	QPSK	50	0	22.49	22.66	22.74	22.69	22.59	24
20	QPSK	50	24	22.63	22.83	22.79	22.81	22.62	
20	QPSK	50	50	22.61	22.78	22.77	22.78	22.60	
20	QPSK	100	0	22.58	22.74	22.71	22.67	22.54	24
20	16QAM	1	0	22.52	22.63	22.70	22.73	22.58	
20	16QAM	1	49	22.69	22.70	22.76	22.82	22.61	
20	16QAM	1	99	22.60	22.75	22.72	22.71	22.61	23
20	16QAM	50	0	21.53	21.67	21.74	21.67	21.58	
20	16QAM	50	24	21.67	21.80	21.78	21.79	21.60	
20	16QAM	50	50	21.62	21.77	21.84	21.75	21.63	23
20	16QAM	100	0	21.58	21.75	21.73	21.67	21.56	
20	64QAM	1	0	21.42	21.54	21.58	21.53	21.49	
20	64QAM	1	49	21.52	21.65	21.78	21.70	21.58	23
20	64QAM	1	99	21.54	21.66	21.76	21.61	21.45	
20	64QAM	50	0	20.48	20.62	20.70	20.66	20.56	
20	64QAM	50	24	20.64	20.77	20.75	20.79	20.57	22
20	64QAM	50	50	20.58	20.77	20.80	20.73	20.61	
20	64QAM	100	0	20.55	20.74	20.71	20.67	20.52	
20	256QAM	1	0	18.26	18.46	18.47	18.40	18.26	20
20	256QAM	1	49	18.42	18.60	18.58	18.50	18.38	
20	256QAM	1	99	18.14	18.34	18.35	18.28	18.16	
20	256QAM	50	0	18.34	18.54	18.53	18.48	18.34	20
20	256QAM	50	24	18.36	18.57	18.55	18.49	18.36	
20	256QAM	50	50	18.41	18.55	18.57	18.49	18.34	
20	256QAM	100	0	18.31	18.49	18.48	18.43	18.28	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	23.53	23.62	23.63	23.51	23.51	25.00
15	QPSK	1	37	23.52	23.75	23.73	23.67	23.58	
15	QPSK	1	74	23.52	23.66	23.66	23.67	23.43	
15	QPSK	36	0	22.42	22.56	22.66	22.63	22.55	24
15	QPSK	36	20	22.54	22.72	22.76	22.71	22.49	
15	QPSK	36	39	22.54	22.68	22.68	22.72	22.55	
15	QPSK	75	0	22.53	22.61	22.59	22.61	22.43	24
15	16QAM	1	0	22.43	22.57	22.65	22.60	22.46	
15	16QAM	1	37	22.58	22.60	22.73	22.76	22.54	
15	16QAM	1	74	22.49	22.68	22.62	22.64	22.57	23
15	16QAM	36	0	21.43	21.56	21.65	21.57	21.46	
15	16QAM	36	20	21.61	21.67	21.67	21.71	21.49	
15	16QAM	36	39	21.54	21.68	21.77	21.70	21.50	23
15	16QAM	75	0	21.46	21.71	21.60	21.64	21.48	
15	64QAM	1	0	21.35	21.45	21.53	21.43	21.46	
15	64QAM	1	37	21.49	21.61	21.67	21.66	21.49	22
15	64QAM	1	74	21.48	21.58	21.70	21.48	21.42	
15	64QAM	36	0	20.39	20.56	20.57	20.57	20.43	
15	64QAM	36	20	20.57	20.70	20.62	20.68	20.49	22
15	64QAM	36	39	20.55	20.73	20.67	20.64	20.57	
15	64QAM	75	0	20.49	20.66	20.67	20.56	20.42	
15	256QAM	1	0	18.21	18.39	18.37	18.29	18.22	20
15	256QAM	1	37	18.30	18.50	18.54	18.39	18.29	
15	256QAM	1	74	18.05	18.26	18.23	18.24	18.11	
15	256QAM	36	0	18.26	18.44	18.50	18.38	18.29	20



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15	256QAM	36	20	18.27	18.54	18.49	18.41	18.30	
15	256QAM	36	39	18.35	18.52	18.49	18.44	18.27	
15	256QAM	75	0	18.19	18.37	18.45	18.35	18.15	
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	23.44	23.69	23.59	23.57	23.46	25.00
10	QPSK	1	25	23.60	23.73	23.64	23.66	23.58	
10	QPSK	1	49	23.46	23.65	23.64	23.58	23.48	
10	QPSK	25	0	22.41	22.62	22.67	22.61	22.56	24
10	QPSK	25	12	22.53	22.75	22.72	22.70	22.51	
10	QPSK	25	25	22.56	22.68	22.66	22.73	22.56	
10	QPSK	50	0	22.52	22.63	22.66	22.56	22.50	24
10	16QAM	1	0	22.47	22.52	22.59	22.69	22.45	
10	16QAM	1	25	22.60	22.60	22.73	22.74	22.57	
10	16QAM	1	49	22.49	22.66	22.68	22.59	22.50	23
10	16QAM	25	0	21.50	21.56	21.67	21.56	21.51	
10	16QAM	25	12	21.64	21.68	21.71	21.67	21.49	
10	16QAM	25	25	21.58	21.67	21.75	21.64	21.51	23
10	16QAM	50	0	21.49	21.68	21.66	21.58	21.44	
10	64QAM	1	0	21.33	21.42	21.45	21.47	21.45	
10	64QAM	1	25	21.40	21.52	21.67	21.60	21.48	22
10	64QAM	1	49	21.41	21.55	21.69	21.55	21.33	
10	64QAM	25	0	20.43	20.53	20.66	20.55	20.53	
10	64QAM	25	12	20.52	20.67	20.70	20.67	20.48	20
10	64QAM	25	25	20.52	20.72	20.67	20.69	20.50	
10	64QAM	50	0	20.50	20.61	20.68	20.56	20.39	
10	256QAM	1	0	18.14	18.43	18.37	18.35	18.15	20
10	256QAM	1	25	18.34	18.57	18.46	18.46	18.28	
10	256QAM	1	49	18.07	18.26	18.30	18.25	18.07	
10	256QAM	25	0	18.30	18.47	18.49	18.38	18.22	20
10	256QAM	25	12	18.32	18.52	18.51	18.36	18.25	
10	256QAM	25	25	18.36	18.42	18.46	18.43	18.22	
10	256QAM	50	0	18.26	18.46	18.42	18.31	18.25	Tune-up limit (dBm)
Channel				39675	40148	40620	41093	41565	
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	25.00
5	QPSK	1	0	23.52	23.61	23.58	23.58	23.54	
5	QPSK	1	12	23.51	23.74	23.64	23.68	23.61	
5	QPSK	1	24	23.54	23.66	23.72	23.58	23.46	24
5	QPSK	12	0	22.43	22.60	22.66	22.63	22.52	
5	QPSK	12	7	22.60	22.71	22.75	22.72	22.50	
5	QPSK	12	13	22.48	22.75	22.68	22.67	22.55	24
5	QPSK	25	0	22.49	22.66	22.59	22.54	22.48	
5	16QAM	1	0	22.45	22.50	22.57	22.69	22.53	
5	16QAM	1	12	22.63	22.67	22.68	22.69	22.51	23
5	16QAM	1	24	22.55	22.71	22.65	22.68	22.56	
5	16QAM	12	0	21.46	21.59	21.65	21.55	21.47	
5	16QAM	12	7	21.58	21.74	21.74	21.71	21.56	23
5	16QAM	12	13	21.49	21.68	21.76	21.68	21.60	
5	16QAM	25	0	21.49	21.66	21.60	21.56	21.45	
5	64QAM	1	0	21.32	21.47	21.46	21.49	21.40	22
5	64QAM	1	12	21.40	21.57	21.65	21.63	21.49	
5	64QAM	1	24	21.45	21.62	21.63	21.54	21.38	
5	64QAM	12	0	20.39	20.57	20.61	20.53	20.46	20
5	64QAM	12	7	20.59	20.69	20.64	20.70	20.48	
5	64QAM	12	13	20.51	20.74	20.67	20.63	20.48	
5	64QAM	25	0	20.48	20.61	20.59	20.57	20.49	20
5	256QAM	1	0	18.21	18.38	18.44	18.37	18.15	
5	256QAM	1	12	18.35	18.52	18.55	18.45	18.27	
5	256QAM	1	24	18.03	18.22	18.31	18.20	18.07	20
5	256QAM	12	0	18.26	18.50	18.50	18.35	18.22	
5	256QAM	12	7	18.26	18.54	18.44	18.36	18.33	
5	256QAM	12	13	18.38	18.52	18.52	18.40	18.25	20
5	256QAM	25	0	18.26	18.45	18.39	18.40	18.18	



<LTE Band 41_Ant MIMO2_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	23.28	23.34	23.15	23.13	23.12	25
20	QPSK	1	49	23.21	23.27	23.08	23.06	23.05	
20	QPSK	1	99	23.16	23.22	23.03	23.09	23.09	
20	QPSK	50	0	22.23	22.29	22.11	22.10	22.10	24
20	QPSK	50	24	22.34	22.40	22.23	22.22	22.11	
20	QPSK	50	50	22.28	22.34	22.18	22.16	22.05	
20	QPSK	100	0	22.30	22.36	22.19	22.18	22.07	24
20	16QAM	1	0	22.13	22.19	22.01	22.11	22.07	
20	16QAM	1	49	22.12	22.18	22.03	22.10	22.08	
20	16QAM	1	99	22.08	22.14	22.06	22.06	22.06	23
20	16QAM	50	0	21.28	21.33	21.16	21.08	21.08	
20	16QAM	50	24	21.36	21.42	21.25	21.16	21.10	
20	16QAM	50	50	21.33	21.38	21.21	21.12	21.07	23
20	16QAM	100	0	21.30	21.35	21.18	21.09	21.04	
20	64QAM	1	0	21.18	21.23	21.06	21.11	21.09	
20	64QAM	1	49	21.12	21.17	21.00	21.07	21.06	22
20	64QAM	1	99	21.05	21.09	21.08	21.09	21.08	
20	64QAM	50	0	20.23	20.28	20.11	20.04	20.09	
20	64QAM	50	24	20.30	20.35	20.18	20.11	20.06	20
20	64QAM	50	50	20.27	20.32	20.15	20.08	20.06	
20	64QAM	100	0	20.28	20.33	20.16	20.09	20.05	
20	256QAM	1	0	18.40	18.45	18.25	18.21	18.14	20
20	256QAM	1	49	18.51	18.55	18.33	18.30	18.23	
20	256QAM	1	99	18.24	18.26	18.12	18.05	18.00	
20	256QAM	50	0	18.48	18.49	18.34	18.29	18.22	20
20	256QAM	50	24	18.50	18.55	18.33	18.29	18.22	
20	256QAM	50	50	18.47	18.47	18.35	18.28	18.20	
20	256QAM	100	0	18.39	18.40	18.25	18.22	18.15	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	23.25	23.32	23.10	23.08	23.09	25.00
15	QPSK	1	37	23.19	23.25	23.06	23.03	23.00	
15	QPSK	1	74	23.13	23.18	23.01	23.05	23.04	
15	QPSK	36	0	22.17	22.24	22.08	22.05	22.07	24
15	QPSK	36	20	22.30	22.34	22.18	22.17	22.09	
15	QPSK	36	39	22.24	22.30	22.16	22.14	22.03	
15	QPSK	75	0	22.28	22.30	22.13	22.13	22.02	24
15	16QAM	1	0	22.11	22.17	22.04	22.06	22.02	
15	16QAM	1	37	22.09	22.16	22.06	22.05	22.02	
15	16QAM	1	74	22.05	22.11	22.00	22.03	22.01	23
15	16QAM	36	0	21.24	21.29	21.13	21.05	21.05	
15	16QAM	36	20	21.33	21.36	21.20	21.10	21.05	
15	16QAM	36	39	21.27	21.34	21.17	21.09	21.05	23
15	16QAM	75	0	21.26	21.31	21.16	21.06	21.01	
15	64QAM	1	0	21.14	21.21	21.02	21.05	21.05	
15	64QAM	1	37	21.08	21.13	21.06	21.01	21.03	22
15	64QAM	1	74	21.07	21.03	21.02	21.07	21.03	
15	64QAM	36	0	20.18	20.26	20.09	20.06	20.05	
15	64QAM	36	20	20.27	20.32	20.14	20.15	20.00	20
15	64QAM	36	39	20.21	20.26	20.11	20.05	20.01	
15	64QAM	75	0	20.26	20.29	20.12	20.06	20.00	
15	256QAM	1	0	18.35	18.41	18.23	18.18	18.09	20
15	256QAM	1	37	18.47	18.51	18.28	18.25	18.19	
15	256QAM	1	74	18.20	18.23	18.10	18.00	18.04	
15	256QAM	36	0	18.42	18.44	18.28	18.27	18.19	20



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15	256QAM	36	20	18.46	18.51	18.30	18.27	18.17	
15	256QAM	36	39	18.44	18.43	18.33	18.25	18.18	
15	256QAM	75	0	18.37	18.36	18.19	18.18	18.12	
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	23.22	23.30	23.13	23.11	23.11	25.00
10	QPSK	1	25	23.17	23.22	23.07	23.02	23.02	
10	QPSK	1	49	23.06	23.14	23.00	23.03	23.07	
10	QPSK	25	0	22.09	22.16	22.06	22.03	22.10	24
10	QPSK	25	12	22.27	22.28	22.11	22.09	22.07	
10	QPSK	25	25	22.20	22.22	22.08	22.09	22.00	
10	QPSK	50	0	22.22	22.25	22.10	22.09	22.00	24
10	16QAM	1	0	22.04	22.14	22.00	22.03	22.00	
10	16QAM	1	25	22.12	22.11	22.06	22.01	22.01	
10	16QAM	1	49	22.03	22.05	22.04	22.05	22.02	23
10	16QAM	25	0	21.19	21.21	21.11	21.03	21.04	
10	16QAM	25	12	21.30	21.33	21.16	21.12	21.04	
10	16QAM	25	25	21.25	21.32	21.19	21.05	21.03	23
10	16QAM	50	0	21.20	21.26	21.15	21.09	21.04	
10	64QAM	1	0	21.05	21.17	21.00	21.08	21.01	
10	64QAM	1	25	21.10	21.04	21.05	21.03	21.03	22
10	64QAM	1	49	21.03	21.01	21.05	21.04	21.03	
10	64QAM	25	0	20.11	20.17	20.10	20.07	20.02	
10	64QAM	25	12	20.18	20.29	20.10	20.13	20.01	20
10	64QAM	25	25	20.13	20.21	20.12	20.03	20.04	
10	64QAM	50	0	20.18	20.27	20.09	20.09	20.00	
10	256QAM	1	0	18.33	18.39	18.18	18.15	18.03	20
10	256QAM	1	25	18.41	18.44	18.19	18.20	18.10	
10	256QAM	1	49	18.13	18.19	18.05	18.01	18.02	
10	256QAM	25	0	18.38	18.40	18.19	18.22	18.15	20
10	256QAM	25	12	18.44	18.42	18.23	18.19	18.10	
10	256QAM	25	25	18.36	18.37	18.24	18.18	18.11	
10	256QAM	50	0	18.33	18.28	18.17	18.11	18.08	Tune-up limit (dBm)
Channel				39675	40148	40620	41093	41565	
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	25.00
5	QPSK	1	0	23.18	23.17	23.07	23.08	23.05	
5	QPSK	1	12	23.10	23.08	23.02	23.01	23.02	
5	QPSK	1	24	23.04	23.08	23.01	23.02	23.03	24
5	QPSK	12	0	22.13	22.14	22.05	22.01	22.02	
5	QPSK	12	7	22.23	22.29	22.16	22.13	22.05	
5	QPSK	12	13	22.13	22.18	22.16	22.13	22.02	24
5	QPSK	25	0	22.15	22.21	22.09	22.16	22.07	
5	16QAM	1	0	22.03	22.11	22.07	22.10	22.06	
5	16QAM	1	12	22.06	22.16	22.05	22.06	22.04	23
5	16QAM	1	24	22.07	22.08	22.08	22.00	22.00	
5	16QAM	12	0	21.27	21.28	21.10	21.00	21.08	
5	16QAM	12	7	21.28	21.42	21.19	21.16	21.10	23
5	16QAM	12	13	21.30	21.34	21.20	21.02	21.02	
5	16QAM	25	0	21.29	21.31	21.16	21.09	21.08	
5	64QAM	1	0	21.18	21.19	21.04	21.05	21.09	22
5	64QAM	1	12	21.14	21.27	21.09	21.15	21.06	
5	64QAM	1	24	21.09	21.18	21.12	21.16	21.15	
5	64QAM	12	0	20.22	20.27	20.18	20.09	20.14	20
5	64QAM	12	7	20.19	20.19	20.08	20.07	20.07	
5	64QAM	12	13	20.13	20.22	20.12	20.05	20.16	
5	64QAM	25	0	20.14	20.19	20.09	20.01	20.05	20
5	256QAM	1	0	18.22	18.35	18.23	18.12	18.17	
5	256QAM	1	12	18.38	18.42	18.27	18.23	18.30	
5	256QAM	1	24	18.07	18.10	18.04	18.04	18.03	20
5	256QAM	12	0	18.35	18.33	18.18	18.11	18.02	
5	256QAM	12	7	18.37	18.43	18.22	18.13	18.08	
5	256QAM	12	13	18.29	18.32	18.21	18.17	18.03	20
5	256QAM	25	0	18.22	18.21	18.07	18.07	18.09	



<LTE Band 41_HPUE_Ant Main_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	26.10	26.41	26.39	26.28	26.32	27
20	QPSK	1	49	26.21	26.49	26.48	26.38	26.41	
20	QPSK	1	99	25.99	26.26	26.27	26.12	26.20	
20	QPSK	50	0	25.21	25.50	25.51	25.37	25.44	26
20	QPSK	50	24	25.22	25.59	25.56	25.45	25.49	
20	QPSK	50	50	25.22	25.48	25.51	25.37	25.44	
20	QPSK	100	0	25.20	25.43	25.44	25.30	25.37	26
20	16QAM	1	0	25.24	25.57	25.56	25.40	25.48	
20	16QAM	1	49	25.43	25.77	25.75	25.63	25.66	
20	16QAM	1	99	25.21	25.55	25.55	25.43	25.47	25
20	16QAM	50	0	24.19	24.51	24.51	24.38	24.39	
20	16QAM	50	24	24.21	24.51	24.52	24.40	24.45	
20	16QAM	50	50	24.23	24.54	24.55	24.43	24.44	25
20	16QAM	100	0	24.16	24.46	24.47	24.34	24.37	
20	64QAM	1	0	24.41	24.73	24.74	24.60	24.62	
20	64QAM	1	49	24.53	24.81	24.84	24.70	24.72	25
20	64QAM	1	99	24.39	24.73	24.72	24.57	24.60	
20	64QAM	50	0	23.22	23.50	23.53	23.38	23.43	
20	64QAM	50	24	23.25	23.53	23.56	23.45	23.48	24
20	64QAM	50	50	23.19	23.50	23.53	23.42	23.42	
20	64QAM	100	0	23.14	23.48	23.47	23.32	23.36	
20	256QAM	1	0	21.38	21.73	21.72	21.57	21.64	22
20	256QAM	1	49	21.38	21.67	21.69	21.55	21.57	
20	256QAM	1	99	21.36	21.70	21.68	21.57	21.57	
20	256QAM	50	0	21.22	21.52	21.53	21.41	21.41	22
20	256QAM	50	24	21.20	21.51	21.50	21.39	21.39	
20	256QAM	50	50	21.25	21.54	21.55	21.44	21.45	
20	256QAM	100	0	21.17	21.52	21.51	21.39	21.43	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	26.01	26.36	26.32	26.17	26.22	27.00
15	QPSK	1	37	26.11	26.39	26.41	26.32	26.30	
15	QPSK	1	74	25.90	26.11	26.18	25.98	26.08	
15	QPSK	36	0	25.16	25.37	25.36	25.29	25.37	26
15	QPSK	36	20	25.12	25.50	25.51	25.33	25.37	
15	QPSK	36	39	25.16	25.37	25.36	25.23	25.38	
15	QPSK	75	0	25.06	25.35	25.33	25.15	25.22	26
15	16QAM	1	0	25.17	25.42	25.44	25.29	25.40	
15	16QAM	1	37	25.37	25.62	25.61	25.48	25.52	
15	16QAM	1	74	25.13	25.47	25.47	25.36	25.32	25
15	16QAM	36	0	24.04	24.38	24.43	24.31	24.28	
15	16QAM	36	20	24.06	24.41	24.46	24.26	24.40	
15	16QAM	36	39	24.08	24.49	24.41	24.32	24.37	25
15	16QAM	75	0	24.05	24.40	24.42	24.23	24.32	
15	64QAM	1	0	24.31	24.62	24.64	24.52	24.56	
15	64QAM	1	37	24.48	24.70	24.72	24.57	24.63	25
15	64QAM	1	74	24.24	24.59	24.62	24.43	24.46	
15	64QAM	36	0	23.14	23.37	23.40	23.28	23.34	
15	64QAM	36	20	23.16	23.45	23.42	23.39	23.37	24
15	64QAM	36	39	23.13	23.39	23.45	23.31	23.34	
15	64QAM	75	0	23.07	23.37	23.36	23.26	23.21	
15	256QAM	1	0	21.23	21.65	21.67	21.48	21.55	22
15	256QAM	1	37	21.26	21.57	21.58	21.45	21.42	
15	256QAM	1	74	21.23	21.56	21.54	21.48	21.49	
15	256QAM	36	0	21.11	21.42	21.40	21.33	21.35	22



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15	256QAM	36	20	21.15	21.38	21.38	21.30	21.31	
15	256QAM	36	39	21.12	21.49	21.40	21.38	21.40	
15	256QAM	75	0	21.03	21.44	21.42	21.29	21.33	
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	26.02	26.28	26.24	26.14	26.26	27.00
10	QPSK	1	25	26.13	26.41	26.41	26.23	26.33	
10	QPSK	1	49	25.94	26.12	26.20	26.03	26.15	
10	QPSK	25	0	25.06	25.42	25.38	25.30	25.34	26
10	QPSK	25	12	25.14	25.45	25.51	25.40	25.37	
10	QPSK	25	25	25.14	25.34	25.36	25.32	25.29	
10	QPSK	50	0	25.10	25.36	25.37	25.15	25.22	26
10	16QAM	1	0	25.19	25.48	25.41	25.27	25.36	
10	16QAM	1	25	25.29	25.68	25.67	25.48	25.61	
10	16QAM	1	49	25.13	25.43	25.40	25.30	25.32	25
10	16QAM	25	0	24.08	24.46	24.38	24.30	24.24	
10	16QAM	25	12	24.06	24.36	24.40	24.32	24.36	
10	16QAM	25	25	24.16	24.41	24.45	24.28	24.29	25
10	16QAM	50	0	24.06	24.35	24.32	24.26	24.22	
10	64QAM	1	0	24.26	24.67	24.67	24.52	24.48	
10	64QAM	1	25	24.40	24.74	24.69	24.62	24.59	25
10	64QAM	1	49	24.24	24.63	24.64	24.46	24.45	
10	64QAM	25	0	23.17	23.45	23.43	23.24	23.37	
10	64QAM	25	12	23.20	23.41	23.50	23.30	23.36	24
10	64QAM	25	25	23.05	23.40	23.44	23.35	23.32	
10	64QAM	50	0	23.00	23.37	23.35	23.26	23.21	
10	256QAM	1	0	21.27	21.66	21.60	21.46	21.49	22
10	256QAM	1	25	21.33	21.61	21.55	21.44	21.52	
10	256QAM	1	49	21.26	21.62	21.63	21.43	21.47	
10	256QAM	25	0	21.08	21.42	21.48	21.32	21.34	22
10	256QAM	25	12	21.13	21.37	21.35	21.33	21.26	
10	256QAM	25	25	21.15	21.48	21.46	21.32	21.31	
10	256QAM	50	0	21.08	21.44	21.36	21.25	21.31	
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	
5	QPSK	1	0	26.02	26.26	26.32	26.17	26.18	27.00
5	QPSK	1	12	26.11	26.39	26.33	26.25	26.32	
5	QPSK	1	24	25.94	26.16	26.12	26.06	26.15	
5	QPSK	12	0	25.07	25.38	25.40	25.25	25.37	26
5	QPSK	12	7	25.13	25.44	25.43	25.35	25.40	
5	QPSK	12	13	25.14	25.34	25.36	25.28	25.33	
5	QPSK	25	0	25.12	25.32	25.33	25.20	25.23	26
5	16QAM	1	0	25.13	25.42	25.42	25.31	25.41	
5	16QAM	1	12	25.38	25.70	25.67	25.57	25.60	
5	16QAM	1	24	25.13	25.40	25.44	25.37	25.41	25
5	16QAM	12	0	24.13	24.45	24.46	24.25	24.28	
5	16QAM	12	7	24.11	24.36	24.39	24.32	24.34	
5	16QAM	12	13	24.17	24.40	24.43	24.32	24.37	25
5	16QAM	25	0	24.09	24.37	24.36	24.25	24.23	
5	64QAM	1	0	24.30	24.62	24.59	24.54	24.51	
5	64QAM	1	12	24.42	24.70	24.72	24.64	24.67	25
5	64QAM	1	24	24.25	24.61	24.65	24.46	24.53	
5	64QAM	12	0	23.16	23.38	23.48	23.33	23.30	
5	64QAM	12	7	23.12	23.44	23.48	23.39	23.33	24
5	64QAM	12	13	23.05	23.44	23.46	23.30	23.35	
5	64QAM	25	0	23.08	23.34	23.37	23.20	23.29	
5	256QAM	1	0	21.26	21.61	21.64	21.49	21.58	22
5	256QAM	1	12	21.24	21.60	21.63	21.43	21.49	
5	256QAM	1	24	21.25	21.58	21.59	21.47	21.45	
5	256QAM	12	0	21.12	21.47	21.40	21.34	21.32	22
5	256QAM	12	7	21.14	21.42	21.45	21.33	21.31	
5	256QAM	12	13	21.18	21.49	21.49	21.31	21.31	
5	256QAM	25	0	21.03	21.47	21.37	21.28	21.36	

<LTE Band 41_HPUE_Ant MIMO2_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	25.96	26.01	25.86	25.22	25.42	27
20	QPSK	1	49	25.94	25.99	25.84	25.20	25.40	
20	QPSK	1	99	25.86	25.91	25.76	25.12	25.32	
20	QPSK	50	0	25.05	25.10	24.96	24.34	24.53	26
20	QPSK	50	24	25.14	25.19	25.04	24.42	24.61	
20	QPSK	50	50	25.12	25.17	25.02	24.40	24.61	
20	QPSK	100	0	25.09	25.14	25.00	24.38	24.57	26
20	16QAM	1	0	24.97	25.02	24.88	24.26	24.45	
20	16QAM	1	49	24.95	25.00	24.86	24.24	24.43	
20	16QAM	1	99	24.87	24.92	24.78	24.17	24.36	25
20	16QAM	50	0	24.08	24.13	23.99	23.40	23.59	
20	16QAM	50	24	24.18	24.23	24.09	23.49	23.68	
20	16QAM	50	50	24.16	24.21	24.07	23.47	23.66	25
20	16QAM	100	0	24.12	24.17	24.03	23.44	23.63	
20	64QAM	1	0	23.96	24.01	23.87	23.28	23.46	
20	64QAM	1	49	23.92	23.97	23.83	23.24	23.42	24
20	64QAM	1	99	23.84	23.89	23.75	23.16	23.34	
20	64QAM	50	0	23.03	23.07	22.94	22.37	22.55	
20	64QAM	50	24	23.15	23.19	23.06	22.49	22.67	22
20	64QAM	50	50	23.10	23.14	23.01	22.44	22.62	
20	64QAM	100	0	23.14	23.18	23.05	22.48	22.66	
20	256QAM	1	0	21.34	21.33	21.23	20.71	20.87	22
20	256QAM	1	49	21.35	21.37	21.23	20.71	20.85	
20	256QAM	1	99	21.32	21.36	21.26	20.69	20.85	
20	256QAM	50	0	21.21	21.25	21.08	20.53	20.69	22
20	256QAM	50	24	21.15	21.17	21.06	20.49	20.63	
20	256QAM	50	50	21.22	21.25	21.08	20.54	20.67	
20	256QAM	100	0	21.13	21.16	21.07	20.51	20.66	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	25.88	25.93	25.76	25.21	25.35	27.00
15	QPSK	1	37	25.91	25.96	25.78	25.14	25.35	
15	QPSK	1	74	25.84	25.81	25.73	25.04	25.28	
15	QPSK	36	0	25.04	25.05	24.95	24.26	24.47	26
15	QPSK	36	20	25.08	25.10	24.99	24.37	24.53	
15	QPSK	36	39	25.05	25.09	24.92	24.34	24.51	
15	QPSK	75	0	24.99	25.08	24.92	24.29	24.51	26
15	16QAM	1	0	24.92	24.93	24.83	24.20	24.38	
15	16QAM	1	37	24.92	24.98	24.77	24.15	24.38	
15	16QAM	1	74	24.86	24.90	24.68	24.16	24.27	25
15	16QAM	36	0	24.04	24.10	23.92	23.31	23.58	
15	16QAM	36	20	24.14	24.15	24.03	23.40	23.66	
15	16QAM	36	39	24.13	24.17	23.99	23.46	23.63	25
15	16QAM	75	0	24.08	24.12	24.00	23.43	23.58	
15	64QAM	1	0	23.88	23.94	23.81	23.24	23.45	
15	64QAM	1	37	23.88	23.87	23.75	23.17	23.38	24
15	64QAM	1	74	23.76	23.82	23.71	23.15	23.25	
15	64QAM	36	0	22.98	22.99	22.86	22.31	22.51	
15	64QAM	36	20	23.11	23.17	23.01	22.39	22.65	22
15	64QAM	36	39	23.07	23.05	23.00	22.39	22.57	
15	64QAM	75	0	23.12	23.14	22.97	22.42	22.64	
15	256QAM	1	0	21.21	21.22	21.11	20.59	20.77	22
15	256QAM	1	37	21.23	21.30	21.09	20.63	20.74	
15	256QAM	1	74	21.17	21.27	21.19	20.59	20.77	
15	256QAM	36	0	21.09	21.17	20.99	20.43	20.60	22



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15	256QAM	36	20	21.05	21.12	21.01	20.40	20.55	
15	256QAM	36	39	21.15	21.12	21.00	20.40	20.55	
15	256QAM	75	0	20.98	21.09	20.94	20.42	20.58	
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	25.95	25.96	25.78	25.16	25.35	27.00
10	QPSK	1	25	25.88	25.98	25.75	25.15	25.34	
10	QPSK	1	49	25.82	25.84	25.73	25.09	25.24	
10	QPSK	25	0	24.97	25.03	24.91	24.32	24.44	26
10	QPSK	25	12	25.13	25.15	25.01	24.34	24.60	
10	QPSK	25	25	25.03	25.08	24.99	24.39	24.59	
10	QPSK	50	0	25.06	25.12	24.97	24.28	24.54	26
10	16QAM	1	0	24.95	24.93	24.84	24.18	24.42	
10	16QAM	1	25	24.85	24.95	24.79	24.15	24.39	
10	16QAM	1	49	24.83	24.82	24.75	24.07	24.32	25
10	16QAM	25	0	24.07	24.08	23.93	23.34	23.52	
10	16QAM	25	12	24.13	24.17	24.05	23.41	23.67	
10	16QAM	25	25	24.07	24.14	23.99	23.37	23.59	25
10	16QAM	50	0	24.06	24.07	24.02	23.36	23.55	
10	64QAM	1	0	23.89	23.93	23.85	23.24	23.44	
10	64QAM	1	25	23.83	23.91	23.81	23.15	23.39	25
10	64QAM	1	49	23.79	23.83	23.68	23.13	23.26	
10	64QAM	25	0	22.96	23.05	22.91	22.27	22.50	
10	64QAM	25	12	23.09	23.16	23.03	22.41	22.59	24
10	64QAM	25	25	23.02	23.10	22.99	22.39	22.56	
10	64QAM	50	0	23.06	23.12	22.95	22.41	22.65	
10	256QAM	1	0	21.19	21.26	21.15	20.62	20.77	22
10	256QAM	1	25	21.21	21.27	21.18	20.59	20.74	
10	256QAM	1	49	21.25	21.31	21.18	20.63	20.79	
10	256QAM	25	0	21.06	21.12	20.96	20.48	20.55	22
10	256QAM	25	12	21.05	21.11	21.01	20.38	20.50	
10	256QAM	25	25	21.13	21.20	20.94	20.42	20.60	
10	256QAM	50	0	21.04	21.07	21.01	20.42	20.57	Tune-up limit (dBm)
Channel				39675	40148	40620	41093	41565	
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	27.00
5	QPSK	1	0	25.88	25.97	25.81	25.13	25.40	
5	QPSK	1	12	25.92	25.96	25.81	25.16	25.38	
5	QPSK	1	24	25.85	25.87	25.72	25.08	25.28	26
5	QPSK	12	0	24.97	25.01	24.92	24.27	24.49	
5	QPSK	12	7	25.12	25.12	24.96	24.37	24.55	
5	QPSK	12	13	25.09	25.09	24.93	24.33	24.57	26
5	QPSK	25	0	25.00	25.09	24.96	24.35	24.55	
5	16QAM	1	0	24.96	24.92	24.85	24.21	24.44	
5	16QAM	1	12	24.91	24.90	24.79	24.20	24.39	26
5	16QAM	1	24	24.78	24.85	24.73	24.16	24.33	
5	16QAM	12	0	24.07	24.10	23.95	23.35	23.56	
5	16QAM	12	7	24.16	24.21	24.07	23.42	23.61	25
5	16QAM	12	13	24.10	24.11	23.99	23.40	23.62	
5	16QAM	25	0	24.11	24.15	23.99	23.42	23.55	
5	64QAM	1	0	23.94	23.95	23.86	23.22	23.41	25
5	64QAM	1	12	23.86	23.96	23.77	23.19	23.39	
5	64QAM	1	24	23.78	23.87	23.72	23.13	23.26	
5	64QAM	12	0	23.01	23.03	22.86	22.29	22.49	24
5	64QAM	12	7	23.09	23.17	23.00	22.47	22.63	
5	64QAM	12	13	23.03	23.10	22.95	22.34	22.57	
5	64QAM	25	0	23.08	23.13	22.96	22.44	22.64	22
5	256QAM	1	0	21.28	21.27	21.16	20.66	20.74	
5	256QAM	1	12	21.25	21.32	21.09	20.65	20.72	
5	256QAM	1	24	21.26	21.21	21.13	20.60	20.70	22
5	256QAM	12	0	21.12	21.14	20.98	20.44	20.60	
5	256QAM	12	7	21.09	21.09	20.99	20.38	20.54	
5	256QAM	12	13	21.10	21.12	20.98	20.41	20.52	22
5	256QAM	25	0	21.02	21.11	20.95	20.36	20.53	

**<LTE Band 42_Ant Main_Sensor OFF>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				42190	42590	42990	
Frequency (MHz)				3460	3500	3540	
20	QPSK	1	0	22.79	22.61	22.74	24.5
20	QPSK	1	49	22.73	22.60	22.66	
20	QPSK	1	99	22.66	22.56	22.57	
20	QPSK	50	0	21.84	21.70	21.77	23.5
20	QPSK	50	24	21.82	21.68	21.70	
20	QPSK	50	50	21.74	21.62	21.68	
20	QPSK	100	0	21.78	21.63	21.74	23.5
20	16QAM	1	0	21.80	21.68	21.71	
20	16QAM	1	49	21.73	21.62	21.63	
20	16QAM	1	99	21.65	21.53	21.66	22.5
20	16QAM	50	0	20.83	20.72	20.70	
20	16QAM	50	24	20.82	20.71	20.76	
20	16QAM	50	50	20.74	20.62	20.70	22.5
20	16QAM	100	0	20.81	20.67	20.74	
20	64QAM	1	0	20.66	20.59	20.75	
20	64QAM	1	49	20.65	20.55	20.72	22.5
20	64QAM	1	99	20.63	20.50	20.61	
20	64QAM	50	0	19.82	19.73	19.74	21.5
20	64QAM	50	24	19.83	19.71	19.81	
20	64QAM	50	50	19.76	19.62	19.69	
20	64QAM	100	0	19.79	19.65	19.73	19.5
20	256QAM	1	0	17.95	17.85	17.92	
20	256QAM	1	49	18.00	17.90	17.96	
20	256QAM	1	99	17.84	17.73	17.79	19.5
20	256QAM	50	0	18.05	17.92	17.97	
20	256QAM	50	24	18.03	17.90	17.95	
20	256QAM	50	50	18.05	17.94	18.00	19.5
20	256QAM	100	0	18.01	17.91	17.96	
Channel				42165	42590	43015	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3500	3542.5	
15	QPSK	1	0	22.56	22.57	22.56	24.5
15	QPSK	1	37	22.54	22.57	22.59	
15	QPSK	1	74	22.53	22.50	22.51	
15	QPSK	36	0	21.74	21.59	21.65	23.5
15	QPSK	36	20	21.69	21.54	21.68	
15	QPSK	36	39	21.56	21.56	21.54	
15	QPSK	75	0	21.59	21.57	21.71	23.5
15	16QAM	1	0	21.62	21.56	21.59	
15	16QAM	1	37	21.71	21.53	21.59	
15	16QAM	1	74	21.66	21.50	21.52	22.5
15	16QAM	36	0	20.64	20.56	20.52	
15	16QAM	36	20	20.70	20.68	20.59	
15	16QAM	36	39	20.58	20.52	20.55	22.5
15	16QAM	75	0	20.60	20.61	20.66	
15	64QAM	1	0	20.75	20.51	20.65	
15	64QAM	1	37	20.50	20.50	20.63	22.5
15	64QAM	1	74	20.54	20.53	20.57	
15	64QAM	36	0	19.78	19.68	19.57	21.5
15	64QAM	36	20	19.76	19.61	19.73	
15	64QAM	36	39	19.74	19.54	19.53	
15	64QAM	75	0	19.76	19.51	19.61	19.5
15	256QAM	1	0	17.85	17.77	17.80	
15	256QAM	1	37	17.91	17.77	17.81	
15	256QAM	1	74	17.75	17.61	17.73	19.5
15	256QAM	36	0	17.99	17.77	17.84	



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15	256QAM	36	20	17.95	17.85	17.84	
15	256QAM	36	39	17.93	17.85	17.85	
15	256QAM	75	0	17.92	17.84	17.89	
Channel				42140	42590	43040	Tune-up limit (dBm)
Frequency (MHz)				3455	3500	3545	
10	QPSK	1	0	22.63	22.58	22.58	24.5
10	QPSK	1	25	22.65	22.52	22.60	
10	QPSK	1	49	22.54	22.52	22.54	
10	QPSK	25	0	21.70	21.67	21.54	23.5
10	QPSK	25	12	21.75	21.57	21.74	
10	QPSK	25	25	21.56	21.55	21.63	
10	QPSK	50	0	21.59	21.54	21.68	
10	16QAM	1	0	21.71	21.60	21.64	23.5
10	16QAM	1	25	21.62	21.52	21.58	
10	16QAM	1	49	21.56	21.52	21.50	
10	16QAM	25	0	20.77	20.68	20.67	22.5
10	16QAM	25	12	20.78	20.59	20.67	
10	16QAM	25	25	20.62	21.51	20.52	
10	16QAM	50	0	20.61	20.62	20.64	
10	64QAM	1	0	20.66	20.56	20.67	22.5
10	64QAM	1	25	20.51	20.53	20.57	
10	64QAM	1	49	20.53	20.53	20.54	
10	64QAM	25	0	19.72	19.67	19.61	21.5
10	64QAM	25	12	19.71	19.53	19.73	
10	64QAM	25	25	19.73	19.56	19.57	
10	64QAM	50	0	19.72	19.52	19.69	
10	256QAM	1	0	17.81	17.78	17.79	19.5
10	256QAM	1	25	17.89	17.80	17.85	
10	256QAM	1	49	17.77	17.64	17.69	
10	256QAM	25	0	17.93	17.85	17.82	19.5
10	256QAM	25	12	17.91	17.81	17.85	
10	256QAM	25	25	17.91	17.85	17.85	
10	256QAM	50	0	17.89	17.84	17.88	
Channel				42115	42590	43065	Tune-up limit (dBm)
Frequency (MHz)				3452.5	3500	3547.5	
5	QPSK	1	0	22.58	22.57	22.62	24.5
5	QPSK	1	12	22.63	22.54	22.60	
5	QPSK	1	24	22.52	22.57	22.54	
5	QPSK	12	0	21.73	21.67	21.66	23.5
5	QPSK	12	7	21.70	21.52	21.72	
5	QPSK	12	13	21.57	21.56	21.64	
5	QPSK	25	0	21.64	21.57	21.63	
5	16QAM	1	0	21.66	21.65	21.55	23.5
5	16QAM	1	12	21.60	21.54	21.50	
5	16QAM	1	24	21.65	21.51	21.51	
5	16QAM	12	0	20.65	20.69	20.61	22.5
5	16QAM	12	7	20.64	20.66	20.59	
5	16QAM	12	13	20.56	20.54	20.58	
5	16QAM	25	0	20.63	20.61	20.68	
5	64QAM	1	0	20.75	20.55	20.60	22.5
5	64QAM	1	12	20.61	20.57	20.64	
5	64QAM	1	24	20.52	20.52	20.56	
5	64QAM	12	0	19.80	19.61	19.68	21.5
5	64QAM	12	7	19.75	19.60	19.70	
5	64QAM	12	13	19.69	19.51	19.53	
5	64QAM	25	0	19.62	19.55	19.57	
5	256QAM	1	0	17.83	17.75	17.79	19.5
5	256QAM	1	12	17.95	17.81	17.89	
5	256QAM	1	24	17.71	17.61	17.67	
5	256QAM	12	0	17.91	17.81	17.84	19.5
5	256QAM	12	7	17.92	17.77	17.87	
5	256QAM	12	13	17.92	17.82	17.86	
5	256QAM	25	0	17.88	17.77	17.84	



<LTE Band 42_Ant MIMO2_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				42190	42590	42990	
Frequency (MHz)				3460	3500	3540	
20	QPSK	1	0	24.46	24.39	24.42	
20	QPSK	1	49	24.33	24.26	24.29	24.5
20	QPSK	1	99	24.31	24.24	24.27	
20	QPSK	50	0	23.38	23.31	23.34	
20	QPSK	50	24	23.41	23.34	23.36	23.5
20	QPSK	50	50	23.36	23.29	23.32	
20	QPSK	100	0	23.35	23.28	23.30	
20	16QAM	1	0	23.46	23.39	23.42	23.5
20	16QAM	1	49	23.42	23.35	23.38	
20	16QAM	1	99	23.40	23.33	23.36	
20	16QAM	50	0	22.33	22.27	22.29	22.5
20	16QAM	50	24	22.35	22.29	22.31	
20	16QAM	50	50	22.29	22.23	22.25	
20	16QAM	100	0	22.33	22.27	22.29	22.5
20	64QAM	1	0	22.48	22.42	22.44	
20	64QAM	1	49	22.47	22.41	22.43	
20	64QAM	1	99	22.46	22.40	22.42	21.5
20	64QAM	50	0	21.37	21.31	21.34	
20	64QAM	50	24	21.39	21.33	21.36	
20	64QAM	50	50	21.33	21.27	21.30	19.5
20	64QAM	100	0	21.34	21.28	21.31	
20	256QAM	1	0	19.01	18.96	18.98	
20	256QAM	1	49	19.00	18.95	18.97	19.5
20	256QAM	1	99	18.86	18.81	18.83	
20	256QAM	50	0	19.24	19.19	19.21	
20	256QAM	50	24	19.22	19.17	19.19	19.5
20	256QAM	50	50	19.15	19.10	19.12	
20	256QAM	100	0	19.23	19.18	19.20	
Channel				42165	42590	43015	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3500	3542.5	
15	QPSK	1	0	24.38	24.39	24.35	24.5
15	QPSK	1	37	24.25	24.24	24.25	
15	QPSK	1	74	24.28	24.31	24.19	
15	QPSK	36	0	23.32	23.31	23.24	23.5
15	QPSK	36	20	23.39	23.38	23.30	
15	QPSK	36	39	23.29	23.30	23.27	
15	QPSK	75	0	23.32	23.25	23.26	23.5
15	16QAM	1	0	23.43	23.39	23.35	
15	16QAM	1	37	23.32	23.35	23.35	
15	16QAM	1	74	23.31	23.36	23.27	22.5
15	16QAM	36	0	22.26	22.25	22.21	
15	16QAM	36	20	22.28	22.31	22.27	
15	16QAM	36	39	22.20	22.27	22.18	22.5
15	16QAM	75	0	22.27	22.31	22.26	
15	64QAM	1	0	22.47	22.45	22.38	
15	64QAM	1	37	22.44	22.47	22.40	21.5
15	64QAM	1	74	22.45	22.42	22.40	
15	64QAM	36	0	21.36	21.34	21.32	
15	64QAM	36	20	21.29	21.36	21.27	19.5
15	64QAM	36	39	21.31	21.28	21.21	
15	64QAM	75	0	21.32	21.27	21.24	
15	256QAM	1	0	18.95	18.86	18.88	19.5
15	256QAM	1	37	18.93	18.85	18.92	
15	256QAM	1	74	18.80	18.73	18.78	
15	256QAM	36	0	19.19	19.11	19.14	19.5



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15	256QAM	36	20	19.15	19.14	19.11	
15	256QAM	36	39	19.08	19.01	19.03	
15	256QAM	75	0	19.16	19.11	19.18	
Channel				42140	42590	43040	Tune-up limit (dBm)
Frequency (MHz)				3455	3500	3545	
10	QPSK	1	0	24.39	24.38	24.34	24.5
10	QPSK	1	25	24.25	24.31	24.24	
10	QPSK	1	49	24.28	24.25	24.25	
10	QPSK	25	0	23.37	23.36	23.24	23.5
10	QPSK	25	12	23.33	23.33	23.33	
10	QPSK	25	25	23.32	23.34	23.27	
10	QPSK	50	0	23.30	23.34	23.29	
10	16QAM	1	0	23.43	23.40	23.37	23.5
10	16QAM	1	25	23.37	23.39	23.28	
10	16QAM	1	49	23.35	23.40	23.28	
10	16QAM	25	0	22.32	22.25	22.23	22.5
10	16QAM	25	12	22.27	22.35	22.22	
10	16QAM	25	25	22.26	22.21	22.23	
10	16QAM	50	0	22.32	22.32	22.27	
10	64QAM	1	0	22.39	22.40	22.40	22.5
10	64QAM	1	25	22.44	22.47	22.35	
10	64QAM	1	49	22.37	22.46	22.37	
10	64QAM	25	0	21.30	21.32	21.29	21.5
10	64QAM	25	12	21.31	21.38	21.28	
10	64QAM	25	25	21.26	21.31	21.29	
10	64QAM	50	0	21.30	21.30	21.29	
10	256QAM	1	0	18.98	18.95	18.96	19.5
10	256QAM	1	25	18.99	18.94	18.88	
10	256QAM	1	49	18.81	18.76	18.78	
10	256QAM	25	0	19.21	19.14	19.20	19.5
10	256QAM	25	12	19.14	19.11	19.18	
10	256QAM	25	25	19.14	19.04	19.06	
10	256QAM	50	0	19.13	19.14	19.17	
Channel				42115	42590	43065	Tune-up limit (dBm)
Frequency (MHz)				3452.5	3500	3547.5	
5	QPSK	1	0	24.39	24.40	24.35	24.5
5	QPSK	1	12	24.29	24.33	24.28	
5	QPSK	1	24	24.30	24.25	24.23	
5	QPSK	12	0	23.33	23.30	23.32	23.5
5	QPSK	12	7	23.31	23.37	23.35	
5	QPSK	12	13	23.31	23.29	23.22	
5	QPSK	25	0	23.25	23.30	23.27	
5	16QAM	1	0	23.44	23.46	23.40	23.5
5	16QAM	1	12	23.35	23.37	23.30	
5	16QAM	1	24	23.36	23.40	23.34	
5	16QAM	12	0	22.29	22.29	22.26	22.5
5	16QAM	12	7	22.25	22.34	22.23	
5	16QAM	12	13	22.25	22.28	22.19	
5	16QAM	25	0	22.30	22.27	22.20	
5	64QAM	1	0	22.43	22.48	22.34	22.5
5	64QAM	1	12	22.39	22.46	22.34	
5	64QAM	1	24	22.42	22.46	22.35	
5	64QAM	12	0	21.36	21.28	21.28	21.5
5	64QAM	12	7	21.31	21.31	21.26	
5	64QAM	12	13	21.26	21.30	21.27	
5	64QAM	25	0	21.30	21.30	21.26	
5	256QAM	1	0	18.99	18.93	18.90	19.5
5	256QAM	1	12	18.99	18.86	18.93	
5	256QAM	1	24	18.81	18.71	18.81	
5	256QAM	12	0	19.20	19.14	19.13	19.5
5	256QAM	12	7	19.14	19.07	19.17	
5	256QAM	12	13	19.14	19.09	19.07	
5	256QAM	25	0	19.19	19.16	19.16	

**<LTE Band 43_Ant Main_Sensor OFF>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				44690	45090	45490	
Frequency (MHz)				3710	3750	3790	
20	QPSK	1	0	22.97	23.10	23.13	24.5
20	QPSK	1	49	22.94	22.97	23.05	
20	QPSK	1	99	22.87	22.99	23.06	
20	QPSK	50	0	22.07	22.09	22.19	23.5
20	QPSK	50	24	21.98	22.06	22.06	
20	QPSK	50	50	21.96	22.01	22.14	
20	QPSK	100	0	21.94	21.99	22.14	23.5
20	16QAM	1	0	21.98	21.99	22.08	
20	16QAM	1	49	22.00	22.14	22.10	
20	16QAM	1	99	22.13	21.98	22.18	22.5
20	16QAM	50	0	20.98	21.03	21.08	
20	16QAM	50	24	20.98	21.04	21.19	
20	16QAM	50	50	21.06	21.11	21.15	22.5
20	16QAM	100	0	20.94	21.00	21.11	
20	64QAM	1	0	20.88	20.93	20.98	
20	64QAM	1	49	21.02	21.10	21.04	22.5
20	64QAM	1	99	21.06	21.11	21.10	
20	64QAM	50	0	19.95	20.02	20.08	
20	64QAM	50	24	19.96	20.03	20.18	21.5
20	64QAM	50	50	20.03	20.08	20.12	
20	64QAM	100	0	19.96	20.01	20.15	
20	256QAM	1	0	18.09	18.18	18.32	19.5
20	256QAM	1	49	18.15	18.24	18.38	
20	256QAM	1	99	18.01	18.09	18.21	
20	256QAM	50	0	18.11	18.19	18.31	19.5
20	256QAM	50	24	18.18	18.28	18.40	
20	256QAM	50	50	18.19	18.24	18.34	
20	256QAM	100	0	18.16	18.21	18.35	
Channel				44665	45090	45515	Tune-up limit (dBm)
Frequency (MHz)				3707.5	3750	3792.5	
15	QPSK	1	0	22.89	23.03	23.03	24.5
15	QPSK	1	37	22.84	22.89	22.95	
15	QPSK	1	74	22.73	22.93	22.96	
15	QPSK	36	0	21.92	21.97	22.05	23.5
15	QPSK	36	20	21.84	21.96	21.94	
15	QPSK	36	39	21.82	21.90	21.99	
15	QPSK	75	0	21.87	21.89	22.08	23.5
15	16QAM	1	0	21.84	21.88	22.02	
15	16QAM	1	37	21.91	22.03	22.03	
15	16QAM	1	74	21.99	21.84	22.13	22.5
15	16QAM	36	0	20.87	20.92	21.00	
15	16QAM	36	20	20.91	20.98	21.10	
15	16QAM	36	39	20.91	20.96	21.10	22.5
15	16QAM	75	0	20.83	20.88	20.98	
15	64QAM	1	0	20.79	20.82	20.87	
15	64QAM	1	37	20.90	20.95	20.99	21.5
15	64QAM	1	74	20.91	21.02	21.05	
15	64QAM	36	0	19.81	19.91	19.94	
15	64QAM	36	20	19.87	19.92	20.08	19.5
15	64QAM	36	39	19.97	20.01	20.04	
15	64QAM	75	0	19.84	19.88	20.09	
15	256QAM	1	0	18.02	18.05	18.19	19.5
15	256QAM	1	37	18.07	18.10	18.28	
15	256QAM	1	74	17.91	18.00	18.16	
15	256QAM	36	0	18.02	18.14	18.17	19.5



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15	256QAM	36	20	18.09	18.13	18.30	
15	256QAM	36	39	18.11	18.12	18.26	
15	256QAM	75	0	18.06	18.13	18.21	
Channel				44640	45090	45540	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	QPSK	1	0	22.84	22.95	23.05	24.5
10	QPSK	1	25	22.82	22.83	22.90	
10	QPSK	1	49	22.82	22.89	22.95	
10	QPSK	25	0	21.94	21.96	22.05	23.5
10	QPSK	25	12	21.92	21.94	21.92	
10	QPSK	25	25	21.81	21.93	22.02	
10	QPSK	50	0	21.84	21.90	22.08	
10	16QAM	1	0	21.90	21.85	21.98	23.5
10	16QAM	1	25	21.87	22.00	21.98	
10	16QAM	1	49	22.02	21.92	22.12	
10	16QAM	25	0	20.87	20.96	20.93	22.5
10	16QAM	25	12	20.86	20.93	21.05	
10	16QAM	25	25	20.91	21.05	21.00	
10	16QAM	50	0	20.84	20.89	20.96	
10	64QAM	1	0	20.80	20.79	20.84	22.5
10	64QAM	1	25	20.88	20.97	20.95	
10	64QAM	1	49	20.91	20.96	20.95	
10	64QAM	25	0	19.80	19.88	19.98	21.5
10	64QAM	25	12	19.81	19.90	20.06	
10	64QAM	25	25	19.98	19.97	20.06	
10	64QAM	50	0	19.82	19.91	20.08	
10	256QAM	1	0	18.01	18.12	18.19	19.5
10	256QAM	1	25	18.04	18.17	18.25	
10	256QAM	1	49	17.90	17.98	18.16	
10	256QAM	25	0	17.97	18.06	18.17	19.5
10	256QAM	25	12	18.13	18.14	18.30	
10	256QAM	25	25	18.07	18.10	18.26	
10	256QAM	50	0	18.09	18.08	18.24	
Channel				44615	45090	45565	Tune-up limit (dBm)
Frequency (MHz)				3702.5	3750	3797.5	
5	QPSK	1	0	22.90	22.99	22.98	24.5
5	QPSK	1	12	22.89	22.82	22.95	
5	QPSK	1	24	22.79	22.92	23.01	
5	QPSK	12	0	21.99	21.98	22.08	23.5
5	QPSK	12	7	21.88	21.97	22.01	
5	QPSK	12	13	21.87	21.94	22.08	
5	QPSK	25	0	21.83	21.92	22.01	
5	16QAM	1	0	21.84	21.92	21.96	23.5
5	16QAM	1	12	21.87	22.08	21.98	
5	16QAM	1	24	22.06	21.91	22.11	
5	16QAM	12	0	20.86	20.88	20.97	22.5
5	16QAM	12	7	20.85	20.95	21.07	
5	16QAM	12	13	20.92	21.03	21.01	
5	16QAM	25	0	20.87	20.88	21.00	
5	64QAM	1	0	20.76	20.87	20.85	22.5
5	64QAM	1	12	20.96	20.99	20.92	
5	64QAM	1	24	20.97	21.00	21.03	
5	64QAM	12	0	19.86	19.93	20.00	21.5
5	64QAM	12	7	19.81	19.98	20.05	
5	64QAM	12	13	19.92	19.93	20.05	
5	64QAM	25	0	19.85	19.95	20.07	
5	256QAM	1	0	18.01	18.05	18.20	19.5
5	256QAM	1	12	18.00	18.11	18.23	
5	256QAM	1	24	17.88	17.97	18.14	
5	256QAM	12	0	17.96	18.10	18.25	19.5
5	256QAM	12	7	18.03	18.20	18.30	
5	256QAM	12	13	18.13	18.18	18.28	
5	256QAM	25	0	18.09	18.12	18.27	

**<LTE Band 43_Ant MIMO2_Sensor OFF>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				44690	45090	45490	
Frequency (MHz)				3710	3750	3790	
20	QPSK	1	0	24.34	24.35	24.45	
20	QPSK	1	49	24.33	24.34	24.44	24.5
20	QPSK	1	99	24.29	24.30	24.40	
20	QPSK	50	0	23.25	23.26	23.36	
20	QPSK	50	24	23.29	23.30	23.40	23.5
20	QPSK	50	50	23.26	23.27	23.37	
20	QPSK	100	0	23.23	23.24	23.34	
20	16QAM	1	0	23.27	23.28	23.38	23.5
20	16QAM	1	49	23.31	23.32	23.42	
20	16QAM	1	99	23.20	23.21	23.31	
20	16QAM	50	0	22.24	22.25	22.34	22.5
20	16QAM	50	24	22.32	22.33	22.42	
20	16QAM	50	50	22.30	22.31	22.40	
20	16QAM	100	0	22.27	22.28	22.37	22.5
20	64QAM	1	0	22.27	22.28	22.37	
20	64QAM	1	49	22.31	22.32	22.41	
20	64QAM	1	99	22.24	22.25	22.34	21.5
20	64QAM	50	0	21.28	21.29	21.38	
20	64QAM	50	24	21.34	21.35	21.44	
20	64QAM	50	50	21.34	21.35	21.44	19.5
20	64QAM	100	0	21.33	21.34	21.43	
20	256QAM	1	0	18.72	18.73	18.81	
20	256QAM	1	49	18.83	18.84	18.92	19.5
20	256QAM	1	99	18.80	18.81	18.89	
20	256QAM	50	0	18.97	18.98	19.06	
20	256QAM	50	24	19.07	19.08	19.16	19.5
20	256QAM	50	50	18.99	19.00	19.08	
20	256QAM	100	0	19.03	19.04	19.12	
Channel				44665	45090	45515	Tune-up limit (dBm)
Frequency (MHz)				3707.5	3750	3792.5	
15	QPSK	1	0	24.32	24.26	24.35	24.5
15	QPSK	1	37	24.29	24.26	24.41	
15	QPSK	1	74	24.26	24.28	24.39	
15	QPSK	36	0	23.15	23.16	23.32	23.5
15	QPSK	36	20	23.27	23.24	23.31	
15	QPSK	36	39	23.25	23.18	23.34	
15	QPSK	75	0	23.16	23.23	23.30	23.5
15	16QAM	1	0	23.17	23.27	23.35	
15	16QAM	1	37	23.22	23.22	23.38	
15	16QAM	1	74	23.19	23.12	23.28	22.5
15	16QAM	36	0	22.19	22.17	22.32	
15	16QAM	36	20	22.31	22.31	22.38	
15	16QAM	36	39	22.27	22.26	22.35	22.5
15	16QAM	75	0	22.17	22.22	22.27	
15	64QAM	1	0	22.26	22.22	22.30	
15	64QAM	1	37	22.23	22.28	22.31	21.5
15	64QAM	1	74	22.23	22.20	22.32	
15	64QAM	36	0	21.22	21.23	21.31	
15	64QAM	36	20	21.31	21.34	21.38	19.5
15	64QAM	36	39	21.26	21.29	21.38	
15	64QAM	75	0	21.23	21.31	21.33	
15	256QAM	1	0	18.67	18.66	18.71	19.5
15	256QAM	1	37	18.78	18.80	18.85	
15	256QAM	1	74	18.77	18.77	18.80	
15	256QAM	36	0	18.91	18.90	18.96	19.5



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15	256QAM	36	20	18.98	19.05	19.08	
15	256QAM	36	39	18.91	18.95	19.01	
15	256QAM	75	0	19.00	18.99	19.06	
Channel				44640	45090	45540	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	QPSK	1	0	24.27	24.29	24.42	24.5
10	QPSK	1	25	24.28	24.33	24.38	
10	QPSK	1	49	24.22	24.23	24.33	
10	QPSK	25	0	23.16	23.16	23.31	23.5
10	QPSK	25	12	23.25	23.27	23.36	
10	QPSK	25	25	23.25	23.17	23.31	
10	QPSK	50	0	23.20	23.14	23.26	
10	16QAM	1	0	23.22	23.26	23.32	23.5
10	16QAM	1	25	23.28	23.28	23.38	
10	16QAM	1	49	23.16	23.11	23.23	
10	16QAM	25	0	22.17	22.19	22.32	22.5
10	16QAM	25	12	22.30	22.27	22.35	
10	16QAM	25	25	22.25	22.27	22.31	
10	16QAM	50	0	22.21	22.23	22.33	
10	64QAM	1	0	22.17	22.21	22.35	22.5
10	64QAM	1	25	22.21	22.30	22.33	
10	64QAM	1	49	22.20	22.24	22.28	
10	64QAM	25	0	21.20	21.22	21.31	21.5
10	64QAM	25	12	21.25	21.27	21.36	
10	64QAM	25	25	21.26	21.29	21.43	
10	64QAM	50	0	21.27	21.33	21.33	
10	256QAM	1	0	18.64	18.70	18.75	19.5
10	256QAM	1	25	18.75	18.81	18.89	
10	256QAM	1	49	18.72	18.76	18.86	
10	256QAM	25	0	18.94	18.88	18.97	19.5
10	256QAM	25	12	19.04	19.03	19.12	
10	256QAM	25	25	18.96	18.90	19.01	
10	256QAM	50	0	18.95	18.99	19.02	
Channel				44615	45090	45565	Tune-up limit (dBm)
Frequency (MHz)				3702.5	3750	3797.5	
5	QPSK	1	0	24.28	24.30	24.41	24.5
5	QPSK	1	12	24.27	24.33	24.39	
5	QPSK	1	24	24.20	24.25	24.35	
5	QPSK	12	0	23.15	23.24	23.32	23.5
5	QPSK	12	7	23.23	23.22	23.31	
5	QPSK	12	13	23.25	23.22	23.31	
5	QPSK	25	0	23.20	23.22	23.27	
5	16QAM	1	0	23.22	23.23	23.29	23.5
5	16QAM	1	12	23.23	23.22	23.39	
5	16QAM	1	24	23.18	23.13	23.21	
5	16QAM	12	0	22.18	22.17	22.30	22.5
5	16QAM	12	7	22.23	22.25	22.36	
5	16QAM	12	13	22.29	22.29	22.33	
5	16QAM	25	0	22.20	22.19	22.28	
5	64QAM	1	0	22.24	22.18	22.35	22.5
5	64QAM	1	12	22.28	22.26	22.35	
5	64QAM	1	24	22.19	22.20	22.32	
5	64QAM	12	0	21.26	21.27	21.29	21.5
5	64QAM	12	7	21.30	21.32	21.38	
5	64QAM	12	13	21.27	21.32	21.34	
5	64QAM	25	0	21.30	21.26	21.37	
5	256QAM	1	0	18.62	18.66	18.77	19.5
5	256QAM	1	12	18.79	18.81	18.88	
5	256QAM	1	24	18.77	18.75	18.85	
5	256QAM	12	0	18.87	18.93	19.00	19.5
5	256QAM	12	7	19.03	19.02	19.08	
5	256QAM	12	13	18.90	18.94	19.01	
5	256QAM	25	0	18.99	18.94	19.03	

<LTE Band 48_Ant Main_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				55340	55830	56150	56640	
Frequency (MHz)				3560	3609	3641	3690	
20	QPSK	1	0	20.79	20.61	20.60	20.71	21.8
20	QPSK	1	49	20.71	20.60	20.59	20.71	
20	QPSK	1	99	20.61	20.43	20.41	20.61	
20	QPSK	50	0	19.83	19.71	19.63	19.75	20.8
20	QPSK	50	24	19.80	19.64	19.58	19.74	
20	QPSK	50	50	19.68	19.54	19.55	19.69	
20	QPSK	100	0	19.74	19.61	19.59	19.66	20.8
20	16QAM	1	0	19.79	19.58	19.65	19.82	
20	16QAM	1	49	19.70	19.60	19.55	19.72	
20	16QAM	1	99	19.54	19.44	19.40	19.64	19.8
20	16QAM	50	0	18.84	18.68	18.58	18.77	
20	16QAM	50	24	18.79	18.68	18.66	18.74	
20	16QAM	50	50	18.72	18.58	18.55	18.70	19.8
20	16QAM	100	0	18.76	18.59	18.57	18.70	
20	64QAM	1	0	18.80	18.55	18.60	18.77	
20	64QAM	1	49	18.61	18.53	18.59	18.71	19.8
20	64QAM	1	99	18.55	18.40	18.40	18.47	
20	64QAM	50	0	17.82	17.67	17.60	17.77	
20	64QAM	50	24	17.80	17.64	17.65	17.74	18.8
20	64QAM	50	50	17.75	17.52	17.55	17.76	
20	64QAM	100	0	17.79	17.58	17.58	17.70	
20	256QAM	1	0	15.76	15.52	15.55	15.66	16.8
20	256QAM	1	49	15.86	15.69	15.68	15.79	
20	256QAM	1	99	15.89	15.68	15.71	15.80	
20	256QAM	50	0	15.90	15.71	15.70	15.82	16.8
20	256QAM	50	24	16.04	15.83	15.81	15.95	
20	256QAM	50	50	15.99	15.79	15.75	15.90	
20	256QAM	100	0	15.95	15.76	15.75	15.90	
Channel				55315	55820	56160	56665	Tune-up limit (dBm)
Frequency (MHz)				3557.5	3608	3642	3692.5	
15	QPSK	1	0	20.73	20.47	20.54	20.63	21.8
15	QPSK	1	37	20.63	20.45	20.49	20.63	
15	QPSK	1	74	20.55	20.38	20.33	20.51	
15	QPSK	36	0	19.70	19.65	19.52	19.68	20.8
15	QPSK	36	20	19.72	19.57	19.52	19.60	
15	QPSK	36	39	19.57	19.45	19.40	19.55	
15	QPSK	75	0	19.60	19.54	19.51	19.57	20.8
15	16QAM	1	0	19.64	19.45	19.55	19.71	
15	16QAM	1	37	19.57	19.55	19.50	19.62	
15	16QAM	1	74	19.45	19.34	19.26	19.50	19.8
15	16QAM	36	0	18.70	18.62	18.45	18.69	
15	16QAM	36	20	18.66	18.53	18.51	18.62	
15	16QAM	36	39	18.57	18.49	18.42	18.61	19.8
15	16QAM	75	0	18.61	18.53	18.50	18.60	
15	64QAM	1	0	18.75	18.42	18.47	18.62	
15	64QAM	1	37	18.53	18.41	18.52	18.57	18.8
15	64QAM	1	74	18.45	18.32	18.33	18.34	
15	64QAM	36	0	17.72	17.57	17.54	17.67	
15	64QAM	36	20	17.67	17.54	17.58	17.63	16.8
15	64QAM	36	39	17.68	17.43	17.42	17.62	
15	64QAM	75	0	17.65	17.44	17.45	17.59	
15	256QAM	1	0	15.67	15.40	15.40	15.52	16.8
15	256QAM	1	37	15.72	15.57	15.53	15.71	
15	256QAM	1	74	15.74	15.62	15.64	15.70	
15	256QAM	36	0	15.76	15.65	15.62	15.69	16.8



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15	256QAM	36	20	15.93	15.71	15.72	15.88	
15	256QAM	36	39	15.87	15.68	15.69	15.84	
15	256QAM	75	0	15.83	15.66	15.65	15.81	
Channel				55290	55815	56165	56690	Tune-up limit (dBm)
Frequency (MHz)				3555	3607.5	3642.5	3695	
10	QPSK	1	0	20.69	20.48	20.49	20.64	21.8
10	QPSK	1	25	20.58	20.51	20.53	20.60	
10	QPSK	1	49	20.49	20.38	20.26	20.55	
10	QPSK	25	0	19.75	19.58	19.55	19.62	20.8
10	QPSK	25	12	19.69	19.57	19.53	19.67	
10	QPSK	25	25	19.61	19.40	19.50	19.56	
10	QPSK	50	0	19.60	19.55	19.54	19.55	
10	16QAM	1	0	19.71	19.44	19.50	19.72	20.8
10	16QAM	1	25	19.59	19.55	19.46	19.61	
10	16QAM	1	49	19.39	19.36	19.26	19.56	
10	16QAM	25	0	18.71	18.62	18.43	18.71	19.8
10	16QAM	25	12	18.72	18.58	18.59	18.60	
10	16QAM	25	25	18.57	18.50	18.44	18.60	
10	16QAM	50	0	18.69	18.49	18.47	18.55	
10	64QAM	1	0	18.72	18.44	18.51	18.71	19.8
10	64QAM	1	25	18.47	18.40	18.46	18.59	
10	64QAM	1	49	18.47	18.32	18.28	18.32	
10	64QAM	25	0	17.73	17.54	17.48	17.63	18.8
10	64QAM	25	12	17.70	17.54	17.59	17.62	
10	64QAM	25	25	17.62	17.41	17.42	17.64	
10	64QAM	50	0	17.66	17.49	17.47	17.59	
10	256QAM	1	0	15.62	15.42	15.41	15.60	16.8
10	256QAM	1	25	15.72	15.54	15.63	15.70	
10	256QAM	1	49	15.83	15.53	15.63	15.69	
10	256QAM	25	0	15.83	15.58	15.57	15.71	16.8
10	256QAM	25	12	15.89	15.77	15.67	15.87	
10	256QAM	25	25	15.93	15.66	15.70	15.76	
10	256QAM	50	0	15.83	15.69	15.64	15.85	
Channel				55265	55810	56170	56715	Tune-up limit (dBm)
Frequency (MHz)				3552.5	3607	3643	3697.5	
5	QPSK	1	0	20.73	20.55	20.45	20.65	21.8
5	QPSK	1	12	20.56	20.45	20.44	20.63	
5	QPSK	1	24	20.46	20.31	20.28	20.49	
5	QPSK	12	0	19.68	19.56	19.57	19.66	20.8
5	QPSK	12	7	19.68	19.58	19.46	19.63	
5	QPSK	12	13	19.60	19.39	19.50	19.57	
5	QPSK	25	0	19.63	19.56	19.50	19.59	
5	16QAM	1	0	19.66	19.45	19.50	19.73	20.8
5	16QAM	1	12	19.64	19.54	19.42	19.59	
5	16QAM	1	24	19.42	19.29	19.30	19.59	
5	16QAM	12	0	18.78	18.60	18.46	18.62	19.8
5	16QAM	12	7	18.69	18.59	18.51	18.61	
5	16QAM	12	13	18.65	18.45	18.50	18.65	
5	16QAM	25	0	18.69	18.45	18.46	18.61	
5	64QAM	1	0	18.65	18.50	18.46	18.69	19.8
5	64QAM	1	12	18.54	18.46	18.50	18.59	
5	64QAM	1	24	18.49	18.27	18.29	18.32	
5	64QAM	12	0	17.67	17.53	17.52	17.62	18.8
5	64QAM	12	7	17.65	17.52	17.51	17.69	
5	64QAM	12	13	17.61	17.44	17.49	17.61	
5	64QAM	25	0	17.66	17.47	17.52	17.57	
5	256QAM	1	0	15.61	15.46	15.43	15.51	16.8
5	256QAM	1	12	15.71	15.61	15.53	15.68	
5	256QAM	1	24	15.80	15.59	15.66	15.67	
5	256QAM	12	0	15.76	15.58	15.64	15.68	16.8
5	256QAM	12	7	15.90	15.70	15.76	15.84	
5	256QAM	12	13	15.88	15.74	15.63	15.77	
5	256QAM	25	0	15.85	15.63	15.65	15.80	

**<LTE Band 48_Ant MIMO2_Sensor OFF>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				55340	55830	56150	56640	
Frequency (MHz)				3560	3609	3641	3690	
20	QPSK	1	0	20.89	20.77	20.77	20.80	21.8
20	QPSK	1	49	20.88	20.76	20.76	20.79	
20	QPSK	1	99	20.85	20.73	20.73	20.76	
20	QPSK	50	0	20.78	20.66	20.66	20.69	20.8
20	QPSK	50	24	20.79	20.67	20.67	20.70	
20	QPSK	50	50	20.75	20.63	20.63	20.66	
20	QPSK	100	0	20.76	20.64	20.64	20.67	20.8
20	16QAM	1	0	20.79	20.67	20.67	20.70	
20	16QAM	1	49	20.78	20.66	20.66	20.69	
20	16QAM	1	99	20.75	20.63	20.63	20.66	19.8
20	16QAM	50	0	19.74	19.63	19.63	19.66	
20	16QAM	50	24	19.76	19.65	19.65	19.68	
20	16QAM	50	50	19.70	19.59	19.59	19.62	19.8
20	16QAM	100	0	19.71	19.60	19.60	19.63	
20	64QAM	1	0	19.77	19.66	19.66	19.69	
20	64QAM	1	49	19.74	19.63	19.63	19.66	19.8
20	64QAM	1	99	19.75	19.64	19.64	19.67	
20	64QAM	50	0	18.71	18.60	18.60	18.63	18.8
20	64QAM	50	24	18.79	18.68	18.68	18.71	
20	64QAM	50	50	18.76	18.65	18.65	18.68	
20	64QAM	100	0	18.75	18.64	18.64	18.67	16.8
20	256QAM	1	0	16.37	16.27	16.27	16.30	
20	256QAM	1	49	16.49	16.39	16.39	16.42	
20	256QAM	1	99	16.41	16.31	16.31	16.34	16.8
20	256QAM	50	0	16.64	16.54	16.54	16.57	
20	256QAM	50	24	16.65	16.55	16.55	16.58	
20	256QAM	50	50	16.58	16.48	16.48	16.51	16.8
20	256QAM	100	0	16.63	16.53	16.53	16.56	
Channel				55315	55820	56160	56665	Tune-up limit (dBm)
Frequency (MHz)				3557.5	3608	3642	3692.5	
15	QPSK	1	0	20.87	20.73	20.68	20.76	21.8
15	QPSK	1	37	20.87	20.71	20.68	20.71	
15	QPSK	1	74	20.80	20.68	20.67	20.72	
15	QPSK	36	0	20.77	20.61	20.59	20.65	20.8
15	QPSK	36	20	20.74	20.64	20.65	20.69	
15	QPSK	36	39	20.70	20.59	20.61	20.57	
15	QPSK	75	0	20.73	20.62	20.54	20.66	20.8
15	16QAM	1	0	20.72	20.62	20.57	20.69	
15	16QAM	1	37	20.70	20.61	20.58	20.62	
15	16QAM	1	74	20.70	20.54	20.56	20.63	19.8
15	16QAM	36	0	19.70	19.61	19.56	19.62	
15	16QAM	36	20	19.69	19.61	19.59	19.66	
15	16QAM	36	39	19.68	19.57	19.52	19.52	19.8
15	16QAM	75	0	19.61	19.50	19.58	19.62	
15	64QAM	1	0	19.69	19.65	19.57	19.67	
15	64QAM	1	37	19.67	19.61	19.53	19.62	19.8
15	64QAM	1	74	19.73	19.57	19.55	19.65	
15	64QAM	36	0	18.68	18.55	18.55	18.56	
15	64QAM	36	20	18.70	18.58	18.62	18.69	18.8
15	64QAM	36	39	18.73	18.60	18.58	18.61	
15	64QAM	75	0	18.74	18.62	18.55	18.64	
15	256QAM	1	0	16.30	16.23	16.20	16.21	16.8
15	256QAM	1	37	16.39	16.30	16.36	16.37	
15	256QAM	1	74	16.35	16.21	16.21	16.30	
15	256QAM	36	0	16.57	16.45	16.48	16.54	16.8



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15	256QAM	36	20	16.55	16.52	16.48	16.49	
15	256QAM	36	39	16.48	16.43	16.41	16.46	
15	256QAM	75	0	16.53	16.45	16.49	16.49	
Channel				55290	55815	56165	56690	Tune-up limit (dBm)
Frequency (MHz)				3555	3607.5	3642.5	3695	
10	QPSK	1	0	20.85	20.73	20.74	20.76	21.8
10	QPSK	1	25	20.87	20.66	20.66	20.71	
10	QPSK	1	49	20.81	20.63	20.72	20.74	
10	QPSK	25	0	20.75	20.56	20.63	20.64	20.8
10	QPSK	25	12	20.75	20.62	20.59	20.65	
10	QPSK	25	25	20.68	20.59	20.57	20.60	
10	QPSK	50	0	20.71	20.60	20.54	20.63	
10	16QAM	1	0	20.70	20.60	20.59	20.61	20.8
10	16QAM	1	25	20.68	20.59	20.57	20.65	
10	16QAM	1	49	20.65	20.58	20.53	20.57	
10	16QAM	25	0	19.68	19.53	19.60	19.56	19.8
10	16QAM	25	12	19.68	19.56	19.56	19.63	
10	16QAM	25	25	19.63	19.56	19.55	19.59	
10	16QAM	50	0	19.63	19.56	19.50	19.58	
10	64QAM	1	0	19.72	19.60	19.57	19.68	19.8
10	64QAM	1	25	19.69	19.59	19.59	19.60	
10	64QAM	1	49	19.73	19.56	19.62	19.60	
10	64QAM	25	0	18.64	18.56	18.55	18.59	18.8
10	64QAM	25	12	18.77	18.60	18.63	18.63	
10	64QAM	25	25	18.71	18.57	18.64	18.67	
10	64QAM	50	0	18.65	18.56	18.61	18.64	
10	256QAM	1	0	16.33	16.22	16.18	16.22	16.8
10	256QAM	1	25	16.42	16.29	16.36	16.36	
10	256QAM	1	49	16.34	16.27	16.24	16.30	
10	256QAM	25	0	16.54	16.48	16.44	16.50	16.8
10	256QAM	25	12	16.62	16.45	16.47	16.51	
10	256QAM	25	25	16.48	16.42	16.38	16.47	
10	256QAM	50	0	16.55	16.46	16.49	16.53	
Channel				55265	55810	56170	56715	Tune-up limit (dBm)
Frequency (MHz)				3552.5	3607	3643	3697.5	
5	QPSK	1	0	20.86	20.70	20.70	20.71	21.8
5	QPSK	1	12	20.85	20.66	20.68	20.69	
5	QPSK	1	24	20.77	20.69	20.67	20.73	
5	QPSK	12	0	20.77	20.63	20.63	20.64	20.8
5	QPSK	12	7	20.75	20.66	20.66	20.60	
5	QPSK	12	13	20.72	20.56	20.61	20.61	
5	QPSK	25	0	20.68	20.57	20.59	20.58	
5	16QAM	1	0	20.70	20.59	20.64	20.62	20.8
5	16QAM	1	12	20.71	20.57	20.65	20.65	
5	16QAM	1	24	20.66	20.53	20.53	20.58	
5	16QAM	12	0	19.70	19.61	19.55	19.58	19.8
5	16QAM	12	7	19.73	19.64	19.60	19.59	
5	16QAM	12	13	19.66	19.57	19.56	19.60	
5	16QAM	25	0	19.70	19.55	19.55	19.60	
5	64QAM	1	0	19.71	19.65	19.60	19.61	19.8
5	64QAM	1	12	19.70	19.57	19.59	19.56	
5	64QAM	1	24	19.73	19.60	19.58	19.60	
5	64QAM	12	0	18.65	18.54	18.50	18.56	18.8
5	64QAM	12	7	18.73	18.58	18.67	18.62	
5	64QAM	12	13	18.67	18.62	18.59	18.64	
5	64QAM	25	0	18.71	18.61	18.57	18.66	
5	256QAM	1	0	16.34	16.20	16.22	16.27	16.8
5	256QAM	1	12	16.46	16.31	16.33	16.35	
5	256QAM	1	24	16.34	16.26	16.27	16.25	
5	256QAM	12	0	16.55	16.45	16.51	16.49	16.8
5	256QAM	12	7	16.58	16.49	16.49	16.51	
5	256QAM	12	13	16.52	16.42	16.45	16.44	
5	256QAM	25	0	16.53	16.44	16.47	16.47	

**<LTE Band 38_Ant Main_Sensor ON>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	16.66	16.67	16.63	17
20	QPSK	1	49	16.70	16.71	16.69	
20	QPSK	1	99	16.65	16.69	16.61	
20	QPSK	50	0	15.70	15.69	15.69	16
20	QPSK	50	24	15.76	15.79	15.72	
20	QPSK	50	50	15.75	15.72	15.65	
20	QPSK	100	0	15.62	15.66	15.58	16
20	16QAM	1	0	15.68	15.78	15.71	
20	16QAM	1	49	15.70	15.73	15.62	
20	16QAM	1	99	15.77	15.65	15.66	15
20	16QAM	50	0	14.72	14.73	14.73	
20	16QAM	50	24	14.82	14.74	14.72	
20	16QAM	50	50	14.77	14.72	14.65	15
20	16QAM	100	0	14.76	14.68	14.69	
20	64QAM	1	0	14.61	14.60	14.60	
20	64QAM	1	49	14.75	14.70	14.63	15
20	64QAM	1	99	14.70	14.64	14.57	
20	64QAM	50	0	13.75	13.71	13.74	
20	64QAM	50	24	13.82	13.72	13.73	14
20	64QAM	50	50	13.77	13.74	13.66	
20	64QAM	100	0	13.76	13.66	13.69	
20	256QAM	1	0	11.55	11.45	11.44	12
20	256QAM	1	49	11.61	11.51	11.53	
20	256QAM	1	99	11.39	11.32	11.30	
20	256QAM	50	0	11.62	11.53	11.56	12
20	256QAM	50	24	11.53	11.51	11.46	
20	256QAM	50	50	11.53	11.48	11.50	
20	256QAM	100	0	11.46	11.45	11.42	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	16.50	16.47	16.43	17
15	QPSK	1	37	16.57	16.60	16.59	
15	QPSK	1	74	16.46	16.50	16.44	
15	QPSK	36	0	15.54	15.57	15.59	16
15	QPSK	36	20	15.66	15.61	15.60	
15	QPSK	36	39	15.62	15.59	15.45	
15	QPSK	75	0	15.47	15.51	15.38	16
15	16QAM	1	0	15.50	15.67	15.57	
15	16QAM	1	37	15.56	15.57	15.48	
15	16QAM	1	74	15.61	15.50	15.47	15
15	16QAM	36	0	14.62	14.63	14.53	
15	16QAM	36	20	14.64	14.55	14.58	
15	16QAM	36	39	14.61	14.56	14.48	15
15	16QAM	75	0	14.62	14.56	14.57	
15	64QAM	1	0	14.41	14.45	14.45	
15	64QAM	1	37	14.57	14.52	14.45	15
15	64QAM	1	74	14.56	14.51	14.43	
15	64QAM	36	0	13.63	13.54	13.54	14
15	64QAM	36	20	13.69	13.57	13.58	
15	64QAM	36	39	13.58	13.62	13.56	
15	64QAM	75	0	13.63	13.55	13.58	12
15	256QAM	1	0	11.43	11.29	11.34	
15	256QAM	1	37	11.43	11.41	11.41	
15	256QAM	1	74	11.19	11.19	11.13	12
15	256QAM	36	0	11.45	11.41	11.36	



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15	256QAM	36	20	11.33	11.31	11.32	
15	256QAM	36	39	11.33	11.35	11.30	
15	256QAM	75	0	11.33	11.35	11.30	
Channel				37800	38000	38200	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	16.46	16.54	16.50	17
10	QPSK	1	25	16.52	16.54	16.51	
10	QPSK	1	49	16.55	16.54	16.47	
10	QPSK	25	0	15.53	15.56	15.55	16
10	QPSK	25	12	15.60	15.66	15.55	
10	QPSK	25	25	15.59	15.52	15.50	
10	QPSK	50	0	15.46	15.48	15.39	
10	16QAM	1	0	15.53	15.67	15.51	16
10	16QAM	1	25	15.56	15.53	15.45	
10	16QAM	1	49	15.57	15.45	15.46	
10	16QAM	25	0	14.60	14.61	14.58	15
10	16QAM	25	12	14.71	14.58	14.60	
10	16QAM	25	25	14.59	14.56	14.54	
10	16QAM	50	0	14.58	14.55	14.55	
10	64QAM	1	0	14.47	14.43	14.47	15
10	64QAM	1	25	14.61	14.60	14.52	
10	64QAM	1	49	14.60	14.51	14.42	
10	64QAM	25	0	13.59	13.57	13.64	14
10	64QAM	25	12	13.70	13.57	13.56	
10	64QAM	25	25	13.61	13.54	13.52	
10	64QAM	50	0	13.66	13.46	13.54	
10	256QAM	1	0	11.41	11.35	11.24	12
10	256QAM	1	25	11.47	11.32	11.33	
10	256QAM	1	49	11.28	11.21	11.20	
10	256QAM	25	0	11.51	11.41	11.37	12
10	256QAM	25	12	11.43	11.36	11.36	
10	256QAM	25	25	11.37	11.31	11.30	
10	256QAM	50	0	11.26	11.27	11.27	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	16.49	16.52	16.43	17
5	QPSK	1	12	16.60	16.53	16.53	
5	QPSK	1	24	16.52	16.53	16.50	
5	QPSK	12	0	15.53	15.53	15.53	16
5	QPSK	12	7	15.56	15.60	15.54	
5	QPSK	12	13	15.59	15.62	15.49	
5	QPSK	25	0	15.44	15.47	15.47	
5	16QAM	1	0	15.54	15.67	15.57	16
5	16QAM	1	12	15.51	15.58	15.52	
5	16QAM	1	24	15.63	15.48	15.54	
5	16QAM	12	0	14.52	14.61	14.55	15
5	16QAM	12	7	14.71	14.54	14.60	
5	16QAM	12	13	14.60	14.53	14.48	
5	16QAM	25	0	14.62	14.55	14.58	
5	64QAM	1	0	14.43	14.45	14.43	15
5	64QAM	1	12	14.57	14.60	14.44	
5	64QAM	1	24	14.50	14.49	14.43	
5	64QAM	12	0	13.64	13.56	13.56	14
5	64QAM	12	7	13.64	13.54	13.61	
5	64QAM	12	13	13.66	13.62	13.53	
5	64QAM	25	0	13.60	13.53	13.50	
5	256QAM	1	0	11.42	11.31	11.32	12
5	256QAM	1	12	11.48	11.39	11.41	
5	256QAM	1	24	11.28	11.17	11.10	
5	256QAM	12	0	11.43	11.34	11.39	12
5	256QAM	12	7	11.34	11.31	11.32	
5	256QAM	12	13	11.43	11.32	11.40	
5	256QAM	25	0	11.32	11.32	11.28	

**<LTE Band 38_Ant MIMO2_Sensor ON>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	21.94	21.98	21.91	22.5
20	QPSK	1	49	21.90	21.95	21.85	
20	QPSK	1	99	21.77	21.87	21.70	
20	QPSK	50	0	21.78	21.90	21.83	22.5
20	QPSK	50	24	21.89	21.97	21.86	
20	QPSK	50	50	21.83	21.96	21.85	
20	QPSK	100	0	21.88	21.95	21.79	22.5
20	16QAM	1	0	21.85	21.95	21.87	
20	16QAM	1	49	21.85	21.97	21.90	
20	16QAM	1	99	21.83	21.92	21.81	21.5
20	16QAM	50	0	20.87	20.91	20.83	
20	16QAM	50	24	20.81	20.89	20.78	
20	16QAM	50	50	20.86	20.93	20.83	21.5
20	16QAM	100	0	20.86	20.93	20.81	
20	64QAM	1	0	20.59	20.63	20.47	
20	64QAM	1	49	20.63	20.69	20.55	21.5
20	64QAM	1	99	20.50	20.63	20.55	
20	64QAM	50	0	19.85	19.95	19.83	20.5
20	64QAM	50	24	19.84	19.94	19.84	
20	64QAM	50	50	19.78	19.92	19.82	
20	64QAM	100	0	19.91	19.96	19.85	18.5
20	256QAM	1	0	17.25	17.29	17.17	
20	256QAM	1	49	17.40	17.47	17.31	
20	256QAM	1	99	17.20	17.33	17.26	18.5
20	256QAM	50	0	17.90	17.98	17.85	
20	256QAM	50	24	17.91	17.99	17.85	
20	256QAM	50	50	17.85	17.97	17.88	18.5
20	256QAM	100	0	17.89	17.95	17.85	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	21.88	21.91	21.82	22.5
15	QPSK	1	37	21.84	21.86	21.78	
15	QPSK	1	74	21.68	21.78	21.63	
15	QPSK	36	0	21.68	21.81	21.76	22.5
15	QPSK	36	20	21.83	21.92	21.78	
15	QPSK	36	39	21.78	21.88	21.80	
15	QPSK	75	0	21.83	21.91	21.76	22.5
15	16QAM	1	0	21.75	21.85	21.78	
15	16QAM	1	37	21.78	21.91	21.85	
15	16QAM	1	74	21.74	21.88	21.74	21.5
15	16QAM	36	0	20.79	20.86	20.80	
15	16QAM	36	20	20.77	20.86	20.73	
15	16QAM	36	39	20.83	20.90	20.74	21.5
15	16QAM	75	0	20.81	20.85	20.71	
15	64QAM	1	0	20.56	20.56	20.38	
15	64QAM	1	37	20.56	20.62	20.48	21.5
15	64QAM	1	74	20.42	20.54	20.51	
15	64QAM	36	0	19.78	19.91	19.74	20.5
15	64QAM	36	20	19.78	19.84	19.75	
15	64QAM	36	39	19.70	19.83	19.79	
15	64QAM	75	0	19.82	19.86	19.82	18.5
15	256QAM	1	0	17.17	17.23	17.14	
15	256QAM	1	37	17.33	17.40	17.25	
15	256QAM	1	74	17.11	17.23	17.17	18.5
15	256QAM	36	0	17.84	17.88	17.75	



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15	256QAM	36	20	17.83	17.95	17.80	
15	256QAM	36	39	17.75	17.89	17.85	
15	256QAM	75	0	17.84	17.87	17.79	
Channel				37800	38000	38200	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	21.89	21.91	21.84	22.5
10	QPSK	1	25	21.80	21.87	21.79	
10	QPSK	1	49	21.72	21.84	21.65	
10	QPSK	25	0	21.70	21.82	21.74	22.5
10	QPSK	25	12	21.81	21.91	21.79	
10	QPSK	25	25	21.74	21.93	21.78	
10	QPSK	50	0	21.80	21.92	21.71	
10	16QAM	1	0	21.78	21.92	21.78	22.5
10	16QAM	1	25	21.80	21.90	21.83	
10	16QAM	1	49	21.75	21.86	21.72	
10	16QAM	25	0	20.78	20.88	20.80	21.5
10	16QAM	25	12	20.73	20.79	20.70	
10	16QAM	25	25	20.80	20.88	20.74	
10	16QAM	50	0	20.83	20.89	20.71	
10	64QAM	1	0	20.54	20.53	20.38	21.5
10	64QAM	1	25	20.57	20.66	20.51	
10	64QAM	1	49	20.41	20.53	20.46	
10	64QAM	25	0	19.80	19.85	19.80	20.5
10	64QAM	25	12	19.77	19.88	19.81	
10	64QAM	25	25	19.71	19.84	19.74	
10	64QAM	50	0	19.87	19.86	19.75	
10	256QAM	1	0	17.20	17.25	17.12	18.5
10	256QAM	1	25	17.37	17.43	17.22	
10	256QAM	1	49	17.14	17.23	17.20	
10	256QAM	25	0	17.85	17.90	17.82	18.5
10	256QAM	25	12	17.86	17.92	17.77	
10	256QAM	25	25	17.78	17.91	17.83	
10	256QAM	50	0	17.83	17.88	17.80	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	21.84	21.89	21.87	22.5
5	QPSK	1	12	21.83	21.85	21.78	
5	QPSK	1	24	21.69	21.81	21.62	
5	QPSK	12	0	21.73	21.87	21.79	22.5
5	QPSK	12	7	21.79	21.89	21.81	
5	QPSK	12	13	21.76	21.93	21.78	
5	QPSK	25	0	21.84	21.91	21.74	
5	16QAM	1	0	21.77	21.91	21.81	22.5
5	16QAM	1	12	21.76	21.94	21.86	
5	16QAM	1	24	21.80	21.88	21.76	
5	16QAM	12	0	20.79	20.87	20.76	21.5
5	16QAM	12	7	20.74	20.79	20.73	
5	16QAM	12	13	20.83	20.89	20.80	
5	16QAM	25	0	20.79	20.85	20.73	
5	64QAM	1	0	20.50	20.53	20.39	21.5
5	64QAM	1	12	20.53	20.59	20.46	
5	64QAM	1	24	20.42	20.59	20.52	
5	64QAM	12	0	19.76	19.85	19.77	20.5
5	64QAM	12	7	19.74	19.90	19.80	
5	64QAM	12	13	19.72	19.89	19.79	
5	64QAM	25	0	19.87	19.86	19.79	
5	256QAM	1	0	17.17	17.24	17.13	18.5
5	256QAM	1	12	17.35	17.37	17.23	
5	256QAM	1	24	17.11	17.25	17.20	
5	256QAM	12	0	17.84	17.90	17.81	18.5
5	256QAM	12	7	17.83	17.92	17.80	
5	256QAM	12	13	17.78	17.94	17.78	
5	256QAM	25	0	17.81	17.86	17.76	



<LTE Band 41_Ant Main_Sensor ON>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	16.42	16.64	16.53	16.57	16.47	17
20	QPSK	1	49	16.54	16.71	16.66	16.70	16.56	
20	QPSK	1	99	16.53	16.67	16.60	16.57	16.49	
20	QPSK	50	0	15.49	15.67	15.66	15.62	15.54	16
20	QPSK	50	24	15.62	15.77	15.68	15.71	15.57	
20	QPSK	50	50	15.61	15.76	15.62	15.63	15.56	
20	QPSK	100	0	15.56	15.71	15.62	15.58	15.51	16
20	16QAM	1	0	15.46	15.63	15.52	15.58	15.51	
20	16QAM	1	49	15.51	15.79	15.75	15.65	15.63	
20	16QAM	1	99	15.66	15.78	15.58	15.59	15.42	15
20	16QAM	50	0	14.56	14.72	14.66	14.63	14.55	
20	16QAM	50	24	14.63	14.79	14.69	14.74	14.59	
20	16QAM	50	50	14.62	14.81	14.73	14.69	14.59	15
20	16QAM	100	0	14.58	14.73	14.62	14.60	14.49	
20	64QAM	1	0	14.44	14.63	14.56	14.42	14.42	
20	64QAM	1	49	14.47	14.60	14.65	14.71	14.58	14
20	64QAM	1	99	14.55	14.60	14.56	14.54	14.51	
20	64QAM	50	0	13.55	13.70	13.67	13.63	13.54	
20	64QAM	50	24	13.65	13.83	13.67	13.71	13.56	12
20	64QAM	50	50	13.62	13.78	13.72	13.69	13.59	
20	64QAM	100	0	13.55	13.75	13.62	13.60	13.48	
20	256QAM	1	0	10.92	11.22	11.07	11.03	10.85	12
20	256QAM	1	49	11.08	11.33	11.10	11.14	11.01	
20	256QAM	1	99	10.97	11.23	11.04	10.98	10.91	
20	256QAM	50	0	11.02	11.31	11.13	11.16	11.04	12
20	256QAM	50	24	11.20	11.44	11.25	11.20	11.13	
20	256QAM	50	50	11.15	11.40	11.20	11.17	11.10	
20	256QAM	100	0	11.15	11.41	11.25	11.16	11.09	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	16.26	16.53	16.33	16.47	16.34	17.00
15	QPSK	1	37	16.44	16.51	16.48	16.54	16.46	
15	QPSK	1	74	16.43	16.57	16.44	16.43	16.35	
15	QPSK	36	0	15.38	15.53	15.52	15.44	15.38	16
15	QPSK	36	20	15.46	15.67	15.58	15.59	15.46	
15	QPSK	36	39	15.49	15.59	15.45	15.44	15.42	
15	QPSK	75	0	15.41	15.58	15.51	15.45	15.40	16
15	16QAM	1	0	15.29	15.53	15.35	15.42	15.39	
15	16QAM	1	37	15.38	15.67	15.56	15.50	15.53	
15	16QAM	1	74	15.47	15.61	15.39	15.49	15.30	15
15	16QAM	36	0	14.40	14.58	14.56	14.45	14.43	
15	16QAM	36	20	14.49	14.60	14.52	14.56	14.41	
15	16QAM	36	39	14.47	14.64	14.54	14.52	14.46	15
15	16QAM	75	0	14.44	14.57	14.50	14.48	14.30	
15	64QAM	1	0	14.34	14.45	14.40	14.26	14.32	
15	64QAM	1	37	14.30	14.45	14.46	14.52	14.44	14
15	64QAM	1	74	14.40	14.50	14.36	14.36	14.31	
15	64QAM	36	0	13.45	13.51	13.51	13.49	13.40	
15	64QAM	36	20	13.49	13.72	13.56	13.52	13.45	12
15	64QAM	36	39	13.42	13.67	13.53	13.55	13.43	
15	64QAM	75	0	13.39	13.59	13.50	13.47	13.28	
15	256QAM	1	0	10.72	11.11	10.96	10.92	10.66	12
15	256QAM	1	37	10.94	11.20	11.00	11.00	10.81	
15	256QAM	1	74	10.77	11.09	10.87	10.86	10.77	
15	256QAM	36	0	10.83	11.12	11.01	10.97	10.86	12



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15	256QAM	36	20	11.08	11.28	11.09	11.06	10.97	
15	256QAM	36	39	10.96	11.23	11.08	10.97	10.91	
15	256QAM	75	0	10.97	11.30	11.09	10.98	10.93	
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	16.28	16.51	16.33	16.44	16.35	17.00
10	QPSK	1	25	16.43	16.53	16.53	16.60	16.37	
10	QPSK	1	49	16.39	16.52	16.40	16.41	16.31	
10	QPSK	25	0	15.31	15.49	15.52	15.49	15.43	16
10	QPSK	25	12	15.45	15.65	15.50	15.54	15.44	
10	QPSK	25	25	15.45	15.61	15.52	15.46	15.43	
10	QPSK	50	0	15.44	15.57	15.43	15.43	15.38	16
10	16QAM	1	0	15.26	15.49	15.33	15.38	15.38	
10	16QAM	1	25	15.33	15.64	15.61	15.54	15.43	
10	16QAM	1	49	15.53	15.67	15.39	15.44	15.32	15
10	16QAM	25	0	14.38	14.53	14.49	14.50	14.39	
10	16QAM	25	12	14.46	14.62	14.58	14.62	14.48	
10	16QAM	25	25	14.46	14.68	14.56	14.50	14.41	15
10	16QAM	50	0	14.43	14.60	14.44	14.42	14.39	
10	64QAM	1	0	14.34	14.49	14.39	14.30	14.30	
10	64QAM	1	25	14.27	14.43	14.53	14.53	14.39	14
10	64QAM	1	49	14.42	14.42	14.44	14.39	14.37	
10	64QAM	25	0	13.35	13.59	13.55	13.53	13.37	
10	64QAM	25	12	13.51	13.68	13.57	13.61	13.43	12
10	64QAM	25	25	13.45	13.66	13.61	13.52	13.42	
10	64QAM	50	0	13.39	13.62	13.49	13.45	13.38	
10	256QAM	1	0	10.82	11.12	10.88	10.92	10.65	12
10	256QAM	1	25	10.96	11.14	10.97	10.99	10.84	
10	256QAM	1	49	10.84	11.13	10.88	10.88	10.76	
10	256QAM	25	0	10.82	11.20	10.99	11.01	10.94	12
10	256QAM	25	12	11.09	11.24	11.09	11.02	11.03	
10	256QAM	25	25	10.97	11.27	11.09	11.00	10.96	
10	256QAM	50	0	11.00	11.23	11.05	10.98	10.93	Tune-up limit (dBm)
Channel				39675	40148	40620	41093	41565	
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	
5	QPSK	1	0	16.26	16.52	16.38	16.47	16.37	17.00
5	QPSK	1	12	16.41	16.56	16.53	16.56	16.45	
5	QPSK	1	24	16.42	16.47	16.48	16.43	16.32	
5	QPSK	12	0	15.29	15.51	15.49	15.52	15.43	16
5	QPSK	12	7	15.44	15.60	15.52	15.56	15.42	
5	QPSK	12	13	15.49	15.64	15.49	15.53	15.46	
5	QPSK	25	0	15.46	15.56	15.50	15.48	15.33	16
5	16QAM	1	0	15.35	15.45	15.36	15.46	15.33	
5	16QAM	1	12	15.34	15.61	15.60	15.53	15.45	
5	16QAM	1	24	15.55	15.59	15.40	15.39	15.29	15
5	16QAM	12	0	14.39	14.57	14.51	14.50	14.40	
5	16QAM	12	7	14.53	14.61	14.51	14.58	14.46	
5	16QAM	12	13	14.49	14.69	14.56	14.55	14.43	15
5	16QAM	25	0	14.48	14.55	14.50	14.43	14.35	
5	64QAM	1	0	14.32	14.48	14.42	14.29	14.24	
5	64QAM	1	12	14.30	14.50	14.55	14.53	14.41	14
5	64QAM	1	24	14.45	14.45	14.40	14.40	14.39	
5	64QAM	12	0	13.42	13.54	13.54	13.45	13.37	
5	64QAM	12	7	13.47	13.67	13.52	13.52	13.41	12
5	64QAM	12	13	13.44	13.60	13.58	13.49	13.48	
5	64QAM	25	0	13.41	13.61	13.51	13.43	13.34	
5	256QAM	1	0	10.82	11.03	10.96	10.92	10.68	12
5	256QAM	1	12	10.92	11.17	10.91	11.01	10.82	
5	256QAM	1	24	10.86	11.11	10.86	10.79	10.71	
5	256QAM	12	0	10.89	11.13	10.98	11.06	10.85	12
5	256QAM	12	7	11.03	11.25	11.06	11.08	10.93	
5	256QAM	12	13	10.98	11.24	11.07	11.07	10.97	
5	256QAM	25	0	11.02	11.21	11.10	11.04	10.89	



<LTE Band 41_Ant MIMO2_Sensor ON>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	21.69	21.73	21.51	21.37	21.74	22.5
20	QPSK	1	49	21.60	21.65	21.35	21.27	21.58	
20	QPSK	1	99	21.46	21.54	21.28	21.12	21.49	
20	QPSK	50	0	21.60	21.67	21.39	21.21	21.68	22.5
20	QPSK	50	24	21.65	21.70	21.48	21.31	21.71	
20	QPSK	50	50	21.59	21.69	21.45	21.28	21.63	
20	QPSK	100	0	21.64	21.70	21.44	21.26	21.71	22.5
20	16QAM	1	0	21.58	21.63	21.38	21.24	21.57	
20	16QAM	1	49	21.49	21.60	21.34	21.23	21.57	
20	16QAM	1	99	21.44	21.57	21.35	21.21	21.48	21.5
20	16QAM	50	0	20.56	20.66	20.35	20.26	20.67	
20	16QAM	50	24	20.69	20.79	20.53	20.40	20.70	
20	16QAM	50	50	20.58	20.70	20.44	20.32	20.64	21.5
20	16QAM	100	0	20.66	20.76	20.50	20.36	20.76	
20	64QAM	1	0	20.41	20.54	20.22	20.13	20.47	21.5
20	64QAM	1	49	20.36	20.43	20.21	20.06	20.43	
20	64QAM	1	99	20.26	20.38	20.09	20.01	20.39	
20	64QAM	50	0	19.58	19.71	19.41	19.29	19.62	20.5
20	64QAM	50	24	19.72	19.78	19.55	19.36	19.70	
20	64QAM	50	50	19.61	19.74	19.44	19.35	19.72	
20	64QAM	100	0	19.65	19.72	19.43	19.35	19.63	18.5
20	256QAM	1	0	17.17	17.22	16.96	16.85	17.19	
20	256QAM	1	49	17.41	17.48	17.24	17.10	17.42	
20	256QAM	1	99	17.17	17.27	16.95	16.86	17.21	18.5
20	256QAM	50	0	17.58	17.69	17.40	17.25	17.67	
20	256QAM	50	24	17.70	17.78	17.50	17.38	17.71	
20	256QAM	50	50	17.64	17.74	17.51	17.33	17.66	18.5
20	256QAM	100	0	17.69	17.75	17.51	17.36	17.73	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	21.63	21.69	21.44	21.29	21.67	22.5
15	QPSK	1	37	21.56	21.60	21.32	21.18	21.52	
15	QPSK	1	74	21.40	21.50	21.25	21.04	21.40	
15	QPSK	36	0	21.55	21.62	21.32	21.17	21.61	22.5
15	QPSK	36	20	21.55	21.63	21.42	21.25	21.61	
15	QPSK	36	39	21.56	21.61	21.40	21.21	21.54	
15	QPSK	75	0	21.57	21.65	21.34	21.19	21.61	22.5
15	16QAM	1	0	21.52	21.59	21.32	21.19	21.47	
15	16QAM	1	37	21.41	21.57	21.29	21.16	21.54	
15	16QAM	1	74	21.39	21.50	21.28	21.13	21.41	21.5
15	16QAM	36	0	20.53	20.62	20.28	20.22	20.57	
15	16QAM	36	20	20.62	20.71	20.47	20.34	20.64	
15	16QAM	36	39	20.49	20.64	20.35	20.29	20.56	21.5
15	16QAM	75	0	20.59	20.68	20.45	20.26	20.72	
15	64QAM	1	0	20.34	20.45	20.15	20.10	20.37	
15	64QAM	1	37	20.26	20.38	20.15	20.00	20.35	21.5
15	64QAM	1	74	20.23	20.35	19.99	19.92	20.29	
15	64QAM	36	0	19.52	19.68	19.32	19.19	19.59	
15	64QAM	36	20	19.69	19.73	19.46	19.28	19.62	20.5
15	64QAM	36	39	19.55	19.70	19.34	19.30	19.69	
15	64QAM	75	0	19.57	19.68	19.36	19.30	19.59	
15	256QAM	1	0	17.08	17.14	16.86	16.78	17.15	18.5
15	256QAM	1	37	17.37	17.42	17.17	17.05	17.34	
15	256QAM	1	74	17.14	17.22	16.89	16.76	17.18	
15	256QAM	36	0	17.48	17.61	17.33	17.19	17.63	18.5



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15	256QAM	36	20	17.67	17.72	17.45	17.28	17.68	
15	256QAM	36	39	17.58	17.67	17.44	17.24	17.59	
15	256QAM	75	0	17.64	17.65	17.43	17.33	17.68	
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	21.59	21.66	21.43	21.28	21.64	22.5
10	QPSK	1	25	21.51	21.59	21.30	21.17	21.51	
10	QPSK	1	49	21.41	21.49	21.23	21.06	21.46	
10	QPSK	25	0	21.56	21.62	21.34	21.13	21.58	22.5
10	QPSK	25	12	21.61	21.62	21.44	21.22	21.63	
10	QPSK	25	25	21.55	21.66	21.35	21.18	21.58	
10	QPSK	50	0	21.59	21.65	21.36	21.16	21.62	
10	16QAM	1	0	21.55	21.57	21.35	21.14	21.53	22.5
10	16QAM	1	25	21.46	21.51	21.31	21.14	21.49	
10	16QAM	1	49	21.39	21.50	21.30	21.15	21.39	
10	16QAM	25	0	20.46	20.56	20.30	20.19	20.57	21.5
10	16QAM	25	12	20.64	20.75	20.43	20.36	20.63	
10	16QAM	25	25	20.53	20.61	20.35	20.27	20.57	
10	16QAM	50	0	20.63	20.70	20.40	20.28	20.68	
10	64QAM	1	0	20.34	20.45	20.12	20.04	20.38	21.5
10	64QAM	1	25	20.27	20.40	20.15	20.03	20.34	
10	64QAM	1	49	20.18	20.33	19.99	19.98	20.33	
10	64QAM	25	0	19.51	19.67	19.38	19.20	19.52	20.5
10	64QAM	25	12	19.64	19.73	19.51	19.30	19.62	
10	64QAM	25	25	19.52	19.70	19.40	19.25	19.64	
10	64QAM	50	0	19.60	19.65	19.40	19.30	19.57	
10	256QAM	1	0	17.10	17.19	16.89	16.79	17.13	18.5
10	256QAM	1	25	17.31	17.42	17.16	17.06	17.38	
10	256QAM	1	49	17.10	17.21	16.91	16.77	17.14	
10	256QAM	25	0	17.52	17.66	17.32	17.22	17.61	18.5
10	256QAM	25	12	17.61	17.70	17.43	17.32	17.64	
10	256QAM	25	25	17.58	17.65	17.41	17.30	17.57	
10	256QAM	50	0	17.62	17.67	17.42	17.31	17.67	
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	
5	QPSK	1	0	21.65	21.68	21.41	21.27	21.67	22.5
5	QPSK	1	12	21.52	21.56	21.31	21.22	21.54	
5	QPSK	1	24	21.41	21.44	21.24	21.07	21.40	
5	QPSK	12	0	21.50	21.59	21.33	21.14	21.65	22.5
5	QPSK	12	7	21.56	21.60	21.40	21.24	21.61	
5	QPSK	12	13	21.53	21.59	21.41	21.25	21.57	
5	QPSK	25	0	21.56	21.67	21.40	21.17	21.65	
5	16QAM	1	0	21.52	21.56	21.35	21.19	21.48	22.5
5	16QAM	1	12	21.42	21.55	21.30	21.18	21.48	
5	16QAM	1	24	21.38	21.52	21.29	21.18	21.41	
5	16QAM	12	0	20.53	20.61	20.29	20.19	20.63	21.5
5	16QAM	12	7	20.59	20.75	20.50	20.30	20.60	
5	16QAM	12	13	20.54	20.67	20.41	20.27	20.54	
5	16QAM	25	0	20.56	20.66	20.45	20.26	20.73	
5	64QAM	1	0	20.36	20.51	20.13	20.08	20.44	21.5
5	64QAM	1	12	20.32	20.36	20.15	19.98	20.35	
5	64QAM	1	24	20.19	20.29	19.99	19.97	20.32	
5	64QAM	12	0	19.49	19.62	19.35	19.24	19.54	20.5
5	64QAM	12	7	19.69	19.70	19.52	19.31	19.60	
5	64QAM	12	13	19.52	19.68	19.37	19.26	19.65	
5	64QAM	25	0	19.60	19.66	19.38	19.29	19.56	
5	256QAM	1	0	17.12	17.15	16.86	16.82	17.09	18.5
5	256QAM	1	12	17.37	17.41	17.15	17.03	17.38	
5	256QAM	1	24	17.09	17.24	16.87	16.83	17.12	
5	256QAM	12	0	17.51	17.62	17.30	17.21	17.57	18.5
5	256QAM	12	7	17.63	17.69	17.44	17.31	17.65	
5	256QAM	12	13	17.60	17.68	17.42	17.23	17.60	
5	256QAM	25	0	17.64	17.65	17.48	17.33	17.65	



<LTE Band 41_HPUE_Ant Main_Sensor ON>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	19.12	19.32	19.21	19.24	19.14	20
20	QPSK	1	49	19.19	19.38	19.37	19.35	19.23	
20	QPSK	1	99	19.15	19.34	19.26	19.17	19.17	
20	QPSK	50	0	18.13	18.35	18.32	18.29	18.22	19
20	QPSK	50	24	18.27	18.45	18.41	18.44	18.27	
20	QPSK	50	50	18.25	18.42	18.40	18.38	18.26	
20	QPSK	100	0	18.21	18.37	18.30	18.29	18.20	19
20	16QAM	1	0	18.42	18.61	18.55	18.48	18.43	
20	16QAM	1	49	18.49	18.77	18.76	18.64	18.62	
20	16QAM	1	99	18.48	18.66	18.55	18.56	18.46	18
20	16QAM	50	0	17.19	17.39	17.37	17.35	17.24	
20	16QAM	50	24	17.33	17.49	17.40	17.46	17.30	
20	16QAM	50	50	17.30	17.46	17.44	17.38	17.33	18
20	16QAM	100	0	17.24	17.41	17.34	17.31	17.20	
20	64QAM	1	0	17.37	17.59	17.53	17.46	17.37	
20	64QAM	1	49	17.48	17.60	17.60	17.58	17.50	17
20	64QAM	1	99	17.39	17.59	17.47	17.43	17.31	
20	64QAM	50	0	16.24	16.38	16.34	16.36	16.26	
20	64QAM	50	24	16.31	16.51	16.36	16.46	16.27	15
20	64QAM	50	50	16.32	16.51	16.41	16.37	16.29	
20	64QAM	100	0	16.25	16.45	16.32	16.28	16.21	
20	256QAM	1	0	13.89	14.19	14.04	13.93	13.90	15
20	256QAM	1	49	14.10	14.32	14.17	14.11	13.98	
20	256QAM	1	99	13.90	14.17	13.94	13.95	13.83	
20	256QAM	50	0	13.90	14.12	13.92	13.93	13.87	15
20	256QAM	50	24	14.00	14.23	14.05	14.02	13.95	
20	256QAM	50	50	13.94	14.20	14.06	13.98	13.88	
20	256QAM	100	0	13.86	14.16	13.95	13.95	13.91	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	18.98	19.18	19.06	19.06	19.01	20.00
15	QPSK	1	37	19.03	19.19	19.27	19.21	19.05	
15	QPSK	1	74	19.01	19.15	19.13	18.98	19.07	
15	QPSK	36	0	17.97	18.16	18.21	18.12	18.10	19
15	QPSK	36	20	18.09	18.32	18.30	18.31	18.17	
15	QPSK	36	39	18.05	18.27	18.26	18.20	18.11	
15	QPSK	75	0	18.08	18.24	18.17	18.12	18.04	19
15	16QAM	1	0	18.32	18.45	18.43	18.36	18.33	
15	16QAM	1	37	18.32	18.63	18.66	18.44	18.49	
15	16QAM	1	74	18.29	18.56	18.35	18.45	18.34	18
15	16QAM	36	0	17.08	17.27	17.21	17.18	17.05	
15	16QAM	36	20	17.18	17.39	17.24	17.26	17.18	
15	16QAM	36	39	17.14	17.35	17.32	17.19	17.19	18
15	16QAM	75	0	17.11	17.21	17.16	17.21	17.05	
15	64QAM	1	0	17.26	17.45	17.33	17.31	17.21	
15	64QAM	1	37	17.35	17.49	17.41	17.39	17.38	17
15	64QAM	1	74	17.20	17.43	17.30	17.29	17.16	
15	64QAM	36	0	16.07	16.18	16.18	16.19	16.09	
15	64QAM	36	20	16.18	16.38	16.21	16.36	16.16	15
15	64QAM	36	39	16.22	16.34	16.25	16.22	16.18	
15	64QAM	75	0	16.06	16.29	16.14	16.10	16.07	
15	256QAM	1	0	13.75	14.01	13.91	13.80	13.74	15
15	256QAM	1	37	13.91	14.18	14.06	13.97	13.84	
15	256QAM	1	74	13.74	13.98	13.74	13.76	13.69	
15	256QAM	36	0	13.70	13.99	13.73	13.76	13.77	15



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15	256QAM	36	20	13.89	14.04	13.86	13.91	13.83	
15	256QAM	36	39	13.79	14.06	13.86	13.87	13.73	
15	256QAM	75	0	13.74	13.96	13.81	13.75	13.75	
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	18.93	19.17	19.02	19.04	19.02	20.00
10	QPSK	1	25	19.08	19.19	19.25	19.23	19.11	
10	QPSK	1	49	18.98	19.16	19.16	19.05	19.05	
10	QPSK	25	0	17.93	18.21	18.17	18.11	18.05	19
10	QPSK	25	12	18.17	18.34	18.31	18.29	18.08	
10	QPSK	25	25	18.14	18.27	18.29	18.28	18.09	
10	QPSK	50	0	18.10	18.27	18.19	18.15	18.05	19
10	16QAM	1	0	18.30	18.47	18.38	18.33	18.26	
10	16QAM	1	25	18.35	18.58	18.58	18.44	18.52	
10	16QAM	1	49	18.29	18.52	18.36	18.39	18.36	18
10	16QAM	25	0	17.09	17.26	17.22	17.16	17.07	
10	16QAM	25	12	17.13	17.29	17.29	17.30	17.20	
10	16QAM	25	25	17.12	17.36	17.27	17.23	17.14	18
10	16QAM	50	0	17.12	17.24	17.22	17.12	17.05	
10	64QAM	1	0	17.24	17.45	17.42	17.35	17.26	
10	64QAM	1	25	17.29	17.50	17.40	17.46	17.33	17
10	64QAM	1	49	17.19	17.41	17.29	17.31	17.17	
10	64QAM	25	0	16.08	16.23	16.19	16.21	16.11	
10	64QAM	25	12	16.16	16.39	16.20	16.33	16.15	15
10	64QAM	25	25	16.17	16.41	16.25	16.20	16.11	
10	64QAM	50	0	16.05	16.34	16.13	16.16	16.03	
10	256QAM	1	0	13.75	14.00	13.93	13.76	13.72	15
10	256QAM	1	25	13.94	14.12	14.04	13.91	13.86	
10	256QAM	1	49	13.71	14.04	13.78	13.79	13.63	
10	256QAM	25	0	13.79	14.02	13.81	13.74	13.74	15
10	256QAM	25	12	13.87	14.09	13.87	13.88	13.75	
10	256QAM	25	25	13.76	14.08	13.95	13.80	13.69	
10	256QAM	50	0	13.71	14.00	13.80	13.78	13.80	Tune-up limit (dBm)
Channel				39675	40148	40620	41093	41565	
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	
5	QPSK	1	0	18.92	19.14	19.03	19.13	18.97	20.00
5	QPSK	1	12	19.02	19.21	19.22	19.20	19.08	
5	QPSK	1	24	19.03	19.19	19.15	18.98	19.02	
5	QPSK	12	0	17.93	18.20	18.15	18.09	18.09	19
5	QPSK	12	7	18.13	18.27	18.24	18.29	18.09	
5	QPSK	12	13	18.05	18.30	18.21	18.26	18.11	
5	QPSK	25	0	18.11	18.27	18.10	18.16	18.08	19
5	16QAM	1	0	18.29	18.51	18.43	18.31	18.31	
5	16QAM	1	12	18.34	18.60	18.61	18.48	18.46	
5	16QAM	1	24	18.29	18.56	18.45	18.37	18.29	18
5	16QAM	12	0	17.01	17.26	17.25	17.15	17.11	
5	16QAM	12	7	17.17	17.34	17.25	17.32	17.19	
5	16QAM	12	13	17.14	17.34	17.34	17.24	17.13	18
5	16QAM	25	0	17.13	17.22	17.22	17.17	17.00	
5	64QAM	1	0	17.23	17.46	17.37	17.30	17.17	
5	64QAM	1	12	17.28	17.49	17.45	17.45	17.38	17
5	64QAM	1	24	17.29	17.46	17.33	17.27	17.14	
5	64QAM	12	0	16.06	16.23	16.17	16.25	16.13	
5	64QAM	12	7	16.20	16.33	16.22	16.30	16.07	15
5	64QAM	12	13	16.16	16.41	16.22	16.20	16.19	
5	64QAM	25	0	16.15	16.29	16.19	16.18	16.03	
5	256QAM	1	0	13.75	14.09	13.85	13.80	13.79	15
5	256QAM	1	12	13.93	14.18	14.05	13.91	13.85	
5	256QAM	1	24	13.73	13.99	13.74	13.77	13.70	
5	256QAM	12	0	13.75	13.95	13.81	13.75	13.74	15
5	256QAM	12	7	13.80	14.03	13.92	13.89	13.76	
5	256QAM	12	13	13.84	14.08	13.90	13.84	13.68	
5	256QAM	25	0	13.74	14.06	13.81	13.75	13.76	



<LTE Band 41_HPUE_Ant MIMO2_Sensor ON>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	24.63	24.66	24.41	24.25	24.68	25.5
20	QPSK	1	49	24.60	24.63	24.34	24.16	24.56	
20	QPSK	1	99	24.36	24.47	24.14	24.00	24.40	
20	QPSK	50	0	24.31	24.41	24.10	23.98	24.43	25.5
20	QPSK	50	24	24.46	24.47	24.25	24.08	24.48	
20	QPSK	50	50	24.31	24.44	24.11	24.02	24.39	
20	QPSK	100	0	24.39	24.45	24.10	24.04	24.47	25.5
20	16QAM	1	0	24.29	24.32	24.04	23.89	24.28	
20	16QAM	1	49	24.25	24.34	24.00	23.86	24.27	
20	16QAM	1	99	24.21	24.26	23.92	23.81	24.27	24.5
20	16QAM	50	0	23.38	23.41	23.16	22.92	23.34	
20	16QAM	50	24	23.52	23.55	23.27	23.12	23.55	
20	16QAM	50	50	23.40	23.47	23.14	23.01	23.43	24.5
20	16QAM	100	0	23.40	23.53	23.26	23.06	23.45	
20	64QAM	1	0	23.26	23.31	23.04	22.89	23.30	
20	64QAM	1	49	23.13	23.25	23.00	22.77	23.25	23.5
20	64QAM	1	99	23.09	23.15	22.82	22.72	23.08	
20	64QAM	50	0	22.34	22.45	22.20	22.03	22.43	
20	64QAM	50	24	22.49	22.57	22.26	22.13	22.54	21.5
20	64QAM	50	50	22.40	22.51	22.26	22.02	22.51	
20	64QAM	100	0	22.47	22.53	22.18	22.02	22.51	
20	256QAM	1	0	19.90	20.02	19.77	19.57	19.97	21.5
20	256QAM	1	49	20.13	20.21	19.89	19.74	20.14	
20	256QAM	1	99	20.00	20.07	19.75	19.57	20.00	
20	256QAM	50	0	20.37	20.49	20.20	20.08	20.49	21.5
20	256QAM	50	24	20.48	20.54	20.25	20.11	20.52	
20	256QAM	50	50	20.47	20.53	20.21	20.05	20.54	
20	256QAM	100	0	20.42	20.52	20.26	20.09	20.48	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	24.55	24.58	24.34	24.19	24.61	25.5
15	QPSK	1	37	24.50	24.58	24.28	24.09	24.47	
15	QPSK	1	74	24.29	24.41	24.10	23.96	24.35	
15	QPSK	36	0	24.22	24.38	24.01	23.94	24.38	25.5
15	QPSK	36	20	24.43	24.38	24.16	24.02	24.41	
15	QPSK	36	39	24.24	24.36	24.01	23.96	24.31	
15	QPSK	75	0	24.30	24.42	24.06	24.01	24.43	25.5
15	16QAM	1	0	24.24	24.22	23.94	23.82	24.23	
15	16QAM	1	37	24.21	24.24	23.91	23.81	24.18	
15	16QAM	1	74	24.11	24.18	23.87	23.78	24.17	24.5
15	16QAM	36	0	23.31	23.34	23.07	22.87	23.27	
15	16QAM	36	20	23.45	23.47	23.19	23.02	23.50	
15	16QAM	36	39	23.32	23.40	23.08	22.94	23.39	24.5
15	16QAM	75	0	23.31	23.49	23.17	22.99	23.42	
15	64QAM	1	0	23.19	23.25	22.99	22.85	23.24	
15	64QAM	1	37	23.09	23.20	22.94	22.74	23.19	23.5
15	64QAM	1	74	23.01	23.09	22.78	22.68	23.01	
15	64QAM	36	0	22.30	22.39	22.14	21.94	22.38	
15	64QAM	36	20	22.45	22.47	22.22	22.06	22.50	21.5
15	64QAM	36	39	22.37	22.46	22.21	21.94	22.44	
15	64QAM	75	0	22.44	22.44	22.14	21.94	22.42	
15	256QAM	1	0	19.86	19.97	19.70	19.53	19.92	21.5
15	256QAM	1	37	20.08	20.18	19.83	19.68	20.06	
15	256QAM	1	74	19.91	19.98	19.70	19.50	19.90	
15	256QAM	36	0	20.30	20.45	20.16	20.02	20.45	21.5



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15	256QAM	36	20	20.45	20.44	20.19	20.03	20.49	
15	256QAM	36	39	20.41	20.49	20.13	20.02	20.49	
15	256QAM	75	0	20.37	20.45	20.19	20.01	20.45	
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	24.60	24.61	24.34	24.17	24.59	25.5
10	QPSK	1	25	24.57	24.56	24.29	24.10	24.53	
10	QPSK	1	49	24.32	24.38	24.05	23.95	24.31	
10	QPSK	25	0	24.21	24.37	24.05	23.94	24.33	25.5
10	QPSK	25	12	24.36	24.39	24.18	24.03	24.43	
10	QPSK	25	25	24.27	24.37	24.07	23.98	24.30	
10	QPSK	50	0	24.35	24.42	24.06	23.99	24.42	25.5
10	16QAM	1	0	24.21	24.25	23.98	23.85	24.22	
10	16QAM	1	25	24.20	24.25	23.92	23.77	24.22	
10	16QAM	1	49	24.18	24.23	23.88	23.72	24.20	24.5
10	16QAM	25	0	23.29	23.32	23.09	22.86	23.31	
10	16QAM	25	12	23.48	23.45	23.24	23.08	23.49	
10	16QAM	25	25	23.35	23.40	23.07	22.94	23.35	24.5
10	16QAM	50	0	23.30	23.44	23.17	23.03	23.38	
10	64QAM	1	0	23.23	23.21	22.95	22.83	23.20	
10	64QAM	1	25	23.09	23.18	22.90	22.71	23.20	24.5
10	64QAM	1	49	23.05	23.08	22.78	22.63	22.98	
10	64QAM	25	0	22.24	22.36	22.10	21.95	22.39	
10	64QAM	25	12	22.39	22.50	22.22	22.07	22.49	23.5
10	64QAM	25	25	22.35	22.43	22.22	21.97	22.47	
10	64QAM	50	0	22.38	22.47	22.14	21.98	22.45	
10	256QAM	1	0	19.83	19.97	19.67	19.54	19.93	21.5
10	256QAM	1	25	20.10	20.15	19.84	19.69	20.07	
10	256QAM	1	49	19.97	20.03	19.66	19.53	19.91	
10	256QAM	25	0	20.29	20.41	20.10	20.02	20.42	21.5
10	256QAM	25	12	20.45	20.50	20.15	20.05	20.49	
10	256QAM	25	25	20.39	20.44	20.16	19.95	20.45	
10	256QAM	50	0	20.37	20.47	20.17	20.01	20.39	
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	
5	QPSK	1	0	24.55	24.62	24.32	24.22	24.58	25.5
5	QPSK	1	12	24.52	24.58	24.28	24.08	24.49	
5	QPSK	1	24	24.26	24.43	24.05	23.97	24.34	
5	QPSK	12	0	24.23	24.36	24.02	23.95	24.36	25.5
5	QPSK	12	7	24.41	24.40	24.20	23.98	24.40	
5	QPSK	12	13	24.22	24.40	24.08	23.94	24.36	
5	QPSK	25	0	24.34	24.35	24.02	24.01	24.40	25.5
5	16QAM	1	0	24.19	24.26	23.94	23.81	24.21	
5	16QAM	1	12	24.20	24.31	23.90	23.81	24.21	
5	16QAM	1	24	24.17	24.19	23.84	23.72	24.22	24.5
5	16QAM	12	0	23.30	23.35	23.12	22.88	23.27	
5	16QAM	12	7	23.46	23.49	23.19	23.05	23.47	
5	16QAM	12	13	23.37	23.40	23.08	22.94	23.36	24.5
5	16QAM	25	0	23.36	23.47	23.20	23.02	23.35	
5	64QAM	1	0	23.19	23.25	22.94	22.82	23.27	
5	64QAM	1	12	23.04	23.20	22.93	22.69	23.21	24.5
5	64QAM	1	24	23.05	23.12	22.75	22.65	22.98	
5	64QAM	12	0	22.30	22.35	22.14	22.00	22.39	
5	64QAM	12	7	22.43	22.52	22.20	22.04	22.45	23.5
5	64QAM	12	13	22.30	22.46	22.22	21.93	22.41	
5	64QAM	25	0	22.42	22.48	22.14	21.93	22.42	
5	256QAM	1	0	19.82	19.98	19.68	19.54	19.90	21.5
5	256QAM	1	12	20.06	20.12	19.80	19.68	20.10	
5	256QAM	1	24	19.94	19.98	19.67	19.52	19.95	
5	256QAM	12	0	20.32	20.39	20.13	20.02	20.39	21.5
5	256QAM	12	7	20.44	20.47	20.22	20.04	20.47	
5	256QAM	12	13	20.43	20.48	20.11	19.97	20.48	
5	256QAM	25	0	20.33	20.49	20.18	20.06	20.43	

**<LTE Band 42_Ant Main_Sensor ON>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				42190	42590	42990	
Frequency (MHz)				3460	3500	3540	
20	QPSK	1	0	19.81	19.72	19.77	
20	QPSK	1	49	19.75	19.70	19.76	20.8
20	QPSK	1	99	19.71	19.61	19.61	
20	QPSK	50	0	18.85	18.77	18.84	
20	QPSK	50	24	18.84	18.76	18.82	19.8
20	QPSK	50	50	18.76	18.71	18.76	
20	QPSK	100	0	18.78	18.73	18.78	
20	16QAM	1	0	18.88	18.69	18.81	19.8
20	16QAM	1	49	18.72	18.69	18.81	
20	16QAM	1	99	18.70	18.62	18.58	
20	16QAM	50	0	17.85	17.81	17.77	18.8
20	16QAM	50	24	17.82	17.80	17.86	
20	16QAM	50	50	17.75	17.71	17.75	
20	16QAM	100	0	17.78	17.73	17.80	18.8
20	64QAM	1	0	17.78	17.63	17.78	
20	64QAM	1	49	17.77	17.64	17.73	
20	64QAM	1	99	17.66	17.54	17.60	17.8
20	64QAM	50	0	16.85	16.77	16.80	
20	64QAM	50	24	16.80	16.81	16.84	
20	64QAM	50	50	16.72	16.73	16.71	15.8
20	64QAM	100	0	16.76	16.72	16.77	
20	256QAM	1	0	14.70	14.65	14.64	
20	256QAM	1	49	14.71	14.65	14.69	15.8
20	256QAM	1	99	14.64	14.60	14.58	
20	256QAM	50	0	14.81	14.69	14.78	
20	256QAM	50	24	14.80	14.76	14.76	15.8
20	256QAM	50	50	14.75	14.70	14.70	
20	256QAM	100	0	14.78	14.67	14.73	
Channel				42165	42590	43015	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3500	3542.5	
15	QPSK	1	0	19.63	19.61	19.60	
15	QPSK	1	37	19.55	19.53	19.57	20.8
15	QPSK	1	74	19.53	19.48	19.43	
15	QPSK	36	0	18.74	18.59	18.74	19.8
15	QPSK	36	20	18.72	18.63	18.67	
15	QPSK	36	39	18.59	18.53	18.66	
15	QPSK	75	0	18.58	18.56	18.63	19.8
15	16QAM	1	0	18.71	18.55	18.61	
15	16QAM	1	37	18.56	18.50	18.61	
15	16QAM	1	74	18.56	18.46	18.44	18.8
15	16QAM	36	0	17.73	17.69	17.59	
15	16QAM	36	20	17.69	17.68	17.72	
15	16QAM	36	39	17.63	17.56	17.58	18.8
15	16QAM	75	0	17.62	17.63	17.70	
15	64QAM	1	0	17.60	17.46	17.64	
15	64QAM	1	37	17.61	17.54	17.58	17.8
15	64QAM	1	74	17.49	17.34	17.43	
15	64QAM	36	0	16.70	16.62	16.64	
15	64QAM	36	20	16.68	16.62	16.71	15.8
15	64QAM	36	39	16.56	16.59	16.58	
15	64QAM	75	0	16.66	16.57	16.63	
15	256QAM	1	0	14.59	14.55	14.51	15.8
15	256QAM	1	37	14.56	14.46	14.54	
15	256QAM	1	74	14.54	14.48	14.38	
15	256QAM	36	0	14.71	14.55	14.64	15.8



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15	256QAM	36	20	14.65	14.64	14.64	
15	256QAM	36	39	14.63	14.54	14.50	
15	256QAM	75	0	14.63	14.48	14.62	
Channel				42140	42590	43040	Tune-up limit (dBm)
Frequency (MHz)				3455	3500	3545	
10	QPSK	1	0	19.69	19.58	19.59	20.8
10	QPSK	1	25	19.61	19.52	19.62	
10	QPSK	1	49	19.51	19.42	19.48	
10	QPSK	25	0	18.73	18.61	18.65	19.8
10	QPSK	25	12	18.68	18.66	18.63	
10	QPSK	25	25	18.59	18.59	18.60	
10	QPSK	50	0	18.59	18.63	18.58	
10	16QAM	1	0	18.73	18.59	18.68	19.8
10	16QAM	1	25	18.61	18.55	18.63	
10	16QAM	1	49	18.52	18.50	18.40	
10	16QAM	25	0	17.67	17.62	17.65	18.8
10	16QAM	25	12	17.63	17.64	17.75	
10	16QAM	25	25	17.60	17.54	17.64	
10	16QAM	50	0	17.58	17.57	17.60	
10	64QAM	1	0	17.58	17.48	17.66	18.8
10	64QAM	1	25	17.61	17.45	17.62	
10	64QAM	1	49	17.47	17.38	17.46	
10	64QAM	25	0	16.65	16.62	16.65	17.8
10	64QAM	25	12	16.61	16.66	16.65	
10	64QAM	25	25	16.59	16.59	16.53	
10	64QAM	50	0	16.65	16.59	16.63	
10	256QAM	1	0	14.53	14.46	14.53	15.8
10	256QAM	1	25	14.60	14.54	14.53	
10	256QAM	1	49	14.45	14.40	14.38	
10	256QAM	25	0	14.71	14.53	14.58	15.8
10	256QAM	25	12	14.69	14.58	14.61	
10	256QAM	25	25	14.57	14.58	14.57	
10	256QAM	50	0	14.67	14.57	14.54	
Channel				42115	42590	43065	Tune-up limit (dBm)
Frequency (MHz)				3452.5	3500	3547.5	
5	QPSK	1	0	19.61	19.54	19.60	20.8
5	QPSK	1	12	19.61	19.59	19.59	
5	QPSK	1	24	19.57	19.45	19.41	
5	QPSK	12	0	18.71	18.64	18.67	19.8
5	QPSK	12	7	18.66	18.59	18.70	
5	QPSK	12	13	18.56	18.59	18.59	
5	QPSK	25	0	18.68	18.59	18.58	
5	16QAM	1	0	18.78	18.49	18.64	19.8
5	16QAM	1	12	18.60	18.57	18.61	
5	16QAM	1	24	18.55	18.47	18.48	
5	16QAM	12	0	17.71	17.62	17.63	18.8
5	16QAM	12	7	17.69	17.64	17.68	
5	16QAM	12	13	17.58	17.56	17.58	
5	16QAM	25	0	17.59	17.61	17.68	
5	64QAM	1	0	17.59	17.53	17.65	18.8
5	64QAM	1	12	17.64	17.48	17.55	
5	64QAM	1	24	17.48	17.37	17.44	
5	64QAM	12	0	16.67	16.57	16.66	17.8
5	64QAM	12	7	16.60	16.64	16.68	
5	64QAM	12	13	16.53	16.58	16.53	
5	64QAM	25	0	16.62	16.62	16.62	
5	256QAM	1	0	14.53	14.46	14.49	15.8
5	256QAM	1	12	14.55	14.50	14.55	
5	256QAM	1	24	14.44	14.49	14.41	
5	256QAM	12	0	14.71	14.52	14.68	15.8
5	256QAM	12	7	14.70	14.56	14.66	
5	256QAM	12	13	14.58	14.59	14.52	
5	256QAM	25	0	14.62	14.49	14.60	

**<LTE Band 42_Ant MIMO2_Sensor ON>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				42190	42590	42990	
Frequency (MHz)				3460	3500	3540	
20	QPSK	1	0	17.06	16.95	16.97	17.7
20	QPSK	1	49	16.98	16.83	16.89	
20	QPSK	1	99	16.89	16.74	16.76	
20	QPSK	50	0	17.01	16.89	16.85	17.7
20	QPSK	50	24	17.03	16.91	16.90	
20	QPSK	50	50	16.96	16.78	16.78	
20	QPSK	100	0	16.98	16.79	16.88	17.7
20	16QAM	1	0	16.88	16.69	16.72	
20	16QAM	1	49	16.87	16.75	16.71	
20	16QAM	1	99	16.81	16.64	16.72	17.7
20	16QAM	50	0	16.97	16.76	16.79	
20	16QAM	50	24	17.02	16.81	16.87	
20	16QAM	50	50	16.96	16.83	16.86	17.7
20	16QAM	100	0	16.94	16.75	16.78	
20	64QAM	1	0	16.83	16.67	16.69	
20	64QAM	1	49	16.82	16.70	16.63	17.7
20	64QAM	1	99	16.77	16.66	16.66	
20	64QAM	50	0	16.93	16.75	16.80	17.7
20	64QAM	50	24	16.95	16.77	16.81	
20	64QAM	50	50	16.89	16.78	16.80	
20	64QAM	100	0	16.91	16.77	16.75	17.7
20	256QAM	1	0	16.71	16.51	16.57	
20	256QAM	1	49	16.72	16.52	16.61	
20	256QAM	1	99	16.63	16.50	16.50	17.7
20	256QAM	50	0	16.94	16.74	16.80	
20	256QAM	50	24	16.93	16.78	16.74	
20	256QAM	50	50	16.90	16.73	16.71	17.7
20	256QAM	100	0	16.89	16.70	16.77	
Channel				42163	42588	43013	Tune-up limit (dBm)
Frequency (MHz)				3457.3	3499.8	3542.3	
15	QPSK	1	0	16.92	16.81	16.92	17.7
15	QPSK	1	37	16.93	16.73	16.74	
15	QPSK	1	74	16.78	16.61	16.61	
15	QPSK	36	0	16.90	16.80	16.70	17.7
15	QPSK	36	20	16.88	16.80	16.79	
15	QPSK	36	39	16.90	16.68	16.64	
15	QPSK	75	0	16.86	16.69	16.78	17.7
15	16QAM	1	0	16.83	16.59	16.57	
15	16QAM	1	37	16.76	16.70	16.65	
15	16QAM	1	74	16.74	16.57	16.57	17.7
15	16QAM	36	0	16.88	16.64	16.70	
15	16QAM	36	20	16.94	16.75	16.77	
15	16QAM	36	39	16.90	16.77	16.73	17.7
15	16QAM	75	0	16.82	16.66	16.67	
15	64QAM	1	0	16.68	16.53	16.58	
15	64QAM	1	37	16.74	16.63	16.48	17.7
15	64QAM	1	74	16.63	16.53	16.53	
15	64QAM	36	0	16.80	16.62	16.75	
15	64QAM	36	20	16.89	16.67	16.73	17.7
15	64QAM	36	39	16.74	16.73	16.69	
15	64QAM	75	0	16.85	16.65	16.68	
15	256QAM	1	0	16.60	16.40	16.51	17.7
15	256QAM	1	37	16.63	16.43	16.47	
15	256QAM	1	74	16.55	16.36	16.45	
15	256QAM	36	0	16.82	16.61	16.73	17.7



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15	256QAM	36	20	16.82	16.73	16.64	
15	256QAM	36	39	16.77	16.58	16.61	
15	256QAM	75	0	16.76	16.56	16.68	
Channel				42140	42590	43040	Tune-up limit (dBm)
Frequency (MHz)				3455	3500	3545	
10	QPSK	1	0	16.99	16.87	16.87	17.7
10	QPSK	1	25	16.91	16.78	16.74	
10	QPSK	1	49	16.75	16.60	16.62	
10	QPSK	25	0	16.90	16.81	16.80	17.7
10	QPSK	25	12	16.95	16.79	16.82	
10	QPSK	25	25	16.85	16.67	16.65	
10	QPSK	50	0	16.87	16.70	16.82	
10	16QAM	1	0	16.77	16.56	16.57	17.7
10	16QAM	1	25	16.75	16.63	16.66	
10	16QAM	1	49	16.71	16.56	16.63	
10	16QAM	25	0	16.86	16.70	16.74	17.7
10	16QAM	25	12	16.88	16.66	16.80	
10	16QAM	25	25	16.85	16.71	16.72	
10	16QAM	50	0	16.88	16.64	16.72	
10	64QAM	1	0	16.70	16.54	16.55	17.7
10	64QAM	1	25	16.72	16.60	16.51	
10	64QAM	1	49	16.69	16.61	16.58	
10	64QAM	25	0	16.84	16.67	16.69	17.7
10	64QAM	25	12	16.86	16.70	16.76	
10	64QAM	25	25	16.83	16.66	16.74	
10	64QAM	50	0	16.82	16.62	16.67	
10	256QAM	1	0	16.59	16.37	16.46	17.7
10	256QAM	1	25	16.58	16.42	16.54	
10	256QAM	1	49	16.51	16.45	16.39	
10	256QAM	25	0	16.85	16.68	16.70	17.7
10	256QAM	25	12	16.85	16.71	16.67	
10	256QAM	25	25	16.80	16.60	16.66	
10	256QAM	50	0	16.74	16.62	16.66	
Channel				42115	42590	43065	Tune-up limit (dBm)
Frequency (MHz)				3452.5	3500	3547.5	
5	QPSK	1	0	17.01	16.82	16.86	17.7
5	QPSK	1	12	16.90	16.75	16.76	
5	QPSK	1	24	16.75	16.65	16.71	
5	QPSK	12	0	16.86	16.83	16.80	17.7
5	QPSK	12	7	16.98	16.85	16.78	
5	QPSK	12	13	16.81	16.68	16.68	
5	QPSK	25	0	16.90	16.74	16.80	
5	16QAM	1	0	16.79	16.63	16.58	17.7
5	16QAM	1	12	16.77	16.69	16.62	
5	16QAM	1	24	16.72	16.59	16.67	
5	16QAM	12	0	16.90	16.63	16.72	17.7
5	16QAM	12	7	16.97	16.76	16.73	
5	16QAM	12	13	16.88	16.75	16.72	
5	16QAM	25	0	16.83	16.61	16.64	
5	64QAM	1	0	16.69	16.55	16.55	17.7
5	64QAM	1	12	16.68	16.58	16.48	
5	64QAM	1	24	16.64	16.52	16.58	
5	64QAM	12	0	16.87	16.70	16.74	17.7
5	64QAM	12	7	16.88	16.68	16.72	
5	64QAM	12	13	16.83	16.71	16.65	
5	64QAM	25	0	16.84	16.69	16.64	
5	256QAM	1	0	16.58	16.39	16.52	17.7
5	256QAM	1	12	16.59	16.37	16.48	
5	256QAM	1	24	16.53	16.36	16.35	
5	256QAM	12	0	16.89	16.69	16.71	17.7
5	256QAM	12	7	16.81	16.63	16.64	
5	256QAM	12	13	16.75	16.58	16.60	
5	256QAM	25	0	16.84	16.58	16.69	

**<LTE Band 43_Ant Main_Sensor ON>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				44690	45090	45490	
Frequency (MHz)				3710	3750	3790	
20	QPSK	1	0	19.05	19.18	19.28	20.1
20	QPSK	1	49	19.03	19.12	19.17	
20	QPSK	1	99	18.85	18.91	19.06	
20	QPSK	50	0	18.03	18.16	18.19	19.1
20	QPSK	50	24	18.01	18.11	18.15	
20	QPSK	50	50	17.96	18.08	18.14	
20	QPSK	100	0	17.94	18.04	18.18	19.1
20	16QAM	1	0	18.10	18.22	18.36	
20	16QAM	1	49	18.11	18.09	18.34	
20	16QAM	1	99	17.87	17.92	18.05	18.1
20	16QAM	50	0	17.05	17.15	17.24	
20	16QAM	50	24	16.98	17.14	17.24	
20	16QAM	50	50	16.97	17.09	17.14	18.1
20	16QAM	100	0	16.96	17.05	17.19	
20	64QAM	1	0	17.02	17.19	17.22	
20	64QAM	1	49	16.99	17.15	17.12	17.1
20	64QAM	1	99	16.80	16.88	17.02	
20	64QAM	50	0	16.05	16.15	16.21	
20	64QAM	50	24	15.95	16.12	16.26	15.1
20	64QAM	50	50	15.94	16.07	16.15	
20	64QAM	100	0	15.93	16.06	16.20	
20	256QAM	1	0	13.76	13.90	14.07	15.1
20	256QAM	1	49	13.92	14.06	14.21	
20	256QAM	1	99	13.82	13.98	14.19	
20	256QAM	50	0	13.92	14.05	14.20	15.1
20	256QAM	50	24	13.96	14.16	14.32	
20	256QAM	50	50	13.98	14.07	14.28	
20	256QAM	100	0	13.95	14.12	14.28	
Channel				44665	45090	45515	Tune-up limit (dBm)
Frequency (MHz)				3707.5	3750	3792.5	
15	QPSK	1	0	18.92	18.98	19.08	20.1
15	QPSK	1	37	18.91	19.01	19.03	
15	QPSK	1	74	18.75	18.81	18.88	
15	QPSK	36	0	17.83	17.96	18.00	19.1
15	QPSK	36	20	17.85	18.00	18.02	
15	QPSK	36	39	17.76	17.94	17.96	
15	QPSK	75	0	17.80	17.94	18.04	19.1
15	16QAM	1	0	18.00	18.02	18.19	
15	16QAM	1	37	17.96	17.94	18.23	
15	16QAM	1	74	17.73	17.76	17.94	18.1
15	16QAM	36	0	16.85	16.95	17.08	
15	16QAM	36	20	16.82	17.02	17.12	
15	16QAM	36	39	16.84	16.97	16.96	18.1
15	16QAM	75	0	16.86	16.85	17.07	
15	64QAM	1	0	16.87	17.03	17.12	
15	64QAM	1	37	16.85	17.03	16.99	17.1
15	64QAM	1	74	16.60	16.68	16.92	
15	64QAM	36	0	15.91	16.00	16.05	
15	64QAM	36	20	15.82	15.93	16.07	15.1
15	64QAM	36	39	15.84	15.90	15.96	
15	64QAM	75	0	15.74	15.96	16.03	
15	256QAM	1	0	13.65	13.78	13.92	15.1
15	256QAM	1	37	13.81	13.91	14.03	
15	256QAM	1	74	13.62	13.82	14.01	
15	256QAM	36	0	13.80	13.93	14.08	15.1



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15	256QAM	36	20	13.79	13.96	14.21	
15	256QAM	36	39	13.79	13.88	14.09	
15	256QAM	75	0	13.84	13.95	14.18	
Channel				44640	45090	45540	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	QPSK	1	0	18.89	19.07	19.17	20.1
10	QPSK	1	25	18.89	18.98	18.99	
10	QPSK	1	49	18.67	18.76	18.92	
10	QPSK	25	0	17.93	18.05	18.04	19.1
10	QPSK	25	12	17.91	17.93	17.96	
10	QPSK	25	25	17.78	17.92	17.95	
10	QPSK	50	0	17.79	17.85	17.99	
10	16QAM	1	0	17.92	18.07	18.21	19.1
10	16QAM	1	25	17.99	17.94	18.20	
10	16QAM	1	49	17.73	17.82	17.95	
10	16QAM	25	0	16.85	16.98	17.09	18.1
10	16QAM	25	12	16.87	17.02	17.07	
10	16QAM	25	25	16.78	16.91	17.04	
10	16QAM	50	0	16.77	16.92	17.08	
10	64QAM	1	0	16.83	16.99	17.07	18.1
10	64QAM	1	25	16.83	17.00	17.01	
10	64QAM	1	49	16.63	16.71	16.82	
10	64QAM	25	0	15.90	16.00	16.10	17.1
10	64QAM	25	12	15.75	15.96	16.15	
10	64QAM	25	25	15.83	15.92	16.04	
10	64QAM	50	0	15.76	15.90	16.10	
10	256QAM	1	0	13.62	13.78	13.92	15.1
10	256QAM	1	25	13.72	13.93	14.05	
10	256QAM	1	49	13.65	13.84	13.99	
10	256QAM	25	0	13.73	13.87	14.04	15.1
10	256QAM	25	12	13.78	13.97	14.18	
10	256QAM	25	25	13.85	13.89	14.12	
10	256QAM	50	0	13.83	14.01	14.11	
Channel				44615	45090	45565	Tune-up limit (dBm)
Frequency (MHz)				3702.5	3750	3797.5	
5	QPSK	1	0	18.91	19.01	19.16	20.1
5	QPSK	1	12	18.87	18.95	19.06	
5	QPSK	1	24	18.74	18.77	18.94	
5	QPSK	12	0	17.88	18.00	18.05	19.1
5	QPSK	12	7	17.86	17.94	18.05	
5	QPSK	12	13	17.79	17.89	17.99	
5	QPSK	25	0	17.75	17.86	18.03	
5	16QAM	1	0	17.97	18.04	18.23	19.1
5	16QAM	1	12	17.91	17.98	18.22	
5	16QAM	1	24	17.72	17.81	17.85	
5	16QAM	12	0	16.93	17.05	17.05	18.1
5	16QAM	12	7	16.80	17.02	17.07	
5	16QAM	12	13	16.85	16.97	16.99	
5	16QAM	25	0	16.83	16.88	17.02	
5	64QAM	1	0	16.91	17.09	17.06	18.1
5	64QAM	1	12	16.85	16.96	17.02	
5	64QAM	1	24	16.69	16.77	16.89	
5	64QAM	12	0	15.85	16.00	16.01	17.1
5	64QAM	12	7	15.77	15.98	16.10	
5	64QAM	12	13	15.74	15.97	16.04	
5	64QAM	25	0	15.80	15.96	16.07	
5	256QAM	1	0	13.56	13.73	13.94	15.1
5	256QAM	1	12	13.82	13.95	14.04	
5	256QAM	1	24	13.63	13.87	14.09	
5	256QAM	12	0	13.78	13.94	14.07	15.1
5	256QAM	12	7	13.76	14.05	14.15	
5	256QAM	12	13	13.78	13.90	14.11	
5	256QAM	25	0	13.76	13.92	14.09	

**<LTE Band 43_Ant MIMO2_Sensor ON>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				44690	45090	45490	
Frequency (MHz)				3710	3750	3790	
20	QPSK	1	0	16.12	16.15	16.19	17
20	QPSK	1	49	16.07	16.10	16.15	
20	QPSK	1	99	16.01	16.03	16.08	
20	QPSK	50	0	15.92	16.01	16.09	17
20	QPSK	50	24	16.08	16.10	16.18	
20	QPSK	50	50	16.06	16.08	16.15	
20	QPSK	100	0	16.01	16.02	16.16	17
20	16QAM	1	0	15.84	15.93	16.01	
20	16QAM	1	49	15.92	15.88	16.02	
20	16QAM	1	99	15.90	15.89	16.01	17
20	16QAM	50	0	15.90	15.86	16.00	
20	16QAM	50	24	15.91	16.03	16.08	
20	16QAM	50	50	15.98	15.99	16.05	17
20	16QAM	100	0	15.89	15.97	16.04	
20	64QAM	1	0	15.83	15.90	15.97	
20	64QAM	1	49	15.83	15.86	15.96	17
20	64QAM	1	99	15.84	15.87	15.94	
20	64QAM	50	0	15.99	16.01	16.09	17
20	64QAM	50	24	15.94	15.95	16.03	
20	64QAM	50	50	16.03	16.01	16.10	
20	64QAM	100	0	15.95	15.99	16.04	17
20	256QAM	1	0	15.52	15.56	15.62	
20	256QAM	1	49	15.58	15.66	15.72	
20	256QAM	1	99	15.59	15.63	15.68	17
20	256QAM	50	0	15.79	15.87	15.92	
20	256QAM	50	24	15.90	15.88	16.02	
20	256QAM	50	50	15.94	15.94	16.07	17
20	256QAM	100	0	15.90	15.89	16.03	
Channel				44665	45090	45515	Tune-up limit (dBm)
Frequency (MHz)				3707.5	3750	3792.5	
15	QPSK	1	0	16.08	16.06	16.11	17
15	QPSK	1	37	16.00	16.01	16.09	
15	QPSK	1	74	15.91	15.94	15.99	
15	QPSK	36	0	15.84	15.92	16.01	17
15	QPSK	36	20	15.98	16.06	16.10	
15	QPSK	36	39	16.00	15.99	16.12	
15	QPSK	75	0	15.93	15.92	16.07	17
15	16QAM	1	0	15.78	15.89	15.91	
15	16QAM	1	37	15.88	15.85	15.95	
15	16QAM	1	74	15.81	15.83	15.94	17
15	16QAM	36	0	15.81	15.81	15.94	
15	16QAM	36	20	15.88	15.98	16.00	
15	16QAM	36	39	15.91	15.94	15.98	17
15	16QAM	75	0	15.86	15.92	16.00	
15	64QAM	1	0	15.77	15.82	15.91	
15	64QAM	1	37	15.75	15.76	15.87	17
15	64QAM	1	74	15.81	15.80	15.87	
15	64QAM	36	0	15.90	15.94	15.99	
15	64QAM	36	20	15.87	15.85	15.95	17
15	64QAM	36	39	15.97	15.91	16.00	
15	64QAM	75	0	15.91	15.94	16.00	
15	256QAM	1	0	15.43	15.50	15.54	17
15	256QAM	1	37	15.53	15.56	15.63	
15	256QAM	1	74	15.51	15.56	15.64	
15	256QAM	36	0	15.70	15.83	15.83	17



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15	256QAM	36	20	15.81	15.79	15.93	
15	256QAM	36	39	15.84	15.90	16.01	
15	256QAM	75	0	15.85	15.84	15.95	
Channel				44640	45090	45540	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	QPSK	1	0	16.07	16.07	16.13	17
10	QPSK	1	25	16.04	16.07	16.07	
10	QPSK	1	49	15.93	15.99	16.03	
10	QPSK	25	0	15.82	15.96	16.05	17
10	QPSK	25	12	16.01	16.06	16.10	
10	QPSK	25	25	15.98	16.00	16.05	
10	QPSK	50	0	15.93	15.98	16.11	17
10	16QAM	1	0	15.75	15.83	15.96	
10	16QAM	1	25	15.83	15.80	15.94	
10	16QAM	1	49	15.81	15.84	15.92	17
10	16QAM	25	0	15.85	15.78	15.96	
10	16QAM	25	12	15.83	15.97	16.04	
10	16QAM	25	25	15.93	15.91	16.02	17
10	16QAM	50	0	15.84	15.87	15.97	
10	64QAM	1	0	15.73	15.86	15.89	
10	64QAM	1	25	15.77	15.80	15.92	17
10	64QAM	1	49	15.78	15.84	15.85	
10	64QAM	25	0	15.89	15.93	16.06	
10	64QAM	25	12	15.89	15.87	15.98	17
10	64QAM	25	25	16.00	15.91	16.07	
10	64QAM	50	0	15.85	15.94	16.00	
10	256QAM	1	0	15.49	15.49	15.53	17
10	256QAM	1	25	15.48	15.61	15.63	
10	256QAM	1	49	15.52	15.58	15.58	
10	256QAM	25	0	15.72	15.83	15.82	17
10	256QAM	25	12	15.81	15.83	15.93	
10	256QAM	25	25	15.87	15.85	16.02	
10	256QAM	50	0	15.80	15.84	16.00	Tune-up limit (dBm)
Channel				44615	45090	45565	
Frequency (MHz)				3702.5	3750	3797.5	
5	QPSK	1	0	16.08	16.11	16.15	17
5	QPSK	1	12	16.03	16.02	16.07	
5	QPSK	1	24	15.96	15.93	15.98	
5	QPSK	12	0	15.89	15.93	16.02	17
5	QPSK	12	7	15.98	16.06	16.12	
5	QPSK	12	13	16.03	15.99	16.10	
5	QPSK	25	0	15.96	15.94	16.12	17
5	16QAM	1	0	15.81	15.90	15.93	
5	16QAM	1	12	15.86	15.80	15.96	
5	16QAM	1	24	15.81	15.79	15.91	17
5	16QAM	12	0	15.80	15.81	15.92	
5	16QAM	12	7	15.87	15.97	16.00	
5	16QAM	12	13	15.93	15.95	16.02	17
5	16QAM	25	0	15.80	15.93	15.95	
5	64QAM	1	0	15.79	15.87	15.87	
5	64QAM	1	12	15.77	15.78	15.88	17
5	64QAM	1	24	15.79	15.80	15.91	
5	64QAM	12	0	15.93	15.91	16.01	
5	64QAM	12	7	15.87	15.89	16.00	17
5	64QAM	12	13	15.95	15.92	16.07	
5	64QAM	25	0	15.87	15.94	16.01	
5	256QAM	1	0	15.43	15.47	15.59	17
5	256QAM	1	12	15.49	15.60	15.64	
5	256QAM	1	24	15.50	15.56	15.65	
5	256QAM	12	0	15.70	15.81	15.84	17
5	256QAM	12	7	15.80	15.82	15.95	
5	256QAM	12	13	15.85	15.85	15.97	
5	256QAM	25	0	15.82	15.85	15.94	

<LTE Band 48_Ant Main_Sensor ON>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				55340	55830	56150	56640	
Frequency (MHz)				3560	3609	3641	3690	
20	QPSK	1	0	20.79	20.61	20.60	20.71	20.9
20	QPSK	1	49	20.71	20.60	20.59	20.71	
20	QPSK	1	99	20.61	20.43	20.41	20.61	
20	QPSK	50	0	19.83	19.71	19.63	19.75	20.3
20	QPSK	50	24	19.80	19.64	19.58	19.74	
20	QPSK	50	50	19.68	19.54	19.55	19.69	
20	QPSK	100	0	19.74	19.61	19.59	19.66	20.3
20	16QAM	1	0	19.79	19.58	19.65	19.82	
20	16QAM	1	49	19.70	19.60	19.55	19.72	
20	16QAM	1	99	19.54	19.44	19.40	19.64	19.8
20	16QAM	50	0	18.84	18.68	18.58	18.77	
20	16QAM	50	24	18.79	18.68	18.66	18.74	
20	16QAM	50	50	18.72	18.58	18.55	18.70	19.8
20	16QAM	100	0	18.76	18.59	18.57	18.70	
20	64QAM	1	0	18.80	18.55	18.60	18.77	
20	64QAM	1	49	18.61	18.53	18.59	18.71	18.8
20	64QAM	1	99	18.55	18.40	18.40	18.47	
20	64QAM	50	0	17.82	17.67	17.60	17.77	
20	64QAM	50	24	17.80	17.64	17.65	17.74	16.8
20	64QAM	50	50	17.75	17.52	17.55	17.76	
20	64QAM	100	0	17.79	17.58	17.58	17.70	
20	256QAM	1	0	15.76	15.52	15.55	15.66	16.8
20	256QAM	1	49	15.86	15.69	15.68	15.79	
20	256QAM	1	99	15.89	15.68	15.71	15.80	
20	256QAM	50	0	15.90	15.71	15.70	15.82	16.8
20	256QAM	50	24	16.04	15.83	15.81	15.95	
20	256QAM	50	50	15.99	15.79	15.75	15.90	
20	256QAM	100	0	15.95	15.76	15.75	15.90	
Channel				55315	55820	56160	56665	Tune-up limit (dBm)
Frequency (MHz)				3557.5	3608	3642	3692.5	
15	QPSK	1	0	20.73	20.47	20.54	20.63	20.9
15	QPSK	1	37	20.63	20.45	20.49	20.63	
15	QPSK	1	74	20.55	20.38	20.33	20.51	
15	QPSK	36	0	19.70	19.65	19.52	19.68	20.3
15	QPSK	36	20	19.72	19.57	19.52	19.60	
15	QPSK	36	39	19.57	19.45	19.40	19.55	
15	QPSK	75	0	19.60	19.54	19.51	19.57	20.3
15	16QAM	1	0	19.64	19.45	19.55	19.71	
15	16QAM	1	37	19.57	19.55	19.50	19.62	
15	16QAM	1	74	19.45	19.34	19.26	19.50	19.8
15	16QAM	36	0	18.70	18.62	18.45	18.69	
15	16QAM	36	20	18.66	18.53	18.51	18.62	
15	16QAM	36	39	18.57	18.49	18.42	18.61	19.8
15	16QAM	75	0	18.61	18.53	18.50	18.60	
15	64QAM	1	0	18.75	18.42	18.47	18.62	
15	64QAM	1	37	18.53	18.41	18.52	18.57	18.8
15	64QAM	1	74	18.45	18.32	18.33	18.34	
15	64QAM	36	0	17.72	17.57	17.54	17.67	
15	64QAM	36	20	17.67	17.54	17.58	17.63	16.8
15	64QAM	36	39	17.68	17.43	17.42	17.62	
15	64QAM	75	0	17.65	17.44	17.45	17.59	
15	256QAM	1	0	15.67	15.40	15.40	15.52	16.8
15	256QAM	1	37	15.72	15.57	15.53	15.71	
15	256QAM	1	74	15.74	15.62	15.64	15.70	
15	256QAM	36	0	15.76	15.65	15.62	15.69	16.8



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15	256QAM	36	20	15.93	15.71	15.72	15.88	
15	256QAM	36	39	15.87	15.68	15.69	15.84	
15	256QAM	75	0	15.83	15.66	15.65	15.81	
Channel				55290	55815	56165	56690	Tune-up limit (dBm)
Frequency (MHz)				3555	3607.5	3642.5	3695	
10	QPSK	1	0	20.69	20.48	20.49	20.64	20.9
10	QPSK	1	25	20.58	20.51	20.53	20.60	
10	QPSK	1	49	20.49	20.38	20.26	20.55	
10	QPSK	25	0	19.75	19.58	19.55	19.62	20.3
10	QPSK	25	12	19.69	19.57	19.53	19.67	
10	QPSK	25	25	19.61	19.40	19.50	19.56	
10	QPSK	50	0	19.60	19.55	19.54	19.55	
10	16QAM	1	0	19.71	19.44	19.50	19.72	20.3
10	16QAM	1	25	19.59	19.55	19.46	19.61	
10	16QAM	1	49	19.39	19.36	19.26	19.56	
10	16QAM	25	0	18.71	18.62	18.43	18.71	19.8
10	16QAM	25	12	18.72	18.58	18.59	18.60	
10	16QAM	25	25	18.57	18.50	18.44	18.60	
10	16QAM	50	0	18.69	18.49	18.47	18.55	
10	64QAM	1	0	18.72	18.44	18.51	18.71	19.8
10	64QAM	1	25	18.47	18.40	18.46	18.59	
10	64QAM	1	49	18.47	18.32	18.28	18.32	
10	64QAM	25	0	17.73	17.54	17.48	17.63	18.8
10	64QAM	25	12	17.70	17.54	17.59	17.62	
10	64QAM	25	25	17.62	17.41	17.42	17.64	
10	64QAM	50	0	17.66	17.49	17.47	17.59	
10	256QAM	1	0	15.62	15.42	15.41	15.60	16.8
10	256QAM	1	25	15.72	15.54	15.63	15.70	
10	256QAM	1	49	15.83	15.53	15.63	15.69	
10	256QAM	25	0	15.83	15.58	15.57	15.71	16.8
10	256QAM	25	12	15.89	15.77	15.67	15.87	
10	256QAM	25	25	15.93	15.66	15.70	15.76	
10	256QAM	50	0	15.83	15.69	15.64	15.85	
Channel				55265	55810	56170	56715	Tune-up limit (dBm)
Frequency (MHz)				3552.5	3607	3643	3697.5	
5	QPSK	1	0	20.73	20.55	20.45	20.65	20.9
5	QPSK	1	12	20.56	20.45	20.44	20.63	
5	QPSK	1	24	20.46	20.31	20.28	20.49	
5	QPSK	12	0	19.68	19.56	19.57	19.66	20.3
5	QPSK	12	7	19.68	19.58	19.46	19.63	
5	QPSK	12	13	19.60	19.39	19.50	19.57	
5	QPSK	25	0	19.63	19.56	19.50	19.59	
5	16QAM	1	0	19.66	19.45	19.50	19.73	20.3
5	16QAM	1	12	19.64	19.54	19.42	19.59	
5	16QAM	1	24	19.42	19.29	19.30	19.59	
5	16QAM	12	0	18.78	18.60	18.46	18.62	
5	16QAM	12	7	18.69	18.59	18.51	18.61	19.8
5	16QAM	12	13	18.65	18.45	18.50	18.65	
5	16QAM	25	0	18.69	18.45	18.46	18.61	
5	64QAM	1	0	18.65	18.50	18.46	18.69	
5	64QAM	1	12	18.54	18.46	18.50	18.59	19.8
5	64QAM	1	24	18.49	18.27	18.29	18.32	
5	64QAM	12	0	17.67	17.53	17.52	17.62	
5	64QAM	12	7	17.65	17.52	17.51	17.69	18.8
5	64QAM	12	13	17.61	17.44	17.49	17.61	
5	64QAM	25	0	17.66	17.47	17.52	17.57	
5	256QAM	1	0	15.61	15.46	15.43	15.51	
5	256QAM	1	12	15.71	15.61	15.53	15.68	16.8
5	256QAM	1	24	15.80	15.59	15.66	15.67	
5	256QAM	12	0	15.76	15.58	15.64	15.68	
5	256QAM	12	7	15.90	15.70	15.76	15.84	16.8
5	256QAM	12	13	15.88	15.74	15.63	15.77	
5	256QAM	25	0	15.85	15.63	15.65	15.80	

<LTE Band 48_Ant MIMO2_Sensor ON>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				55340	55830	56150	56640	
Frequency (MHz)				3560	3609	3641	3690	
20	QPSK	1	0	16.26	16.09	16.04	16.10	17
20	QPSK	1	49	16.19	15.92	15.92	16.02	
20	QPSK	1	99	16.11	15.85	15.89	15.94	
20	QPSK	50	0	16.19	15.99	15.89	15.93	17
20	QPSK	50	24	16.24	16.00	16.01	15.98	
20	QPSK	50	50	16.17	15.96	15.86	15.94	
20	QPSK	100	0	16.23	16.00	15.95	15.98	
20	16QAM	1	0	16.12	15.91	15.89	15.91	17
20	16QAM	1	49	16.14	15.92	15.91	15.94	
20	16QAM	1	99	16.10	15.88	15.92	15.94	
20	16QAM	50	0	16.17	15.90	15.93	15.96	17
20	16QAM	50	24	16.18	15.94	15.89	15.97	
20	16QAM	50	50	16.14	15.97	15.87	15.94	
20	16QAM	100	0	16.17	15.90	15.89	15.99	
20	64QAM	1	0	16.09	15.90	15.86	15.93	17
20	64QAM	1	49	15.97	16.05	15.91	15.89	
20	64QAM	1	99	15.94	16.03	15.87	15.88	
20	64QAM	50	0	16.12	15.87	15.92	15.88	17
20	64QAM	50	24	16.19	15.95	15.95	15.99	
20	64QAM	50	50	16.11	15.91	15.90	15.88	
20	64QAM	100	0	16.15	15.96	15.93	15.89	
20	256QAM	1	0	16.04	15.78	15.81	15.85	17
20	256QAM	1	49	15.86	15.64	15.64	15.60	
20	256QAM	1	99	15.87	15.60	15.60	15.65	
20	256QAM	50	0	16.10	15.87	15.85	15.86	17
20	256QAM	50	24	16.06	15.79	15.84	15.82	
20	256QAM	50	50	16.05	15.80	15.73	15.82	
20	256QAM	100	0	16.02	15.76	15.72	15.83	
Channel				55315	55820	56160	56665	Tune-up limit (dBm)
Frequency (MHz)				3557.5	3608	3642	3692.5	
15	QPSK	1	0	16.19	16.01	15.99	16.01	17
15	QPSK	1	37	16.12	15.83	15.84	15.97	
15	QPSK	1	74	16.04	15.82	15.85	15.91	
15	QPSK	36	0	16.13	15.91	15.79	15.84	17
15	QPSK	36	20	16.19	15.96	15.91	15.89	
15	QPSK	36	39	16.14	15.91	15.79	15.87	
15	QPSK	75	0	16.15	15.97	15.91	15.94	
15	16QAM	1	0	16.03	15.84	15.82	15.85	17
15	16QAM	1	37	16.09	15.84	15.81	15.90	
15	16QAM	1	74	16.06	15.83	15.86	15.84	
15	16QAM	36	0	16.07	15.82	15.89	15.86	17
15	16QAM	36	20	16.08	15.91	15.79	15.91	
15	16QAM	36	39	16.05	15.88	15.79	15.84	
15	16QAM	75	0	16.10	15.87	15.86	15.92	
15	64QAM	1	0	15.99	15.80	15.82	15.87	17
15	64QAM	1	37	15.93	15.99	15.84	15.83	
15	64QAM	1	74	15.91	15.94	15.78	15.82	
15	64QAM	36	0	16.07	15.80	15.82	15.83	17
15	64QAM	36	20	16.14	15.92	15.88	15.96	
15	64QAM	36	39	16.05	15.85	15.81	15.83	
15	64QAM	75	0	16.12	15.87	15.85	15.79	
15	256QAM	1	0	15.97	15.68	15.78	15.78	17
15	256QAM	1	37	15.78	15.56	15.54	15.50	
15	256QAM	1	74	15.84	15.52	15.51	15.61	
15	256QAM	36	0	16.07	15.82	15.76	15.77	17
15	256QAM	36	20	15.98	15.71	15.76	15.72	
15	256QAM	36	39	15.95	15.70	15.70	15.76	
15	256QAM	75	0	15.98	15.72	15.64	15.77	
Channel				55290	55815	56165	56690	Tune-up limit



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Frequency (MHz)				3555	3607.5	3642.5	3695	(dBm)
10	QPSK	1	0	16.19	16.03	15.95	16.02	17
10	QPSK	1	25	16.09	15.82	15.83	15.92	
10	QPSK	1	49	16.07	15.78	15.82	15.89	
10	QPSK	25	0	16.09	15.96	15.82	15.86	17
10	QPSK	25	12	16.14	15.90	15.95	15.91	
10	QPSK	25	25	16.10	15.90	15.81	15.90	
10	QPSK	50	0	16.20	15.95	15.90	15.90	17
10	16QAM	1	0	16.08	15.87	15.85	15.86	
10	16QAM	1	25	16.07	15.82	15.87	15.87	
10	16QAM	1	49	16.06	15.85	15.88	15.89	17
10	16QAM	25	0	16.13	15.83	15.90	15.91	
10	16QAM	25	12	16.08	15.85	15.86	15.91	
10	16QAM	25	25	16.11	15.93	15.77	15.90	17
10	16QAM	50	0	16.14	15.87	15.84	15.91	
10	64QAM	1	0	15.99	15.83	15.79	15.88	
10	64QAM	1	25	15.92	15.96	15.86	15.81	17
10	64QAM	1	49	15.85	15.96	15.77	15.81	
10	64QAM	25	0	16.03	15.77	15.82	15.84	
10	64QAM	25	12	16.16	15.87	15.89	15.90	17
10	64QAM	25	25	16.01	15.83	15.81	15.85	
10	64QAM	50	0	16.07	15.88	15.89	15.82	
10	256QAM	1	0	15.99	15.68	15.75	15.78	17
10	256QAM	1	25	15.83	15.54	15.56	15.53	
10	256QAM	1	49	15.77	15.55	15.55	15.57	
10	256QAM	25	0	16.03	15.83	15.81	15.76	17
10	256QAM	25	12	15.99	15.72	15.80	15.77	
10	256QAM	25	25	16.00	15.75	15.66	15.72	
10	256QAM	50	0	15.97	15.72	15.67	15.74	Tune-up limit (dBm)
Channel				55265	55810	56170	56715	
Frequency (MHz)				3552.5	3607	3643	3697.5	
5	QPSK	1	0	16.17	16.04	15.96	16.05	17
5	QPSK	1	12	16.09	15.86	15.89	15.94	
5	QPSK	1	24	16.08	15.76	15.81	15.88	
5	QPSK	12	0	16.11	15.95	15.82	15.86	17
5	QPSK	12	7	16.16	15.97	15.97	15.94	
5	QPSK	12	13	16.12	15.91	15.83	15.87	
5	QPSK	25	0	16.15	15.93	15.85	15.93	17
5	16QAM	1	0	16.05	15.81	15.79	15.83	
5	16QAM	1	12	16.10	15.85	15.84	15.84	
5	16QAM	1	24	16.04	15.83	15.89	15.85	17
5	16QAM	12	0	16.08	15.85	15.89	15.93	
5	16QAM	12	7	16.14	15.86	15.86	15.88	
5	16QAM	12	13	16.08	15.90	15.81	15.91	17
5	16QAM	25	0	16.11	15.87	15.85	15.92	
5	64QAM	1	0	16.02	15.85	15.82	15.87	
5	64QAM	1	12	15.90	16.01	15.87	15.84	17
5	64QAM	1	24	15.86	15.93	15.82	15.80	
5	64QAM	12	0	16.04	15.82	15.83	15.79	
5	64QAM	12	7	16.09	15.90	15.92	15.95	17
5	64QAM	12	13	16.02	15.84	15.83	15.80	
5	64QAM	25	0	16.08	15.87	15.87	15.81	
5	256QAM	1	0	15.98	15.75	15.77	15.75	17
5	256QAM	1	12	15.80	15.57	15.60	15.53	
5	256QAM	1	24	15.82	15.54	15.51	15.62	
5	256QAM	12	0	16.06	15.79	15.79	15.79	17
5	256QAM	12	7	16.03	15.76	15.75	15.79	
5	256QAM	12	13	16.02	15.77	15.69	15.75	
5	256QAM	25	0	15.99	15.68	15.65	15.75	

<5G NR Output Power>
General Note:

1. Referencing the procedure in KDB 941225, the test procedures are outlined as below
 - a. For DFT-OFDM output power measurement, full measurement was done for Pi/2 BPSK and QPSK and for the largest supported bandwidth, repeat test for 16QAM/64QAM/256QAM under 1RB 1Offset configuration. For smaller bandwidth, measure conducted power for Pi/2 BPSK and 1RB 1Offset configuration.
 - b. According to the tune-up, CP-OFDM output power is not ½ dB higher than DFT-OFDM mode, and the reported SAR of DFT-OFDM mode reported SAR is ≤ 1.45 W/kg, SAR test and thus conducted power for CP-OFDM mode is not required.
 - c. To start SAR test for the largest channel bandwidth for Pi/2 BPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel. Also do SAR test for 50% RB allocation for Pi/2 BPSK SAR testing using 1RB Pi/2 BPSK allocation procedure
 - d. For Pi/2 BPSK with 100% RB allocation, SAR test is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
 - e. For higher modulation QPSK/16QAM/64QAM/256QAM, according to tune-up document the power level is not ½ dB higher than the same configuration in Pi/2 BPSK, also reported SAR for the Pi/2 BPSK configuration is less than 1.45 W/kg, QPSK/16QAM/64QAM/256QAM SAR testing are not required.
 - f. Smaller bandwidth output power for each RB allocation configuration for this device is not ½ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg, smaller bandwidth SAR testing is not required for this device
2. Due to test setup limitations, SAR testing for NR was performed using Factory Test Mode software to establish the connection and perform SAR with 100% transmission. And only for TDD power class2 was performed using Factory Test Mode software to establish the connection and perform SAR with 50% transmission
3. The device implanted DPS (Dynamic Power Share) function to achieve higher uplink data rate keeping the total power unchanged in 5G NR NSA EN-DC mode according to 3GPP 38.213, when the equipment has a dynamic power sharing capability, it adjusts the LTE or NR transmission power so that the instantaneous total power does not exceed the specified value, when the maximum transmission power of NR (P_{LTE}, P_{NR}) and the specified total power (P_{total}) have been set and the instantaneous calculated total transmission power exceeds P_{total}, the NR transmission power is reduced so that the actual transmission power of the user equipment will not exceed P_{total} power.

<3GPP 38.101 MPR for EN-DC>
Table 6.2.2-1 Maximum power reduction (MPR) for power class 3

Modulation		MPR (dB)		
		Edge RB allocations	Outer RB allocations	Inner RB allocations
DFT-s-OFDM	Pi/2 BPSK	$\leq 3.5^1$	$\leq 1.2^1$	$\leq 0.2^1$
		$\leq 0.5^2$	$\leq 0.5^2$	0 ²
	QPSK	≤ 1		0
	16 QAM	≤ 2		≤ 1
	64 QAM	≤ 2.5		
CP-OFDM	256 QAM	≤ 4.5		
	QPSK	≤ 3		≤ 1.5
	16 QAM	≤ 3		≤ 2
	64 QAM	≤ 3.5		
	256 QAM	≤ 6.5		

NOTE 1: Applicable for UE operating in TDD mode with Pi/2 BPSK modulation and UE indicates support for UE capability powerBoosting-pi2BPSK and if the IE powerBoostPi2BPSK is set to 1 and 40 % or less slots in radio frame are used for UL transmission for bands n40, n41, n77, n78 and n79. The reference power of 0 dB MPR is 26 dBm.

NOTE 2: Applicable for UE operating in FDD mode, or in TDD mode in bands other than n40, n41, n77, n78 and n79 with Pi/2 BPSK modulation and if the IE powerBoostPi2BPSK is set to 0 and if more than 40 % of slots in radio frame are used for UL transmission for bands n40, n41, n77, n78 and n79.

Table 6.2.2-2 Maximum power reduction (MPR) for power class 2

Modulation		MPR (dB)		
		Edge RB allocations	Outer RB allocations	Inner RB allocations
DFT-s-OFDM	Pi/2 BPSK	≤ 3.5	≤ 0.5	0
	QPSK	≤ 3.5	≤ 1	0
	16 QAM	≤ 3.5	≤ 2	≤ 1
	64 QAM	≤ 3.5	≤ 2.5	
	256 QAM	≤ 4.5		
CP-OFDM	QPSK	≤ 3.5	≤ 3	≤ 1.5
	16 QAM	≤ 3.5	≤ 3	≤ 2
	64 QAM	≤ 3.5		
	256 QAM	≤ 6.5		



<FR1 n2_Ant Main_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376000	378000	24.6
Frequency (MHz)				1870	1880	1890	
40	PI/2 BPSK	1	1	23.86	23.83	23.01	
40	PI/2 BPSK	1	108	24.13	24.09	23.32	24.1
40	PI/2 BPSK	1	214	24.06	24.07	23.26	
40	PI/2 BPSK	108	0	23.57	23.55	22.77	
40	PI/2 BPSK	108	54	24.07	24.08	23.29	24.1
40	PI/2 BPSK	108	108	23.55	23.53	22.75	
40	PI/2 BPSK	216	0	23.60	23.58	22.76	
40	QPSK	1	1	23.78	23.78	23.01	24.6
40	QPSK	1	108	24.01	23.99	23.18	
40	QPSK	1	214	23.97	23.95	23.15	
40	QPSK	108	0	23.07	23.05	22.24	23.6
40	QPSK	108	54	24.03	24.00	23.18	24.6
40	QPSK	108	108	22.99	22.99	22.22	23.6
40	QPSK	216	0	23.04	23.03	22.22	
40	16QAM	1	1	22.82	22.82	22.02	
40	64QAM	1	1	21.49	21.50	20.72	22.1
40	256QAM	1	1	19.46	19.42	18.65	20.1
Channel				373500	376000	378500	Tune-up limit (dBm)
Frequency (MHz)				1867.5	1880	1892.5	
35	PI/2 BPSK	1	1	23.61	23.61	22.72	24.6
Channel				373000	376000	379000	Tune-up limit (dBm)
Frequency (MHz)				1865	1880	1895	
30	PI/2 BPSK	1	1	23.66	23.67	22.77	24.6
Channel				372500	376000	379500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1880	1897.5	
25	PI/2 BPSK	1	1	23.73	23.77	22.87	24.6
Channel				372000	376000	380000	Tune-up limit (dBm)
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	23.78	23.69	22.96	24.6
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	23.81	23.77	22.94	24.6
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	23.74	23.76	22.94	24.6



<FR1 n2_Ant MIMO2_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376000	378000	
Frequency (MHz)				1870	1880	1890	
40	PI/2 BPSK	1	1	24.02	24.05	24.00	
40	PI/2 BPSK	1	108	24.07	24.10	24.05	24.6
40	PI/2 BPSK	1	214	23.88	23.91	23.86	
40	PI/2 BPSK	108	0	23.45	23.48	23.43	
40	PI/2 BPSK	108	54	24.05	24.08	24.03	24.6
40	PI/2 BPSK	108	108	23.49	23.52	23.47	24.1
40	PI/2 BPSK	216	0	23.50	23.53	23.48	
40	QPSK	1	1	24.03	24.06	24.01	
40	QPSK	1	108	23.96	23.99	23.94	24.6
40	QPSK	1	214	24.01	24.04	23.99	
40	QPSK	108	0	22.91	22.94	22.89	
40	QPSK	108	54	23.94	23.97	23.92	24.6
40	QPSK	108	108	22.95	22.98	22.93	23.6
40	QPSK	216	0	22.98	23.01	22.96	
40	16QAM	1	1	22.95	22.98	22.93	
40	64QAM	1	1	21.44	21.47	21.43	22.1
40	256QAM	1	1	19.42	19.44	19.40	20.1
Channel				373500	376000	378500	Tune-up limit (dBm)
Frequency (MHz)				1867.5	1880	1892.5	
35	PI/2 BPSK	1	1	23.96	23.97	23.92	
Channel				373000	376000	379000	Tune-up limit (dBm)
Frequency (MHz)				1865	1880	1895	
30	PI/2 BPSK	1	1	23.95	23.95	23.96	
Channel				372500	376000	379500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1880	1897.5	
25	PI/2 BPSK	1	1	23.79	23.85	23.86	
Channel				372000	376000	380000	Tune-up limit (dBm)
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	23.93	23.97	23.95	
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	23.95	24.02	23.91	
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	23.95	24.04	23.98	



<FR1 n5_Ant Main_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				166800	167300	167800	
Frequency (MHz)				834	836.5	839	
20	PI/2 BPSK	1	1	24.20	24.30	24.22	24.5
20	PI/2 BPSK	1	53	24.29	24.38	24.33	
20	PI/2 BPSK	1	104	24.11	24.20	24.13	
20	PI/2 BPSK	50	0	24.19	24.28	24.20	24.5
20	PI/2 BPSK	50	28	24.23	24.35	24.30	24.5
20	PI/2 BPSK	50	56	24.16	24.27	24.18	24.5
20	PI/2 BPSK	100	0	24.15	24.26	24.16	
20	QPSK	1	1	24.07	24.21	24.15	24.5
20	QPSK	1	53	24.17	24.26	24.16	
20	QPSK	1	104	24.06	24.16	24.06	
20	QPSK	50	0	23.67	23.78	23.73	24.0
20	QPSK	50	28	24.21	24.30	24.21	24.5
20	QPSK	50	56	23.65	23.75	23.70	24.0
20	QPSK	100	0	23.58	23.72	23.67	
20	16QAM	1	1	23.57	23.69	23.64	24.0
20	64QAM	1	1	22.08	22.19	22.14	22.5
20	256QAM	1	1	20.00	20.09	19.99	20.5
Channel				166300	167300	168300	Tune-up limit (dBm)
Frequency (MHz)				831.5	836.5	841.5	
15	PI/2 BPSK	1	1	24.12	24.17	24.08	24.5
Channel				165800	167300	168800	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844	
10	PI/2 BPSK	1	1	24.10	24.25	24.13	24.5
Channel				165300	167300	169300	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	PI/2 BPSK	1	1	24.15	24.19	24.07	24.5

**<FR1 n7_Ant Main_Sensor OFF>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				504000	507000	510000	
Frequency (MHz)				2520	2535	2550	
40	PI/2 BPSK	1	1	23.83	23.98	23.91	24.5
40	PI/2 BPSK	1	108	24.03	24.15	24.13	
40	PI/2 BPSK	1	214	23.93	24.08	24.05	
40	PI/2 BPSK	108	0	23.39	23.51	23.44	24.0
40	PI/2 BPSK	108	54	23.95	24.09	24.07	24.5
40	PI/2 BPSK	108	108	23.41	23.57	23.55	24.0
40	PI/2 BPSK	216	0	23.39	23.54	23.52	
40	QPSK	1	1	23.84	23.97	23.94	24.5
40	QPSK	1	108	23.92	24.07	24.00	
40	QPSK	1	214	23.89	24.01	23.97	
40	QPSK	108	0	22.80	22.94	22.87	23.5
40	QPSK	108	54	23.85	23.99	23.92	24.5
40	QPSK	108	108	22.87	23.02	22.95	23.5
40	QPSK	216	0	22.83	23.00	22.96	
40	16QAM	1	1	22.78	22.91	22.86	23.5
40	64QAM	1	1	21.22	21.37	21.33	22.0
40	256QAM	1	1	19.30	19.46	19.40	20.0
Channel				503500	507000	510500	Tune-up limit (dBm)
Frequency (MHz)				2517.5	2535	2552.5	
35	PI/2 BPSK	1	1	23.77	23.87	23.86	24.5
Channel				503000	507000	511000	Tune-up limit (dBm)
Frequency (MHz)				2515	2535	2555	
30	PI/2 BPSK	1	1	23.75	23.85	23.83	24.5
Channel				502500	507000	511500	Tune-up limit (dBm)
Frequency (MHz)				2512.5	2535	2557.5	
25	PI/2 BPSK	1	1	23.76	23.93	23.86	24.5
Channel				502000	507000	512000	Tune-up limit (dBm)
Frequency (MHz)				2510	2535	2560	
20	PI/2 BPSK	1	1	23.79	23.86	23.81	24.5
Channel				501500	507000	512500	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	PI/2 BPSK	1	1	23.76	23.87	23.88	24.5
Channel				501000	507000	513000	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	PI/2 BPSK	1	1	23.72	23.88	23.80	24.5
Channel				500500	507000	513500	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	PI/2 BPSK	1	1	23.80	23.95	23.81	24.5



<FR1 n7_Ant MIMO2_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				504000	507000	510000	
Frequency (MHz)				2520	2535	2550	
40	PI/2 BPSK	1	1	23.76	23.78	23.74	
40	PI/2 BPSK	1	108	23.89	23.91	23.87	24.5
40	PI/2 BPSK	1	214	23.77	23.79	23.75	
40	PI/2 BPSK	108	0	23.25	23.27	23.23	
40	PI/2 BPSK	108	54	23.87	23.89	23.85	24.5
40	PI/2 BPSK	108	108	23.17	23.19	23.15	24.0
40	PI/2 BPSK	216	0	23.29	23.31	23.27	
40	QPSK	1	1	23.69	23.71	23.67	
40	QPSK	1	108	23.85	23.87	23.83	24.5
40	QPSK	1	214	23.74	23.76	23.72	
40	QPSK	108	0	22.76	22.78	22.74	
40	QPSK	108	54	23.78	23.80	23.76	24.5
40	QPSK	108	108	22.69	22.71	22.67	23.5
40	QPSK	216	0	22.77	22.79	22.75	
40	16QAM	1	1	22.63	22.65	22.61	
40	64QAM	1	1	21.16	21.18	21.14	22.0
40	256QAM	1	1	19.16	19.18	19.15	20.0
Channel				503500	507000	510500	Tune-up limit (dBm)
Frequency (MHz)				2517.5	2535	2552.5	
35	PI/2 BPSK	1	1	23.66	23.76	23.67	
Channel				503000	507000	511000	Tune-up limit (dBm)
Frequency (MHz)				2515	2535	2555	
30	PI/2 BPSK	1	1	23.67	23.76	23.66	
Channel				502500	507000	511500	Tune-up limit (dBm)
Frequency (MHz)				2512.5	2535	2557.5	
25	PI/2 BPSK	1	1	23.69	23.68	23.69	
Channel				502000	507000	512000	Tune-up limit (dBm)
Frequency (MHz)				2510	2535	2560	
20	PI/2 BPSK	1	1	23.67	23.71	23.68	
Channel				501500	507000	512500	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	PI/2 BPSK	1	1	23.74	23.72	23.72	
Channel				501000	507000	513000	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	PI/2 BPSK	1	1	23.71	23.75	23.66	
Channel				500500	507000	513500	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	PI/2 BPSK	1	1	23.66	23.69	23.71	

<FR1 n12_Ant Main_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				141300	141500	141700	
Frequency (MHz)				706.5	707.5	708.5	
15	PI/2 BPSK	1	1	24.16	24.24	24.17	24.5
15	PI/2 BPSK	1	40	24.23	24.31	24.26	
15	PI/2 BPSK	1	77	24.08	24.21	24.12	
15	PI/2 BPSK	36	0	23.96	24.09	24.04	24.5
15	PI/2 BPSK	36	22	24.07	24.16	24.06	24.5
15	PI/2 BPSK	36	43	24.01	24.13	24.07	24.5
15	PI/2 BPSK	75	0	24.06	24.16	24.10	
15	QPSK	1	1	24.08	24.18	24.08	24.5
15	QPSK	1	40	24.12	24.24	24.15	
15	QPSK	1	77	24.00	24.12	24.04	
15	QPSK	36	0	23.49	23.57	23.49	24.0
15	QPSK	36	22	23.98	24.07	23.99	24.5
15	QPSK	36	43	23.54	23.64	23.55	24.0
15	QPSK	75	0	23.55	23.68	23.63	
15	16QAM	1	1	23.51	23.61	23.52	24.0
15	64QAM	1	1	22.09	22.18	22.09	22.5
	256QAM	1	1	20.03	20.11	20.05	20.5
Channel				140800	141500	142200	Tune-up limit (dBm)
Frequency (MHz)				704	707.5	711	
10	PI/2 BPSK	1	1	24.12	24.20	24.09	24.5
Channel				140300	141500	142700	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	PI/2 BPSK	1	1	24.13	24.20	24.08	24.5

<FR1 n13_Ant Main_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					156400		
Frequency (MHz)					782		
10	PI/2 BPSK	1	1		24.20		24.5
10	PI/2 BPSK	1	26		24.23		
10	PI/2 BPSK	1	50		24.11		
10	PI/2 BPSK	25	0		24.15		24.5
10	PI/2 BPSK	25	14		24.19		24.5
10	PI/2 BPSK	25	27		24.16		24.5
10	PI/2 BPSK	50	0		24.18		
10	QPSK	1	1		24.16		24.5
10	QPSK	1	26		24.18		
10	QPSK	1	50		24.09		
10	QPSK	25	0		23.71		24.0
10	QPSK	25	14		24.09		24.5
10	QPSK	25	27		23.66		24.0
10	QPSK	50	0		23.62		
10	16QAM	1	1		23.73		24.0
10	64QAM	1	1		22.25		22.5
10	256QAM	1	1		20.26		20.5
Channel				155900	156400	156900	Tune-up limit (dBm)
Frequency (MHz)				779.5	782	784.5	
5	PI/2 BPSK	1	1	24.04	24.17	24.04	24.5

**<FR1 n14_Ant Main_Sensor OFF>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					158600		
Frequency (MHz)					793		
10	PI/2 BPSK	1	1		24.19		24.5
10	PI/2 BPSK	1	26		24.22		
10	PI/2 BPSK	1	50		24.06		
10	PI/2 BPSK	25	0		24.10		24.5
10	PI/2 BPSK	25	14		24.13		24.5
10	PI/2 BPSK	25	27		24.08		24.5
10	PI/2 BPSK	50	0		24.14		
10	QPSK	1	1		24.17		24.5
10	QPSK	1	26		24.11		
10	QPSK	1	50		24.00		
10	QPSK	25	0		23.64		24.0
10	QPSK	25	14		24.04		24.5
10	QPSK	25	27		23.55		24.0
10	QPSK	50	0		23.65		
10	16QAM	1	1		23.60		24.0
10	64QAM	1	1		22.09		22.5
10	256QAM	1	1		20.12		20.5
Channel				158100	158600	159100	Tune-up limit (dBm)
Frequency (MHz)				790.5	793	795.5	
5	PI/2 BPSK	1	1	24.02	24.07	23.98	24.5

<FR1 n25_Ant Main_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376500	379000	
Frequency (MHz)				1870	1882.5	1895	
40	PI/2 BPSK	1	1	23.86	23.99	23.88	24.6
40	PI/2 BPSK	1	108	23.98	24.06	23.96	
40	PI/2 BPSK	1	214	23.94	24.03	23.92	
40	PI/2 BPSK	108	0	23.28	23.41	23.29	24.1
40	PI/2 BPSK	108	54	23.82	23.94	23.81	24.6
40	PI/2 BPSK	108	108	23.37	23.49	23.35	24.1
40	PI/2 BPSK	216	0	23.44	23.55	23.42	
40	QPSK	1	1	23.85	23.97	23.87	24.6
40	QPSK	1	108	23.89	24.02	23.92	
40	QPSK	1	214	23.81	23.91	23.77	
40	QPSK	108	0	22.85	22.95	22.82	23.6
40	QPSK	108	54	23.74	23.86	23.72	24.6
40	QPSK	108	108	22.81	22.92	22.78	23.6
40	QPSK	216	0	22.82	22.90	22.79	
40	16QAM	1	1	22.87	22.98	22.87	23.6
40	64QAM	1	1	21.42	21.50	21.38	22.1
40	256QAM	1	1	19.33	19.44	19.33	20.1
Channel				373500	376500	379500	Tune-up limit (dBm)
Frequency (MHz)				1867.5	1882.5	1897.5	
35	PI/2 BPSK	1	1	23.78	23.86	23.83	24.6
Channel				373000	376500	380000	Tune-up limit (dBm)
Frequency (MHz)				1865	1882.5	1900	
30	PI/2 BPSK	1	1	23.82	23.87	23.83	24.6
Channel				372500	376500	380500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1882.5	1902.5	
25	PI/2 BPSK	1	1	23.73	23.90	23.77	24.6
Channel				372000	376500	381000	Tune-up limit (dBm)
Frequency (MHz)				1860	1882.5	1905	



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20	PI/2 BPSK	1	1	23.76	23.88	23.80	24.6
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	23.81	23.92	23.77	24.6
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	23.83	23.91	23.78	24.6
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	23.80	23.86	23.75	24.6

<FR1 n25_Ant MIMO2_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376500	379000	
Frequency (MHz)				1870	1882.5	1895	
40	PI/2 BPSK	1	1	23.99	24.03	24.01	24.6
40	PI/2 BPSK	1	108	24.03	24.07	24.05	
40	PI/2 BPSK	1	214	23.98	24.02	24.00	
40	PI/2 BPSK	108	0	23.46	23.50	23.48	24.1
40	PI/2 BPSK	108	54	24.01	24.05	24.03	24.6
40	PI/2 BPSK	108	108	23.51	23.55	23.53	24.1
40	PI/2 BPSK	216	0	23.48	23.52	23.50	
40	QPSK	1	1	24.01	24.05	24.03	24.6
40	QPSK	1	108	24.00	24.04	24.02	
40	QPSK	1	214	23.97	24.01	23.99	
40	QPSK	108	0	22.95	22.99	22.97	23.6
40	QPSK	108	54	23.89	23.93	23.91	24.6
40	QPSK	108	108	22.97	23.01	22.99	23.6
40	QPSK	216	0	22.94	22.98	22.96	
40	16QAM	1	1	22.91	22.95	22.93	23.6
40	64QAM	1	1	21.50	21.54	21.52	22.1
40	256QAM	1	1	19.47	19.50	19.48	20.1
Channel				373500	376500	379500	Tune-up limit (dBm)
Frequency (MHz)				1867.5	1882.5	1897.5	
35	PI/2 BPSK	1	1	23.93	23.97	23.94	24.6
Channel				373000	376500	380000	Tune-up limit (dBm)
Frequency (MHz)				1865	1882.5	1900	
30	PI/2 BPSK	1	1	23.93	23.99	23.96	24.6
Channel				372500	376500	380500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1882.5	1902.5	
25	PI/2 BPSK	1	1	23.92	23.94	23.91	24.6
Channel				372000	376500	381000	Tune-up limit (dBm)
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	23.94	23.99	24.00	24.6
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	23.91	24.02	23.93	24.6
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	23.96	23.95	23.99	24.6
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	23.89	23.94	23.95	24.6

<FR1 n26_Ant Main_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				164800	166300	167800	
Frequency (MHz)				824	831.5	839	
20	PI/2 BPSK	1	1	24.13	24.18	23.96	24.5
20	PI/2 BPSK	1	53	24.20	24.23	24.06	
20	PI/2 BPSK	1	104	24.02	24.07	23.86	
20	PI/2 BPSK	50	0	24.06	24.14	23.95	24.5
20	PI/2 BPSK	50	28	24.16	24.21	24.01	24.5
20	PI/2 BPSK	50	56	24.01	24.09	23.91	24.5
20	PI/2 BPSK	100	0	24.02	24.10	23.91	
20	QPSK	1	1	24.06	24.12	23.92	24.5
20	QPSK	1	53	24.08	24.14	23.95	
20	QPSK	1	104	23.97	24.01	23.79	
20	QPSK	50	0	23.57	23.61	23.41	24.0
20	QPSK	50	28	24.12	24.15	23.98	24.5
20	QPSK	50	56	23.53	23.61	23.40	24.0
20	QPSK	100	0	23.48	23.56	23.35	
20	16QAM	1	1	23.57	23.60	23.43	24.0
20	64QAM	1	1	22.15	22.21	22.03	22.5
20	256QAM	1	1	20.09	20.16	19.97	20.5
Channel				164300	166300	168300	Tune-up limit (dBm)
Frequency (MHz)				821.5	831.5	841.5	
15	PI/2 BPSK	1	1	24.03	24.08	23.90	24.5
Channel				163800	166300	168800	Tune-up limit (dBm)
Frequency (MHz)				819	831.5	844	
10	PI/2 BPSK	1	1	24.04	24.10	23.86	24.5
Channel				163300	166300	169300	Tune-up limit (dBm)
Frequency (MHz)				816.5	831.5	846.5	
5	PI/2 BPSK	1	1	24.00	24.05	23.88	24.5

<FR1 n30_Ant Main_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					462000		
Frequency (MHz)					2310		
10	PI/2 BPSK	1	1		22.61		23.0
10	PI/2 BPSK	1	26		22.66		
10	PI/2 BPSK	1	50		22.59		
10	PI/2 BPSK	25	0		22.16		22.5
10	PI/2 BPSK	25	14		22.58		23.0
10	PI/2 BPSK	25	27		22.12		22.5
10	PI/2 BPSK	50	0		22.14		
10	QPSK	1	1		22.61		23.0
10	QPSK	1	26		22.58		
10	QPSK	1	50		22.60		
10	QPSK	25	0		21.62		22.0
10	QPSK	25	14		22.53		23.0
10	QPSK	25	27		21.64		22.0
10	QPSK	50	0		21.63		
10	16QAM	1	1		21.66		22.0
10	64QAM	1	1		20.12		20.5
10	256QAM	1	1		18.04		18.5
Channel				461500	462000	462500	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	PI/2 BPSK	1	1	22.50	22.52	22.48	23.0

**<FR1 n30_Ant MIMO2_Sensor OFF>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					462000		
Frequency (MHz)					2310		
10	PI/2 BPSK	1	1		22.12		
10	PI/2 BPSK	1	26		22.15		23.0
10	PI/2 BPSK	1	50		22.04		
10	PI/2 BPSK	25	0		21.55		
10	PI/2 BPSK	25	14		22.00		22.5
10	PI/2 BPSK	25	27		21.52		23.0
10	PI/2 BPSK	50	0		21.53		
10	QPSK	1	1		22.04		
10	QPSK	1	26		22.09		22.0
10	QPSK	1	50		22.01		
10	QPSK	25	0		21.04		
10	QPSK	25	14		21.92		23.0
10	QPSK	25	27		21.00		22.0
10	QPSK	50	0		21.01		
10	16QAM	1	1		21.02		
10	64QAM	1	1		19.50		20.5
10	256QAM	1	1		17.49		18.5
Channel				461500	462000	462500	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	PI/2 BPSK	1	1	22.01	22.08	22.03	

<FR1 n66_Ant Main_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				346000	349000	352000	
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	23.96	24.01	24.00	
40	PI/2 BPSK	1	108	24.01	24.04	24.03	24.5
40	PI/2 BPSK	1	214	23.96	24.00	23.97	
40	PI/2 BPSK	108	0	23.38	23.43	23.38	
40	PI/2 BPSK	108	54	23.94	24.02	23.99	24.0
40	PI/2 BPSK	108	108	23.36	23.43	23.40	24.5
40	PI/2 BPSK	216	0	23.32	23.40	23.35	
40	QPSK	1	1	23.86	23.93	23.87	
40	QPSK	1	108	23.96	23.99	23.93	24.5
40	QPSK	1	214	23.88	23.94	23.92	
40	QPSK	108	0	22.88	22.93	22.88	
40	QPSK	108	54	23.85	23.89	23.88	23.5
40	QPSK	108	108	22.88	22.94	22.89	24.5
40	QPSK	216	0	22.92	22.98	22.93	
40	16QAM	1	1	22.89	22.94	22.92	
40	64QAM	1	1	21.43	21.49	21.44	22.0
40	256QAM	1	1	19.29	19.35	19.29	20.0
Channel				345500	349000	352500	Tune-up limit (dBm)
Frequency (MHz)				1727.5	1745	1762.5	
35	PI/2 BPSK	1	1	23.88	23.95	23.96	
Channel				345000	349000	353000	Tune-up limit (dBm)
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	23.93	23.97	23.91	
Channel				344500	349000	353500	Tune-up limit (dBm)
Frequency (MHz)				1722.5	1745	1767.5	
25	PI/2 BPSK	1	1	23.87	23.94	23.93	
Channel				344000	349000	354000	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	23.92	23.93	23.91	



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Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	23.88	23.96	23.94	24.5
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	23.90	23.92	23.91	24.5
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	23.88	23.96	23.96	24.5

<FR1 n66_Ant MIMO2_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				346000	349000	352000	
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	24.25	24.29	24.24	24.5
40	PI/2 BPSK	1	108	24.32	24.35	24.31	
40	PI/2 BPSK	1	214	24.23	24.26	24.20	
40	PI/2 BPSK	108	0	23.69	23.73	23.66	24.0
40	PI/2 BPSK	108	54	24.25	24.31	24.27	24.5
40	PI/2 BPSK	108	108	23.70	23.78	23.73	24.0
40	PI/2 BPSK	216	0	23.74	23.77	23.72	
40	QPSK	1	1	24.23	24.26	24.17	24.5
40	QPSK	1	108	24.15	24.23	24.16	
40	QPSK	1	214	24.26	24.32	24.25	
40	QPSK	108	0	23.12	23.20	23.11	23.5
40	QPSK	108	54	24.14	24.21	24.12	24.5
40	QPSK	108	108	23.15	23.22	23.17	23.5
40	QPSK	216	0	23.19	23.25	23.16	
40	16QAM	1	1	23.13	23.21	23.17	23.5
40	64QAM	1	1	21.69	21.73	21.69	22.0
40	256QAM	1	1	19.65	19.69	19.65	20.0
Channel				345500	349000	352500	Tune-up limit (dBm)
Frequency (MHz)				1727.5	1745	1762.5	
35	PI/2 BPSK	1	1	24.15	24.17	24.13	24.5
Channel				345000	349000	353000	Tune-up limit (dBm)
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	24.12	24.10	24.04	24.5
Channel				344500	349000	353500	Tune-up limit (dBm)
Frequency (MHz)				1722.5	1745	1767.5	
25	PI/2 BPSK	1	1	24.12	24.17	24.11	24.5
Channel				344000	349000	354000	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	24.15	24.17	24.07	24.5
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	24.15	24.18	24.06	24.5
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	24.13	24.17	24.06	24.5
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	24.13	24.17	24.07	24.5

**<FR1 n70_Ant Main_Sensor OFF>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					340500		
Frequency (MHz)					1702.5		
15	PI/2 BPSK	1	1		23.95		24.6
15	PI/2 BPSK	1	40		23.98		
15	PI/2 BPSK	1	77		23.96		
15	PI/2 BPSK	36	0		23.39		24.1
15	PI/2 BPSK	36	22		23.92		24.6
15	PI/2 BPSK	36	43		23.47		24.1
15	PI/2 BPSK	75	0		23.40		
15	QPSK	1	1		23.90		24.6
15	QPSK	1	40		23.92		
15	QPSK	1	77		23.91		
15	QPSK	36	0		22.89		23.6
15	QPSK	36	22		23.83		24.6
15	QPSK	36	43		22.96		23.6
15	QPSK	75	0		22.89		
15	16QAM	1	1		22.86		23.6
15	64QAM	1	1		21.39		22.1
15	256QAM	1	1		19.43		20.1
Channel				340000	340500	341000	Tune-up limit (dBm)
Frequency (MHz)				1700	1702.5	1705	
10	PI/2 BPSK	1	1	23.89	23.84	23.83	24.6
Channel				339500	340500	341500	Tune-up limit (dBm)
Frequency (MHz)				1697.5	1702.5	1707.5	
5	PI/2 BPSK	1	1	23.92	23.91	23.86	24.6

<FR1 n70_Ant MIMO2_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					340500		
Frequency (MHz)					1702.5		
15	PI/2 BPSK	1	1		23.78		24.6
15	PI/2 BPSK	1	40		23.83		
15	PI/2 BPSK	1	77		23.74		
15	PI/2 BPSK	36	0		23.24		24.1
15	PI/2 BPSK	36	22		23.77		24.6
15	PI/2 BPSK	36	43		23.32		24.1
15	PI/2 BPSK	75	0		23.25		
15	QPSK	1	1		23.70		24.6
15	QPSK	1	40		23.75		
15	QPSK	1	77		23.68		
15	QPSK	36	0		22.75		23.6
15	QPSK	36	22		23.68		24.6
15	QPSK	36	43		22.82		23.6
15	QPSK	75	0		22.75		
15	16QAM	1	1		22.75		23.6
15	64QAM	1	1		21.28		22.1
15	256QAM	1	1		19.33		20.1
Channel				340000	340500	341000	Tune-up limit (dBm)
Frequency (MHz)				1700	1702.5	1705	
10	PI/2 BPSK	1	1	23.63	23.78	23.69	24.6
Channel				339500	340500	341500	Tune-up limit (dBm)
Frequency (MHz)				1697.5	1702.5	1707.5	
5	PI/2 BPSK	1	1	23.68	23.76	23.61	24.6



<FR1 n71_Ant Main_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				134600	136100	137600	
Frequency (MHz)				673	680.5	688	
20	PI/2 BPSK	1	1	23.27	23.34	23.21	
20	PI/2 BPSK	1	53	23.40	23.45	23.36	24.5
20	PI/2 BPSK	1	104	23.22	23.32	23.21	
20	PI/2 BPSK	50	0	23.32	23.38	23.28	
20	PI/2 BPSK	50	28	23.32	23.40	23.29	24.0
20	PI/2 BPSK	50	56	23.27	23.35	23.26	24.5
20	PI/2 BPSK	100	0	23.32	23.41	23.27	
20	QPSK	1	1	23.20	23.29	23.20	
20	QPSK	1	53	23.23	23.33	23.20	24.5
20	QPSK	1	104	23.22	23.29	23.17	
20	QPSK	50	0	23.27	23.35	23.26	
20	QPSK	50	28	23.29	23.37	23.25	23.5
20	QPSK	50	56	23.28	23.33	23.24	24.5
20	QPSK	100	0	23.21	23.27	23.14	
20	16QAM	1	1	23.10	23.17	23.07	
20	64QAM	1	1	21.82	21.91	21.80	23.5
20	256QAM	1	1	19.85	19.95	19.84	22.0
Channel				134100	136100	138100	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	PI/2 BPSK	1	1	23.20	23.25	23.15	
Channel				133600	136100	138600	Tune-up limit (dBm)
Frequency (MHz)				668	680.5	693	
10	PI/2 BPSK	1	1	23.18	23.20	23.09	
Channel				133100	136100	139100	Tune-up limit (dBm)
Frequency (MHz)				665.5	680.5	695.5	
5	PI/2 BPSK	1	1	23.24	23.19	23.15	



<FR1 n38_Ant Main_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				518000	519000	520000	
Frequency (MHz)				2590	2595	2600	
40	PI/2 BPSK	1	1	24.09	24.12	24.06	24.7
40	PI/2 BPSK	1	53	23.96	23.99	23.83	
40	PI/2 BPSK	1	104	23.70	23.77	23.68	
40	PI/2 BPSK	50	0	23.47	23.58	23.52	24.2
40	PI/2 BPSK	50	28	24.00	24.08	23.94	24.7
40	PI/2 BPSK	50	56	23.35	23.38	23.29	24.2
40	PI/2 BPSK	100	0	23.45	23.49	23.34	
40	QPSK	1	1	23.93	24.00	23.87	24.7
40	QPSK	1	53	23.77	23.89	23.75	
40	QPSK	1	104	23.73	23.78	23.63	
40	QPSK	50	0	23.05	23.09	22.94	23.7
40	QPSK	50	28	23.93	23.99	23.86	24.7
40	QPSK	50	56	22.77	22.89	22.81	23.7
40	QPSK	100	0	22.84	22.95	22.87	
40	16QAM	1	1	22.95	23.05	22.93	23.7
40	64QAM	1	1	21.44	21.47	21.39	22.2
40	256QAM	1	1	19.53	19.61	19.48	20.2
Channel				517000	519000	521000	Tune-up limit (dBm)
Frequency (MHz)				2585	2595	2605	
30	PI/2 BPSK	1	1	24.02	24.09	23.97	24.7
Channel				516500	519000	521500	Tune-up limit (dBm)
Frequency (MHz)				2582.5	2595	2607.5	
25	PI/2 BPSK	1	1	23.97	23.99	24.02	24.7
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	24.06	23.99	23.98	24.7
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	24.00	24.05	23.96	24.7
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	24.02	24.06	23.96	24.7



FCC SAR TEST REPORT

Report No. : FA521318-03

<FR1 n38_Ant MIMO2_Sensor
OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				518000	519000	520000	
Frequency (MHz)				2590	2595	2600	
40	PI/2 BPSK	1	1	23.71	23.77	23.72	24.7
40	PI/2 BPSK	1	53	23.41	23.50	23.43	
40	PI/2 BPSK	1	104	22.93	23.03	22.93	
40	PI/2 BPSK	50	0	23.04	23.13	23.04	24.2
40	PI/2 BPSK	50	28	23.55	23.61	23.53	24.7
40	PI/2 BPSK	50	56	22.82	22.92	22.84	24.2
40	PI/2 BPSK	100	0	23.04	23.10	23.04	
40	QPSK	1	1	23.64	23.70	23.65	24.7
40	QPSK	1	53	23.35	23.42	23.33	
40	QPSK	1	104	22.87	22.96	22.91	
40	QPSK	50	0	22.51	22.61	22.56	23.7
40	QPSK	50	28	23.44	23.53	23.46	24.7
40	QPSK	50	56	22.32	22.37	22.29	23.7
40	QPSK	100	0	22.43	22.52	22.44	
40	16QAM	1	1	22.53	22.59	22.53	23.7
40	64QAM	1	1	21.04	21.12	21.07	22.2
40	256QAM	1	1	19.06	19.13	19.07	20.2
Channel				517000	519000	521000	Tune-up limit (dBm)
Frequency (MHz)				2585	2595	2605	
30	PI/2 BPSK	1	1	23.61	23.72	23.63	24.7
Channel				516500	519000	521500	Tune-up limit (dBm)
Frequency (MHz)				2582.5	2595	2607.5	
25	PI/2 BPSK	1	1	23.65	23.62	23.60	24.7
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	23.63	23.70	23.63	24.7
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	23.60	23.71	23.60	24.7
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	23.66	23.67	23.59	24.7



<FR1 n41_Ant Main_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	23.76	24.12	23.97	25.0
100	PI/2 BPSK	1	137	23.44	23.88	23.67	
100	PI/2 BPSK	1	271	23.53	23.95	23.80	
100	PI/2 BPSK	135	0	23.34	23.73	23.53	24.5
100	PI/2 BPSK	135	69	23.49	23.86	23.65	25.0
100	PI/2 BPSK	135	138	23.07	23.53	23.36	24.5
100	PI/2 BPSK	270	0	23.23	23.63	23.42	
100	QPSK	1	1	23.70	24.08	23.84	25.0
100	QPSK	1	137	23.44	23.85	23.70	
100	QPSK	1	271	23.57	23.97	23.81	
100	QPSK	135	0	22.76	23.16	23.01	24.0
100	QPSK	135	69	23.40	23.82	23.62	25.0
100	QPSK	135	138	22.61	23.03	22.81	24.0
100	QPSK	270	0	22.67	23.09	22.86	
100	16QAM	1	1	22.78	23.17	22.99	24.0
100	64QAM	1	1	21.30	21.73	21.53	22.5
100	256QAM	1	1	19.27	19.70	19.45	20.5
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	23.72	24.01	23.88	25.0
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	23.63	23.97	23.94	25.0
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	23.62	24.02	23.88	25.0
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	23.71	24.03	23.93	25.0
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	23.61	23.98	23.91	25.0
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	23.72	23.98	23.86	25.0
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	23.71	24.08	23.91	25.0
Channel				501702	518598	535500	Tune-up limit (dBm)
Frequency (MHz)				2508.51	2592.99	2677.5	
25	PI/2 BPSK	1	1	23.64	24.02	23.82	25.0
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	23.72	24.02	23.93	25.0
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	23.67	24.07	23.86	25.0
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	23.71	24.02	23.83	25.0



<FR1 n41_Ant MIMO2_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	25.0
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	24.06	24.20	23.83	
100	PI/2 BPSK	1	137	23.63	23.76	23.39	24.5
100	PI/2 BPSK	1	271	23.27	23.41	23.05	
100	PI/2 BPSK	135	0	23.82	23.95	23.55	
100	PI/2 BPSK	135	69	23.50	23.70	23.31	24.5
100	PI/2 BPSK	135	138	23.29	23.47	23.09	
100	PI/2 BPSK	270	0	23.59	23.75	23.40	
100	QPSK	1	1	24.07	24.18	23.82	25.0
100	QPSK	1	137	23.57	23.70	23.33	
100	QPSK	1	271	23.22	23.39	23.08	
100	QPSK	135	0	23.73	23.92	23.54	24.0
100	QPSK	135	69	23.52	23.63	23.27	
100	QPSK	135	138	23.23	23.43	23.12	
100	QPSK	270	0	23.57	23.75	23.44	24.0
100	16QAM	1	1	22.98	23.12	22.76	
100	64QAM	1	1	21.99	22.13	21.76	
100	256QAM	1	1	20.04	20.15	19.81	20.5
Channel				508200	518598	528996	25.0
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	23.98	24.05	23.76	
Channel				507204	518598	529998	25.0
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	23.92	24.06	23.78	
Channel				506202	518598	531000	25.0
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	23.97	24.09	23.77	
Channel				505200	518598	531996	25.0
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	23.91	24.06	23.68	
Channel				504204	518598	532998	25.0
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	23.97	24.12	23.69	
Channel				503202	518598	534000	25.0
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	24.00	24.07	23.77	
Channel				502200	518598	534996	25.0
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	23.92	24.12	23.69	
Channel				501702	518598	535500	25.0
Frequency (MHz)				2508.51	2592.99	2677.5	
25	PI/2 BPSK	1	1	23.98	24.08	23.75	
Channel				501204	518598	535998	25.0
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	23.92	24.05	23.78	
Channel				500700	518598	536496	25.0
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	23.97	24.10	23.68	
Channel				500202	518598	537000	25.0
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	23.99	24.05	23.72	

<FR1 n41_HPUE_Ant Main_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	25.73	26.17	26.01	27.0
100	PI/2 BPSK	1	137	25.39	25.93	25.69	
100	PI/2 BPSK	1	271	25.50	25.96	25.76	
100	PI/2 BPSK	135	0	25.41	25.86	25.64	26.5
100	PI/2 BPSK	135	69	25.44	25.95	25.74	27.0
100	PI/2 BPSK	135	138	25.40	25.92	25.70	26.5
100	PI/2 BPSK	270	0	25.50	25.96	25.73	
100	QPSK	1	1	25.68	26.12	25.93	27.0
100	QPSK	1	137	25.39	25.88	25.66	
100	QPSK	1	271	25.49	25.94	25.76	
100	QPSK	135	0	25.38	25.91	25.67	26.0
100	QPSK	135	69	25.31	25.79	25.61	27.0
100	QPSK	135	138	25.37	25.87	25.66	26.0
100	QPSK	270	0	25.41	25.88	25.66	
100	16QAM	1	1	25.50	25.94	25.75	26.0
100	64QAM	1	1	23.94	24.48	24.26	24.5
100	256QAM	1	1	21.98	22.45	22.21	22.5
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	25.69	26.06	25.94	27.0
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	25.62	26.07	25.93	27.0
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	25.67	26.04	25.93	27.0
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	25.62	26.04	25.98	27.0
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	25.62	26.13	25.88	27.0
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	25.61	26.04	25.94	27.0
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	25.61	26.04	25.91	27.0
Channel				501702	518598	535500	Tune-up limit (dBm)
Frequency (MHz)				2508.51	2592.99	2677.5	
25	PI/2 BPSK	1	1	25.69	26.06	25.95	27.0
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	25.70	26.06	25.97	27.0
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	25.69	26.09	25.95	27.0
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	25.70	26.13	25.90	27.0



<FR1 n41_HPUE_Ant MIMO2_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	27.0
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	25.21	26.80	26.72	
100	PI/2 BPSK	1	137	26.35	25.60	26.60	26.5
100	PI/2 BPSK	1	271	25.52	25.16	25.76	
100	PI/2 BPSK	135	0	25.56	25.66	24.78	
100	PI/2 BPSK	135	69	25.95	25.71	26.36	27.0
100	PI/2 BPSK	135	138	25.45	24.94	24.80	26.5
100	PI/2 BPSK	270	0	26.20	25.82	25.16	
100	QPSK	1	1	25.01	26.59	25.72	
100	QPSK	1	137	26.16	25.37	25.01	27.0
100	QPSK	1	271	25.33	25.09	25.60	
100	QPSK	135	0	25.29	25.37	24.24	
100	QPSK	135	69	26.20	25.70	26.60	27.0
100	QPSK	135	138	25.25	24.20	24.26	26.0
100	QPSK	270	0	25.65	25.08	24.85	
100	16QAM	1	1	24.12	25.78	25.93	
100	64QAM	1	1	23.40	24.41	24.47	24.5
100	256QAM	1	1	22.31	22.44	22.43	22.5
Channel				508200	518598	528996	27.0
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	25.12	26.68	26.62	
Channel				507204	518598	529998	27.0
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	25.16	26.74	26.65	
Channel				506202	518598	531000	27.0
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	25.07	26.68	26.65	
Channel				505200	518598	531996	27.0
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	25.14	26.75	26.62	
Channel				504204	518598	532998	27.0
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	25.14	26.75	26.64	
Channel				503202	518598	534000	27.0
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	25.06	26.71	26.57	
Channel				502200	518598	534996	27.0
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	25.06	26.67	26.67	
Channel				501702	518598	535500	27.0
Frequency (MHz)				2508.51	2592.99	2677.5	
25	PI/2 BPSK	1	1	25.08	26.66	26.59	
Channel				501204	518598	535998	27.0
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	25.12	26.67	26.62	
Channel				500700	518598	536496	27.0
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	25.16	26.68	26.64	
Channel				500202	518598	537000	27.0
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	25.06	26.74	26.58	



<FR1 n41_IC_Ant Main_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				510000	518598	528000	
Frequency (MHz)				2550	2592.99	2640	
100	PI/2 BPSK	1	1	23.72	24.12	23.97	25.0
100	PI/2 BPSK	1	137	23.41	23.88	23.67	
100	PI/2 BPSK	1	271	23.47	23.95	23.80	
100	PI/2 BPSK	135	0	23.25	23.73	23.53	24.5
100	PI/2 BPSK	135	69	23.43	23.86	23.65	25.0
100	PI/2 BPSK	135	138	23.07	23.53	23.36	24.5
100	PI/2 BPSK	270	0	23.13	23.63	23.42	
100	QPSK	1	1	23.68	24.08	23.84	25.0
100	QPSK	1	137	23.41	23.85	23.70	
100	QPSK	1	271	23.55	23.97	23.81	
100	QPSK	135	0	22.70	23.16	23.01	24.0
100	QPSK	135	69	23.33	23.82	23.62	25.0
100	QPSK	135	138	22.60	23.03	22.81	24.0
100	QPSK	270	0	22.67	23.09	22.86	
100	16QAM	1	1	22.75	23.17	22.99	24.0
100	64QAM	1	1	21.31	21.73	21.53	22.5
100	256QAM	1	1	19.23	19.70	19.45	20.5
Channel				509004	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2545.02	2592.99	2644.98	
90	PI/2 BPSK	1	1	23.55	24.01	23.88	25.0
Channel				508002	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2540.01	2592.99	2649.99	
80	PI/2 BPSK	1	1	23.59	23.97	23.94	25.0
Channel				507000	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2535	2592.99	2655	
70	PI/2 BPSK	1	1	23.60	24.02	23.88	25.0
Channel				506004	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2530.02	2592.99	2659.98	
60	PI/2 BPSK	1	1	23.60	24.03	23.93	25.0
Channel				505002	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2525.01	2592.99	2664.99	
50	PI/2 BPSK	1	1	23.53	23.98	23.91	25.0
Channel				504000	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2520	2592.99	2670	
40	PI/2 BPSK	1	1	23.56	23.98	23.86	25.0
Channel				503004	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2515.02	2592.99	2674.98	
30	PI/2 BPSK	1	1	23.62	24.08	23.91	25.0
Channel				502500	518598	535500	Tune-up limit (dBm)
Frequency (MHz)				2512.5	2592.99	2677.50	
25	PI/2 BPSK	1	1	23.52	24.02	23.82	25.0
Channel				502002	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2510.01	2592.99	2679.99	
20	PI/2 BPSK	1	1	23.55	24.02	23.93	25.0
Channel				501504	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2507.52	2592.99	2682.48	
15	PI/2 BPSK	1	1	23.54	24.07	23.86	25.0
Channel				501000	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2505	2592.99	2685	
10	PI/2 BPSK	1	1	23.61	24.02	23.83	25.0



<FR1 n41_IC_Ant MIMO2_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				510000	518598	528000	25.0
Frequency (MHz)				2550	2592.99	2640	
100	PI/2 BPSK	1	1	24.09	24.20	23.83	
100	PI/2 BPSK	1	137	23.72	23.76	23.39	24.5
100	PI/2 BPSK	1	271	23.30	23.41	23.05	
100	PI/2 BPSK	135	0	23.86	23.95	23.55	
100	PI/2 BPSK	135	69	23.60	23.70	23.31	24.5
100	PI/2 BPSK	135	138	23.37	23.47	23.09	
100	PI/2 BPSK	270	0	23.66	23.75	23.40	
100	QPSK	1	1	24.07	24.18	23.82	25.0
100	QPSK	1	137	23.59	23.70	23.33	
100	QPSK	1	271	23.24	23.39	23.08	
100	QPSK	135	0	23.77	23.92	23.54	24.0
100	QPSK	135	69	23.62	23.63	23.27	
100	QPSK	135	138	23.23	23.43	23.12	
100	QPSK	270	0	23.64	23.75	23.44	24.0
100	16QAM	1	1	22.98	23.12	22.76	
100	64QAM	1	1	22.08	22.13	21.76	
100	256QAM	1	1	20.08	20.15	19.81	20.5
Channel				509004	518598	528996	25.0
Frequency (MHz)				2545.02	2592.99	2644.98	
90	PI/2 BPSK	1	1	23.95	24.05	23.76	
Channel				508002	518598	529998	25.0
Frequency (MHz)				2540.01	2592.99	2649.99	
80	PI/2 BPSK	1	1	23.97	24.06	23.78	
Channel				507000	518598	531000	25.0
Frequency (MHz)				2535	2592.99	2655	
70	PI/2 BPSK	1	1	23.95	24.09	23.77	
Channel				506004	518598	531996	25.0
Frequency (MHz)				2530.02	2592.99	2659.98	
60	PI/2 BPSK	1	1	23.98	24.06	23.68	
Channel				505002	518598	532998	25.0
Frequency (MHz)				2525.01	2592.99	2664.99	
50	PI/2 BPSK	1	1	23.98	24.12	23.69	
Channel				504000	518598	534000	25.0
Frequency (MHz)				2520	2592.99	2670	
40	PI/2 BPSK	1	1	24.03	24.07	23.77	
Channel				503004	518598	534996	25.0
Frequency (MHz)				2515.02	2592.99	2674.98	
30	PI/2 BPSK	1	1	23.94	24.12	23.69	
Channel				502500	518598	535500	25.0
Frequency (MHz)				2512.5	2592.99	2677.50	
25	PI/2 BPSK	1	1	24.02	24.08	23.75	
Channel				502002	518598	535998	25.0
Frequency (MHz)				2510.01	2592.99	2679.99	
20	PI/2 BPSK	1	1	24.03	24.05	23.78	
Channel				501504	518598	536496	25.0
Frequency (MHz)				2507.52	2592.99	2682.48	
15	PI/2 BPSK	1	1	24.01	24.10	23.68	
Channel				501000	518598	537000	25.0
Frequency (MHz)				2505	2592.99	2685	
10	PI/2 BPSK	1	1	24.03	24.05	23.72	

<FR1 n41_IC_HPUE_Ant Main_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				510000	518598	528000	
Frequency (MHz)				2550	2592.99	2640	
100	PI/2 BPSK	1	1	25.71	26.17	26.01	27.0
100	PI/2 BPSK	1	137	25.37	25.93	25.69	
100	PI/2 BPSK	1	271	25.50	25.96	25.76	
100	PI/2 BPSK	135	0	25.42	25.86	25.64	26.5
100	PI/2 BPSK	135	69	25.39	25.95	25.74	27.0
100	PI/2 BPSK	135	138	25.39	25.92	25.70	26.5
100	PI/2 BPSK	270	0	25.44	25.96	25.73	
100	QPSK	1	1	25.63	26.12	25.93	27.0
100	QPSK	1	137	25.37	25.88	25.66	
100	QPSK	1	271	25.41	25.94	25.76	
100	QPSK	135	0	25.38	25.91	25.67	26.0
100	QPSK	135	69	25.27	25.79	25.61	27.0
100	QPSK	135	138	25.33	25.87	25.66	26.0
100	QPSK	270	0	25.33	25.88	25.66	
100	16QAM	1	1	25.39	25.94	25.75	26.0
100	64QAM	1	1	23.92	24.48	24.26	24.5
100	256QAM	1	1	21.97	22.45	22.21	22.5
Channel				509004	518598	528996	
Frequency (MHz)				2545.02	2592.99	2644.98	
90	PI/2 BPSK	1	1	25.63	26.06	25.94	27.0
Channel				508002	518598	529998	
Frequency (MHz)				2540.01	2592.99	2649.99	
80	PI/2 BPSK	1	1	25.63	26.07	25.93	27.0
Channel				507000	518598	531000	
Frequency (MHz)				2535	2592.99	2655	
70	PI/2 BPSK	1	1	25.66	26.04	25.93	27.0
Channel				506004	518598	531996	
Frequency (MHz)				2530.02	2592.99	2659.98	
60	PI/2 BPSK	1	1	25.61	26.04	25.98	27.0
Channel				505002	518598	532998	
Frequency (MHz)				2525.01	2592.99	2664.99	
50	PI/2 BPSK	1	1	25.58	26.13	25.88	27.0
Channel				504000	518598	534000	
Frequency (MHz)				2520	2592.99	2670	
40	PI/2 BPSK	1	1	25.65	26.04	25.94	27.0
Channel				503004	518598	534996	
Frequency (MHz)				2515.02	2592.99	2674.98	
30	PI/2 BPSK	1	1	25.62	26.04	25.91	27.0
Channel				502500	518598	535500	
Frequency (MHz)				2512.5	2592.99	2677.50	
25	PI/2 BPSK	1	1	25.67	26.06	25.95	27.0
Channel				502002	518598	535998	
Frequency (MHz)				2510.01	2592.99	2679.99	
20	PI/2 BPSK	1	1	25.67	26.06	25.97	27.0
Channel				501504	518598	536496	
Frequency (MHz)				2507.52	2592.99	2682.48	
15	PI/2 BPSK	1	1	25.59	26.09	25.95	27.0
Channel				501000	518598	537000	
Frequency (MHz)				2505	2592.99	2685	
10	PI/2 BPSK	1	1	25.59	26.13	25.90	27.0



<FR1 n41_IC_HPUE_Ant MIMO2_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				510000	518598	528000	27.0
Frequency (MHz)				2550	2592.99	2640	
100	PI/2 BPSK	1	1	25.30	26.80	26.72	
100	PI/2 BPSK	1	137	26.36	25.60	26.60	26.5
100	PI/2 BPSK	1	271	25.61	25.16	25.76	
100	PI/2 BPSK	135	0	25.59	25.66	24.78	
100	PI/2 BPSK	135	69	26.04	25.71	26.36	27.0
100	PI/2 BPSK	135	138	25.48	24.94	24.80	26.5
100	PI/2 BPSK	270	0	26.26	25.82	25.16	
100	QPSK	1	1	25.01	26.59	25.72	
100	QPSK	1	137	26.26	25.37	25.01	27.0
100	QPSK	1	271	25.37	25.09	25.60	
100	QPSK	135	0	25.30	25.37	24.24	
100	QPSK	135	69	26.22	25.70	26.60	27.0
100	QPSK	135	138	25.32	24.20	24.26	26.0
100	QPSK	270	0	25.65	25.08	24.85	
100	16QAM	1	1	24.12	25.78	25.93	
100	64QAM	1	1	23.45	24.41	24.47	24.5
100	256QAM	1	1	22.36	22.44	22.43	22.5
Channel				509004	518598	528996	27.0
Frequency (MHz)				2545.02	2592.99	2644.98	
90	PI/2 BPSK	1	1	25.21	26.68	26.62	
Channel				508002	518598	529998	27.0
Frequency (MHz)				2540.01	2592.99	2649.99	
80	PI/2 BPSK	1	1	25.16	26.74	26.65	
Channel				507000	518598	531000	27.0
Frequency (MHz)				2535	2592.99	2655	
70	PI/2 BPSK	1	1	25.19	26.68	26.65	
Channel				506004	518598	531996	27.0
Frequency (MHz)				2530.02	2592.99	2659.98	
60	PI/2 BPSK	1	1	25.19	26.75	26.62	
Channel				505002	518598	532998	27.0
Frequency (MHz)				2525.01	2592.99	2664.99	
50	PI/2 BPSK	1	1	25.15	26.75	26.64	
Channel				504000	518598	534000	27.0
Frequency (MHz)				2520	2592.99	2670	
40	PI/2 BPSK	1	1	25.18	26.71	26.57	
Channel				503004	518598	534996	27.0
Frequency (MHz)				2515.02	2592.99	2674.98	
30	PI/2 BPSK	1	1	25.15	26.67	26.67	
Channel				502500	518598	535500	27.0
Frequency (MHz)				2512.5	2592.99	2677.50	
25	PI/2 BPSK	1	1	25.21	26.66	26.59	
Channel				502002	518598	535998	27.0
Frequency (MHz)				2510.01	2592.99	2679.99	
20	PI/2 BPSK	1	1	25.19	26.67	26.62	
Channel				501504	518598	536496	27.0
Frequency (MHz)				2507.52	2592.99	2682.48	
15	PI/2 BPSK	1	1	25.18	26.68	26.64	
Channel				501000	518598	537000	27.0
Frequency (MHz)				2505	2592.99	2685	
10	PI/2 BPSK	1	1	25.24	26.74	26.58	



<FR1 n48_Ant Main_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				638000	641666	645332	
Frequency (MHz)				3570	3624.99	3679.98	
40	PI/2 BPSK	1	1	20.32	20.44	20.35	21.8
40	PI/2 BPSK	1	53	20.32	20.40	20.33	
40	PI/2 BPSK	1	104	20.45	20.53	20.48	
40	PI/2 BPSK	50	0	20.37	20.45	20.40	21.3
40	PI/2 BPSK	50	28	20.38	20.47	20.38	21.8
40	PI/2 BPSK	50	56	20.32	20.43	20.33	21.3
40	PI/2 BPSK	100	0	20.30	20.40	20.32	
40	QPSK	1	1	20.24	20.37	20.28	21.8
40	QPSK	1	53	20.20	20.32	20.27	
40	QPSK	1	104	20.38	20.46	20.41	
40	QPSK	50	0	20.34	20.44	20.36	20.8
40	QPSK	50	28	20.27	20.39	20.33	21.8
40	QPSK	50	56	20.31	20.41	20.32	20.8
40	QPSK	100	0	20.29	20.37	20.27	
40	16QAM	1	1	20.17	20.25	20.15	20.8
40	64QAM	1	1	20.22	20.32	20.27	20.8
40	256QAM	1	1	18.72	18.85	18.80	19.3
Channel				637668	641666	645666	Tune-up limit (dBm)
Frequency (MHz)				3565.02	3624.99	3684.99	
30	PI/2 BPSK	1	1	20.24	20.31	20.32	21.8
Channel				637334	641666	646000	Tune-up limit (dBm)
Frequency (MHz)				3560.01	3624.99	3690	
20	PI/2 BPSK	1	1	20.26	20.40	20.28	21.8
Channel				637168	641666	646166	Tune-up limit (dBm)
Frequency (MHz)				3557.52	3624.99	3692.49	
15	PI/2 BPSK	1	1	20.27	20.34	20.24	21.8
Channel				637000	641666	646332	Tune-up limit (dBm)
Frequency (MHz)				3555	3624.99	3694.98	
10	PI/2 BPSK	1	1	20.22	20.39	20.24	21.8



<FR1 n48_Ant MIMO2_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				638000	641666	645332	21.8
Frequency (MHz)				3570	3624.99	3679.98	
40	PI/2 BPSK	1	1	21.42	21.22	21.27	
40	PI/2 BPSK	1	53	21.30	21.16	21.25	21.8
40	PI/2 BPSK	1	104	21.36	21.18	21.23	
40	PI/2 BPSK	50	0	21.27	21.15	21.24	
40	PI/2 BPSK	50	28	21.33	21.21	21.25	21.8
40	PI/2 BPSK	50	56	21.30	21.18	21.22	21.8
40	PI/2 BPSK	100	0	21.37	21.17	21.28	
40	QPSK	1	1	21.32	21.18	21.25	
40	QPSK	1	53	21.27	21.16	21.24	21.8
40	QPSK	1	104	21.32	21.17	21.23	
40	QPSK	50	0	21.32	21.12	21.21	
40	QPSK	50	28	21.34	21.17	21.25	21.8
40	QPSK	50	56	21.31	21.16	21.20	21.8
40	QPSK	100	0	21.31	21.17	21.26	
40	16QAM	1	1	21.26	21.14	21.21	
40	64QAM	1	1	21.20	21.10	21.24	21.8
40	256QAM	1	1	20.84	20.73	20.88	21.3
Channel				637668	641666	645666	Tune-up limit (dBm)
Frequency (MHz)				3565.02	3624.99	3684.99	
30	PI/2 BPSK	1	1	21.36	21.17	21.18	21.8
Channel				637334	641666	646000	Tune-up limit (dBm)
Frequency (MHz)				3560.01	3624.99	3690	
20	PI/2 BPSK	1	1	21.27	21.14	21.21	21.8
Channel				637168	641666	646166	Tune-up limit (dBm)
Frequency (MHz)				3557.52	3624.99	3692.49	
15	PI/2 BPSK	1	1	21.27	21.07	21.14	21.8
Channel				637000	641666	646332	Tune-up limit (dBm)
Frequency (MHz)				3555	3624.99	3694.98	
10	PI/2 BPSK	1	1	21.27	21.08	21.14	21.8

<FR1 n77_Ant Main_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	24.17	24.10	24.01	25.1
100	PI/2 BPSK	1	137	24.09	24.02	23.92	
100	PI/2 BPSK	1	271	24.25	24.17	24.12	
100	PI/2 BPSK	135	0	23.51	23.48	23.43	24.6
100	PI/2 BPSK	135	69	24.01	23.97	23.90	25.1
100	PI/2 BPSK	135	138	23.61	23.56	23.48	24.6
100	PI/2 BPSK	270	0	23.57	23.50	23.42	
100	QPSK	1	1	24.11	24.07	23.98	25.1
100	QPSK	1	137	23.94	23.91	23.81	
100	QPSK	1	271	24.21	24.15	24.07	
100	QPSK	135	0	23.05	22.97	22.91	24.1
100	QPSK	135	69	23.98	23.91	23.83	25.1
100	QPSK	135	138	23.05	22.98	22.89	24.1
100	QPSK	270	0	23.04	22.99	22.94	
100	16QAM	1	1	23.04	23.01	22.96	24.1
100	64QAM	1	1	21.56	21.48	21.40	22.6
100	256QAM	1	1	19.57	19.49	19.39	20.6
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	24.11	24.07	23.93	25.1
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	24.14	24.06	23.92	25.1
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	24.12	23.99	23.88	25.1
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	24.08	24.03	23.96	25.1
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	24.07	23.97	23.91	25.1
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	24.09	24.02	23.89	25.1
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	24.09	24.06	23.93	25.1
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	24.10	24.03	23.91	25.1
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	24.13	23.98	23.98	25.1
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	24.14	24.00	23.96	25.1
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	24.12	24.01	23.98	25.1



<FR1 n77_Ant MIMO2_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	25.1
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	23.78	24.43	23.90	
100	PI/2 BPSK	1	137	23.98	24.38	23.85	24.6
100	PI/2 BPSK	1	271	24.08	24.45	23.92	
100	PI/2 BPSK	135	0	23.41	23.82	23.29	
100	PI/2 BPSK	135	69	23.98	24.37	23.82	25.1
100	PI/2 BPSK	135	138	23.48	23.89	23.31	
100	PI/2 BPSK	270	0	23.50	23.92	23.36	
100	QPSK	1	1	24.00	24.40	23.82	24.1
100	QPSK	1	137	23.95	24.32	23.75	
100	QPSK	1	271	24.05	24.42	23.88	
100	QPSK	135	0	22.92	23.32	22.74	25.1
100	QPSK	135	69	23.90	24.30	23.75	
100	QPSK	135	138	22.97	23.35	22.81	
100	QPSK	270	0	22.88	23.30	22.72	24.1
100	16QAM	1	1	22.96	23.36	22.80	
100	64QAM	1	1	21.42	21.84	21.27	
100	256QAM	1	1	19.45	19.84	19.30	20.6
Channel				649668	656000	662332	25.1
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	23.67	24.32	23.83	
Channel				649334	656000	662666	25.1
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	23.72	24.28	23.76	
Channel				649000	656000	663000	25.1
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	23.67	24.29	23.81	
Channel				648668	656000	663332	25.1
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	23.65	24.38	23.77	
Channel				648334	656000	663666	25.1
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	23.66	24.28	23.75	
Channel				648000	656000	664000	25.1
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	23.67	24.34	23.75	
Channel				647668	656000	664332	25.1
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	23.64	24.29	23.76	
Channel				647500	656000	664500	25.1
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	23.65	24.32	23.84	
Channel				647334	656000	664666	25.1
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	23.69	24.30	23.85	
Channel				647168	656000	664832	25.1
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	23.73	24.37	23.80	
Channel				647000	656000	665000	25.1
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	23.68	24.32	23.83	



<FR1 n77_HPUE_Ant Main_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	26.0
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	24.78	24.86	24.76	
100	PI/2 BPSK	1	137	24.76	24.83	24.75	25.5
100	PI/2 BPSK	1	271	24.95	24.98	24.93	
100	PI/2 BPSK	135	0	24.69	24.72	24.66	
100	PI/2 BPSK	135	69	24.80	24.83	24.73	25.5
100	PI/2 BPSK	135	138	24.76	24.81	24.72	
100	PI/2 BPSK	270	0	24.80	24.84	24.77	
100	QPSK	1	1	24.77	24.85	24.80	26.0
100	QPSK	1	137	24.68	24.75	24.67	
100	QPSK	1	271	24.88	24.93	24.86	
100	QPSK	135	0	24.71	24.76	24.67	25.0
100	QPSK	135	69	24.68	24.73	24.66	26.0
100	QPSK	135	138	24.75	24.80	24.72	25.0
100	QPSK	270	0	24.78	24.82	24.76	
100	16QAM	1	1	24.69	24.74	24.64	
100	64QAM	1	1	24.20	24.26	24.21	24.5
100	256QAM	1	1	22.16	22.23	22.18	22.5
Channel				649668	656000	662332	26.0
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	24.64	24.76	24.65	
Channel				649334	656000	662666	26.0
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	24.71	24.81	24.66	
Channel				649000	656000	663000	26.0
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	24.63	24.77	24.69	
Channel				648668	656000	663332	26.0
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	24.70	24.79	24.61	
Channel				648334	656000	663666	26.0
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	24.71	24.80	24.72	
Channel				648000	656000	664000	26.0
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	24.74	24.79	24.60	
Channel				647668	656000	664332	26.0
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	24.63	24.70	24.65	
Channel				647500	656000	664500	26.0
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	24.65	24.83	24.60	
Channel				647334	656000	664666	26.0
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	24.70	24.77	24.63	
Channel				647168	656000	664832	26.0
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	24.64	24.77	24.72	
Channel				647000	656000	665000	26.0
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	24.62	24.70	24.68	



<FR1 n77_HPUE_Ant MIMO2_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	26.0
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	24.77	25.23	24.31	
100	PI/2 BPSK	1	137	24.69	25.14	24.27	25.5
100	PI/2 BPSK	1	271	24.83	25.25	24.38	
100	PI/2 BPSK	135	0	24.73	25.15	24.26	
100	PI/2 BPSK	135	69	24.66	25.10	24.22	26.0
100	PI/2 BPSK	135	138	24.69	25.12	24.24	
100	PI/2 BPSK	270	0	24.72	25.14	24.22	
100	QPSK	1	1	24.76	25.21	24.33	25.0
100	QPSK	1	137	24.68	25.11	24.22	
100	QPSK	1	271	24.77	25.19	24.28	
100	QPSK	135	0	24.70	24.93	24.26	26.0
100	QPSK	135	69	24.59	25.01	24.13	
100	QPSK	135	138	24.46	24.93	24.02	
100	QPSK	270	0	24.65	24.91	24.23	25.0
100	16QAM	1	1	24.27	24.69	23.79	
100	64QAM	1	1	22.86	23.30	22.41	
100	256QAM	1	1	21.43	21.45	20.97	21.5
Channel				649668	656000	662332	26.0
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	24.71	25.14	24.25	
Channel				649334	656000	662666	26.0
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	24.64	25.17	24.24	
Channel				649000	656000	663000	26.0
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	24.63	25.08	24.19	
Channel				648668	656000	663332	26.0
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	24.64	25.09	24.21	
Channel				648334	656000	663666	26.0
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	24.70	25.18	24.20	
Channel				648000	656000	664000	26.0
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	24.62	25.10	24.17	
Channel				647668	656000	664332	26.0
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	24.67	25.10	24.16	
Channel				647500	656000	664500	26.0
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	24.66	25.12	24.18	
Channel				647334	656000	664666	26.0
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	24.71	25.11	24.18	
Channel				647168	656000	664832	26.0
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	24.71	25.11	24.26	
Channel				647000	656000	665000	26.0
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	24.70	25.10	24.19	



<FR1 n77_Ant Main_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		23.66		25.1
100	PI/2 BPSK	1	137		23.68		
100	PI/2 BPSK	1	271		23.83		
100	PI/2 BPSK	135	0		23.10		24.6
100	PI/2 BPSK	135	69		23.58		25.1
100	PI/2 BPSK	135	138		23.21		24.6
100	PI/2 BPSK	270	0		23.14		
100	QPSK	1	1		23.72		25.1
100	QPSK	1	137		23.53		
100	QPSK	1	271		23.79		
100	QPSK	135	0		22.60		24.1
100	QPSK	135	69		23.57		25.1
100	QPSK	135	138		22.61		24.1
100	QPSK	270	0		22.61		
100	16QAM	1	1		22.63		24.1
100	64QAM	1	1		21.10		22.6
100	256QAM	1	1		19.13		20.6
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	23.48	23.55	23.50	25.1
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	23.38	23.45	23.41	25.1
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	23.40	23.48	23.38	25.1
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	23.37	23.44	23.45	25.1
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	23.40	23.51	23.39	25.1
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	23.43	23.48	23.38	25.1
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	23.44	23.48	23.37	25.1
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	23.45	23.52	23.46	25.1
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	23.41	23.49	23.44	25.1
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	23.37	23.47	23.47	25.1
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	23.39	23.52	23.37	25.1



<FR1 n77_Ant MIMO2_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		25.1
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		24.22		
100	PI/2 BPSK	1	137		24.21		24.6
100	PI/2 BPSK	1	271		24.29		
100	PI/2 BPSK	135	0		23.63		
100	PI/2 BPSK	135	69		24.21		24.6
100	PI/2 BPSK	135	138		23.68		
100	PI/2 BPSK	270	0		23.74		
100	QPSK	1	1		24.23		25.1
100	QPSK	1	137		24.12		
100	QPSK	1	271		24.23		
100	QPSK	135	0		23.14		24.1
100	QPSK	135	69		24.14		
100	QPSK	135	138		23.15		
100	QPSK	270	0		23.13		24.1
100	16QAM	1	1		23.18		
100	64QAM	1	1		21.66		
100	256QAM	1	1		19.65		20.6
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	23.56	24.11	23.73	25.1
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	23.55	24.09	23.76	25.1
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	23.58	24.13	23.78	25.1
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	23.47	24.06	23.66	25.1
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	23.44	23.97	23.62	25.1
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	23.56	24.15	23.74	25.1
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	23.41	24.02	23.64	25.1
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	23.55	24.08	23.73	25.1
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	23.45	23.96	23.64	25.1
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	23.52	24.17	23.75	25.1
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	23.42	23.98	23.68	25.1



<FR1 n77_HPUE_Ant Main_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		24.53		26.0
100	PI/2 BPSK	1	137		24.50		
100	PI/2 BPSK	1	271		24.66		
100	PI/2 BPSK	135	0		24.36		25.5
100	PI/2 BPSK	135	69		24.49		26.0
100	PI/2 BPSK	135	138		24.45		25.5
100	PI/2 BPSK	270	0		24.48		
100	QPSK	1	1		24.48		26.0
100	QPSK	1	137		24.37		
100	QPSK	1	271		24.57		
100	QPSK	135	0		24.40		25.0
100	QPSK	135	69		24.36		26.0
100	QPSK	135	138		24.46		25.0
100	QPSK	270	0		24.45		
100	16QAM	1	1		24.41		25.0
100	64QAM	1	1		23.93		24.5
100	256QAM	1	1		21.86		22.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	24.28	24.46	24.37	26.0
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	24.17	24.38	24.30	26.0
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	24.16	24.35	24.30	26.0
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	24.15	24.42	24.31	26.0
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	24.25	24.41	24.38	26.0
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	24.25	24.38	24.24	26.0
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	24.16	24.40	24.33	26.0
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	24.33	24.44	24.39	26.0
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	24.15	24.41	24.34	26.0
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	24.23	24.43	24.39	26.0
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	24.22	24.34	24.32	26.0



<FR1 n77_HPUE_Ant MIMO2_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		25.03		
100	PI/2 BPSK	1	137		24.90		26.0
100	PI/2 BPSK	1	271		25.05		
100	PI/2 BPSK	135	0		24.92		
100	PI/2 BPSK	135	69		24.89		25.5
100	PI/2 BPSK	135	138		24.91		26.0
100	PI/2 BPSK	270	0		24.90		
100	QPSK	1	1		24.98		
100	QPSK	1	137		24.91		25.0
100	QPSK	1	271		24.94		
100	QPSK	135	0		24.91		
100	QPSK	135	69		24.81		25.0
100	QPSK	135	138		24.71		26.0
100	QPSK	270	0		24.91		
100	16QAM	1	1		24.44		
100	64QAM	1	1		23.10		25.0
100	256QAM	1	1		21.43		23.5
Channel				633000	633332	633666	21.5
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	24.52	24.82	24.04	
Channel				632668	633332	634000	26.0
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	24.47	24.87	24.08	
Channel				632334	633332	634332	26.0
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	24.52	24.86	24.06	
Channel				632000	633332	634666	26.0
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	24.56	24.96	24.10	
Channel				631668	633332	635000	26.0
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	24.56	24.77	24.06	
Channel				631334	633332	635332	26.0
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	24.60	24.96	24.20	
Channel				631000	633332	635666	26.0
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	24.51	24.81	24.06	
Channel				630834	633332	635832	26.0
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	24.64	24.90	24.13	
Channel				630668	633332	636000	26.0
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	24.59	24.91	24.10	
Channel				630500	633332	636166	26.0
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	24.47	24.86	24.08	
Channel				630334	633332	636332	26.0
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	24.63	24.91	24.17	



<FR1 n78_Ant Main_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		23.98		25.1
100	PI/2 BPSK	1	137		24.05		
100	PI/2 BPSK	1	271		24.29		
100	PI/2 BPSK	135	0		23.44		24.6
100	PI/2 BPSK	135	69		24.07		25.1
100	PI/2 BPSK	135	138		23.60		24.6
100	PI/2 BPSK	270	0		23.54		
100	QPSK	1	1		23.95		25.1
100	QPSK	1	137		23.99		
100	QPSK	1	271		24.22		
100	QPSK	135	0		22.90		24.1
100	QPSK	135	69		23.94		25.1
100	QPSK	135	138		23.11		24.1
100	QPSK	270	0		23.02		
100	16QAM	1	1		22.82		24.1
100	64QAM	1	1		21.40		22.6
100	256QAM	1	1		19.37		20.6
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	23.37	23.91	23.48	25.1
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	23.35	23.87	23.49	25.1
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	23.28	23.83	23.41	25.1
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	23.32	23.86	23.49	25.1
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	23.31	23.87	23.45	25.1
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	23.28	23.84	23.43	25.1
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	23.32	23.94	23.53	25.1
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	23.25	23.83	23.40	25.1
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	23.31	23.94	23.53	25.1
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	23.32	23.85	23.40	25.1
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	23.24	23.78	23.43	25.1



<FR1 n78_Ant MIMO2_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		23.90		
100	PI/2 BPSK	1	137		23.93		25.1
100	PI/2 BPSK	1	271		24.04		
100	PI/2 BPSK	135	0		23.35		24.6
100	PI/2 BPSK	135	69		23.92		25.1
100	PI/2 BPSK	135	138		23.40		24.6
100	PI/2 BPSK	270	0		23.44		
100	QPSK	1	1		23.95		
100	QPSK	1	137		23.84		25.1
100	QPSK	1	271		23.92		
100	QPSK	135	0		22.86		24.1
100	QPSK	135	69		23.83		25.1
100	QPSK	135	138		22.86		24.1
100	QPSK	270	0		22.84		
100	16QAM	1	1		22.88		24.1
100	64QAM	1	1		21.39		22.6
100	256QAM	1	1		19.36		20.6
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	23.33	23.86	23.31	25.1
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	23.25	23.81	23.34	25.1
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	23.33	23.82	23.39	25.1
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	23.36	23.85	23.38	25.1
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	23.30	23.87	23.33	25.1
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	23.30	23.81	23.40	25.1
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	23.31	23.75	23.30	25.1
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	23.29	23.86	23.38	25.1
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	23.34	23.75	23.39	25.1
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	23.25	23.83	23.30	25.1
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	23.29	23.72	23.19	25.1



<FR1 n78_HPUE_Ant Main_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		24.80		26.0
100	PI/2 BPSK	1	137		24.87		
100	PI/2 BPSK	1	271		25.13		
100	PI/2 BPSK	135	0		24.76		25.5
100	PI/2 BPSK	135	69		24.98		26.0
100	PI/2 BPSK	135	138		24.87		25.5
100	PI/2 BPSK	270	0		24.92		
100	QPSK	1	1		24.78		26.0
100	QPSK	1	137		24.76		
100	QPSK	1	271		25.10		
100	QPSK	135	0		24.74		25.0
100	QPSK	135	69		24.80		26.0
100	QPSK	135	138		24.94		25.0
100	QPSK	270	0		24.90		
100	16QAM	1	1		24.70		25.0
100	64QAM	1	1		24.16		24.5
100	256QAM	1	1		22.23		22.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	24.65	24.69	24.61	26.0
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	24.73	24.77	24.69	26.0
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	24.55	24.57	24.58	26.0
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	24.70	24.75	24.69	26.0
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	24.55	24.65	24.58	26.0
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	24.62	24.64	24.56	26.0
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	24.73	24.70	24.63	26.0
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	24.54	24.59	24.55	26.0
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	24.69	24.70	24.67	26.0
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	24.59	24.64	24.50	26.0
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	24.69	24.68	24.67	26.0



FCC SAR TEST REPORT

Report No. : FA521318-03

<FR1 n78_HPUE_Ant MIMO2_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		24.93		
100	PI/2 BPSK	1	137		24.83		26.0
100	PI/2 BPSK	1	271		25.01		
100	PI/2 BPSK	135	0		24.81		
100	PI/2 BPSK	135	69		24.78		25.5
100	PI/2 BPSK	135	138		24.79		26.0
100	PI/2 BPSK	270	0		24.77		
100	QPSK	1	1		24.91		
100	QPSK	1	137		24.75		25.0
100	QPSK	1	271		24.85		
100	QPSK	135	0		24.75		
100	QPSK	135	69		24.65		26.0
100	QPSK	135	138		24.61		25.0
100	QPSK	270	0		24.77		
100	16QAM	1	1		24.39		
100	64QAM	1	1		22.96		23.5
100	256QAM	1	1		21.46		21.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	24.76	24.86	24.70	
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	24.61	24.83	24.67	
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	24.73	24.83	24.58	
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	24.73	24.82	24.55	
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	24.70	24.79	24.68	
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	24.61	24.78	24.67	
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	24.72	24.75	24.58	
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	24.72	24.89	24.68	
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	24.68	24.73	24.55	
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	24.69	24.79	24.63	
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	24.69	24.71	24.65	



<FR1 n78_Ant Main_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		23.83		25.1
100	PI/2 BPSK	1	137		23.78		
100	PI/2 BPSK	1	271		23.94		
100	PI/2 BPSK	135	0		23.22		24.6
100	PI/2 BPSK	135	69		23.69		25.1
100	PI/2 BPSK	135	138		23.30		24.6
100	PI/2 BPSK	270	0		23.25		
100	QPSK	1	1		23.80		25.1
100	QPSK	1	137		23.68		
100	QPSK	1	271		23.89		
100	QPSK	135	0		22.74		24.1
100	QPSK	135	69		23.67		25.1
100	QPSK	135	138		22.70		24.1
100	QPSK	270	0		22.75		
100	16QAM	1	1		22.77		24.1
100	64QAM	1	1		21.20		22.6
100	256QAM	1	1		19.25		20.6
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	23.75	23.78	23.65	25.1
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	23.69	23.72	23.59	25.1
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	23.68	23.73	23.52	25.1
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	23.68	23.80	23.61	25.1
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	23.72	23.75	23.54	25.1
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	23.73	23.73	23.61	25.1
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	23.65	23.68	23.56	25.1
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	23.70	23.75	23.58	25.1
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	23.66	23.68	23.50	25.1
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	23.72	23.78	23.61	25.1
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	23.65	23.67	23.55	25.1



<FR1 n78_Ant MIMO2_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		23.66		25.1
100	PI/2 BPSK	1	137		23.66		
100	PI/2 BPSK	1	271		23.82		
100	PI/2 BPSK	135	0		23.14		24.6
100	PI/2 BPSK	135	69		23.70		25.1
100	PI/2 BPSK	135	138		23.15		24.6
100	PI/2 BPSK	270	0		23.24		
100	QPSK	1	1		23.73		25.1
100	QPSK	1	137		23.63		
100	QPSK	1	271		23.70		
100	QPSK	135	0		22.63		24.1
100	QPSK	135	69		23.59		25.1
100	QPSK	135	138		22.68		24.1
100	QPSK	270	0		22.62		
100	16QAM	1	1		22.70		24.1
100	64QAM	1	1		21.17		22.6
100	256QAM	1	1		19.15		20.6
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	23.14	23.59	23.44	25.1
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	23.11	23.51	23.51	25.1
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	23.13	23.51	23.34	25.1
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	23.16	23.52	23.49	25.1
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	23.13	23.46	23.36	25.1
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	23.18	23.61	23.51	25.1
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	23.14	23.48	23.31	25.1
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	23.10	23.55	23.50	25.1
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	23.10	23.44	23.31	25.1
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	23.19	23.54	23.50	25.1
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	23.10	23.50	23.29	25.1



<FR1 n78_HPUE_Ant Main_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		24.46		26.0
100	PI/2 BPSK	1	137		24.39		
100	PI/2 BPSK	1	271		24.58		
100	PI/2 BPSK	135	0		24.30		25.5
100	PI/2 BPSK	135	69		24.43		26.0
100	PI/2 BPSK	135	138		24.40		25.5
100	PI/2 BPSK	270	0		24.40		
100	QPSK	1	1		24.43		26.0
100	QPSK	1	137		24.32		
100	QPSK	1	271		24.50		
100	QPSK	135	0		24.31		25.0
100	QPSK	135	69		24.31		26.0
100	QPSK	135	138		24.40		25.0
100	QPSK	270	0		24.42		
100	16QAM	1	1		24.29		25.0
100	64QAM	1	1		23.86		24.5
100	256QAM	1	1		21.78		22.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	24.32	24.33	24.22	26.0
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	24.19	24.23	24.18	26.0
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	24.28	24.24	24.15	26.0
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	24.35	24.40	24.22	26.0
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	24.26	24.23	24.10	26.0
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	24.29	24.38	24.27	26.0
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	24.22	24.27	24.16	26.0
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	24.19	24.25	24.14	26.0
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	24.29	24.27	24.10	26.0
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	24.28	24.35	24.22	26.0
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	24.27	24.25	24.12	26.0



<FR1 n78_HPUE_Ant MIMO2_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		24.76		
100	PI/2 BPSK	1	137		24.62		26.0
100	PI/2 BPSK	1	271		24.82		
100	PI/2 BPSK	135	0		24.61		
100	PI/2 BPSK	135	69		24.61		25.5
100	PI/2 BPSK	135	138		24.57		26.0
100	PI/2 BPSK	270	0		24.61		
100	QPSK	1	1		24.74		
100	QPSK	1	137		24.60		26.0
100	QPSK	1	271		24.66		
100	QPSK	135	0		24.60		
100	QPSK	135	69		24.44		25.0
100	QPSK	135	138		24.43		26.0
100	QPSK	270	0		24.56		
100	16QAM	1	1		24.17		
100	64QAM	1	1		22.75		25.0
100	256QAM	1	1		21.36		23.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	24.49	24.68	24.48	
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	24.59	24.67	24.51	
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	24.53	24.71	24.54	
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	24.53	24.71	24.53	
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	24.49	24.69	24.54	
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	24.53	24.64	24.52	
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	24.57	24.66	24.44	
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	24.43	24.57	24.42	
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	24.49	24.72	24.46	
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	24.52	24.67	24.44	
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	24.55	24.64	24.54	



<FR1 n2_Ant Main_Sensor ON>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376000	378000	
Frequency (MHz)				1870	1880	1890	
40	PI/2 BPSK	1	1	17.14	17.15	17.12	18.0
40	PI/2 BPSK	1	108	17.17	17.18	17.16	
40	PI/2 BPSK	1	214	16.99	17.10	17.08	
40	PI/2 BPSK	108	0	16.95	17.04	17.02	18.0
40	PI/2 BPSK	108	54	17.13	17.16	17.06	18.0
40	PI/2 BPSK	108	108	17.01	17.10	17.03	18.0
40	PI/2 BPSK	216	0	17.06	17.07	16.97	
40	QPSK	1	1	17.02	17.09	16.98	18.0
40	QPSK	1	108	16.99	17.08	17.02	
40	QPSK	1	214	16.98	17.06	16.95	
40	QPSK	108	0	16.98	17.06	16.94	18.0
40	QPSK	108	54	16.89	17.00	16.98	18.0
40	QPSK	108	108	17.06	17.10	17.06	18.0
40	QPSK	216	0	16.98	17.03	16.96	
40	16QAM	1	1	16.88	16.99	16.88	18.0
40	64QAM	1	1	16.95	17.03	17.00	18.0
40	256QAM	1	1	16.98	17.02	16.90	18.0
Channel				373500	376000	378500	Tune-up limit (dBm)
Frequency (MHz)				1867.5	1880	1892.5	
35	PI/2 BPSK	1	1	17.06	17.01	17.00	18.0
Channel				373000	376000	379000	Tune-up limit (dBm)
Frequency (MHz)				1865	1880	1895	
30	PI/2 BPSK	1	1	17.07	17.01	17.05	18.0
Channel				372500	376000	379500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1880	1897.5	
25	PI/2 BPSK	1	1	17.05	17.09	17.07	18.0
Channel				372000	376000	380000	Tune-up limit (dBm)
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	17.07	17.06	17.03	18.0
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	17.09	17.08	16.98	18.0
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	17.05	17.02	17.05	18.0



<FR1 n2_Ant MIMO2_Sensor ON>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376000	378000	22.5
Frequency (MHz)				1870	1880	1890	
40	PI/2 BPSK	1	1	21.73	21.80	21.76	
40	PI/2 BPSK	1	108	21.81	21.84	21.83	22.5
40	PI/2 BPSK	1	214	21.78	21.81	21.75	
40	PI/2 BPSK	108	0	21.66	21.70	21.69	
40	PI/2 BPSK	108	54	21.76	21.80	21.74	22.5
40	PI/2 BPSK	108	108	21.67	21.75	21.69	22.5
40	PI/2 BPSK	216	0	21.62	21.68	21.67	
40	QPSK	1	1	21.68	21.73	21.68	
40	QPSK	1	108	21.71	21.75	21.73	22.5
40	QPSK	1	214	21.65	21.72	21.71	
40	QPSK	108	0	21.62	21.69	21.67	
40	QPSK	108	54	21.66	21.72	21.70	22.5
40	QPSK	108	108	21.61	21.67	21.62	22.5
40	QPSK	216	0	21.65	21.69	21.65	
40	16QAM	1	1	21.63	21.70	21.69	
40	64QAM	1	1	21.38	21.41	21.37	22.1
40	256QAM	1	1	19.33	19.37	19.32	20.1
Channel				373500	376000	378500	22.5
Frequency (MHz)				1867.5	1880	1892.5	
35	PI/2 BPSK	1	1	21.59	21.67	21.58	
Channel				373000	376000	379000	22.5
Frequency (MHz)				1865	1880	1895	
30	PI/2 BPSK	1	1	21.66	21.75	21.69	
Channel				372500	376000	379500	22.5
Frequency (MHz)				1862.5	1880	1897.5	
25	PI/2 BPSK	1	1	21.60	21.73	21.70	
Channel				372000	376000	380000	22.5
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	21.69	21.70	21.69	
Channel				371500	376000	380500	22.5
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	21.59	21.65	21.71	
Channel				371000	376000	381000	22.5
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	21.68	21.72	21.68	

**<FR1 n7_Ant Main_Sensor ON>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				504000	507000	510000	
Frequency (MHz)				2520	2535	2550	
40	PI/2 BPSK	1	1	16.04	16.47	16.32	
40	PI/2 BPSK	1	108	16.31	16.63	16.57	16.7
40	PI/2 BPSK	1	214	16.14	16.56	16.44	
40	PI/2 BPSK	108	0	16.08	16.50	16.39	16.7
40	PI/2 BPSK	108	54	16.25	16.62	16.47	16.7
40	PI/2 BPSK	108	108	16.14	16.51	16.43	16.7
40	PI/2 BPSK	216	0	16.21	16.59	16.47	
40	QPSK	1	1	16.02	16.41	16.28	16.7
40	QPSK	1	108	16.18	16.53	16.45	
40	QPSK	1	214	16.20	16.60	16.53	
40	QPSK	108	0	16.15	16.50	16.42	16.7
40	QPSK	108	54	16.18	16.53	16.43	16.7
40	QPSK	108	108	16.19	16.52	16.38	16.7
40	QPSK	216	0	16.12	16.46	16.37	
40	16QAM	1	1	15.98	16.36	16.30	16.7
40	64QAM	1	1	15.99	16.38	16.23	16.7
40	256QAM	1	1	16.03	16.39	16.29	16.7
Channel				503500	507000	510500	Tune-up limit (dBm)
Frequency (MHz)				2517.5	2535	2552.5	
35	PI/2 BPSK	1	1	15.92	16.35	16.17	16.7
Channel				503000	507000	511000	Tune-up limit (dBm)
Frequency (MHz)				2515	2535	2555	
30	PI/2 BPSK	1	1	15.94	16.36	16.19	16.7
Channel				502500	507000	511500	Tune-up limit (dBm)
Frequency (MHz)				2512.5	2535	2557.5	
25	PI/2 BPSK	1	1	15.92	16.36	16.24	16.7
Channel				502000	507000	512000	Tune-up limit (dBm)
Frequency (MHz)				2510	2535	2560	
20	PI/2 BPSK	1	1	15.96	16.32	16.19	16.7
Channel				501500	507000	512500	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	PI/2 BPSK	1	1	15.89	16.41	16.18	16.7
Channel				501000	507000	513000	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	PI/2 BPSK	1	1	15.99	16.36	16.19	16.7
Channel				500500	507000	513500	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	PI/2 BPSK	1	1	15.90	16.34	16.21	16.7



<FR1 n7_Ant MIMO2_Sensor ON>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				504000	507000	510000	23.2
Frequency (MHz)				2520	2535	2550	
40	PI/2 BPSK	1	1	22.46	22.61	22.48	
40	PI/2 BPSK	1	108	22.64	22.75	22.66	23.2
40	PI/2 BPSK	1	214	22.48	22.64	22.51	
40	PI/2 BPSK	108	0	22.44	22.60	22.46	
40	PI/2 BPSK	108	54	22.59	22.74	22.63	23.2
40	PI/2 BPSK	108	108	22.40	22.56	22.45	
40	PI/2 BPSK	216	0	22.54	22.69	22.58	
40	QPSK	1	1	22.42	22.58	22.45	23.2
40	QPSK	1	108	22.52	22.67	22.56	
40	QPSK	1	214	22.49	22.64	22.50	
40	QPSK	108	0	22.48	22.63	22.50	23.2
40	QPSK	108	54	22.50	22.66	22.53	
40	QPSK	108	108	22.44	22.58	22.44	
40	QPSK	216	0	22.43	22.57	22.46	23.2
40	16QAM	1	1	22.38	22.54	22.43	
40	64QAM	1	1	20.90	21.04	20.91	
40	256QAM	1	1	18.91	19.04	18.92	20.0
Channel				503500	507000	510500	23.2
Frequency (MHz)				2517.5	2535	2552.5	
35	PI/2 BPSK	1	1	22.38	22.55	22.45	
Channel				503000	507000	511000	23.2
Frequency (MHz)				2515	2535	2555	
30	PI/2 BPSK	1	1	22.38	22.57	22.39	
Channel				502500	507000	511500	23.2
Frequency (MHz)				2512.5	2535	2557.5	
25	PI/2 BPSK	1	1	22.40	22.53	22.43	
Channel				502000	507000	512000	23.2
Frequency (MHz)				2510	2535	2560	
20	PI/2 BPSK	1	1	22.36	22.49	22.35	
Channel				501500	507000	512500	23.2
Frequency (MHz)				2507.5	2535	2562.5	
15	PI/2 BPSK	1	1	22.43	22.55	22.42	
Channel				501000	507000	513000	23.2
Frequency (MHz)				2505	2535	2565	
10	PI/2 BPSK	1	1	22.35	22.55	22.41	
Channel				500500	507000	513500	23.2
Frequency (MHz)				2502.5	2535	2567.5	
5	PI/2 BPSK	1	1	22.35	22.56	22.36	



<FR1 n25_Ant Main_Sensor ON>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376500	379000	18.0
Frequency (MHz)				1870	1882.5	1895	
40	PI/2 BPSK	1	1	17.09	17.15	17.05	
40	PI/2 BPSK	1	108	17.16	17.20	17.19	18.0
40	PI/2 BPSK	1	214	17.11	17.16	17.06	
40	PI/2 BPSK	108	0	17.09	17.15	17.13	
40	PI/2 BPSK	108	54	17.07	17.17	17.16	18.0
40	PI/2 BPSK	108	108	16.98	17.09	17.00	18.0
40	PI/2 BPSK	216	0	17.10	17.14	17.04	
40	QPSK	1	1	17.05	17.15	17.12	
40	QPSK	1	108	16.96	17.08	17.06	18.0
40	QPSK	1	214	17.02	17.13	17.05	
40	QPSK	108	0	16.95	17.05	16.96	
40	QPSK	108	54	17.02	17.08	17.07	18.0
40	QPSK	108	108	16.98	17.07	16.97	18.0
40	QPSK	216	0	17.09	17.13	17.07	
40	16QAM	1	1	16.96	17.10	17.02	
40	64QAM	1	1	17.06	17.11	17.01	18.0
40	256QAM	1	1	17.04	17.08	16.98	18.0
Channel				373500	376500	379500	18.0
Frequency (MHz)				1867.5	1882.5	1897.5	
35	PI/2 BPSK	1	1	16.99	17.01	16.95	
Channel				373000	376500	380000	18.0
Frequency (MHz)				1865	1882.5	1900	
30	PI/2 BPSK	1	1	16.93	16.95	16.89	
Channel				372500	376500	380500	18.0
Frequency (MHz)				1862.5	1882.5	1902.5	
25	PI/2 BPSK	1	1	16.89	16.96	16.88	
Channel				372000	376500	381000	18.0
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	16.99	17.01	16.95	
Channel				371500	376500	381500	18.0
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	16.98	16.99	16.91	
Channel				371000	376500	382000	18.0
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	16.90	17.02	16.88	
Channel				370500	376500	382500	18.0
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	16.89	17.03	16.90	



<FR1 n25_Ant MIMO2_Sensor ON>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376500	379000	22.5
Frequency (MHz)				1870	1882.5	1895	
40	PI/2 BPSK	1	1	21.79	21.84	21.76	
40	PI/2 BPSK	1	108	21.84	21.88	21.83	22.5
40	PI/2 BPSK	1	214	21.80	21.85	21.77	
40	PI/2 BPSK	108	0	21.70	21.74	21.68	
40	PI/2 BPSK	108	54	21.80	21.84	21.77	22.5
40	PI/2 BPSK	108	108	21.71	21.79	21.73	
40	PI/2 BPSK	216	0	21.63	21.72	21.67	
40	QPSK	1	1	21.70	21.77	21.70	22.5
40	QPSK	1	108	21.75	21.79	21.69	
40	QPSK	1	214	21.67	21.76	21.67	
40	QPSK	108	0	21.64	21.73	21.67	22.5
40	QPSK	108	54	21.69	21.76	21.71	
40	QPSK	108	108	21.66	21.71	21.62	
40	QPSK	216	0	21.66	21.73	21.66	22.5
40	16QAM	1	1	21.68	21.74	21.65	
40	64QAM	1	1	21.40	21.45	21.35	
40	256QAM	1	1	19.33	19.41	19.33	20.1
Channel				373500	376500	379500	22.5
Frequency (MHz)				1867.5	1882.5	1897.5	
35	PI/2 BPSK	1	1	21.75	21.69	21.64	
Channel				373000	376500	380000	22.5
Frequency (MHz)				1865	1882.5	1900	
30	PI/2 BPSK	1	1	21.76	21.69	21.69	
Channel				372500	376500	380500	22.5
Frequency (MHz)				1862.5	1882.5	1902.5	
25	PI/2 BPSK	1	1	21.71	21.68	21.61	
Channel				372000	376500	381000	22.5
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	21.74	21.72	21.71	
Channel				371500	376500	381500	22.5
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	21.70	21.75	21.61	
Channel				371000	376500	382000	22.5
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	21.73	21.74	21.66	
Channel				370500	376500	382500	22.5
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	21.67	21.68	21.69	

<FR1 n30_Ant Main_Sensor ON>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					462000		
Frequency (MHz)					2310		
10	PI/2 BPSK	1	1		16.43		17.0
10	PI/2 BPSK	1	26		16.46		
10	PI/2 BPSK	1	50		16.39		
10	PI/2 BPSK	25	0		16.41		17.0
10	PI/2 BPSK	25	14		16.42		17.0
10	PI/2 BPSK	25	27		16.39		17.0
10	PI/2 BPSK	50	0		16.41		
10	QPSK	1	1		16.34		17.0
10	QPSK	1	26		16.43		
10	QPSK	1	50		16.40		
10	QPSK	25	0		16.41		17.0
10	QPSK	25	14		16.31		17.0
10	QPSK	25	27		16.40		17.0
10	QPSK	50	0		16.39		
10	16QAM	1	1		16.32		17.0
10	64QAM	1	1		16.28		17.0
10	256QAM	1	1		16.29		17.0
Channel				461500	462000	462500	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	PI/2 BPSK	1	1	16.36	16.38	16.34	17.0

<FR1 n30_Ant MIMO2_Sensor ON>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					462000		
Frequency (MHz)					2310		
10	PI/2 BPSK	1	1		21.57		22.4
10	PI/2 BPSK	1	26		21.66		
10	PI/2 BPSK	1	50		21.56		
10	PI/2 BPSK	25	0		21.57		21.9
10	PI/2 BPSK	25	14		21.61		22.4
10	PI/2 BPSK	25	27		21.58		21.9
10	PI/2 BPSK	50	0		21.63		
10	QPSK	1	1		21.57		22.4
10	QPSK	1	26		21.58		
10	QPSK	1	50		21.56		
10	QPSK	25	0		21.07		21.4
10	QPSK	25	14		21.47		22.4
10	QPSK	25	27		21.08		21.4
10	QPSK	50	0		21.07		
10	16QAM	1	1		21.08		21.4
10	64QAM	1	1		19.53		20.5
10	256QAM	1	1		17.50		18.5
Channel				461500	462000	462500	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	PI/2 BPSK	1	1	21.49	21.53	21.51	22.4



<FR1 n66_Ant Main_Sensor ON>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				346000	349000	352000	18.0
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	16.80	16.87	16.81	
40	PI/2 BPSK	1	108	16.88	16.91	16.86	18.0
40	PI/2 BPSK	1	214	16.76	16.86	16.78	
40	PI/2 BPSK	108	0	16.73	16.85	16.75	
40	PI/2 BPSK	108	54	16.78	16.88	16.76	18.0
40	PI/2 BPSK	108	108	16.77	16.87	16.76	18.0
40	PI/2 BPSK	216	0	16.82	16.88	16.74	
40	QPSK	1	1	16.78	16.83	16.74	
40	QPSK	1	108	16.74	16.80	16.68	18.0
40	QPSK	1	214	16.77	16.81	16.76	
40	QPSK	108	0	16.69	16.80	16.74	
40	QPSK	108	54	16.75	16.82	16.72	18.0
40	QPSK	108	108	16.78	16.87	16.78	18.0
40	QPSK	216	0	16.75	16.86	16.76	
40	16QAM	1	1	16.72	16.82	16.77	
40	64QAM	1	1	16.79	16.84	16.69	18.0
40	256QAM	1	1	16.66	16.78	16.70	18.0
Channel				345500	349000	352500	Tune-up limit (dBm)
Frequency (MHz)				1727.5	1745	1762.5	18.0
35	PI/2 BPSK	1	1	16.74	16.83	16.78	
Channel				345000	349000	353000	Tune-up limit (dBm)
Frequency (MHz)				1725	1745	1765	18.0
30	PI/2 BPSK	1	1	16.78	16.85	16.77	
Channel				344500	349000	353500	Tune-up limit (dBm)
Frequency (MHz)				1722.5	1745	1767.5	18.0
25	PI/2 BPSK	1	1	16.71	16.79	16.72	
Channel				344000	349000	354000	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	18.0
20	PI/2 BPSK	1	1	16.71	16.80	16.73	
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	18.0
15	PI/2 BPSK	1	1	16.75	16.85	16.75	
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	18.0
10	PI/2 BPSK	1	1	16.75	16.81	16.75	
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	18.0
5	PI/2 BPSK	1	1	16.75	16.84	16.72	



<FR1 n66_Ant MIMO2_Sensor ON>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				346000	349000	352000	
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	21.58	21.62	21.53	
40	PI/2 BPSK	1	108	21.67	21.71	21.63	22.5
40	PI/2 BPSK	1	214	21.55	21.65	21.52	
40	PI/2 BPSK	108	0	21.52	21.62	21.50	
40	PI/2 BPSK	108	54	21.59	21.68	21.58	22.5
40	PI/2 BPSK	108	108	21.57	21.67	21.54	22.5
40	PI/2 BPSK	216	0	21.59	21.66	21.55	
40	QPSK	1	1	21.61	21.69	21.55	
40	QPSK	1	108	21.46	21.56	21.44	22.5
40	QPSK	1	214	21.50	21.59	21.47	
40	QPSK	108	0	21.52	21.60	21.47	
40	QPSK	108	54	21.52	21.59	21.45	22.5
40	QPSK	108	108	21.55	21.62	21.52	22.5
40	QPSK	216	0	21.58	21.64	21.51	
40	16QAM	1	1	21.55	21.65	21.52	
40	64QAM	1	1	21.55	21.64	21.51	22.0
40	256QAM	1	1	19.42	19.52	19.39	20.0
Channel				345500	349000	352500	Tune-up limit (dBm)
Frequency (MHz)				1727.5	1745	1762.5	
35	PI/2 BPSK	1	1	21.53	21.50	21.44	
Channel				345000	349000	353000	Tune-up limit (dBm)
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	21.48	21.47	21.40	
Channel				344500	349000	353500	Tune-up limit (dBm)
Frequency (MHz)				1722.5	1745	1767.5	
25	PI/2 BPSK	1	1	21.52	21.50	21.39	
Channel				344000	349000	354000	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	21.45	21.54	21.48	
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	21.44	21.49	21.38	
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	21.45	21.57	21.38	
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	21.51	21.49	21.47	

<FR1 n70_Ant Main_Sensor ON>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					340500		
Frequency (MHz)					1702.5		
15	PI/2 BPSK	1	1		17.58		18.6
15	PI/2 BPSK	1	40		17.65		
15	PI/2 BPSK	1	77		17.61		
15	PI/2 BPSK	36	0		17.59		18.6
15	PI/2 BPSK	36	22		17.62		18.6
15	PI/2 BPSK	36	43		17.53		18.6
15	PI/2 BPSK	75	0		17.54		
15	QPSK	1	1		17.53		18.6
15	QPSK	1	40		17.60		
15	QPSK	1	77		17.59		
15	QPSK	36	0		17.58		18.6
15	QPSK	36	22		17.59		18.6
15	QPSK	36	43		17.50		18.6
15	QPSK	75	0		17.57		
15	16QAM	1	1		17.56		18.6
15	64QAM	1	1		17.58		18.6
15	256QAM	1	1		17.61		18.6
Channel				340000	340500	341000	Tune-up limit (dBm)
Frequency (MHz)				1700	1702.5	1705	
10	PI/2 BPSK	1	1	17.48	17.52	17.46	18.6
Channel				339500	340500	341500	Tune-up limit (dBm)
Frequency (MHz)				1697.5	1702.5	1707.5	
5	PI/2 BPSK	1	1	17.43	17.54	17.49	18.6

<FR1 n70_Ant MIMO2_Sensor ON>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					340500		
Frequency (MHz)					1702.5		
15	PI/2 BPSK	1	1		20.23		20.5
15	PI/2 BPSK	1	40		20.24		
15	PI/2 BPSK	1	77		20.21		
15	PI/2 BPSK	36	0		20.13		20.5
15	PI/2 BPSK	36	22		20.17		20.5
15	PI/2 BPSK	36	43		20.14		20.5
15	PI/2 BPSK	75	0		20.22		
15	QPSK	1	1		20.12		20.5
15	QPSK	1	40		20.19		
15	QPSK	1	77		20.22		
15	QPSK	36	0		20.15		20.5
15	QPSK	36	22		20.05		20.5
15	QPSK	36	43		20.13		20.5
15	QPSK	75	0		20.11		
15	16QAM	1	1		20.14		20.5
15	64QAM	1	1		20.09		20.5
15	256QAM	1	1		18.57		19.0
Channel				340000	340500	341000	Tune-up limit (dBm)
Frequency (MHz)				1700	1702.5	1705	
10	PI/2 BPSK	1	1	20.17	20.14	20.02	20.5
Channel				339500	340500	341500	Tune-up limit (dBm)
Frequency (MHz)				1697.5	1702.5	1707.5	
5	PI/2 BPSK	1	1	20.09	20.07	20.10	20.5

**<FR1 n38_Ant Main_Sensor ON>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				518000	519000	520000	
Frequency (MHz)				2590	2595	2600	
40	PI/2 BPSK	1	1	16.26	16.30	16.29	
40	PI/2 BPSK	1	53	16.08	16.13	16.09	16.5
40	PI/2 BPSK	1	104	15.94	15.99	15.94	
40	PI/2 BPSK	50	0	16.20	16.24	16.23	
40	PI/2 BPSK	50	28	16.21	16.28	16.23	16.5
40	PI/2 BPSK	50	56	16.01	16.08	16.03	16.5
40	PI/2 BPSK	100	0	16.10	16.19	16.18	
40	QPSK	1	1	16.13	16.20	16.16	
40	QPSK	1	53	16.03	16.07	16.03	16.5
40	QPSK	1	104	15.91	15.98	15.93	
40	QPSK	50	0	16.16	16.23	16.18	
40	QPSK	50	28	16.11	16.16	16.15	16.5
40	QPSK	50	56	16.03	16.07	16.02	16.5
40	QPSK	100	0	16.11	16.16	16.11	
40	16QAM	1	1	16.06	16.11	16.06	
40	64QAM	1	1	16.09	16.13	16.08	16.5
40	256QAM	1	1	16.07	16.14	16.11	16.5
Channel				517000	519000	521000	Tune-up limit (dBm)
Frequency (MHz)				2585	2595	2605	
30	PI/2 BPSK	1	1	16.21	16.23	16.20	
Channel				516500	519000	521500	Tune-up limit (dBm)
Frequency (MHz)				2582.5	2595	2607.5	
25	PI/2 BPSK	1	1	16.18	16.25	16.15	
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	16.19	16.16	16.20	
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	16.14	16.25	16.20	
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	16.16	16.20	16.22	



<FR1 n38_Ant MIMO2_Sensor ON>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				518000	519000	520000	23.0
Frequency (MHz)				2590	2595	2600	
40	PI/2 BPSK	1	1	22.33	22.34	22.29	
40	PI/2 BPSK	1	53	22.15	22.10	22.05	23.0
40	PI/2 BPSK	1	104	21.78	21.82	21.73	
40	PI/2 BPSK	50	0	22.21	22.23	22.14	
40	PI/2 BPSK	50	28	22.16	22.22	22.15	23.0
40	PI/2 BPSK	50	56	21.89	21.90	21.82	23.0
40	PI/2 BPSK	100	0	22.08	22.11	22.03	
40	QPSK	1	1	22.19	22.24	22.19	
40	QPSK	1	53	21.99	22.02	21.97	23.0
40	QPSK	1	104	21.76	21.80	21.72	
40	QPSK	50	0	22.22	22.28	22.20	
40	QPSK	50	28	22.09	22.12	22.04	23.0
40	QPSK	50	56	21.89	21.91	21.81	23.0
40	QPSK	100	0	22.04	22.08	22.00	
40	16QAM	1	1	22.12	22.17	22.11	
40	64QAM	1	1	21.17	21.23	21.15	22.2
40	256QAM	1	1	19.17	19.23	19.15	20.2
Channel				517000	519000	521000	Tune-up limit (dBm)
Frequency (MHz)				2585	2595	2605	
30	PI/2 BPSK	1	1	22.23	22.30	22.25	
Channel				516500	519000	521500	Tune-up limit (dBm)
Frequency (MHz)				2582.5	2595	2607.5	
25	PI/2 BPSK	1	1	22.26	22.28	22.19	
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	22.26	22.31	22.24	
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	22.24	22.28	22.24	
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	22.29	22.24	22.22	



<FR1 n41_Ant Main_Sensor ON>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	16.5
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	15.96	16.27	16.15	
100	PI/2 BPSK	1	137	15.72	16.06	15.92	16.5
100	PI/2 BPSK	1	271	15.71	16.03	15.88	
100	PI/2 BPSK	135	0	15.73	16.06	15.89	
100	PI/2 BPSK	135	69	15.79	16.15	15.98	16.5
100	PI/2 BPSK	135	138	15.67	16.03	15.88	16.5
100	PI/2 BPSK	270	0	15.73	16.08	15.93	
100	QPSK	1	1	15.88	16.21	16.06	
100	QPSK	1	137	15.66	15.98	15.81	16.5
100	QPSK	1	271	15.71	16.07	15.95	
100	QPSK	135	0	15.70	16.06	15.93	
100	QPSK	135	69	15.59	15.91	15.77	16.5
100	QPSK	135	138	15.62	15.97	15.81	16.5
100	QPSK	270	0	15.69	16.01	15.87	
100	16QAM	1	1	15.80	16.15	15.98	
100	64QAM	1	1	15.80	16.16	16.04	16.5
100	256QAM	1	1	15.83	16.14	16.01	16.5
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	15.94	16.21	16.00	16.5
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	15.91	16.18	16.07	16.5
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	15.92	16.23	16.00	16.5
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	15.90	16.16	16.02	16.5
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	15.92	16.17	16.10	16.5
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	15.92	16.17	16.00	16.5
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	15.87	16.20	16.12	16.5
Channel				501702	518598	535500	Tune-up limit (dBm)
Frequency (MHz)				2508.51	2592.99	2677.5	
25	PI/2 BPSK	1	1	15.88	16.13	16.01	16.5
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	15.82	16.23	16.01	16.5
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	15.84	16.19	15.94	16.5
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	15.84	16.24	16.03	16.5



<FR1 n41_Ant MIMO2_Sensor ON>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	22.23	22.24	22.20	
100	PI/2 BPSK	1	137	21.83	21.89	21.81	23.0
100	PI/2 BPSK	1	271	21.37	21.42	21.35	
100	PI/2 BPSK	135	0	21.82	21.87	21.82	
100	PI/2 BPSK	135	69	21.97	22.02	21.98	23.0
100	PI/2 BPSK	135	138	21.56	21.60	21.56	23.0
100	PI/2 BPSK	270	0	21.76	21.79	21.72	
100	QPSK	1	1	22.16	22.20	22.15	
100	QPSK	1	137	21.78	21.84	21.80	23.0
100	QPSK	1	271	21.40	21.42	21.33	
100	QPSK	135	0	21.93	21.95	21.88	
100	QPSK	135	69	21.65	21.67	21.58	23.0
100	QPSK	135	138	21.54	21.56	21.47	23.0
100	QPSK	270	0	21.74	21.80	21.75	
100	16QAM	1	1	22.08	22.13	22.08	
100	64QAM	1	1	21.79	21.83	21.74	22.0
100	256QAM	1	1	19.82	19.87	19.80	20.5
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	22.13	22.19	22.15	
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	22.13	22.14	22.13	
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	22.15	22.15	22.11	
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	22.14	22.21	22.15	
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	22.14	22.19	22.11	
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	22.14	22.16	22.17	
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	22.15	22.18	22.14	
Channel				501702	518598	535500	Tune-up limit (dBm)
Frequency (MHz)				2508.51	2592.99	2677.5	
25	PI/2 BPSK	1	1	22.14	22.19	22.16	
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	22.16	22.17	22.17	
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	22.16	22.17	22.14	
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	22.17	22.16	22.14	



<FR1 n41_Ant MIMO3_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	15.0
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	13.82	14.20	13.85	
100	PI/2 BPSK	1	137	13.36	13.76	13.37	15.0
100	PI/2 BPSK	1	271	13.36	13.74	13.39	
100	PI/2 BPSK	135	0	13.37	13.79	13.41	
100	PI/2 BPSK	135	69	13.51	13.89	13.53	15.0
100	PI/2 BPSK	135	138	13.26	13.68	13.28	15.0
100	PI/2 BPSK	270	0	13.44	13.84	13.48	
100	QPSK	1	1	13.81	14.19	13.79	
100	QPSK	1	137	13.34	13.75	13.36	15.0
100	QPSK	1	271	13.31	13.74	13.36	
100	QPSK	135	0	13.48	13.87	13.49	
100	QPSK	135	69	13.35	13.76	13.38	15.0
100	QPSK	135	138	13.29	13.68	13.32	15.0
100	QPSK	270	0	13.40	13.83	13.43	
100	16QAM	1	1	13.76	14.19	13.80	
100	64QAM	1	1	13.77	14.18	13.80	15.0
100	256QAM	1	1	13.78	14.19	13.83	15.0
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	13.75	14.15	13.75	
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	13.75	14.12	13.82	
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	13.78	14.17	13.78	
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	13.75	14.13	13.75	
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	13.77	14.16	13.80	
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	13.73	14.14	13.79	
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	13.79	14.16	13.76	
Channel				501702	518598	535500	Tune-up limit (dBm)
Frequency (MHz)				2508.51	2592.99	2677.5	
25	PI/2 BPSK	1	1	13.72	14.12	13.81	
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	13.75	14.15	13.78	
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	13.73	14.13	13.77	
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	13.74	14.12	13.79	



<FR1 n41_Ant Aux_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	10.3
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	9.19	9.33	9.13	
100	PI/2 BPSK	1	137	8.93	9.11	8.90	10.3
100	PI/2 BPSK	1	271	8.98	9.13	8.91	
100	PI/2 BPSK	135	0	8.96	9.15	8.92	
100	PI/2 BPSK	135	69	8.94	9.12	8.90	10.3
100	PI/2 BPSK	135	138	8.97	9.11	8.86	10.3
100	PI/2 BPSK	270	0	8.97	9.16	8.96	
100	QPSK	1	1	9.11	9.28	9.04	
100	QPSK	1	137	8.93	9.10	8.88	10.3
100	QPSK	1	271	8.94	9.13	8.92	
100	QPSK	135	0	8.98	9.15	8.94	
100	QPSK	135	69	8.90	9.06	8.86	10.3
100	QPSK	135	138	8.97	9.14	8.92	10.3
100	QPSK	270	0	9.03	9.17	8.96	
100	16QAM	1	1	9.16	9.31	9.11	
100	64QAM	1	1	9.16	9.32	9.12	10.3
100	256QAM	1	1	9.18	9.32	9.12	10.3
Channel				508200	518598	528996	10.3
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	9.10	9.23	9.06	
Channel				507204	518598	529998	10.3
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	9.14	9.23	9.09	
Channel				506202	518598	531000	10.3
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	9.10	9.28	9.08	
Channel				505200	518598	531996	10.3
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	9.09	9.30	9.05	
Channel				504204	518598	532998	10.3
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	9.14	9.25	9.03	
Channel				503202	518598	534000	10.3
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	9.16	9.24	9.03	
Channel				502200	518598	534996	10.3
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	9.16	9.28	9.10	
Channel				501702	518598	535500	10.3
Frequency (MHz)				2508.51	2592.99	2677.5	
25	PI/2 BPSK	1	1	9.15	9.26	9.08	
Channel				501204	518598	535998	10.3
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	9.12	9.29	9.03	
Channel				500700	518598	536496	10.3
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	9.11	9.27	9.06	
Channel				500202	518598	537000	10.3
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	9.09	9.29	9.07	

**<FR1 n41_HPUE_Ant Main_Sensor ON>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	19.5
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	18.43	18.79	18.63	
100	PI/2 BPSK	1	137	18.14	18.55	18.35	19.5
100	PI/2 BPSK	1	271	18.20	18.59	18.40	
100	PI/2 BPSK	135	0	18.19	18.59	18.40	
100	PI/2 BPSK	135	69	18.25	18.65	18.45	19.5
100	PI/2 BPSK	135	138	18.12	18.49	18.32	19.5
100	PI/2 BPSK	270	0	18.20	18.61	18.40	
100	QPSK	1	1	18.39	18.78	18.61	
100	QPSK	1	137	18.14	18.50	18.29	19.5
100	QPSK	1	271	18.14	18.54	18.38	
100	QPSK	135	0	18.08	18.49	18.31	
100	QPSK	135	69	18.21	18.61	18.41	19.5
100	QPSK	135	138	18.08	18.48	18.30	19.5
100	QPSK	270	0	18.20	18.60	18.39	
100	16QAM	1	1	18.31	18.70	18.51	
100	64QAM	1	1	18.29	18.69	18.48	19.5
100	256QAM	1	1	18.33	18.74	18.58	19.5
Channel				508200	518598	528996	19.5
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	18.38	18.65	18.55	
Channel				507204	518598	529998	19.5
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	18.36	18.71	18.53	
Channel				506202	518598	531000	19.5
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	18.31	18.71	18.54	
Channel				505200	518598	531996	19.5
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	18.35	18.66	18.53	
Channel				504204	518598	532998	19.5
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	18.28	18.65	18.55	
Channel				503202	518598	534000	19.5
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	18.36	18.70	18.55	
Channel				502200	518598	534996	19.5
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	18.31	18.71	18.52	
Channel				501702	518598	535500	19.5
Frequency (MHz)				2508.51	2592.99	2677.5	
25	PI/2 BPSK	1	1	18.40	18.63	18.58	
Channel				501204	518598	535998	19.5
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	18.37	18.74	18.60	
Channel				500700	518598	536496	19.5
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	18.32	18.74	18.60	
Channel				500202	518598	537000	19.5
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	18.40	18.71	18.47	



<FR1 n41_HPUE_Ant MIMO2_Sensor ON>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	26.0
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	25.25	25.26	25.25	
100	PI/2 BPSK	1	137	24.78	24.79	24.76	26.0
100	PI/2 BPSK	1	271	24.37	24.39	24.36	
100	PI/2 BPSK	135	0	24.98	25.03	24.97	
100	PI/2 BPSK	135	69	24.81	24.83	24.78	26.0
100	PI/2 BPSK	135	138	24.49	24.55	24.50	26.0
100	PI/2 BPSK	270	0	24.75	24.80	24.77	
100	QPSK	1	1	25.21	25.22	25.16	
100	QPSK	1	137	24.68	24.74	24.72	26.0
100	QPSK	1	271	24.31	24.35	24.34	
100	QPSK	135	0	24.92	24.95	24.94	
100	QPSK	135	69	24.69	24.74	24.71	26.0
100	QPSK	135	138	24.07	24.09	24.06	26.0
100	QPSK	270	0	24.76	24.80	24.79	
100	16QAM	1	1	25.14	25.15	25.09	
100	64QAM	1	1	23.35	24.37	24.38	24.5
100	256QAM	1	1	22.28	22.39	22.42	22.5
Channel				508200	518598	528996	26.0
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	25.21	25.18	25.15	
Channel				507204	518598	529998	26.0
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	25.17	25.16	25.15	
Channel				506202	518598	531000	26.0
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	25.19	25.23	25.18	
Channel				505200	518598	531996	26.0
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	25.15	25.23	25.22	
Channel				504204	518598	532998	26.0
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	25.18	25.16	25.17	
Channel				503202	518598	534000	26.0
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	25.18	25.16	25.21	
Channel				502200	518598	534996	26.0
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	25.15	25.20	25.17	
Channel				501702	518598	535500	26.0
Frequency (MHz)				2508.51	2592.99	2677.5	
25	PI/2 BPSK	1	1	25.19	25.16	25.16	
Channel				501204	518598	535998	26.0
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	25.19	25.23	25.21	
Channel				500700	518598	536496	26.0
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	25.18	25.22	25.17	
Channel				500202	518598	537000	26.0
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	25.22	25.17	25.20	



<FR1 n41_HPUE_Ant MIMO3_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	18.0
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	16.86	17.18	16.88	
100	PI/2 BPSK	1	137	16.42	16.77	16.44	18.0
100	PI/2 BPSK	1	271	16.41	16.78	16.43	
100	PI/2 BPSK	135	0	16.49	16.81	16.47	
100	PI/2 BPSK	135	69	16.63	17.00	16.68	18.0
100	PI/2 BPSK	135	138	16.45	16.77	16.42	18.0
100	PI/2 BPSK	270	0	16.51	16.84	16.52	
100	QPSK	1	1	16.81	17.17	16.87	
100	QPSK	1	137	16.40	16.74	16.39	18.0
100	QPSK	1	271	16.39	16.75	16.44	
100	QPSK	135	0	16.50	16.84	16.49	
100	QPSK	135	69	16.63	16.95	16.60	18.0
100	QPSK	135	138	16.32	16.68	16.34	18.0
100	QPSK	270	0	16.50	16.83	16.48	
100	16QAM	1	1	16.78	17.10	16.77	
100	64QAM	1	1	16.70	17.02	16.71	18.0
100	256QAM	1	1	16.74	17.09	16.77	18.0
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	16.82	17.10	16.80	
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	16.76	17.14	16.85	
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	16.77	17.15	16.78	
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	16.77	17.10	16.83	
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	16.76	17.09	16.79	
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	16.76	17.14	16.81	
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	16.82	17.10	16.85	
Channel				501702	518598	535500	Tune-up limit (dBm)
Frequency (MHz)				2508.51	2592.99	2677.5	
25	PI/2 BPSK	1	1	16.79	17.08	16.78	
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	16.81	17.15	16.78	
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	16.79	17.15	16.84	
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	16.78	17.13	16.84	



<FR1 n41_HPUE_Ant Aux_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	13.3
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	12.16	12.35	12.10	
100	PI/2 BPSK	1	137	11.81	12.04	11.79	13.3
100	PI/2 BPSK	1	271	11.82	12.04	11.77	
100	PI/2 BPSK	135	0	11.88	12.12	11.82	
100	PI/2 BPSK	135	69	11.79	12.03	11.73	13.3
100	PI/2 BPSK	135	138	11.72	11.95	11.65	13.3
100	PI/2 BPSK	270	0	11.94	12.15	11.86	
100	QPSK	1	1	11.91	12.10	11.80	
100	QPSK	1	137	11.68	11.92	11.62	13.3
100	QPSK	1	271	11.79	11.98	11.73	
100	QPSK	135	0	11.91	12.15	11.88	
100	QPSK	135	69	11.67	11.89	11.59	13.3
100	QPSK	135	138	11.74	11.97	11.69	13.3
100	QPSK	270	0	11.88	12.11	11.84	
100	16QAM	1	1	12.06	12.30	12.03	
100	64QAM	1	1	12.06	12.26	11.96	13.3
100	256QAM	1	1	12.07	12.28	12.03	13.3
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	12.09	12.29	12.06	
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	12.08	12.32	12.06	
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	12.10	12.25	12.05	
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	12.07	12.28	12.07	
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	12.11	12.31	12.04	
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	12.07	12.30	12.03	
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	12.13	12.31	12.06	
Channel				501702	518598	535500	Tune-up limit (dBm)
Frequency (MHz)				2508.51	2592.99	2677.5	
25	PI/2 BPSK	1	1	12.12	12.30	12.02	
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	12.06	12.31	12.05	
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	12.09	12.25	12.02	
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	12.11	12.28	12.00	

**<FR1 n41_IC_Ant Main_Sensor ON>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				510000	518598	528000	16.5
Frequency (MHz)				2550	2592.99	2640	
100	PI/2 BPSK	1	1	15.93	16.27	16.15	
100	PI/2 BPSK	1	137	15.69	16.06	15.92	16.5
100	PI/2 BPSK	1	271	15.67	16.03	15.88	
100	PI/2 BPSK	135	0	15.72	16.06	15.89	
100	PI/2 BPSK	135	69	15.80	16.15	15.98	16.5
100	PI/2 BPSK	135	138	15.66	16.03	15.88	16.5
100	PI/2 BPSK	270	0	15.69	16.08	15.93	
100	QPSK	1	1	15.84	16.21	16.06	
100	QPSK	1	137	15.64	15.98	15.81	16.5
100	QPSK	1	271	15.69	16.07	15.95	
100	QPSK	135	0	15.69	16.06	15.93	
100	QPSK	135	69	15.54	15.91	15.77	16.5
100	QPSK	135	138	15.63	15.97	15.81	16.5
100	QPSK	270	0	15.67	16.01	15.87	
100	16QAM	1	1	15.77	16.15	15.98	
100	64QAM	1	1	15.82	16.16	16.04	16.5
100	256QAM	1	1	15.76	16.14	16.01	16.5
Channel				509004	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2545.02	2592.99	2644.98	
90	PI/2 BPSK	1	1	15.84	16.21	16.00	16.5
Channel				508002	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2540.01	2592.99	2649.99	
80	PI/2 BPSK	1	1	15.87	16.18	16.07	16.5
Channel				507000	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2535	2592.99	2655	
70	PI/2 BPSK	1	1	15.78	16.23	16.00	16.5
Channel				506004	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2530.02	2592.99	2659.98	
60	PI/2 BPSK	1	1	15.85	16.16	16.02	16.5
Channel				505002	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2525.01	2592.99	2664.99	
50	PI/2 BPSK	1	1	15.81	16.17	16.10	16.5
Channel				504000	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2520	2592.99	2670	
40	PI/2 BPSK	1	1	15.80	16.17	16.00	16.5
Channel				503004	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2515.02	2592.99	2674.98	
30	PI/2 BPSK	1	1	15.78	16.20	16.12	16.5
Channel				502500	518598	535500	Tune-up limit (dBm)
Frequency (MHz)				2512.5	2592.99	2677.50	
25	PI/2 BPSK	1	1	15.82	16.13	16.01	16.5
Channel				502002	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2510.01	2592.99	2679.99	
20	PI/2 BPSK	1	1	15.80	16.23	16.01	16.5
Channel				501504	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2507.52	2592.99	2682.48	
15	PI/2 BPSK	1	1	15.81	16.19	15.94	16.5
Channel				501000	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2505	2592.99	2685	
10	PI/2 BPSK	1	1	15.78	16.24	16.03	16.5



<FR1 n41_IC_Ant MIMO2_Sensor ON>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				510000	518598	528000	23.0
Frequency (MHz)				2550	2592.99	2640	
100	PI/2 BPSK	1	1	22.22	22.24	22.20	
100	PI/2 BPSK	1	137	21.87	21.89	21.81	23.0
100	PI/2 BPSK	1	271	21.37	21.42	21.35	
100	PI/2 BPSK	135	0	21.83	21.87	21.82	
100	PI/2 BPSK	135	69	21.99	22.02	21.98	23.0
100	PI/2 BPSK	135	138	21.56	21.60	21.56	23.0
100	PI/2 BPSK	270	0	21.77	21.79	21.72	
100	QPSK	1	1	22.14	22.20	22.15	
100	QPSK	1	137	21.82	21.84	21.80	23.0
100	QPSK	1	271	21.38	21.42	21.33	
100	QPSK	135	0	21.92	21.95	21.88	
100	QPSK	135	69	21.63	21.67	21.58	23.0
100	QPSK	135	138	21.51	21.56	21.47	23.0
100	QPSK	270	0	21.76	21.80	21.75	
100	16QAM	1	1	22.09	22.13	22.08	
100	64QAM	1	1	21.81	21.83	21.74	22.0
100	256QAM	1	1	19.84	19.87	19.80	20.5
Channel				509004	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2545.02	2592.99	2644.98	
90	PI/2 BPSK	1	1	22.19	22.19	22.15	
Channel				508002	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2540.01	2592.99	2649.99	
80	PI/2 BPSK	1	1	22.14	22.14	22.13	
Channel				507000	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2535	2592.99	2655	
70	PI/2 BPSK	1	1	22.12	22.15	22.11	
Channel				506004	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2530.02	2592.99	2659.98	
60	PI/2 BPSK	1	1	22.14	22.21	22.15	
Channel				505002	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2525.01	2592.99	2664.99	
50	PI/2 BPSK	1	1	22.17	22.19	22.11	
Channel				504000	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2520	2592.99	2670	
40	PI/2 BPSK	1	1	22.17	22.16	22.17	
Channel				503004	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2515.02	2592.99	2674.98	
30	PI/2 BPSK	1	1	22.14	22.18	22.14	
Channel				502500	518598	535500	Tune-up limit (dBm)
Frequency (MHz)				2512.5	2592.99	2677.50	
25	PI/2 BPSK	1	1	22.19	22.19	22.16	
Channel				502002	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2510.01	2592.99	2679.99	
20	PI/2 BPSK	1	1	22.12	22.17	22.17	
Channel				501504	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2507.52	2592.99	2682.48	
15	PI/2 BPSK	1	1	22.14	22.17	22.14	
Channel				501000	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2505	2592.99	2685	
10	PI/2 BPSK	1	1	22.18	22.16	22.14	



<FR1 n41_IC_Ant MIMO3_Sensor ON>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				510000	518598	528000	15.0
Frequency (MHz)				2550	2592.99	2640	
100	PI/2 BPSK	1	1	13.98	14.20	13.85	
100	PI/2 BPSK	1	137	13.52	13.76	13.37	15.0
100	PI/2 BPSK	1	271	13.47	13.74	13.39	
100	PI/2 BPSK	135	0	13.57	13.79	13.41	
100	PI/2 BPSK	135	69	13.65	13.89	13.53	15.0
100	PI/2 BPSK	135	138	13.41	13.68	13.28	15.0
100	PI/2 BPSK	270	0	13.59	13.84	13.48	
100	QPSK	1	1	13.94	14.19	13.79	
100	QPSK	1	137	13.50	13.75	13.36	15.0
100	QPSK	1	271	13.49	13.74	13.36	
100	QPSK	135	0	13.63	13.87	13.49	
100	QPSK	135	69	13.53	13.76	13.38	15.0
100	QPSK	135	138	13.44	13.68	13.32	15.0
100	QPSK	270	0	13.60	13.83	13.43	
100	16QAM	1	1	13.96	14.19	13.80	
100	64QAM	1	1	13.96	14.18	13.80	15.0
100	256QAM	1	1	13.92	14.19	13.83	15.0
Channel				509004	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2545.02	2592.99	2644.98	
90	PI/2 BPSK	1	1	13.88	14.15	13.75	
Channel				508002	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2540.01	2592.99	2649.99	
80	PI/2 BPSK	1	1	13.95	14.12	13.82	
Channel				507000	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2535	2592.99	2655	
70	PI/2 BPSK	1	1	13.88	14.17	13.78	
Channel				506004	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2530.02	2592.99	2659.98	
60	PI/2 BPSK	1	1	13.92	14.13	13.75	
Channel				505002	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2525.01	2592.99	2664.99	
50	PI/2 BPSK	1	1	13.92	14.16	13.80	
Channel				504000	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2520	2592.99	2670	
40	PI/2 BPSK	1	1	13.89	14.14	13.79	
Channel				503004	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2515.02	2592.99	2674.98	
30	PI/2 BPSK	1	1	13.92	14.16	13.76	
Channel				502500	518598	535500	Tune-up limit (dBm)
Frequency (MHz)				2512.5	2592.99	2677.50	
25	PI/2 BPSK	1	1	13.91	14.12	13.81	
Channel				502002	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2510.01	2592.99	2679.99	
20	PI/2 BPSK	1	1	13.91	14.15	13.78	
Channel				501504	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2507.52	2592.99	2682.48	
15	PI/2 BPSK	1	1	13.95	14.13	13.77	
Channel				501000	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2505	2592.99	2685	
10	PI/2 BPSK	1	1	13.94	14.12	13.79	



<FR1 n41_IC_Ant Aux_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				510000	518598	528000	10.3
Frequency (MHz)				2550	2592.99	2640	
100	PI/2 BPSK	1	1	9.31	9.33	9.13	
100	PI/2 BPSK	1	137	9.08	9.11	8.90	10.3
100	PI/2 BPSK	1	271	9.09	9.13	8.91	
100	PI/2 BPSK	135	0	9.13	9.15	8.92	
100	PI/2 BPSK	135	69	9.06	9.12	8.90	10.3
100	PI/2 BPSK	135	138	9.07	9.11	8.86	10.3
100	PI/2 BPSK	270	0	9.10	9.16	8.96	
100	QPSK	1	1	9.23	9.28	9.04	
100	QPSK	1	137	9.08	9.10	8.88	10.3
100	QPSK	1	271	9.08	9.13	8.92	
100	QPSK	135	0	9.12	9.15	8.94	
100	QPSK	135	69	8.99	9.06	8.86	10.3
100	QPSK	135	138	9.11	9.14	8.92	10.3
100	QPSK	270	0	9.10	9.17	8.96	
100	16QAM	1	1	9.29	9.31	9.11	
100	64QAM	1	1	9.27	9.32	9.12	10.3
100	256QAM	1	1	9.30	9.32	9.12	10.3
Channel				509004	518598	528996	10.3
Frequency (MHz)				2545.02	2592.99	2644.98	
90	PI/2 BPSK	1	1	9.24	9.23	9.06	
Channel				508002	518598	529998	10.3
Frequency (MHz)				2540.01	2592.99	2649.99	
80	PI/2 BPSK	1	1	9.26	9.23	9.09	
Channel				507000	518598	531000	10.3
Frequency (MHz)				2535	2592.99	2655	
70	PI/2 BPSK	1	1	9.25	9.28	9.08	
Channel				506004	518598	531996	10.3
Frequency (MHz)				2530.02	2592.99	2659.98	
60	PI/2 BPSK	1	1	9.27	9.30	9.05	
Channel				505002	518598	532998	10.3
Frequency (MHz)				2525.01	2592.99	2664.99	
50	PI/2 BPSK	1	1	9.24	9.25	9.03	
Channel				504000	518598	534000	10.3
Frequency (MHz)				2520	2592.99	2670	
40	PI/2 BPSK	1	1	9.21	9.24	9.03	
Channel				503004	518598	534996	10.3
Frequency (MHz)				2515.02	2592.99	2674.98	
30	PI/2 BPSK	1	1	9.24	9.28	9.10	
Channel				502500	518598	535500	10.3
Frequency (MHz)				2512.5	2592.99	2677.50	
25	PI/2 BPSK	1	1	9.27	9.26	9.08	
Channel				502002	518598	535998	10.3
Frequency (MHz)				2510.01	2592.99	2679.99	
20	PI/2 BPSK	1	1	9.26	9.29	9.03	
Channel				501504	518598	536496	10.3
Frequency (MHz)				2507.52	2592.99	2682.48	
15	PI/2 BPSK	1	1	9.21	9.27	9.06	
Channel				501000	518598	537000	10.3
Frequency (MHz)				2505	2592.99	2685	
10	PI/2 BPSK	1	1	9.24	9.29	9.07	



<FR1 n41_IC_HPUE_Ant Main_Sensor ON>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				510000	518598	528000	
Frequency (MHz)				2550	2592.99	2640	
100	PI/2 BPSK	1	1	18.44	18.79	18.63	19.5
100	PI/2 BPSK	1	137	18.15	18.55	18.35	
100	PI/2 BPSK	1	271	18.23	18.59	18.40	
100	PI/2 BPSK	135	0	18.20	18.59	18.40	19.5
100	PI/2 BPSK	135	69	18.27	18.65	18.45	19.5
100	PI/2 BPSK	135	138	18.09	18.49	18.32	19.5
100	PI/2 BPSK	270	0	18.22	18.61	18.40	
100	QPSK	1	1	18.39	18.78	18.61	19.5
100	QPSK	1	137	18.13	18.50	18.29	
100	QPSK	1	271	18.16	18.54	18.38	
100	QPSK	135	0	18.11	18.49	18.31	19.5
100	QPSK	135	69	18.26	18.61	18.41	19.5
100	QPSK	135	138	18.12	18.48	18.30	19.5
100	QPSK	270	0	18.25	18.60	18.39	
100	16QAM	1	1	18.32	18.70	18.51	19.5
100	64QAM	1	1	18.33	18.69	18.48	19.5
100	256QAM	1	1	18.36	18.74	18.58	19.5
Channel				509004	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2545.02	2592.99	2644.98	
90	PI/2 BPSK	1	1	18.39	18.65	18.55	19.5
Channel				508002	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2540.01	2592.99	2649.99	
80	PI/2 BPSK	1	1	18.35	18.71	18.53	19.5
Channel				507000	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2535	2592.99	2655	
70	PI/2 BPSK	1	1	18.29	18.71	18.54	19.5
Channel				506004	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2530.02	2592.99	2659.98	
60	PI/2 BPSK	1	1	18.34	18.66	18.53	19.5
Channel				505002	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2525.01	2592.99	2664.99	
50	PI/2 BPSK	1	1	18.38	18.65	18.55	19.5
Channel				504000	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2520	2592.99	2670	
40	PI/2 BPSK	1	1	18.30	18.70	18.55	19.5
Channel				503004	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2515.02	2592.99	2674.98	
30	PI/2 BPSK	1	1	18.38	18.71	18.52	19.5
Channel				502500	518598	535500	Tune-up limit (dBm)
Frequency (MHz)				2512.5	2592.99	2677.50	
25	PI/2 BPSK	1	1	18.36	18.63	18.58	19.5
Channel				502002	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2510.01	2592.99	2679.99	
20	PI/2 BPSK	1	1	18.34	18.74	18.60	19.5
Channel				501504	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2507.52	2592.99	2682.48	
15	PI/2 BPSK	1	1	18.33	18.74	18.60	19.5
Channel				501000	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2505	2592.99	2685	
10	PI/2 BPSK	1	1	18.39	18.71	18.47	19.5



FCC SAR TEST REPORT

Report No. : FA521318-03

<FR1 n41_IC_HPUE_Ant MIMO2_Sensor ON>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				510000	518598	528000	26.0
Frequency (MHz)				2550	2592.99	2640	
100	PI/2 BPSK	1	1	25.24	25.26	25.25	
100	PI/2 BPSK	1	137	24.73	24.79	24.76	26.0
100	PI/2 BPSK	1	271	24.37	24.39	24.36	
100	PI/2 BPSK	135	0	24.99	25.03	24.97	
100	PI/2 BPSK	135	69	24.79	24.83	24.78	26.0
100	PI/2 BPSK	135	138	24.49	24.55	24.50	
100	PI/2 BPSK	270	0	24.74	24.80	24.77	
100	QPSK	1	1	25.18	25.22	25.16	26.0
100	QPSK	1	137	24.67	24.74	24.72	
100	QPSK	1	271	24.33	24.35	24.34	
100	QPSK	135	0	24.89	24.95	24.94	26.0
100	QPSK	135	69	24.70	24.74	24.71	
100	QPSK	135	138	24.02	24.09	24.06	
100	QPSK	270	0	24.75	24.80	24.79	26.0
100	16QAM	1	1	25.10	25.15	25.09	
100	64QAM	1	1	23.36	24.37	24.38	
100	256QAM	1	1	22.34	22.39	22.42	22.5
Channel				509004	518598	528996	26.0
Frequency (MHz)				2545.02	2592.99	2644.98	
90	PI/2 BPSK	1	1	25.16	25.18	25.15	
Channel				508002	518598	529998	26.0
Frequency (MHz)				2540.01	2592.99	2649.99	
80	PI/2 BPSK	1	1	25.16	25.16	25.15	
Channel				507000	518598	531000	26.0
Frequency (MHz)				2535	2592.99	2655	
70	PI/2 BPSK	1	1	25.15	25.23	25.18	
Channel				506004	518598	531996	26.0
Frequency (MHz)				2530.02	2592.99	2659.98	
60	PI/2 BPSK	1	1	25.20	25.23	25.22	
Channel				505002	518598	532998	26.0
Frequency (MHz)				2525.01	2592.99	2664.99	
50	PI/2 BPSK	1	1	25.23	25.16	25.17	
Channel				504000	518598	534000	26.0
Frequency (MHz)				2520	2592.99	2670	
40	PI/2 BPSK	1	1	25.20	25.16	25.21	
Channel				503004	518598	534996	26.0
Frequency (MHz)				2515.02	2592.99	2674.98	
30	PI/2 BPSK	1	1	25.15	25.20	25.17	
Channel				502500	518598	535500	26.0
Frequency (MHz)				2512.5	2592.99	2677.50	
25	PI/2 BPSK	1	1	25.23	25.16	25.16	
Channel				502002	518598	535998	26.0
Frequency (MHz)				2510.01	2592.99	2679.99	
20	PI/2 BPSK	1	1	25.16	25.23	25.21	
Channel				501504	518598	536496	26.0
Frequency (MHz)				2507.52	2592.99	2682.48	
15	PI/2 BPSK	1	1	25.16	25.22	25.17	
Channel				501000	518598	537000	26.0
Frequency (MHz)				2505	2592.99	2685	
10	PI/2 BPSK	1	1	25.16	25.17	25.20	



<FR1 n41_IC_HPUE_Ant MIMO3_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				510000	518598	528000	18.0
Frequency (MHz)				2550	2592.99	2640	
100	PI/2 BPSK	1	1	16.94	17.18	16.88	
100	PI/2 BPSK	1	137	16.51	16.77	16.44	18.0
100	PI/2 BPSK	1	271	16.49	16.78	16.43	
100	PI/2 BPSK	135	0	16.55	16.81	16.47	
100	PI/2 BPSK	135	69	16.75	17.00	16.68	18.0
100	PI/2 BPSK	135	138	16.53	16.77	16.42	18.0
100	PI/2 BPSK	270	0	16.57	16.84	16.52	
100	QPSK	1	1	16.88	17.17	16.87	
100	QPSK	1	137	16.47	16.74	16.39	18.0
100	QPSK	1	271	16.46	16.75	16.44	
100	QPSK	135	0	16.58	16.84	16.49	
100	QPSK	135	69	16.66	16.95	16.60	18.0
100	QPSK	135	138	16.41	16.68	16.34	18.0
100	QPSK	270	0	16.56	16.83	16.48	
100	16QAM	1	1	16.83	17.10	16.77	
100	64QAM	1	1	16.75	17.02	16.71	18.0
100	256QAM	1	1	16.81	17.09	16.77	18.0
Channel				509004	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2545.02	2592.99	2644.98	
90	PI/2 BPSK	1	1	16.85	17.10	16.80	
Channel				508002	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2540.01	2592.99	2649.99	
80	PI/2 BPSK	1	1	16.91	17.14	16.85	
Channel				507000	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2535	2592.99	2655	
70	PI/2 BPSK	1	1	16.91	17.15	16.78	
Channel				506004	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2530.02	2592.99	2659.98	
60	PI/2 BPSK	1	1	16.91	17.10	16.83	
Channel				505002	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2525.01	2592.99	2664.99	
50	PI/2 BPSK	1	1	16.86	17.09	16.79	
Channel				504000	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2520	2592.99	2670	
40	PI/2 BPSK	1	1	16.87	17.14	16.81	
Channel				503004	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2515.02	2592.99	2674.98	
30	PI/2 BPSK	1	1	16.90	17.10	16.85	
Channel				502500	518598	535500	Tune-up limit (dBm)
Frequency (MHz)				2512.5	2592.99	2677.50	
25	PI/2 BPSK	1	1	16.85	17.08	16.78	
Channel				502002	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2510.01	2592.99	2679.99	
20	PI/2 BPSK	1	1	16.88	17.15	16.78	
Channel				501504	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2507.52	2592.99	2682.48	
15	PI/2 BPSK	1	1	16.88	17.15	16.84	
Channel				501000	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2505	2592.99	2685	
10	PI/2 BPSK	1	1	16.84	17.13	16.84	



<FR1 n41_IC_HPUE_Ant Aux_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				510000	518598	528000	13.3
Frequency (MHz)				2550	2592.99	2640	
100	PI/2 BPSK	1	1	12.24	12.35	12.10	
100	PI/2 BPSK	1	137	11.89	12.04	11.79	13.3
100	PI/2 BPSK	1	271	11.92	12.04	11.77	
100	PI/2 BPSK	135	0	11.97	12.12	11.82	
100	PI/2 BPSK	135	69	11.88	12.03	11.73	13.3
100	PI/2 BPSK	135	138	11.81	11.95	11.65	13.3
100	PI/2 BPSK	270	0	11.99	12.15	11.86	
100	QPSK	1	1	11.98	12.10	11.80	
100	QPSK	1	137	11.79	11.92	11.62	13.3
100	QPSK	1	271	11.84	11.98	11.73	
100	QPSK	135	0	12.02	12.15	11.88	
100	QPSK	135	69	11.76	11.89	11.59	13.3
100	QPSK	135	138	11.81	11.97	11.69	13.3
100	QPSK	270	0	11.95	12.11	11.84	
100	16QAM	1	1	12.18	12.30	12.03	
100	64QAM	1	1	12.14	12.26	11.96	13.3
100	256QAM	1	1	12.13	12.28	12.03	13.3
Channel				509004	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2545.02	2592.99	2644.98	
90	PI/2 BPSK	1	1	12.16	12.29	12.06	
Channel				508002	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2540.01	2592.99	2649.99	
80	PI/2 BPSK	1	1	12.16	12.32	12.06	
Channel				507000	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2535	2592.99	2655	
70	PI/2 BPSK	1	1	12.16	12.25	12.05	
Channel				506004	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2530.02	2592.99	2659.98	
60	PI/2 BPSK	1	1	12.21	12.28	12.07	
Channel				505002	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2525.01	2592.99	2664.99	
50	PI/2 BPSK	1	1	12.15	12.31	12.04	
Channel				504000	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2520	2592.99	2670	
40	PI/2 BPSK	1	1	12.16	12.30	12.03	
Channel				503004	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2515.02	2592.99	2674.98	
30	PI/2 BPSK	1	1	12.18	12.31	12.06	
Channel				502500	518598	535500	Tune-up limit (dBm)
Frequency (MHz)				2512.5	2592.99	2677.50	
25	PI/2 BPSK	1	1	12.22	12.30	12.02	
Channel				502002	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2510.01	2592.99	2679.99	
20	PI/2 BPSK	1	1	12.18	12.31	12.05	
Channel				501504	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2507.52	2592.99	2682.48	
15	PI/2 BPSK	1	1	12.21	12.25	12.02	
Channel				501000	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2505	2592.99	2685	
10	PI/2 BPSK	1	1	12.17	12.28	12.00	

**<FR1 n48_Ant Main_Sensor ON>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				638000	641666	645332	
Frequency (MHz)				3570	3624.99	3679.98	
40	PI/2 BPSK	1	1	18.09	18.16	18.11	18.9
40	PI/2 BPSK	1	53	18.05	18.15	18.12	
40	PI/2 BPSK	1	104	18.20	18.25	18.24	
40	PI/2 BPSK	50	0	18.13	18.21	18.14	18.9
40	PI/2 BPSK	50	28	18.15	18.24	18.18	18.9
40	PI/2 BPSK	50	56	18.12	18.23	18.18	18.9
40	PI/2 BPSK	100	0	18.13	18.22	18.16	
40	QPSK	1	1	18.10	18.21	18.17	18.9
40	QPSK	1	53	18.03	18.14	18.11	
40	QPSK	1	104	18.12	18.22	18.17	
40	QPSK	50	0	18.12	18.22	18.19	18.9
40	QPSK	50	28	18.13	18.21	18.15	18.9
40	QPSK	50	56	18.11	18.18	18.14	18.9
40	QPSK	100	0	18.11	18.20	18.17	
40	16QAM	1	1	18.06	18.13	18.10	18.9
40	64QAM	1	1	18.02	18.12	18.05	18.9
40	256QAM	1	1	18.09	18.16	18.13	18.9
Channel				637668	641666	645666	Tune-up limit (dBm)
Frequency (MHz)				3565.02	3624.99	3684.99	
30	PI/2 BPSK	1	1	17.97	18.02	18.01	18.9
Channel				637334	641666	646000	Tune-up limit (dBm)
Frequency (MHz)				3560.01	3624.99	3690	
20	PI/2 BPSK	1	1	18.05	18.07	18.01	18.9
Channel				637168	641666	646166	Tune-up limit (dBm)
Frequency (MHz)				3557.52	3624.99	3692.49	
15	PI/2 BPSK	1	1	17.96	18.12	18.05	18.9
Channel				637000	641666	646332	Tune-up limit (dBm)
Frequency (MHz)				3555	3624.99	3694.98	
10	PI/2 BPSK	1	1	17.99	18.13	18.06	18.9



<FR1 n48_Ant MIMO2_Sensor ON>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				638000	641666	645332	14.5
Frequency (MHz)				3570	3624.99	3679.98	
40	PI/2 BPSK	1	1	13.39	13.15	13.46	
40	PI/2 BPSK	1	53	13.51	13.31	13.55	14.5
40	PI/2 BPSK	1	104	13.53	13.32	13.57	
40	PI/2 BPSK	50	0	13.60	13.38	13.62	
40	PI/2 BPSK	50	28	13.57	13.37	13.60	14.5
40	PI/2 BPSK	50	56	13.56	13.33	13.58	14.5
40	PI/2 BPSK	100	0	13.58	13.37	13.61	
40	QPSK	1	1	13.44	13.25	13.51	
40	QPSK	1	53	13.44	13.26	13.50	14.5
40	QPSK	1	104	13.48	13.27	13.53	
40	QPSK	50	0	13.55	13.36	13.61	
40	QPSK	50	28	13.49	13.31	13.59	14.5
40	QPSK	50	56	13.52	13.31	13.56	14.5
40	QPSK	100	0	13.54	13.36	13.60	
40	16QAM	1	1	13.45	13.25	13.47	
40	64QAM	1	1	13.51	13.28	13.51	14.5
40	256QAM	1	1	13.52	13.30	13.52	14.0
Channel				637668	641666	645666	Tune-up limit (dBm)
Frequency (MHz)				3565.02	3624.99	3684.99	
30	PI/2 BPSK	1	1	13.36	13.09	13.32	
Channel				637334	641666	646000	Tune-up limit (dBm)
Frequency (MHz)				3560.01	3624.99	3690	
20	PI/2 BPSK	1	1	13.34	13.12	13.34	
Channel				637168	641666	646166	Tune-up limit (dBm)
Frequency (MHz)				3557.52	3624.99	3692.49	
15	PI/2 BPSK	1	1	13.30	13.12	13.35	
Channel				637000	641666	646332	Tune-up limit (dBm)
Frequency (MHz)				3555	3624.99	3694.98	
10	PI/2 BPSK	1	1	13.33	13.07	13.32	



<FR1 n77_Ant Main_Sensor ON>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	17.3
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	16.37	16.48	16.41	
100	PI/2 BPSK	1	137	16.27	16.38	16.31	17.3
100	PI/2 BPSK	1	271	16.47	16.53	16.51	
100	PI/2 BPSK	135	0	16.24	16.33	16.28	
100	PI/2 BPSK	135	69	16.33	16.43	16.36	17.3
100	PI/2 BPSK	135	138	16.33	16.39	16.36	17.3
100	PI/2 BPSK	270	0	16.29	16.36	16.30	
100	QPSK	1	1	16.41	16.49	16.43	
100	QPSK	1	137	16.32	16.38	16.33	17.3
100	QPSK	1	271	16.46	16.52	16.45	
100	QPSK	135	0	16.27	16.34	16.31	
100	QPSK	135	69	16.28	16.38	16.33	17.3
100	QPSK	135	138	16.28	16.37	16.31	17.3
100	QPSK	270	0	16.22	16.32	16.27	
100	16QAM	1	1	16.32	16.43	16.41	
100	64QAM	1	1	16.37	16.45	16.39	17.3
100	256QAM	1	1	16.32	16.41	16.35	17.3
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	16.26	16.35	16.27	17.3
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	16.22	16.34	16.27	17.3
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	16.30	16.37	16.28	17.3
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	16.26	16.40	16.28	17.3
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	16.27	16.36	16.37	17.3
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	16.34	16.33	16.34	17.3
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	16.35	16.42	16.32	17.3
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	16.30	16.34	16.32	17.3
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	16.24	16.29	16.25	17.3
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	16.29	16.42	16.37	17.3
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	16.27	16.36	16.28	17.3



<FR1 n77_Ant MIMO2_Sensor ON>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	14.2
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	12.60	13.13	12.96	
100	PI/2 BPSK	1	137	12.56	13.06	12.84	14.2
100	PI/2 BPSK	1	271	12.69	13.17	13.00	
100	PI/2 BPSK	135	0	12.50	13.03	12.82	
100	PI/2 BPSK	135	69	12.54	13.06	12.87	14.2
100	PI/2 BPSK	135	138	12.53	13.03	12.84	14.2
100	PI/2 BPSK	270	0	12.54	13.03	12.85	
100	QPSK	1	1	12.52	13.04	12.86	
100	QPSK	1	137	12.53	13.02	12.84	14.2
100	QPSK	1	271	12.64	13.16	12.94	
100	QPSK	135	0	12.52	13.04	12.83	
100	QPSK	135	69	12.47	12.95	12.74	14.2
100	QPSK	135	138	12.52	13.04	12.87	14.2
100	QPSK	270	0	12.56	13.05	12.85	
100	16QAM	1	1	12.60	13.09	12.90	
100	64QAM	1	1	12.55	13.07	12.88	14.2
100	256QAM	1	1	12.55	13.06	12.88	14.2
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	12.56	13.10	12.87	
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	12.49	13.06	12.88	
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	12.51	13.05	12.90	
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	12.56	13.05	12.91	
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	12.51	13.08	12.93	
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	12.50	13.09	12.87	
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	12.57	13.06	12.88	
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	12.51	13.01	12.92	
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	12.49	13.08	12.87	
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	12.57	13.06	12.92	
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	12.56	13.02	12.86	



<FR1 n77_Ant MIMO3_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	11.4
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	11.16	11.09	11.03	
100	PI/2 BPSK	1	137	11.06	11.04	10.97	11.4
100	PI/2 BPSK	1	271	11.12	11.08	11.01	
100	PI/2 BPSK	135	0	11.08	11.06	10.99	
100	PI/2 BPSK	135	69	11.10	11.03	10.92	11.4
100	PI/2 BPSK	135	138	11.04	11.00	10.89	11.4
100	PI/2 BPSK	270	0	11.06	11.03	10.94	
100	QPSK	1	1	11.14	11.07	10.96	
100	QPSK	1	137	11.09	11.05	10.99	11.4
100	QPSK	1	271	11.08	11.06	10.95	
100	QPSK	135	0	11.12	11.05	10.95	
100	QPSK	135	69	11.02	11.00	10.92	11.4
100	QPSK	135	138	10.98	10.96	10.90	11.4
100	QPSK	270	0	11.09	11.04	10.96	
100	16QAM	1	1	11.13	11.06	10.95	
100	64QAM	1	1	11.06	11.04	10.95	11.4
100	256QAM	1	1	11.08	11.05	10.95	11.4
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	11.08	11.06	10.98	
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	11.11	11.02	11.00	
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	11.09	10.99	10.95	
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	11.07	11.05	10.94	
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	11.07	11.06	10.97	
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	11.13	11.04	10.99	
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	11.12	11.02	10.96	
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	11.08	11.06	10.97	
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	11.11	11.01	10.95	
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	11.06	11.03	10.96	
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	11.07	10.99	10.94	



<FR1 n77_Ant Aux_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	10.3
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	9.56	9.70	9.64	
100	PI/2 BPSK	1	137	9.43	9.60	9.49	10.3
100	PI/2 BPSK	1	271	9.49	9.68	9.59	
100	PI/2 BPSK	135	0	9.34	9.53	9.44	
100	PI/2 BPSK	135	69	9.30	9.44	9.35	10.3
100	PI/2 BPSK	135	138	9.37	9.51	9.40	10.3
100	PI/2 BPSK	270	0	9.35	9.50	9.42	
100	QPSK	1	1	9.45	9.59	9.49	
100	QPSK	1	137	9.35	9.52	9.43	10.3
100	QPSK	1	271	9.52	9.69	9.62	
100	QPSK	135	0	9.30	9.48	9.39	
100	QPSK	135	69	9.28	9.44	9.38	10.3
100	QPSK	135	138	9.36	9.55	9.44	10.3
100	QPSK	270	0	9.36	9.50	9.44	
100	16QAM	1	1	9.49	9.63	9.56	
100	64QAM	1	1	9.43	9.62	9.53	10.3
100	256QAM	1	1	9.44	9.60	9.51	10.3
Channel				649668	656000	662332	10.3
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	9.51	9.60	9.61	
Channel				649334	656000	662666	10.3
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	9.49	9.61	9.56	
Channel				649000	656000	663000	10.3
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	9.50	9.62	9.55	
Channel				648668	656000	663332	10.3
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	9.51	9.61	9.58	
Channel				648334	656000	663666	10.3
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	9.52	9.64	9.55	
Channel				648000	656000	664000	10.3
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	9.50	9.60	9.57	
Channel				647668	656000	664332	10.3
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	9.52	9.66	9.54	
Channel				647500	656000	664500	10.3
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	9.51	9.61	9.59	
Channel				647334	656000	664666	10.3
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	9.48	9.62	9.60	
Channel				647168	656000	664832	10.3
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	9.48	9.63	9.57	
Channel				647000	656000	665000	10.3
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	9.52	9.67	9.58	



<FR1 n77_HPUE_Ant Main_Sensor ON>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	20.3
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	19.69	19.55	19.49	
100	PI/2 BPSK	1	137	19.62	19.50	19.43	20.3
100	PI/2 BPSK	1	271	19.81	19.65	19.61	
100	PI/2 BPSK	135	0	19.56	19.42	19.35	
100	PI/2 BPSK	135	69	19.68	19.55	19.50	20.3
100	PI/2 BPSK	135	138	19.60	19.49	19.42	
100	PI/2 BPSK	270	0	19.65	19.52	19.48	
100	QPSK	1	1	19.67	19.54	19.46	20.3
100	QPSK	1	137	19.60	19.47	19.43	
100	QPSK	1	271	19.75	19.61	19.57	
100	QPSK	135	0	19.53	19.39	19.34	20.3
100	QPSK	135	69	19.61	19.50	19.43	
100	QPSK	135	138	19.55	19.40	19.33	
100	QPSK	270	0	19.64	19.51	19.47	20.3
100	16QAM	1	1	19.61	19.47	19.38	
100	64QAM	1	1	19.56	19.45	19.36	
100	256QAM	1	1	19.58	19.46	19.39	20.3
Channel				649668	656000	662332	20.3
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	19.65	19.47	19.36	
Channel				649334	656000	662666	20.3
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	19.53	19.45	19.34	
Channel				649000	656000	663000	20.3
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	19.65	19.39	19.42	
Channel				648668	656000	663332	20.3
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	19.60	19.51	19.43	
Channel				648334	656000	663666	20.3
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	19.53	19.48	19.43	
Channel				648000	656000	664000	20.3
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	19.66	19.39	19.44	
Channel				647668	656000	664332	20.3
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	19.63	19.43	19.45	
Channel				647500	656000	664500	20.3
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	19.54	19.46	19.35	
Channel				647334	656000	664666	20.3
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	19.64	19.44	19.36	
Channel				647168	656000	664832	20.3
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	19.57	19.39	19.44	
Channel				647000	656000	665000	20.3
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	19.57	19.42	19.42	



<FR1 n77_HPUE_Ant MIMO2_Sensor ON>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	17.2
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	15.65	16.12	16.00	
100	PI/2 BPSK	1	137	15.58	16.06	15.90	17.2
100	PI/2 BPSK	1	271	15.73	16.16	16.04	
100	PI/2 BPSK	135	0	15.51	15.97	15.85	
100	PI/2 BPSK	135	69	15.57	16.04	15.87	17.2
100	PI/2 BPSK	135	138	15.58	16.02	15.88	17.2
100	PI/2 BPSK	270	0	15.58	16.06	15.89	
100	QPSK	1	1	15.69	16.13	16.01	
100	QPSK	1	137	15.60	16.03	15.88	17.2
100	QPSK	1	271	15.67	16.10	15.93	
100	QPSK	135	0	15.52	15.99	15.87	
100	QPSK	135	69	15.55	15.98	15.83	17.2
100	QPSK	135	138	15.55	15.99	15.85	17.2
100	QPSK	270	0	15.63	16.06	15.94	
100	16QAM	1	1	15.58	16.05	15.93	
100	64QAM	1	1	15.60	16.04	15.89	17.2
100	256QAM	1	1	15.58	16.06	15.90	17.2
Channel				649668	656000	662332	17.2
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	15.57	15.98	15.96	
Channel				649334	656000	662666	17.2
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	15.62	16.08	15.95	
Channel				649000	656000	663000	17.2
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	15.55	16.04	15.93	
Channel				648668	656000	663332	17.2
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	15.61	16.09	15.93	
Channel				648334	656000	663666	17.2
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	15.55	16.09	15.94	
Channel				648000	656000	664000	17.2
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	15.62	16.09	15.88	
Channel				647668	656000	664332	17.2
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	15.58	16.03	15.89	
Channel				647500	656000	664500	17.2
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	15.53	16.07	15.97	
Channel				647334	656000	664666	17.2
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	15.50	16.00	15.88	
Channel				647168	656000	664832	17.2
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	15.54	16.02	15.94	
Channel				647000	656000	665000	17.2
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	15.57	15.97	15.95	



<FR1 n77_HPUE_Ant MIMO3_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	14.4
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	14.09	13.89	13.86	
100	PI/2 BPSK	1	137	13.91	13.76	13.70	14.4
100	PI/2 BPSK	1	271	14.04	13.85	13.79	
100	PI/2 BPSK	135	0	13.89	13.74	13.66	
100	PI/2 BPSK	135	69	13.86	13.71	13.63	14.4
100	PI/2 BPSK	135	138	13.90	13.71	13.68	14.4
100	PI/2 BPSK	270	0	13.95	13.77	13.74	
100	QPSK	1	1	14.02	13.87	13.81	
100	QPSK	1	137	13.89	13.74	13.66	14.4
100	QPSK	1	271	14.01	13.85	13.80	
100	QPSK	135	0	13.96	13.76	13.73	
100	QPSK	135	69	13.87	13.68	13.62	14.4
100	QPSK	135	138	13.89	13.72	13.68	14.4
100	QPSK	270	0	13.93	13.77	13.74	
100	16QAM	1	1	13.99	13.82	13.77	
100	64QAM	1	1	13.99	13.81	13.73	14.4
100	256QAM	1	1	13.94	13.77	13.69	14.4
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	14.01	13.81	13.83	
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	14.04	13.85	13.76	
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	14.05	13.84	13.83	
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	14.01	13.83	13.80	
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	13.99	13.84	13.81	
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	14.00	13.82	13.76	
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	14.06	13.85	13.76	
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	14.03	13.82	13.83	
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	14.04	13.83	13.82	
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	13.99	13.81	13.77	
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	13.99	13.82	13.83	



<FR1 n77_HPUE_Ant Aux_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	13.3
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	12.51	12.62	12.60	
100	PI/2 BPSK	1	137	12.39	12.53	12.49	13.3
100	PI/2 BPSK	1	271	12.42	12.54	12.49	
100	PI/2 BPSK	135	0	12.34	12.50	12.46	
100	PI/2 BPSK	135	69	12.34	12.45	12.41	13.3
100	PI/2 BPSK	135	138	12.34	12.49	12.42	13.3
100	PI/2 BPSK	270	0	12.35	12.50	12.48	
100	QPSK	1	1	12.38	12.52	12.45	
100	QPSK	1	137	12.29	12.43	12.40	13.3
100	QPSK	1	271	12.45	12.57	12.54	
100	QPSK	135	0	12.27	12.41	12.36	
100	QPSK	135	69	12.33	12.44	12.39	13.3
100	QPSK	135	138	12.36	12.49	12.47	13.3
100	QPSK	270	0	12.33	12.48	12.43	
100	16QAM	1	1	12.40	12.54	12.49	
100	64QAM	1	1	12.41	12.55	12.51	13.3
100	256QAM	1	1	12.37	12.48	12.46	13.3
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	12.46	12.59	12.52	
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	12.43	12.54	12.57	
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	12.42	12.57	12.54	
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	12.43	12.53	12.55	
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	12.46	12.52	12.52	
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	12.44	12.55	12.57	
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	12.46	12.57	12.57	
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	12.45	12.59	12.55	
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	12.48	12.58	12.52	
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	12.43	12.53	12.55	
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	12.45	12.56	12.57	



<FR1 n77_Ant Main_Sensor ON>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		16.17		17.3
100	PI/2 BPSK	1	137		16.07		
100	PI/2 BPSK	1	271		16.22		
100	PI/2 BPSK	135	0		16.02		17.3
100	PI/2 BPSK	135	69		16.12		17.3
100	PI/2 BPSK	135	138		16.08		17.3
100	PI/2 BPSK	270	0		16.05		
100	QPSK	1	1		16.18		17.3
100	QPSK	1	137		16.07		
100	QPSK	1	271		16.21		
100	QPSK	135	0		16.03		17.3
100	QPSK	135	69		16.07		17.3
100	QPSK	135	138		16.06		17.3
100	QPSK	270	0		16.01		
100	16QAM	1	1		16.12		17.3
100	64QAM	1	1		16.14		17.3
100	256QAM	1	1		16.10		17.3
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	15.91	16.09	16.02	17.3
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	15.79	16.02	15.91	17.3
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	15.92	16.01	15.94	17.3
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	15.81	15.97	15.88	17.3
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	15.92	16.00	15.94	17.3
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	15.83	16.04	15.96	17.3
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	15.92	16.07	15.94	17.3
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	15.80	15.97	15.93	17.3
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	16.01	16.09	16.00	17.3
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	15.79	16.04	15.97	17.3
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	15.98	16.06	15.96	17.3



<FR1 n77_Ant MIMO2_Sensor ON>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		14.2
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		12.87		
100	PI/2 BPSK	1	137		12.80		14.2
100	PI/2 BPSK	1	271		12.91		
100	PI/2 BPSK	135	0		12.77		
100	PI/2 BPSK	135	69		12.80		14.2
100	PI/2 BPSK	135	138		12.78		14.2
100	PI/2 BPSK	270	0		12.77		
100	QPSK	1	1		12.78		
100	QPSK	1	137		12.76		14.2
100	QPSK	1	271		12.90		
100	QPSK	135	0		12.78		
100	QPSK	135	69		12.69		14.2
100	QPSK	135	138		12.78		14.2
100	QPSK	270	0		12.79		
100	16QAM	1	1		12.83		
100	64QAM	1	1		12.81		14.2
100	256QAM	1	1		12.80		14.2
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	12.52	12.74	12.66	
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	12.41	12.61	12.53	
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	12.44	12.76	12.70	
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	12.45	12.61	12.53	
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	12.53	12.76	12.66	
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	12.42	12.67	12.63	
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	12.50	12.81	12.72	
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	12.41	12.64	12.57	
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	12.47	12.75	12.74	
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	12.43	12.62	12.58	
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	12.53	12.76	12.68	



<FR1 n77_Ant MIMO3_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		10.56		11.4
100	PI/2 BPSK	1	137		10.51		
100	PI/2 BPSK	1	271		10.55		
100	PI/2 BPSK	135	0		10.53		11.4
100	PI/2 BPSK	135	69		10.50		11.4
100	PI/2 BPSK	135	138		10.47		11.4
100	PI/2 BPSK	270	0		10.50		
100	QPSK	1	1		10.54		11.4
100	QPSK	1	137		10.52		
100	QPSK	1	271		10.53		
100	QPSK	135	0		10.52		11.4
100	QPSK	135	69		10.47		11.4
100	QPSK	135	138		10.44		11.4
100	QPSK	270	0		10.51		
100	16QAM	1	1		10.53		11.4
100	64QAM	1	1		10.51		11.4
100	256QAM	1	1		10.52		11.4
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	10.46	10.51	10.47	11.4
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	10.40	10.41	10.39	11.4
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	10.37	10.44	10.44	11.4
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	10.36	10.46	10.38	11.4
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	10.36	10.43	10.41	11.4
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	10.36	10.47	10.43	11.4
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	10.38	10.48	10.38	11.4
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	10.40	10.48	10.37	11.4
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	10.39	10.42	10.42	11.4
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	10.36	10.45	10.42	11.4
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	10.40	10.46	10.44	11.4



<FR1 n77_Ant Aux_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		10.3
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		9.85		
100	PI/2 BPSK	1	137		9.74		10.3
100	PI/2 BPSK	1	271		9.82		
100	PI/2 BPSK	135	0		9.75		
100	PI/2 BPSK	135	69		9.72		10.3
100	PI/2 BPSK	135	138		9.73		10.3
100	PI/2 BPSK	270	0		9.66		
100	QPSK	1	1		9.80		
100	QPSK	1	137		9.69		10.3
100	QPSK	1	271		9.82		
100	QPSK	135	0		9.69		
100	QPSK	135	69		9.67		10.3
100	QPSK	135	138		9.71		10.3
100	QPSK	270	0		9.76		
100	16QAM	1	1		9.80		
100	64QAM	1	1		9.81		10.3
100	256QAM	1	1		9.79		10.3
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	9.77	9.81	9.68	
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	9.74	9.76	9.63	
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	9.70	9.71	9.61	
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	9.71	9.76	9.62	
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	9.69	9.78	9.60	
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	9.73	9.72	9.60	
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	9.72	9.75	9.58	
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	9.70	9.74	9.60	
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	9.73	9.72	9.65	
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	9.73	9.77	9.63	
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	9.67	9.71	9.65	

**<FR1 n77_HPUE_Ant Main_Sensor ON>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		20.3
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		19.42		
100	PI/2 BPSK	1	137		19.37		20.3
100	PI/2 BPSK	1	271		19.52		
100	PI/2 BPSK	135	0		19.29		
100	PI/2 BPSK	135	69		19.42		20.3
100	PI/2 BPSK	135	138		19.36		
100	PI/2 BPSK	270	0		19.39		
100	QPSK	1	1		19.41		20.3
100	QPSK	1	137		19.34		
100	QPSK	1	271		19.48		
100	QPSK	135	0		19.26		20.3
100	QPSK	135	69		19.37		
100	QPSK	135	138		19.27		
100	QPSK	270	0		19.38		20.3
100	16QAM	1	1		19.34		
100	64QAM	1	1		19.32		
100	256QAM	1	1		19.33		20.3
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	19.26	19.09	19.00	
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	19.18	18.96	18.96	
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	19.36	19.19	19.06	
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	19.19	19.01	18.97	
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	19.26	19.15	18.96	
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	19.14	19.06	18.86	
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	19.34	19.07	18.98	
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	19.19	19.01	18.85	
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	19.35	19.13	19.01	
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	19.22	18.98	18.97	
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	19.35	19.17	19.00	



<FR1 n77_HPUE_Ant MIMO2_Sensor ON>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		16.05		
100	PI/2 BPSK	1	137		15.99		17.2
100	PI/2 BPSK	1	271		16.09		
100	PI/2 BPSK	135	0		15.90		
100	PI/2 BPSK	135	69		15.97		17.2
100	PI/2 BPSK	135	138		15.95		17.2
100	PI/2 BPSK	270	0		15.99		
100	QPSK	1	1		16.06		
100	QPSK	1	137		15.96		17.2
100	QPSK	1	271		16.03		
100	QPSK	135	0		15.92		
100	QPSK	135	69		15.91		17.2
100	QPSK	135	138		15.92		17.2
100	QPSK	270	0		15.99		
100	16QAM	1	1		15.98		
100	64QAM	1	1		15.97		17.2
100	256QAM	1	1		15.99		17.2
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	15.53	15.95	15.93	
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	15.41	15.84	15.84	
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	15.52	15.95	15.82	
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	15.43	15.80	15.78	
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	15.42	16.02	15.85	
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	15.50	15.82	15.80	
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	15.44	15.93	15.89	
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	15.47	15.82	15.85	
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	15.47	16.02	15.93	
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	15.39	15.92	15.83	
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	15.54	16.02	15.81	



<FR1 n77_HPUE_Ant MIMO3_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		13.58		
100	PI/2 BPSK	1	137		13.45		14.4
100	PI/2 BPSK	1	271		13.54		
100	PI/2 BPSK	135	0		13.43		
100	PI/2 BPSK	135	69		13.40		14.4
100	PI/2 BPSK	135	138		13.40		14.4
100	PI/2 BPSK	270	0		13.46		
100	QPSK	1	1		13.56		
100	QPSK	1	137		13.43		14.4
100	QPSK	1	271		13.54		
100	QPSK	135	0		13.45		
100	QPSK	135	69		13.37		14.4
100	QPSK	135	138		13.41		14.4
100	QPSK	270	0		13.46		
100	16QAM	1	1		13.51		
100	64QAM	1	1		13.50		14.4
100	256QAM	1	1		13.46		14.4
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	13.50	13.55	13.47	
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	13.41	13.47	13.40	
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	13.46	13.45	13.42	
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	13.40	13.48	13.37	
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	13.41	13.51	13.43	
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	13.43	13.52	13.38	
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	13.46	13.52	13.38	
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	13.46	13.49	13.37	
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	13.43	13.49	13.39	
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1				
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	13.42	13.47	13.37	



<FR1 n77_HPUE_Ant Aux_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		13.05		13.3
100	PI/2 BPSK	1	137		12.96		
100	PI/2 BPSK	1	271		12.97		
100	PI/2 BPSK	135	0		12.93		13.3
100	PI/2 BPSK	135	69		12.87		13.3
100	PI/2 BPSK	135	138		12.92		13.3
100	PI/2 BPSK	270	0		12.93		
100	QPSK	1	1		12.95		13.3
100	QPSK	1	137		12.85		
100	QPSK	1	271		13.00		
100	QPSK	135	0		12.83		13.3
100	QPSK	135	69		12.86		13.3
100	QPSK	135	138		12.92		13.3
100	QPSK	270	0		12.91		
100	16QAM	1	1		12.97		13.3
100	64QAM	1	1		12.98		13.3
100	256QAM	1	1		12.91		13.3
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	12.97	13.01	12.85	13.3
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	12.93	12.94	12.75	13.3
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	12.94	12.96	12.79	13.3
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	12.90	12.94	12.76	13.3
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	12.93	12.96	12.77	13.3
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	12.89	12.92	12.77	13.3
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	12.88	12.92	12.79	13.3
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	12.88	12.96	12.78	13.3
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	12.89	12.92	12.80	13.3
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	12.94	12.94	12.81	13.3
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	12.92	12.98	12.77	13.3



<FR1 n78_Ant Main_Sensor ON>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		16.72		17.3
100	PI/2 BPSK	1	137		16.62		
100	PI/2 BPSK	1	271		16.77		
100	PI/2 BPSK	135	0		16.57		17.3
100	PI/2 BPSK	135	69		16.67		17.3
100	PI/2 BPSK	135	138		16.63		17.3
100	PI/2 BPSK	270	0		16.60		
100	QPSK	1	1		16.73		17.3
100	QPSK	1	137		16.62		
100	QPSK	1	271		16.76		
100	QPSK	135	0		16.58		17.3
100	QPSK	135	69		16.62		17.3
100	QPSK	135	138		16.61		17.3
100	QPSK	270	0		16.56		
100	16QAM	1	1		16.67		17.3
100	64QAM	1	1		16.69		17.3
100	256QAM	1	1		16.65		17.3
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	16.56	16.58	16.50	17.3
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	16.54	16.65	16.52	17.3
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	16.49	16.48	16.45	17.3
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	16.48	16.60	16.50	17.3
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	16.43	16.52	16.37	17.3
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	16.51	16.66	16.46	17.3
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	16.41	16.43	16.41	17.3
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	16.49	16.61	16.47	17.3
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	16.37	16.44	16.32	17.3
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	16.51	16.64	16.48	17.3
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	16.51	16.51	16.36	17.3



<FR1 n78_Ant MIMO2_Sensor ON>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		12.70		14.2
100	PI/2 BPSK	1	137		12.62		
100	PI/2 BPSK	1	271		12.76		
100	PI/2 BPSK	135	0		12.61		14.2
100	PI/2 BPSK	135	69		12.62		14.2
100	PI/2 BPSK	135	138		12.62		14.2
100	PI/2 BPSK	270	0		12.59		
100	QPSK	1	1		12.61		14.2
100	QPSK	1	137		12.59		
100	QPSK	1	271		12.75		
100	QPSK	135	0		12.62		14.2
100	QPSK	135	69		12.49		14.2
100	QPSK	135	138		12.59		14.2
100	QPSK	270	0		12.64		
100	16QAM	1	1		12.65		14.2
100	64QAM	1	1		12.64		14.2
100	256QAM	1	1		12.60		14.2
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	12.37	12.61	12.49	14.2
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	12.32	12.58	12.40	14.2
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	12.44	12.62	12.59	14.2
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	12.41	12.62	12.51	14.2
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	12.40	12.59	12.54	14.2
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	12.44	12.60	12.51	14.2
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	12.36	12.64	12.53	14.2
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	12.44	12.67	12.52	14.2
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	12.44	12.66	12.53	14.2
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	12.40	12.65	12.56	14.2
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	12.40	12.65	12.53	14.2



<FR1 n78_Ant MIMO3_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		11.01		11.4
100	PI/2 BPSK	1	137		10.95		
100	PI/2 BPSK	1	271		10.96		
100	PI/2 BPSK	135	0		10.96		11.4
100	PI/2 BPSK	135	69		10.94		11.4
100	PI/2 BPSK	135	138		10.88		11.4
100	PI/2 BPSK	270	0		10.94		
100	QPSK	1	1		10.94		11.4
100	QPSK	1	137		10.95		
100	QPSK	1	271		10.93		
100	QPSK	135	0		10.96		11.4
100	QPSK	135	69		10.90		11.4
100	QPSK	135	138		10.87		11.4
100	QPSK	270	0		10.93		
100	16QAM	1	1		10.95		11.4
100	64QAM	1	1		10.93		11.4
100	256QAM	1	1		10.94		11.4
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	10.91	10.99	10.95	11.4
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	10.85	10.90	10.91	11.4
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	10.82	10.90	10.92	11.4
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	10.85	10.95	10.88	11.4
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	10.82	10.96	10.90	11.4
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	10.88	10.94	10.92	11.4
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	10.84	10.92	10.87	11.4
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	10.85	10.93	10.89	11.4
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	10.81	10.94	10.86	11.4
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	10.87	10.93	10.87	11.4
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	10.82	10.94	10.87	11.4



<FR1 n78_Ant Aux_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		9.81		10.3
100	PI/2 BPSK	1	137		9.69		
100	PI/2 BPSK	1	271		9.74		
100	PI/2 BPSK	135	0		9.60		10.3
100	PI/2 BPSK	135	69		9.51		10.3
100	PI/2 BPSK	135	138		9.62		10.3
100	PI/2 BPSK	270	0		9.59		
100	QPSK	1	1		9.70		10.3
100	QPSK	1	137		9.58		
100	QPSK	1	271		9.75		
100	QPSK	135	0		9.55		10.3
100	QPSK	135	69		9.56		10.3
100	QPSK	135	138		9.65		10.3
100	QPSK	270	0		9.59		
100	16QAM	1	1		9.69		10.3
100	64QAM	1	1		9.74		10.3
100	256QAM	1	1		9.71		10.3
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	9.71	9.75	9.65	10.3
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	9.61	9.74	9.55	10.3
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	9.67	9.70	9.56	10.3
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	9.62	9.70	9.55	10.3
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	9.63	9.69	9.60	10.3
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	9.68	9.71	9.56	10.3
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	9.65	9.75	9.62	10.3
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	9.68	9.76	9.56	10.3
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	9.64	9.76	9.60	10.3
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	9.62	9.71	9.60	10.3
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	9.64	9.70	9.59	10.3



<FR1 n78_HPUE_Ant Main_Sensor ON>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		19.77		20.3
100	PI/2 BPSK	1	137		19.72		
100	PI/2 BPSK	1	271		19.87		
100	PI/2 BPSK	135	0		19.64		20.3
100	PI/2 BPSK	135	69		19.77		20.3
100	PI/2 BPSK	135	138		19.71		20.3
100	PI/2 BPSK	270	0		19.74		
100	QPSK	1	1		19.76		20.3
100	QPSK	1	137		19.69		
100	QPSK	1	271		19.83		
100	QPSK	135	0		19.61		20.3
100	QPSK	135	69		19.72		20.3
100	QPSK	135	138		19.62		20.3
100	QPSK	270	0		19.73		
100	16QAM	1	1		19.69		20.3
100	64QAM	1	1		19.67		20.3
100	256QAM	1	1		19.68		20.3
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	19.54	19.72	19.48	20.3
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	19.40	19.67	19.36	20.3
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	19.59	19.70	19.52	20.3
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	19.41	19.59	19.36	20.3
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	19.56	19.69	19.56	20.3
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	19.56	19.68	19.52	20.3
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	19.44	19.60	19.33	20.3
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	19.53	19.66	19.47	20.3
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	19.40	19.62	19.40	20.3
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	19.59	19.72	19.52	20.3
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	19.57	19.72	19.52	20.3



<FR1 n78_HPUE_Ant MIMO2_Sensor ON>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		15.81		17.2
100	PI/2 BPSK	1	137		15.73		
100	PI/2 BPSK	1	271		15.92		
100	PI/2 BPSK	135	0		15.79		17.2
100	PI/2 BPSK	135	69		15.82		17.2
100	PI/2 BPSK	135	138		15.73		17.2
100	PI/2 BPSK	270	0		15.76		
100	QPSK	1	1		15.82		17.2
100	QPSK	1	137		15.73		
100	QPSK	1	271		15.81		
100	QPSK	135	0		15.76		17.2
100	QPSK	135	69		15.69		17.2
100	QPSK	135	138		15.75		17.2
100	QPSK	270	0		15.77		
100	16QAM	1	1		15.73		17.2
100	64QAM	1	1		15.74		17.2
100	256QAM	1	1		15.73		17.2
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	15.64	15.72	15.60	17.2
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	15.55	15.63	15.52	17.2
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	15.60	15.71	15.65	17.2
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	15.57	15.67	15.55	17.2
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	15.60	15.72	15.58	17.2
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	15.51	15.65	15.47	17.2
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	15.66	15.76	15.59	17.2
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	15.53	15.69	15.57	17.2
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	15.60	15.76	15.61	17.2
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	15.51	15.66	15.52	17.2
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	15.61	15.77	15.57	17.2



<FR1 n78_HPUE_Ant MIMO3_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		14.04		14.4
100	PI/2 BPSK	1	137		13.91		
100	PI/2 BPSK	1	271		13.99		
100	PI/2 BPSK	135	0		13.88		14.4
100	PI/2 BPSK	135	69		13.84		14.4
100	PI/2 BPSK	135	138		13.86		14.4
100	PI/2 BPSK	270	0		13.91		
100	QPSK	1	1		13.99		14.4
100	QPSK	1	137		13.92		
100	QPSK	1	271		13.88		
100	QPSK	135	0		13.89		14.4
100	QPSK	135	69		13.82		14.4
100	QPSK	135	138		13.90		14.4
100	QPSK	270	0		13.92		
100	16QAM	1	1		14.00		14.4
100	64QAM	1	1		13.94		14.4
100	256QAM	1	1		13.90		14.4
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	13.92	14.02	13.99	14.4
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	13.83	13.93	13.89	14.4
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	13.82	13.92	13.94	14.4
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	13.84	13.99	13.89	14.4
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	13.85	13.97	13.89	14.4
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	13.89	13.99	13.92	14.4
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	13.89	13.94	13.91	14.4
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	13.82	13.92	13.90	14.4
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	13.83	13.99	13.94	14.4
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	13.85	13.95	13.96	14.4
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	13.89	13.96	13.92	14.4



<FR1 n78_HPUE_Ant Aux_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		12.79		13.3
100	PI/2 BPSK	1	137		12.69		
100	PI/2 BPSK	1	271		12.68		
100	PI/2 BPSK	135	0		12.65		13.3
100	PI/2 BPSK	135	69		12.54		13.3
100	PI/2 BPSK	135	138		12.63		13.3
100	PI/2 BPSK	270	0		12.60		
100	QPSK	1	1		12.63		13.3
100	QPSK	1	137		12.53		
100	QPSK	1	271		12.65		
100	QPSK	135	0		12.56		13.3
100	QPSK	135	69		12.56		13.3
100	QPSK	135	138		12.63		13.3
100	QPSK	270	0		12.61		
100	16QAM	1	1		12.68		13.3
100	64QAM	1	1		12.66		13.3
100	256QAM	1	1		12.61		13.3
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	12.72	12.78	12.69	13.3
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	12.68	12.71	12.65	13.3
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	12.63	12.73	12.64	13.3
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	12.65	12.70	12.61	13.3
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	12.69	12.71	12.62	13.3
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	12.69	12.75	12.65	13.3
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	12.64	12.70	12.62	13.3
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	12.66	12.68	12.64	13.3
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	12.69	12.68	12.66	13.3
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	12.69	12.74	12.66	13.3
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	12.68	12.70	12.60	13.3



<FR1 n78_Ant Main_Sensor ON>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		16.35		17.3
100	PI/2 BPSK	1	137		16.25		
100	PI/2 BPSK	1	271		16.40		
100	PI/2 BPSK	135	0		16.20		17.3
100	PI/2 BPSK	135	69		16.30		17.3
100	PI/2 BPSK	135	138		16.26		17.3
100	PI/2 BPSK	270	0		16.23		
100	QPSK	1	1		16.36		17.3
100	QPSK	1	137		16.25		
100	QPSK	1	271		16.39		
100	QPSK	135	0		16.21		17.3
100	QPSK	135	69		16.25		17.3
100	QPSK	135	138		16.24		17.3
100	QPSK	270	0		16.19		
100	16QAM	1	1		16.30		17.3
100	64QAM	1	1		16.32		17.3
100	256QAM	1	1		16.28		17.3
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	16.15	16.28	16.06	17.3
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	16.13	16.29	16.06	17.3
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	16.20	16.23	16.10	17.3
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	16.10	16.21	15.96	17.3
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	16.11	16.23	16.06	17.3
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	16.07	16.14	15.94	17.3
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	16.17	16.23	16.08	17.3
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	16.01	16.23	15.94	17.3
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	16.15	16.23	16.14	17.3
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	16.04	16.14	15.95	17.3
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	16.18	16.20	16.08	17.3



<FR1 n78_Ant MIMO2_Sensor ON>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		14.2
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		12.60		
100	PI/2 BPSK	1	137		12.56		14.2
100	PI/2 BPSK	1	271		12.67		
100	PI/2 BPSK	135	0		12.49		
100	PI/2 BPSK	135	69		12.51		14.2
100	PI/2 BPSK	135	138		12.53		14.2
100	PI/2 BPSK	270	0		12.51		
100	QPSK	1	1		12.52		
100	QPSK	1	137		12.50		14.2
100	QPSK	1	271		12.63		
100	QPSK	135	0		12.50		
100	QPSK	135	69		12.44		14.2
100	QPSK	135	138		12.53		14.2
100	QPSK	270	0		12.51		
100	16QAM	1	1		12.56		
100	64QAM	1	1		12.55		14.2
100	256QAM	1	1		12.52		14.2
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	12.27	12.49	12.43	
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	12.37	12.39	12.36	
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	12.28	12.45	12.36	
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	12.21	12.45	12.29	
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	12.31	12.52	12.46	
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	12.23	12.36	12.29	
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	12.32	12.47	12.39	
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	12.31	12.43	12.32	
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	12.21	12.58	12.39	
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	12.35	12.38	12.38	
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	12.30	12.48	12.44	



<FR1 n78_Ant MIMO3_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		11.00		11.4
100	PI/2 BPSK	1	137		10.91		
100	PI/2 BPSK	1	271		10.92		
100	PI/2 BPSK	135	0		10.91		11.4
100	PI/2 BPSK	135	69		10.90		11.4
100	PI/2 BPSK	135	138		10.83		11.4
100	PI/2 BPSK	270	0		10.88		
100	QPSK	1	1		10.91		11.4
100	QPSK	1	137		10.93		
100	QPSK	1	271		10.88		
100	QPSK	135	0		10.93		11.4
100	QPSK	135	69		10.86		11.4
100	QPSK	135	138		10.81		11.4
100	QPSK	270	0		10.90		
100	16QAM	1	1		10.89		11.4
100	64QAM	1	1		10.91		11.4
100	256QAM	1	1		10.93		11.4
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	10.94	10.97	10.89	11.4
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	10.89	10.88	10.79	11.4
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	10.85	10.94	10.84	11.4
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	10.87	10.94	10.85	11.4
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	10.89	10.88	10.83	11.4
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	10.84	10.92	10.79	11.4
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	10.89	10.92	10.79	11.4
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	10.84	10.90	10.86	11.4
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	10.91	10.92	10.81	11.4
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	10.90	10.92	10.85	11.4
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	10.90	10.88	10.85	11.4



<FR1 n78_Ant Aux_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		9.77		10.3
100	PI/2 BPSK	1	137		9.68		
100	PI/2 BPSK	1	271		9.71		
100	PI/2 BPSK	135	0		9.58		10.3
100	PI/2 BPSK	135	69		9.47		10.3
100	PI/2 BPSK	135	138		9.57		10.3
100	PI/2 BPSK	270	0		9.52		
100	QPSK	1	1		9.66		10.3
100	QPSK	1	137		9.56		
100	QPSK	1	271		9.74		
100	QPSK	135	0		9.54		10.3
100	QPSK	135	69		9.51		10.3
100	QPSK	135	138		9.62		10.3
100	QPSK	270	0		9.57		
100	16QAM	1	1		9.67		10.3
100	64QAM	1	1		9.68		10.3
100	256QAM	1	1		9.63		10.3
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	9.61	9.75	9.69	10.3
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	9.54	9.65	9.60	10.3
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	9.58	9.67	9.59	10.3
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	9.56	9.72	9.60	10.3
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	9.57	9.66	9.61	10.3
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	9.53	9.71	9.65	10.3
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	9.52	9.67	9.59	10.3
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	9.57	9.68	9.63	10.3
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	9.52	9.66	9.66	10.3
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	9.55	9.72	9.62	10.3
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	9.51	9.70	9.60	10.3

**<FR1 n78_HPUE_Ant Main_Sensor ON>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		20.3
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		19.42		
100	PI/2 BPSK	1	137		19.37		20.3
100	PI/2 BPSK	1	271		19.52		
100	PI/2 BPSK	135	0		19.29		
100	PI/2 BPSK	135	69		19.42		20.3
100	PI/2 BPSK	135	138		19.36		
100	PI/2 BPSK	270	0		19.39		
100	QPSK	1	1		19.41		20.3
100	QPSK	1	137		19.34		
100	QPSK	1	271		19.48		
100	QPSK	135	0		19.26		20.3
100	QPSK	135	69		19.37		20.3
100	QPSK	135	138		19.27		20.3
100	QPSK	270	0		19.38		
100	16QAM	1	1		19.34		
100	64QAM	1	1		19.32		20.3
100	256QAM	1	1		19.33		20.3
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	19.29	19.35	19.19	20.3
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	19.27	19.36	19.19	20.3
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	19.20	19.28	19.09	20.3
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	19.28	19.35	19.20	20.3
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	19.23	19.28	19.12	20.3
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	19.31	19.34	19.22	20.3
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	19.21	19.27	19.12	20.3
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	19.32	19.34	19.23	20.3
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	19.23	19.25	19.12	20.3
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	19.32	19.32	19.21	20.3
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	19.22	19.29	19.09	20.3



<FR1 n78_HPUE_Ant MIMO2_Sensor ON>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		17.2
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		15.79		
100	PI/2 BPSK	1	137		15.71		17.2
100	PI/2 BPSK	1	271		15.90		
100	PI/2 BPSK	135	0		15.78		
100	PI/2 BPSK	135	69		15.78		17.2
100	PI/2 BPSK	135	138		15.73		17.2
100	PI/2 BPSK	270	0		15.76		
100	QPSK	1	1		15.82		
100	QPSK	1	137		15.67		17.2
100	QPSK	1	271		15.83		
100	QPSK	135	0		15.77		
100	QPSK	135	69		15.65		17.2
100	QPSK	135	138		15.74		17.2
100	QPSK	270	0		15.74		
100	16QAM	1	1		15.69		
100	64QAM	1	1		15.72		17.2
100	256QAM	1	1		15.73		17.2
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	15.57	15.68	15.54	
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	15.61	15.58	15.51	
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	15.51	15.68	15.55	
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	15.53	15.57	15.47	
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	15.53	15.58	15.51	
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	15.43	15.61	15.40	
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	15.50	15.59	15.52	
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	15.49	15.65	15.49	
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	15.52	15.69	15.44	
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	15.42	15.60	15.49	
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	15.60	15.62	15.50	



<FR1 n78_HPUE_Ant MIMO3_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		14.4
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		13.54		
100	PI/2 BPSK	1	137		13.44		14.4
100	PI/2 BPSK	1	271		13.51		
100	PI/2 BPSK	135	0		13.40		
100	PI/2 BPSK	135	69		13.35		14.4
100	PI/2 BPSK	135	138		13.38		14.4
100	PI/2 BPSK	270	0		13.43		
100	QPSK	1	1		13.48		
100	QPSK	1	137		13.39		14.4
100	QPSK	1	271		13.42		
100	QPSK	135	0		13.40		
100	QPSK	135	69		13.32		14.4
100	QPSK	135	138		13.40		14.4
100	QPSK	270	0		13.45		
100	16QAM	1	1		13.49		
100	64QAM	1	1		13.48		14.4
100	256QAM	1	1		13.41		14.4
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	13.46	13.49	13.45	
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	13.38	13.45	13.35	
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	13.39	13.39	13.36	
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	13.39	13.42	13.41	
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	13.39	13.45	13.37	
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	13.43	13.40	13.42	
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	13.39	13.42	13.39	
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	13.39	13.40	13.36	
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	13.39	13.41	13.35	
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	13.37	13.41	13.42	
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	13.41	13.45	13.35	



<FR1 n78_HPUE_Ant Aux_Sensor OFF>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		12.81		13.3
100	PI/2 BPSK	1	137		12.66		
100	PI/2 BPSK	1	271		12.69		
100	PI/2 BPSK	135	0		12.69		13.3
100	PI/2 BPSK	135	69		12.58		13.3
100	PI/2 BPSK	135	138		12.65		13.3
100	PI/2 BPSK	270	0		12.64		
100	QPSK	1	1		12.63		13.3
100	QPSK	1	137		12.56		
100	QPSK	1	271		12.71		
100	QPSK	135	0		12.56		13.3
100	QPSK	135	69		12.57		13.3
100	QPSK	135	138		12.62		13.3
100	QPSK	270	0		12.62		
100	16QAM	1	1		12.71		13.3
100	64QAM	1	1		12.70		13.3
100	256QAM	1	1		12.60		13.3
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	12.67	12.78	12.71	13.3
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	12.63	12.70	12.68	13.3
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	12.59	12.75	12.68	13.3
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	12.62	12.70	12.68	13.3
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	12.64	12.72	12.63	13.3
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	12.61	12.74	12.61	13.3
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	12.58	12.68	12.62	13.3
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	12.63	12.70	12.67	13.3
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	12.64	12.70	12.61	13.3
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	12.58	12.71	12.61	13.3
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	12.61	12.71	12.66	13.3