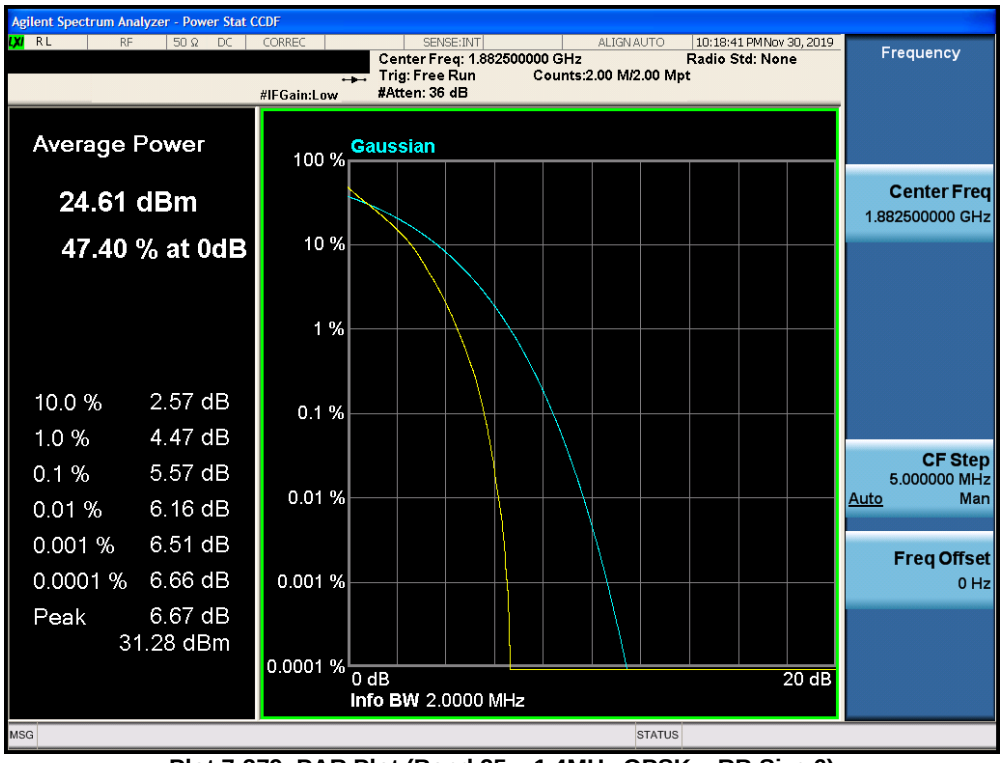
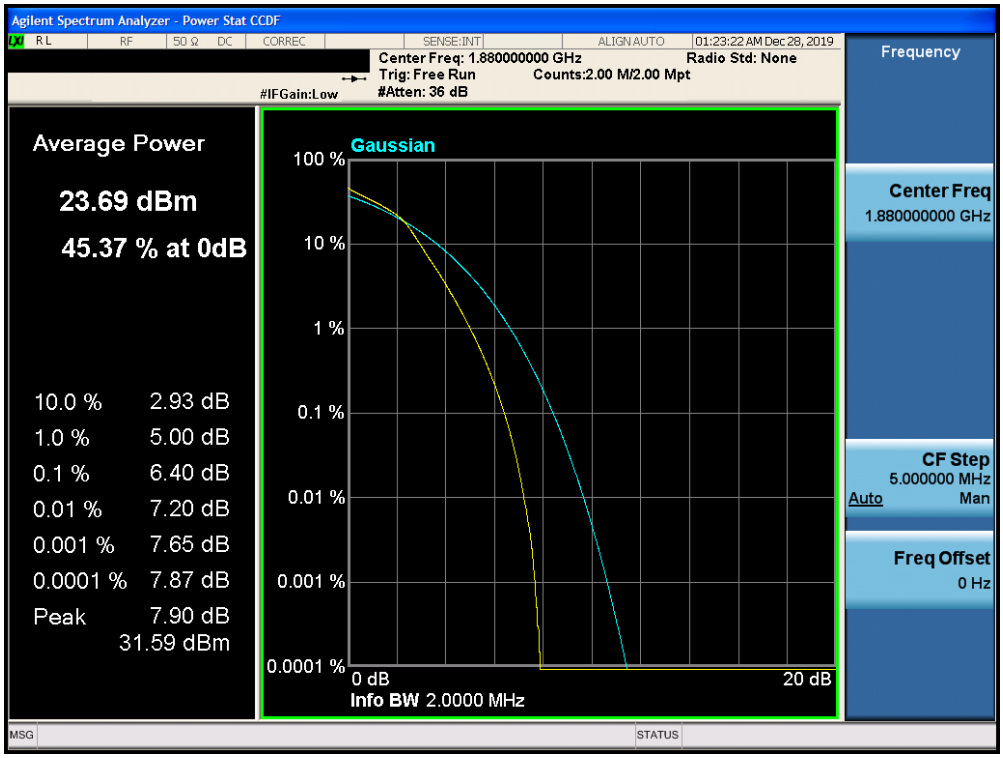
Band 25



Plot 7-379. PAR Plot (Band 25 – 1.4MHz QPSK – RB Size 6)



Plot 7-380. PAR Plot (Band 25 – 1.4MHz 16-QAM – RB Size 6)

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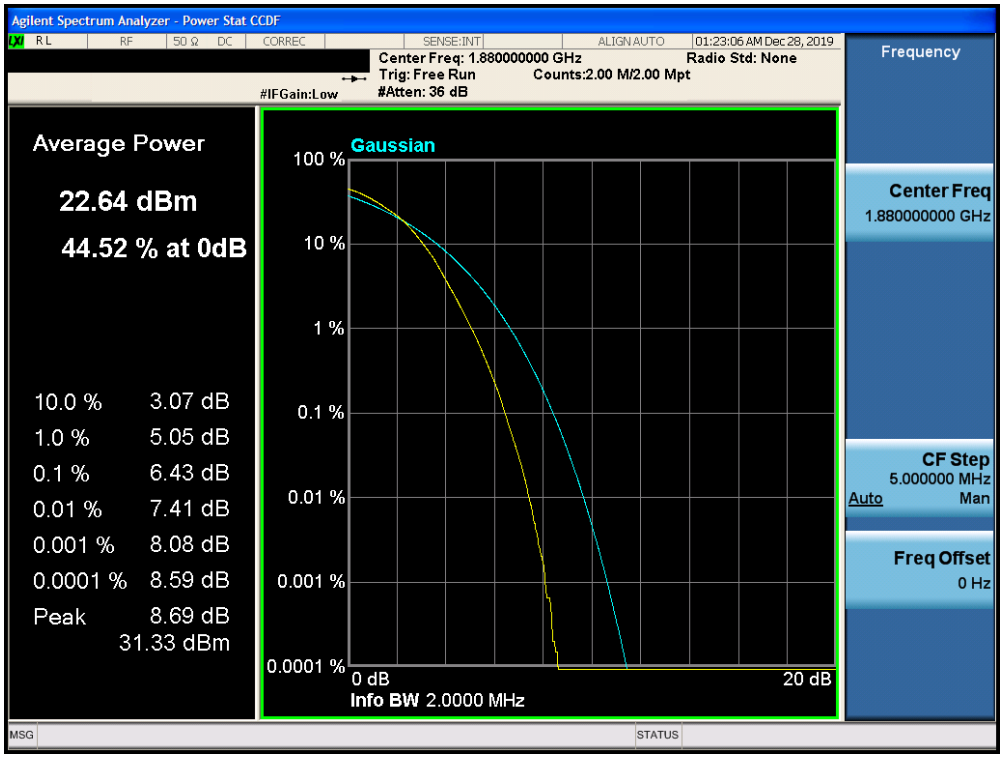
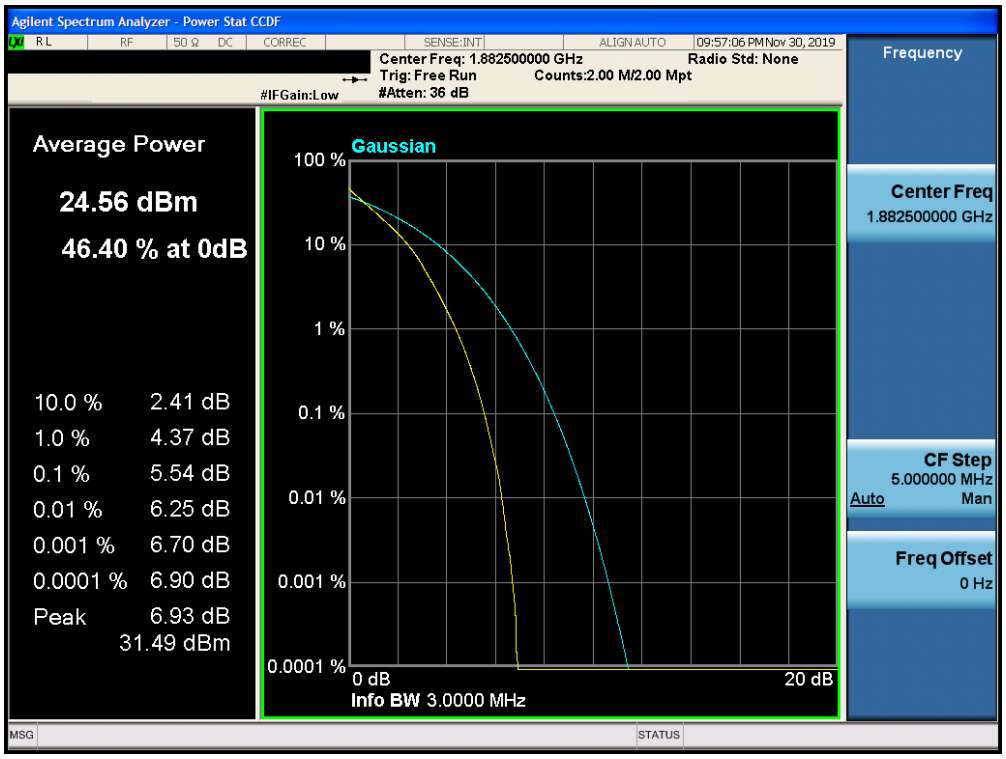


Plot 7-381. PAR Plot (Band 25 – 1.4MHz 64-QAM – RB Size 6)



Plot 7-382. PAR Plot (Band 25 – 3.0MHz QPSK – RB Size 15)

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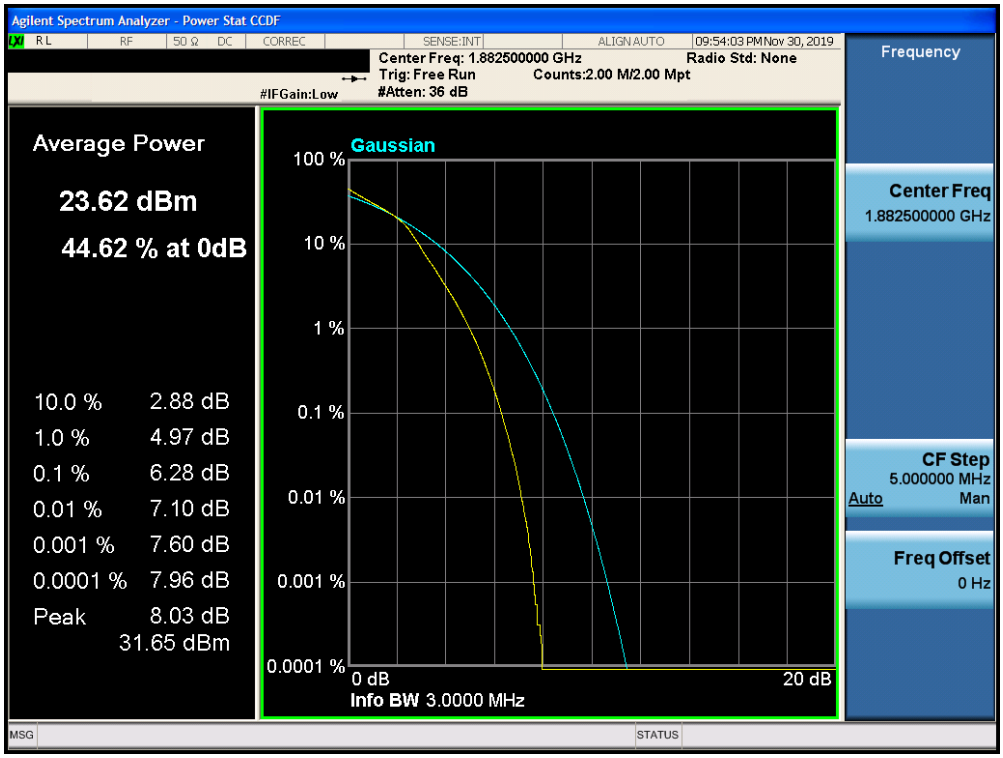
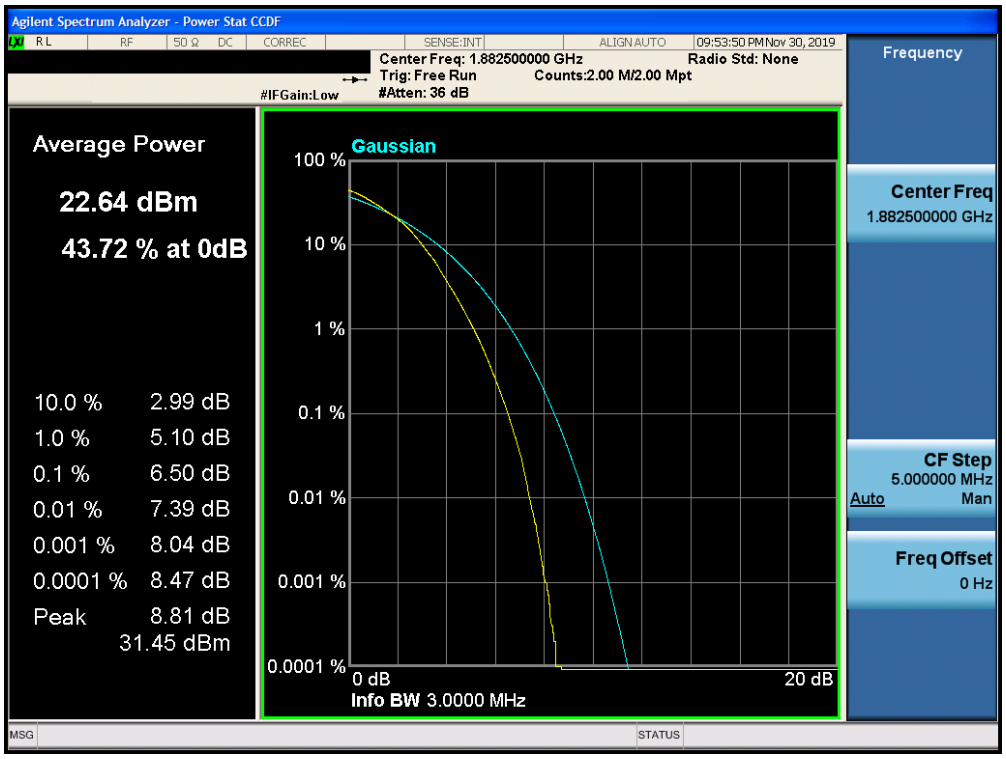


Plot 7-383. PAR Plot (Band 25 – 3.0MHz 16-QAM – RB Size 15)



Plot 7-384. PAR Plot (Band 25 – 3.0MHz 64-QAM – RB Size 15)

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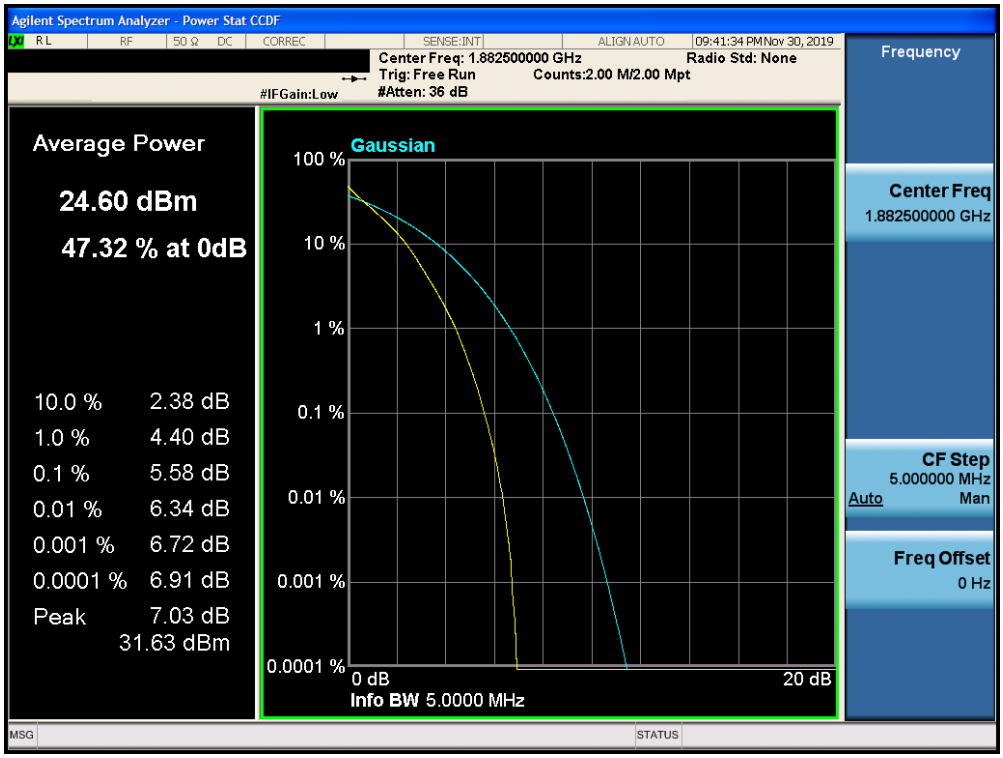
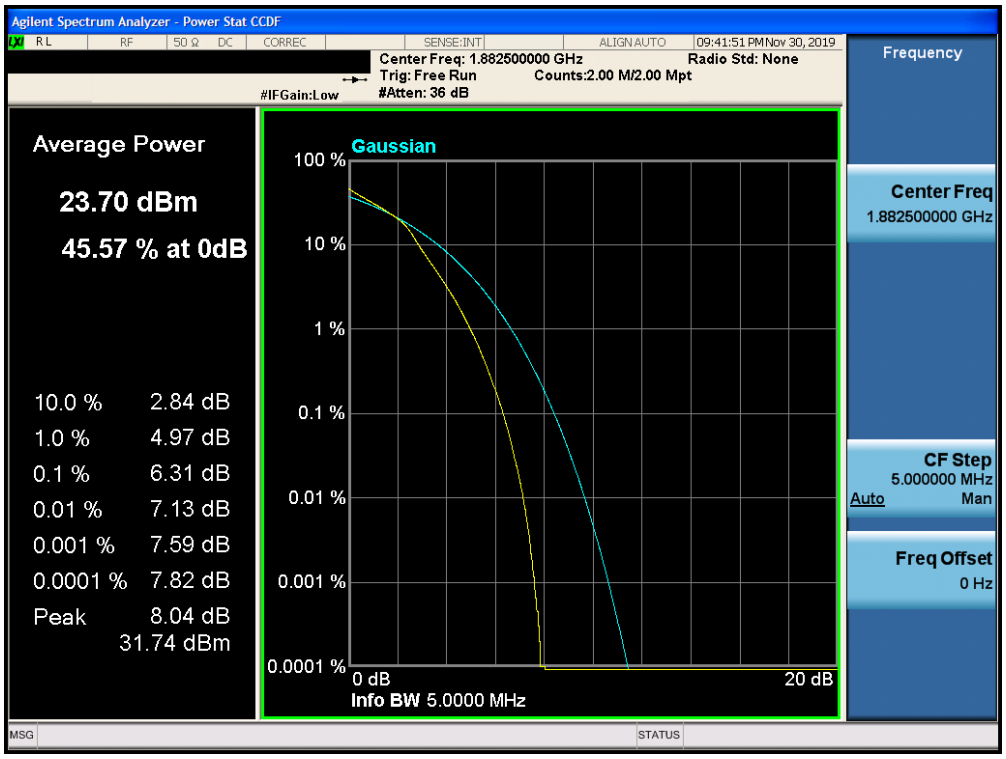


Plot 7-385. PAR Plot (Band 25 – 5.0MHz QPSK – RB Size 25)



Plot 7-386. PAR Plot (Band 25 – 5.0MHz 16-QAM – RB Size 25)

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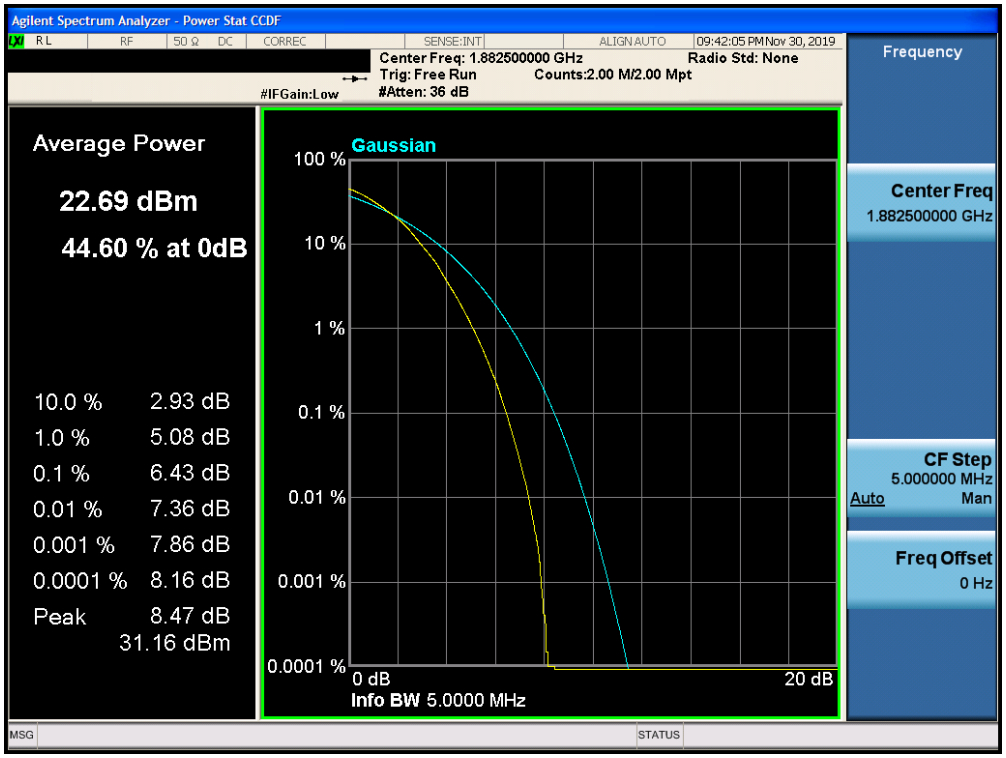
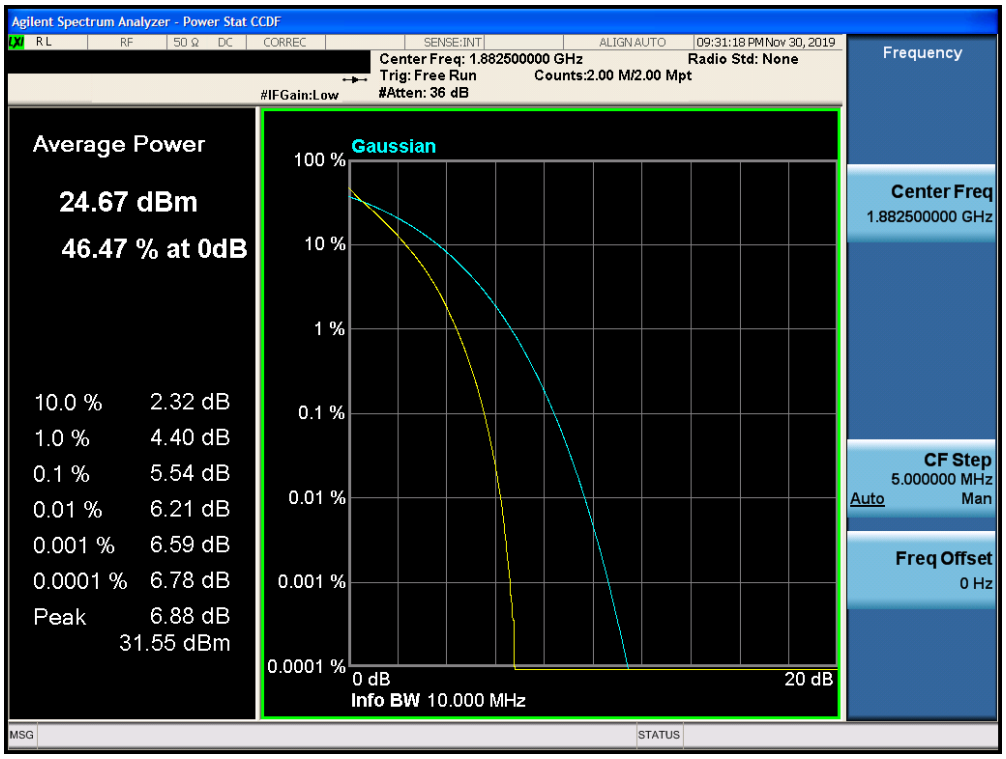


Plot 7-387. PAR Plot (Band 25 – 5.0MHz 64-QAM – RB Size 25)



Plot 7-388. PAR Plot (Band 25 – 10.0MHz QPSK – RB Size 50)

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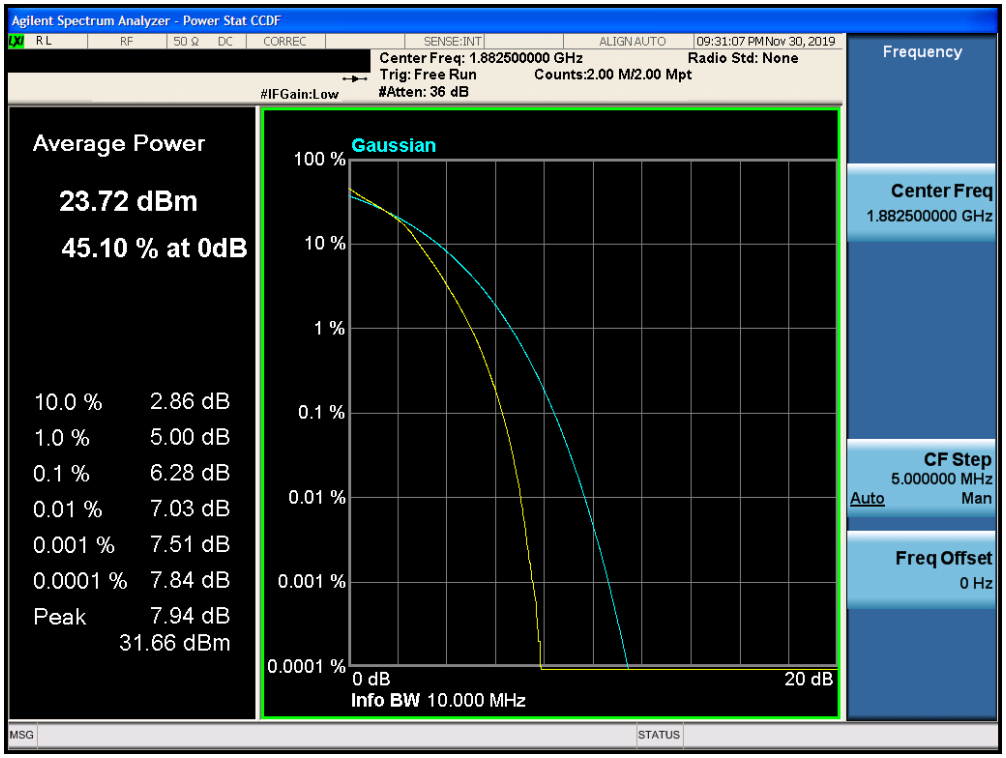
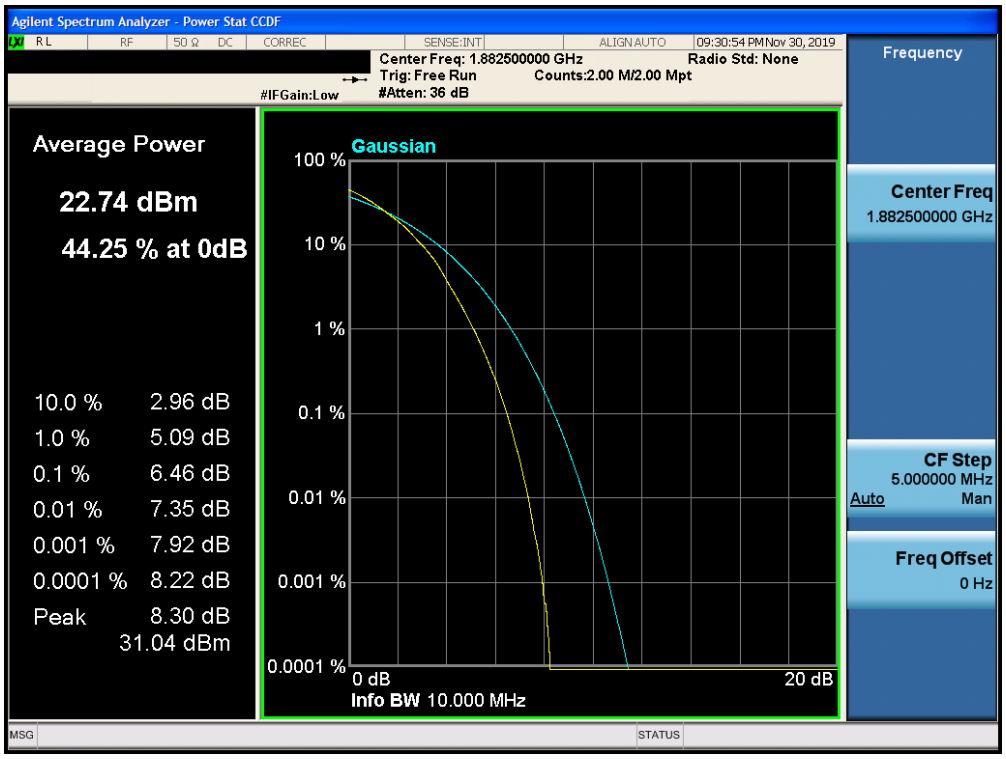


Plot 7-389. PAR Plot (Band 25 – 10.0MHz 16-QAM – RB Size 50)



Plot 7-390. PAR Plot (Band 25 – 10.0MHz 64-QAM – RB Size 50)

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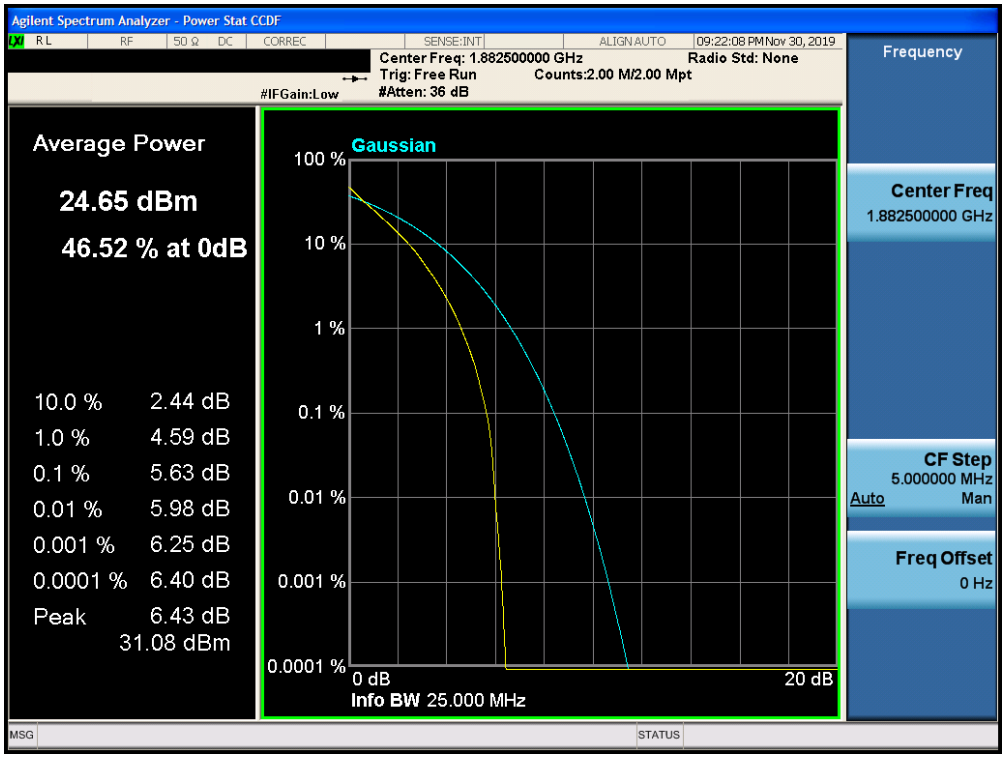
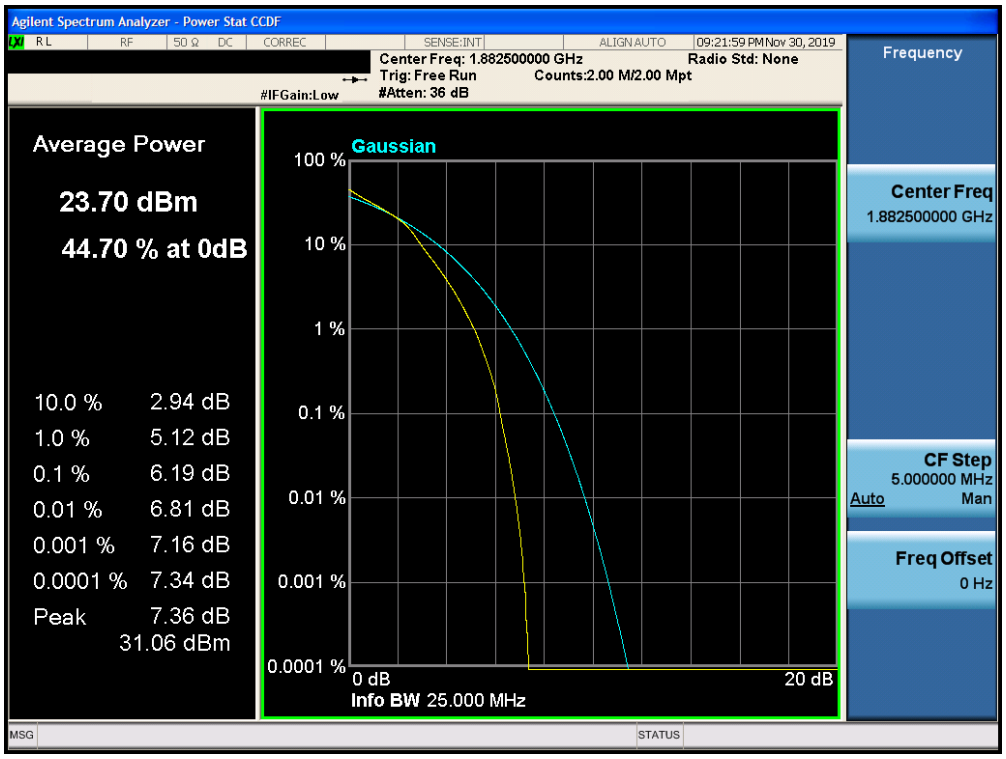


Plot 7-391. PAR Plot (Band 25 – 15.0MHz QPSK – RB Size 75)



Plot 7-392. PAR Plot (Band 25 – 15.0MHz 16-QAM – RB Size 75)

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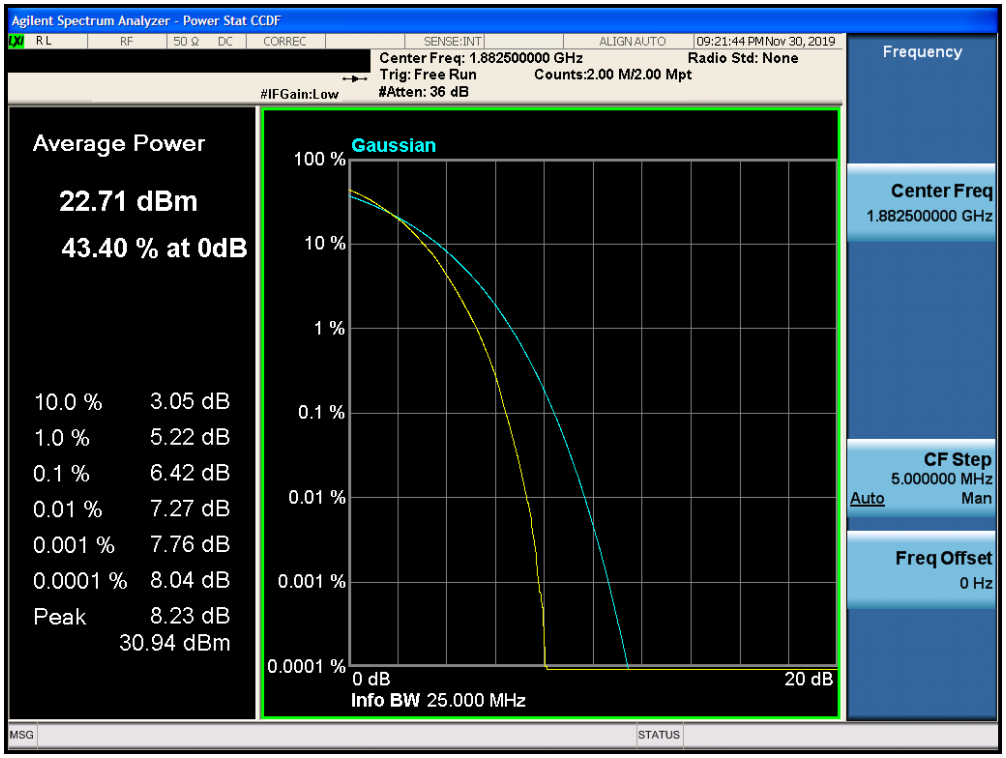
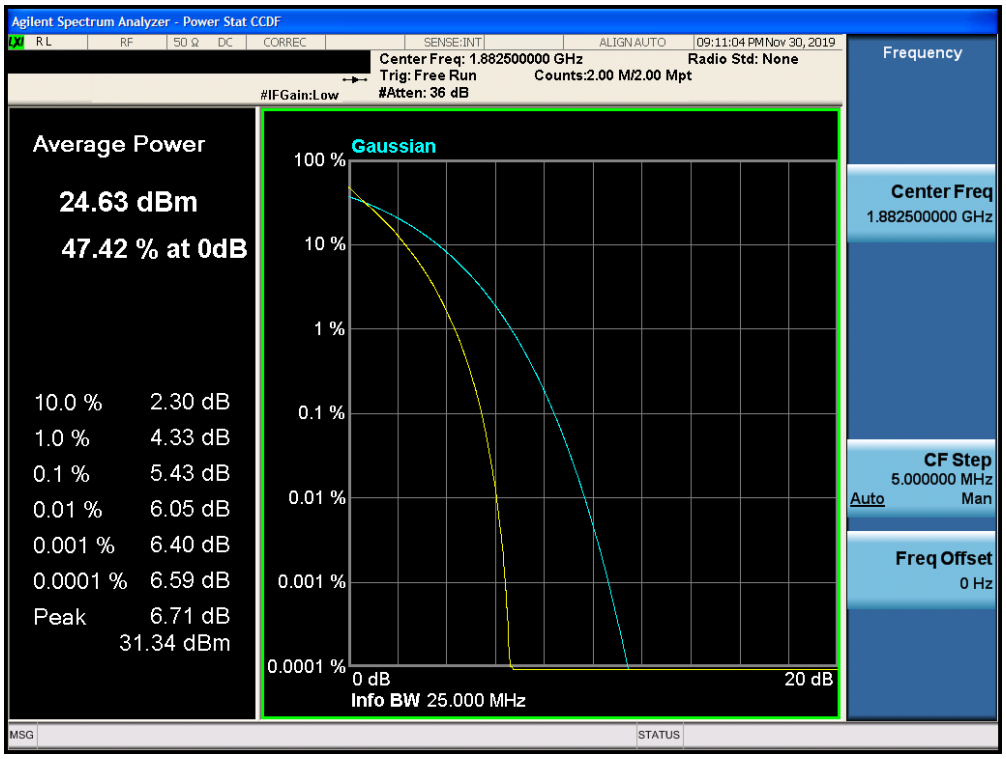


Plot 7-393. PAR Plot (Band 25 – 15.0MHz 64-QAM – RB Size 75)



Plot 7-394. PAR Plot (Band 25 – 20.0MHz QPSK – RB Size 100)

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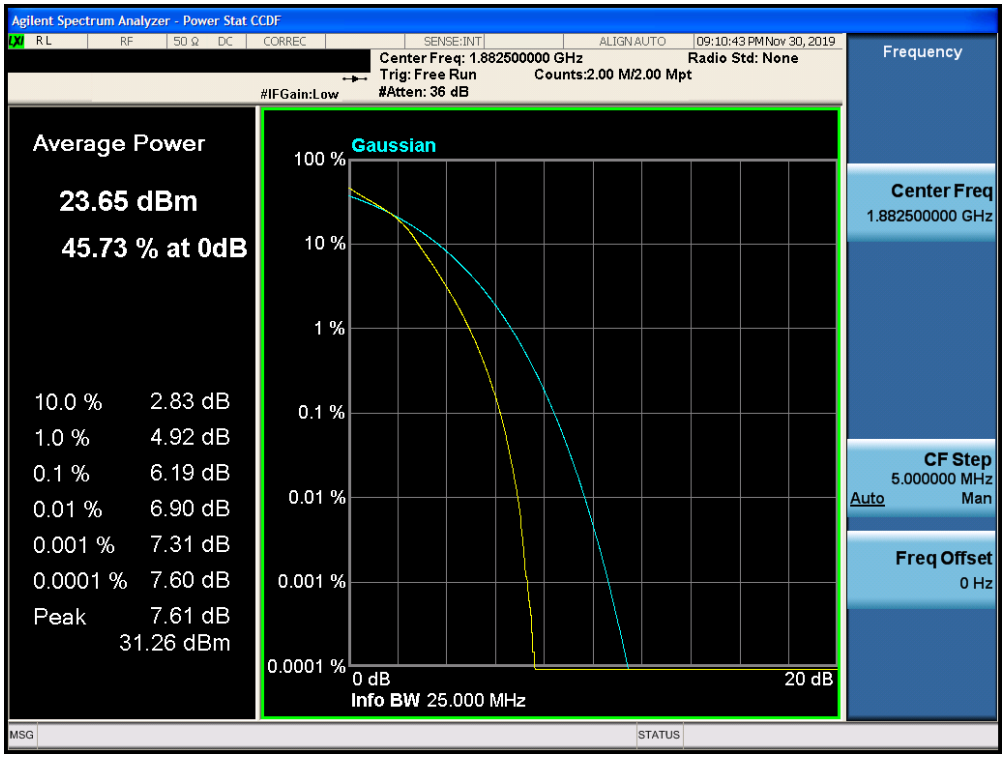
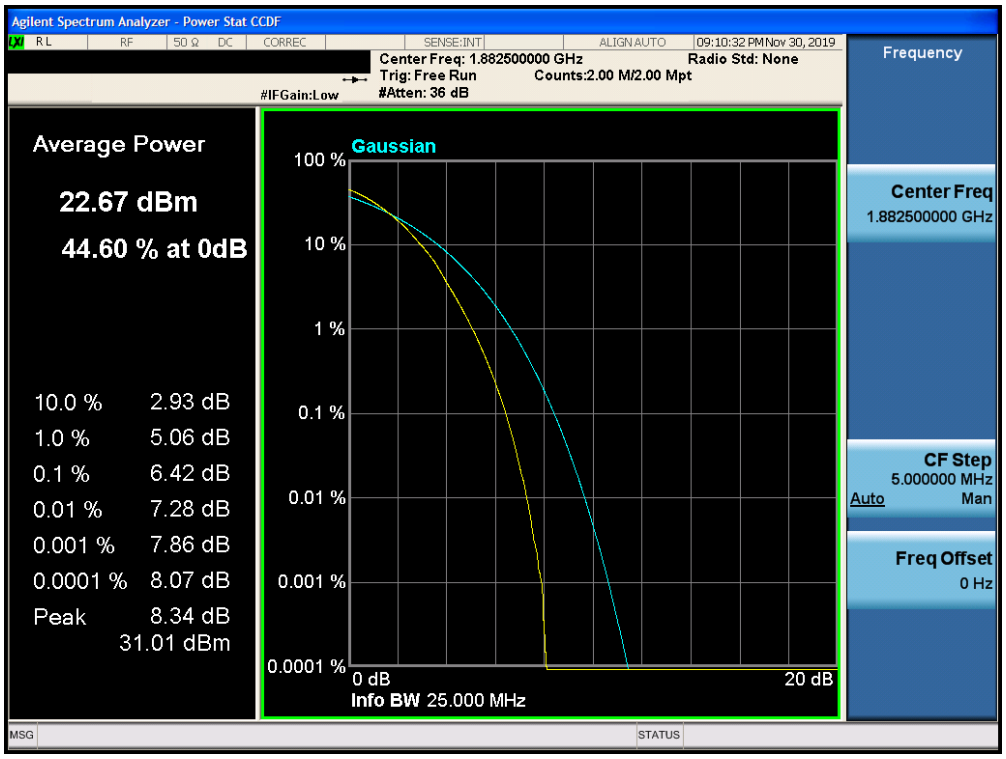


Plot 7-395. PAR Plot (Band 25 – 20.0MHz 16-QAM – RB Size 100)



Plot 7-396. PAR Plot (Band 25 – 20.0MHz 64-QAM – RB Size 100)

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7.6 Additional Maximum Power Reduction (A-MPR)
§2.1046

Test Overview

A-MPR is implemented in this device when operating at Power Class 2 in LTE Band 41 per the A-MPR specification in 3GPP TS 36.101. The conducted powers are shown herein to cover the different A-MPR levels specified in the standard. Conducted power measurements are performed to measure the average output power of the EUT. The averaging is to be performed only over duration of active transmissions at maximum output power level. The average measurements do not include averaging over periods when the transmitter is quiescent or when operating at reduced power level.

Test Procedure Used

KDB 971168 D01 v03

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below

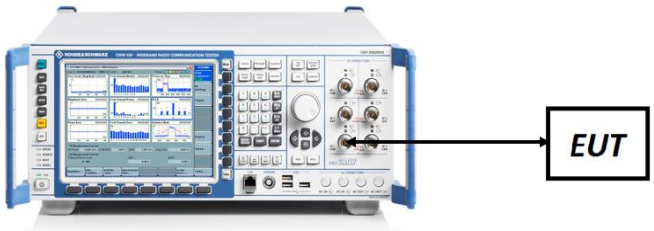

Figure 7-5. Conducted Power Measurement Setup

Test Notes

None.

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Test Case	NS	MCC	MNC	Channel BW [MHz]	Channel Number	Channel Frequency [MHz]	Modulation	RB Size	RB Offset	MPR [dB]	A-MPR [dB]	Measured Power [dBm]	Lowest Typical Power [dBm]	Delta [dB]
1	01	312	530	5	39675	2498.5	QPSK	1	0	0	≤ 3	27.17	23.0	**4.17**
							16-QAM			≤ 1		26.68	22.0	**4.68**
							64-QAM			≤ 2		25.00	21.0	**4.00**
2				5	39675	2498.5	QPSK	1	9	0	0	27.09	26.0	**1.09**
							16-QAM			≤ 1		26.57	25.0	**1.57**
							64-QAM			≤ 2		24.86	24.0	**0.86**
3				10	39700	2501	QPSK	1	0	0	≤ 5	27.20	21.0	**6.20**
							16-QAM	1	0	≤ 1		26.87	20.0	**6.87**
							64-QAM	1	0	≤ 2		24.92	19.0	**5.92**
4				10	39700	2501	QPSK	20	0	0	≤ 2	26.12	23.0	**3.12**
							16-QAM	20	0	≤ 1		25.04	22.0	**3.04**
							64-QAM	20	0	≤ 2		24.21	21.0	**3.21**
5				10	39700	2501	QPSK	50	0	0	≤ 3	25.70	22.0	**3.70**
							16-QAM	50	0	≤ 1		24.97	21.0	**3.97**
							64-QAM	50	0	≤ 2		24.08	20.0	**4.08**
6				10	39700	2501	QPSK	25	20	0	≤ 1	26.00	24.0	**2.00**
							16-QAM	25	20	≤ 1		25.02	23.0	**2.02**
							64-QAM	25	20	≤ 2		23.99	22.0	**1.99**
7				10	39700	2501	QPSK	1	36	0	0	26.11	26.0	**0.11**
							16-QAM	1	36	≤ 1		25.67	25.0	**0.67**
							64-QAM	1	36	≤ 2		25.01	24.0	**1.01**
8				15	39725	2503.5	QPSK	1	0	0	≤ 5	27.25	21.0	**6.25**
							16-QAM	1	0	≤ 1		25.42	20.0	**5.42**
							64-QAM	1	0	≤ 2		24.93	19.0	**5.93**
9				15	39725	2503.5	QPSK	20	0	0	≤ 2	25.80	23.0	**2.80**
							16-QAM	20	0	≤ 1		25.12	22.0	**3.12**
							64-QAM	20	0	≤ 2		24.24	21.0	**3.24**
10				15	39725	2503.5	QPSK	75	0	0	≤ 4	26.01	21.0	**5.01**
							16-QAM	75	0	≤ 1		25.06	20.0	**5.06**
							64-QAM	75	0	≤ 2		24.02	19.0	**5.02**
11				15	39725	2503.5	QPSK	50	15	0	≤ 3	26.07	22.0	**4.07**
							16-QAM	50	15	≤ 1		25.12	21.0	**4.12**
							64-QAM	50	15	≤ 2		24.12	20.0	**4.12**
12				15	39725	2503.5	QPSK	1	60	0	0	27.02	26.0	**1.02**
							16-QAM	1	60	≤ 1		26.44	25.0	**1.44**
							64-QAM	1	60	≤ 2		25.47	24.0	**1.47**
13				20	39750	2506	QPSK	1	0	0	≤ 5	27.22	21.0	**6.22**
							16-QAM	1	0	≤ 1		26.72	20.0	**6.72**
							64-QAM	1	0	≤ 2		24.88	19.0	**5.88**
14				20	39750	2506	QPSK	20	0	0	≤ 2	26.21	23.0	**3.21**
							16-QAM	20	0	≤ 1		25.05	22.0	**3.05**
							64-QAM	20	0	≤ 2		24.23	21.0	**3.23**
15				20	39750	2506	QPSK	100	0	0	≤ 4	25.97	21.0	**4.97**
							16-QAM	100	0	≤ 1		25.01	20.0	**5.01**
							64-QAM	100	0	≤ 2		24.02	19.0	**5.02**
16				20	39750	2506	QPSK	75	24	0	≤ 3	25.94	22.0	**3.94**
							16-QAM	75	24	≤ 1		25.04	21.0	**4.04**
							64-QAM	75	24	≤ 2		24.00	20.0	**4.00**
17				20	39750	2506	QPSK	1	77	0	0	27.04	26.0	**1.04**
							16-QAM	1	77	≤ 1		26.52	25.0	**1.52**
							64-QAM	1	77	≤ 2		25.52	24.0	**1.52**
18	01	311	490	5	39675	2498.5	QPSK	1	0	0	≤ 3	27.17	23.0	**4.17**
							16-QAM			≤ 1		26.68	22.0	**4.68**
							64-QAM			≤ 2		25.02	21.0	**4.02**
19	01	001	01	5	39675	2498.5	QPSK	1	0	0	0	27.22	26.0	**1.22**
							16-QAM			≤ 1		26.73	25.0	**1.73**
							64-QAM			≤ 2		24.99	24.0	**0.99**

Table 7-7. A-MPR Conducted Power Measurements

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7.7 Uplink Carrier Aggregation

§27.53(m)

Test Overview

The EUT is set up to transmit two contiguous LTE channels. The power level of both carriers and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic. All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

For Band 5, the minimum permissible attenuation level of any spurious emission is 43 + $\log_{10}(P_{[Watts]})$, where P is the transmitter power in Watts.

For Band 7 and 41, the minimum permissible attenuation level of any spurious emission is 55 + $\log_{10}(P_{[Watts]})$.

Test Procedure Used

KDB 971168 D01 v03r01 – Section 6.0

Test Settings

1. Start frequency was set to 30MHz and stop frequency was set to at least 10 * the fundamental frequency (separated into at least two plots per channel)
2. Detector = RMS
3. Trace mode = trace average for continuous emissions, max hold for pulse emissions
4. Sweep time = auto couple
5. The trace was allowed to stabilize
6. Please see test notes below for RBW and VBW settings

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

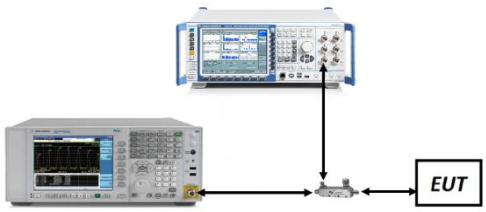

Figure 7-6. Test Instrument & Measurement Setup

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Test Notes

1. Uplink carrier aggregation is supported in this EUT while operating in Power Class 2 and Power Class 3.

2. Conducted power and spurious emissions measurements were evaluated for the two contiguous channels using various combinations of RB size, RB offset, modulation, and channel bandwidth. Channel bandwidth data is shown in the tables below based only on the channel bandwidths that were supported in this device. The worst case (highest) powers were found while operating with QPSK modulation, as shown in Table 7-3 to 7-18 below, with both carriers set to transmit using 1RB.

3. Compliance with the applicable limits is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater for frequencies less than 1 GHz and 1 MHz or greater for frequencies greater than 1 GHz. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

4. All possible configurations and ports were tested and only the worst case data were reported.

5. Refer to Table 2-3 Section 2.3 of this test report for correlation between Antennas and Ports.

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Port-A

Power State	PCC							SCC							Power
	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL) Channel	SCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	ULCA Tx.Power (dBm)
Max	LTE B5	10	20450	829	QPSK	1	99	LTE B5	10	20899	838.9	QPSK	1	0	25.00
Max	LTE B5	10	20525	836.5	QPSK	1	99	LTE B5	5	20947	843.7	QPSK	1	0	24.93
Max	LTE B5	10	20600	844	QPSK	1	0	LTE B5	10	20851	834.1	QPSK	1	99	24.91

Table 7-8. Conducted Powers (B5 – Left Carrier: RB Size 1 Offset Max Right Carrier: RB Size 1 Offset 0)

Power State	PCC							SCC							Power
	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL) Channel	SCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	ULCA Tx.Power (dBm)
Max	LTE B5	10	20450	829	QPSK	50	0	LTE B5	10	20549	838.9	QPSK	50	0	22.97
Max	LTE B5	10	20450	829	16-QAM	50	0	LTE B5	10	20549	838.9	16-QAM	50	0	21.97
Max	LTE B5	10	20450	829	64-QAM	50	0	LTE B5	10	20549	838.9	64-QAM	50	0	21.99

Table 7-9. Conducted Powers (B5 with Various Combinations for 10MHz Channel Bandwidth)

Power State	PCC							SCC							Power
	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL) Channel	SCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	ULCA Tx.Power (dBm)
Max	LTE B7	20	20850	2510	QPSK	1	99	LTE B7	20	21048	2529.8	QPSK	1	0	24.98
Max	LTE B7	20	21100	2535	QPSK	1	99	LTE B7	20	21298	2554.8	QPSK	1	0	24.99
Max	LTE B7	20	21350	2560	QPSK	1	0	LTE B7	20	21152	2540.2	QPSK	1	99	24.96

Table 7-10. Conducted Powers (B7 – Left Carrier: RB Size 1 Offset Max Right Carrier: RB Size 1 Offset 0)

Power State	PCC							SCC							Power
	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL) Channel	SCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	ULCA Tx.Power (dBm)
Max	LTE B7	20	20850	2510	QPSK	100	0	LTE B7	20	21048	2529.8	QPSK	100	0	23.00
Max	LTE B7	20	20850	2510	16-QAM	100	0	LTE B7	20	21048	2529.8	16-QAM	100	0	21.96
Max	LTE B7	20	20850	2510	64-QAM	100	0	LTE B7	20	21048	2529.8	64-QAM	100	0	21.94

Table 7-11. Conducted Powers (B7 with Various Combinations for 20MHz Channel Bandwidth)

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Power State	PCC							SCC							Power
	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL) Channel	SCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	ULCA Tx.Power (dBm)
Max	LTE B41	20	39750	2506	QPSK	1	99	LTE B41	20	39948	2525.8	QPSK	1	0	27.00
Max	LTE B41	20	40620	2593	QPSK	1	99	LTE B41	20	40818	2612.8	QPSK	1	0	26.81
Max	LTE B41	20	41490	2680	QPSK	1	0	LTE B41	20	41292	2660.2	QPSK	1	99	26.97

Table 7-12. Conducted Powers (B41-PC2 – Left Carrier: RB Size 1 Offset Max Right Carrier: RB Size 1 Offset 0)

Power State	PCC							SCC							Power
	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL) Channel	SCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	ULCA Tx.Power (dBm)
Max	LTE B41	20	39750	2506	QPSK	100	0	LTE B41	20	39948	2525.8	QPSK	100	0	24.96
Max	LTE B41	20	39750	2506	16-QAM	100	0	LTE B41	20	39948	2525.8	16-QAM	100	0	23.97
Max	LTE B41	20	39750	2506	64-QAM	100	0	LTE B41	20	39948	2525.8	64-QAM	100	0	23.94

Table 7-13. Conducted Powers (B41-PC2 with Various Combinations for 20MHz Channel Bandwidth)

Power State	PCC							SCC							Power
	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL) Channel	SCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	ULCA Tx.Power (dBm)
Max	LTE B41	20	39750	2506	QPSK	1	99	LTE B41	20	39948	2525.8	QPSK	1	0	24.84
Max	LTE B41	20	40620	2593	QPSK	1	99	LTE B41	20	40818	2612.8	QPSK	1	0	24.86
Max	LTE B41	20	41490	2680	QPSK	1	0	LTE B41	20	41292	2660.2	QPSK	1	99	24.75

Table 7-14. Conducted Powers (B41-PC3 – Left Carrier: RB Size 1 Offset Max Right Carrier: RB Size 1 Offset 0)

Power State	PCC							SCC							Power
	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL) Channel	SCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	ULCA Tx.Power (dBm)
Max	LTE B41	20	39750	2506	QPSK	100	0	LTE B41	20	39948	2525.8	QPSK	100	0	22.70
Max	LTE B41	20	39750	2506	16-QAM	100	0	LTE B41	20	39948	2525.8	16-QAM	100	0	21.76
Max	LTE B41	20	39750	2506	64-QAM	100	0	LTE B41	20	39948	2525.8	64-QAM	100	0	21.70

Table 7-15. Conducted Powers (B41-PC3 with Various Combinations for 20MHz Channel Bandwidth)

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Port-B

Power State	PCC							SCC							Power
	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL) Channel	SCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	ULCA Tx.Power (dBm)
Max	LTE B5	10	20450	829	QPSK	1	49	LTE B5	10	20899	838.9	QPSK	1	0	23.48
Max	LTE B5	10	20525	836.5	QPSK	1	49	LTE B5	5	20947	843.7	QPSK	1	0	23.41
Max	LTE B5	10	20600	844	QPSK	1	0	LTE B5	10	20851	834.1	QPSK	1	49	23.45

Table 7-16. Conducted Powers (B5 – Left Carrier: RB Size 1 Offset Max Right Carrier: RB Size 1 Offset 0)

Power State	PCC							SCC							Power
	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL) Channel	SCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	ULCA Tx.Power (dBm)
Max	LTE B5	10	20450	829	QPSK	50	0	LTE B5	10	20549	838.9	QPSK	50	0	21.49
Max	LTE B5	10	20450	829	16-QAM	50	0	LTE B5	10	20549	838.9	16-QAM	50	0	20.45
Max	LTE B5	10	20450	829	64-QAM	50	0	LTE B5	10	20549	838.9	64-QAM	50	0	20.41

Table 7-17. Conducted Powers (B5 with Various Combinations for 10MHz Channel Bandwidth)

Power State	PCC							SCC							Power
	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL) Channel	SCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	ULCA Tx.Power (dBm)
Max	LTE B7	20	20850	2510	QPSK	1	99	LTE B7	20	21048	2529.8	QPSK	1	0	21.49
Max	LTE B7	20	21100	2535	QPSK	1	99	LTE B7	20	21298	2554.8	QPSK	1	0	21.44
Max	LTE B7	20	21350	2560	QPSK	1	0	LTE B7	20	21152	2540.2	QPSK	1	99	21.42

Table 7-18. Conducted Powers (B7 – Left Carrier: RB Size 1 Offset Max Right Carrier: RB Size 1 Offset 0)

Power State	PCC							SCC							Power
	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL) Channel	SCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	ULCA Tx.Power (dBm)
Max	LTE B7	20	20850	2510	QPSK	100	0	LTE B7	20	21048	2529.8	QPSK	100	0	19.45
Max	LTE B7	20	20850	2510	16-QAM	100	0	LTE B7	20	21048	2529.8	16-QAM	100	0	18.41
Max	LTE B7	20	20850	2510	64-QAM	100	0	LTE B7	20	21048	2529.8	64-QAM	100	0	18.37

Table 7-19. Conducted Powers (B7 with Various Combinations for 20MHz Channel Bandwidth)

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Power State	PCC							SCC							Power
	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL) Channel	SCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	ULCA Tx.Power (dBm)
Max	LTE B41	20	39750	2506	QPSK	1	99	LTE B41	20	39948	2525.8	QPSK	1	0	23.42
Max	LTE B41	20	40620	2593	QPSK	1	99	LTE B41	20	40818	2612.8	QPSK	1	0	23.50
Max	LTE B41	20	41490	2680	QPSK	1	0	LTE B41	20	41292	2660.2	QPSK	1	99	23.41

Table 7-20. Conducted Powers (B41-PC2 – Left Carrier: RB Size 1 Offset Max Right Carrier: RB Size 1 Offset 0)

Power State	PCC							SCC							Power
	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL) Channel	SCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	ULCA Tx.Power (dBm)
Max	LTE B41	20	39750	2506	QPSK	100	0	LTE B41	20	39948	2525.8	QPSK	100	0	21.43
Max	LTE B41	20	39750	2506	16-QAM	100	0	LTE B41	20	39948	2525.8	16-QAM	100	0	20.36
Max	LTE B41	20	39750	2506	64-QAM	100	0	LTE B41	20	39948	2525.8	64-QAM	100	0	20.31

Table 7-21. Conducted Powers (B41-PC2 with Various Combinations for 20MHz Channel Bandwidth)

Power State	PCC							SCC							Power
	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL) Channel	SCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	ULCA Tx.Power (dBm)
Max	LTE B41	20	39750	2506	QPSK	1	99	LTE B41	20	39948	2525.8	QPSK	1	0	21.42
Max	LTE B41	20	40620	2593	QPSK	1	99	LTE B41	20	40818	2612.8	QPSK	1	0	21.46
Max	LTE B41	20	41490	2680	QPSK	1	0	LTE B41	20	41292	2660.2	QPSK	1	99	21.42

Table 7-22. Conducted Powers (B41-PC3 – Left Carrier: RB Size 1 Offset Max Right Carrier: RB Size 1 Offset 0)

Power State	PCC							SCC							Power
	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL) Channel	SCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	ULCA Tx.Power (dBm)
Max	LTE B41	20	39750	2506	QPSK	100	0	LTE B41	20	39948	2525.8	QPSK	100	0	19.50
Max	LTE B41	20	39750	2506	16-QAM	100	0	LTE B41	20	39948	2525.8	16-QAM	100	0	18.48
Max	LTE B41	20	39750	2506	64-QAM	100	0	LTE B41	20	39948	2525.8	64-QAM	100	0	18.44

Table 7-23. Conducted Powers (B41-PC3 with Various Combinations for 20MHz Channel Bandwidth)

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Port-C

Power State	PCC							SCC							Power
	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL) Channel	SCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	ULCA Tx.Power (dBm)
Max	LTE B7	20	20850	2510	QPSK	1	99	LTE B7	20	21048	2529.8	QPSK	1	0	24.48
Max	LTE B7	20	21100	2535	QPSK	1	99	LTE B7	20	21298	2554.8	QPSK	1	0	24.45
Max	LTE B7	20	21350	2560	QPSK	1	0	LTE B7	20	21152	2540.2	QPSK	1	99	24.50

Table 7-24. Conducted Powers (B7 – Left Carrier: RB Size 1 Offset Max Right Carrier: RB Size 1 Offset 0)

Power State	PCC							SCC							Power
	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL) Channel	SCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	ULCA Tx.Power (dBm)
Max	LTE B7	20	20850	2510	QPSK	100	0	LTE B7	20	21048	2529.8	QPSK	100	0	22.48
Max	LTE B7	20	20850	2510	16-QAM	100	0	LTE B7	20	21048	2529.8	16-QAM	100	0	21.50
Max	LTE B7	20	20850	2510	64-QAM	100	0	LTE B7	20	21048	2529.8	64-QAM	100	0	21.47

Table 7-25. Conducted Powers (B7 with Various Combinations for 20MHz Channel Bandwidth)

Power State	PCC							SCC							Power
	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL) Channel	SCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	ULCA Tx.Power (dBm)
Max	LTE B41	20	39750	2506	QPSK	1	99	LTE B41	20	39948	2525.8	QPSK	1	0	26.45
Max	LTE B41	20	40620	2593	QPSK	1	99	LTE B41	20	40818	2612.8	QPSK	1	0	26.46
Max	LTE B41	20	41490	2680	QPSK	1	0	LTE B41	20	41292	2660.2	QPSK	1	99	26.50

Table 7-26. Conducted Powers (B41-PC2 – Left Carrier: RB Size 1 Offset Max Right Carrier: RB Size 1 Offset 0)

Power State	PCC							SCC							Power
	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL) Channel	SCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	ULCA Tx.Power (dBm)
Max	LTE B41	20	39750	2506	QPSK	100	0	LTE B41	20	39948	2525.8	QPSK	100	0	24.45
Max	LTE B41	20	39750	2506	16-QAM	100	0	LTE B41	20	39948	2525.8	16-QAM	100	0	23.47
Max	LTE B41	20	39750	2506	64-QAM	100	0	LTE B41	20	39948	2525.8	64-QAM	100	0	23.47

Table 7-27. Conducted Powers (B41-PC2 with Various Combinations for 20MHz Channel Bandwidth)

Power State	PCC							SCC							Power
	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL) Channel	SCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	ULCA Tx.Power (dBm)
Max	LTE B41	20	39750	2506	QPSK	1	99	LTE B41	20	39948	2525.8	QPSK	1	0	24.43
Max	LTE B41	20	40620	2593	QPSK	1	99	LTE B41	20	40818	2612.8	QPSK	1	0	24.50
Max	LTE B41	20	41490	2680	QPSK	1	0	LTE B41	20	41292	2660.2	QPSK	1	99	24.47

Table 7-28. Conducted Powers (B41-PC3 – Left Carrier: RB Size 1 Offset Max Right Carrier: RB Size 1 Offset 0)

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Power State	PCC							SCC							Power
	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL) Channel	SCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	ULCA Tx.Power (dBm)
Max	LTE B41	20	39750	2506	QPSK	100	0	LTE B41	20	39948	2525.8	QPSK	100	0	22.49
Max	LTE B41	20	39750	2506	16-QAM	100	0	LTE B41	20	39948	2525.8	16-QAM	100	0	21.50
Max	LTE B41	20	39750	2506	64-QAM	100	0	LTE B41	20	39948	2525.8	64-QAM	100	0	21.48

Table 7-29. Conducted Powers (B41-PC3 with Various Combinations for 20MHz Channel Bandwidth)

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Port-D

Power State	PCC							SCC							Power
	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL) Channel	SCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	ULCA Tx.Power (dBm)
Max	LTE B7	20	20850	2510	QPSK	1	99	LTE B7	20	21048	2529.8	QPSK	1	0	21.91
Max	LTE B7	20	21100	2535	QPSK	1	99	LTE B7	20	21298	2554.8	QPSK	1	0	22.00
Max	LTE B7	20	21350	2560	QPSK	1	0	LTE B7	20	21152	2540.2	QPSK	1	99	21.90

Table 7-30. Conducted Powers (B7 – Left Carrier: RB Size 1 Offset Max Right Carrier: RB Size 1 Offset 0)

Power State	PCC							SCC							Power
	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL) Channel	SCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	ULCA Tx.Power (dBm)
Max	LTE B7	20	20850	2510	QPSK	100	0	LTE B7	20	21048	2529.8	QPSK	100	0	20.00
Max	LTE B7	20	20850	2510	16-QAM	100	0	LTE B7	20	21048	2529.8	16-QAM	100	0	19.00
Max	LTE B7	20	20850	2510	64-QAM	100	0	LTE B7	20	21048	2529.8	64-QAM	100	0	18.92

Table 7-31. Conducted Powers (B7 with Various Combinations for 20MHz Channel Bandwidth)

Power State	PCC							SCC							Power
	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL) Channel	SCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	ULCA Tx.Power (dBm)
Max	LTE B41	20	39750	2506	QPSK	1	99	LTE B41	20	39948	2525.8	QPSK	1	0	22.48
Max	LTE B41	20	40620	2593	QPSK	1	99	LTE B41	20	40818	2612.8	QPSK	1	0	22.45
Max	LTE B41	20	41490	2680	QPSK	1	0	LTE B41	20	41292	2660.2	QPSK	1	99	22.48

Table 7-32. Conducted Powers (B41-PC2 – Left Carrier: RB Size 1 Offset Max Right Carrier: RB Size 1 Offset 0)

Power State	PCC							SCC							Power
	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL) Channel	SCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	ULCA Tx.Power (dBm)
Max	LTE B41	20	39750	2506	QPSK	100	0	LTE B41	20	39948	2525.8	QPSK	100	0	20.50
Max	LTE B41	20	39750	2506	16-QAM	100	0	LTE B41	20	39948	2525.8	16-QAM	100	0	19.47
Max	LTE B41	20	39750	2506	64-QAM	100	0	LTE B41	20	39948	2525.8	64-QAM	100	0	19.45

Table 7-33. Conducted Powers (B41-PC2 with Various Combinations for 20MHz Channel Bandwidth)

Power State	PCC							SCC							Power
	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL) Channel	SCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	ULCA Tx.Power (dBm)
Max	LTE B41	20	39750	2506	QPSK	1	99	LTE B41	20	39948	2525.8	QPSK	1	0	20.94
Max	LTE B41	20	40620	2593	QPSK	1	99	LTE B41	20	40818	2612.8	QPSK	1	0	21.00
Max	LTE B41	20	41490	2680	QPSK	1	0	LTE B41	20	41292	2660.2	QPSK	1	99	20.98

Table 7-34. Conducted Powers (B41-PC3 – Left Carrier: RB Size 1 Offset Max Right Carrier: RB Size 1 Offset 0)

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Power State	PCC							SCC							Power
	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL) Channel	SCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	ULCA Tx.Power (dBm)
Max	LTE B41	20	39750	2506	QPSK	100	0	LTE B41	20	39948	2525.8	QPSK	100	0	19.00
Max	LTE B41	20	39750	2506	16-QAM	100	0	LTE B41	20	39948	2525.8	16-QAM	100	0	17.98
Max	LTE B41	20	39750	2506	64-QAM	100	0	LTE B41	20	39948	2525.8	64-QAM	100	0	17.95

Table 7-35. Conducted Powers (B41-PC3 with Various Combinations for 20MHz Channel Bandwidth)

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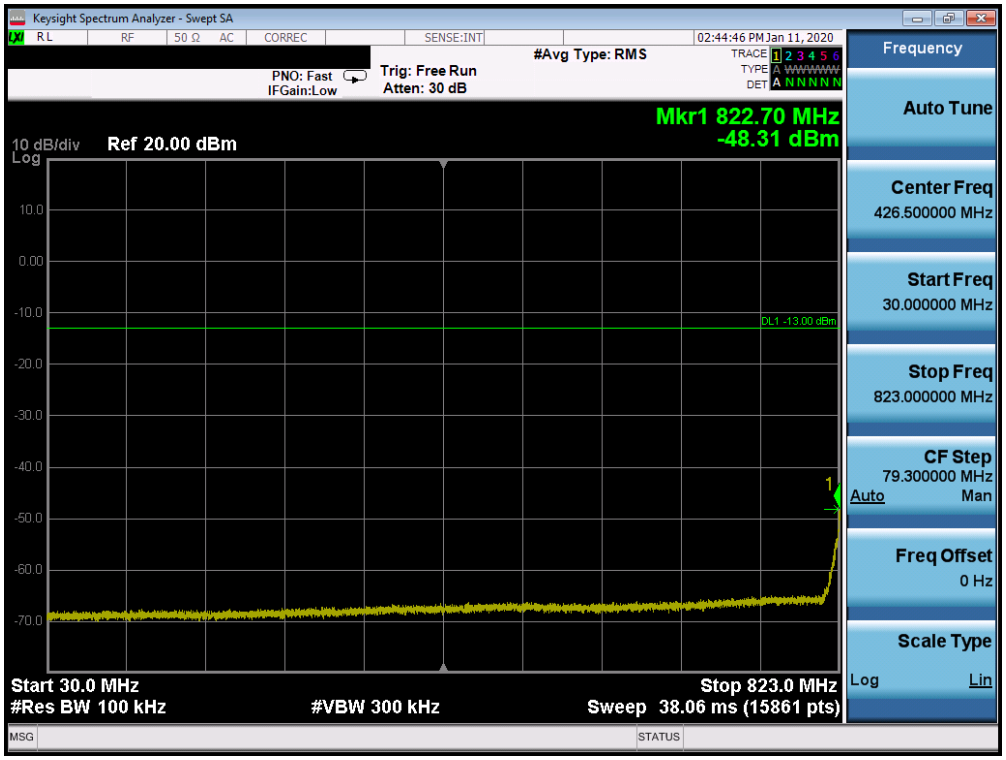
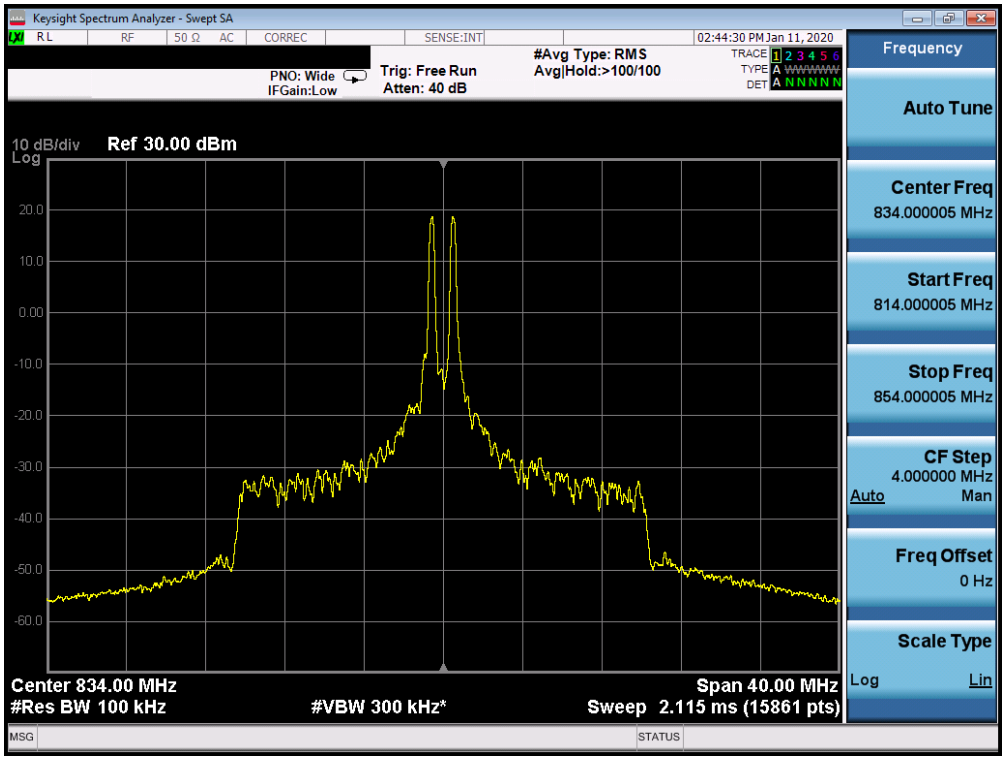
Band 5



Plot 7-397. Conducted Spurious Plot (Band 5 – 10.0MHz QPSK – PCC 1/49 SCC 1/0 – Low Channel)



Plot 7-398. Conducted Spurious Plot (Band 5 – 10.0MHz QPSK – PCC 1/49 SCC 1/0 – Low Channel)

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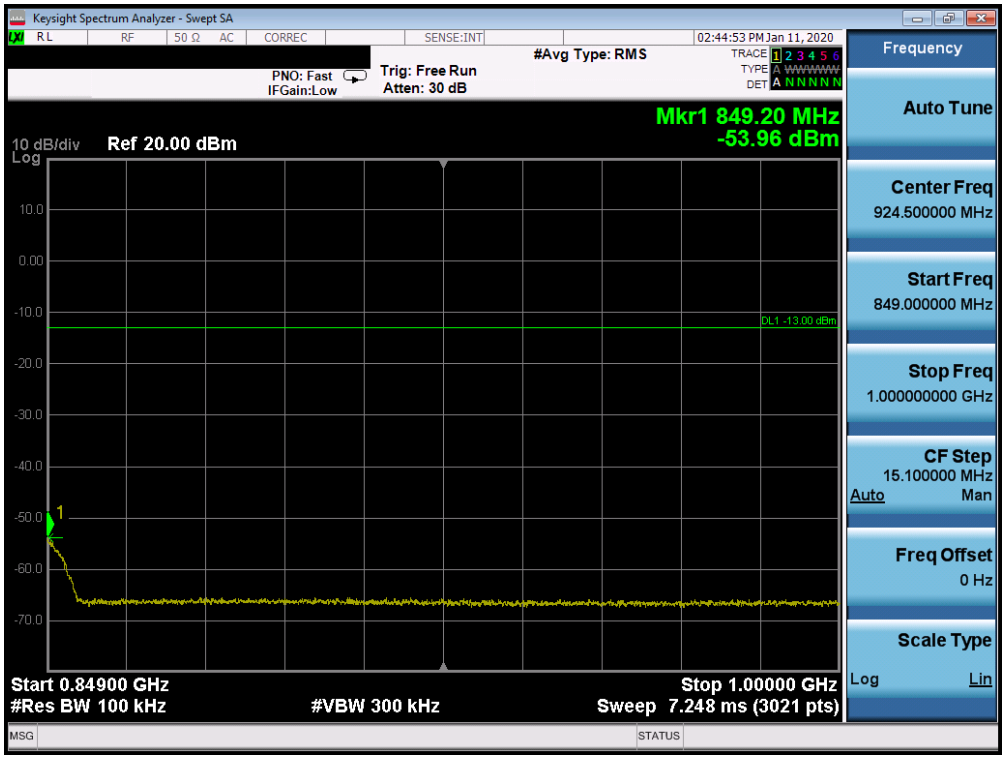

Plot 7-399. Conducted Spurious Plot (Band 5 – 10.0MHz QPSK – PCC 1/49 SCC 1/0 – Low Channel)

Plot 7-400. Conducted Spurious Plot (Band 5 – 10.0MHz QPSK – PCC 1/49 SCC 1/0 – Low Channel)

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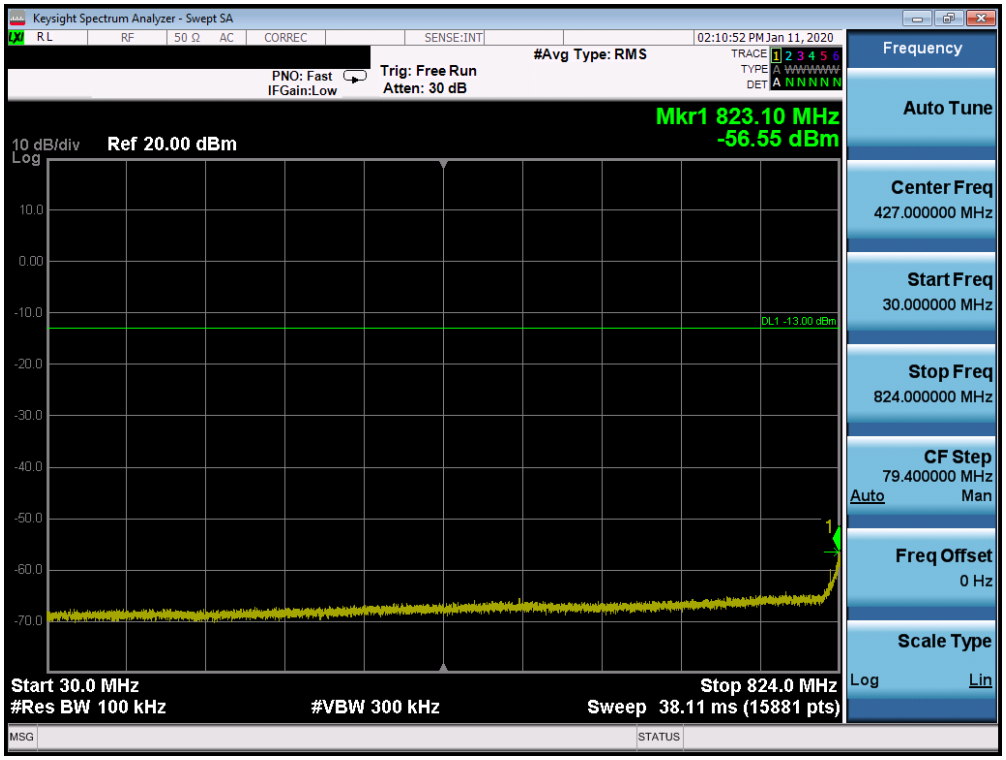
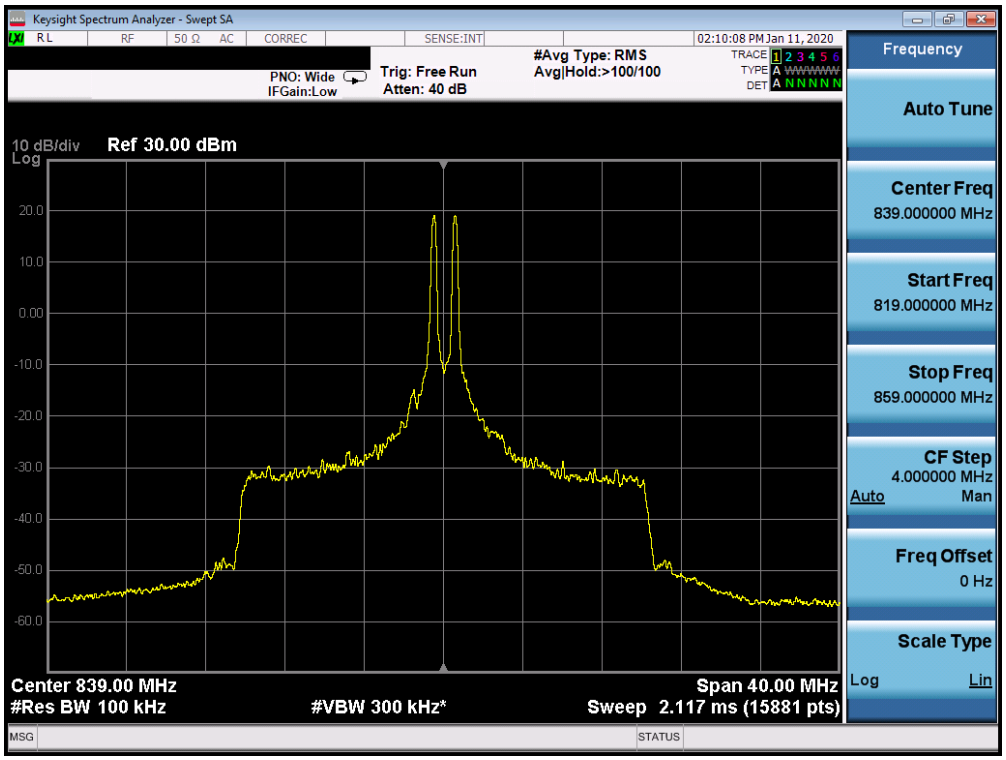


Plot 7-401. Conducted Spurious Plot (Band 5 – 10.0MHz QPSK – PCC 1/49 SCC 1/0 – High Channel)



Plot 7-402. Conducted Spurious Plot (Band 5 – 10.0MHz QPSK – PCC 1/49 SCC 1/0 – High Channel)

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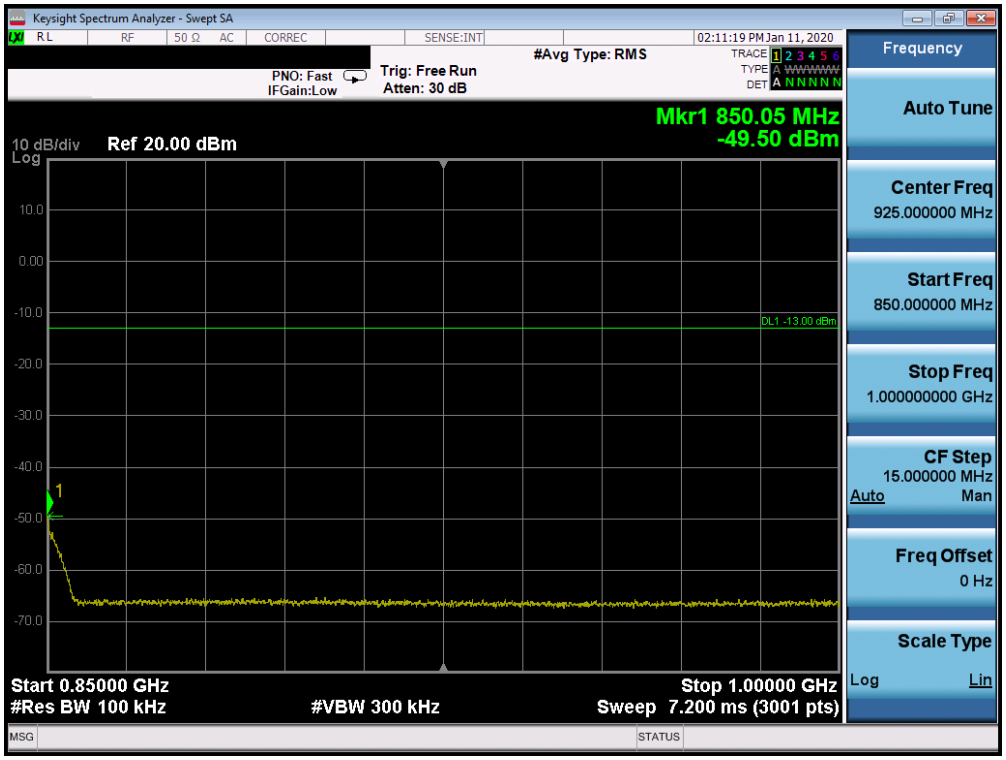

Plot 7-403. Conducted Spurious Plot (Band 5 – 10.0MHz QPSK – PCC 1/49 SCC 1/0 – High Channel)

Plot 7-404. Conducted Spurious Plot (Band 5 – 10.0MHz QPSK – PCC 1/49 SCC 1/0 – High Channel)

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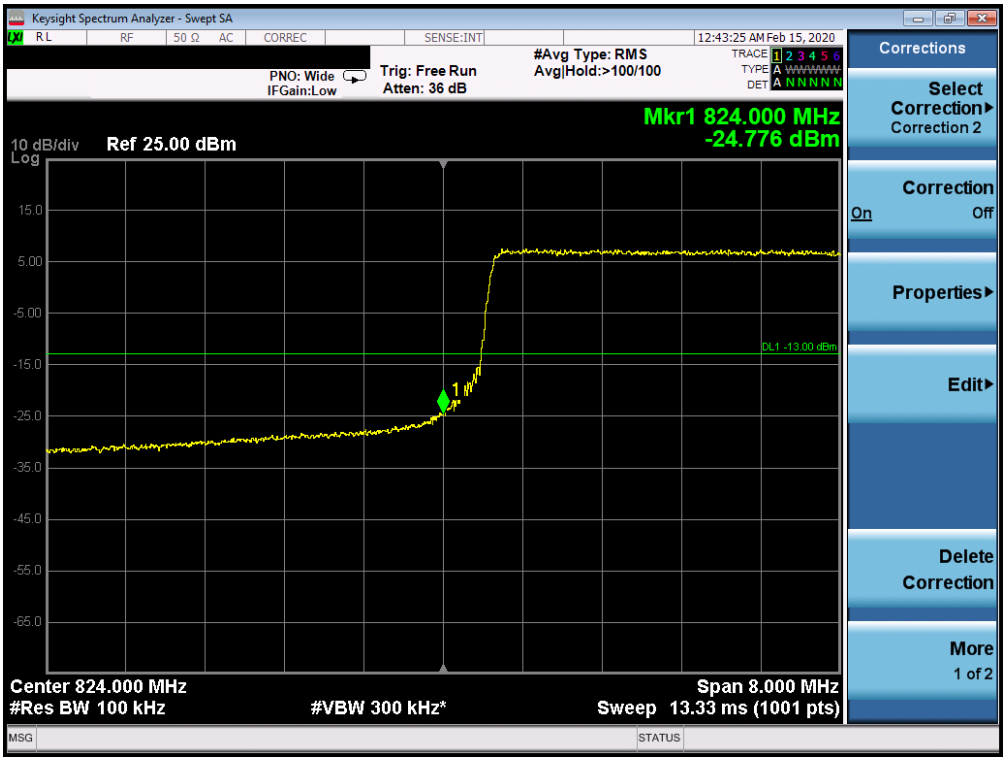
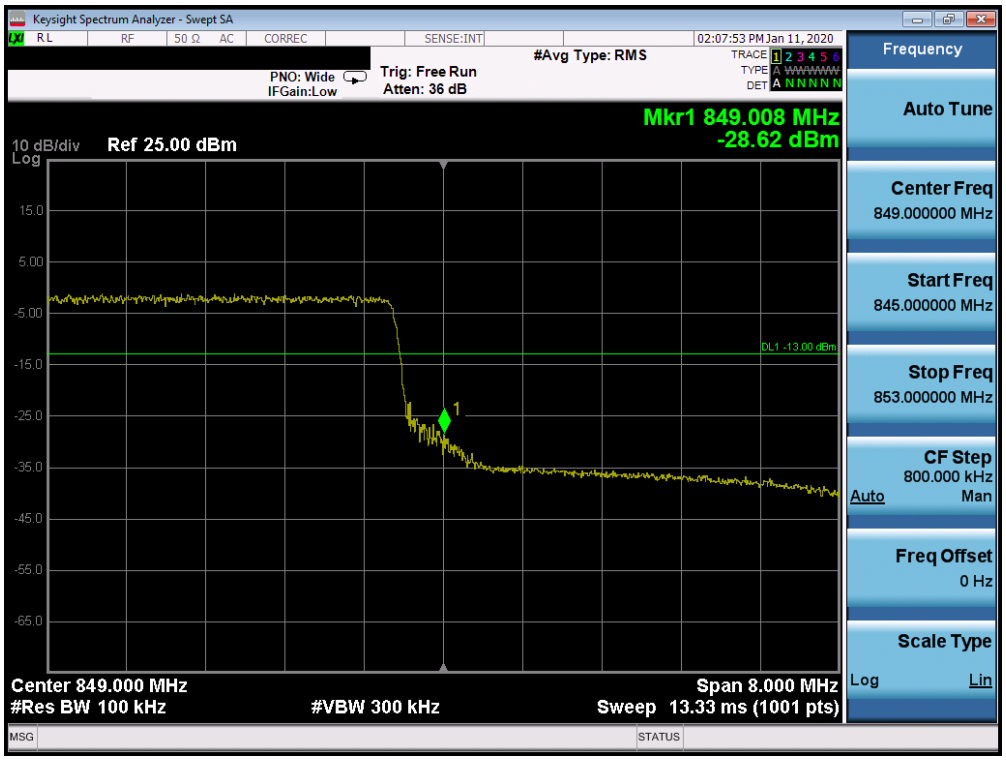


Plot 7-405. Lower ACP Plot (Band 5 QPSK – PCC:10 MHz SCC:10 MHz – Full RB)



Plot 7-406. Upper ACP Plot (Band 5 QPSK – PCC:10 MHz SCC:10 MHz – Full RB)

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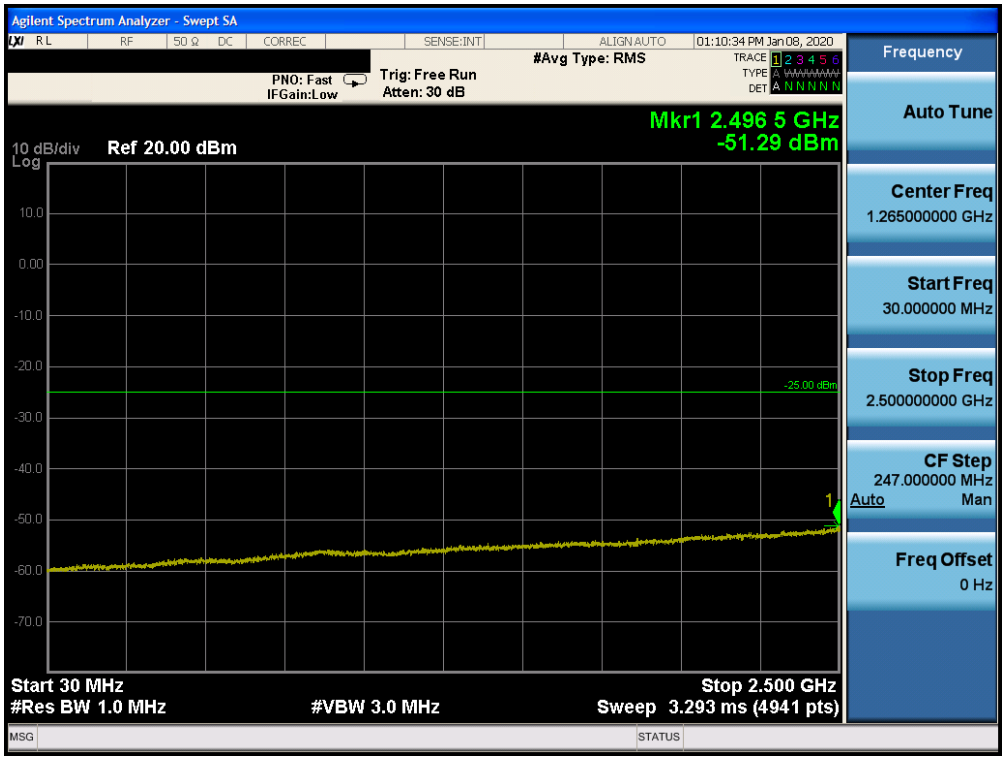
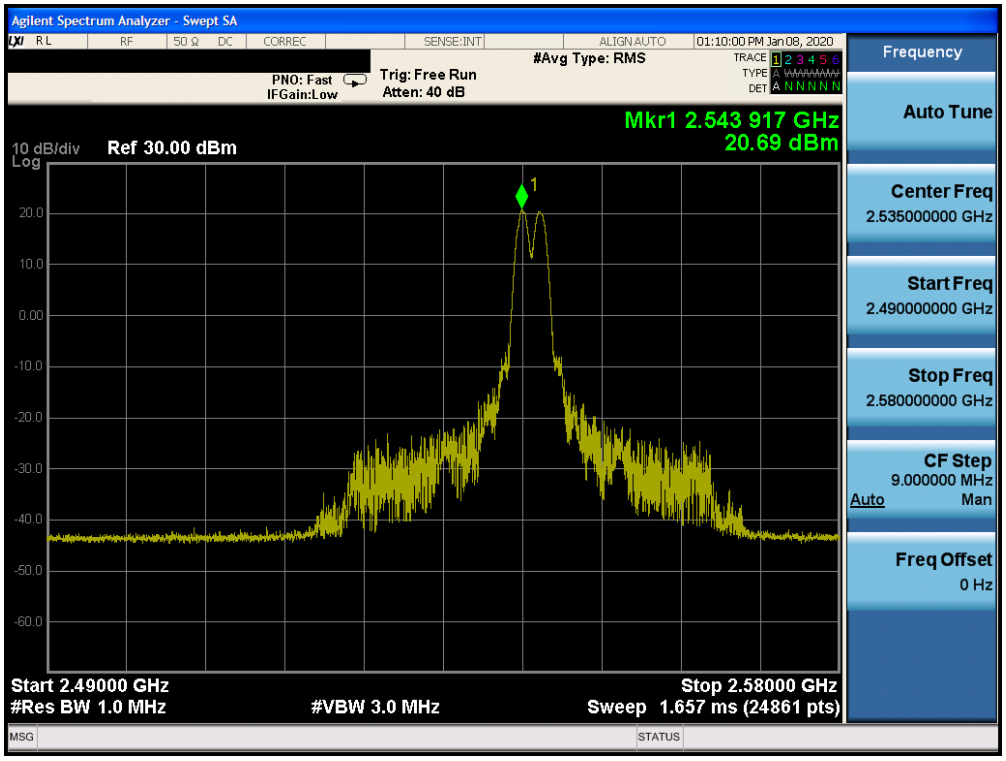
Band 7



Plot 7-407. Conducted Spurious Plot (Band 7 – 20.0MHz QPSK – PCC 1/99 SCC 1/0 – Mid Channel)



Plot 7-408. Conducted Spurious Plot (Band 7 – 20.0MHz QPSK – PCC 1/99 SCC 1/0 – Mid Channel)

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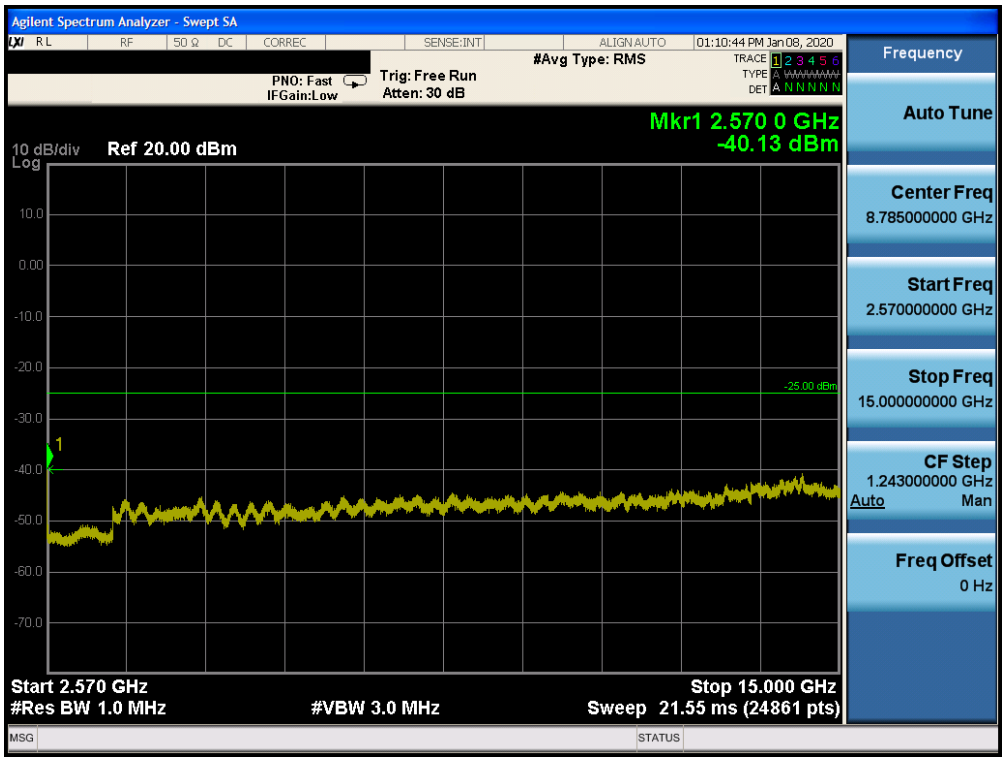
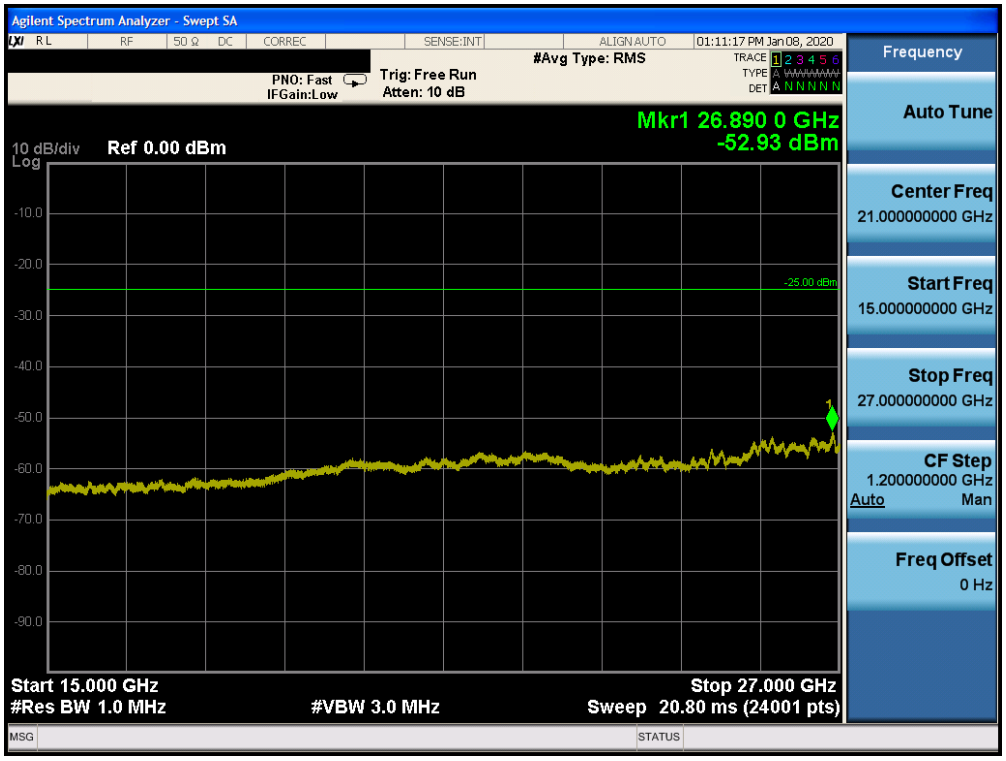


Plot 7-409. Conducted Spurious Plot (Band 7 – 20.0MHz QPSK – PCC 1/99 SCC 1/0 – Mid Channel)



Plot 7-410. Conducted Spurious Plot (Band 7 – 20.0MHz QPSK – PCC 1/99 SCC 1/0 – Mid Channel)

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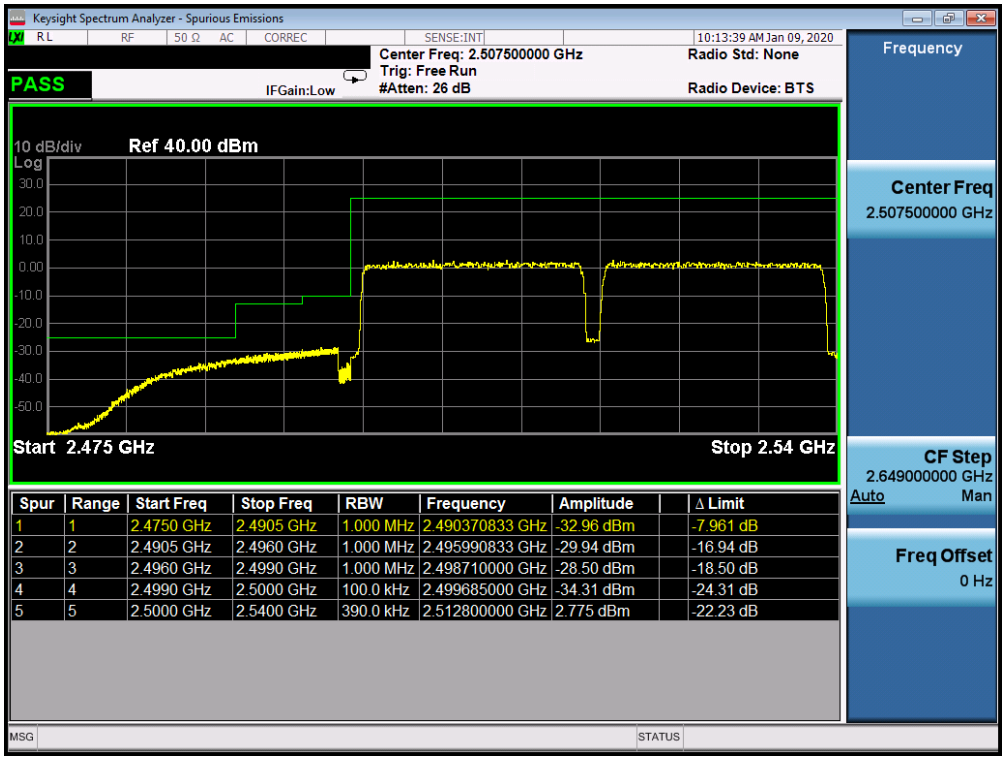

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	2.4750 GHz	2.4905 GHz	1.000 MHz	2.490370833 GHz	-32.96 dBm	-7.961 dB
2	2	2.4905 GHz	2.4960 GHz	1.000 MHz	2.495990833 GHz	-29.94 dBm	-16.94 dB
3	3	2.4960 GHz	2.4990 GHz	1.000 MHz	2.498710000 GHz	-28.50 dBm	-18.50 dB
4	4	2.4990 GHz	2.5000 GHz	100.0 kHz	2.499685000 GHz	-34.31 dBm	-24.31 dB
5	5	2.5000 GHz	2.5400 GHz	390.0 kHz	2.512800000 GHz	2.775 dBm	-22.23 dB

Plot 7-411. Lower ACP Plot (Band 7 QPSK – PCC:20 MHz SCC:20 MHz – Full RB)

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	2.5300 GHz	2.5700 GHz	240.0 kHz	2.535333333 GHz	0.999 dBm	-24.00 dB
2	2	2.5700 GHz	2.5710 GHz	100.0 kHz	2.570300000 GHz	-34.14 dBm	-24.14 dB
3	3	2.5710 GHz	2.5750 GHz	1.000 MHz	2.571066667 GHz	-27.32 dBm	-17.32 dB
4	5	2.5750 GHz	2.5950 GHz	1.000 MHz	2.576233333 GHz	-29.15 dBm	-4.148 dB

Plot 7-412. Upper ACP Plot (Band 7 QPSK – PCC:20 MHz SCC:20 MHz – Full RB)

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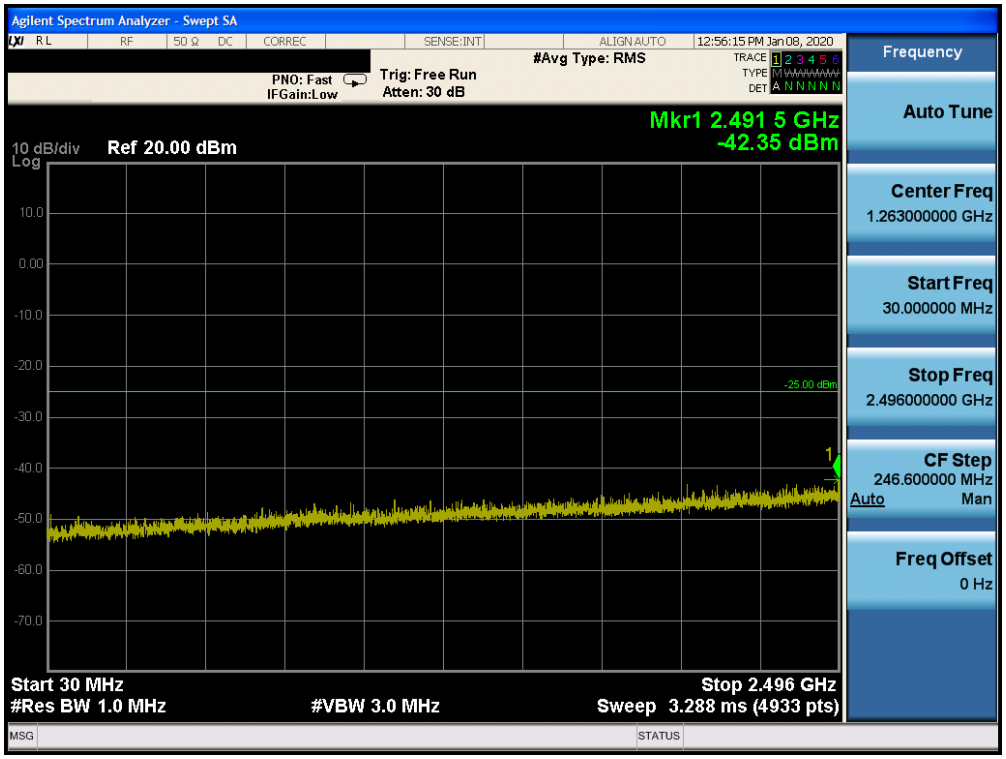
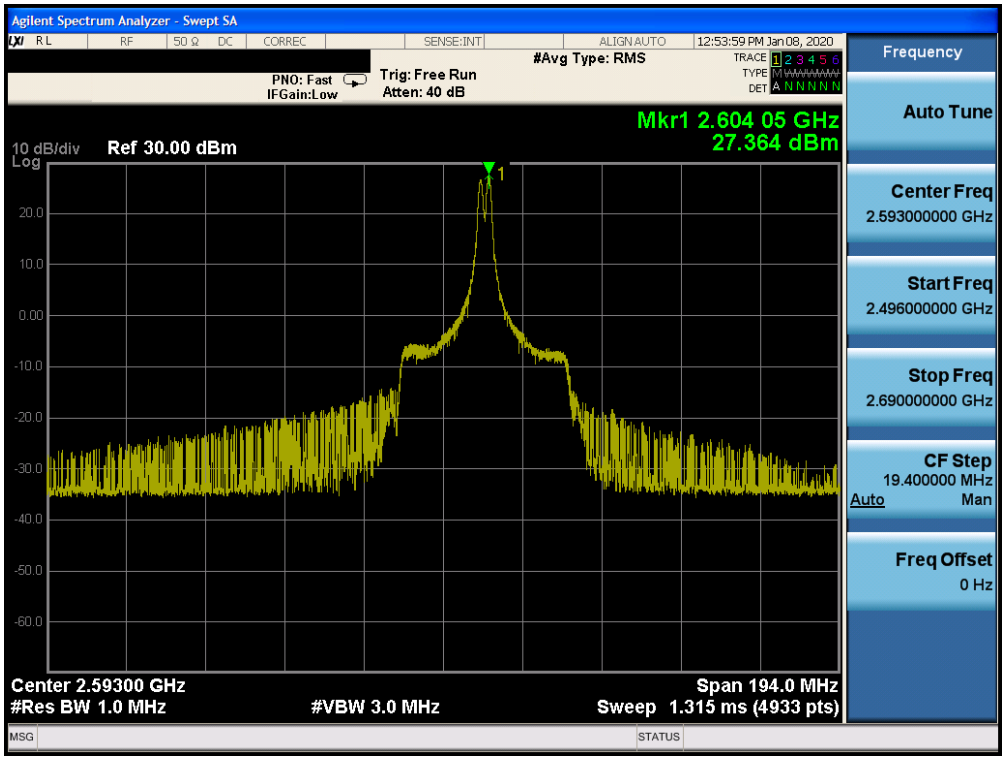
Band 41



Plot 7-413. Conducted Spurious Plot (41 – 20.0MHz QPSK – PCC 1/99 SCC 1/0 – Mid Channel)



Plot 7-414. Conducted Spurious Plot (41 – 20.0MHz QPSK – PCC 1/99 SCC 1/0 – Mid Channel)

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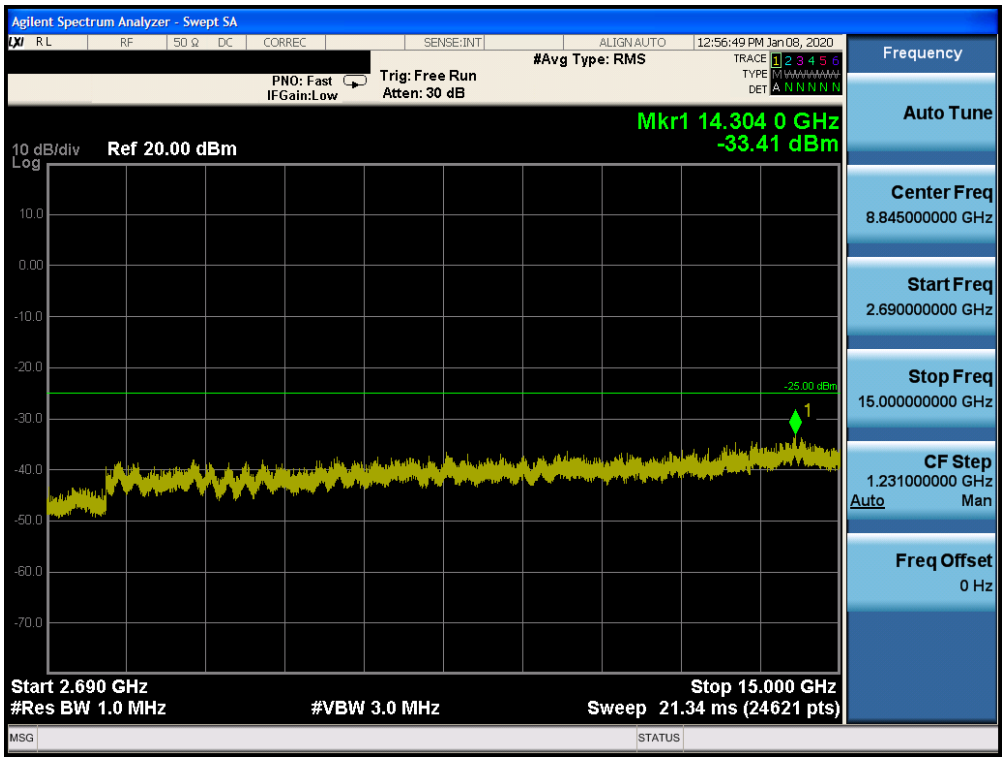
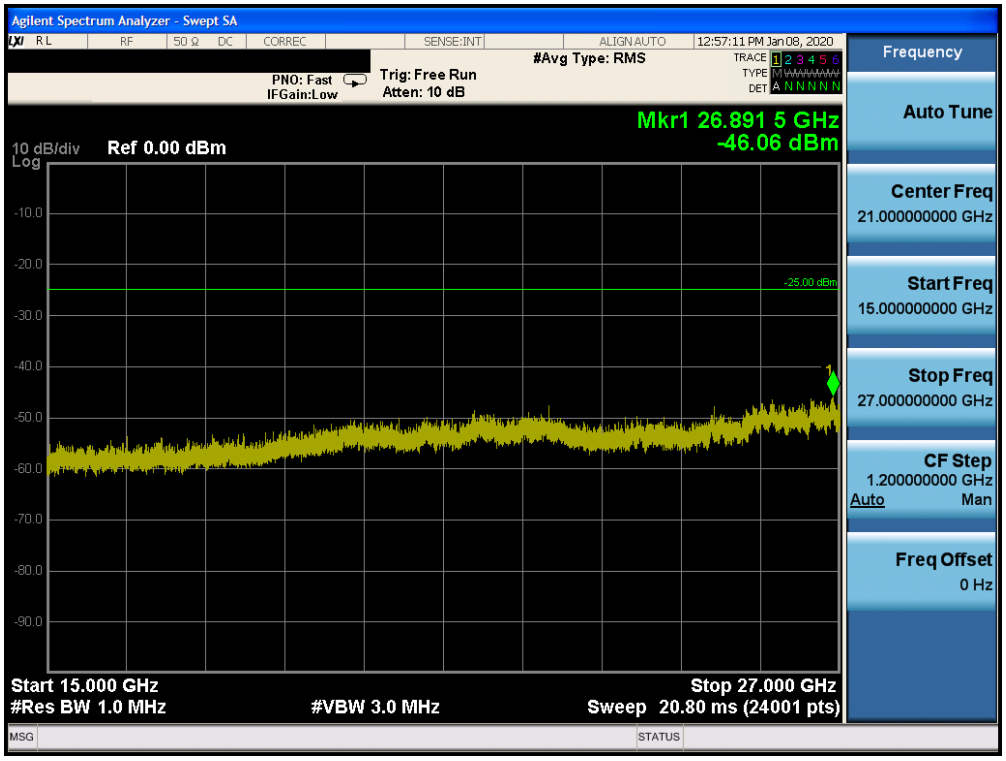


Plot 7-415. Conducted Spurious Plot (41 – 20.0MHz QPSK – PCC 1/99 SCC 1/0 – Mid Channel)



Plot 7-416. Conducted Spurious Plot (41 – 20.0MHz QPSK – PCC 1/99 SCC 1/0 – Mid Channel)

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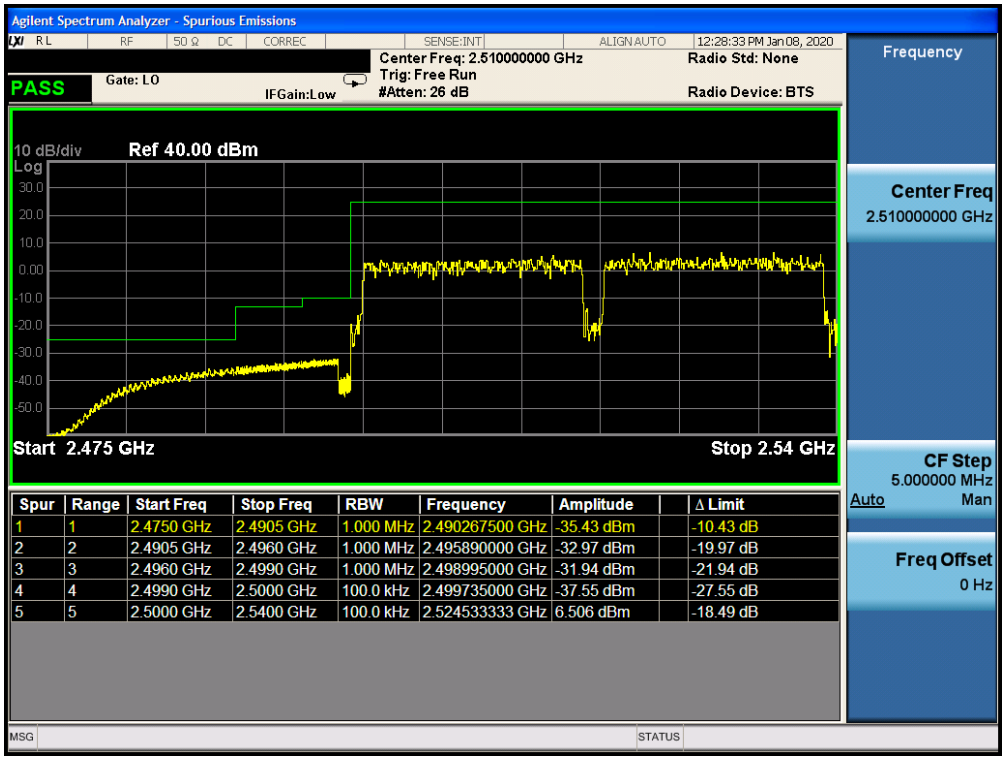
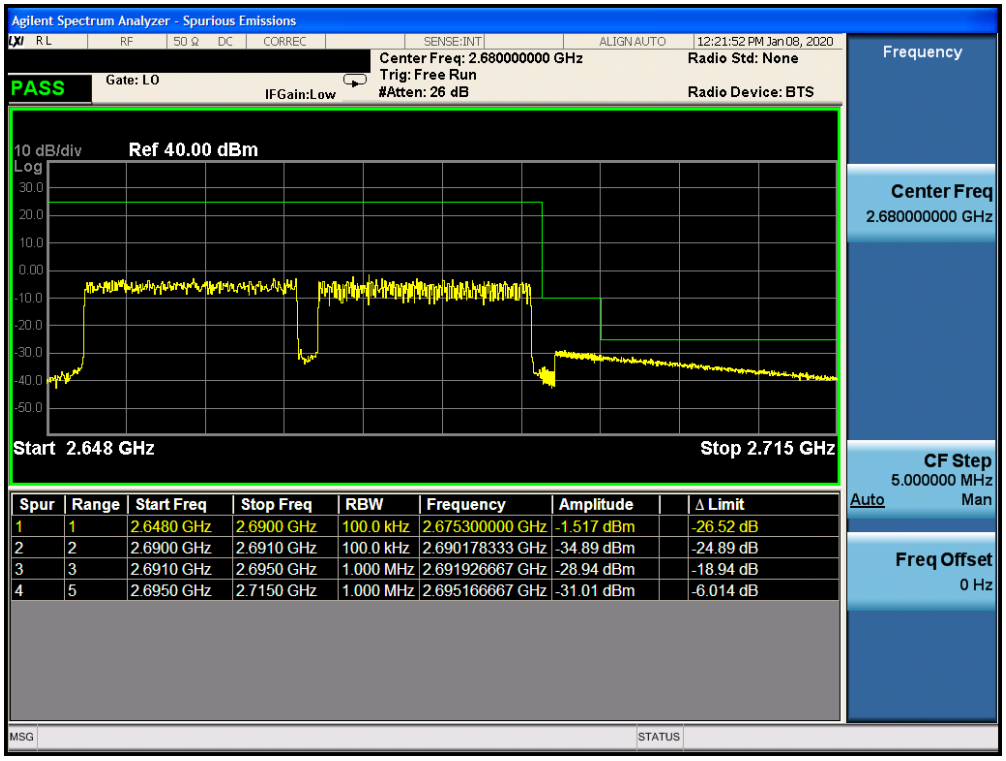


Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	2.4750 GHz	2.4905 GHz	1.000 MHz	2.490267500 GHz	-35.43 dBm	-10.43 dB
2	2	2.4905 GHz	2.4960 GHz	1.000 MHz	2.495890000 GHz	-32.97 dBm	-19.97 dB
3	3	2.4960 GHz	2.4990 GHz	1.000 MHz	2.498995000 GHz	-31.94 dBm	-21.94 dB
4	4	2.4990 GHz	2.5000 GHz	100.0 kHz	2.499735000 GHz	-37.55 dBm	-27.55 dB
5	5	2.5000 GHz	2.5400 GHz	100.0 kHz	2.524533333 GHz	6.506 dBm	-18.49 dB

Plot 7-417. Lower ACP Plot (41 QPSK – PCC:20 MHz SCC:20 MHz – Full RB)



Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	2.6480 GHz	2.6900 GHz	100.0 kHz	2.675300000 GHz	-1.517 dBm	-26.52 dB
2	2	2.6900 GHz	2.6910 GHz	100.0 kHz	2.690178333 GHz	-34.89 dBm	-24.89 dB
3	3	2.6910 GHz	2.6950 GHz	1.000 MHz	2.691926667 GHz	-28.94 dBm	-18.94 dB
4	5	2.6950 GHz	2.7150 GHz	1.000 MHz	2.695166667 GHz	-31.01 dBm	-6.014 dB

Plot 7-418. Upper ACP Plot (41 QPSK – PCC:20 MHz SCC:20 MHz – Full RB)

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7.8 Radiated Power (ERP/EIRP)

Test Overview

Effective Radiated Power (ERP) and Equivalent Isotropic Radiated Power (EIRP) measurements are performed using the substitution method described in ANSI/TIA-603-E-2016 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using vertically and horizontally polarized tuned dipole antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed as RMS average measurements while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies.

Test Procedures Used

KDB 971168 D01 v03r01 – Section 5.2.1

Test Settings

The relevant equation for determining the ERP or EIRP from the conducted RF output power measured is:

ERP/EIRP = PMeas – LC + GT

Where:

ERP/EIRP = effective or equivalen radiated power, respectively (expressed in the same units as PMeas, typically dBW or dBm)

PMeas = measured transmitter output power or PSD, in dBW or dBm

LC = signal attenuation in the connecting cable between the transmitter and antenna in dB

GT = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP)

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

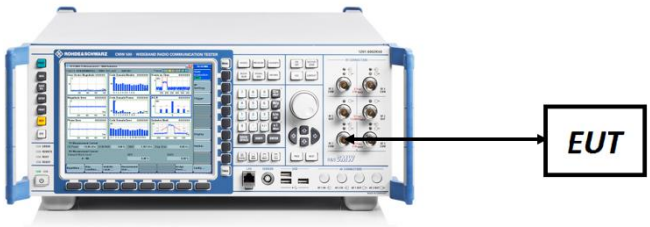

Figure 7-7. ERP/EIRP Measurement Setup

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Test Notes

1) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.

2) This unit was tested with its standard battery.

3) The Level (dBm) readings in the table were taken with a correction table loaded into the base station simulator. The correction table was used to account for the signal attenuation in the connecting cable between the transmitter and antenna.

4) The Ant. Gains (GT) are listed in dBi.

5) Refer to Table 2-3 Section 2.3 of this test report for correlation between Antennas and Ports.

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7.8.1 Port-A Radiated Power (ERP/EIRP)

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
699.70	1.4	QPSK	1 / 5	25.62	-2.30	21.17	0.131	34.77	-13.60	23.32	0.215	36.99	-13.67
707.50	1.4	QPSK	1 / 3	25.62	-2.30	21.17	0.131	34.77	-13.60	23.32	0.215	36.99	-13.67
715.30	1.4	QPSK	1 / 5	25.70	-2.30	**21.25**	**0.133**	34.77	-13.52	**23.40**	**0.219**	36.99	-13.59
715.30	1.4	16-QAM	1 / 5	24.91	-2.30	20.46	0.111	34.77	-14.31	22.61	0.182	36.99	-14.38
715.30	1.4	64-QAM	1 / 5	24.07	-2.30	**19.62**	0.092	34.77	-15.15	**21.77**	0.150	36.99	-15.22
700.50	3	QPSK	1 / 14	25.60	-2.30	21.15	0.130	34.77	-13.62	23.30	0.214	36.99	-13.69
707.50	3	QPSK	1 / 8	25.59	-2.30	21.14	0.130	34.77	-13.63	23.29	0.213	36.99	-13.70
714.50	3	QPSK	1 / 14	25.64	-2.30	**21.19**	0.132	34.77	-13.58	**23.34**	0.216	36.99	-13.65
714.50	3	16-QAM	1 / 14	24.87	-2.30	**20.42**	0.110	34.77	-14.35	**22.57**	0.181	36.99	-14.42
714.50	3	64-QAM	1 / 14	24.05	-2.30	**19.60**	0.091	34.77	-15.17	**21.75**	0.150	36.99	-15.24
701.50	5	QPSK	1 / 24	25.60	-2.30	21.15	0.130	34.77	-13.62	23.30	0.214	36.99	-13.69
707.50	5	QPSK	1 / 12	25.68	-2.30	21.23	0.133	34.77	-13.54	23.38	0.218	36.99	-13.61
713.50	5	QPSK	1 / 24	25.70	-2.30	**21.25**	**0.133**	34.77	-13.52	**23.40**	**0.219**	36.99	-13.59
713.50	5	16-QAM	1 / 24	24.82	-2.30	20.37	0.109	34.77	-14.40	22.52	0.179	36.99	-14.47
713.50	5	64-QAM	1 / 24	24.15	-2.30	**19.70**	0.093	34.77	-15.07	**21.85**	0.153	36.99	-15.14
704.00	10	QPSK	1 / 49	25.53	-2.30	21.08	0.128	34.77	-13.69	23.23	0.210	36.99	-13.76
707.50	10	QPSK	1 / 49	25.47	-2.30	21.02	0.126	34.77	-13.75	23.17	0.207	36.99	-13.82
711.00	10	QPSK	1 / 25	25.61	-2.30	**21.16**	0.131	34.77	-13.61	**23.31**	0.214	36.99	-13.68
711.00	10	16-QAM	1 / 25	24.72	-2.30	20.27	0.106	34.77	-14.50	22.42	0.175	36.99	-14.57
711.00	10	64-QAM	1 / 0	24.20	-2.30	**19.75**	0.094	34.77	-15.02	**21.90**	0.155	36.99	-15.09

Table 7-36. ERP Data (Band 12)

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Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
706.50	5	QPSK	1 / 0	25.68	-2.30	21.23	0.133	34.77	-13.54	23.38	0.218	36.99	-13.61
710.00	5	QPSK	1 / 12	25.70	-2.30	**21.25**	**0.133**	34.77	-13.52	**23.40**	**0.219**	36.99	-13.59
713.50	5	QPSK	1 / 24	25.70	-2.30	**21.25**	**0.133**	34.77	-13.52	**23.40**	**0.219**	36.99	-13.59
710.00	5	16-QAM	1 / 0	24.95	-2.30	**20.50**	0.112	34.77	-14.27	**22.65**	0.184	36.99	-14.34
710.00	5	64-QAM	1 / 0	24.03	-2.30	19.58	0.091	34.77	-15.19	21.73	0.149	36.99	-15.26
709.00	10	QPSK	1 / 0	25.69	-2.30	**21.24**	0.133	34.77	-13.53	**23.39**	0.218	36.99	-13.60
710.00	10	QPSK	1 / 25	25.58	-2.30	21.13	0.130	34.77	-13.64	23.28	0.213	36.99	-13.71
711.00	10	QPSK	1 / 25	25.61	-2.30	21.16	0.131	34.77	-13.61	23.31	0.214	36.99	-13.68
709.00	10	16-QAM	1 / 0	24.95	-2.30	**20.50**	0.112	34.77	-14.27	**22.65**	0.184	36.99	-14.34
709.00	10	64-QAM	1 / 0	23.93	-2.30	19.48	0.089	34.77	-15.29	21.63	0.146	36.99	-15.36

Table 7-37. ERP Data (Band 17)

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
779.50	5	QPSK	1 / 0	25.70	-2.30	**21.25**	**0.133**	34.77	-13.52	**23.40**	**0.219**	36.99	-13.59
782.00	5	QPSK	1 / 0	25.48	-2.30	21.03	0.127	34.77	-13.74	23.18	0.208	36.99	-13.81
784.50	5	QPSK	1 / 24	25.39	-2.30	20.94	0.124	34.77	-13.83	23.09	0.204	36.99	-13.90
779.50	5	16-QAM	1 / 0	24.80	-2.30	**20.35**	0.108	34.77	-14.42	**22.50**	0.178	36.99	-14.49
779.50	5	64-QAM	1 / 0	23.87	-2.30	**19.42**	0.087	34.77	-15.35	**21.57**	0.144	36.99	-15.42
782.00	10	QPSK	1 / 0	25.70	-2.30	**21.25**	**0.133**	34.77	-13.52	**23.40**	**0.219**	36.99	-13.59
782.00	10	16-QAM	1 / 0	24.92	-2.30	**20.47**	0.111	34.77	-14.30	**22.62**	0.183	36.99	-14.37
782.00	10	64-QAM	1 / 49	24.08	-2.30	**19.63**	0.092	34.77	-15.14	**21.78**	0.151	36.99	-15.21

Table 7-38. ERP Data (Band 13)

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Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
824.70	1.4	QPSK	1 / 0	25.70	-1.90	**21.65**	**0.146**	38.45	-16.80	**23.80**	**0.240**	40.61	-16.81
836.50	1.4	QPSK	1 / 0	25.06	-1.90	21.01	0.126	38.45	-17.44	23.16	0.207	40.61	-17.45
848.30	1.4	QPSK	1 / 0	25.29	-1.90	21.24	0.133	38.45	-17.21	23.39	0.218	40.61	-17.22
824.70	1.4	16-QAM	1 / 5	25.16	-1.90	**21.11**	0.129	38.45	-17.34	**23.26**	0.212	40.61	-17.35
824.70	1.4	64-QAM	1 / 5	24.10	-1.90	**20.05**	0.101	38.45	-18.40	**22.20**	0.166	40.61	-18.41
825.50	3	QPSK	1 / 8	25.60	-1.90	21.55	0.143	38.45	-16.90	23.70	0.234	40.61	-16.91
836.50	3	QPSK	1 / 8	25.56	-1.90	21.51	0.142	38.45	-16.94	23.66	0.232	40.61	-16.95
847.50	3	QPSK	1 / 8	25.70	-1.90	**21.65**	**0.146**	38.45	-16.80	**23.80**	**0.240**	40.61	-16.81
847.50	3	16-QAM	1 / 8	25.15	-1.90	**21.10**	0.129	38.45	-17.35	**23.25**	0.211	40.61	-17.36
847.50	3	64-QAM	1 / 8	24.20	-1.90	**20.15**	0.104	38.45	-18.30	**22.30**	0.170	40.61	-18.31
826.50	5	QPSK	1 / 12	25.59	-1.90	21.54	0.143	38.45	-16.91	23.69	0.234	40.61	-16.92
836.50	5	QPSK	1 / 0	25.56	-1.90	21.51	0.142	38.45	-16.94	23.66	0.232	40.61	-16.95
846.50	5	QPSK	1 / 0	25.70	-1.90	**21.65**	**0.146**	38.45	-16.80	**23.80**	**0.240**	40.61	-16.81
846.50	5	16-QAM	1 / 12	25.19	-1.90	**21.14**	0.130	38.45	-17.31	**23.29**	0.213	40.61	-17.32
846.50	5	64-QAM	1 / 0	24.31	-1.90	**20.26**	0.106	38.45	-18.19	**22.41**	0.174	40.61	-18.20
829.00	10	QPSK	1 / 25	25.55	-1.90	21.50	0.141	38.45	-16.95	23.65	0.232	40.61	-16.96
836.50	10	QPSK	1 / 0	25.56	-1.90	21.51	0.142	38.45	-16.94	23.66	0.232	40.61	-16.95
844.00	10	QPSK	1 / 0	25.67	-1.90	**21.62**	0.145	38.45	-16.83	**23.77**	0.238	40.61	-16.84
844.00	10	16-QAM	1 / 0	25.06	-1.90	**21.01**	0.126	38.45	-17.44	**23.16**	0.207	40.61	-17.45
844.00	10	64-QAM	1 / 0	24.12	-1.90	**20.07**	0.102	38.45	-18.38	**22.22**	0.167	40.61	-18.39

Table 7-39. ERP Data (Band 5)

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Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
824.70	1.4	QPSK	1 / 5	25.60	-1.90	21.55	0.143	38.45	-16.90	23.70	0.234	40.61	-16.91
836.50	1.4	QPSK	1 / 5	25.48	-1.90	21.43	0.139	38.45	-17.02	23.58	0.228	40.61	-17.03
848.30	1.4	QPSK	1 / 3	25.70	-1.90	**21.65**	**0.146**	38.45	-16.80	**23.80**	**0.240**	40.61	-16.81
848.30	1.4	16-QAM	1 / 0	25.58	-1.90	**21.53**	0.142	38.45	-16.92	**23.68**	0.233	40.61	-16.93
848.30	1.4	64-QAM	1 / 5	24.01	-1.90	**19.96**	0.099	38.45	-18.49	**22.11**	0.163	40.61	-18.50
825.50	3	QPSK	1 / 8	25.61	-1.90	21.56	0.143	38.45	-16.89	23.71	0.235	40.61	-16.90
836.50	3	QPSK	1 / 8	25.49	-1.90	21.44	0.139	38.45	-17.01	23.59	0.229	40.61	-17.02
847.50	3	QPSK	1 / 8	25.67	-1.90	**21.62**	0.145	38.45	-16.83	**23.77**	0.238	40.61	-16.84
847.50	3	16-QAM	1 / 8	25.50	-1.90	**21.45**	0.140	38.45	-17.00	**23.60**	0.229	40.61	-17.01
847.50	3	64-QAM	1 / 14	24.07	-1.90	**20.02**	0.100	38.45	-18.43	**22.17**	0.165	40.61	-18.44
826.50	5	QPSK	1 / 24	25.58	-1.90	21.53	0.142	38.45	-16.92	23.68	0.233	40.61	-16.93
836.50	5	QPSK	1 / 12	25.62	-1.90	**21.57**	0.144	38.45	-16.88	**23.72**	0.236	40.61	-16.89
846.50	5	QPSK	1 / 0	25.61	-1.90	21.56	0.143	38.45	-16.89	23.71	0.235	40.61	-16.90
836.50	5	16-QAM	1 / 12	25.33	-1.90	**21.28**	0.134	38.45	-17.17	**23.43**	0.220	40.61	-17.18
836.50	5	64-QAM	1 / 24	23.67	-1.90	19.62	0.092	38.45	-18.83	21.77	0.150	40.61	-18.84
829.00	10	QPSK	1 / 49	25.55	-1.90	**21.50**	0.141	38.45	-16.95	**23.65**	0.232	40.61	-16.96
836.50	10	QPSK	1 / 49	25.51	-1.90	21.46	0.140	38.45	-16.99	23.61	0.230	40.61	-17.00
844.00	10	QPSK	1 / 0	25.52	-1.90	21.47	0.140	38.45	-16.98	23.62	0.230	40.61	-16.99
829.00	10	16-QAM	1 / 49	25.32	-1.90	21.27	0.134	38.45	-17.18	23.42	0.220	40.61	-17.19
829.00	10	64-QAM	1 / 25	23.58	-1.90	19.53	0.090	38.45	-18.92	21.68	0.147	40.61	-18.93

Table 7-40. ERP Data (Band 26)

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Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1710.70	1.4	QPSK	1 / 5	25.55	-2.80	22.75	0.188	30.00	-7.25
1732.50	1.4	QPSK	1 / 0	25.69	-2.80	22.89	0.195	30.00	-7.11
1754.30	1.4	QPSK	1 / 0	25.70	-2.80	**22.90**	**0.195**	30.00	-7.10
1754.30	1.4	16-QAM	1 / 3	24.74	-2.80	21.94	0.156	30.00	-8.06
1754.30	1.4	64-QAM	1 / 3	23.79	-2.80	20.99	0.126	30.00	-9.01
1711.50	3	QPSK	1 / 8	25.55	-2.80	22.75	0.188	30.00	-7.25
1732.50	3	QPSK	1 / 8	25.64	-2.80	**22.84**	0.192	30.00	-7.16
1753.50	3	QPSK	1 / 8	25.52	-2.80	22.72	0.187	30.00	-7.28
1732.50	3	16-QAM	1 / 8	24.65	-2.80	21.85	0.153	30.00	-8.15
1732.50	3	64-QAM	1 / 8	23.62	-2.80	20.82	0.121	30.00	-9.18
1712.50	5	QPSK	1 / 24	25.58	-2.80	22.78	0.190	30.00	-7.22
1732.50	5	QPSK	1 / 24	25.61	-2.80	22.81	0.191	30.00	-7.19
1752.50	5	QPSK	1 / 12	25.70	-2.80	**22.90**	**0.195**	30.00	-7.10
1752.50	5	16-QAM	1 / 0	24.88	-2.80	22.08	0.161	30.00	-7.92
1752.50	5	64-QAM	1 / 24	23.99	-2.80	**21.19**	0.132	30.00	-8.81
1715.00	10	QPSK	1 / 25	25.47	-2.80	22.67	0.185	30.00	-7.33
1732.50	10	QPSK	1 / 49	25.70	-2.80	**22.90**	**0.195**	30.00	-7.10
1750.00	10	QPSK	1 / 49	25.54	-2.80	22.74	0.188	30.00	-7.26
1732.50	10	16-QAM	1 / 25	24.76	-2.80	21.96	0.157	30.00	-8.04
1732.50	10	64-QAM	1 / 25	23.87	-2.80	21.07	0.128	30.00	-8.93
1717.50	15	QPSK	1 / 74	25.55	-2.80	22.75	0.188	30.00	-7.25
1732.50	15	QPSK	1 / 0	25.63	-2.80	**22.83**	0.192	30.00	-7.17
1747.50	15	QPSK	1 / 0	25.52	-2.80	22.72	0.187	30.00	-7.28
1732.50	15	16-QAM	1 / 0	24.64	-2.80	21.84	0.153	30.00	-8.16
1732.50	15	64-QAM	1 / 38	23.74	-2.80	20.94	0.124	30.00	-9.06
1720.00	20	QPSK	1 / 0	25.53	-2.80	22.73	0.187	30.00	-7.27
1732.50	20	QPSK	1 / 0	25.58	-2.80	22.78	0.190	30.00	-7.22
1745.00	20	QPSK	1 / 0	25.70	-2.80	**22.90**	**0.195**	30.00	-7.10
1745.00	20	16-QAM	1 / 0	24.74	-2.80	21.94	0.156	30.00	-8.06
1745.00	20	64-QAM	1 / 99	23.71	-2.80	20.91	0.123	30.00	-9.09

Table 7-41. EIRP Data (Band 4)

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Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1710.70	1.4	QPSK	1 / 5	25.69	-2.80	22.89	0.195	30.00	-7.11
1745.00	1.4	QPSK	1 / 0	25.70	-2.80	**22.90**	**0.195**	30.00	-7.10
1779.30	1.4	QPSK	1 / 5	25.66	-2.80	22.86	0.193	30.00	-7.14
1745.00	1.4	16-QAM	1 / 0	24.96	-2.80	**22.16**	0.164	30.00	-7.84
1745.00	1.4	64-QAM	1 / 5	24.12	-2.80	21.32	0.136	30.00	-8.68
1711.50	3	QPSK	1 / 8	25.64	-2.80	22.84	0.192	30.00	-7.16
1745.00	3	QPSK	1 / 8	25.70	-2.80	**22.90**	**0.195**	30.00	-7.10
1778.50	3	QPSK	1 / 8	25.40	-2.80	22.60	0.182	30.00	-7.40
1745.00	3	16-QAM	1 / 8	24.79	-2.80	21.99	0.158	30.00	-8.01
1745.00	3	64-QAM	1 / 14	23.98	-2.80	21.18	0.131	30.00	-8.82
1712.50	5	QPSK	1 / 24	25.70	-2.80	**22.90**	**0.195**	30.00	-7.10
1745.00	5	QPSK	1 / 24	25.69	-2.80	22.89	0.195	30.00	-7.11
1777.50	5	QPSK	1 / 24	25.70	-2.80	**22.90**	**0.195**	30.00	-7.10
1712.50	5	16-QAM	1 / 24	25.01	-2.80	**22.21**	0.166	30.00	-7.79
1712.50	5	64-QAM	1 / 24	24.22	-2.80	21.42	0.139	30.00	-8.58
1715.00	10	QPSK	1 / 49	25.66	-2.80	**22.86**	0.193	30.00	-7.14
1745.00	10	QPSK	1 / 49	25.63	-2.80	22.83	0.192	30.00	-7.17
1775.00	10	QPSK	1 / 49	25.65	-2.80	22.85	0.193	30.00	-7.15
1715.00	10	16-QAM	1 / 49	24.87	-2.80	22.07	0.161	30.00	-7.93
1715.00	10	64-QAM	1 / 49	24.25	-2.80	21.45	0.140	30.00	-8.55
1717.50	15	QPSK	1 / 74	25.65	-2.80	22.85	0.193	30.00	-7.15
1745.00	15	QPSK	1 / 74	25.70	-2.80	**22.90**	**0.195**	30.00	-7.10
1772.50	15	QPSK	1 / 38	25.67	-2.80	22.87	0.194	30.00	-7.13
1745.00	15	16-QAM	1 / 74	24.81	-2.80	22.01	0.159	30.00	-7.99
1745.00	15	64-QAM	1 / 0	24.05	-2.80	21.25	0.133	30.00	-8.75
1720.00	20	QPSK	1 / 99	25.69	-2.80	22.89	0.195	30.00	-7.11
1745.00	20	QPSK	1 / 0	25.70	-2.80	**22.90**	**0.195**	30.00	-7.10
1770.00	20	QPSK	1 / 99	25.67	-2.80	22.87	0.194	30.00	-7.13
1745.00	20	16-QAM	1 / 99	24.96	-2.80	22.16	0.164	30.00	-7.84
1745.00	20	64-QAM	1 / 50	24.18	-2.80	21.38	0.137	30.00	-8.62

Table 7-42. EIRP Data (Band 66)

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Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1850.70	1.4	QPSK	1 / 3	25.55	-0.90	24.65	0.292	33.01	-8.36
1880.00	1.4	QPSK	1 / 0	25.58	-0.90	**24.68**	0.294	33.01	-8.33
1909.30	1.4	QPSK	1 / 5	25.58	-0.90	**24.68**	0.294	33.01	-8.33
1880.00	1.4	16-QAM	1 / 0	24.81	-0.90	23.91	0.246	33.01	-9.10
1880.00	1.4	64-QAM	1 / 3	23.91	-0.90	23.01	0.200	33.01	-10.00
1851.50	3	QPSK	1 / 8	25.55	-0.90	24.65	0.292	33.01	-8.36
1880.00	3	QPSK	1 / 8	25.58	-0.90	**24.68**	0.294	33.01	-8.33
1908.50	3	QPSK	1 / 8	25.48	-0.90	24.58	0.287	33.01	-8.43
1880.00	3	16-QAM	1 / 8	24.91	-0.90	**24.01**	0.252	33.01	-9.00
1880.00	3	64-QAM	1 / 8	23.90	-0.90	23.00	0.200	33.01	-10.01
1852.50	5	QPSK	1 / 12	25.58	-0.90	**24.68**	0.294	33.01	-8.33
1880.00	5	QPSK	1 / 12	25.56	-0.90	24.66	0.292	33.01	-8.35
1907.50	5	QPSK	1 / 12	25.44	-0.90	24.54	0.284	33.01	-8.47
1852.50	5	16-QAM	1 / 0	24.91	-0.90	**24.01**	0.252	33.01	-9.00
1852.50	5	64-QAM	1 / 0	23.98	-0.90	**23.08**	0.203	33.01	-9.93
1855.00	10	QPSK	1 / 49	25.56	-0.90	24.66	0.292	33.01	-8.35
1880.00	10	QPSK	1 / 49	25.58	-0.90	**24.68**	0.294	33.01	-8.33
1905.00	10	QPSK	1 / 25	25.58	-0.90	**24.68**	0.294	33.01	-8.33
1880.00	10	16-QAM	1 / 25	24.89	-0.90	**23.99**	0.251	33.01	-9.02
1880.00	10	64-QAM	1 / 25	24.19	-0.90	**23.29**	0.213	33.01	-9.72
1857.50	15	QPSK	1 / 74	25.49	-0.90	24.59	0.288	33.01	-8.42
1880.00	15	QPSK	1 / 74	25.70	-0.90	**24.80**	**0.302**	33.01	-8.21
1902.50	15	QPSK	1 / 74	25.55	-0.90	24.65	0.292	33.01	-8.36
1880.00	15	16-QAM	1 / 38	24.98	-0.90	**24.08**	0.256	33.01	-8.93
1880.00	15	64-QAM	1 / 0	23.96	-0.90	**23.06**	0.202	33.01	-9.95
1860.00	20	QPSK	1 / 0	25.51	-0.90	24.61	0.289	33.01	-8.40
1880.00	20	QPSK	1 / 0	25.58	-0.90	**24.68**	0.294	33.01	-8.33
1900.00	20	QPSK	1 / 0	25.58	-0.90	**24.68**	0.294	33.01	-8.33
1880.00	20	16-QAM	1 / 50	24.91	-0.90	24.01	0.252	33.01	-9.00
1880.00	20	64-QAM	1 / 50	23.77	-0.90	22.87	0.194	33.01	-10.14

Table 7-43. EIRP Data (Band 2)

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Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1850.70	1.4	QPSK	1 / 5	25.59	-0.90	24.69	0.294	33.01	-8.32
1882.50	1.4	QPSK	1 / 5	25.58	-0.90	24.68	0.294	33.01	-8.33
1914.30	1.4	QPSK	1 / 0	25.70	-0.90	**24.80**	**0.302**	33.01	-8.21
1914.30	1.4	16-QAM	1 / 0	24.99	-0.90	24.09	0.256	33.01	-8.92
1914.30	1.4	64-QAM	1 / 0	23.94	-0.90	23.04	0.201	33.01	-9.97
1851.50	3	QPSK	1 / 0	25.52	-0.90	24.62	0.290	33.01	-8.39
1882.50	3	QPSK	1 / 0	25.64	-0.90	**24.74**	0.298	33.01	-8.27
1913.50	3	QPSK	1 / 14	25.54	-0.90	24.64	0.291	33.01	-8.37
1882.50	3	16-QAM	1 / 0	24.47	-0.90	23.57	0.228	33.01	-9.44
1882.50	3	64-QAM	1 / 0	23.66	-0.90	**22.76**	0.189	33.01	-10.25
1852.50	5	QPSK	1 / 0	25.59	-0.90	24.69	0.294	33.01	-8.32
1882.50	5	QPSK	1 / 0	25.70	-0.90	**24.80**	**0.302**	33.01	-8.21
1912.50	5	QPSK	1 / 24	25.67	-0.90	24.77	0.300	33.01	-8.24
1882.50	5	16-QAM	1 / 0	25.21	-0.90	**24.31**	0.270	33.01	-8.70
1882.50	5	64-QAM	1 / 0	24.07	-0.90	**23.17**	0.207	33.01	-9.84
1855.00	10	QPSK	1 / 0	25.49	-0.90	24.59	0.288	33.01	-8.42
1882.50	10	QPSK	1 / 0	25.43	-0.90	24.53	0.284	33.01	-8.48
1910.00	10	QPSK	1 / 49	25.70	-0.90	**24.80**	**0.302**	33.01	-8.21
1910.00	10	16-QAM	1 / 49	25.06	-0.90	24.16	0.261	33.01	-8.85
1910.00	10	64-QAM	1 / 49	24.02	-0.90	23.12	0.205	33.01	-9.89
1857.50	15	QPSK	1 / 0	25.70	-0.90	**24.80**	**0.302**	33.01	-8.21
1882.50	15	QPSK	1 / 0	25.61	-0.90	24.71	0.296	33.01	-8.30
1907.50	15	QPSK	1 / 74	25.70	-0.90	**24.80**	**0.302**	33.01	-8.21
1857.50	15	16-QAM	1 / 0	25.08	-0.90	24.18	0.262	33.01	-8.83
1857.50	15	64-QAM	1 / 0	24.09	-0.90	**23.19**	0.208	33.01	-9.82
1860.00	20	QPSK	1 / 99	25.70	-0.90	**24.80**	**0.302**	33.01	-8.21
1882.50	20	QPSK	1 / 0	25.53	-0.90	24.63	0.290	33.01	-8.38
1905.00	20	QPSK	1 / 0	25.70	-0.90	**24.80**	**0.302**	33.01	-8.21
1860.00	20	16-QAM	1 / 0	25.15	-0.90	24.25	0.266	33.01	-8.76
1860.00	20	64-QAM	1 / 99	24.20	-0.90	**23.30**	0.214	33.01	-9.71

Table 7-44. EIRP Data (Band 25)

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Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
2307.50	5	QPSK	1 / 24	22.39	0.50	22.89	0.195	23.98	-1.09
2312.50	5	QPSK	1 / 24	22.50	0.50	**23.00**	**0.200**	23.98	-0.98
2312.50	5	16-QAM	1 / 24	21.86	0.50	**22.36**	0.172	23.98	-1.62
2312.50	5	64-QAM	1 / 24	20.90	0.50	21.40	0.138	23.98	-2.58
2310.00	10	QPSK	1 / 49	22.49	0.50	**22.99**	0.199	23.98	-0.99
2310.00	10	16-QAM	1 / 49	21.92	0.50	22.42	0.175	23.98	-1.56
2310.00	10	64-QAM	1 / 49	20.90	0.50	21.40	0.138	23.98	-2.58

Table 7-45. EIRP Data (Band 30)

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Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
2502.50	5	QPSK	1 / 0	25.52	0.70	26.22	0.419	33.01	-6.79
2535.00	5	QPSK	1 / 0	25.67	0.70	**26.37**	0.434	33.01	-6.64
2567.50	5	QPSK	1 / 0	25.67	0.70	**26.37**	0.434	33.01	-6.64
2535.00	5	16-QAM	1 / 0	25.20	0.70	**25.90**	0.389	33.01	-7.11
2535.00	5	64-QAM	1 / 24	24.02	0.70	**24.72**	0.296	33.01	-8.29
2505.00	10	QPSK	1 / 0	25.50	0.70	26.20	0.417	33.01	-6.81
2535.00	10	QPSK	1 / 0	25.66	0.70	26.36	0.433	33.01	-6.65
2565.00	10	QPSK	1 / 49	25.70	0.70	**26.40**	**0.437**	33.01	-6.61
2565.00	10	16-QAM	1 / 0	25.24	0.70	**25.94**	0.393	33.01	-7.07
2565.00	10	64-QAM	1 / 49	23.93	0.70	24.63	0.290	33.01	-8.38
2507.50	15	QPSK	1 / 74	25.67	0.70	26.37	0.434	33.01	-6.64
2535.00	15	QPSK	1 / 0	25.70	0.70	**26.40**	**0.437**	33.01	-6.61
2562.50	15	QPSK	1 / 74	25.54	0.70	26.24	0.421	33.01	-6.77
2535.00	15	16-QAM	1 / 0	25.02	0.70	25.72	0.373	33.01	-7.29
2535.00	15	64-QAM	1 / 0	24.05	0.70	24.75	0.299	33.01	-8.26
2510.00	20	QPSK	1 / 0	25.40	0.70	26.10	0.407	33.01	-6.91
2535.00	20	QPSK	1 / 0	25.69	0.70	26.39	0.436	33.01	-6.62
2560.00	20	QPSK	1 / 0	25.70	0.70	**26.40**	**0.437**	33.01	-6.61
2560.00	20	16-QAM	1 / 99	25.32	0.70	**26.02**	0.400	33.01	-6.99
2560.00	20	64-QAM	1 / 0	23.89	0.70	24.59	0.288	33.01	-8.42

Table 7-46. EIRP Data (Band 7)

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Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
2498.50	5	QPSK	1 / 0	27.69	0.70	28.39	0.690	33.01	-4.62
2593.00	5	QPSK	1 / 0	28.68	0.70	**29.38**	**0.867**	33.01	-3.63
2687.50	5	QPSK	1 / 0	28.62	0.70	29.32	0.855	33.01	-3.69
2593.00	5	16-QAM	1 / 0	27.76	0.70	**28.46**	0.701	33.01	-4.55
2593.00	5	64-QAM	1 / 0	26.84	0.70	**27.54**	0.568	33.01	-5.47
2501.00	10	QPSK	1 / 0	27.70	0.70	28.40	0.692	33.01	-4.61
2593.00	10	QPSK	1 / 0	28.51	0.70	29.21	0.834	33.01	-3.80
2685.00	10	QPSK	1 / 0	28.55	0.70	**29.25**	0.841	33.01	-3.76
2685.00	10	16-QAM	1 / 0	27.76	0.70	28.46	0.701	33.01	-4.55
2685.00	10	64-QAM	1 / 0	26.72	0.70	27.42	0.552	33.01	-5.59
2503.50	15	QPSK	1 / 0	27.70	0.70	28.40	0.692	33.01	-4.61
2593.00	15	QPSK	1 / 0	28.55	0.70	29.25	0.841	33.01	-3.76
2682.50	15	QPSK	1 / 0	28.57	0.70	**29.27**	0.845	33.01	-3.74
2682.50	15	16-QAM	1 / 0	27.76	0.70	28.46	0.701	33.01	-4.55
2682.50	15	64-QAM	1 / 0	26.77	0.70	**27.47**	0.558	33.01	-5.54
2506.00	20	QPSK	1 / 0	27.56	0.70	28.26	0.670	33.01	-4.75
2593.00	20	QPSK	1 / 0	28.65	0.70	**29.35**	0.861	33.01	-3.66
2680.00	20	QPSK	1 / 0	28.65	0.70	**29.35**	0.861	33.01	-3.66
2593.00	20	16-QAM	1 / 0	27.89	0.70	**28.59**	0.723	33.01	-4.42
2593.00	20	64-QAM	1 / 0	26.99	0.70	27.69	0.587	33.01	-5.32

Table 7-47. EIRP Data (Band 41 PC2)

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Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
2498.50	5	QPSK	1 / 24	25.64	0.70	26.34	0.431	33.01	-6.67
2593.00	5	QPSK	1 / 24	25.66	0.70	**26.36**	0.433	33.01	-6.65
2687.50	5	QPSK	1 / 0	25.60	0.70	26.30	0.427	33.01	-6.71
2593.00	5	16-QAM	1 / 0	24.81	0.70	25.51	0.356	33.01	-7.50
2593.00	5	64-QAM	1 / 24	24.25	0.70	**24.95**	0.313	33.01	-8.06
2501.00	10	QPSK	1 / 0	25.67	0.70	26.37	0.434	33.01	-6.64
2593.00	10	QPSK	1 / 49	25.65	0.70	26.35	0.432	33.01	-6.66
2685.00	10	QPSK	1 / 49	25.68	0.70	26.38	0.435	33.01	-6.63
2685.00	10	16-QAM	1 / 0	25.22	0.70	25.92	0.391	33.01	-7.09
2685.00	10	64-QAM	1 / 49	24.16	0.70	**24.86**	0.306	33.01	-8.15
2503.50	15	QPSK	1 / 0	25.70	0.70	**26.40**	**0.437**	33.01	-6.61
2593.00	15	QPSK	1 / 74	25.50	0.70	26.20	0.417	33.01	-6.81
2682.50	15	QPSK	1 / 0	25.53	0.70	26.23	0.420	33.01	-6.78
2682.50	15	16-QAM	1 / 0	25.17	0.70	**25.87**	0.386	33.01	-7.14
2682.50	15	64-QAM	1 / 74	24.06	0.70	24.76	0.299	33.01	-8.25
2506.00	20	QPSK	1 / 0	25.70	0.70	**26.40**	**0.437**	33.01	-6.61
2593.00	20	QPSK	1 / 99	25.65	0.70	26.35	0.432	33.01	-6.66
2680.00	20	QPSK	1 / 0	25.59	0.70	26.29	0.426	33.01	-6.72
2593.00	20	16-QAM	1 / 99	25.15	0.70	25.85	0.385	33.01	-7.16
2593.00	20	64-QAM	1 / 99	24.23	0.70	**24.93**	0.311	33.01	-8.08

Table 7-48. EIRP Data (Band 41 PC3)

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7.8.2 Port-B Radiated Power (ERP/EIRP)

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
699.70	1.4	QPSK	1 / 5	24.43	-2.00	20.28	0.107	34.77	-14.49	22.43	0.175	36.99	-14.56
707.50	1.4	QPSK	1 / 0	24.48	-2.00	20.33	0.108	34.77	-14.44	22.48	0.177	36.99	-14.51
715.30	1.4	QPSK	1 / 5	24.50	-2.00	**20.35**	**0.108**	34.77	-14.42	**22.50**	**0.178**	36.99	-14.49
715.30	1.4	16-QAM	1 / 5	23.72	-2.00	19.57	0.091	34.77	-15.20	21.72	0.149	36.99	-15.27
715.30	1.4	64-QAM	1 / 5	22.89	-2.00	**18.74**	0.075	34.77	-16.03	**20.89**	0.123	36.99	-16.10
700.50	3	QPSK	1 / 14	24.43	-2.00	20.28	0.107	34.77	-14.49	22.43	0.175	36.99	-14.56
707.50	3	QPSK	1 / 14	24.40	-2.00	20.25	0.106	34.77	-14.52	22.40	0.174	36.99	-14.59
714.50	3	QPSK	1 / 0	24.45	-2.00	**20.30**	0.107	34.77	-14.47	**22.45**	0.176	36.99	-14.54
714.50	3	16-QAM	1 / 8	23.85	-2.00	**19.70**	0.093	34.77	-15.07	**21.85**	0.153	36.99	-15.14
714.50	3	64-QAM	1 / 14	22.72	-2.00	18.57	0.072	34.77	-16.20	20.72	0.118	36.99	-16.27
701.50	5	QPSK	1 / 0	24.35	-2.00	20.20	0.105	34.77	-14.57	22.35	0.172	36.99	-14.64
707.50	5	QPSK	1 / 24	24.50	-2.00	**20.35**	**0.108**	34.77	-14.42	**22.50**	**0.178**	36.99	-14.49
713.50	5	QPSK	1 / 0	24.47	-2.00	20.32	0.108	34.77	-14.45	22.47	0.177	36.99	-14.52
707.50	5	16-QAM	1 / 0	23.65	-2.00	19.50	0.089	34.77	-15.27	21.65	0.146	36.99	-15.34
707.50	5	64-QAM	1 / 0	22.90	-2.00	**18.75**	0.075	34.77	-16.02	**20.90**	0.123	36.99	-16.09
704.00	10	QPSK	1 / 49	24.38	-2.00	20.23	0.105	34.77	-14.54	22.38	0.173	36.99	-14.61
707.50	10	QPSK	1 / 49	24.41	-2.00	**20.26**	0.106	34.77	-14.51	**22.41**	0.174	36.99	-14.58
711.00	10	QPSK	1 / 49	24.36	-2.00	20.21	0.105	34.77	-14.56	22.36	0.172	36.99	-14.63
707.50	10	16-QAM	1 / 49	23.81	-2.00	**19.66**	0.092	34.77	-15.11	**21.81**	0.152	36.99	-15.18
707.50	10	64-QAM	1 / 49	22.60	-2.00	18.45	0.070	34.77	-16.32	20.60	0.115	36.99	-16.39

Table 7-49. ERP Data (Band 12)

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Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
706.50	5	QPSK	1 / 0	24.41	-2.00	20.26	0.106	34.77	-14.51	22.41	0.174	36.99	-14.58
710.00	5	QPSK	1 / 0	24.50	-2.00	**20.35**	**0.108**	34.77	-14.42	**22.50**	**0.178**	36.99	-14.49
713.50	5	QPSK	1 / 0	24.42	-2.00	20.27	0.106	34.77	-14.50	22.42	0.175	36.99	-14.57
710.00	5	16-QAM	1 / 24	23.66	-2.00	19.51	0.089	34.77	-15.26	21.66	0.147	36.99	-15.33
710.00	5	64-QAM	1 / 24	22.87	-2.00	**18.72**	0.074	34.77	-16.05	**20.87**	0.122	36.99	-16.12
709.00	10	QPSK	1 / 49	24.39	-2.00	**20.24**	0.106	34.77	-14.53	**22.39**	0.173	36.99	-14.60
710.00	10	QPSK	1 / 0	24.34	-2.00	20.19	0.104	34.77	-14.58	22.34	0.171	36.99	-14.65
711.00	10	QPSK	1 / 49	24.38	-2.00	20.23	0.105	34.77	-14.54	22.38	0.173	36.99	-14.61
709.00	10	16-QAM	1 / 49	23.25	-2.00	19.10	0.081	34.77	-15.67	21.25	0.133	36.99	-15.74
709.00	10	64-QAM	1 / 49	22.25	-2.00	**18.10**	0.065	34.77	-16.67	**20.25**	0.106	36.99	-16.74

Table 7-50. ERP Data (Band 17)

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
779.50	5	QPSK	1 / 0	24.48	-2.00	**20.33**	0.108	34.77	-14.44	**22.48**	0.177	36.99	-14.51
782.00	5	QPSK	1 / 24	24.42	-2.00	20.27	0.106	34.77	-14.50	22.42	0.175	36.99	-14.57
784.50	5	QPSK	1 / 24	24.42	-2.00	20.27	0.106	34.77	-14.50	22.42	0.175	36.99	-14.57
779.50	5	16-QAM	1 / 0	23.97	-2.00	**19.82**	0.096	34.77	-14.95	**21.97**	0.157	36.99	-15.02
779.50	5	64-QAM	1 / 0	23.01	-2.00	**18.86**	0.077	34.77	-15.91	**21.01**	0.126	36.99	-15.98
782.00	10	QPSK	1 / 0	24.50	-2.00	**20.35**	**0.108**	34.77	-14.42	**22.50**	**0.178**	36.99	-14.49
782.00	10	16-QAM	1 / 0	23.74	-2.00	**19.59**	0.091	34.77	-15.18	**21.74**	0.149	36.99	-15.25
782.00	10	64-QAM	1 / 0	22.87	-2.00	**18.72**	0.074	34.77	-16.05	**20.87**	0.122	36.99	-16.12

Table 7-51. ERP Data (Band 13)

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Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
824.70	1.4	QPSK	1 /3	24.48	-1.50	20.83	0.121	38.45	-17.62	22.98	0.199	40.61	-17.63
836.50	1.4	QPSK	1 / 0	24.50	-1.50	**20.85**	**0.122**	38.45	-17.60	**23.00**	**0.200**	40.61	-17.61
848.30	1.4	QPSK	1 / 3	24.50	-1.50	**20.85**	**0.122**	38.45	-17.60	**23.00**	**0.200**	40.61	-17.61
836.50	1.4	16-QAM	1 / 0	23.83	-1.50	20.18	0.104	38.45	-18.27	22.33	0.171	40.61	-18.28
836.50	1.4	64-QAM	1 / 0	22.85	-1.50	19.20	0.083	38.45	-19.25	21.35	0.136	40.61	-19.26
825.50	3	QPSK	1 / 0	24.48	-1.50	20.83	0.121	38.45	-17.62	22.98	0.199	40.61	-17.63
836.50	3	QPSK	1 / 0	24.46	-1.50	20.81	0.121	38.45	-17.64	22.96	0.198	40.61	-17.65
847.50	3	QPSK	1 / 0	24.50	-1.50	**20.85**	**0.122**	38.45	-17.60	**23.00**	**0.200**	40.61	-17.61
847.50	3	16-QAM	1 / 0	23.94	-1.50	**20.29**	0.107	38.45	-18.16	**22.44**	0.175	40.61	-18.17
847.50	3	64-QAM	1 / 8	23.10	-1.50	**19.45**	0.088	38.45	-19.00	**21.60**	0.145	40.61	-19.01
826.50	5	QPSK	1 / 0	24.50	-1.50	**20.85**	**0.122**	38.45	-17.60	**23.00**	**0.200**	40.61	-17.61
836.50	5	QPSK	1 / 0	24.50	-1.50	**20.85**	**0.122**	38.45	-17.60	**23.00**	**0.200**	40.61	-17.61
846.50	5	QPSK	1 / 0	24.46	-1.50	20.81	0.121	38.45	-17.64	22.96	0.198	40.61	-17.65
826.50	5	16-QAM	1 / 0	23.98	-1.50	**20.33**	0.108	38.45	-18.12	**22.48**	0.177	40.61	-18.13
826.50	5	64-QAM	1 / 0	22.92	-1.50	19.27	0.085	38.45	-19.18	21.42	0.139	40.61	-19.19
829.00	10	QPSK	1 / 0	24.47	-1.50	**20.82**	0.121	38.45	-17.63	**22.97**	0.198	40.61	-17.64
836.50	10	QPSK	1 / 0	24.27	-1.50	20.62	0.115	38.45	-17.83	22.77	0.189	40.61	-17.84
844.00	10	QPSK	1 / 0	24.36	-1.50	20.71	0.118	38.45	-17.74	22.86	0.193	40.61	-17.75
829.00	10	16-QAM	1 / 0	23.84	-1.50	20.19	0.104	38.45	-18.26	22.34	0.171	40.61	-18.27
829.00	10	64-QAM	1 / 25	22.88	-1.50	19.23	0.084	38.45	-19.22	21.38	0.137	40.61	-19.23

Table 7-52. ERP Data (Band 5)

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Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
824.70	1.4	QPSK	1 / 0	24.19	-1.50	20.54	0.113	38.45	-17.91	22.69	0.186	40.61	-17.92
836.50	1.4	QPSK	6 / 0	24.29	-1.50	20.64	0.116	38.45	-17.81	22.79	0.190	40.61	-17.82
848.30	1.4	QPSK	6 / 0	24.50	-1.50	**20.85**	**0.122**	38.45	-17.60	**23.00**	**0.200**	40.61	-17.61
848.30	1.4	16-QAM	6 / 0	23.68	-1.50	**20.03**	0.101	38.45	-18.42	**22.18**	0.165	40.61	-18.43
848.30	1.4	64-QAM	6 / 0	22.61	-1.50	18.96	0.079	38.45	-19.49	21.11	0.129	40.61	-19.50
825.50	3	QPSK	1 / 0	24.20	-1.50	20.55	0.114	38.45	-17.90	22.70	0.186	40.61	-17.91
836.50	3	QPSK	8 / 4	24.29	-1.50	20.64	0.116	38.45	-17.81	22.79	0.190	40.61	-17.82
847.50	3	QPSK	8 / 4	24.33	-1.50	**20.68**	0.117	38.45	-17.77	**22.83**	0.192	40.61	-17.78
847.50	3	16-QAM	15 / 0	23.52	-1.50	19.87	0.097	38.45	-18.58	22.02	0.159	40.61	-18.59
847.50	3	64-QAM	8 / 4	22.68	-1.50	**19.03**	0.080	38.45	-19.42	**21.18**	0.131	40.61	-19.43
826.50	5	QPSK	1 / 0	24.31	-1.50	20.66	0.116	38.45	-17.79	22.81	0.191	40.61	-17.80
836.50	5	QPSK	25 / 0	24.47	-1.50	**20.82**	0.121	38.45	-17.63	**22.97**	0.198	40.61	-17.64
846.50	5	QPSK	25 / 0	24.30	-1.50	20.65	0.116	38.45	-17.80	22.80	0.191	40.61	-17.81
836.50	5	16-QAM	25 / 0	23.60	-1.50	**19.95**	0.099	38.45	-18.50	**22.10**	0.162	40.61	-18.51
836.50	5	64-QAM	25 / 0	22.61	-1.50	18.96	0.079	38.45	-19.49	21.11	0.129	40.61	-19.50
829.00	10	QPSK	25 / 12	24.21	-1.50	20.56	0.114	38.45	-17.89	22.71	0.187	40.61	-17.90
836.50	10	QPSK	25 / 12	24.15	-1.50	20.50	0.112	38.45	-17.95	22.65	0.184	40.61	-17.96
844.00	10	QPSK	25 / 12	24.29	-1.50	**20.64**	0.116	38.45	-17.81	**22.79**	0.190	40.61	-17.82
844.00	10	16-QAM	50 / 0	23.34	-1.50	19.69	0.093	38.45	-18.76	21.84	0.153	40.61	-18.77
844.00	10	64-QAM	25 / 12	22.76	-1.50	**19.11**	0.081	38.45	-19.34	**21.26**	0.134	40.61	-19.35

Table 7-53. ERP Data (Band 26)

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Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1710.70	1.4	QPSK	1 / 5	23.19	-3.20	19.99	0.100	30.00	-10.01
1732.50	1.4	QPSK	1 / 0	23.14	-3.20	19.94	0.099	30.00	-10.06
1754.30	1.4	QPSK	1 / 0	23.50	-3.20	**20.30**	**0.107**	30.00	-9.70
1754.30	1.4	16-QAM	1 / 5	22.69	-3.20	**19.49**	0.089	30.00	-10.51
1754.30	1.4	64-QAM	1 / 0	21.65	-3.20	**18.45**	0.070	30.00	-11.55
1711.50	3	QPSK	1 / 8	23.16	-3.20	19.96	0.099	30.00	-10.04
1732.50	3	QPSK	1 / 14	23.15	-3.20	19.95	0.099	30.00	-10.05
1753.50	3	QPSK	1 / 8	23.36	-3.20	**20.16**	0.104	30.00	-9.84
1753.50	3	16-QAM	1 / 8	22.44	-3.20	**19.24**	0.084	30.00	-10.76
1753.50	3	64-QAM	1 / 8	21.68	-3.20	**18.48**	0.070	30.00	-11.52
1712.50	5	QPSK	1 / 24	23.31	-3.20	**20.11**	0.103	30.00	-9.89
1732.50	5	QPSK	1 / 24	23.27	-3.20	20.07	0.102	30.00	-9.93
1752.50	5	QPSK	1 / 0	23.31	-3.20	**20.11**	0.103	30.00	-9.89
1712.50	5	16-QAM	1 / 24	22.55	-3.20	**19.35**	0.086	30.00	-10.65
1712.50	5	64-QAM	1 / 0	21.41	-3.20	18.21	0.066	30.00	-11.79
1715.00	10	QPSK	1 / 25	23.24	-3.20	20.04	0.101	30.00	-9.96
1732.50	10	QPSK	1 / 49	23.28	-3.20	20.08	0.102	30.00	-9.92
1750.00	10	QPSK	1 / 49	23.35	-3.20	**20.15**	0.104	30.00	-9.85
1750.00	10	16-QAM	1 / 25	22.59	-3.20	**19.39**	0.087	30.00	-10.61
1750.00	10	64-QAM	1 / 49	21.88	-3.20	**18.68**	0.074	30.00	-11.32
1717.50	15	QPSK	1 / 38	23.38	-3.20	**20.18**	0.104	30.00	-9.82
1732.50	15	QPSK	1 / 74	23.30	-3.20	20.10	0.102	30.00	-9.90
1747.50	15	QPSK	1 / 38	23.34	-3.20	20.14	0.103	30.00	-9.86
1717.50	15	16-QAM	1 / 38	22.60	-3.20	19.40	0.087	30.00	-10.60
1717.50	15	64-QAM	1 / 0	21.57	-3.20	18.37	0.069	30.00	-11.63
1720.00	20	QPSK	1 / 0	23.30	-3.20	20.10	0.102	30.00	-9.90
1732.50	20	QPSK	1 / 99	23.19	-3.20	19.99	0.100	30.00	-10.01
1745.00	20	QPSK	1 / 99	23.47	-3.20	**20.27**	0.106	30.00	-9.73
1745.00	20	16-QAM	1 / 99	22.74	-3.20	**19.54**	0.090	30.00	-10.46
1745.00	20	64-QAM	1 / 99	21.83	-3.20	**18.63**	0.073	30.00	-11.37

Table 7-54. EIRP Data (Band 4)

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Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1710.70	1.4	QPSK	1 / 0	23.17	-3.20	19.97	0.099	30.00	-10.03
1745.00	1.4	QPSK	1 / 5	23.32	-3.20	20.12	0.103	30.00	-9.88
1779.30	1.4	QPSK	1 / 5	23.50	-3.20	**20.30**	**0.107**	30.00	-9.70
1779.30	1.4	16-QAM	1 / 0	22.58	-3.20	19.38	0.087	30.00	-10.62
1779.30	1.4	64-QAM	1 / 3	21.56	-3.20	18.36	0.069	30.00	-11.64
1711.50	3	QPSK	1 / 8	23.11	-3.20	19.91	0.098	30.00	-10.09
1745.00	3	QPSK	1 / 8	23.29	-3.20	20.09	0.102	30.00	-9.91
1778.50	3	QPSK	1 / 8	23.37	-3.20	**20.17**	0.104	30.00	-9.83
1778.50	3	16-QAM	1 / 8	22.62	-3.20	**19.42**	0.087	30.00	-10.58
1778.50	3	64-QAM	1 / 8	21.80	-3.20	**18.60**	0.072	30.00	-11.40
1712.50	5	QPSK	1 / 24	23.25	-3.20	20.05	0.101	30.00	-9.95
1745.00	5	QPSK	1 / 24	23.46	-3.20	**20.26**	0.106	30.00	-9.74
1777.50	5	QPSK	1 / 12	23.36	-3.20	20.16	0.104	30.00	-9.84
1745.00	5	16-QAM	1 / 24	22.54	-3.20	19.34	0.086	30.00	-10.66
1745.00	5	64-QAM	1 / 24	21.61	-3.20	18.41	0.069	30.00	-11.59
1715.00	10	QPSK	1 / 25	23.25	-3.20	20.05	0.101	30.00	-9.95
1745.00	10	QPSK	1 / 49	23.38	-3.20	**20.18**	0.104	30.00	-9.82
1775.00	10	QPSK	1 / 49	23.35	-3.20	20.15	0.104	30.00	-9.85
1745.00	10	16-QAM	1 / 25	22.64	-3.20	**19.44**	0.088	30.00	-10.56
1745.00	10	64-QAM	1 / 49	21.64	-3.20	18.44	0.070	30.00	-11.56
1717.50	15	QPSK	1 / 38	23.34	-3.20	**20.14**	0.103	30.00	-9.86
1745.00	15	QPSK	1 / 38	23.28	-3.20	20.08	0.102	30.00	-9.92
1772.50	15	QPSK	1 / 74	23.30	-3.20	20.10	0.102	30.00	-9.90
1717.50	15	16-QAM	1 / 0	22.42	-3.20	19.22	0.084	30.00	-10.78
1717.50	15	64-QAM	1 / 38	21.67	-3.20	18.47	0.070	30.00	-11.53
1720.00	20	QPSK	1 / 0	23.07	-3.20	19.87	0.097	30.00	-10.13
1745.00	20	QPSK	1 / 99	23.50	-3.20	**20.30**	**0.107**	30.00	-9.70
1770.00	20	QPSK	1 / 99	23.50	-3.20	**20.30**	**0.107**	30.00	-9.70
1745.00	20	16-QAM	1 / 99	22.70	-3.20	19.50	0.089	30.00	-10.50
1745.00	20	64-QAM	1 / 50	21.78	-3.20	**18.58**	0.072	30.00	-11.42

Table 7-55. EIRP Data (Band 66)

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Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1850.70	1.4	QPSK	1 / 0	23.30	-1.70	21.60	0.145	33.01	-11.41
1880.00	1.4	QPSK	1 / 5	23.21	-1.70	21.51	0.142	33.01	-11.50
1909.30	1.4	QPSK	1 / 0	23.50	-1.70	**21.80**	**0.151**	33.01	-11.21
1909.30	1.4	16-QAM	1 / 0	22.73	-1.70	**21.03**	0.127	33.01	-11.98
1909.30	1.4	64-QAM	1 / 3	21.63	-1.70	**19.93**	0.098	33.01	-13.08
1851.50	3	QPSK	1 / 8	23.26	-1.70	21.56	0.143	33.01	-11.45
1880.00	3	QPSK	1 / 8	23.19	-1.70	21.49	0.141	33.01	-11.52
1908.50	3	QPSK	1 / 0	23.33	-1.70	**21.63**	0.146	33.01	-11.38
1908.50	3	16-QAM	1 / 0	22.54	-1.70	**20.84**	0.121	33.01	-12.17
1908.50	3	64-QAM	1 / 0	21.76	-1.70	**20.06**	0.101	33.01	-12.95
1852.50	5	QPSK	1 / 24	23.32	-1.70	21.62	0.145	33.01	-11.39
1880.00	5	QPSK	1 / 24	23.42	-1.70	21.72	0.149	33.01	-11.29
1907.50	5	QPSK	1 / 0	23.47	-1.70	**21.77**	0.150	33.01	-11.24
1907.50	5	16-QAM	1 / 12	22.55	-1.70	20.85	0.122	33.01	-12.16
1907.50	5	64-QAM	1 / 0	21.86	-1.70	**20.16**	0.104	33.01	-12.85
1855.00	10	QPSK	1 / 49	23.38	-1.70	21.68	0.147	33.01	-11.33
1880.00	10	QPSK	1 / 49	23.29	-1.70	21.59	0.144	33.01	-11.42
1905.00	10	QPSK	1 / 25	23.50	-1.70	**21.80**	**0.151**	33.01	-11.21
1905.00	10	16-QAM	1 / 25	22.84	-1.70	**21.14**	0.130	33.01	-11.87
1905.00	10	64-QAM	1 / 49	21.98	-1.70	**20.28**	0.107	33.01	-12.73
1857.50	15	QPSK	1 / 38	23.50	-1.70	**21.80**	**0.151**	33.01	-11.21
1880.00	15	QPSK	1 / 74	23.29	-1.70	21.59	0.144	33.01	-11.42
1902.50	15	QPSK	1 / 38	23.47	-1.70	21.77	0.150	33.01	-11.24
1857.50	15	16-QAM	1 / 74	22.92	-1.70	**21.22**	0.132	33.01	-11.79
1857.50	15	64-QAM	1 / 74	21.92	-1.70	**20.22**	0.105	33.01	-12.79
1860.00	20	QPSK	1 / 50	23.25	-1.70	21.55	0.143	33.01	-11.46
1880.00	20	QPSK	1 / 0	23.48	-1.70	21.78	0.151	33.01	-11.23
1900.00	20	QPSK	1 / 99	23.50	-1.70	**21.80**	**0.151**	33.01	-11.21
1900.00	20	16-QAM	1 / 50	22.74	-1.70	**21.04**	0.127	33.01	-11.97
1900.00	20	64-QAM	1 / 99	21.72	-1.70	20.02	0.100	33.01	-12.99

Table 7-56. EIRP Data (Band 2)

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Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1850.70	1.4	QPSK	1 / 0	23.37	-1.70	21.67	0.147	33.01	-11.34
1882.50	1.4	QPSK	1 / 5	23.32	-1.70	21.62	0.145	33.01	-11.39
1914.30	1.4	QPSK	1 / 0	23.40	-1.70	**21.70**	0.148	33.01	-11.31
1914.30	1.4	16-QAM	1 / 5	22.67	-1.70	**20.97**	0.125	33.01	-12.04
1914.30	1.4	64-QAM	1 / 0	21.64	-1.70	19.94	0.099	33.01	-13.07
1851.50	3	QPSK	1 / 8	23.35	-1.70	**21.65**	0.146	33.01	-11.36
1882.50	3	QPSK	1 / 8	23.32	-1.70	21.62	0.145	33.01	-11.39
1913.50	3	QPSK	1 / 8	23.25	-1.70	21.55	0.143	33.01	-11.46
1851.50	3	16-QAM	1 / 8	22.50	-1.70	20.80	0.120	33.01	-12.21
1851.50	3	64-QAM	1 / 8	21.58	-1.70	19.88	0.097	33.01	-13.13
1852.50	5	QPSK	1 / 24	23.43	-1.70	21.73	0.149	33.01	-11.28
1882.50	5	QPSK	1 / 24	23.49	-1.70	**21.79**	0.151	33.01	-11.22
1912.50	5	QPSK	1 / 0	23.41	-1.70	21.71	0.148	33.01	-11.30
1882.50	5	16-QAM	1 / 0	22.67	-1.70	**20.97**	0.125	33.01	-12.04
1882.50	5	64-QAM	1 / 0	21.75	-1.70	20.05	0.101	33.01	-12.96
1855.00	10	QPSK	1 / 49	23.50	-1.70	**21.80**	**0.151**	33.01	-11.21
1882.50	10	QPSK	1 / 49	23.41	-1.70	21.71	0.148	33.01	-11.30
1910.00	10	QPSK	1 / 0	23.48	-1.70	21.78	0.151	33.01	-11.23
1855.00	10	16-QAM	1 / 49	22.64	-1.70	20.94	0.124	33.01	-12.07
1855.00	10	64-QAM	1 / 25	21.64	-1.70	19.94	0.099	33.01	-13.07
1857.50	15	QPSK	1 / 38	23.50	-1.70	**21.80**	**0.151**	33.01	-11.21
1882.50	15	QPSK	1 / 38	23.34	-1.70	21.64	0.146	33.01	-11.37
1907.50	15	QPSK	1 / 0	23.42	-1.70	21.72	0.149	33.01	-11.29
1857.50	15	16-QAM	1 / 74	22.91	-1.70	**21.21**	0.132	33.01	-11.80
1857.50	15	64-QAM	1 / 74	21.96	-1.70	**20.26**	0.106	33.01	-12.75
1860.00	20	QPSK	1 / 99	23.50	-1.70	**21.80**	**0.151**	33.01	-11.21
1882.50	20	QPSK	1 / 99	23.24	-1.70	21.54	0.143	33.01	-11.47
1905.00	20	QPSK	1 / 99	23.48	-1.70	21.78	0.151	33.01	-11.23
1860.00	20	16-QAM	1 / 50	22.78	-1.70	21.08	0.128	33.01	-11.93
1860.00	20	64-QAM	1 / 50	21.55	-1.70	19.85	0.097	33.01	-13.16

Table 7-57. EIRP Data (Band 25)

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Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
2307.50	5	QPSK	1 / 24	23.25	-0.20	**23.05**	**0.202**	23.98	-0.93
2312.50	5	QPSK	1 / 0	23.14	-0.20	22.94	0.197	23.98	-1.04
2307.50	5	16-QAM	1 / 24	22.37	-0.20	22.17	0.165	23.98	-1.81
2307.50	5	64-QAM	1 / 24	21.42	-0.20	21.22	0.132	23.98	-2.76
2310.00	10	QPSK	1 / 25	23.25	-0.20	**23.05**	0.202	23.98	-0.93
2310.00	10	16-QAM	1 / 25	22.24	-0.20	22.04	0.160	23.98	-1.94
2310.00	10	64-QAM	1 / 25	21.42	-0.20	21.22	0.132	23.98	-2.76

Table 7-58. EIRP Data (Band 30)

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Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
2502.50	5	QPSK	1 / 0	23.00	0.80	**23.80**	**0.240**	33.01	-9.21
2535.00	5	QPSK	1 / 0	22.71	0.80	23.51	0.224	33.01	-9.50
2567.50	5	QPSK	1 / 24	22.81	0.80	23.61	0.230	33.01	-9.40
2502.50	5	16-QAM	1 / 0	22.29	0.80	**23.09**	0.204	33.01	-9.92
2502.50	5	64-QAM	1 / 0	21.22	0.80	22.02	0.159	33.01	-10.99
2505.00	10	QPSK	1 / 0	22.96	0.80	**23.76**	0.238	33.01	-9.25
2535.00	10	QPSK	1 / 0	22.73	0.80	23.53	0.225	33.01	-9.48
2565.00	10	QPSK	1 / 49	22.55	0.80	23.35	0.216	33.01	-9.66
2505.00	10	16-QAM	1 / 0	21.98	0.80	22.78	0.190	33.01	-10.23
2505.00	10	64-QAM	1 / 49	21.25	0.80	22.05	0.160	33.01	-10.96
2507.50	15	QPSK	1 / 0	23.00	0.80	**23.80**	**0.240**	33.01	-9.21
2535.00	15	QPSK	1 / 0	22.73	0.80	23.53	0.225	33.01	-9.48
2562.50	15	QPSK	1 / 0	22.64	0.80	23.44	0.221	33.01	-9.57
2507.50	15	16-QAM	1 / 38	22.10	0.80	**22.90**	0.195	33.01	-10.11
2507.50	15	64-QAM	1 / 0	21.29	0.80	**22.09**	0.162	33.01	-10.92
2510.00	20	QPSK	1 / 0	22.99	0.80	**23.79**	0.239	33.01	-9.22
2535.00	20	QPSK	1 / 0	22.85	0.80	23.65	0.232	33.01	-9.36
2560.00	20	QPSK	1 / 0	22.77	0.80	23.57	0.228	33.01	-9.44
2510.00	20	16-QAM	1 / 0	22.17	0.80	**22.97**	0.198	33.01	-10.04
2510.00	20	64-QAM	1 / 0	21.37	0.80	**22.17**	0.165	33.01	-10.84

Table 7-59. EIRP Data (Band 7)

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Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
2498.50	5	QPSK	1 / 0	23.93	0.80	24.73	0.297	33.01	-8.28
2593.00	5	QPSK	1 / 0	24.83	0.80	**25.63**	0.366	33.01	-7.38
2687.50	5	QPSK	1 / 0	24.80	0.80	25.60	0.363	33.01	-7.41
2593.00	5	16-QAM	1 / 0	24.33	0.80	**25.13**	0.326	33.01	-7.88
2593.00	5	64-QAM	1 / 0	23.43	0.80	24.23	0.265	33.01	-8.78
2501.00	10	QPSK	1 / 49	23.96	0.80	24.76	0.299	33.01	-8.25
2593.00	10	QPSK	1 / 0	24.89	0.80	**25.69**	0.371	33.01	-7.32
2685.00	10	QPSK	1 / 0	24.80	0.80	25.60	0.363	33.01	-7.41
2593.00	10	16-QAM	1 / 0	24.40	0.80	**25.20**	0.331	33.01	-7.81
2593.00	10	64-QAM	1 / 49	23.07	0.80	23.87	0.244	33.01	-9.14
2503.50	15	QPSK	1 / 74	23.97	0.80	24.77	0.300	33.01	-8.24
2593.00	15	QPSK	1 / 38	24.93	0.80	**25.73**	**0.374**	33.01	-7.28
2682.50	15	QPSK	1 / 38	24.91	0.80	25.71	0.372	33.01	-7.30
2593.00	15	16-QAM	1 / 38	24.24	0.80	25.04	0.319	33.01	-7.97
2593.00	15	64-QAM	1 / 38	23.26	0.80	**24.06**	0.255	33.01	-8.95
2506.00	20	QPSK	1 / 99	23.95	0.80	24.75	0.299	33.01	-8.26
2593.00	20	QPSK	1 / 0	24.93	0.80	**25.73**	**0.374**	33.01	-7.28
2680.00	20	QPSK	1 / 0	24.86	0.80	25.66	0.368	33.01	-7.35
2593.00	20	16-QAM	1 / 99	24.25	0.80	25.05	0.320	33.01	-7.96
2593.00	20	64-QAM	1 / 99	23.23	0.80	24.03	0.253	33.01	-8.98

Table 7-60. EIRP Data (Band 41 PC2)

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Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
2498.50	5	QPSK	1 / 0	23.00	0.80	**23.80**	**0.240**	33.01	-9.21
2593.00	5	QPSK	1 / 0	22.83	0.80	23.63	0.231	33.01	-9.38
2687.50	5	QPSK	1 / 0	22.72	0.80	23.52	0.225	33.01	-9.49
2593.00	5	16-QAM	1 / 12	21.92	0.80	22.72	0.187	33.01	-10.29
2593.00	5	64-QAM	1 / 0	20.89	0.80	21.69	0.148	33.01	-11.32
2501.00	10	QPSK	1 / 0	23.00	0.80	**23.80**	**0.240**	33.01	-9.21
2593.00	10	QPSK	1 / 0	22.80	0.80	23.60	0.229	33.01	-9.41
2685.00	10	QPSK	1 / 0	22.70	0.80	23.50	0.224	33.01	-9.51
2593.00	10	16-QAM	1 / 25	21.71	0.80	22.51	0.178	33.01	-10.50
2593.00	10	64-QAM	1 / 0	20.72	0.80	21.52	0.142	33.01	-11.49
2503.50	15	QPSK	1 / 38	22.82	0.80	23.62	0.230	33.01	-9.39
2593.00	15	QPSK	1 / 38	22.63	0.80	23.43	0.220	33.01	-9.58
2682.50	15	QPSK	1 / 38	22.67	0.80	23.47	0.222	33.01	-9.54
2593.00	15	16-QAM	1 / 38	21.49	0.80	22.29	0.169	33.01	-10.72
2593.00	15	64-QAM	1 / 38	20.70	0.80	21.50	0.141	33.01	-11.51
2506.00	20	QPSK	1 / 99	22.93	0.80	**23.73**	0.236	33.01	-9.28
2593.00	20	QPSK	1 / 99	22.63	0.80	23.43	0.220	33.01	-9.58
2680.00	20	QPSK	1 / 50	22.79	0.80	23.59	0.229	33.01	-9.42
2593.00	20	16-QAM	1 / 50	21.80	0.80	22.60	0.182	33.01	-10.41
2593.00	20	64-QAM	1 / 50	20.79	0.80	21.59	0.144	33.01	-11.42

Table 7-61. EIRP Data (Band 41 PC3)

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7.8.3 Port-C Radiated Power (ERP/EIRP)

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1710.70	1.4	QPSK	1 / 5	24.98	-1.20	**23.78**	**0.239**	30.00	-6.22
1732.50	1.4	QPSK	1 / 5	24.73	-1.20	23.53	0.225	30.00	-6.47
1754.30	1.4	QPSK	1 / 0	24.91	-1.20	23.71	0.235	30.00	-6.29
1710.70	1.4	16-QAM	1 / 0	23.98	-1.20	22.78	0.190	30.00	-7.22
1710.70	1.4	64-QAM	1 / 0	23.38	-1.20	22.18	0.165	30.00	-7.82
1711.50	3	QPSK	1 / 8	24.90	-1.20	**23.70**	0.234	30.00	-6.30
1732.50	3	QPSK	1 / 8	24.87	-1.20	23.67	0.233	30.00	-6.33
1753.50	3	QPSK	1 / 14	24.78	-1.20	23.58	0.228	30.00	-6.42
1711.50	3	16-QAM	1 / 14	24.19	-1.20	22.99	0.199	30.00	-7.01
1711.50	3	64-QAM	1 / 14	23.46	-1.20	**22.26**	0.168	30.00	-7.74
1712.50	5	QPSK	1 / 0	24.97	-1.20	**23.77**	0.238	30.00	-6.23
1732.50	5	QPSK	1 / 12	24.97	-1.20	**23.77**	0.238	30.00	-6.23
1752.50	5	QPSK	1 / 24	24.94	-1.20	23.74	0.237	30.00	-6.26
1712.50	5	16-QAM	1 / 0	24.22	-1.20	**23.02**	0.200	30.00	-6.98
1712.50	5	64-QAM	1 / 24	23.37	-1.20	22.17	0.165	30.00	-7.83
1715.00	10	QPSK	1 / 0	24.75	-1.20	23.55	0.226	30.00	-6.45
1732.50	10	QPSK	1 / 49	24.90	-1.20	**23.70**	0.234	30.00	-6.30
1750.00	10	QPSK	1 / 0	24.70	-1.20	23.50	0.224	30.00	-6.50
1732.50	10	16-QAM	1 / 49	23.90	-1.20	22.70	0.186	30.00	-7.30
1732.50	10	64-QAM	1 / 49	22.93	-1.20	21.73	0.149	30.00	-8.27
1717.50	15	QPSK	1 / 0	24.78	-1.20	**23.58**	0.228	30.00	-6.42
1732.50	15	QPSK	1 / 74	24.68	-1.20	23.48	0.223	30.00	-6.52
1747.50	15	QPSK	1 / 0	24.65	-1.20	23.45	0.221	30.00	-6.55
1717.50	15	16-QAM	1 / 0	23.98	-1.20	22.78	0.190	30.00	-7.22
1717.50	15	64-QAM	1 / 0	22.93	-1.20	21.73	0.149	30.00	-8.27
1720.00	20	QPSK	1 / 0	24.75	-1.20	23.55	0.226	30.00	-6.45
1732.50	20	QPSK	1 / 0	24.92	-1.20	**23.72**	0.236	30.00	-6.28
1745.00	20	QPSK	1 / 0	24.68	-1.20	23.48	0.223	30.00	-6.52
1732.50	20	16-QAM	1 / 99	24.13	-1.20	**22.93**	0.196	30.00	-7.07
1732.50	20	64-QAM	1 / 99	23.11	-1.20	21.91	0.155	30.00	-8.09

Table 7-62. EIRP Data (Band 4)

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Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1710.70	1.4	QPSK	1 / 5	24.69	-1.20	23.49	0.223	30.00	-6.51
1745.00	1.4	QPSK	1 / 0	24.85	-1.20	**23.65**	0.232	30.00	-6.35
1779.30	1.4	QPSK	1 / 0	24.76	-1.20	23.56	0.227	30.00	-6.44
1745.00	1.4	16-QAM	1 / 3	23.87	-1.20	22.67	0.185	30.00	-7.33
1745.00	1.4	64-QAM	1 / 3	22.94	-1.20	21.74	0.149	30.00	-8.26
1711.50	3	QPSK	1 / 8	24.68	-1.20	23.48	0.223	30.00	-6.52
1745.00	3	QPSK	1 / 8	24.86	-1.20	**23.66**	0.232	30.00	-6.34
1778.50	3	QPSK	1 / 8	24.80	-1.20	23.60	0.229	30.00	-6.40
1745.00	3	16-QAM	1 / 8	23.98	-1.20	**22.78**	0.190	30.00	-7.22
1745.00	3	64-QAM	1 / 8	23.01	-1.20	21.81	0.152	30.00	-8.19
1712.50	5	QPSK	1 / 24	24.81	-1.20	23.61	0.230	30.00	-6.39
1745.00	5	QPSK	1 / 24	24.91	-1.20	**23.71**	0.235	30.00	-6.29
1777.50	5	QPSK	1 / 0	24.69	-1.20	23.49	0.223	30.00	-6.51
1745.00	5	16-QAM	1 / 24	24.00	-1.20	22.80	0.191	30.00	-7.20
1745.00	5	64-QAM	1 / 12	23.17	-1.20	21.97	0.157	30.00	-8.03
1715.00	10	QPSK	1 / 49	24.92	-1.20	23.72	0.236	30.00	-6.28
1745.00	10	QPSK	1 / 49	25.00	-1.20	**23.80**	**0.240**	30.00	-6.20
1775.00	10	QPSK	1 / 0	24.95	-1.20	23.75	0.237	30.00	-6.25
1745.00	10	16-QAM	1 / 25	24.03	-1.20	**22.83**	0.192	30.00	-7.17
1745.00	10	64-QAM	1 / 49	23.04	-1.20	21.84	0.153	30.00	-8.16
1717.50	15	QPSK	1 / 74	25.00	-1.20	**23.80**	**0.240**	30.00	-6.20
1745.00	15	QPSK	1 / 74	24.98	-1.20	23.78	0.239	30.00	-6.22
1772.50	15	QPSK	1 / 0	24.88	-1.20	23.68	0.233	30.00	-6.32
1717.50	15	16-QAM	1 / 74	24.07	-1.20	**22.87**	0.194	30.00	-7.13
1717.50	15	64-QAM	1 / 74	23.05	-1.20	21.85	0.153	30.00	-8.15
1720.00	20	QPSK	1 / 99	24.97	-1.20	23.77	0.238	30.00	-6.23
1745.00	20	QPSK	1 / 0	24.53	-1.20	23.33	0.215	30.00	-6.67
1770.00	20	QPSK	1 / 50	25.00	-1.20	**23.80**	**0.240**	30.00	-6.20
1770.00	20	16-QAM	1 / 50	24.08	-1.20	22.88	0.194	30.00	-7.12
1770.00	20	64-QAM	1 / 99	23.34	-1.20	**22.14**	0.164	30.00	-7.86

Table 7-63. EIRP Data (Band 66)

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Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1850.70	1.4	QPSK	1 / 5	24.95	-0.30	**24.65**	0.292	33.01	-8.36
1880.00	1.4	QPSK	1 / 0	24.91	-0.30	24.61	0.289	33.01	-8.40
1909.30	1.4	QPSK	1 / 0	24.82	-0.30	24.52	0.283	33.01	-8.49
1850.70	1.4	16-QAM	1 / 0	24.03	-0.30	23.73	0.236	33.01	-9.28
1850.70	1.4	64-QAM	1 / 5	23.11	-0.30	22.81	0.191	33.01	-10.20
1851.50	3	QPSK	1 / 8	24.92	-0.30	24.62	0.290	33.01	-8.39
1880.00	3	QPSK	1 / 8	24.93	-0.30	**24.63**	0.290	33.01	-8.38
1908.50	3	QPSK	1 / 0	24.77	-0.30	24.47	0.280	33.01	-8.54
1880.00	3	16-QAM	1 / 0	23.91	-0.30	23.61	0.230	33.01	-9.40
1880.00	3	64-QAM	1 / 0	23.02	-0.30	22.72	0.187	33.01	-10.29
1852.50	5	QPSK	1 / 0	24.96	-0.30	**24.66**	0.292	33.01	-8.35
1880.00	5	QPSK	1 / 0	24.92	-0.30	24.62	0.290	33.01	-8.39
1907.50	5	QPSK	1 / 24	24.73	-0.30	24.43	0.277	33.01	-8.58
1852.50	5	16-QAM	1 / 24	24.12	-0.30	**23.82**	0.241	33.01	-9.19
1852.50	5	64-QAM	1 / 0	23.05	-0.30	22.75	0.188	33.01	-10.26
1855.00	10	QPSK	1 / 49	25.00	-0.30	**24.70**	**0.295**	33.01	-8.31
1880.00	10	QPSK	1 / 49	24.95	-0.30	24.65	0.292	33.01	-8.36
1905.00	10	QPSK	1 / 0	24.80	-0.30	24.50	0.282	33.01	-8.51
1855.00	10	16-QAM	1 / 49	24.18	-0.30	**23.88**	0.244	33.01	-9.13
1855.00	10	64-QAM	1 / 25	23.22	-0.30	**22.92**	0.196	33.01	-10.09
1857.50	15	QPSK	1 / 74	25.00	-0.30	**24.70**	**0.295**	33.01	-8.31
1880.00	15	QPSK	1 / 0	24.94	-0.30	24.64	0.291	33.01	-8.37
1902.50	15	QPSK	1 / 74	24.82	-0.30	24.52	0.283	33.01	-8.49
1857.50	15	16-QAM	1 / 38	24.26	-0.30	**23.96**	0.249	33.01	-9.05
1857.50	15	64-QAM	1 / 74	23.33	-0.30	23.03	0.201	33.01	-9.98
1860.00	20	QPSK	1 / 99	24.97	-0.30	24.67	0.293	33.01	-8.34
1880.00	20	QPSK	1 / 99	24.63	-0.30	24.33	0.271	33.01	-8.68
1900.00	20	QPSK	1 / 0	25.00	-0.30	**24.70**	**0.295**	33.01	-8.31
1900.00	20	16-QAM	1 / 0	24.20	-0.30	23.90	0.245	33.01	-9.11
1900.00	20	64-QAM	1 / 99	23.30	-0.30	23.00	0.200	33.01	-10.01

Table 7-64. EIRP Data (Band 2)

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Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1850.70	1.4	QPSK	1 / 3	24.77	-0.30	24.47	0.280	33.01	-8.54
1882.50	1.4	QPSK	1 / 5	24.86	-0.30	24.56	0.286	33.01	-8.45
1914.30	1.4	QPSK	1 / 3	24.88	-0.30	**24.58**	0.287	33.01	-8.43
1914.30	1.4	16-QAM	1 / 5	23.92	-0.30	23.62	0.230	33.01	-9.39
1914.30	1.4	64-QAM	1 / 5	23.04	-0.30	22.74	0.188	33.01	-10.27
1851.50	3	QPSK	1 / 0	24.75	-0.30	24.45	0.279	33.01	-8.56
1882.50	3	QPSK	1 / 14	24.60	-0.30	24.30	0.269	33.01	-8.71
1913.50	3	QPSK	1 / 14	24.81	-0.30	**24.51**	0.282	33.01	-8.50
1913.50	3	16-QAM	1 / 14	23.93	-0.30	23.63	0.231	33.01	-9.38
1913.50	3	64-QAM	1 / 14	23.18	-0.30	**22.88**	0.194	33.01	-10.13
1852.50	5	QPSK	1 / 0	24.82	-0.30	24.52	0.283	33.01	-8.49
1882.50	5	QPSK	1 / 24	24.78	-0.30	24.48	0.281	33.01	-8.53
1912.50	5	QPSK	1 / 24	24.85	-0.30	**24.55**	0.285	33.01	-8.46
1912.50	5	16-QAM	1 / 24	24.10	-0.30	23.80	0.240	33.01	-9.21
1912.50	5	64-QAM	1 / 24	23.16	-0.30	**22.86**	0.193	33.01	-10.15
1855.00	10	QPSK	1 / 0	24.99	-0.30	**24.69**	0.294	33.01	-8.32
1882.50	10	QPSK	1 / 0	24.80	-0.30	24.50	0.282	33.01	-8.51
1910.00	10	QPSK	1 / 49	24.89	-0.30	24.59	0.288	33.01	-8.42
1855.00	10	16-QAM	1 / 0	24.13	-0.30	23.83	0.242	33.01	-9.18
1855.00	10	64-QAM	1 / 0	23.28	-0.30	**22.98**	0.199	33.01	-10.03
1857.50	15	QPSK	1 / 0	24.97	-0.30	**24.67**	0.293	33.01	-8.34
1882.50	15	QPSK	1 / 0	24.79	-0.30	24.49	0.281	33.01	-8.52
1907.50	15	QPSK	1 / 74	24.78	-0.30	24.48	0.281	33.01	-8.53
1857.50	15	16-QAM	1 / 0	24.37	-0.30	**24.07**	0.255	33.01	-8.94
1857.50	15	64-QAM	1 / 0	23.15	-0.30	22.85	0.193	33.01	-10.16
1860.00	20	QPSK	1 / 0	24.99	-0.30	24.69	0.294	33.01	-8.32
1882.50	20	QPSK	1 / 99	25.00	-0.30	**24.70**	**0.295**	33.01	-8.31
1905.00	20	QPSK	1 / 99	24.85	-0.30	24.55	0.285	33.01	-8.46
1882.50	20	16-QAM	1 / 0	24.27	-0.30	23.97	0.249	33.01	-9.04
1882.50	20	64-QAM	1 / 99	23.35	-0.30	23.05	0.202	33.01	-9.96

Table 7-65. EIRP Data (Band 25)

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Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
2307.50	5	QPSK	1 / 24	22.40	-0.30	**22.10**	**0.162**	23.98	-1.88
2312.50	5	QPSK	1 / 0	22.40	-0.30	**22.10**	**0.162**	23.98	-1.88
2312.50	5	16-QAM	1 / 24	21.67	-0.30	**21.37**	0.137	23.98	-2.61
2312.50	5	64-QAM	1 / 24	20.85	-0.30	20.55	0.114	23.98	-3.43
2310.00	10	QPSK	1 / 0	22.35	-0.30	**22.05**	0.160	23.98	-1.93
2310.00	10	16-QAM	1 / 49	21.66	-0.30	21.36	0.137	23.98	-2.62
2310.00	10	64-QAM	1 / 49	20.74	-0.30	20.44	0.111	23.98	-3.54

Table 7-66. EIRP Data (Band 30)

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Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
2502.50	5	QPSK	1 / 24	24.71	-1.30	23.41	0.219	33.01	-9.60
2535.00	5	QPSK	1 / 0	24.63	-1.30	23.33	0.215	33.01	-9.68
2567.50	5	QPSK	1 / 24	24.75	-1.30	**23.45**	0.221	33.01	-9.56
2567.50	5	16-QAM	1 / 24	23.99	-1.30	22.69	0.186	33.01	-10.32
2567.50	5	64-QAM	1 / 0	23.26	-1.30	**21.96**	0.157	33.01	-11.05
2505.00	10	QPSK	1 / 49	24.73	-1.30	23.43	0.220	33.01	-9.58
2535.00	10	QPSK	1 / 0	24.75	-1.30	**23.45**	0.221	33.01	-9.56
2565.00	10	QPSK	1 / 0	24.65	-1.30	23.35	0.216	33.01	-9.66
2535.00	10	16-QAM	1 / 0	23.68	-1.30	22.38	0.173	33.01	-10.63
2535.00	10	64-QAM	1 / 49	23.06	-1.30	**21.76**	0.150	33.01	-11.25
2507.50	15	QPSK	1 / 38	24.75	-1.30	**23.45**	0.221	33.01	-9.56
2535.00	15	QPSK	1 / 38	24.75	-1.30	**23.45**	0.221	33.01	-9.56
2562.50	15	QPSK	1 / 0	24.66	-1.30	23.36	0.217	33.01	-9.65
2507.50	15	16-QAM	1 / 38	23.71	-1.30	22.41	0.174	33.01	-10.60
2507.50	15	64-QAM	1 / 38	22.76	-1.30	21.46	0.140	33.01	-11.55
2510.00	20	QPSK	1 / 99	24.67	-1.30	23.37	0.217	33.01	-9.64
2535.00	20	QPSK	1 / 0	24.66	-1.30	23.36	0.217	33.01	-9.65
2560.00	20	QPSK	1 / 0	24.77	-1.30	**23.47**	**0.222**	33.01	-9.54
2560.00	20	16-QAM	1 / 0	23.88	-1.30	22.58	0.181	33.01	-10.43
2560.00	20	64-QAM	1 / 50	23.09	-1.30	21.79	0.151	33.01	-11.22

Table 7-67. EIRP Data (Band 7)

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Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
2498.50	5	QPSK	1 / 24	25.83	-1.30	24.53	0.284	33.01	-8.48
2593.00	5	QPSK	1 / 0	27.98	-1.30	26.68	0.466	33.01	-6.33
2687.50	5	QPSK	1 / 24	27.99	-1.30	**26.69**	0.467	33.01	-6.32
2687.50	5	16-QAM	1 / 0	27.39	-1.30	26.09	0.406	33.01	-6.92
2687.50	5	64-QAM	1 / 24	26.86	-1.30	25.56	0.360	33.01	-7.45
2501.00	10	QPSK	1 / 49	26.00	-1.30	24.70	0.295	33.01	-8.31
2593.00	10	QPSK	1 / 49	28.00	-1.30	**26.70**	**0.468**	33.01	-6.31
2685.00	10	QPSK	1 / 0	28.00	-1.30	**26.70**	**0.468**	33.01	-6.31
2593.00	10	16-QAM	1 / 0	27.71	-1.30	**26.41**	0.438	33.01	-6.60
2593.00	10	64-QAM	1 / 0	26.90	-1.30	25.60	0.363	33.01	-7.41
2503.50	15	QPSK	1 / 74	25.98	-1.30	24.68	0.294	33.01	-8.33
2593.00	15	QPSK	1 / 0	28.00	-1.30	**26.70**	**0.468**	33.01	-6.31
2682.50	15	QPSK	1 / 74	27.97	-1.30	26.67	0.465	33.01	-6.34
2593.00	15	16-QAM	1 / 74	27.77	-1.30	**26.47**	0.444	33.01	-6.54
2593.00	15	64-QAM	1 / 0	26.91	-1.30	**25.61**	0.364	33.01	-7.40
2506.00	20	QPSK	1 / 99	25.95	-1.30	24.65	0.292	33.01	-8.36
2593.00	20	QPSK	1 / 0	28.00	-1.30	**26.70**	**0.468**	33.01	-6.31
2680.00	20	QPSK	1 / 0	27.99	-1.30	26.69	0.467	33.01	-6.32
2593.00	20	16-QAM	1 / 99	27.57	-1.30	26.27	0.424	33.01	-6.74
2593.00	20	64-QAM	1 / 99	27.12	-1.30	**25.82**	0.382	33.01	-7.19

Table 7-68. EIRP Data (Band 41 PC2)

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Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
2498.50	5	QPSK	1 / 24	24.01	-1.30	22.71	0.187	33.01	-10.30
2593.00	5	QPSK	1 / 0	25.69	-1.30	24.39	0.275	33.01	-8.62
2687.50	5	QPSK	1 / 0	25.70	-1.30	**24.40**	**0.275**	33.01	-8.61
2687.50	5	16-QAM	1 / 0	24.98	-1.30	23.68	0.233	33.01	-9.33
2687.50	5	64-QAM	1 / 24	24.27	-1.30	22.97	0.198	33.01	-10.04
2501.00	10	QPSK	1 / 49	24.08	-1.30	22.78	0.190	33.01	-10.23
2593.00	10	QPSK	1 / 0	25.70	-1.30	**24.40**	**0.275**	33.01	-8.61
2685.00	10	QPSK	1 / 0	25.51	-1.30	24.21	0.264	33.01	-8.80
2593.00	10	16-QAM	1 / 0	25.17	-1.30	**23.87**	0.244	33.01	-9.14
2593.00	10	64-QAM	1 / 49	24.25	-1.30	**22.95**	0.197	33.01	-10.06
2503.50	15	QPSK	1 / 74	24.27	-1.30	22.97	0.198	33.01	-10.04
2593.00	15	QPSK	1 / 0	25.62	-1.30	**24.32**	0.270	33.01	-8.69
2682.50	15	QPSK	1 / 0	25.52	-1.30	24.22	0.264	33.01	-8.79
2593.00	15	16-QAM	1 / 0	25.17	-1.30	**23.87**	0.244	33.01	-9.14
2593.00	15	64-QAM	1 / 0	24.25	-1.30	**22.95**	0.197	33.01	-10.06
2506.00	20	QPSK	1 / 99	24.24	-1.30	22.94	0.197	33.01	-10.07
2593.00	20	QPSK	1 / 0	25.59	-1.30	**24.29**	0.269	33.01	-8.72
2680.00	20	QPSK	1 / 0	25.52	-1.30	24.22	0.264	33.01	-8.79
2593.00	20	16-QAM	1 / 0	25.16	-1.30	**23.86**	0.243	33.01	-9.15
2593.00	20	64-QAM	1 / 0	24.25	-1.30	**22.95**	0.197	33.01	-10.06

Table 7-69. EIRP Data (Band 41 PC3)

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7.8.4 Port-D Radiated Power (ERP/EIRP)

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1710.70	1.4	QPSK	1 / 3	22.94	-0.40	22.54	0.179	30.00	-7.46
1732.50	1.4	QPSK	1 / 3	22.99	-0.40	**22.59**	0.182	30.00	-7.41
1754.30	1.4	QPSK	1 / 3	22.97	-0.40	22.57	0.181	30.00	-7.43
1732.50	1.4	16-QAM	1 / 0	22.20	-0.40	21.80	0.151	30.00	-8.20
1732.50	1.4	64-QAM	1 / 0	21.40	-0.40	21.00	0.126	30.00	-9.00
1711.50	3	QPSK	1 / 0	22.99	-0.40	22.59	0.182	30.00	-7.41
1732.50	3	QPSK	1 / 14	22.95	-0.40	22.55	0.180	30.00	-7.45
1753.50	3	QPSK	1 / 0	23.00	-0.40	**22.60**	**0.182**	30.00	-7.40
1753.50	3	16-QAM	1 / 14	22.25	-0.40	**21.85**	0.153	30.00	-8.15
1753.50	3	64-QAM	1 / 8	21.35	-0.40	20.95	0.124	30.00	-9.05
1712.50	5	QPSK	1 / 12	22.87	-0.40	22.47	0.177	30.00	-7.53
1732.50	5	QPSK	1 / 12	22.97	-0.40	**22.57**	0.181	30.00	-7.43
1752.50	5	QPSK	1 / 12	22.74	-0.40	22.34	0.171	30.00	-7.66
1732.50	5	16-QAM	1 / 24	22.02	-0.40	21.62	0.145	30.00	-8.38
1732.50	5	64-QAM	1 / 0	21.33	-0.40	20.93	0.124	30.00	-9.07
1715.00	10	QPSK	1 / 0	22.89	-0.40	22.49	0.177	30.00	-7.51
1732.50	10	QPSK	1 / 25	22.97	-0.40	22.57	0.181	30.00	-7.43
1750.00	10	QPSK	1 / 0	22.98	-0.40	**22.58**	0.181	30.00	-7.42
1750.00	10	16-QAM	1 / 0	22.16	-0.40	21.76	0.150	30.00	-8.24
1750.00	10	64-QAM	1 / 0	21.38	-0.40	**20.98**	0.125	30.00	-9.02
1717.50	15	QPSK	1 / 0	22.99	-0.40	22.59	0.182	30.00	-7.41
1732.50	15	QPSK	1 / 38	22.96	-0.40	22.56	0.180	30.00	-7.44
1747.50	15	QPSK	1 / 0	23.00	-0.40	**22.60**	**0.182**	30.00	-7.40
1747.50	15	16-QAM	1 / 0	22.14	-0.40	21.74	0.149	30.00	-8.26
1747.50	15	64-QAM	1 / 0	21.28	-0.40	20.88	0.122	30.00	-9.12
1720.00	20	QPSK	1 / 0	22.86	-0.40	**22.46**	0.176	30.00	-7.54
1732.50	20	QPSK	1 / 0	22.82	-0.40	22.42	0.175	30.00	-7.58
1745.00	20	QPSK	1 / 0	22.76	-0.40	22.36	0.172	30.00	-7.64
1720.00	20	16-QAM	1 / 0	22.11	-0.40	21.71	0.148	30.00	-8.29
1720.00	20	64-QAM	1 / 0	21.12	-0.40	20.72	0.118	30.00	-9.28

Table 7-70. EIRP Data (Band 4)

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Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1710.70	1.4	QPSK	1 / 5	22.90	-0.40	22.50	0.178	30.00	-7.50
1745.00	1.4	QPSK	1 / 5	22.71	-0.40	22.31	0.170	30.00	-7.69
1779.30	1.4	QPSK	1 / 0	23.00	-0.40	**22.60**	**0.182**	30.00	-7.40
1779.30	1.4	16-QAM	1 / 5	22.16	-0.40	21.76	0.150	30.00	-8.24
1779.30	1.4	64-QAM	1 / 0	21.37	-0.40	**20.97**	0.125	30.00	-9.03
1711.50	3	QPSK	1 / 8	22.89	-0.40	**22.49**	0.177	30.00	-7.51
1745.00	3	QPSK	1 / 8	22.70	-0.40	22.30	0.170	30.00	-7.70
1778.50	3	QPSK	1 / 0	22.74	-0.40	22.34	0.171	30.00	-7.66
1711.50	3	16-QAM	1 / 8	22.11	-0.40	21.71	0.148	30.00	-8.29
1711.50	3	64-QAM	1 / 8	21.28	-0.40	**20.88**	0.122	30.00	-9.12
1712.50	5	QPSK	1 / 0	23.00	-0.40	**22.60**	**0.182**	30.00	-7.40
1745.00	5	QPSK	1 / 24	22.81	-0.40	22.41	0.174	30.00	-7.59
1777.50	5	QPSK	1 / 12	22.94	-0.40	22.54	0.179	30.00	-7.46
1712.50	5	16-QAM	1 / 12	22.16	-0.40	21.76	0.150	30.00	-8.24
1712.50	5	64-QAM	1 / 0	21.21	-0.40	20.81	0.121	30.00	-9.19
1715.00	10	QPSK	1 / 0	23.00	-0.40	**22.60**	**0.182**	30.00	-7.40
1745.00	10	QPSK	1 / 49	22.86	-0.40	22.46	0.176	30.00	-7.54
1775.00	10	QPSK	1 / 0	22.85	-0.40	22.45	0.176	30.00	-7.55
1715.00	10	16-QAM	1 / 0	22.38	-0.40	21.98	0.158	30.00	-8.02
1715.00	10	64-QAM	1 / 0	21.45	-0.40	**21.05**	0.127	30.00	-8.95
1717.50	15	QPSK	1 / 0	22.99	-0.40	**22.59**	0.182	30.00	-7.41
1745.00	15	QPSK	1 / 74	22.83	-0.40	22.43	0.175	30.00	-7.57
1772.50	15	QPSK	1 / 0	22.88	-0.40	22.48	0.177	30.00	-7.52
1717.50	15	16-QAM	1 / 0	22.33	-0.40	**21.93**	0.156	30.00	-8.07
1717.50	15	64-QAM	1 / 0	21.46	-0.40	**21.06**	0.128	30.00	-8.94
1720.00	20	QPSK	1 / 0	22.76	-0.40	22.36	0.172	30.00	-7.64
1745.00	20	QPSK	1 / 0	23.00	-0.40	**22.60**	**0.182**	30.00	-7.40
1770.00	20	QPSK	1 / 0	22.76	-0.40	22.36	0.172	30.00	-7.64
1745.00	20	16-QAM	1 / 50	22.13	-0.40	21.73	0.149	30.00	-8.27
1745.00	20	64-QAM	1 / 99	21.27	-0.40	20.87	0.122	30.00	-9.13

Table 7-71. EIRP Data (Band 66)

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Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1850.70	1.4	QPSK	1 / 0	22.71	0.30	23.01	0.200	33.01	-10.00
1880.00	1.4	QPSK	1 / 0	22.61	0.30	22.91	0.195	33.01	-10.10
1909.30	1.4	QPSK	1 / 0	22.86	0.30	**23.16**	0.207	33.01	-9.85
1909.30	1.4	16-QAM	1 / 3	21.78	0.30	22.08	0.161	33.01	-10.93
1909.30	1.4	64-QAM	1 / 0	20.92	0.30	**21.22**	0.132	33.01	-11.79
1851.50	3	QPSK	1 / 0	22.60	0.30	22.90	0.195	33.01	-10.11
1880.00	3	QPSK	1 / 0	22.56	0.30	22.86	0.193	33.01	-10.15
1908.50	3	QPSK	1 / 8	23.00	0.30	**23.30**	**0.214**	33.01	-9.71
1908.50	3	16-QAM	1 / 8	21.70	0.30	**22.00**	0.158	33.01	-11.01
1908.50	3	64-QAM	1 / 0	21.00	0.30	**21.30**	0.135	33.01	-11.71
1852.50	5	QPSK	1 / 24	22.55	0.30	22.85	0.193	33.01	-10.16
1880.00	5	QPSK	1 / 0	22.53	0.30	22.83	0.192	33.01	-10.18
1907.50	5	QPSK	1 / 0	22.85	0.30	**23.15**	0.207	33.01	-9.86
1907.50	5	16-QAM	1 / 0	22.02	0.30	**22.32**	0.171	33.01	-10.69
1907.50	5	64-QAM	1 / 0	21.11	0.30	**21.41**	0.138	33.01	-11.60
1855.00	10	QPSK	1 / 0	22.81	0.30	23.11	0.205	33.01	-9.90
1880.00	10	QPSK	1 / 0	22.77	0.30	23.07	0.203	33.01	-9.94
1905.00	10	QPSK	1 / 0	23.00	0.30	**23.30**	**0.214**	33.01	-9.71
1905.00	10	16-QAM	1 / 0	21.96	0.30	**22.26**	0.168	33.01	-10.75
1905.00	10	64-QAM	1 / 0	21.08	0.30	**21.38**	0.137	33.01	-11.63
1857.50	15	QPSK	1 / 0	22.83	0.30	23.13	0.206	33.01	-9.88
1880.00	15	QPSK	1 / 0	22.56	0.30	22.86	0.193	33.01	-10.15
1902.50	15	QPSK	1 / 0	23.00	0.30	**23.30**	**0.214**	33.01	-9.71
1902.50	15	16-QAM	1 / 0	21.91	0.30	**22.21**	0.166	33.01	-10.80
1902.50	15	64-QAM	1 / 0	21.10	0.30	**21.40**	0.138	33.01	-11.61
1860.00	20	QPSK	1 / 0	22.79	0.30	23.09	0.204	33.01	-9.92
1880.00	20	QPSK	1 / 0	22.65	0.30	22.95	0.197	33.01	-10.06
1900.00	20	QPSK	1 / 0	23.00	0.30	**23.30**	**0.214**	33.01	-9.71
1900.00	20	16-QAM	1 / 0	22.20	0.30	**22.50**	0.178	33.01	-10.51
1900.00	20	64-QAM	1 / 0	20.85	0.30	21.15	0.130	33.01	-11.86

Table 7-72. EIRP Data (Band 2)

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Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1850.70	1.4	QPSK	1 / 0	22.78	0.30	23.08	0.203	33.01	-9.93
1882.50	1.4	QPSK	1 / 0	22.64	0.30	22.94	0.197	33.01	-10.07
1914.30	1.4	QPSK	1 / 0	22.92	0.30	**23.22**	0.210	33.01	-9.79
1914.30	1.4	16-QAM	1 / 0	21.95	0.30	**22.25**	0.168	33.01	-10.76
1914.30	1.4	64-QAM	1 / 0	21.10	0.30	**21.40**	0.138	33.01	-11.61
1851.50	3	QPSK	1 / 8	22.62	0.30	22.92	0.196	33.01	-10.09
1882.50	3	QPSK	1 / 8	22.54	0.30	22.84	0.192	33.01	-10.17
1913.50	3	QPSK	1 / 8	23.00	0.30	**23.30**	**0.214**	33.01	-9.71
1913.50	3	16-QAM	1 / 14	21.74	0.30	22.04	0.160	33.01	-10.97
1913.50	3	64-QAM	1 / 0	21.03	0.30	**21.33**	0.136	33.01	-11.68
1852.50	5	QPSK	1 / 0	22.73	0.30	23.03	0.201	33.01	-9.98
1882.50	5	QPSK	1 / 0	22.52	0.30	22.82	0.191	33.01	-10.19
1912.50	5	QPSK	1 / 0	22.81	0.30	**23.11**	0.205	33.01	-9.90
1912.50	5	16-QAM	1 / 0	21.97	0.30	**22.27**	0.169	33.01	-10.74
1912.50	5	64-QAM	1 / 24	21.05	0.30	**21.35**	0.136	33.01	-11.66
1855.00	10	QPSK	1 / 0	22.76	0.30	23.06	0.202	33.01	-9.95
1882.50	10	QPSK	1 / 0	22.61	0.30	22.91	0.195	33.01	-10.10
1910.00	10	QPSK	1 / 0	23.00	0.30	**23.30**	**0.214**	33.01	-9.71
1910.00	10	16-QAM	1 / 0	21.72	0.30	22.02	0.159	33.01	-10.99
1910.00	10	64-QAM	1 / 0	21.22	0.30	**21.52**	0.142	33.01	-11.49
1857.50	15	QPSK	1 / 0	22.76	0.30	23.06	0.202	33.01	-9.95
1882.50	15	QPSK	1 / 0	22.73	0.30	23.03	0.201	33.01	-9.98
1907.50	15	QPSK	1 / 0	23.00	0.30	**23.30**	**0.214**	33.01	-9.71
1907.50	15	16-QAM	1 / 0	22.06	0.30	**22.36**	0.172	33.01	-10.65
1907.50	15	64-QAM	1 / 0	21.33	0.30	**21.63**	0.146	33.01	-11.38
1860.00	20	QPSK	1 / 0	23.00	0.30	**23.30**	**0.214**	33.01	-9.71
1882.50	20	QPSK	1 / 0	22.62	0.30	22.92	0.196	33.01	-10.09
1905.00	20	QPSK	1 / 0	22.84	0.30	23.14	0.206	33.01	-9.87
1860.00	20	16-QAM	1 / 0	22.13	0.30	22.43	0.175	33.01	-10.58
1860.00	20	64-QAM	1 / 0	21.09	0.30	21.39	0.138	33.01	-11.62

Table 7-73. EIRP Data (Band 25)

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Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
2307.50	5	QPSK	1 / 12	22.16	0.20	**22.36**	0.172	23.98	-1.62
2312.50	5	QPSK	1 / 24	22.06	0.20	22.26	0.168	23.98	-1.72
2312.50	5	16-QAM	1 / 0	21.41	0.20	**21.61**	0.145	23.98	-2.37
2312.50	5	64-QAM	1 / 0	20.11	0.20	20.31	0.107	23.98	-3.67
2310.00	10	QPSK	1 / 0	22.19	0.20	**22.39**	**0.173**	23.98	-1.59
2310.00	10	16-QAM	1 / 25	21.50	0.20	21.70	0.148	23.98	-2.28
2310.00	10	64-QAM	1 / 25	20.56	0.20	20.76	0.119	23.98	-3.22

Table 7-74. EIRP Data (Band 30)

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Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
2502.50	5	QPSK	1 / 24	22.29	-0.20	22.09	0.162	33.01	-10.92
2535.00	5	QPSK	1 / 24	22.71	-0.20	**22.51**	0.178	33.01	-10.50
2567.50	5	QPSK	1 / 0	22.44	-0.20	22.24	0.167	33.01	-10.77
2535.00	5	16-QAM	1 / 24	22.00	-0.20	**21.80**	0.151	33.01	-11.21
2535.00	5	64-QAM	1 / 12	21.33	-0.20	**21.13**	0.130	33.01	-11.88
2505.00	10	QPSK	1 / 0	22.74	-0.20	22.54	0.179	33.01	-10.47
2535.00	10	QPSK	1 / 25	23.00	-0.20	**22.80**	**0.191**	33.01	-10.21
2565.00	10	QPSK	1 / 0	22.94	-0.20	22.74	0.188	33.01	-10.27
2535.00	10	16-QAM	1 / 0	22.06	-0.20	21.86	0.153	33.01	-11.15
2535.00	10	64-QAM	1 / 0	21.17	-0.20	20.97	0.125	33.01	-12.04
2507.50	15	QPSK	1 / 0	22.90	-0.20	22.70	0.186	33.01	-10.31
2535.00	15	QPSK	1 / 0	22.88	-0.20	22.68	0.185	33.01	-10.33
2562.50	15	QPSK	1 / 0	23.00	-0.20	**22.80**	**0.191**	33.01	-10.21
2562.50	15	16-QAM	1 / 0	21.99	-0.20	21.79	0.151	33.01	-11.22
2562.50	15	64-QAM	1 / 0	21.35	-0.20	**21.15**	0.130	33.01	-11.86
2510.00	20	QPSK	1 / 0	22.69	-0.20	22.49	0.177	33.01	-10.52
2535.00	20	QPSK	1 / 0	23.00	-0.20	**22.80**	**0.191**	33.01	-10.21
2560.00	20	QPSK	1 / 0	22.89	-0.20	22.69	0.186	33.01	-10.32
2535.00	20	16-QAM	1 / 99	22.26	-0.20	**22.06**	0.161	33.01	-10.95
2535.00	20	64-QAM	1 / 50	21.09	-0.20	20.89	0.123	33.01	-12.12

Table 7-75. EIRP Data (Band 7)

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Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
2498.50	5	QPSK	1 / 0	23.34	-0.20	23.14	0.206	33.01	-9.87
2593.00	5	QPSK	1 / 24	25.07	-0.20	24.87	0.307	33.01	-8.14
2687.50	5	QPSK	1 / 0	25.16	-0.20	**24.96**	0.313	33.01	-8.05
2687.50	5	16-QAM	1 / 0	24.56	-0.20	24.36	0.273	33.01	-8.65
2687.50	5	64-QAM	1 / 0	23.46	-0.20	23.26	0.212	33.01	-9.75
2501.00	10	QPSK	1 / 49	23.33	-0.20	23.13	0.206	33.01	-9.88
2593.00	10	QPSK	1 / 49	25.12	-0.20	24.92	0.310	33.01	-8.09
2685.00	10	QPSK	1 / 25	25.39	-0.20	**25.19**	0.330	33.01	-7.82
2685.00	10	16-QAM	1 / 0	24.55	-0.20	**24.35**	0.272	33.01	-8.66
2685.00	10	64-QAM	1 / 0	23.69	-0.20	**23.49**	0.223	33.01	-9.52
2503.50	15	QPSK	1 / 74	23.47	-0.20	23.27	0.212	33.01	-9.74
2593.00	15	QPSK	1 / 74	25.49	-0.20	**25.29**	**0.338**	33.01	-7.72
2682.50	15	QPSK	1 / 74	25.14	-0.20	24.94	0.312	33.01	-8.07
2593.00	15	16-QAM	1 / 38	24.77	-0.20	**24.57**	0.286	33.01	-8.44
2593.00	15	64-QAM	1 / 74	23.77	-0.20	**23.57**	0.228	33.01	-9.44
2682.50	15	64-QAM	1 / 38	23.71	-0.20	23.51	0.224	33.01	-9.50
2506.00	20	QPSK	1 / 0	23.09	-0.20	22.89	0.195	33.01	-10.12
2593.00	20	QPSK	1 / 50	25.10	-0.20	24.90	0.309	33.01	-8.11
2680.00	20	QPSK	1 / 0	25.47	-0.20	**25.27**	0.337	33.01	-7.74
2680.00	20	16-QAM	1 / 0	24.73	-0.20	**24.53**	0.284	33.01	-8.48
2680.00	20	64-QAM	1 / 0	23.55	-0.20	23.35	0.216	33.01	-9.66

Table 7-76. EIRP Data (Band 41 PC2)

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Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
2498.50	5	QPSK	1 / 12	22.01	-0.20	21.81	0.152	33.01	-11.20
2593.00	5	QPSK	1 / 0	22.19	-0.20	21.99	0.158	33.01	-11.02
2687.50	5	QPSK	1 / 0	22.28	-0.20	22.08	0.161	33.01	-10.93
2687.50	5	16-QAM	1 / 0	21.76	-0.20	**21.56**	0.143	33.01	-11.45
2687.50	5	64-QAM	1 / 12	20.92	-0.20	**20.72**	0.118	33.01	-12.29
2501.00	10	QPSK	1 / 25	22.50	-0.20	**22.30**	**0.170**	33.01	-10.71
2593.00	10	QPSK	1 / 0	22.31	-0.20	22.11	0.163	33.01	-10.90
2685.00	10	QPSK	1 / 49	22.38	-0.20	22.18	0.165	33.01	-10.83
2685.00	10	16-QAM	1 / 0	21.79	-0.20	**21.59**	0.144	33.01	-11.42
2685.00	10	64-QAM	1 / 0	20.95	-0.20	**20.75**	0.119	33.01	-12.26
2503.50	15	QPSK	1 / 38	22.11	-0.20	21.91	0.155	33.01	-11.10
2593.00	15	QPSK	1 / 0	22.14	-0.20	21.94	0.156	33.01	-11.07
2682.50	15	QPSK	1 / 74	22.39	-0.20	22.19	0.166	33.01	-10.82
2593.00	15	16-QAM	1 / 38	21.59	-0.20	21.39	0.138	33.01	-11.62
2593.00	15	64-QAM	1 / 38	20.96	-0.20	**20.76**	0.119	33.01	-12.25
2682.50	15	64-QAM	1 / 38	20.65	-0.20	20.45	0.111	33.01	-12.56
2506.00	20	QPSK	1 / 99	22.02	-0.20	21.82	0.152	33.01	-11.19
2593.00	20	QPSK	1 / 0	22.29	-0.20	22.09	0.162	33.01	-10.92
2680.00	20	QPSK	1 / 0	22.10	-0.20	21.90	0.155	33.01	-11.11
2680.00	20	16-QAM	1 / 0	21.75	-0.20	21.55	0.143	33.01	-11.46
2680.00	20	64-QAM	1 / 99	20.91	-0.20	**20.71**	0.118	33.01	-12.30

Table 7-77. EIRP Data (Band 41 PC3)

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7.9 Radiated Spurious Emissions Measurements

Test Overview

Radiated spurious emissions measurements are performed using the substitution method described in ANSI/TIA-603-E-2016 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using vertically and horizontally polarized tuned dipole antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized broadband horn antennas.

Test Procedures Used

KDB 971168 D01 v03r01 – Section 5.8

ANSI/TIA-603-E-2016 – Section 2.2.12

Test Settings

1. RBW = 100kHz for emissions below 1GHz and 1MHz for emissions above 1GHz
2. VBW ≥ 3 x RBW
3. Span = 1.5 times the OBW
4. No. of sweep points ≥ 2 x span / RBW
5. Detector = RMS
6. Trace mode = Average (Max Hold for pulsed emissions)
7. The trace was allowed to stabilize

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Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

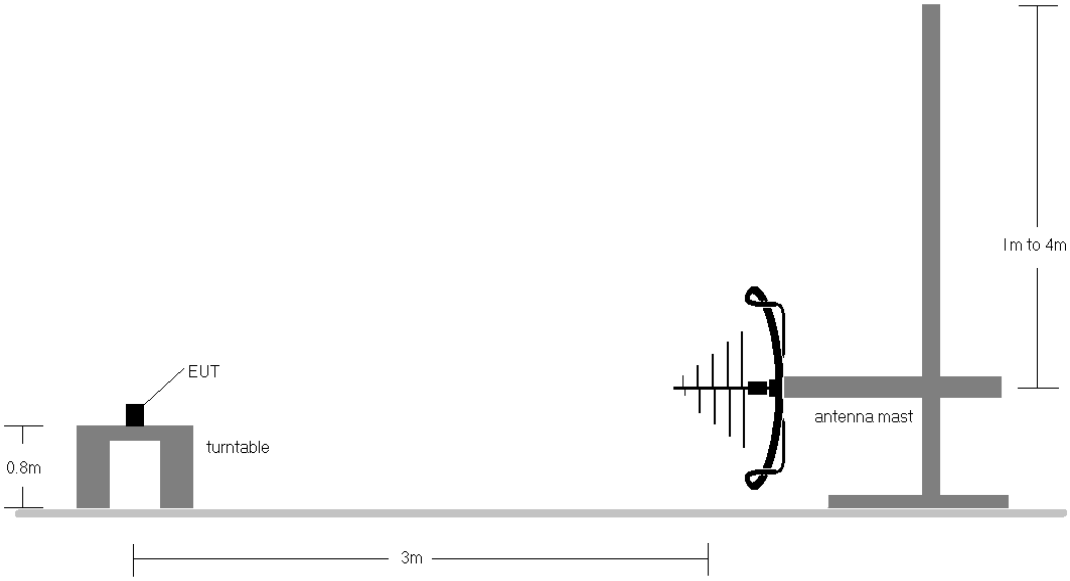

Figure 7-8. Test Instrument & Measurement Setup < 1GHz

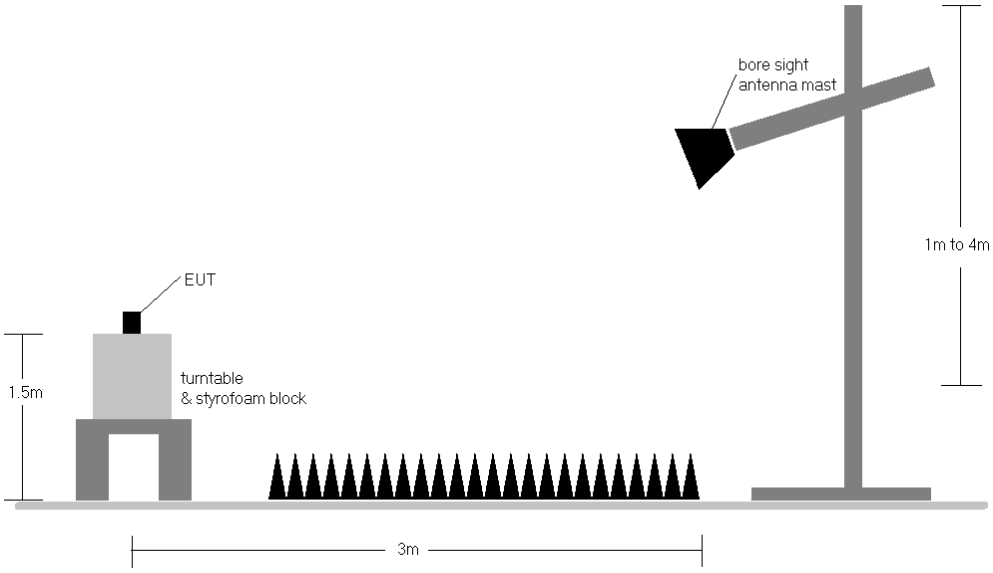

Figure 7-9. Test Instrument & Measurement Setup > 1GHz

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Test Notes

1) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.

2) This unit was tested with its standard battery.

3) The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.

4) Emissions below 18GHz were measured at a 3 meter test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.

5) The "-" shown in the following RSE tables are used to denote a noise floor measurement.

6) Below 1GHz pre-scan plot shows no significant emissions.

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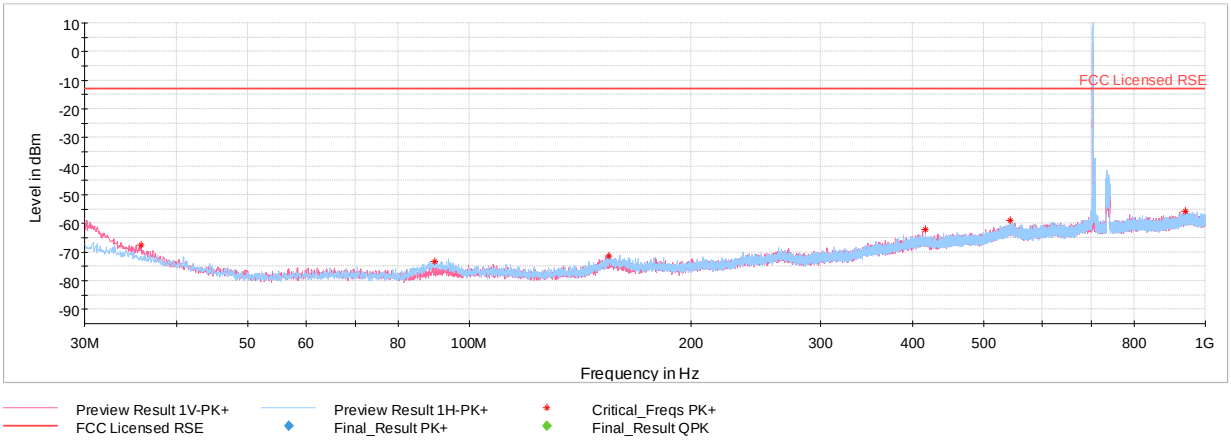
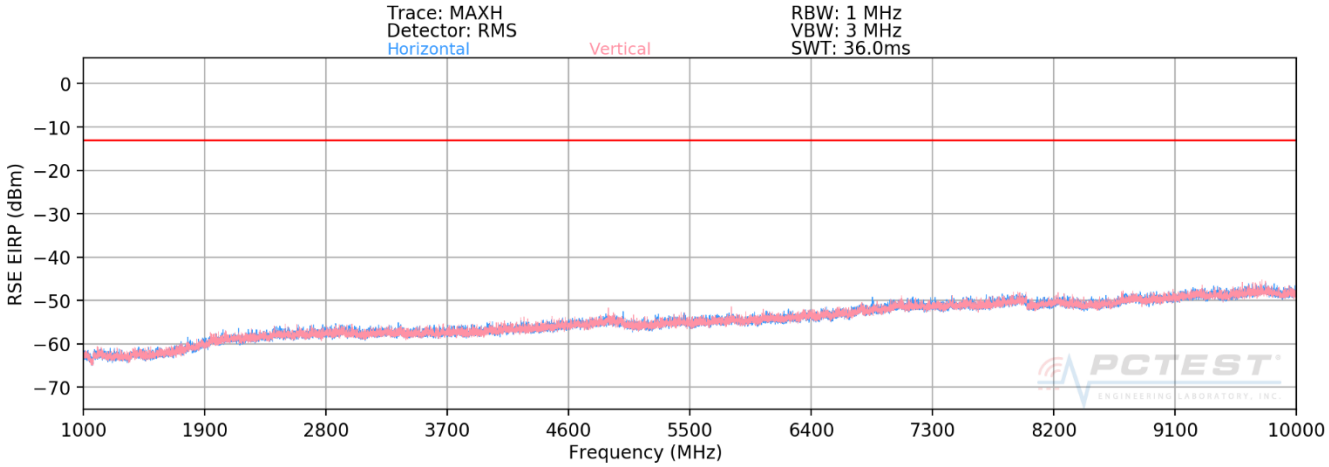
7.9.1 ANT 3 (Port-A) Radiated Spurious Emissions Measurements Band 12/17



Plot 7-419. Radiated Spurious Plot below 1GHz (Band 12/17)



Plot 7-420. Radiated Spurious Plot above 1GHz (Band 12/17)

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OPERATING FREQUENCY:	704.00	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	10.0	MHz
DISTANCE:	3	meters
LIMIT:	-13	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1408.00	-	-	-	-71.73	3.76	-67.97	-55.0
2112.00	-	-	-	-68.19	3.56	-64.63	-51.6
2816.00	-	-	-	-68.48	5.36	-63.13	-50.1

Table 7-78. Radiated Spurious Data (Band 12/17 – Low Channel)

OPERATING FREQUENCY:	707.50	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	10.0	MHz
DISTANCE:	3	meters
LIMIT:	-13	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1415.00	-	-	-	-71.56	3.86	-67.70	-54.7
2122.50	-	-	-	-67.80	3.66	-64.14	-51.1
2830.00	-	-	-	-68.57	5.42	-63.15	-50.1

Table 7-79. Radiated Spurious Data (Band 12/17 – Mid Channel)

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OPERATING FREQUENCY:	711.00	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	10.0	MHz
DISTANCE:	3	meters
LIMIT:	-13	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1422.00	-	-	-	-71.76	3.96	-67.80	-54.8
2133.00	-	-	-	-68.17	3.73	-64.44	-51.4
2844.00	-	-	-	-69.06	5.57	-63.50	-50.5

Table 7-80. Radiated Spurious Data (Band 12/17 – High Channel)

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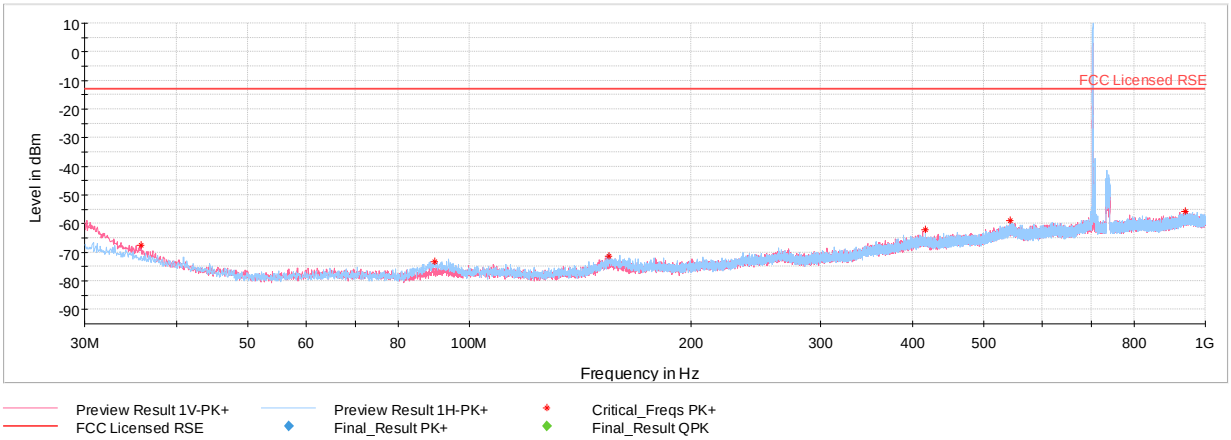
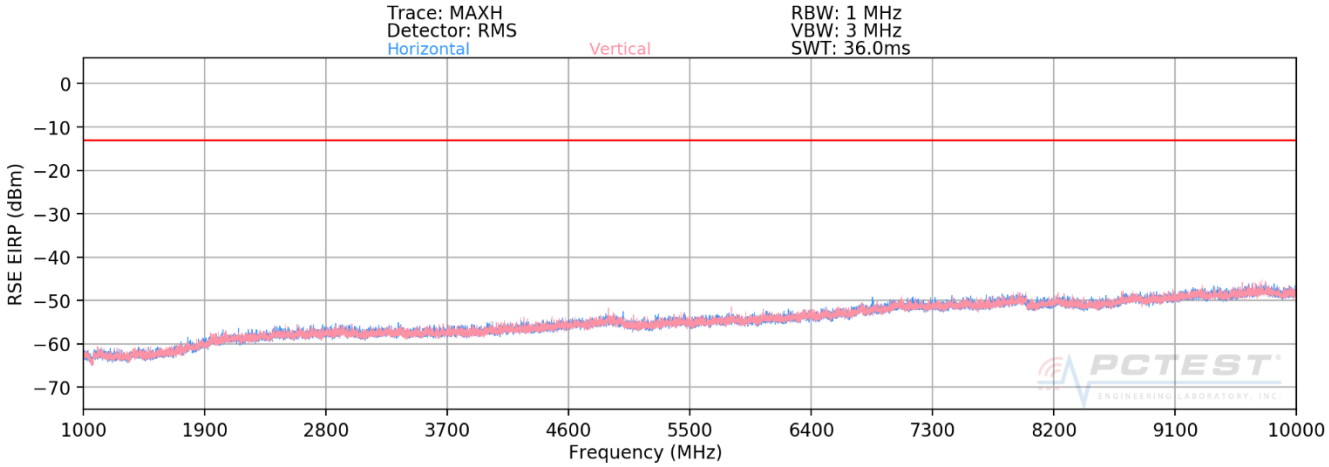
Band 13



Plot 7-421. Radiated Spurious Plot below 1GHz (Band 13)



Plot 7-422. Radiated Spurious Plot above 1GHz (Band 13)

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OPERATING FREQUENCY:	779.50	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	5MHz	MHz
DISTANCE:	3	meters
LIMIT:	-13	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
2338.50	-	-	-	-67.76	4.02	-63.74	-50.7
3120.50	-	-	-	-69.76	6.25	-63.50	-50.5

Table 7-81. Radiated Spurious Data (Band 13 – Low Channel)

OPERATING FREQUENCY:	782.00	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	10MHz	MHz
DISTANCE:	3	meters
LIMIT:	-13	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
2346.00	-	-	-	-67.88	4.07	-63.81	-50.8
3128.00	-	-	-	-69.38	6.27	-63.11	-50.1

Table 7-82. Radiated Spurious Data (Band 13 – Mid Channel)

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OPERATING FREQUENCY:	784.50	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	5MHz	MHz
DISTANCE:	3	meters
LIMIT:	-13	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
2353.50	-	-	-	-68.15	4.12	-64.03	-51.0
3138.00	-	-	-	-69.73	6.30	-63.44	-50.4

Table 7-83. Radiated Spurious Data (Band 13 – High Channel)

MODULATION SIGNAL:	QPSK	
BANDWIDTH:	5MHz	MHz
DISTANCE:	3	meters
NARROWBAND EMISSION LIMIT:	-50	dBm
WIDEBAND EMISSION LIMIT:	-40	dBm/MHz

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1559.00	-	-	-	-72.58	4.41	-68.17	-28.2
1564.00	-	-	-	-72.10	4.41	-67.69	-27.7
1569.00	-	-	-	-71.92	4.41	-67.51	-27.5

Table 7-84. Radiated Spurious Data (Band 13 – 1559-1610MHz Band)

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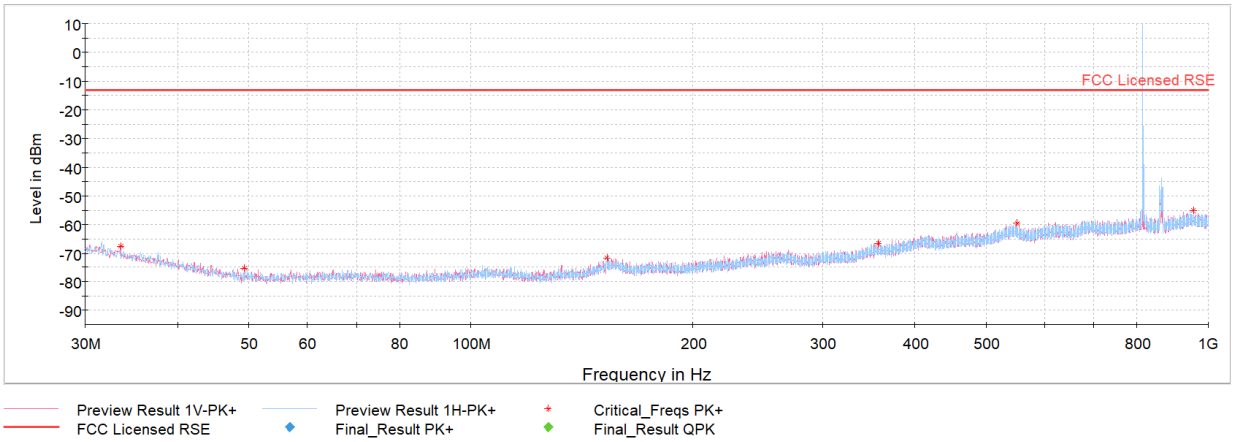
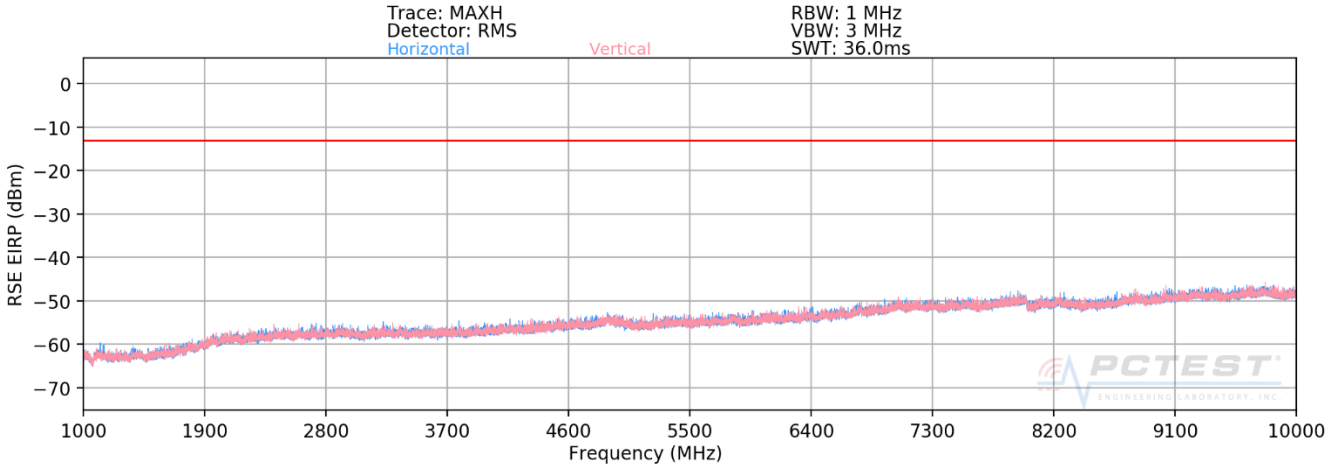
Band 26/5



Plot 7-423. Radiated Spurious Plot below 1GHz (Band 26/5)



Plot 7-424. Radiated Spurious Plot above 1GHz (Band 26/5)

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OPERATING FREQUENCY:	829.00	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	10MHz	MHz
DISTANCE:	3	meters
LIMIT:	-13	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1658.00	-	-	-	-72.07	4.72	-67.35	-54.3
2487.00	-	-	-	-67.88	4.34	-63.54	-50.5
3316.00	-	-	-	-69.59	6.63	-62.96	-50.0

Table 7-85. Radiated Spurious Data (Band 26/5 – Low Channel)

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OPERATING FREQUENCY:	836.50	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	10MHz	MHz
DISTANCE:	3	meters
LIMIT:	-13	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1673.00	-	-	-	-71.72	4.68	-67.04	-54.0
2509.50	-	-	-	-68.28	4.35	-63.93	-50.9
3346.00	-	-	-	-71.79	6.67	-65.12	-52.1

Table 7-86. Radiated Spurious Data (Band 26/5 – Mid Channel)

OPERATING FREQUENCY:	844.00	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	10MHz	MHz
DISTANCE:	3	meters
LIMIT:	-13	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1688.00	-	-	-	-71.59	4.65	-66.94	-53.9
2532.00	-	-	-	-67.91	4.43	-63.48	-50.5
3376.00	-	-	-	-69.79	6.75	-63.04	-50.0

Table 7-87. Radiated Spurious Data (Band 26/5 – High Channel)

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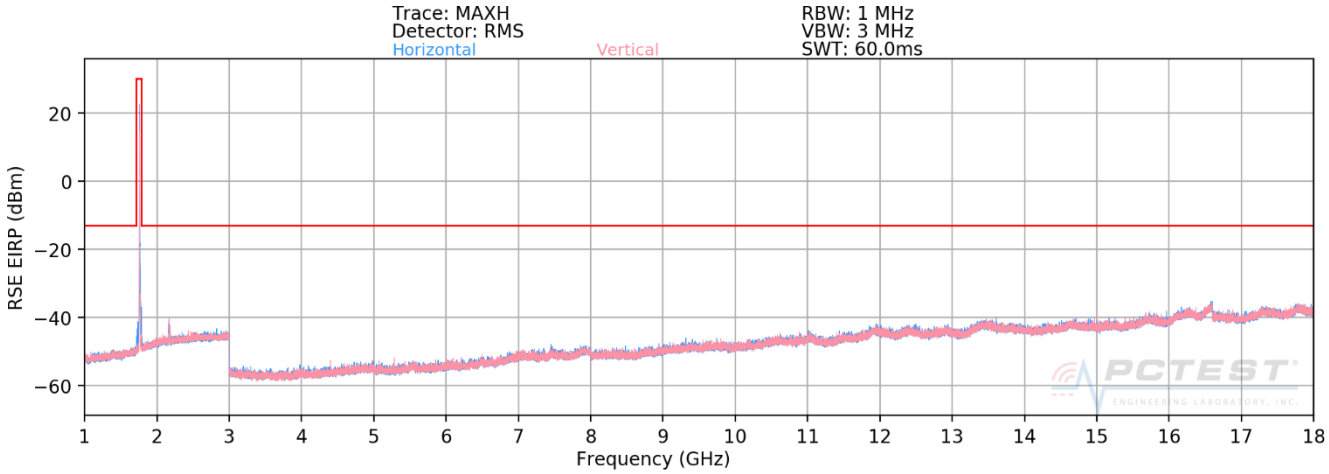
7.9.1 ANT 4b (Port-A) Radiated Spurious Emissions Measurements

Band 66/4



Plot 7-425. Radiated Spurious Plot above 1GHz (Band 66/4)

OPERATING FREQUENCY:	1720.00	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	20.0	MHz
DISTANCE:	3	meters
LIMIT:	-13	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3440.00	H	-	-	-70.31	6.90	-63.40	-50.4
5160.00	H	-	-	-71.48	9.10	-62.38	-49.4
6880.00	H	-	-	-69.40	9.83	-59.57	-46.6

Table 7-88. Radiated Spurious Data (Band 66/4 – Low Channel)

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OPERATING FREQUENCY:	1745.00	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	20.0	MHz
DISTANCE:	3	meters
LIMIT:	-13	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3490.00	H	-	-	-70.22	6.99	-63.23	-50.2
5235.00	H	-	-	-71.46	9.22	-62.24	-49.2
6980.00	H	-	-	-69.64	9.81	-59.83	-46.8

Table 7-89. Radiated Spurious Data (Band 66/4 – Mid Channel)

OPERATING FREQUENCY:	1770.00	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	20.0	MHz
DISTANCE:	3	meters
LIMIT:	-13	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3540.00	H	-	-	-70.19	6.95	-63.24	-50.2
5310.00	H	-	-	-72.07	9.22	-62.85	-49.9
7080.00	H	-	-	-69.14	9.83	-59.31	-46.3

Table 7-90. Radiated Spurious Data (Band 66/4 – High Channel)

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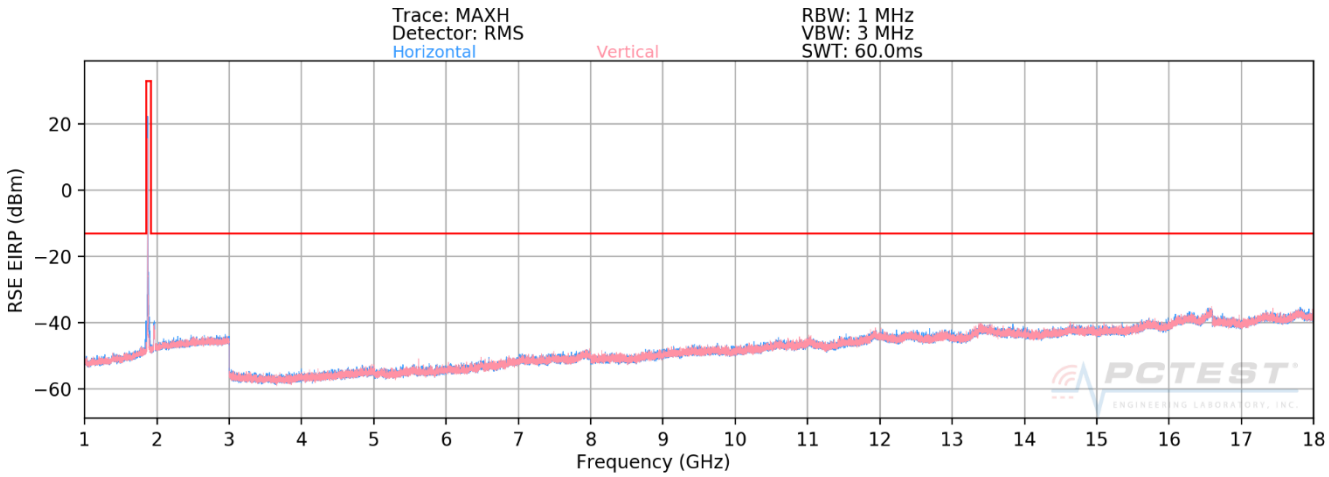
Band 25/2



Plot 7-426. Radiated Spurious Plot above 1GHz (Band 25/2)

OPERATING FREQUENCY:	1860.00	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	20.0	MHz
DISTANCE:	3	meters
LIMIT:	-13	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3720.00	H	-	-	-70.36	7.32	-63.04	-50.0
5580.00	H	-	-	-70.28	9.32	-60.96	-48.0
7440.00	H	-	-	-67.94	9.44	-58.49	-45.5

Table 7-91. Radiated Spurious Data (Band 25/2 – Low Channel)

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OPERATING FREQUENCY:	1882.50	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	20.0	MHz
DISTANCE:	3	meters
LIMIT:	-13	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3765.00	H	-	-	-70.74	7.40	-63.33	-50.3
5647.50	H	-	-	-71.33	9.46	-61.87	-48.9
7530.00	H	-	-	-67.65	9.45	-58.21	-45.2

Table 7-92. Radiated Spurious Data (Band 25/2 – Mid Channel)

OPERATING FREQUENCY:	1905.00	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	20.0	MHz
DISTANCE:	3	meters
LIMIT:	-13	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3810.00	H	-	-	-70.50	7.57	-62.94	-49.9
5715.00	H	-	-	-70.75	9.45	-61.29	-48.3
7620.00	H	-	-	-67.58	9.53	-58.06	-45.1

Table 7-93. Radiated Spurious Data (Band 25/2 – High Channel)

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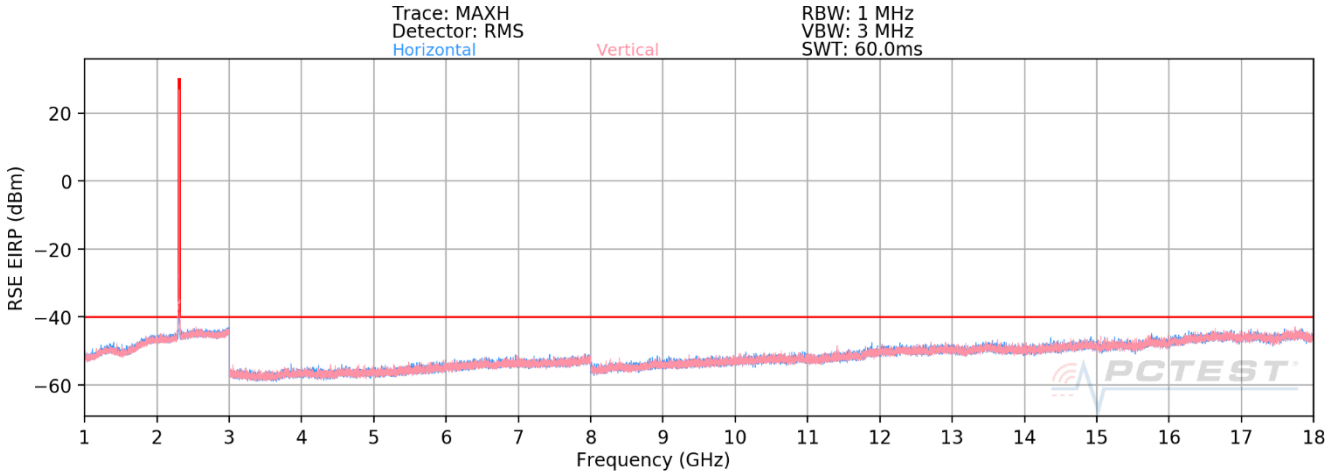
Band 30



Plot 7-427. Radiated Spurious Plot 1GHz - 18GHz (Band 30)

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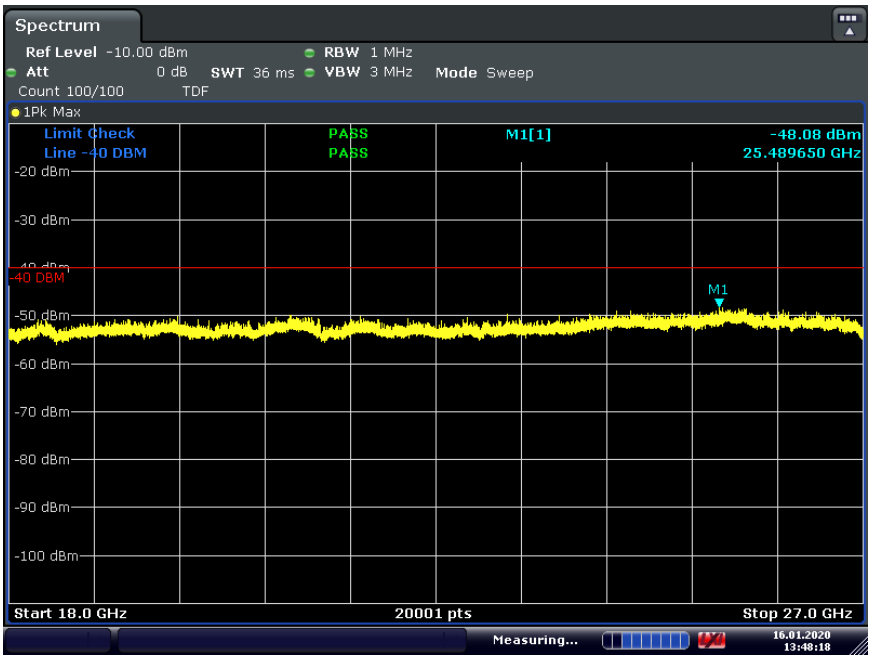
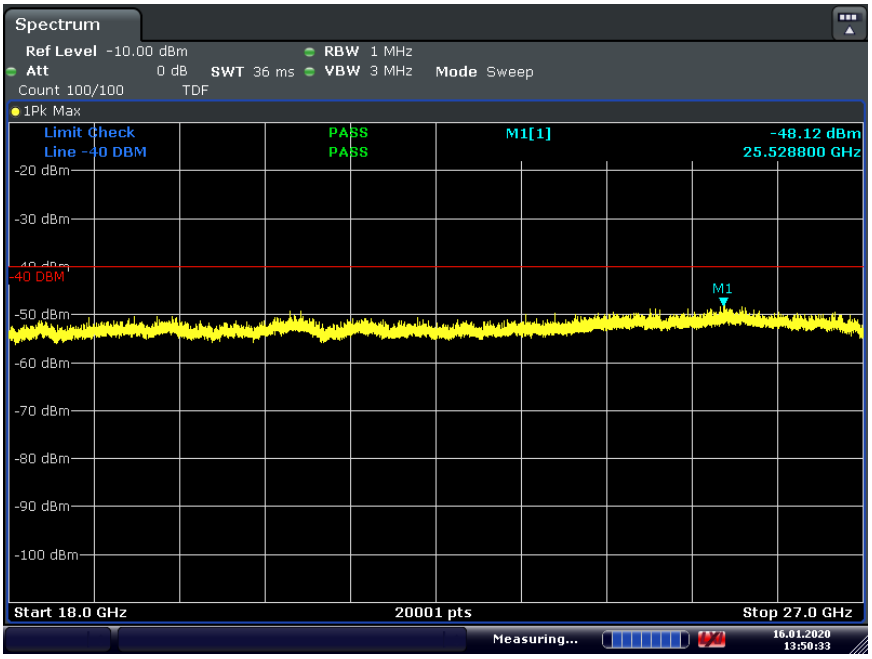


Plot 7-428. Radiated Spurious Plot 18GHz – 27GHz H (Band 30)



Plot 7-429. Radiated Spurious Plot 18GHz – 27GHz V (Band 30)

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OPERATING FREQUENCY:	2307.50	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	5.0	MHz
DISTANCE:	3	meters
LIMIT:	-40	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
4615.00	H	-	-	-70.24	8.40	-61.84	-21.8
6922.50	H	-	-	-68.92	9.84	-59.08	-19.1
9230.00	H	-	-	-65.76	9.62	-56.14	-16.1

Table 7-94. Radiated Spurious Data (Band 30 – Low Channel)

OPERATING FREQUENCY:	2310.00	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	10.0	MHz
DISTANCE:	3	meters
LIMIT:	-40	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
4620.00	H	-	-	-70.49	8.40	-62.09	-22.1
6930.00	H	-	-	-68.98	9.85	-59.13	-19.1
9240.00	H	-	-	-66.27	9.62	-56.65	-16.6

Table 7-95. Radiated Spurious Data (Band 30 – Mid Channel)

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OPERATING FREQUENCY:	2312.50	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	5.0	MHz
DISTANCE:	3	meters
LIMIT:	-40	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
4625.00	H	-	-	-70.60	8.40	-62.19	-22.2
6937.50	H	-	-	-68.99	9.86	-59.12	-19.1
9250.00	H	-	-	-66.04	9.62	-56.41	-16.4

Table 7-96. Radiated Spurious Data (Band 30 – High Channel)

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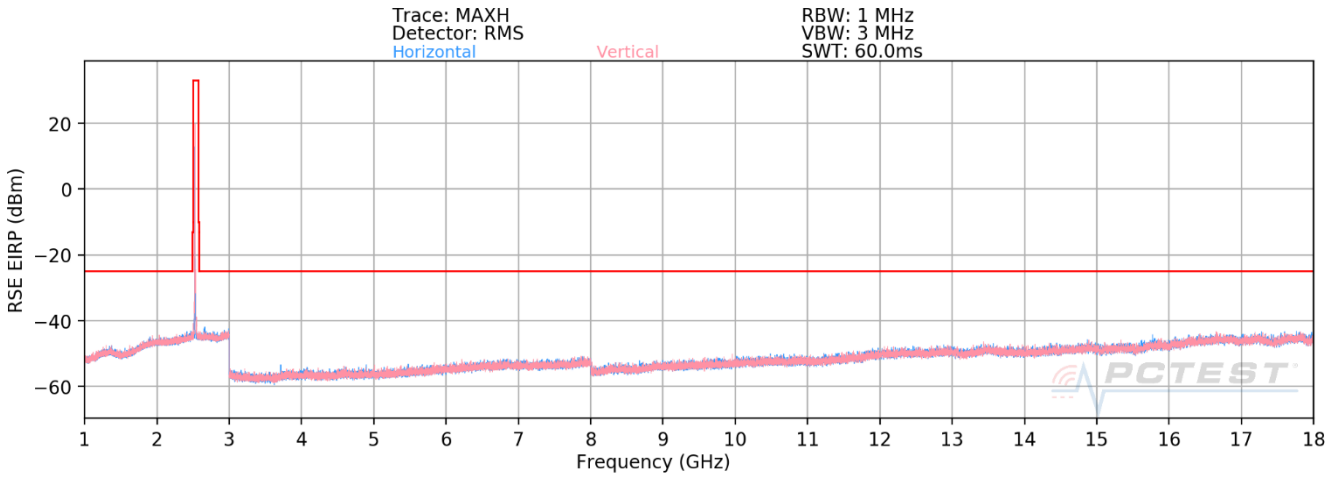
Band 7



Plot 7-430. Radiated Spurious Plot 1GHz - 18GHz (Band 7)

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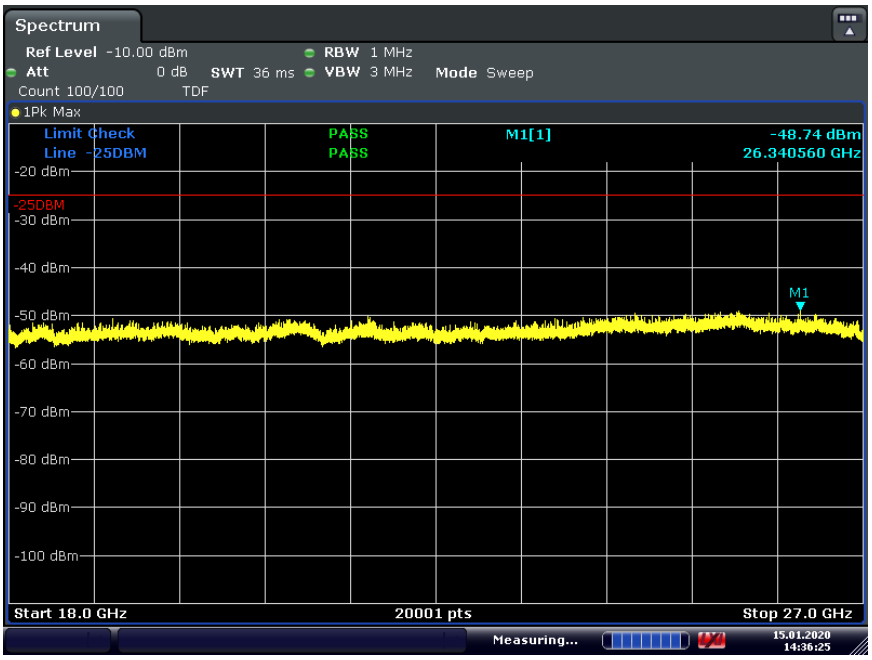
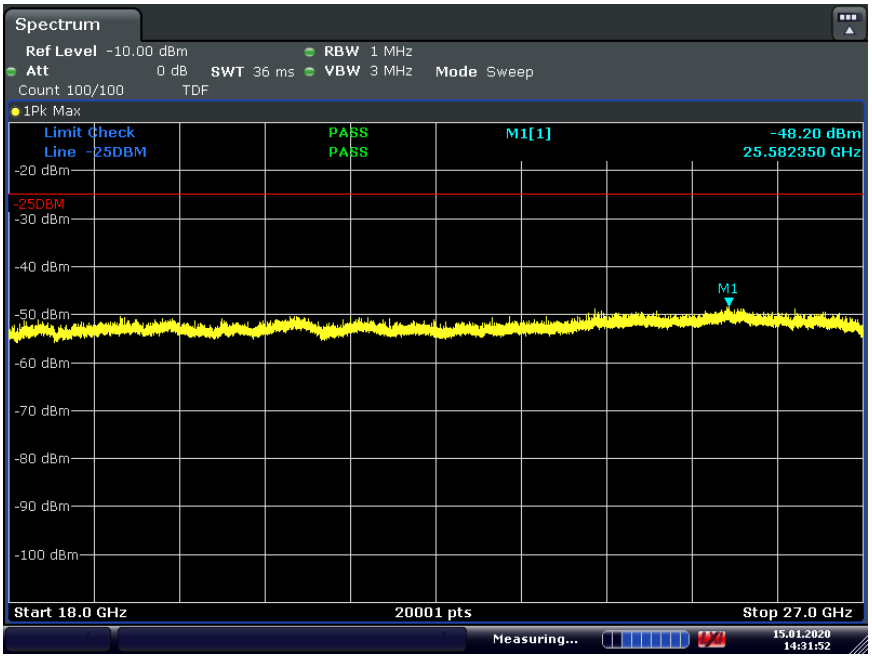


Plot 7-431. Radiated Spurious Plot 18GHz – 27GHz H (Band 7)



Plot 7-432. Radiated Spurious Plot 18GHz – 27GHz V (Band 7)

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OPERATING FREQUENCY:	2510.00	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	20.0	MHz
DISTANCE:	3	meters
LIMIT:	-25	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5020.00	H	-	-	-70.30	8.73	-61.57	-36.6
7530.00	H	-	-	-66.47	9.45	-57.03	-32.0
10040.00	H	-	-	-64.46	9.64	-54.82	-29.8

Table 7-97. Radiated Spurious Data (Band 7 – Low Channel)

OPERATING FREQUENCY:	2535.00	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	20.0	MHz
DISTANCE:	3	meters
LIMIT:	-25	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5070.00	H	-	-	-70.90	8.85	-62.04	-37.0
7605.00	H	-	-	-67.41	9.50	-57.91	-32.9
10140.00	H	-	-	-64.72	9.72	-55.01	-30.0

Table 7-98. Radiated Spurious Data (Band 7 – Mid Channel)

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OPERATING FREQUENCY:	2560.00	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	20.0	MHz
DISTANCE:	3	meters
LIMIT:	-25	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5120.00	H	-	-	-70.71	8.97	-61.74	-36.7
7680.00	H	-	-	-67.73	9.55	-58.18	-33.2
10240.00	H	-	-	-64.35	9.70	-54.65	-29.7

Table 7-99. Radiated Spurious Data (Band 7 – High Channel)

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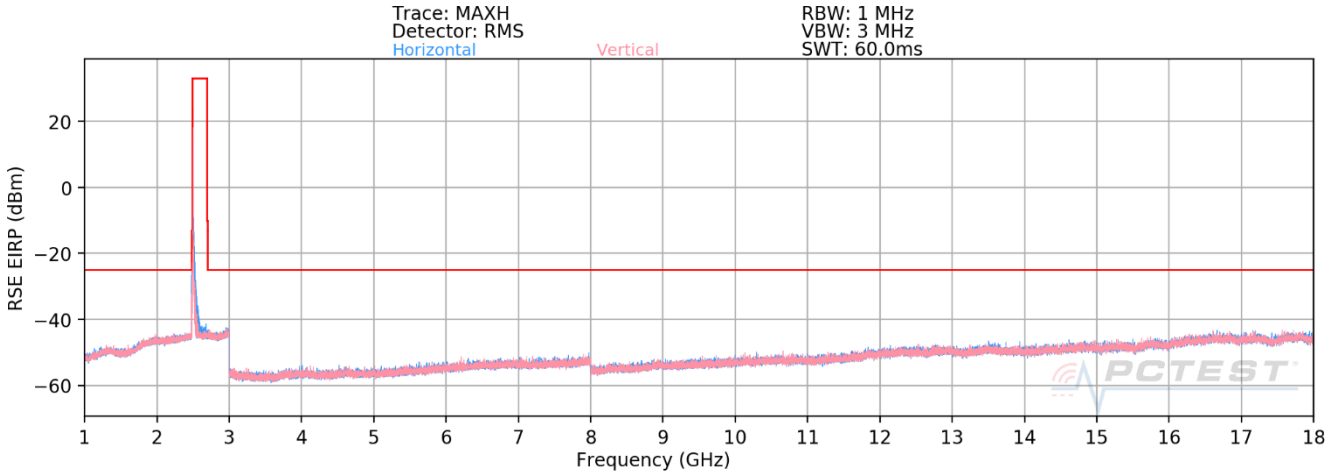
Band 41



Plot 7-433. Radiated Spurious Plot 1GHz - 18GHz (Band 41)

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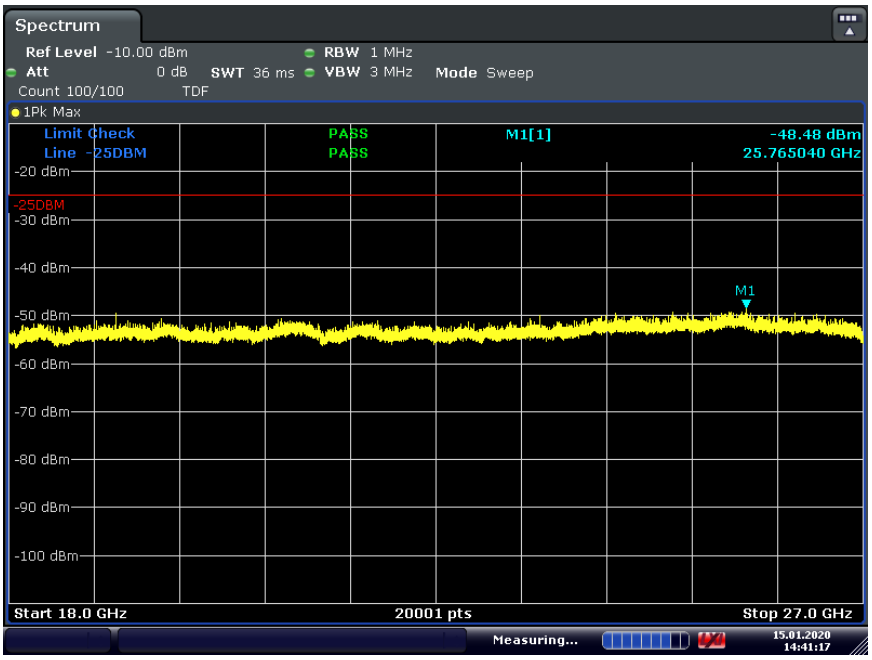
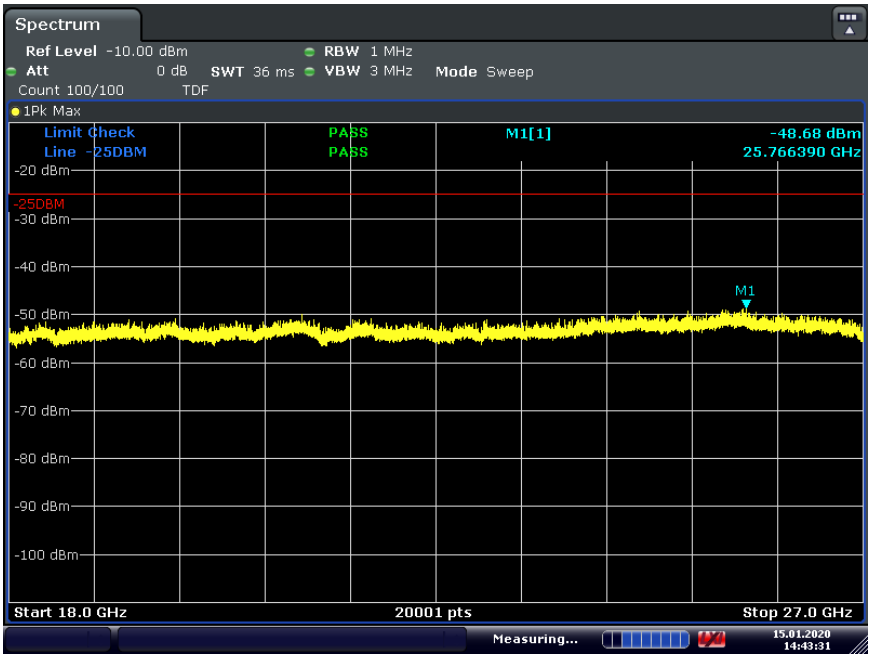


Plot 7-434. Radiated Spurious Plot 18GHz – 27GHz H (Band 41)



Plot 7-435. Radiated Spurious Plot 18GHz – 27GHz V (Band 41)

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OPERATING FREQUENCY:	2506.00	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	20.0	MHz
DISTANCE:	3	meters
LIMIT:	-25	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5012.00	H	-	-	-60.76	8.71	-52.05	-27.0
7518.00	H	-	-	-58.14	9.46	-48.68	-23.7
10024.00	H	-	-	-55.67	9.64	-46.03	-21.0

Table 7-100. Radiated Spurious Data (Band 41 – Low Channel)

OPERATING FREQUENCY:	2593.00	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	20.0	MHz
DISTANCE:	3	meters
LIMIT:	-25	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5186.00	H	342	362	-60.66	9.18	-51.48	-26.5
7779.00	H	-	-	-57.66	9.59	-48.06	-23.1
10372.00	H	-	-	-54.48	9.72	-44.76	-19.8
12965.00	H	-	-	-51.10	9.34	-41.76	-16.8

Table 7-101. Radiated Spurious Data (Band 41 – Mid Channel)

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OPERATING FREQUENCY:	2680.00	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	20.0	MHz
DISTANCE:	3	meters
LIMIT:	-25	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5360.00	H	-	-	-60.92	9.19	-51.73	-26.7
8040.00	H	-	-	-57.87	9.67	-48.20	-23.2
10720.00	H	-	-	-54.57	9.69	-44.87	-19.9

Table 7-102. Radiated Spurious Data (Band 41 – High Channel)

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7.9.2 ANT 1 (Port-B) Radiated Spurious Emissions Measurements Band 12/17

OPERATING FREQUENCY:	704.00	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	10.0	MHz
DISTANCE:	3	meters
LIMIT:	-13	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1408.00	H	-	-	-71.57	3.76	-67.81	-54.8
2112.00	H	-	-	-68.32	3.56	-64.76	-51.8
2816.00	H	-	-	-68.63	5.36	-63.28	-50.3

Table 7-103. Radiated Spurious Data (Band 12/17 – Low Channel)

OPERATING FREQUENCY:	707.50	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	10.0	MHz
DISTANCE:	3	meters
LIMIT:	-13	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1415.00	H	-	-	-71.84	3.86	-67.98	-55.0
2122.50	H	-	-	-68.12	3.66	-64.46	-51.5
2830.00	H	-	-	-68.46	5.42	-63.04	-50.0

Table 7-104. Radiated Spurious Data (Band 12/17 – Mid Channel)

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OPERATING FREQUENCY:	711.00	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	10.0	MHz
DISTANCE:	3	meters
LIMIT:	-13	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1422.00	H	-	-	-72.20	3.96	-68.24	-55.2
2133.00	H	-	-	-68.42	3.73	-64.69	-51.7
2844.00	H	-	-	-68.96	5.57	-63.40	-50.4

Table 7-105. Radiated Spurious Data (Band 12/17 – High Channel)

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Band 13

OPERATING FREQUENCY:	779.50	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	5MHz	MHz
DISTANCE:	3	meters
LIMIT:	-13	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
2338.50	H	-	-	-67.95	4.02	-63.93	-50.9
3118.00	H	-	-	-69.36	6.25	-63.11	-50.1

Table 7-106. Radiated Spurious Data (Band 13 – Low Channel)

OPERATING FREQUENCY:	782.00	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	10.0	MHz
DISTANCE:	3	meters
LIMIT:	-13	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
2346.00	H	-	-	-68.03	4.07	-63.96	-51.0
3128.00	H	-	-	-69.21	6.27	-62.94	-49.9

Table 7-107. Radiated Spurious Data (Band 13 – Mid Channel)

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OPERATING FREQUENCY:	784.50	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	5MHz	MHz
DISTANCE:	3	meters
LIMIT:	-13	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
2353.50	H	-	-	-68.24	4.12	-64.12	-51.1
3138.00	H	-	-	-69.52	6.30	-63.23	-50.2

Table 7-108. Radiated Spurious Data (Band 13 – High Channel)

MODULATION SIGNAL:	QPSK	
BANDWIDTH:	5MHz	MHz
DISTANCE:	3	meters
NARROWBAND EMISSION LIMIT:	-50	dBm
WIDEBAND EMISSION LIMIT:	-40	dBm/MHz

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1559.00	-	-	-	-72.85	4.41	-68.44	-28.4
1564.00	-	-	-	-72.23	4.41	-67.82	-27.8
1569.00	-	-	-	-71.90	4.41	-67.49	-27.5

Table 7-109. Radiated Spurious Data (Band 13 – 1559-1610MHz Band)

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Band 26/5

OPERATING FREQUENCY:	829.00	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	10.0	MHz
DISTANCE:	3	meters
LIMIT:	-13	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1658.00	H	-	-	-72.14	4.72	-67.42	-54.4
2487.00	H	-	-	-67.94	4.34	-63.60	-50.6
3316.00	H	-	-	-69.82	6.63	-63.19	-50.2

Table 7-110. Radiated Spurious Data (Band 26/5 – Low Channel)

OPERATING FREQUENCY:	836.50	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	10.0	MHz
DISTANCE:	3	meters
LIMIT:	-13	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1673.00	H	-	-	-71.29	4.68	-66.61	-53.6
2509.50	H	-	-	-67.95	4.35	-63.60	-50.6
3346.00	H	-	-	-69.72	6.67	-63.05	-50.0

Table 7-111. Radiated Spurious Data (Band 26/5 – Mid Channel)

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OPERATING FREQUENCY:	844.00	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	10.0	MHz
DISTANCE:	3	meters
LIMIT:	-13	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1688.00	H	-	-	-70.64	4.65	-65.99	-53.0
2532.00	H	-	-	-67.37	4.43	-62.94	-49.9
3376.00	H	-	-	-69.66	6.75	-62.91	-49.9

Table 7-112. Radiated Spurious Data (Band 26/5 – High Channel)

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7.9.3 ANT 2b (Port-B) Radiated Spurious Emissions Measurements Band 66/4

OPERATING FREQUENCY:	1720.00	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	20.0	MHz
DISTANCE:	3	meters
LIMIT:	-13	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3440.00	H	-	-	-69.40	6.90	-62.49	-49.5
5160.00	H	106	117	-69.38	9.10	-60.28	-47.3
6880.00	H	-	-	-68.15	9.83	-58.32	-45.3

Table 7-113. Radiated Spurious Data (Band 66/4 – Low Channel)

OPERATING FREQUENCY:	1745.00	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	20.0	MHz
DISTANCE:	3	meters
LIMIT:	-13	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3490.00	H	-	-	-69.60	6.99	-62.61	-49.6
5235.00	H	-	-	-70.63	9.22	-61.41	-48.4
6980.00	H	-	-	-68.34	9.81	-58.53	-45.5

Table 7-114. Radiated Spurious Data (Band 66/4 – Mid Channel)

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OPERATING FREQUENCY:	1770.00	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	20.0	MHz
DISTANCE:	3	meters
LIMIT:	-13	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3540.00	H	-	-	-68.98	6.95	-62.03	-49.0
5310.00	H	-	-	-70.20	9.22	-60.98	-48.0
7080.00	H	-	-	-68.11	9.83	-58.28	-45.3

Table 7-115. Radiated Spurious Data (Band 66/4 – High Channel)

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Band 25/2

OPERATING FREQUENCY:	1860.00	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	20.0	MHz
DISTANCE:	3	meters
LIMIT:	-13	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3720.00	H	-	-	-69.34	7.34	-62.00	-49.0
5580.00	H	110	121	-68.78	9.34	-59.44	-46.4
7440.00	H	-	-	-66.98	9.43	-57.54	-44.5

Table 7-116. Radiated Spurious Data (Band 25/2 – Low Channel)

OPERATING FREQUENCY:	1882.50	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	20.0	MHz
DISTANCE:	3	meters
LIMIT:	-13	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3765.00	H	-	-	-70.06	7.40	-62.65	-49.7
5647.50	H	-	-	-70.40	9.46	-60.94	-47.9
7530.00	H	-	-	-66.61	9.45	-57.17	-44.2

Table 7-117. Radiated Spurious Data (Band 25/2 – Mid Channel)

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OPERATING FREQUENCY:	1905.00	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	20.0	MHz
DISTANCE:	3	meters
LIMIT:	-13	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3810.00	H	-	-	-69.97	7.52	-62.45	-49.4
5715.00	H	-	-	-70.04	9.45	-60.59	-47.6
7620.00	H	-	-	-66.88	9.52	-57.36	-44.4

Table 7-118. Radiated Spurious Data (Band 25/2 – High Channel)

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Band 30

OPERATING FREQUENCY:	2307.50	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	5.0	MHz
DISTANCE:	3	meters
LIMIT:	-40	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
4615.00	H	-	-	-69.61	8.40	-61.21	-21.2
6922.50	H	-	-	-68.59	9.84	-58.75	-18.7
9230.00	H	-	-	-65.62	9.62	-56.00	-16.0

Table 7-119. Radiated Spurious Data (Band 30 – Low Channel)

OPERATING FREQUENCY:	2310.00	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	10.0	MHz
DISTANCE:	3	meters
LIMIT:	-40	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
4620.00	H	-	-	-69.97	8.40	-61.57	-21.6
6930.00	H	-	-	-68.74	9.85	-58.89	-18.9
9240.00	H	-	-	-65.51	9.62	-55.89	-15.9

Table 7-120. Radiated Spurious Data (Band 30 – Mid Channel)

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OPERATING FREQUENCY:	2312.5	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	5.00	MHz
DISTANCE:	3.0	meters
LIMIT:	-40	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
4625.00	H	-	-	-69.93	8.40	-61.52	-21.5
6937.50	H	-	-	-68.43	9.86	-58.56	-18.6
9250.00	H	-	-	-65.35	9.62	-55.72	-15.7

Table 7-121. Radiated Spurious Data (Band 30 – High Channel)

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Band 7

OPERATING FREQUENCY:	2510.00	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	20.0	MHz
DISTANCE:	3	meters
LIMIT:	-25	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5020.00	H	-	-	-70.19	8.73	-61.46	-36.5
7530.00	H	-	-	-66.91	9.45	-57.47	-32.5
10040.00	H	-	-	-64.53	9.64	-54.89	-29.9

Table 7-122. Radiated Spurious Data (Band 7 – Low Channel)

OPERATING FREQUENCY:	2535.00	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	20.0	MHz
DISTANCE:	3	meters
LIMIT:	-25	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5070.00	H	-	-	-69.93	8.85	-61.07	-36.1
7605.00	H	-	-	-67.23	9.50	-57.73	-32.7
10140.00	H	-	-	-64.25	9.72	-54.54	-29.5

Table 7-123. Radiated Spurious Data (Band 7 – Mid Channel)

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OPERATING FREQUENCY:	2560.00	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	20.0	MHz
DISTANCE:	3	meters
LIMIT:	-25	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5120.00	H	-	-	-70.01	8.97	-61.04	-36.0
7680.00	H	-	-	-67.53	9.55	-57.98	-33.0
10240.00	H	-	-	-64.89	9.70	-55.19	-30.2

Table 7-124. Radiated Spurious Data (Band 7 – High Channel)

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Band 41

OPERATING FREQUENCY:	2506.00	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	20.0	MHz
DISTANCE:	3	meters
LIMIT:	-25	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5012.00	H	-	-	-60.83	8.71	-52.12	-27.1
7518.00	H	-	-	-57.91	9.46	-48.45	-23.4
10024.00	H	-	-	-54.90	9.64	-45.26	-20.3

Table 7-125. Radiated Spurious Data (Band 41 – Low Channel)

OPERATING FREQUENCY:	2593.00	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	20.0	MHz
DISTANCE:	3	meters
LIMIT:	-25	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5186.00	H	-	-	-61.38	9.18	-52.20	-27.2
7779.00	H	-	-	-57.75	9.59	-48.15	-23.2
10372.00	H	-	-	-55.18	9.72	-45.46	-20.5

Table 7-126. Radiated Spurious Data (Band 41 – Mid Channel)

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OPERATING FREQUENCY:	2680.00	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	20.0	MHz
DISTANCE:	3	meters
LIMIT:	-25	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5360.00	H	-	-	-61.28	9.19	-52.09	-27.1
8040.00	H	-	-	-57.41	9.67	-47.74	-22.7
10720.00	H	-	-	-54.16	9.69	-44.46	-19.5

Table 7-127. Radiated Spurious Data (Band 41 – High Channel)

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7.9.4 ANT 4a (Port-C) Radiated Spurious Emissions Measurements Band 66/4

OPERATING FREQUENCY:	1720.00	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	20.0	MHz
DISTANCE:	3	meters
LIMIT:	-13	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3440.00	H	-	-	-70.99	6.90	-64.08	-51.1
5160.00	H	-	-	-71.56	9.10	-62.46	-49.5
6880.00	H	-	-	-69.54	9.83	-59.71	-46.7

Table 7-128. Radiated Spurious Data (Band 66/4 – Low Channel)

OPERATING FREQUENCY:	1745.00	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	20.0	MHz
DISTANCE:	3	meters
LIMIT:	-13	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3490.00	H	-	-	-70.38	6.99	-63.39	-50.4
5235.00	H	-	-	-71.80	9.22	-62.58	-49.6
6980.00	H	-	-	-69.56	9.81	-59.75	-46.8

Table 7-129. Radiated Spurious Data (Band 66/4 – Mid Channel)

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OPERATING FREQUENCY:	1770.00	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	20.0	MHz
DISTANCE:	3	meters
LIMIT:	-13	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3540.00	H	-	-	-70.05	6.95	-63.10	-50.1
5310.00	H	-	-	-71.86	9.22	-62.64	-49.6
7080.00	H	-	-	-69.45	9.83	-59.62	-46.6

Table 7-130. Radiated Spurious Data (Band 66/4 – High Channel)

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Band 25/2

OPERATING FREQUENCY:	1860.00	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	20.0	MHz
DISTANCE:	3	meters
LIMIT:	-13	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3720.00	H	-	-	-69.60	7.34	-62.26	-49.3
5580.00	H	-	-	-70.29	9.35	-60.93	-47.9
7440.00	H	-	-	-67.00	9.42	-57.58	-44.6

Table 7-131. Radiated Spurious Data (Band 25/2 – Low Channel)

OPERATING FREQUENCY:	1882.50	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	20.0	MHz
DISTANCE:	3	meters
LIMIT:	-13	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3765.00	H	-	-	-69.68	7.40	-62.27	-49.3
5647.50	H	-	-	-70.25	9.46	-60.79	-47.8
7530.00	H	-	-	-66.62	9.45	-57.18	-44.2

Table 7-132. Radiated Spurious Data (Band 25/2 – Mid Channel)

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OPERATING FREQUENCY:	1905.00	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	20.0	MHz
DISTANCE:	3	meters
LIMIT:	-13	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3810.00	H	-	-	-70.01	7.52	-62.49	-49.5
5715.00	H	-	-	-70.50	9.45	-61.05	-48.1
7620.00	H	-	-	-66.88	9.51	-57.36	-44.4

Table 7-133. Radiated Spurious Data (Band 25/2 – High Channel)

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Band 30

OPERATING FREQUENCY:	2307.50	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	5.0	MHz
DISTANCE:	3	meters
LIMIT:	-40	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
4615.00	H	-	-	-69.95	8.40	-61.55	-21.5
6922.50	H	-	-	-68.49	9.84	-58.65	-18.6
9230.00	H	-	-	-65.60	9.62	-55.98	-16.0

Table 7-134. Radiated Spurious Data (Band 30 – Low Channel)

OPERATING FREQUENCY:	2310.00	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	10.0	MHz
DISTANCE:	3	meters
LIMIT:	-40	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
4620.00	H	-	-	-69.92	8.40	-61.52	-21.5
6930.00	H	-	-	-68.45	9.85	-58.60	-18.6
9240.00	H	-	-	-65.61	9.62	-55.99	-16.0

Table 7-135. Radiated Spurious Data (Band 30 – Mid Channel)

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OPERATING FREQUENCY:	2312.50	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	5.0	MHz
DISTANCE:	3	meters
LIMIT:	-40	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
4625.00	H	-	-	-69.92	8.40	-61.51	-21.5
6937.50	H	-	-	-68.53	9.86	-58.66	-18.7
9250.00	H	-	-	-65.39	9.62	-55.76	-15.8

Table 7-136. Radiated Spurious Data (Band 30 – High Channel)

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Band 7

OPERATING FREQUENCY:	2510.00	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	20.0	MHz
DISTANCE:	3	meters
LIMIT:	-25	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5020.00	H	-	-	-69.27	8.73	-60.54	-35.5
7530.00	H	-	-	-65.81	9.45	-56.37	-31.4
10040.00	H	-	-	-62.89	9.64	-53.25	-28.2

Table 7-137. Radiated Spurious Data (Band 7 – Low Channel)

OPERATING FREQUENCY:	2535.00	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	20.0	MHz
DISTANCE:	3	meters
LIMIT:	-25	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5070.00	V	301	181	-68.42	8.85	-59.56	-34.6
7605.00	H	-	-	-65.31	9.50	-55.81	-30.8
10140.00	H	-	-	-63.71	9.72	-54.00	-29.0
12675.00	H	-	-	-60.57	9.40	-51.17	-26.2

Table 7-138. Radiated Spurious Data (Band 7 – Mid Channel)

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OPERATING FREQUENCY:	2560.00	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	20.0	MHz
DISTANCE:	3	meters
LIMIT:	-25	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5120.00	H	-	-	-68.72	8.97	-59.75	-34.7
7680.00	H	-	-	-66.27	9.55	-56.72	-31.7
10240.00	H	-	-	-62.73	9.70	-53.03	-28.0

Table 7-139. Radiated Spurious Data (Band 7 – High Channel)

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Band 41

OPERATING FREQUENCY:	2506.00	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	20.0	MHz
DISTANCE:	3	meters
LIMIT:	-25	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5012.00	H	-	-	-60.76	8.71	-52.05	-27.0
7518.00	H	-	-	-58.14	9.46	-48.68	-23.7
10024.00	H	-	-	-55.67	9.64	-46.03	-21.0

Table 7-140. Radiated Spurious Data (Band 41 – Low Channel)

OPERATING FREQUENCY:	2593.00	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	20.0	MHz
DISTANCE:	3	meters
LIMIT:	-25	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5186.00	H	182	84	-61.31	9.18	-52.13	-27.1
7779.00	H	-	-	-58.08	9.59	-48.48	-23.5
10372.00	H	-	-	-55.40	9.72	-45.68	-20.7
12965.00	H	-	-	-52.35	9.34	-43.01	-18.0

Table 7-141. Radiated Spurious Data (Band 41 – Mid Channel)

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OPERATING FREQUENCY:	2680.00	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	20.0	MHz
DISTANCE:	3	meters
LIMIT:	-25	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5360.00	H	-	-	-60.22	9.19	-51.03	-26.0
8040.00	H	-	-	-57.75	9.67	-48.08	-23.1
10720.00	H	-	-	-54.72	9.69	-45.02	-20.0

Table 7-142. Radiated Spurious Data (Band 41 – High Channel)

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7.9.5 ANT 2a (Port-D) Radiated Spurious Emissions Measurements Band 66/4

OPERATING FREQUENCY:	1720.00	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	20.0	MHz
DISTANCE:	3	meters
LIMIT:	-13	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3440.00	H	-	-	-69.50	6.90	-62.59	-49.6
5160.00	H	-	-	-70.13	9.10	-61.03	-48.0
6880.00	H	-	-	-68.13	9.83	-58.30	-45.3

Table 7-143. Radiated Spurious Data (Band 66/4 – Low Channel)

OPERATING FREQUENCY:	1745.00	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	20.0	MHz
DISTANCE:	3	meters
LIMIT:	-13	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3490.00	H	-	-	-69.44	6.99	-62.45	-49.4
5235.00	H	-	-	-70.42	9.22	-61.20	-48.2
6980.00	H	-	-	-68.52	9.81	-58.71	-45.7

Table 7-144. Radiated Spurious Data (Band 66/4 – Mid Channel)

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OPERATING FREQUENCY:	1770.00	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	20.0	MHz
DISTANCE:	3	meters
LIMIT:	-13	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3540.00	H	-	-	-69.07	6.95	-62.12	-49.1
5310.00	H	-	-	-70.61	9.22	-61.39	-48.4
7080.00	H	-	-	-67.76	9.83	-57.93	-44.9

Table 7-145. Radiated Spurious Data (Band 66/4 – High Channel)

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Band 25/2

OPERATING FREQUENCY:	1860.00	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	20.0	MHz
DISTANCE:	3	meters
LIMIT:	-13	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3720.00	H	-	-	-69.49	7.34	-62.15	-49.1
5580.00	H	-	-	-70.05	9.35	-60.69	-47.7
7440.00	H	-	-	-66.67	9.42	-57.25	-44.3

Table 7-146. Radiated Spurious Data (Band 25/2 – Low Channel)

OPERATING FREQUENCY:	1882.50	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	20.0	MHz
DISTANCE:	3	meters
LIMIT:	-13	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3765.00	H	-	-	-69.37	7.40	-61.96	-49.0
5647.50	H	-	-	-70.03	9.46	-60.57	-47.6
7530.00	H	-	-	-66.95	9.45	-57.51	-44.5

Table 7-147. Radiated Spurious Data (Band 25/2 – Mid Channel)

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OPERATING FREQUENCY:	1905.00	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	20.0	MHz
DISTANCE:	3	meters
LIMIT:	-13	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3810.00	H	-	-	-70.16	7.52	-62.64	-49.6
5715.00	H	-	-	-70.12	9.45	-60.67	-47.7
7620.00	H	-	-	-67.15	9.51	-57.63	-44.6

Table 7-148. Radiated Spurious Data (Band 25/2 – High Channel)

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Band 30

OPERATING FREQUENCY:	2307.50	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	5.0	MHz
DISTANCE:	3	meters
LIMIT:	-40	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
4615.00	H	-	-	-70.30	8.40	-61.90	-21.9
6922.50	H	-	-	-69.16	9.84	-59.32	-19.3
9230.00	H	-	-	-66.49	9.62	-56.87	-16.9

Table 7-149. Radiated Spurious Data (Band 30 – Low Channel)

OPERATING FREQUENCY:	2310.00	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	10.0	MHz
DISTANCE:	3	meters
LIMIT:	-40	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
4620.00	H	-	-	-70.57	8.40	-62.17	-22.2
6930.00	H	-	-	-69.13	9.85	-59.28	-19.3
9240.00	H	-	-	-66.11	9.62	-56.49	-16.5

Table 7-150. Radiated Spurious Data (Band 30 – Mid Channel)

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OPERATING FREQUENCY:	2312.50	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	5.0	MHz
DISTANCE:	3	meters
LIMIT:	-40	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
4625.00	H	-	-	-70.66	8.40	-62.25	-22.3
6937.50	H	-	-	-69.42	9.86	-59.55	-19.6
9250.00	H	-	-	-66.28	9.62	-56.65	-16.7

Table 7-151. Radiated Spurious Data (Band 30 – High Channel)

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Band 7

OPERATING FREQUENCY:	2510.00	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	20.0	MHz
DISTANCE:	3	meters
LIMIT:	-25	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5020.00	H	133	334	-68.30	8.73	-59.57	-34.6
7530.00	H	-	-	-66.98	9.45	-57.54	-32.5
10040.00	H	-	-	-64.65	9.64	-55.01	-30.0
12550.00	H	-	-	-61.08	9.53	-51.54	-26.5

Table 7-152. Radiated Spurious Data (Band 7 – Low Channel)

OPERATING FREQUENCY:	2535.00	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	20.0	MHz
DISTANCE:	3	meters
LIMIT:	-25	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5070.00	H	142	336	-69.17	8.85	-60.31	-35.3
7605.00	H	-	-	-66.85	9.50	-57.35	-32.3
10140.00	H	-	-	-64.88	9.72	-55.17	-30.2
12675.00	H	-	-	-60.37	9.40	-50.97	-26.0

Table 7-153. Radiated Spurious Data (Band 7 – Mid Channel)

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OPERATING FREQUENCY:	2560.00	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	20.0	MHz
DISTANCE:	3	meters
LIMIT:	-25	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5120.00	H	131	333	-69.25	8.97	-60.28	-35.3
7680.00	H	-	-	-67.76	9.55	-58.21	-33.2
10240.00	H	-	-	-64.84	9.70	-55.14	-30.1
12800.00	H	-	-	-60.28	9.33	-50.95	-25.9

Table 7-154. Radiated Spurious Data (Band 7 – High Channel)

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Band 41

OPERATING FREQUENCY:	2506.00	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	20.0	MHz
DISTANCE:	3	meters
LIMIT:	-25	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5012.00	H	146	299	-60.45	8.71	-51.74	-26.7
7518.00	H	-	-	-58.02	9.46	-48.56	-23.6
10024.00	H	-	-	-55.48	9.64	-45.84	-20.8
12530.00	H	-	-	-52.15	9.53	-42.62	-17.6

Table 7-155. Radiated Spurious Data (Band 41 – Low Channel)

OPERATING FREQUENCY:	2593.00	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	20.0	MHz
DISTANCE:	3	meters
LIMIT:	-25	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5186.00	H	105	18	-61.70	9.18	-52.52	-27.5
7779.00	H	-	-	-57.65	9.59	-48.05	-23.1
10372.00	H	-	-	-55.04	9.72	-45.32	-20.3
12965.00	H	-	-	-52.29	9.34	-42.95	-17.9

Table 7-156. Radiated Spurious Data (Band 41 – Mid Channel)

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OPERATING FREQUENCY:	2680.00	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	20.0	MHz
DISTANCE:	3	meters
LIMIT:	-25	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5360.00	H	-	-	-60.92	9.19	-51.73	-26.7
8040.00	H	-	-	-57.68	9.67	-48.01	-23.0
10720.00	H	-	-	-55.02	9.69	-45.32	-20.3

Table 7-157. Radiated Spurious Data (Band 41 – High Channel)

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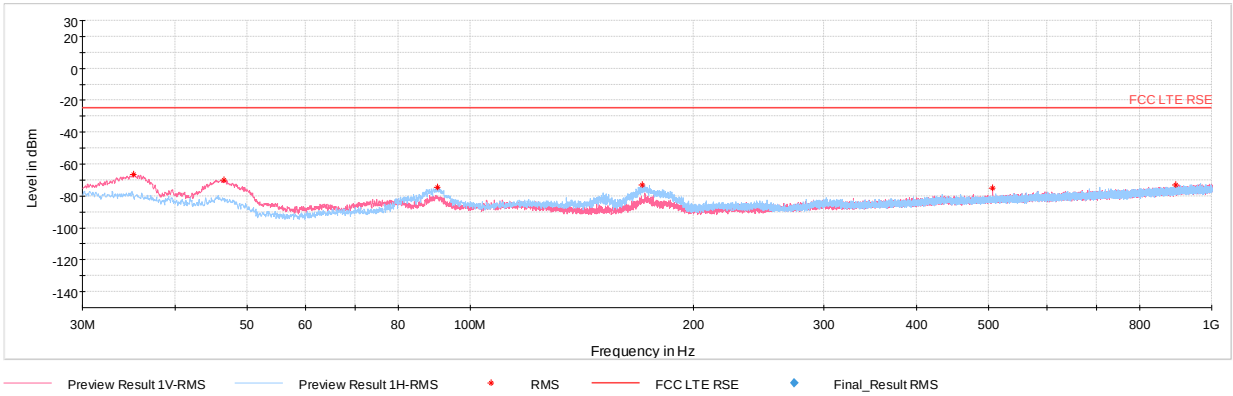
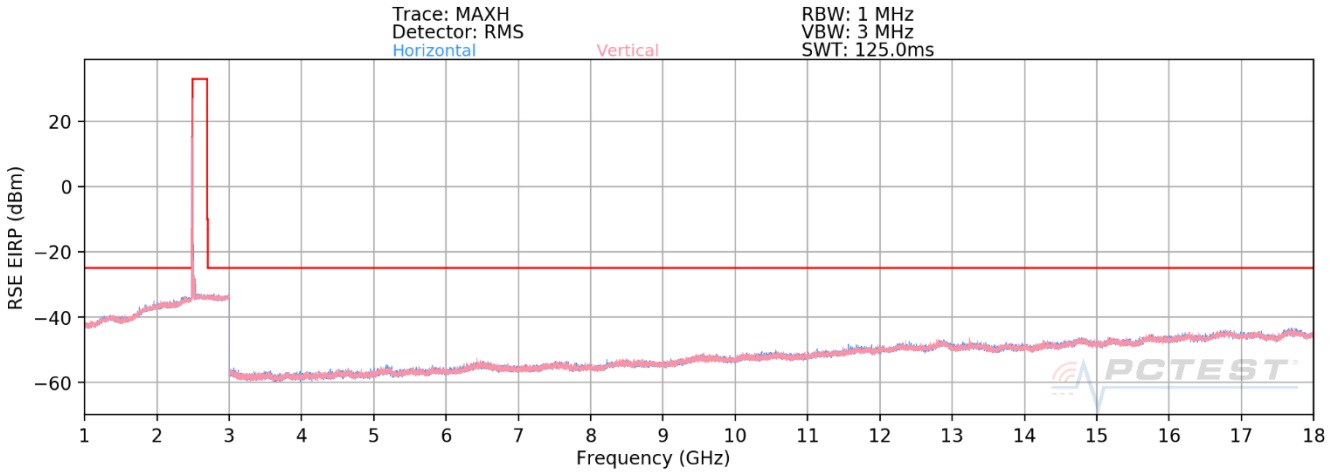
Simultaneous Tx Radiated Spurious Emissions Measurements

Description	Bluetooth	LTE
Antenna	4a	4a
Channel	78	39750
Operating Frequency (MHz)	2480	2506
Mode/Modulation	GFSK ePA	QPSK/1RB/20MHz

Table 7-158. Worst Case Configuration



Plot 7-436. Radiated Spurious Plot Below 1GHz



Plot 7-437. Radiated Spurious Plot Above 1GHz

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5012.00	H	-	-	-61.99	9.99	-52.00	-25.00	-27.0
7518.00	H	-	-	-62.22	11.99	-50.23	-25.00	-25.2
10024.00	H	-	-	-61.37	13.11	-48.26	-25.00	-23.3

Table 7-159. Radiated Spurious Data Above 1GHz

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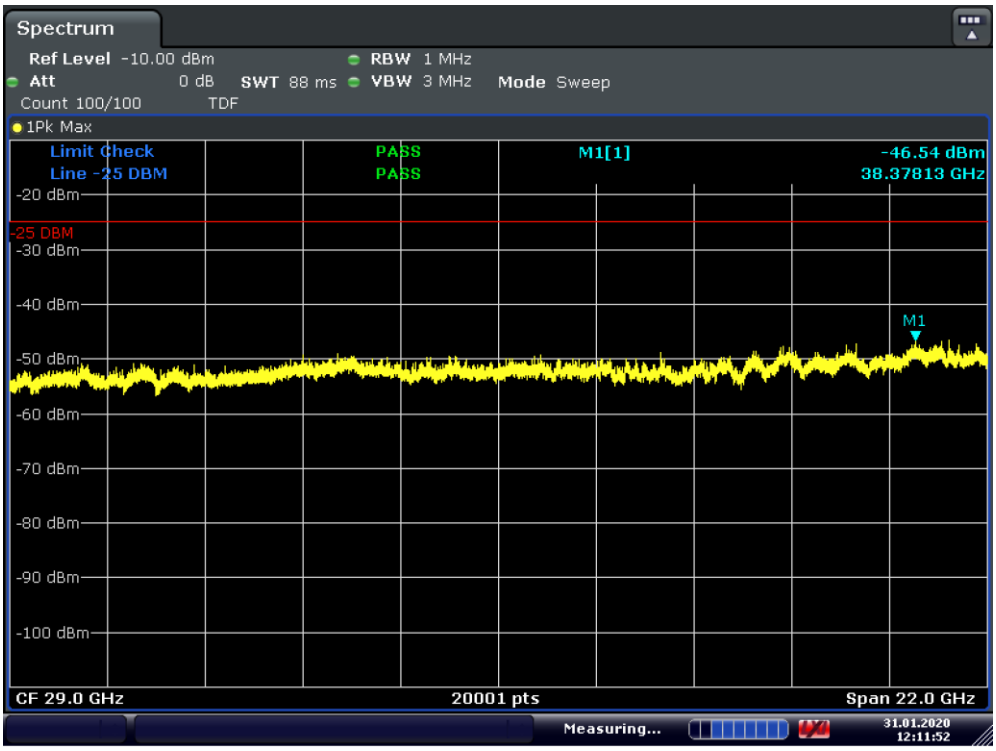
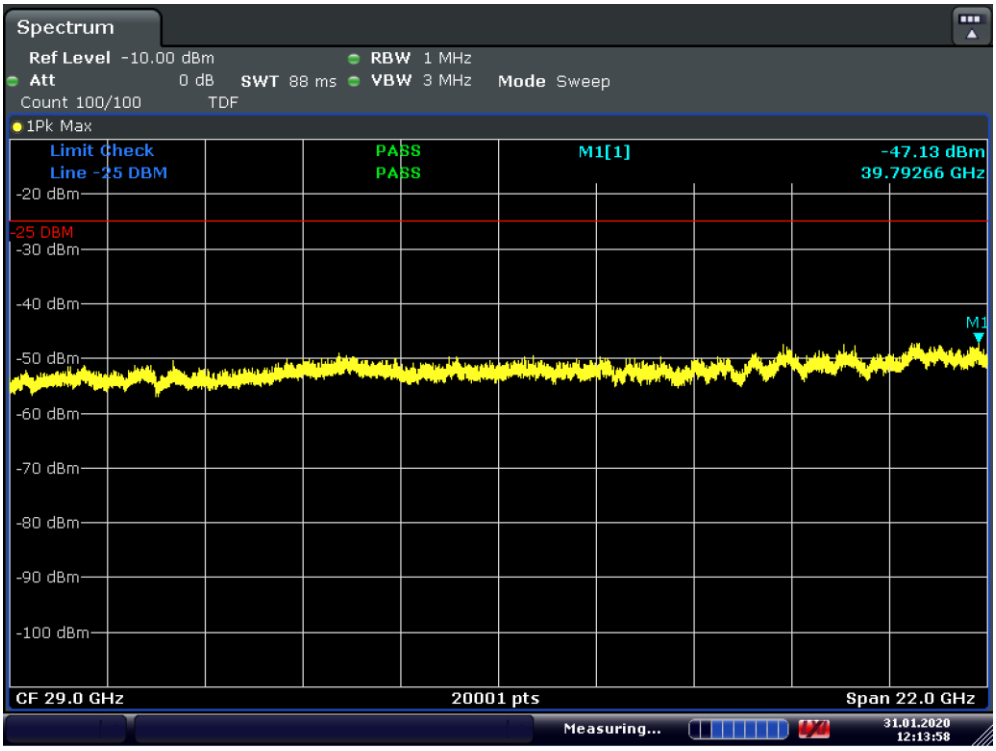


Plot 7-438. Radiated Spurious Plot Above 18GHz (Ant. Pol H)



Plot 7-439. Radiated Spurious Data Above 18GHz (Ant. Pol V)

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7.10 Uplink Carrier Aggregation Radiated Measurements

§2.1053, §27.53(m)

Test Overview

Radiated spurious emissions measurements are performed using the substitution method described in ANSI/TIA-603-D-2010 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using vertically and horizontally polarized tuned dipole antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed as peak measurements while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies.

Test Procedures Used

KDB 971168 D01 v02r02 – Section 5.8

ANSI/TIA-603-D-2010 – Section 2.2.12

Test Settings

1. RBW = 100kHz for emissions below 1GHz and 1MHz for emissions above 1GHz
2. VBW ≥ 3 x RBW
3. No. of sweep points ≥ 2 x span / RBW
4. Detector = RMS
5. Trace mode = trace average for continuous emissions, max hold for pulse emissions
6. The trace was allowed to stabilize

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Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

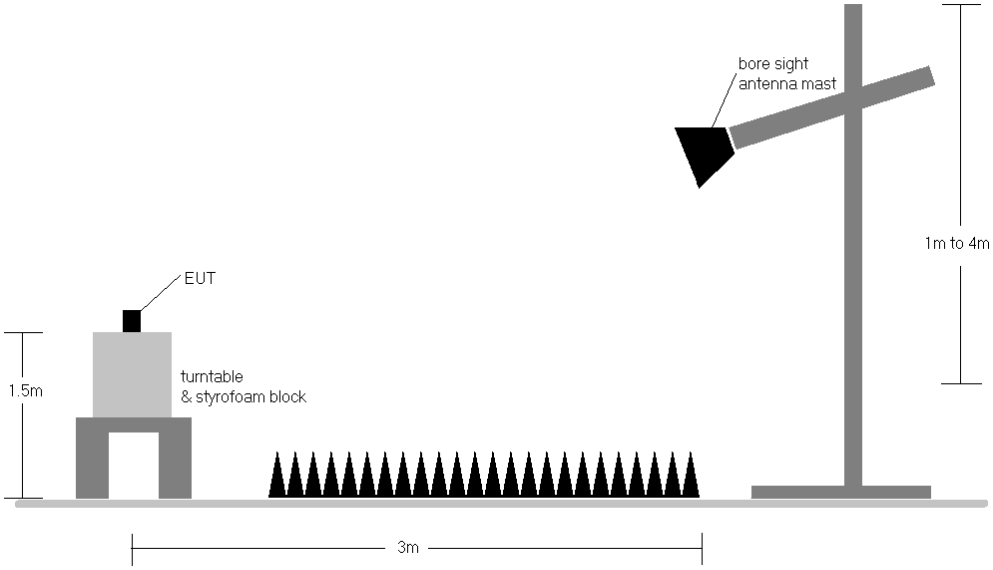

Figure 7-10. Test Instrument & Measurement Setup

Test Notes

1) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.

2) This unit was tested with its standard battery.

3) Radiated spurious emissions measurements were evaluated for the two contiguous channels using various combinations of RB size, RB offset, modulation, and channel bandwidth. The worst case (highest) emissions were found while operating with QPSK modulation with both carriers set to transmit using 1RB.

4) The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.

5) Emissions below 18GHz were measured at a 3 meter test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.

6) No significant emissions were found as a result of two uplink carriers operating contiguously.

7) All ports were tested and only the worst case data were reported.

8) Refer to Table 2-3 Section 2.3 of this test report for correlation between Antennas and Ports.

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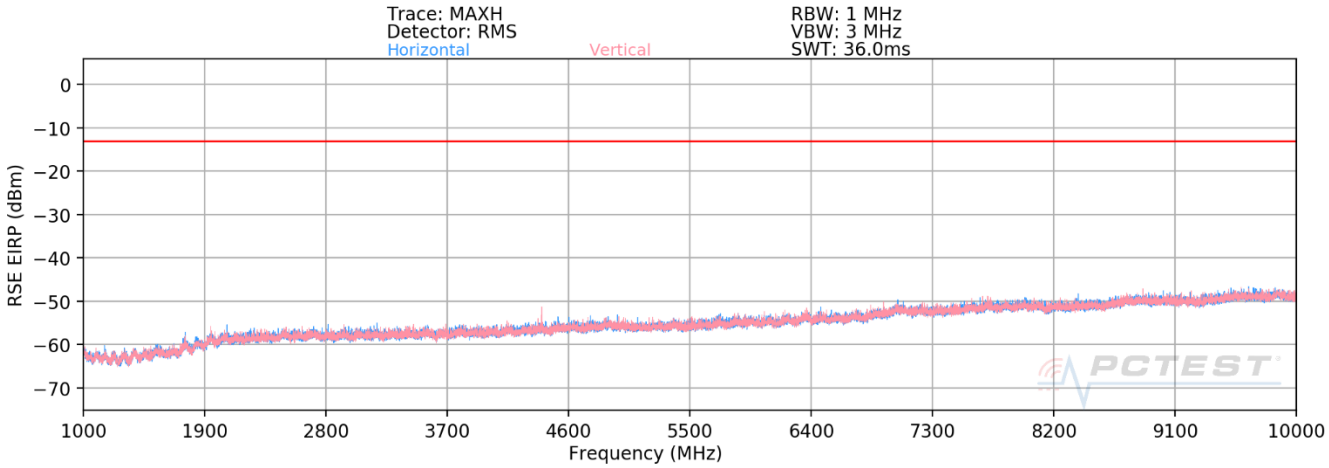
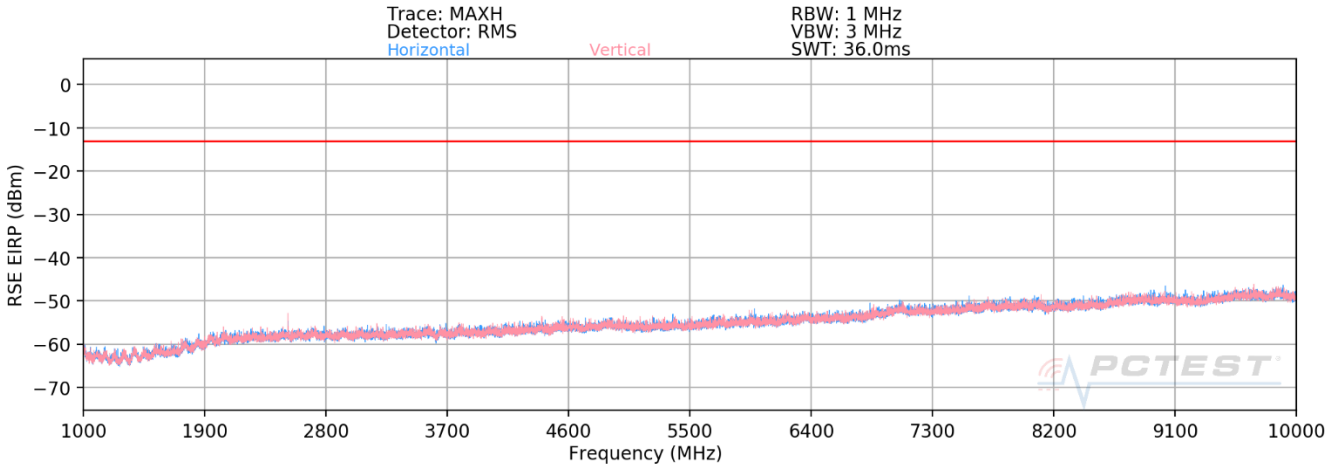
7.10.1 ANT 3 (Port-A) Radiated Spurious Emissions Measurements

Band 5



Plot 7-440. Radiated Spurious Plot (ULCA B5 PCC: RB 1 Offset 49, SCC: RB 1 Offset 0 – Low Channel)



Plot 7-441. Radiated Spurious Plot (ULCA B5 PCC: RB 1 Offset 0, SCC: RB 1 Offset 49 – High Channel)

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OPERATING FREQUENCY (PCC):	829.00	MHz
OPERATING FREQUENCY (SCC):	838.90	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	10.0	MHz
DISTANCE:	3	meters
LIMIT:	-25	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1658.00	H	-	-	-67.31	8.38	-58.93	-33.9
2487.00	H	-	-	-64.36	9.32	-55.04	-30.0
3316.00	H	-	-	-60.46	9.41	-51.04	-26.0
4145.00	H	113	45	-57.34	9.24	-48.09	-23.1

Table 7-160. Radiated Spurious Data (ULCA B5 PCC: RB 1 Offset 49, SCC: RB 1 Offset 0 – Low Channel)

OPERATING FREQUENCY (PCC):	844.00	MHz
OPERATING FREQUENCY (SCC):	834.10	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	10.0	MHz
DISTANCE:	3	meters
LIMIT:	-25	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1688.00	H	-	-	-71.00	4.15	-66.85	-41.8
2532.00	H	102	37	-66.40	4.11	-62.29	-37.3
3376.00	H	-	-	-69.43	6.49	-62.95	-37.9
4220.00	H	-	-	-70.20	7.89	-62.30	-37.3

Table 7-161. Radiated Spurious Data (ULCA B5 PCC: RB 1 Offset 0, SCC: RB 1 Offset 49 – High Channel)

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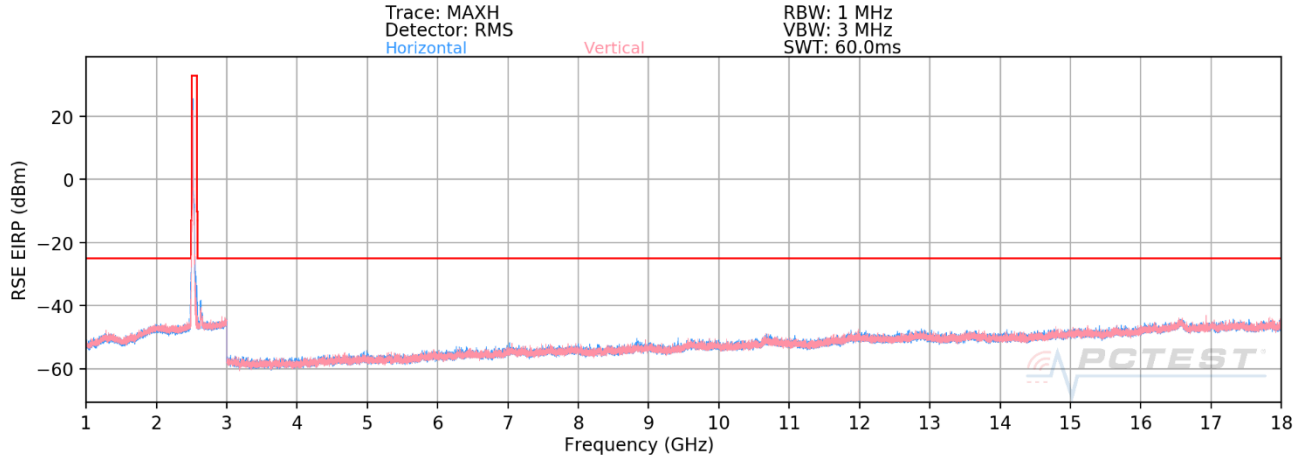
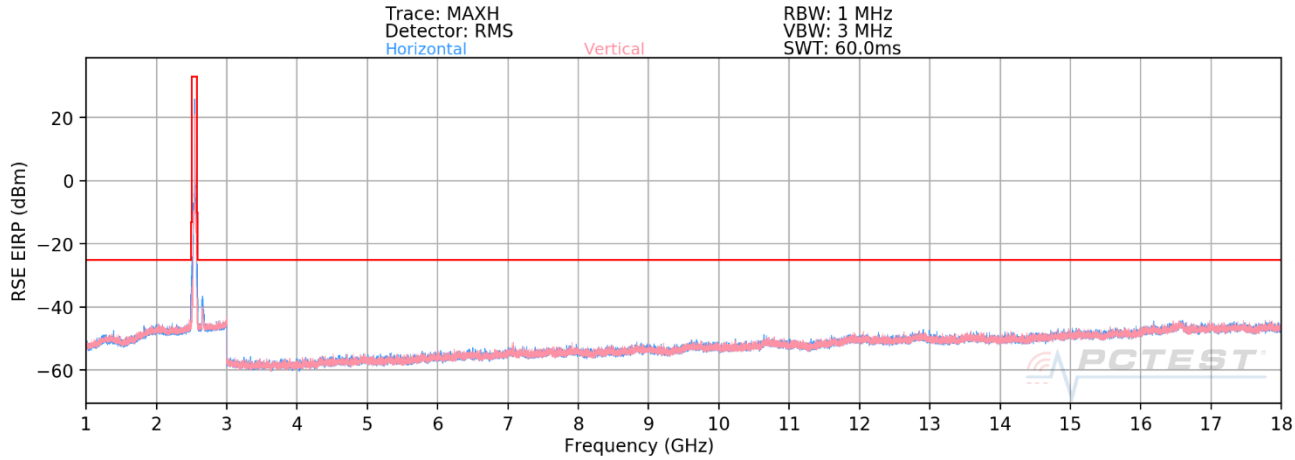
7.10.2 ANT 4b (Port-A) Radiated Spurious Emissions Measurements

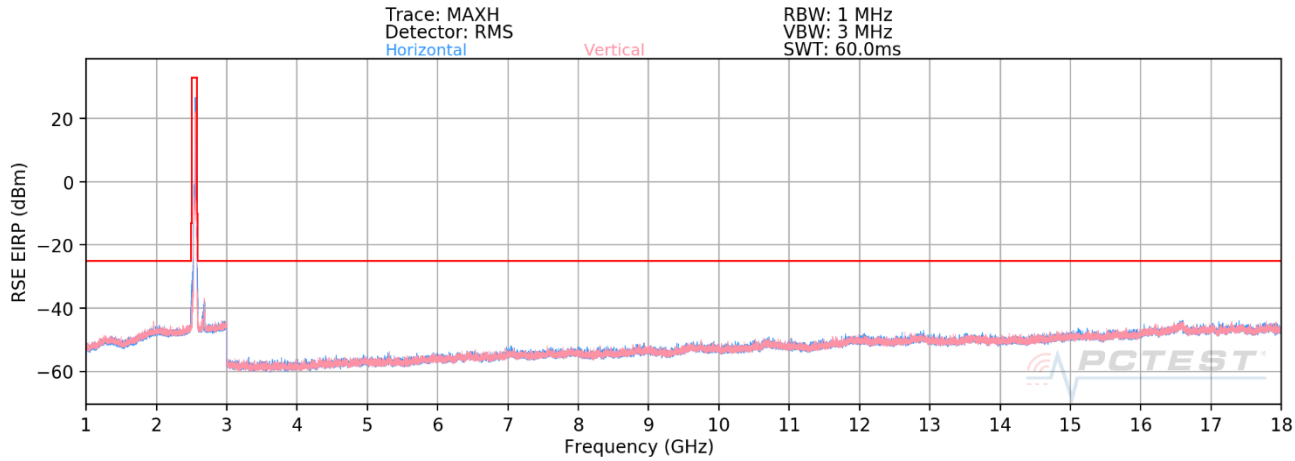
Band 7



Plot 7-442. Radiated Spurious Plot (ULCA B7 PCC: RB 1 Offset 99, SCC: RB 1 Offset 0 – Low Channel)



Plot 7-443. Radiated Spurious Plot (ULCA B7 PCC: RB 1 Offset 99, SCC: RB 1 Offset 0 – Mid Channel)



Plot 7-444. Radiated Spurious Plot (ULCA B7 PCC: RB 1 Offset 0, SCC: RB 1 Offset 99 – High Channel)

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OPERATING FREQUENCY (PCC):	2510.00	MHz
OPERATING FREQUENCY (SCC):	2529.80	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	20.0	MHz
DISTANCE:	3	meters
LIMIT:	-25	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5020.00	H	-	-	-72.44	10.00	-62.44	-37.4
7530.00	H	-	-	-72.40	11.99	-60.41	-35.4
10040.00	H	-	-	-72.15	13.11	-59.03	-34.0
12550.00	H	-	-	-69.41	13.13	-56.27	-31.3

Table 7-162. Radiated Spurious Data (ULCA B7 PCC: RB 1 Offset 99, SCC: RB 1 Offset 0 – Low Channel)

OPERATING FREQUENCY (PCC):	2535.00	MHz
OPERATING FREQUENCY (SCC):	2554.80	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	20.0	MHz
DISTANCE:	3	meters
LIMIT:	-25	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5070.00	H	-	-	-72.58	10.07	-62.52	-37.5
7605.00	H	-	-	-71.87	12.15	-59.72	-34.7
10140.00	H	-	-	-72.13	13.10	-59.03	-34.0
12675.00	H	-	-	-69.15	13.15	-56.00	-31.0

Table 7-163. Radiated Spurious Data (ULCA B7 PCC: RB 1 Offset 99, SCC: RB 1 Offset 0 – Mid Channel)

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OPERATING FREQUENCY (PCC):	2560.00	MHz
OPERATING FREQUENCY (SCC):	2540.20	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	20.0	MHz
DISTANCE:	3	meters
LIMIT:	-25	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5120.00	H	-	-	-72.88	10.10	-62.78	-37.8
7680.00	H	-	-	-73.04	12.15	-60.88	-35.9
10240.00	H	-	-	-71.94	13.10	-58.84	-33.8
12800.00	H	-	-	-68.97	13.17	-55.80	-30.8

Table 7-164. Radiated Spurious Data (ULCA B7 PCC: RB 1 Offset 0, SCC: RB 1 Offset 99 – High Channel)

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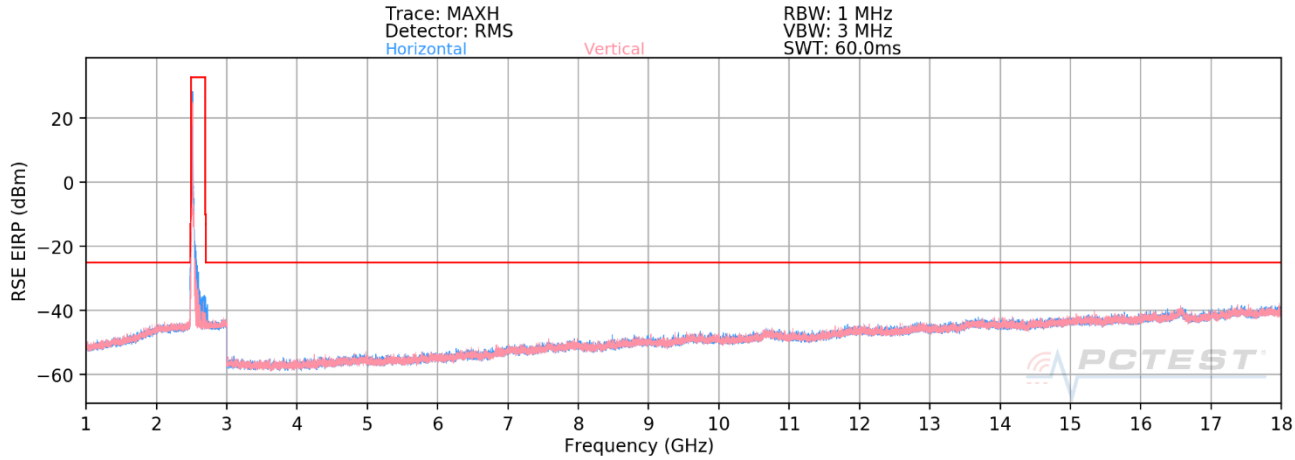
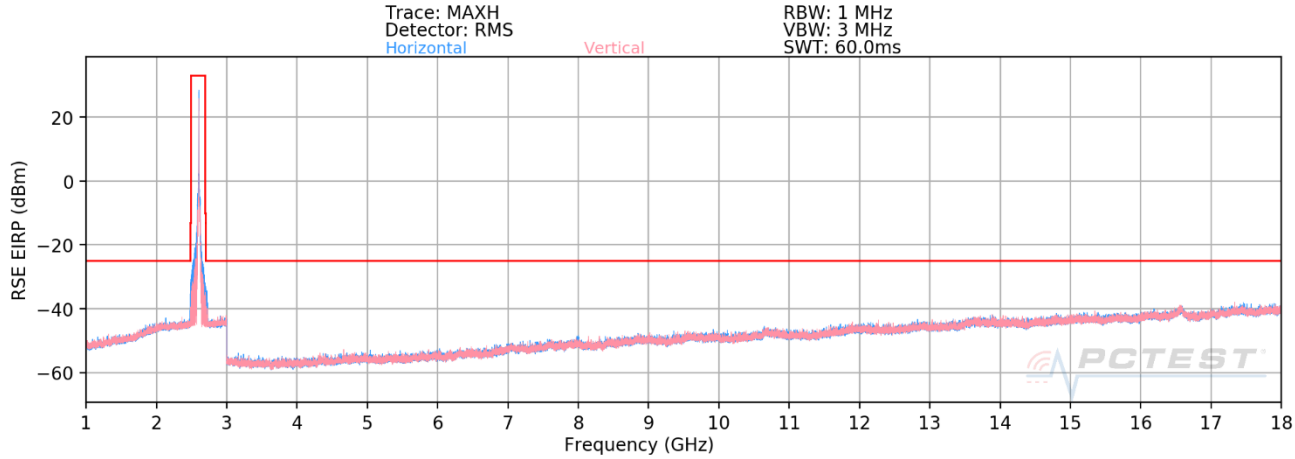
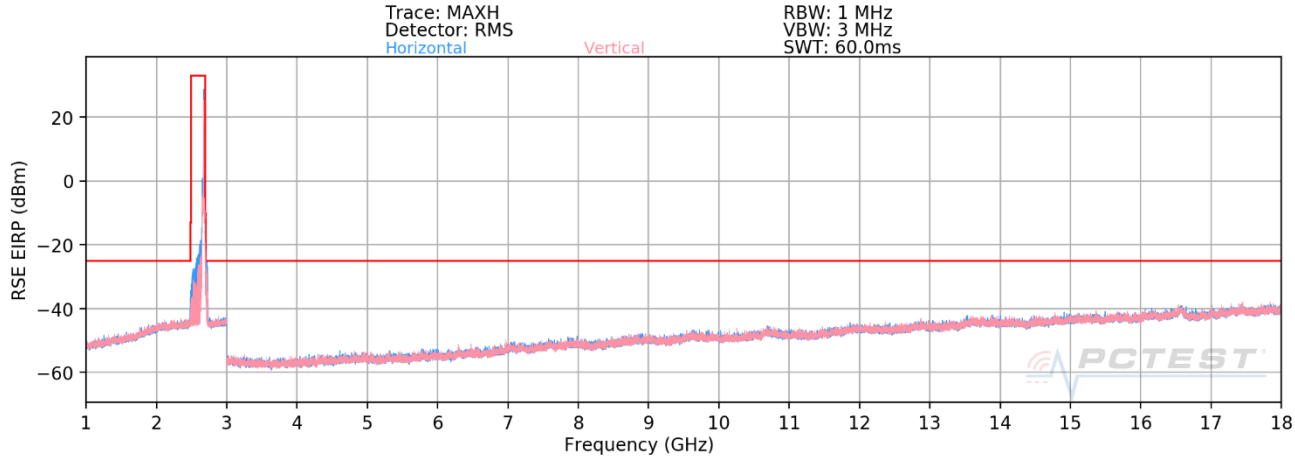
Band 41



Plot 7-445. Radiated Spurious Plot (ULCA B41 PCC: RB 1 Offset 99, SCC: RB 1 Offset 0 – Low Channel)



Plot 7-446. Radiated Spurious Plot (ULCA B41 PCC: RB 1 Offset 99, SCC: RB 1 Offset 0 – Mid Channel)



Plot 7-447. Radiated Spurious Plot (ULCA B41 PCC: RB 1 Offset 0, SCC: RB 1 Offset 99 – High Channel)

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OPERATING FREQUENCY (PCC):	2506.00	MHz
OPERATING FREQUENCY (SCC):	2525.80	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	20.0	MHz
DISTANCE:	3	meters
LIMIT:	-25	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5012.00	H	-	-	-59.94	8.64	-51.31	-26.3
7518.00	H	-	-	-57.23	9.26	-47.97	-23.0
10024.00	H	-	-	-55.26	9.41	-45.84	-20.8
12530.00	H	-	-	-52.85	9.19	-43.66	-18.7

Table 7-165. Radiated Spurious Data (ULCA B41 PCC: RB 1 Offset 99, SCC: RB 1 Offset 0 – Low Channel)

OPERATING FREQUENCY (PCC):	2593.00	MHz
OPERATING FREQUENCY (SCC):	2612.80	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	20.0	MHz
DISTANCE:	3	meters
LIMIT:	-25	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5186.00	H	-	-	-61.13	9.01	-52.12	-27.1
7779.00	H	-	-	-57.75	9.24	-48.51	-23.5
10372.00	H	-	-	-54.90	9.37	-45.53	-20.5
12965.00	H	-	-	-51.90	9.06	-42.84	-17.8

Table 7-166. Radiated Spurious Data (ULCA B41 PCC: RB 1 Offset 99, SCC: RB 1 Offset 0 – Mid Channel)

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OPERATING FREQUENCY (PCC):	2680.00	MHz
OPERATING FREQUENCY (SCC):	2660.20	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	20.0	MHz
DISTANCE:	3	meters
LIMIT:	-25	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5360.00	H	-	-	-60.21	8.99	-51.22	-26.2
8040.00	H	-	-	-57.28	9.32	-47.96	-23.0
10720.00	H	-	-	-54.35	9.30	-45.05	-20.1
13400.00	H	-	-	-52.00	8.86	-43.14	-18.1

Table 7-167. Radiated Spurious Data (ULCA B41 PCC: RB 1 Offset 0, SCC: RB 1 Offset 99 – High Channel)

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7.10.3 ANT 1 (Port-B) Radiated Spurious Emissions Measurements

Band 5

OPERATING FREQUENCY (PCC):	829.00	MHz
OPERATING FREQUENCY (SCC):	838.90	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	10.0	MHz
DISTANCE:	3	meters
LIMIT:	-25	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1658.00	H	-	-	-73.61	5.50	-68.11	-43.1
2487.00	H	-	-	-70.78	5.92	-64.86	-39.9
3316.00	H	-	-	-72.29	7.87	-64.42	-39.4
4145.00	H	-	-	-72.60	9.02	-63.58	-38.6

Table 7-168. Radiated Spurious Data (ULCA B5 PCC: RB 1 Offset 99, SCC: RB 1 Offset 0 – Low Channel)

OPERATING FREQUENCY (PCC):	844.00	MHz
OPERATING FREQUENCY (SCC):	834.10	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	10.0	MHz
DISTANCE:	3	meters
LIMIT:	-25	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1688.00	H	-	-	-74.09	5.65	-68.44	-43.4
2532.00	H	-	-	-70.89	5.93	-64.96	-40.0
3376.00	H	-	-	-72.40	8.04	-64.37	-39.4
4220.00	H	-	-	-72.81	9.19	-63.62	-38.6

Table 7-169. Radiated Spurious Data (ULCA B5 PCC: RB 1 Offset 0, SCC: RB 1 Offset 99 – High Channel)

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7.10.4 ANT 2b (Port-B) Radiated Spurious Emissions Measurements

Band 7

OPERATING FREQUENCY (PCC):	2510.00	MHz
OPERATING FREQUENCY (SCC):	2529.80	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	20.0	MHz
DISTANCE:	3	meters
LIMIT:	-25	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5020.00	H	-	-	-72.26	10.00	-62.26	-37.3
7530.00	H	-	-	-72.64	11.99	-60.65	-35.7
10040.00	H	-	-	-72.26	13.11	-59.14	-34.1
12550.00	H	-	-	-69.36	13.13	-56.22	-31.2

Table 7-170. Radiated Spurious Data (ULCA B7 PCC: RB 1 Offset 99, SCC: RB 1 Offset 0 – Low Channel)

OPERATING FREQUENCY (PCC):	2535.00	MHz
OPERATING FREQUENCY (SCC):	2554.80	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	20.0	MHz
DISTANCE:	3	meters
LIMIT:	-25	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5070.00	H	-	-	-72.58	10.07	-62.52	-37.5
7605.00	H	-	-	-72.08	12.15	-59.93	-34.9
10140.00	H	-	-	-72.04	13.10	-58.94	-33.9
12675.00	H	-	-	-69.31	13.15	-56.16	-31.2

Table 7-171. Radiated Spurious Data (ULCA B7 PCC: RB 1 Offset 99, SCC: RB 1 Offset 0 – Mid Channel)

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OPERATING FREQUENCY (PCC):	2560.00	MHz
OPERATING FREQUENCY (SCC):	2540.20	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	20.0	MHz
DISTANCE:	3	meters
LIMIT:	-25	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5120.00	H	-	-	-72.70	10.10	-62.60	-37.6
7680.00	H	-	-	-73.02	12.15	-60.86	-35.9
10240.00	H	-	-	-71.97	13.10	-58.87	-33.9
12800.00	H	-	-	-68.91	13.17	-55.74	-30.7

Table 7-172. Radiated Spurious Data (ULCA B7 PCC: RB 1 Offset 0, SCC: RB 1 Offset 99 – High Channel)

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Band 41

OPERATING FREQUENCY (PCC):	2506.00	MHz
OPERATING FREQUENCY (SCC):	2525.80	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	20.0	MHz
DISTANCE:	3	meters
LIMIT:	-25	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5012.00	H	-	-	-60.05	8.64	-51.42	-26.4
7518.00	H	-	-	-57.96	9.26	-48.70	-23.7
10024.00	H	-	-	-56.54	9.41	-47.12	-22.1
12530.00	H	-	-	-52.40	9.19	-43.21	-18.2

Table 7-173. Radiated Spurious Data (ULCA B41 PCC: RB 1 Offset 99, SCC: RB 1 Offset 0 – Low Channel)

OPERATING FREQUENCY (PCC):	2593.00	MHz
OPERATING FREQUENCY (SCC):	2612.80	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	20.0	MHz
DISTANCE:	3	meters
LIMIT:	-25	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5186.00	H	-	-	-60.82	9.01	-51.81	-26.8
7779.00	H	-	-	-57.46	9.24	-48.22	-23.2
10372.00	H	-	-	-54.43	9.37	-45.06	-20.1
12965.00	H	-	-	-51.67	9.06	-42.61	-17.6

Table 7-174. Radiated Spurious Data (ULCA B41 PCC: RB 1 Offset 99, SCC: RB 1 Offset 0 – Mid Channel)

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OPERATING FREQUENCY (PCC):	2680.00	MHz
OPERATING FREQUENCY (SCC):	2660.20	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	20.0	MHz
DISTANCE:	3	meters
LIMIT:	-25	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5360.00	H	-	-	-59.83	8.99	-50.84	-25.8
8040.00	H	-	-	-57.17	9.32	-47.85	-22.9
10720.00	H	-	-	-53.94	9.30	-44.64	-19.6

Table 7-175. Radiated Spurious Data (ULCA B41 PCC: RB 1 Offset 0, SCC: RB 1 Offset 99 – High Channel)

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7.10.5 ANT 4a (Port-C) Radiated Spurious Emissions Measurements

Band 7

OPERATING FREQUENCY (PCC):	2510.00	MHz
OPERATING FREQUENCY (SCC):	2529.80	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	20.0	MHz
DISTANCE:	3	meters
LIMIT:	-25	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5020.00	H	-	-	-72.08	10.00	-62.08	-37.1
7530.00	H	-	-	-72.22	11.99	-60.23	-35.2
10040.00	H	-	-	-71.67	13.11	-58.55	-33.6
12550.00	H	-	-	-69.32	13.13	-56.18	-31.2

Table 7-176. Radiated Spurious Data (ULCA B7 PCC: RB 1 Offset 99, SCC: RB 1 Offset 0 – Low Channel)

OPERATING FREQUENCY (PCC):	2535.00	MHz
OPERATING FREQUENCY (SCC):	2554.80	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	20.0	MHz
DISTANCE:	3	meters
LIMIT:	-25	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5070.00	H	-	-	-72.41	10.07	-62.35	-37.3
7605.00	H	-	-	-72.00	12.15	-59.85	-34.8
10140.00	H	-	-	-71.77	13.10	-58.67	-33.7
12675.00	H	-	-	-69.07	13.15	-55.92	-30.9

Table 7-177. Radiated Spurious Data (ULCA B7 PCC: RB 1 Offset 99, SCC: RB 1 Offset 0 – Mid Channel)

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OPERATING FREQUENCY (PCC):	2560.00	MHz
OPERATING FREQUENCY (SCC):	2540.20	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	20.0	MHz
DISTANCE:	3	meters
LIMIT:	-25	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5120.00	H	-	-	-72.65	10.10	-62.55	-37.5
7680.00	H	-	-	-73.08	12.15	-60.92	-35.9
10240.00	H	-	-	-71.10	13.10	-58.00	-33.0
12800.00	H	-	-	-69.62	13.17	-56.45	-31.4

Table 7-178. Radiated Spurious Data (ULCA B7 PCC: RB 1 Offset 0, SCC: RB 1 Offset 99 – High Channel)

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Band 41

OPERATING FREQUENCY (PCC):	2506.00	MHz
OPERATING FREQUENCY (SCC):	2525.80	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	20.0	MHz
DISTANCE:	3	meters
LIMIT:	-25	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5012.00	H	-	-	-60.29	8.64	-51.66	-26.7
7518.00	H	-	-	-57.96	9.26	-48.70	-23.7
10024.00	H	-	-	-56.10	9.41	-46.68	-21.7
12530.00	H	-	-	-52.74	9.19	-43.55	-18.5

Table 7-179. Radiated Spurious Data (ULCA B41 PCC: RB 1 Offset 99, SCC: RB 1 Offset 0 – Low Channel)

OPERATING FREQUENCY (PCC):	2593.00	MHz
OPERATING FREQUENCY (SCC):	2612.80	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	20.0	MHz
DISTANCE:	3	meters
LIMIT:	-25	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5186.00	H	-	-	-60.78	9.01	-51.77	-26.8
7779.00	H	-	-	-57.36	9.24	-48.12	-23.1
10372.00	H	-	-	-55.04	9.37	-45.67	-20.7
12965.00	H	-	-	-52.35	9.06	-43.29	-18.3

Table 7-180. Radiated Spurious Data (ULCA B41 PCC: RB 1 Offset 99, SCC: RB 1 Offset 0 – Mid Channel)

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OPERATING FREQUENCY (PCC):	2680.00	MHz
OPERATING FREQUENCY (SCC):	2660.20	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	20.0	MHz
DISTANCE:	3	meters
LIMIT:	-25	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5360.00	H	-	-	-60.43	8.99	-51.44	-26.4
8040.00	H	-	-	-57.72	9.32	-48.40	-23.4
10720.00	H	-	-	-53.89	9.30	-44.59	-19.6
13400.00	H	-	-	-51.50	8.86	-42.64	-17.6

Table 7-181. Radiated Spurious Data (ULCA B41 PCC: RB 1 Offset 0, SCC: RB 1 Offset 99 – High Channel)

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7.10.6 ANT 2a (Port-D) Radiated Spurious Emissions Measurements

Band 7

OPERATING FREQUENCY (PCC):	2510.00	MHz
OPERATING FREQUENCY (SCC):	2529.80	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	20.0	MHz
DISTANCE:	3	meters
LIMIT:	-25	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5020.00	H	-	-	-72.44	10.00	-62.44	-37.4
7530.00	H	-	-	-72.12	11.99	-60.13	-35.1
10040.00	H	-	-	-71.77	13.11	-58.65	-33.7

Table 7-182. Radiated Spurious Data (ULCA B7 PCC: RB 1 Offset 99, SCC: RB 1 Offset 0 – Low Channel)

OPERATING FREQUENCY (PCC):	2535.00	MHz
OPERATING FREQUENCY (SCC):	2554.80	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	20.0	MHz
DISTANCE:	3	meters
LIMIT:	-25	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5070.00	H	-	-	-72.58	10.07	-62.52	-37.5
7605.00	H	-	-	-72.04	12.15	-59.89	-34.9
10140.00	H	-	-	-71.93	13.10	-58.83	-33.8

Table 7-183. Radiated Spurious Data (ULCA B7 PCC: RB 1 Offset 99, SCC: RB 1 Offset 0 – Mid Channel)

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OPERATING FREQUENCY (PCC):	2560.00	MHz
OPERATING FREQUENCY (SCC):	2540.20	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	20.0	MHz
DISTANCE:	3	meters
LIMIT:	-25	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5120.00	H	-	-	-72.94	10.10	-62.84	-37.8
7680.00	H	-	-	-73.05	12.15	-60.89	-35.9
10240.00	H	-	-	-71.33	13.10	-58.23	-33.2

Table 7-184. Radiated Spurious Data (ULCA B7 PCC: RB 1 Offset 0, SCC: RB 1 Offset 99 – High Channel)

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Band 41

OPERATING FREQUENCY (PCC):	2506.00	MHz
OPERATING FREQUENCY (SCC):	2525.80	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	20.0	MHz
DISTANCE:	3	meters
LIMIT:	-25	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5012.00	H	-	-	-60.04	8.64	-51.41	-26.4
7518.00	H	-	-	-57.37	9.26	-48.11	-23.1
10024.00	H	-	-	-55.32	9.41	-45.90	-20.9
12530.00	H	-	-	-52.04	9.19	-42.85	-17.8

Table 7-185. Radiated Spurious Data (ULCA B41 PCC: RB 1 Offset 99, SCC: RB 1 Offset 0 – Low Channel)

OPERATING FREQUENCY (PCC):	2593.00	MHz
OPERATING FREQUENCY (SCC):	2612.80	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	20.0	MHz
DISTANCE:	3	meters
LIMIT:	-25	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5186.00	H	-	-	-61.14	9.01	-52.13	-27.1
7779.00	H	-	-	-57.43	9.24	-48.19	-23.2
10372.00	H	-	-	-55.14	9.37	-45.77	-20.8

Table 7-186. Radiated Spurious Data (ULCA B41 PCC: RB 1 Offset 99, SCC: RB 1 Offset 0 – Mid Channel)

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OPERATING FREQUENCY (PCC):	2680.00	MHz
OPERATING FREQUENCY (SCC):	2660.20	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	20.0	MHz
DISTANCE:	3	meters
LIMIT:	-25	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5360.00	H	-	-	-60.73	8.99	-51.74	-26.7
8040.00	H	-	-	-57.68	9.32	-48.36	-23.4
10720.00	H	-	-	-53.92	9.30	-44.62	-19.6

Table 7-187. Radiated Spurious Data (ULCA B41 PCC: RB 1 Offset 0, SCC: RB 1 Offset 99 – High Channel)

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7.11 Frequency Stability / Temperature Variation

Test Overview and Limit

Frequency stability testing is performed in accordance with the guidelines of ANSI/TIA-603-E-2016. The frequency stability of the transmitter is measured by:

a.) **Temperature:** The temperature is varied from -30°C to +50°C in 10°C increments using an environmental chamber.

b.) **Primary Supply Voltage:** The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

For Part 22, the frequency stability of the transmitter shall be maintained within ±0.00025% (±2.5 ppm) of the center frequency. For Part 24, Part 27, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

Test Procedure Used

ANSI/TIA-603-E-2016

Test Settings

1. The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).
2. The equipment is turned on in a "standby" condition for fifteen minutes before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
3. Frequency measurements are made at 10°C intervals ranging from -30°C to +50°C. A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

Test Setup

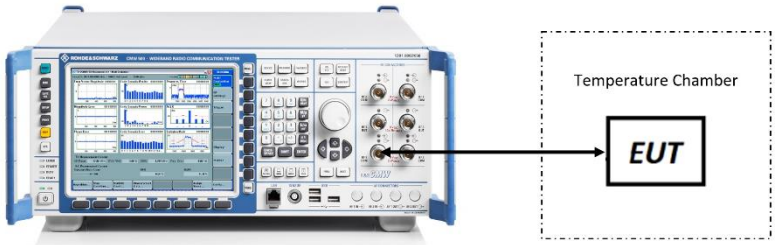

Figure 7-11. Test Instrument & Measurement Setup

Test Notes

1. All ports were tested and only the worst case data were reported.
2. Refer to Table 2-1 Section 2.3 of this test report for correlation between Antennas and Ports.

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Band 12/17 Frequency Stability Measurements

OPERATING FREQUENCY:	707,500,000	Hz
CHANNEL:	23790	
REFERENCE VOLTAGE:	3.80	VDC

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	707,500,006	6	0.0000009
100 %		- 20	707,500,008	8	0.0000012
100 %		- 10	707,500,008	8	0.0000011
100 %		0	707,500,008	8	0.0000011
100 %		+ 10	707,500,008	8	0.0000011
100 %		+ 20	707,500,006	6	0.0000009
100 %		+ 30	707,500,006	6	0.0000009
100 %		+ 40	707,500,007	7	0.0000010
100 %		+ 50	707,500,007	7	0.0000010
BATT. ENDPOINT	3.20	+ 20	707,500,007	7	0.0000010

Table 7-188. Frequency Stability Data (Band 12/17)

Note:

Based on the results of the frequency stability test at the center channel the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

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Band 12/17 Frequency Stability Measurements

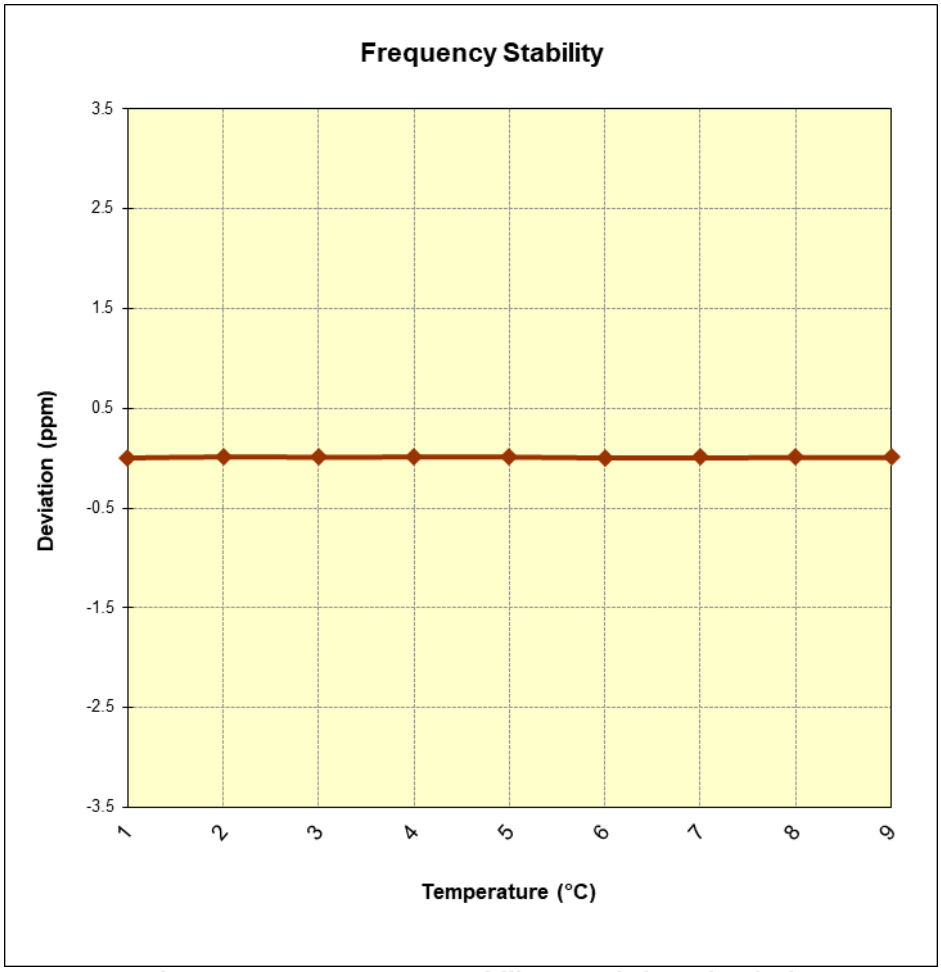

Figure 7-12. Frequency Stability Graph (Band 12/17)

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Band 13 Frequency Stability Measurements

OPERATING FREQUENCY:	782,000,000	Hz
CHANNEL:	23230	
REFERENCE VOLTAGE:	3.80	VDC

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	782,000,005	5	0.0000007
100 %		- 20	782,000,010	10	0.0000013
100 %		- 10	782,000,013	13	0.0000017
100 %		0	782,000,011	11	0.0000014
100 %		+ 10	782,000,009	9	0.0000011
100 %		+ 20	782,000,006	6	0.0000008
100 %		+ 30	782,000,006	6	0.0000008
100 %		+ 40	782,000,007	7	0.0000008
100 %		+ 50	782,000,007	7	0.0000009
BATT. ENDPOINT	3.20	+ 20	782,000,006	6	0.0000008

Table 7-189. Frequency Stability Data (Band 13)

Note:

Based on the results of the frequency stability test at the center channel the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

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Band 13 Frequency Stability Measurements

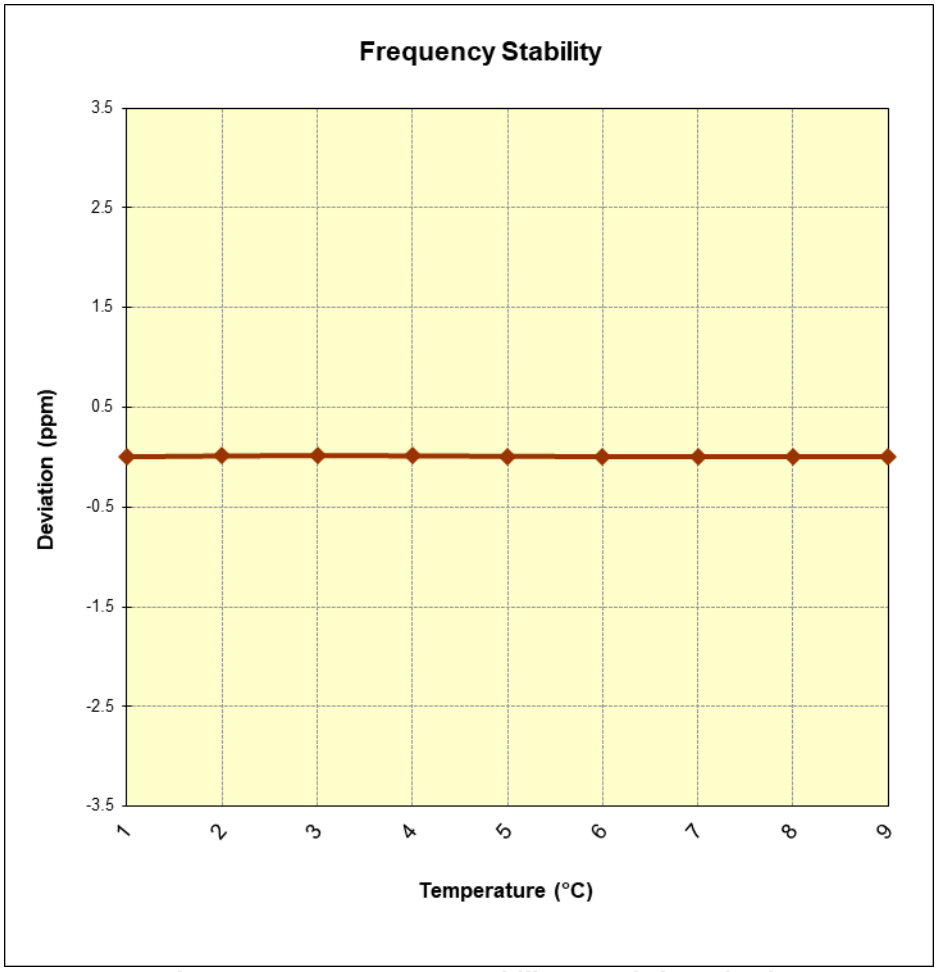

Figure 7-13. Frequency Stability Graph (Band 13)

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Band 26/5 Frequency Stability Measurements

OPERATING FREQUENCY:	836,500,000	Hz
CHANNEL:	26865	
REFERENCE VOLTAGE:	3.80	VDC
DEVIATION LIMIT:	± 0.00025 % or 2.5 ppm	

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	836,500,006	6	0.0000007
100 %		- 20	836,499,962	-38	-0.0000045
100 %		- 10	836,500,009	9	0.0000011
100 %		0	836,500,008	8	0.0000010
100 %		+ 10	836,500,009	9	0.0000010
100 %		+ 20	836,500,006	6	0.0000007
100 %		+ 30	836,500,008	8	0.0000009
100 %		+ 40	836,500,008	8	0.0000009
100 %		+ 50	836,500,008	8	0.0000010
BATT. ENDPOINT	3.20	+ 20	836,500,008	8	0.0000010

Table 7-190. Frequency Stability Data (Band 26/5)

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Band 26/5 Frequency Stability Measurements

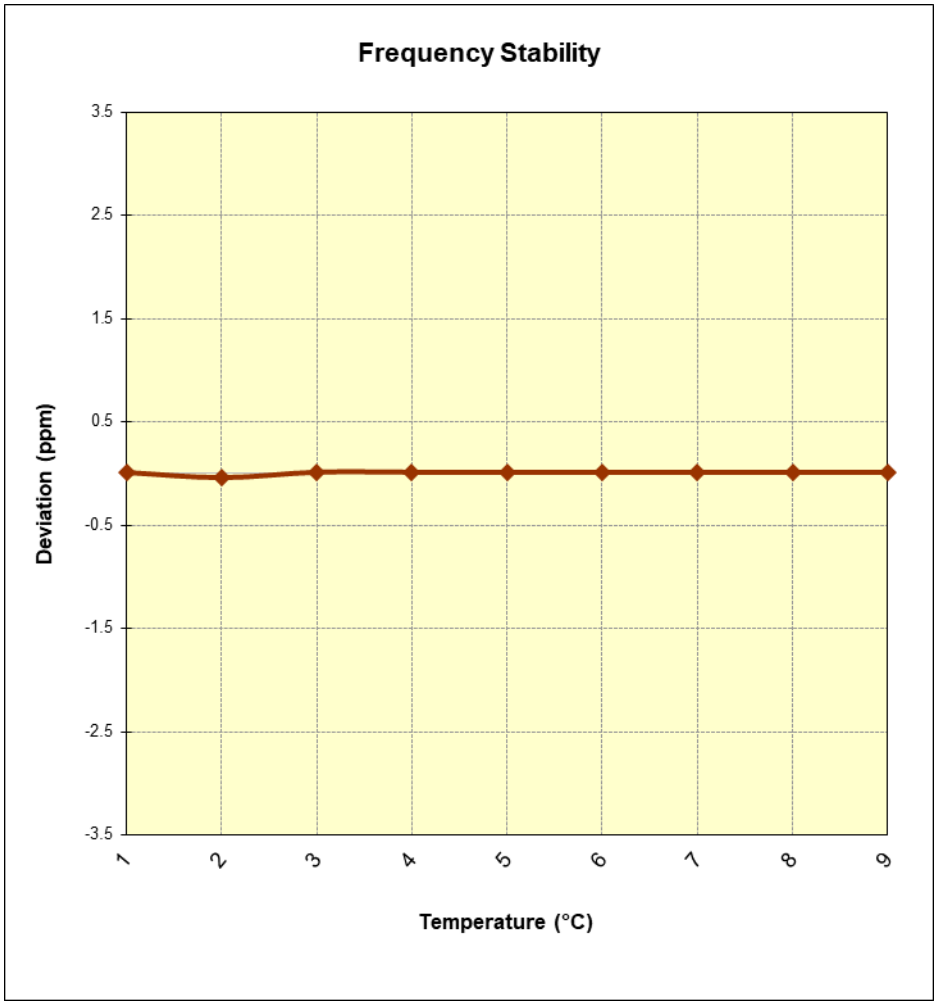

Figure 7-14. Frequency Stability Graph (Band 26/5)

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Band 66/4 Frequency Stability Measurements

OPERATING FREQUENCY:	1,745,000,000	Hz
CHANNEL:	132322	
REFERENCE VOLTAGE:	3.80	VDC

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	1,745,000,011	11	0.0000007
100 %		- 20	1,745,000,013	13	0.0000008
100 %		- 10	1,744,999,988	-12	-0.0000007
100 %		0	1,745,000,013	13	0.0000008
100 %		+ 10	1,745,000,011	11	0.0000006
100 %		+ 20	1,745,000,010	10	0.0000006
100 %		+ 30	1,745,000,009	9	0.0000005
100 %		+ 40	1,745,000,009	9	0.0000005
100 %		+ 50	1,745,000,009	9	0.0000005
BATT. ENDPOINT	3.20	+ 20	1,745,000,011	11	0.0000006

Table 7-191. Frequency Stability Data (Band 66/4)

Note:

Based on the results of the frequency stability test at the center channel the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

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Band 66/4 Frequency Stability Measurements

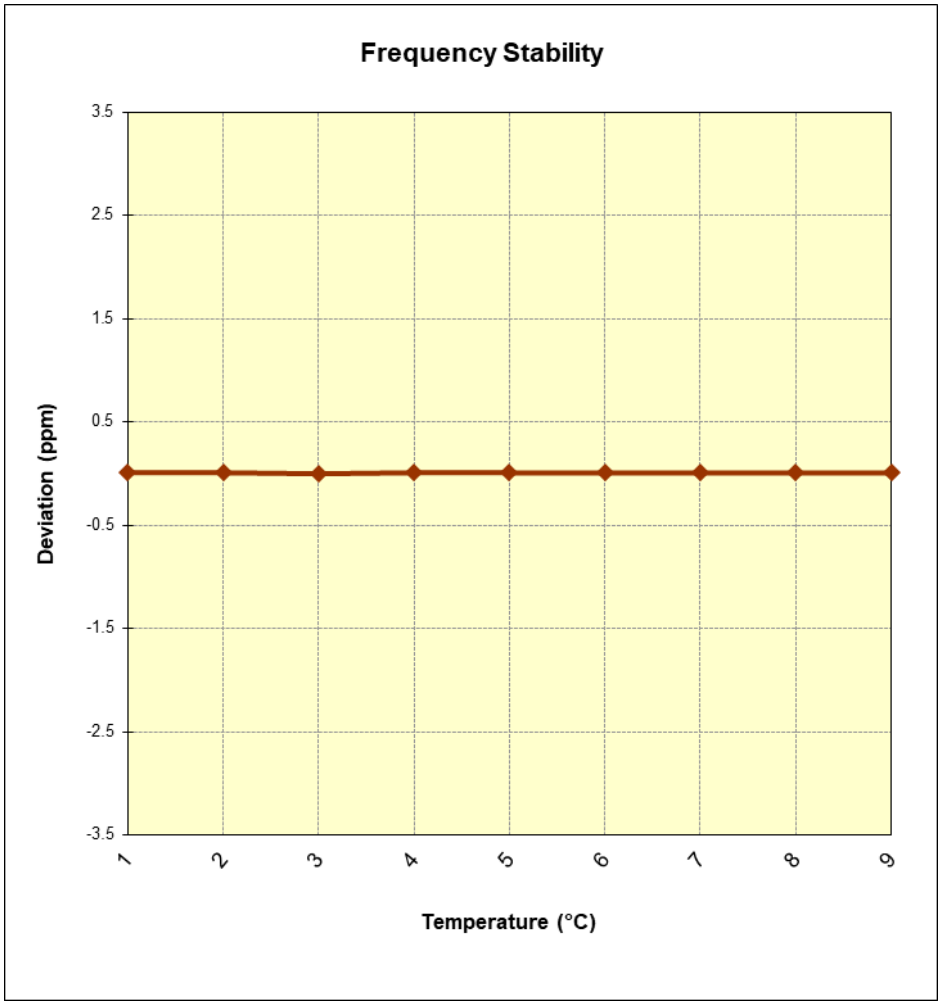

Figure 7-15. Frequency Stability Graph (Band 66/4)

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Band 25/2 Frequency Stability Measurements

OPERATING FREQUENCY:	1,882,500,000	Hz
CHANNEL:	26365	
REFERENCE VOLTAGE:	3.80	VDC
DEVIATION LIMIT:	± 0.00025 % or 2.5 ppm	

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	1,882,500,011	11	0.0000006
100 %		- 20	1,882,499,986	-14	-0.0000008
100 %		- 10	1,882,499,984	-16	-0.0000009
100 %		0	1,882,500,015	15	0.0000008
100 %		+ 10	1,882,500,011	11	0.0000006
100 %		+ 20	1,882,500,010	10	0.0000006
100 %		+ 30	1,882,500,010	10	0.0000005
100 %		+ 40	1,882,500,010	10	0.0000005
100 %		+ 50	1,882,500,010	10	0.0000005
BATT. ENDPOINT	3.20	+ 20	1,882,500,010	10	0.0000005

Table 7-192. Frequency Stability Data (Band 25/2)

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Band 25/2 Frequency Stability Measurements

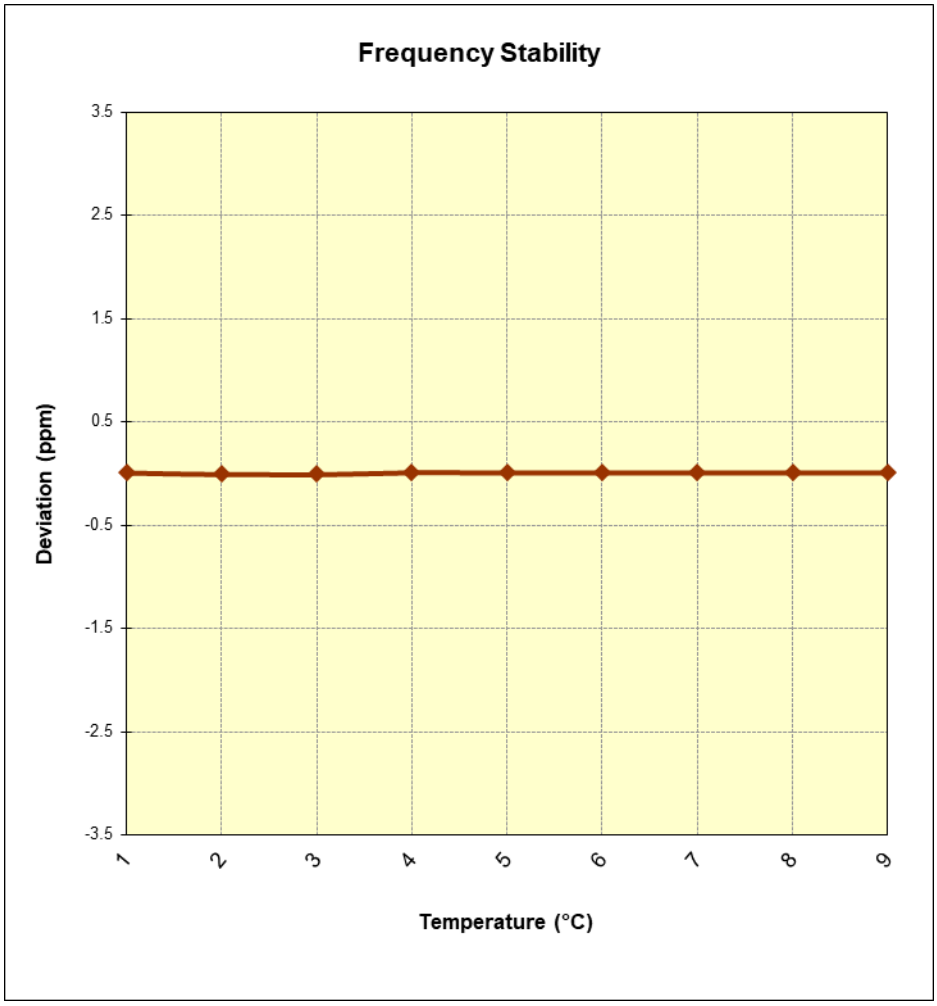

Figure 7-16. Frequency Stability Graph (Band 25/2)

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Band 30 Frequency Stability Measurements

OPERATING FREQUENCY:	2,310,000,000	Hz
CHANNEL:	27710	
REFERENCE VOLTAGE:	3.80	VDC

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	2,310,000,011	11	0.0000005
100 %		- 20	2,310,000,019	19	0.0000008
100 %		- 10	2,310,000,017	17	0.0000007
100 %		0	2,310,000,020	20	0.0000009
100 %		+ 10	2,310,000,013	13	0.0000006
100 %		+ 20	2,310,000,011	11	0.0000005
100 %		+ 30	2,310,000,011	11	0.0000005
100 %		+ 40	2,310,000,015	15	0.0000006
100 %		+ 50	2,310,000,015	15	0.0000006
BATT. ENDPOINT	3.20	+ 20	2,310,000,015	15	0.0000007

Table 7-193. Frequency Stability Data (Band 30)

Note:

Based on the results of the frequency stability test at the center channel the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

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Band 30 Frequency Stability Measurements

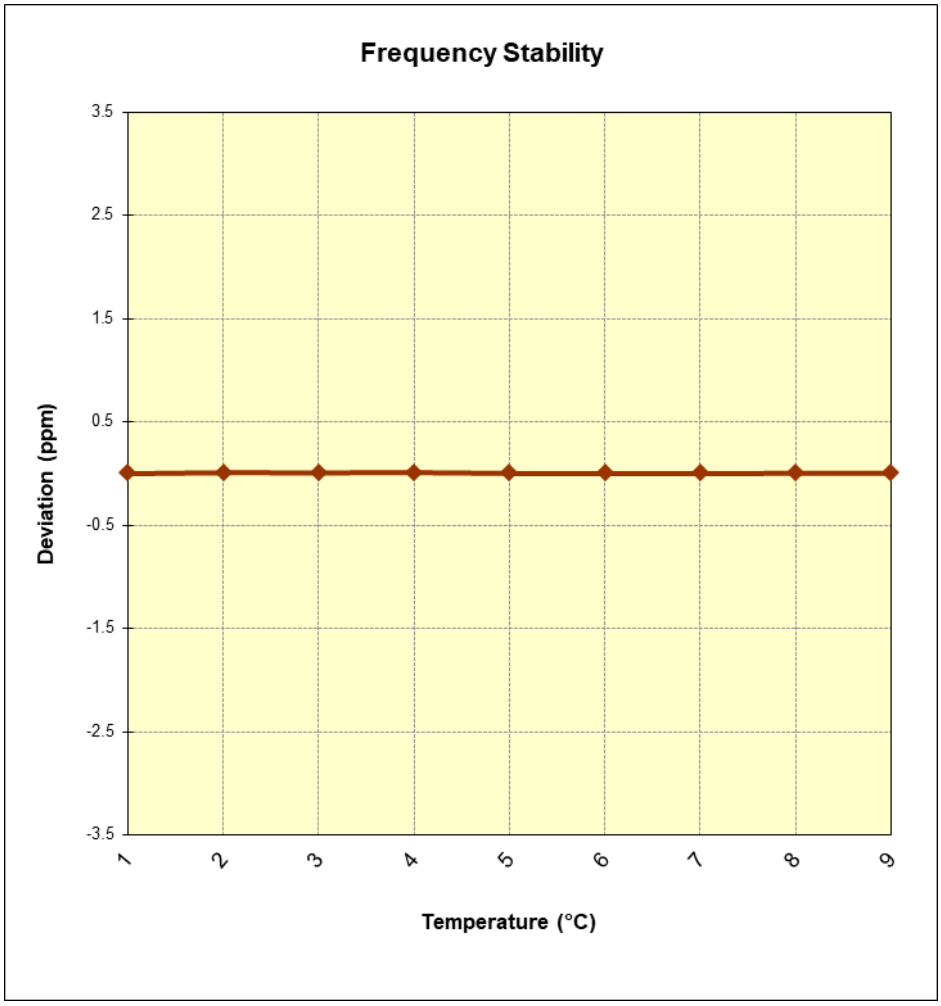

Figure 7-17. Frequency Stability Graph (Band 30)

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Band 7 Frequency Stability Measurements

OPERATING FREQUENCY:	2,535,000,000	Hz
CHANNEL:	21100	
REFERENCE VOLTAGE:	3.80	VDC

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	2,535,000,021	21	0.0000008
100 %		- 20	2,534,999,983	-17	-0.0000007
100 %		- 10	2,535,000,018	18	0.0000007
100 %		0	2,535,000,020	20	0.0000008
100 %		+ 10	2,535,000,016	16	0.0000006
100 %		+ 20	2,535,000,015	15	0.0000006
100 %		+ 30	2,535,000,012	12	0.0000005
100 %		+ 40	2,535,000,013	13	0.0000005
100 %		+ 50	2,535,000,014	14	0.0000006
BATT. ENDPOINT	3.20	+ 20	2,535,000,046	46	0.0000018

Table 7-194. Frequency Stability Data (Band 7)

Note:

Based on the results of the frequency stability test at the center channel the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

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Band 7 Frequency Stability Measurements

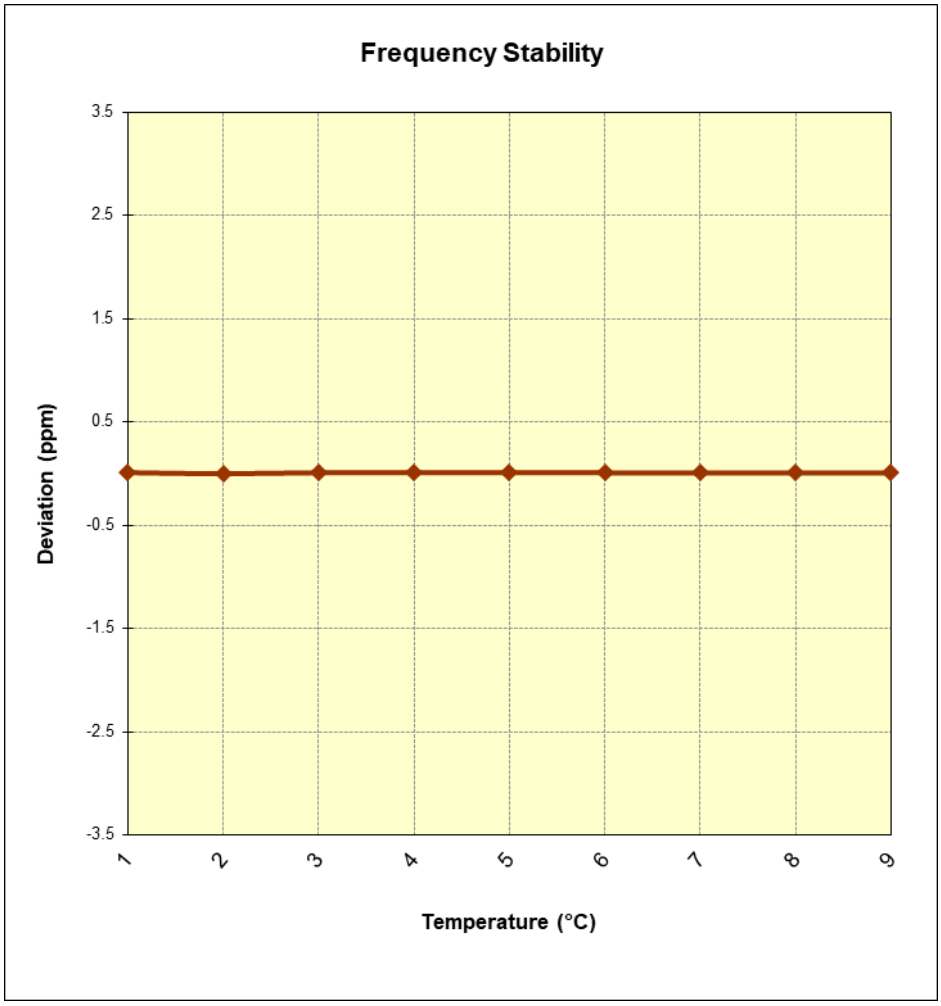

Figure 7-18. Frequency Stability Graph (Band 7)

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Band 41 Frequency Stability Measurements

OPERATING FREQUENCY:	2,593,000,000	Hz
CHANNEL:	40620	
REFERENCE VOLTAGE:	3.80	VDC

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	2,593,000,063	63	0.0000024
100 %		- 20	2,593,000,067	67	0.0000026
100 %		- 10	2,593,000,065	65	0.0000025
100 %		0	2,593,000,067	67	0.0000026
100 %		+ 10	2,593,000,064	64	0.0000025
100 %		+ 20	2,593,000,060	60	0.0000023
100 %		+ 30	2,593,000,061	61	0.0000024
100 %		+ 40	2,593,000,061	61	0.0000024
100 %		+ 50	2,593,000,060	60	0.0000023
BATT. ENDPOINT	3.20	+ 20	2,593,000,061	61	0.0000024

Table 7-195. Frequency Stability Data (Band 41)

Note:

Based on the results of the frequency stability test at the center channel the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

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Band 41 Frequency Stability Measurements

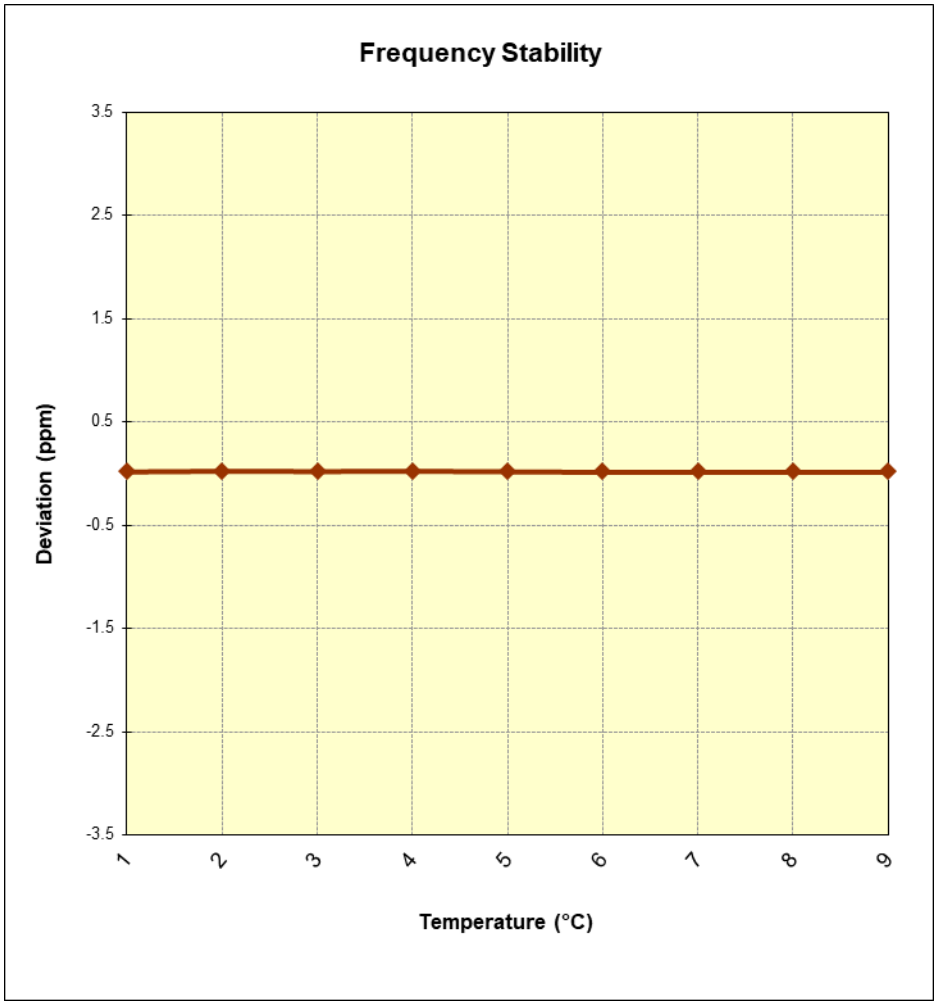

Figure 7-19. Frequency Stability Graph (Band 41)

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8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Apple Tablet Device FCC ID: BCGA2232** complies with all the requirements of Part 22, 24, & 27 of the FCC Rules for LTE operation only.

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