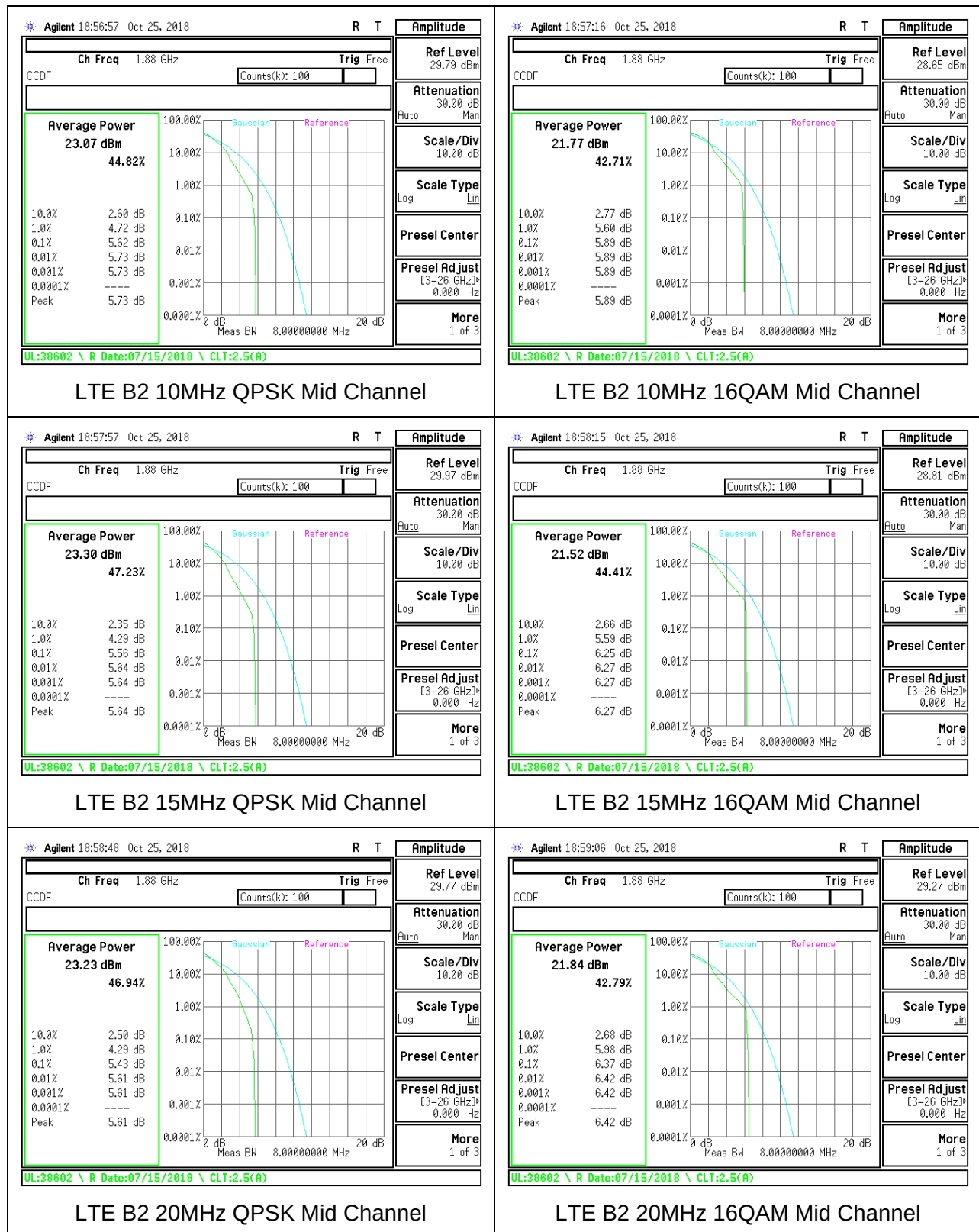
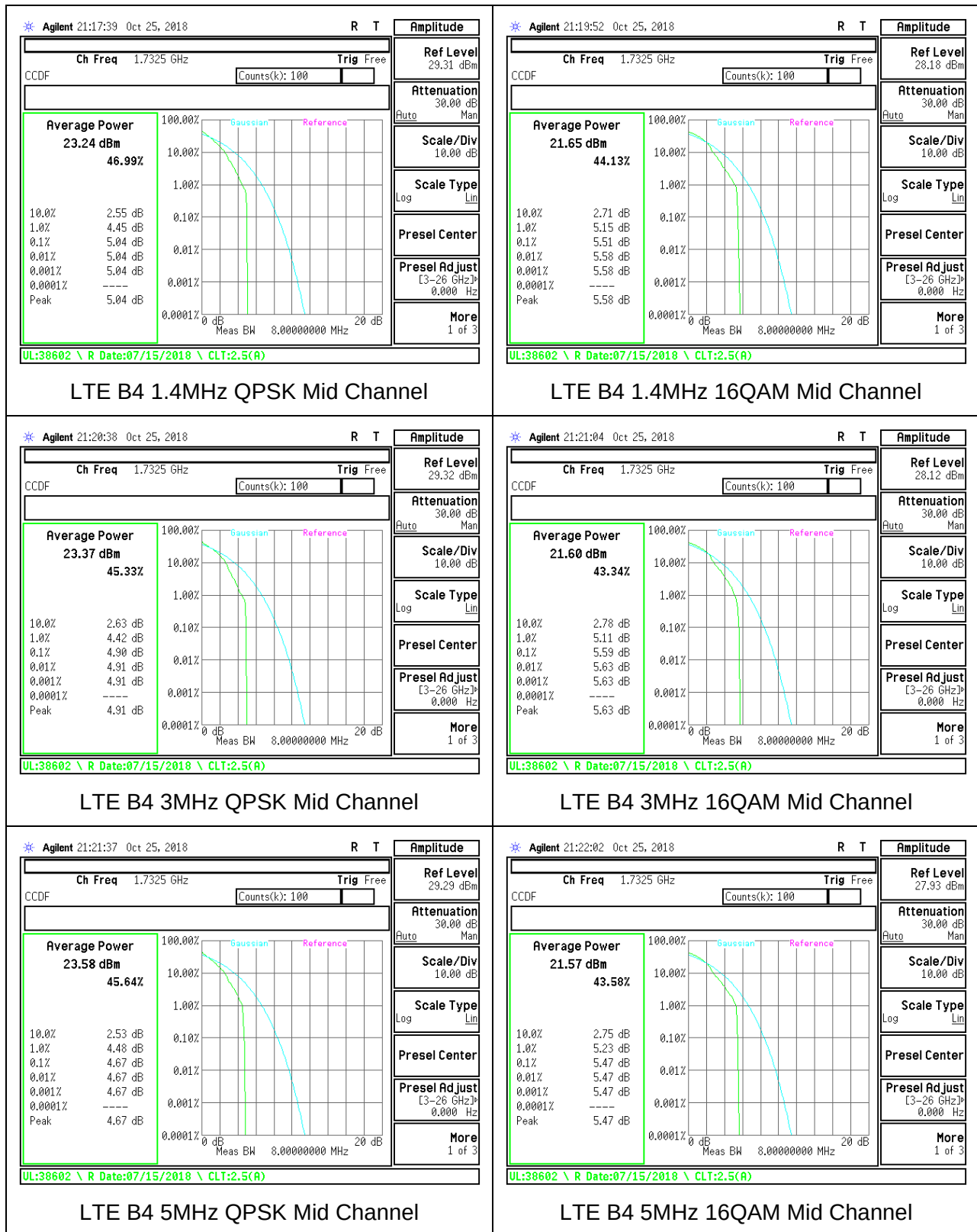
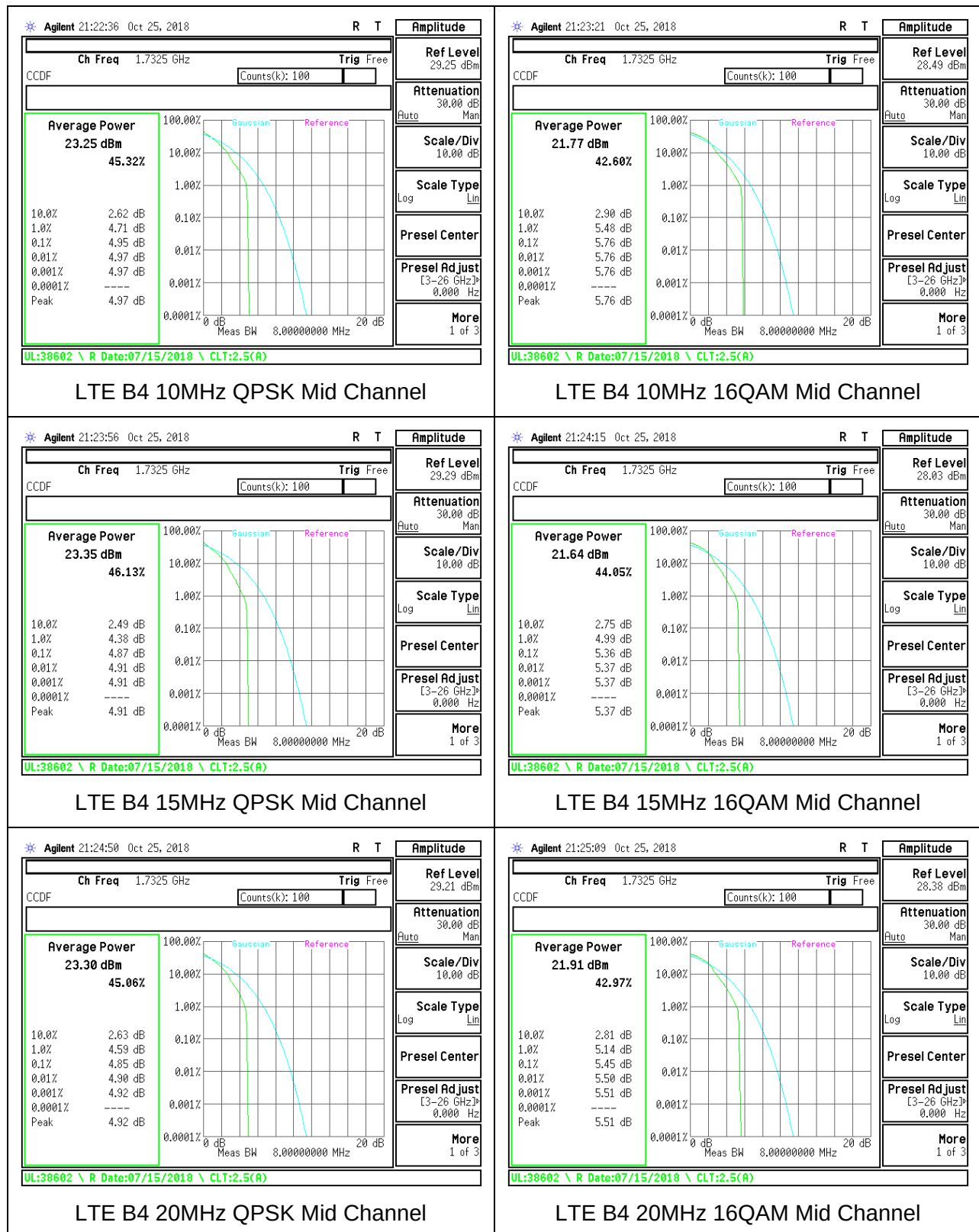


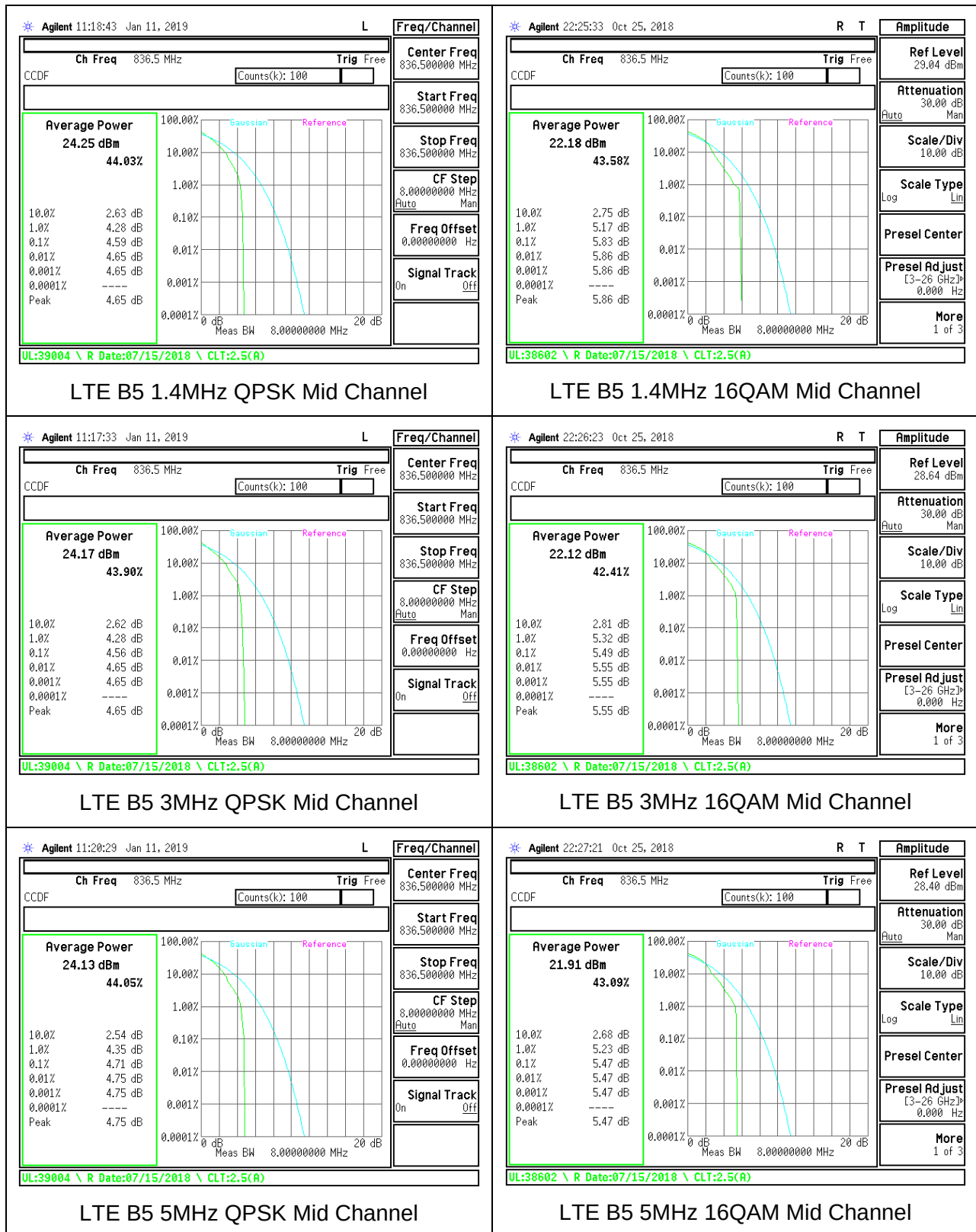


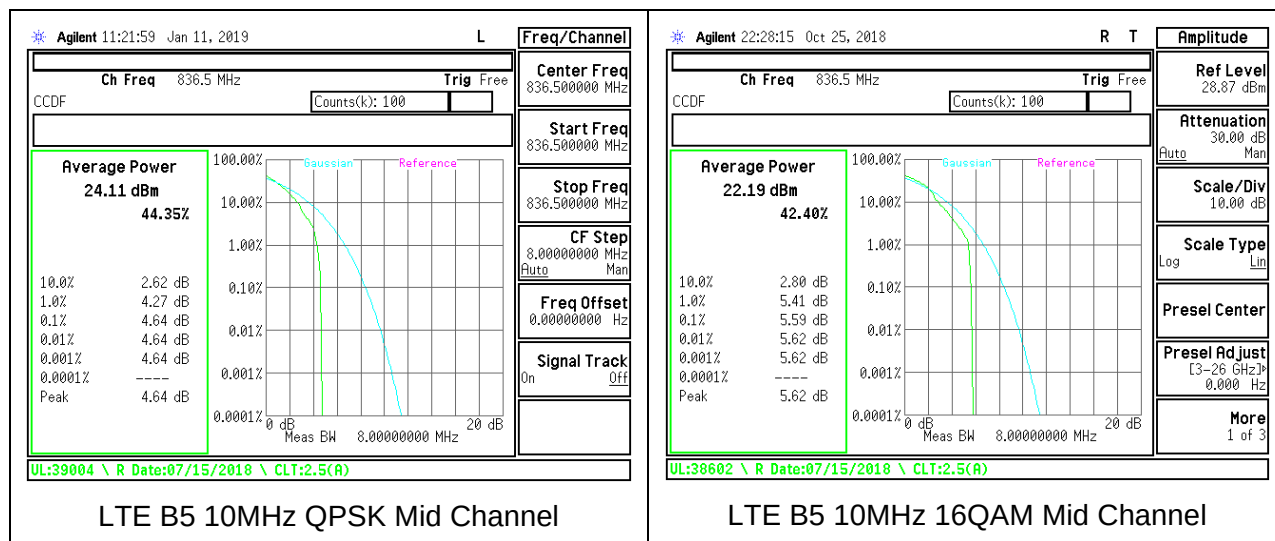
9.5.4. LTE BAND 4



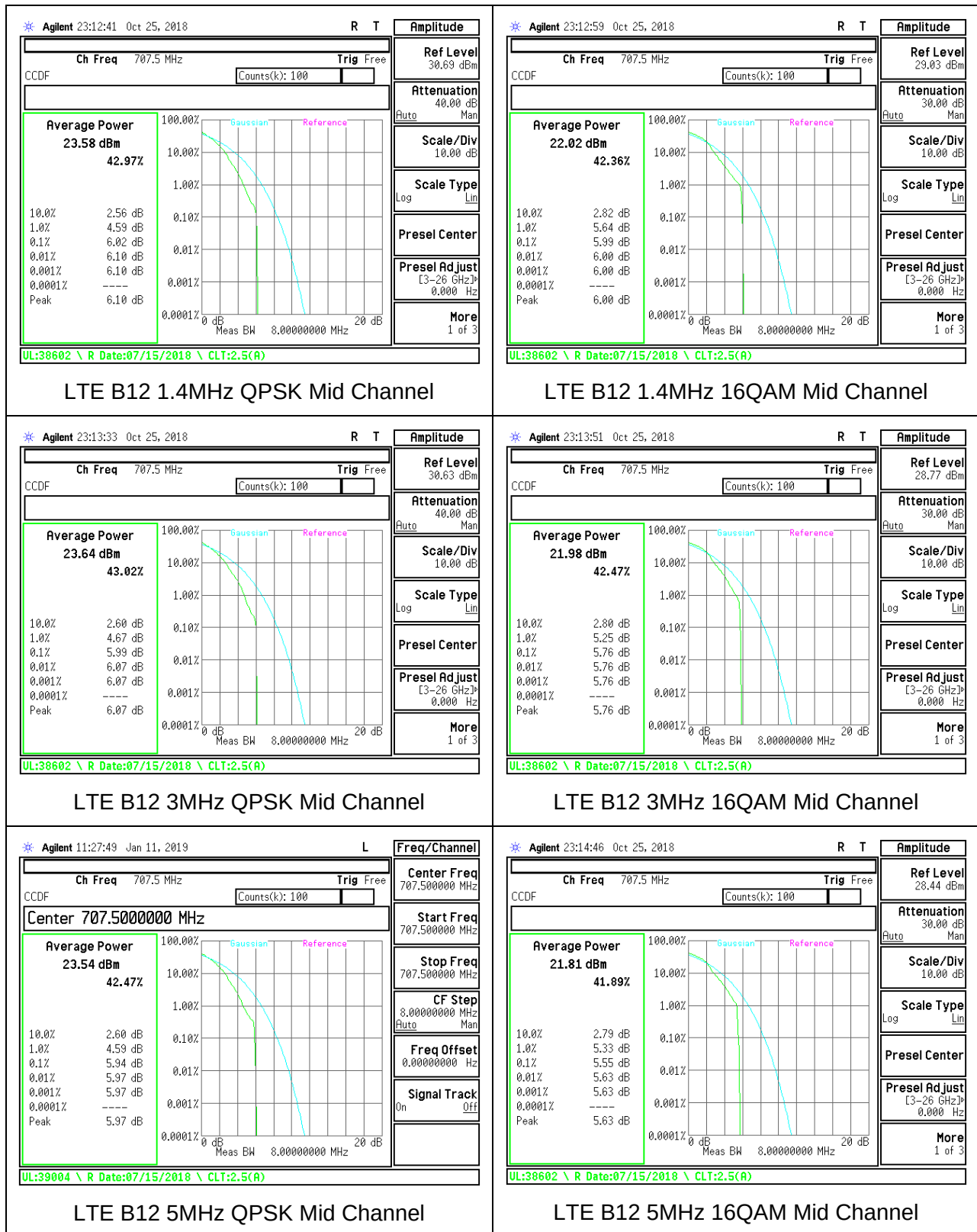


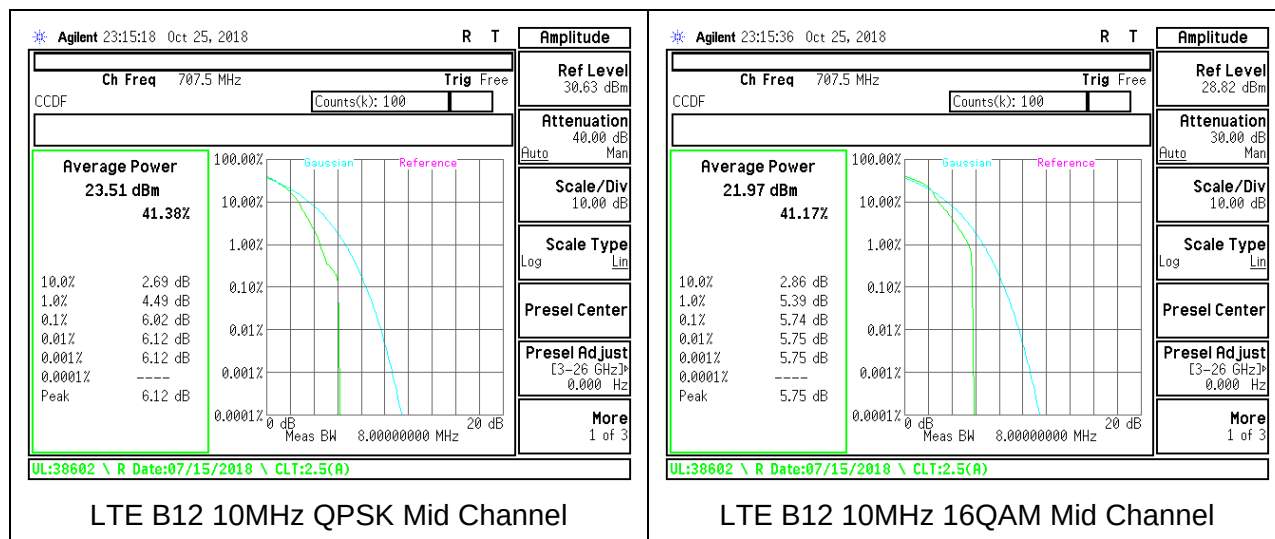
9.5.5. LTE BAND 5



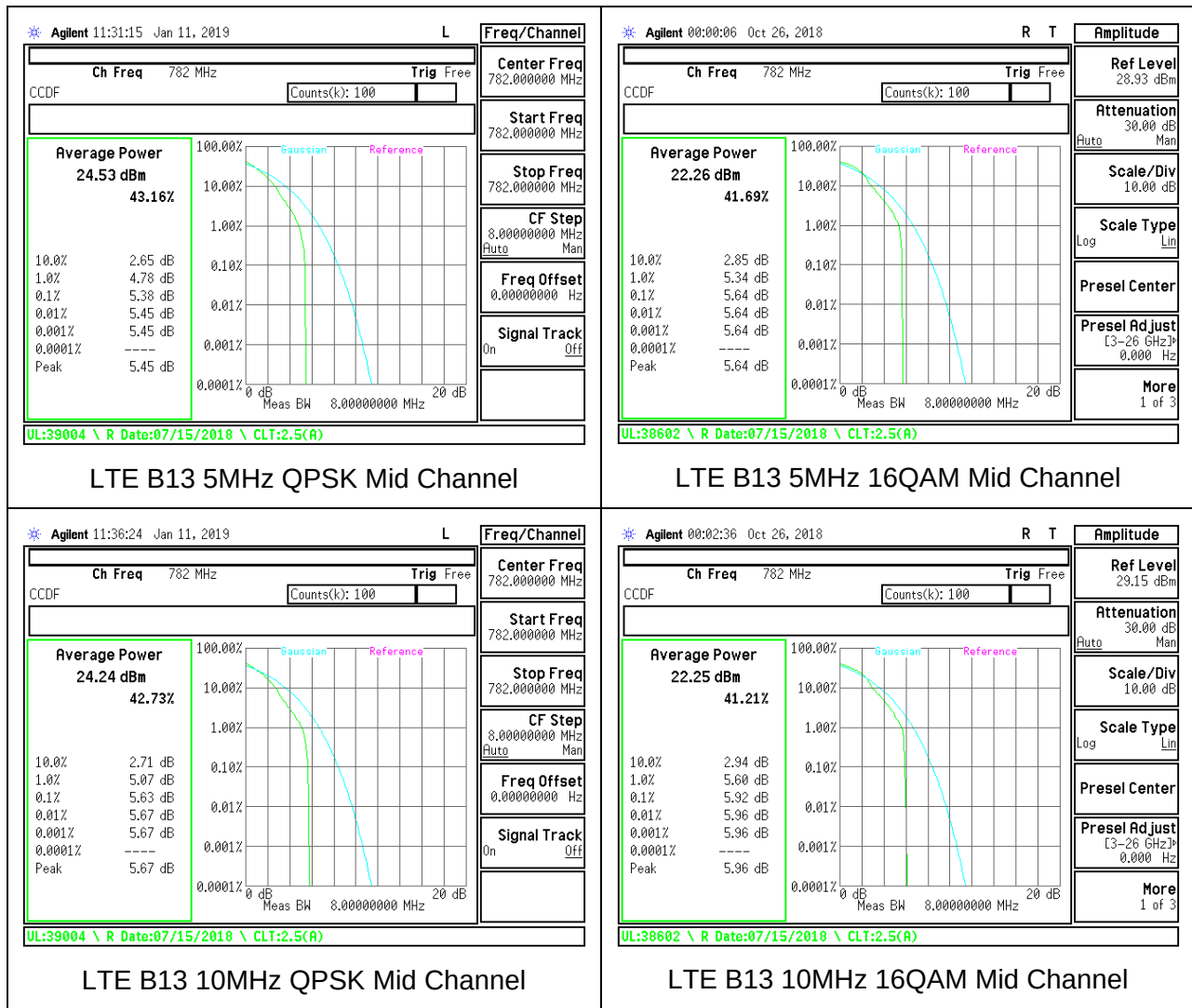


9.5.6. LTE BAND 12

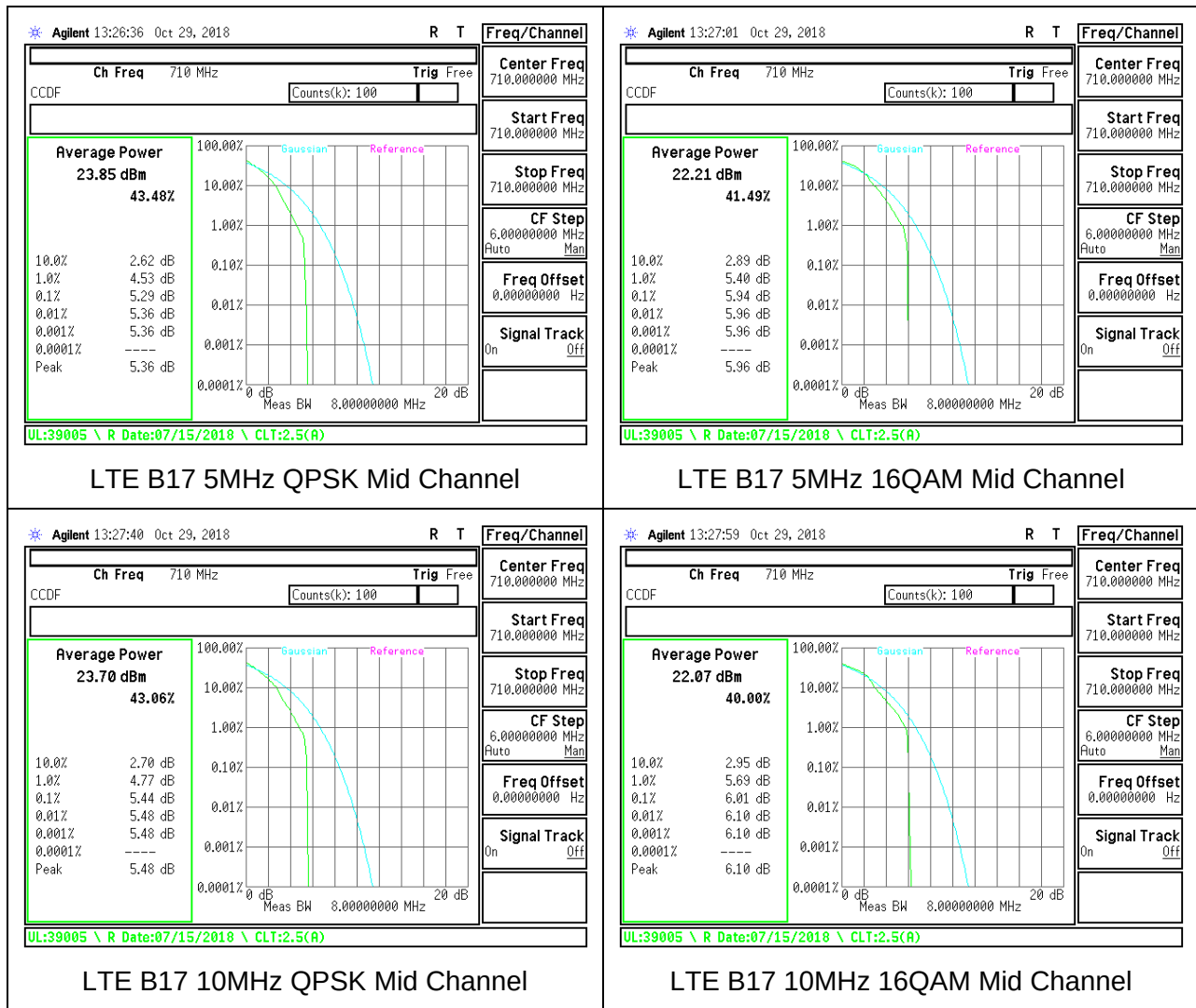




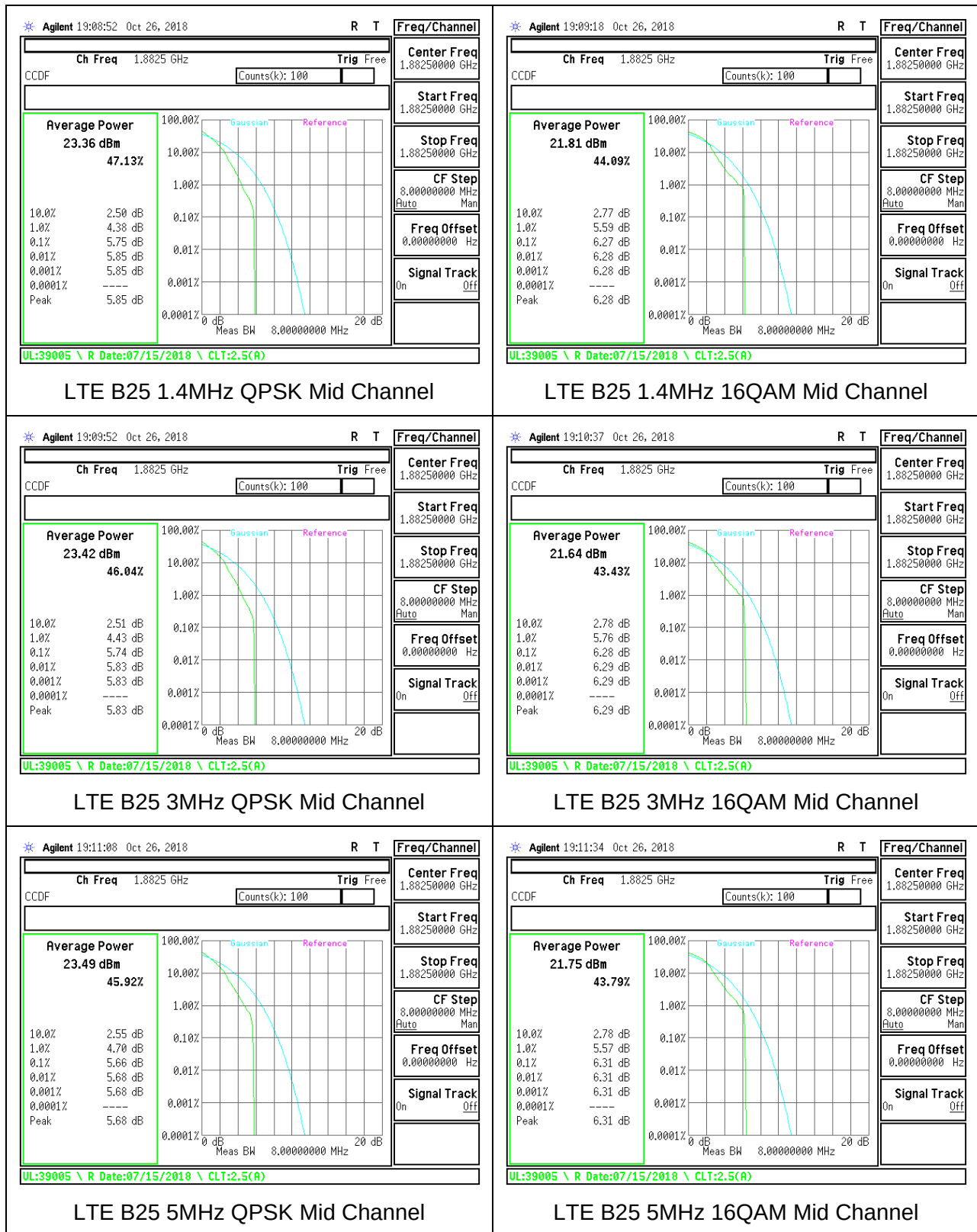
9.5.7. LTE BAND 13

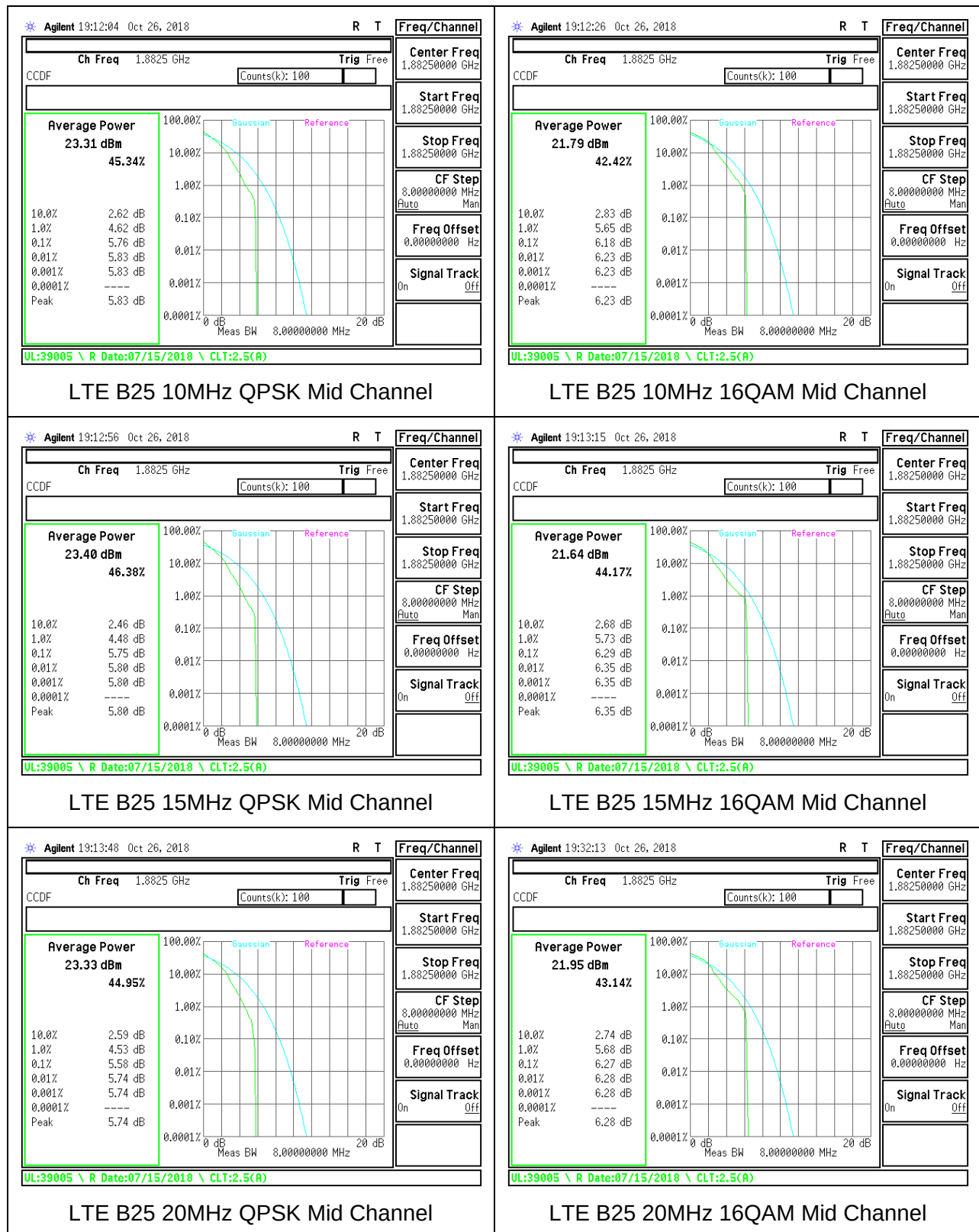


9.5.8. LTE BAND 17

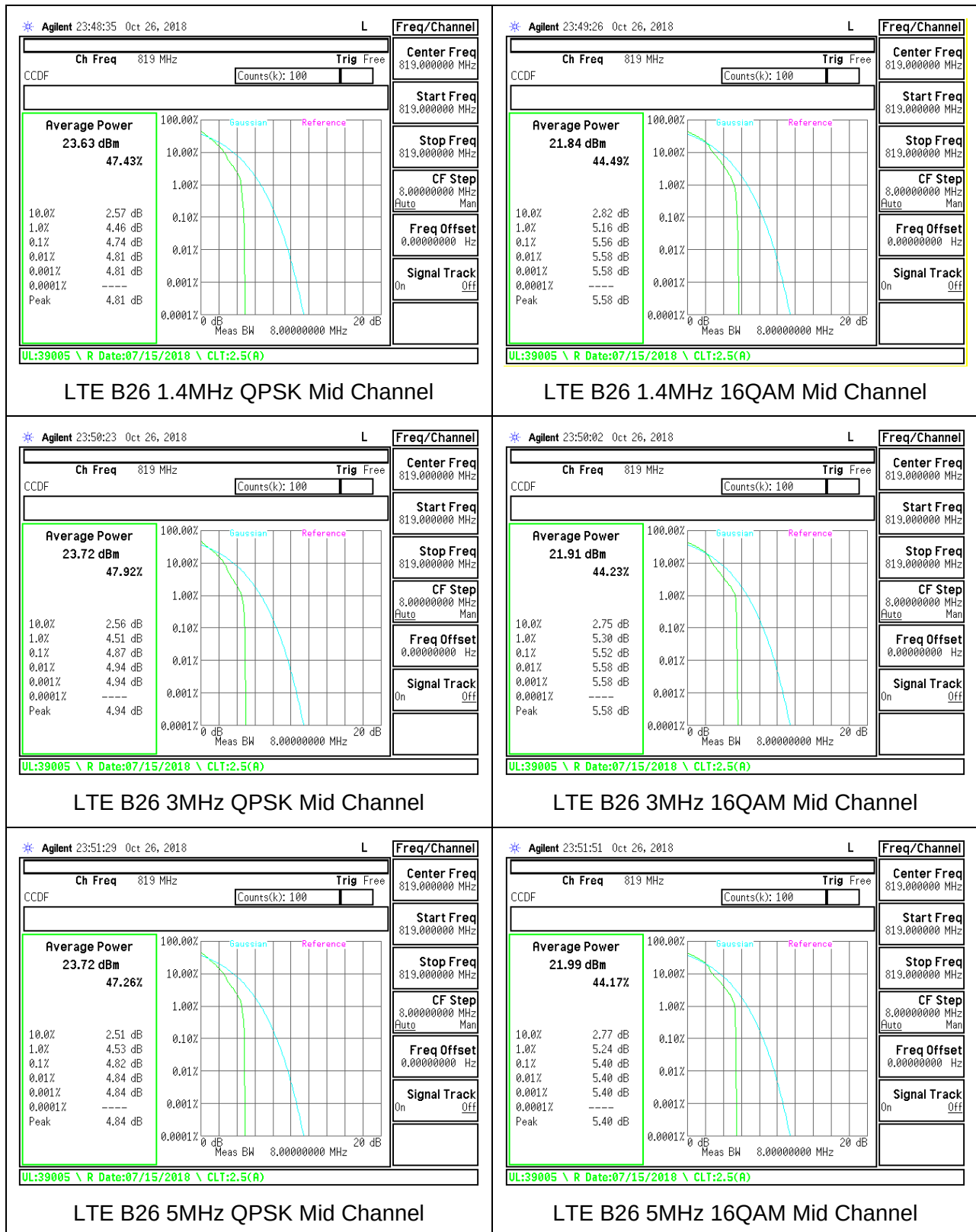


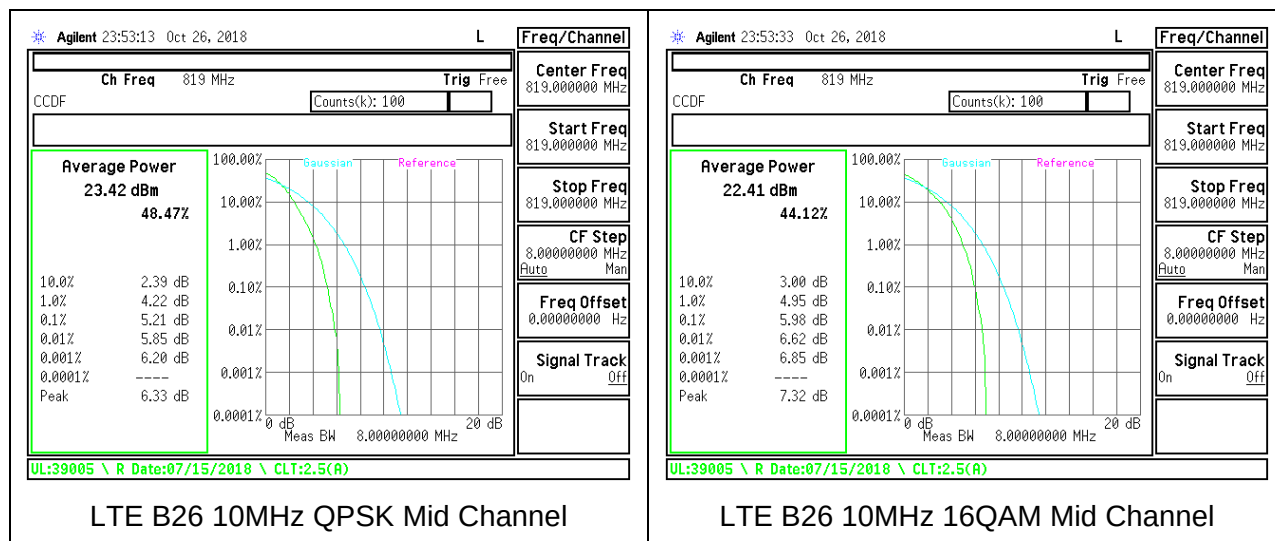
9.5.9. LTE BAND 25



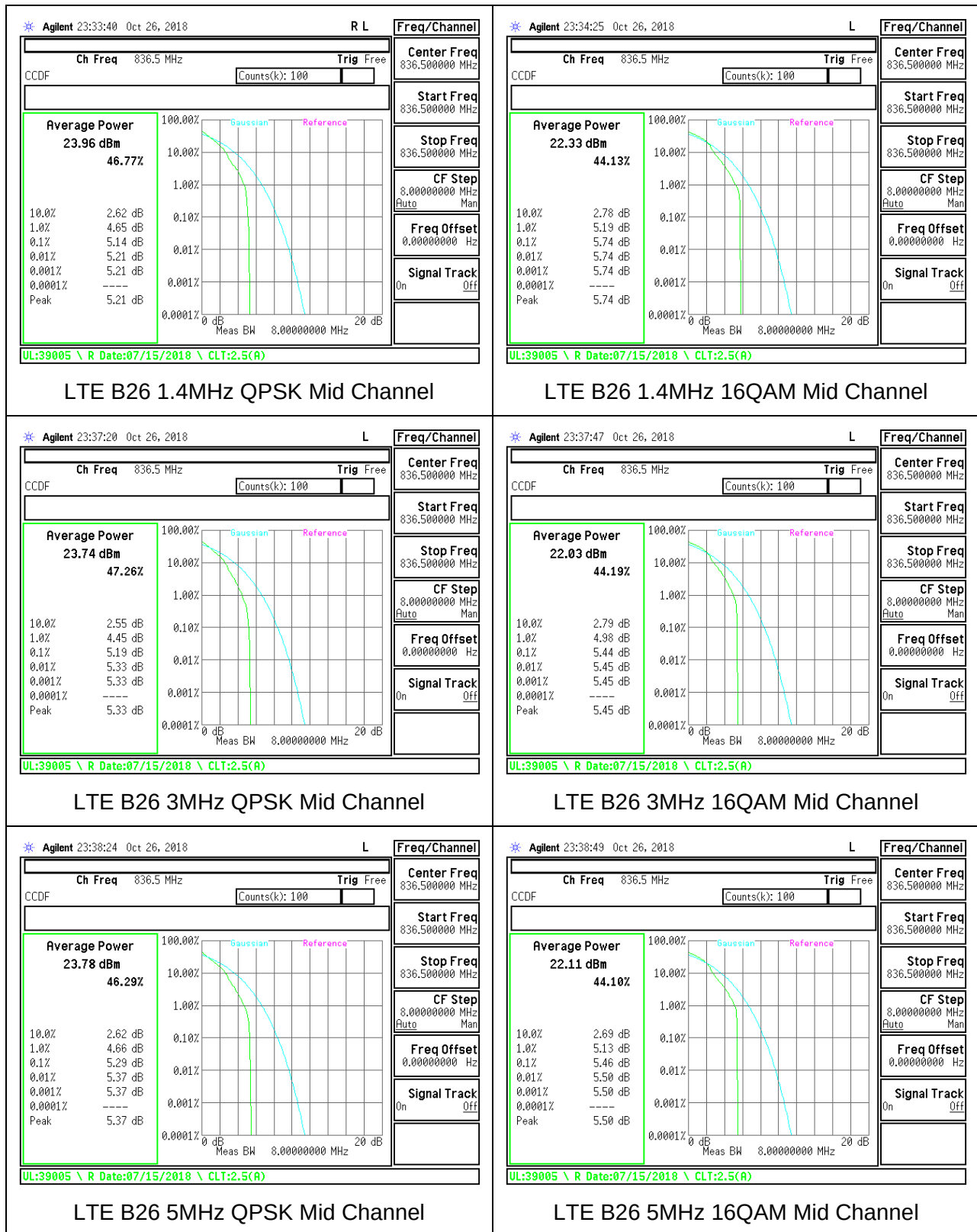


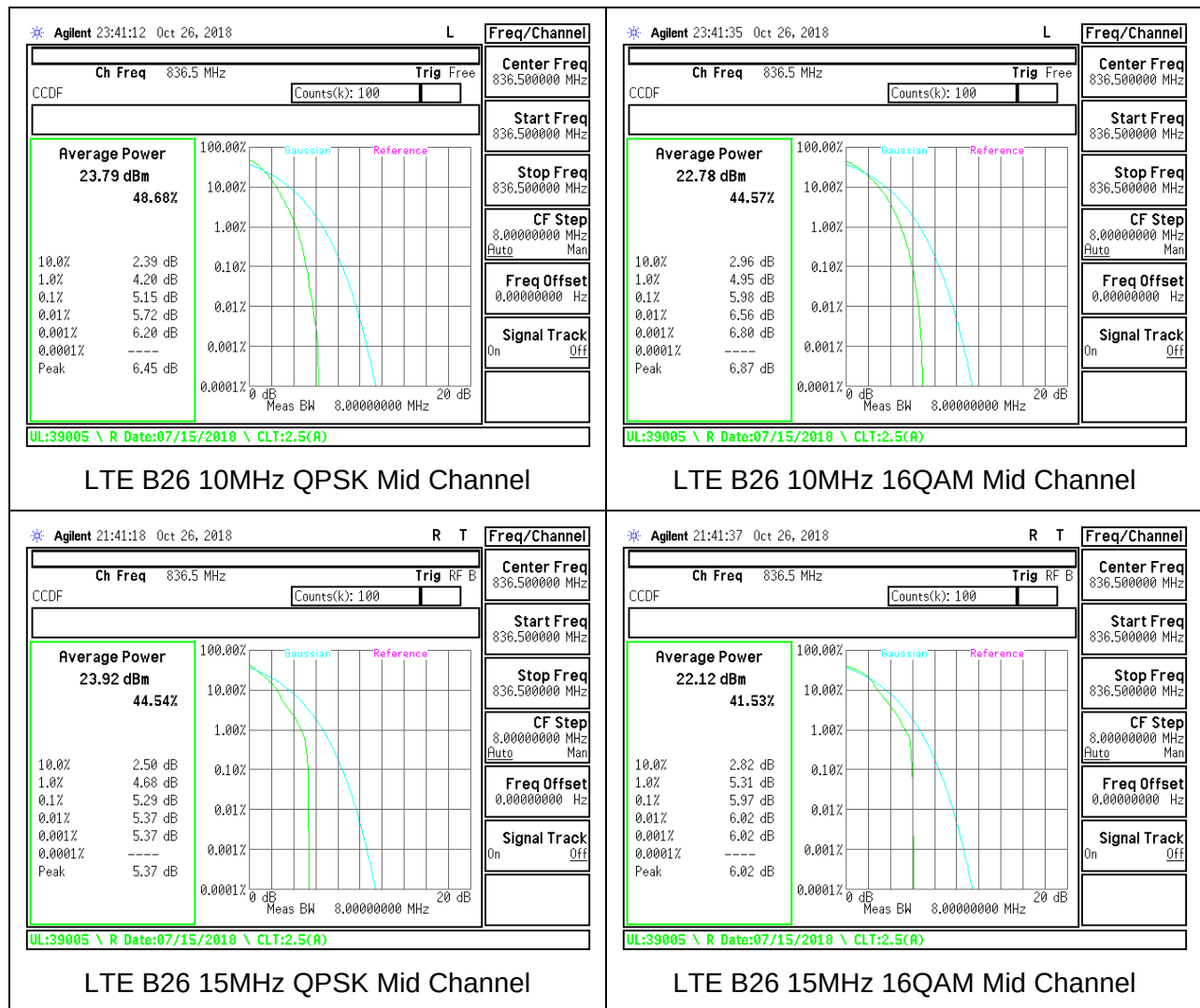
9.5.10. LTE BAND 26 (FCC PART 90S)



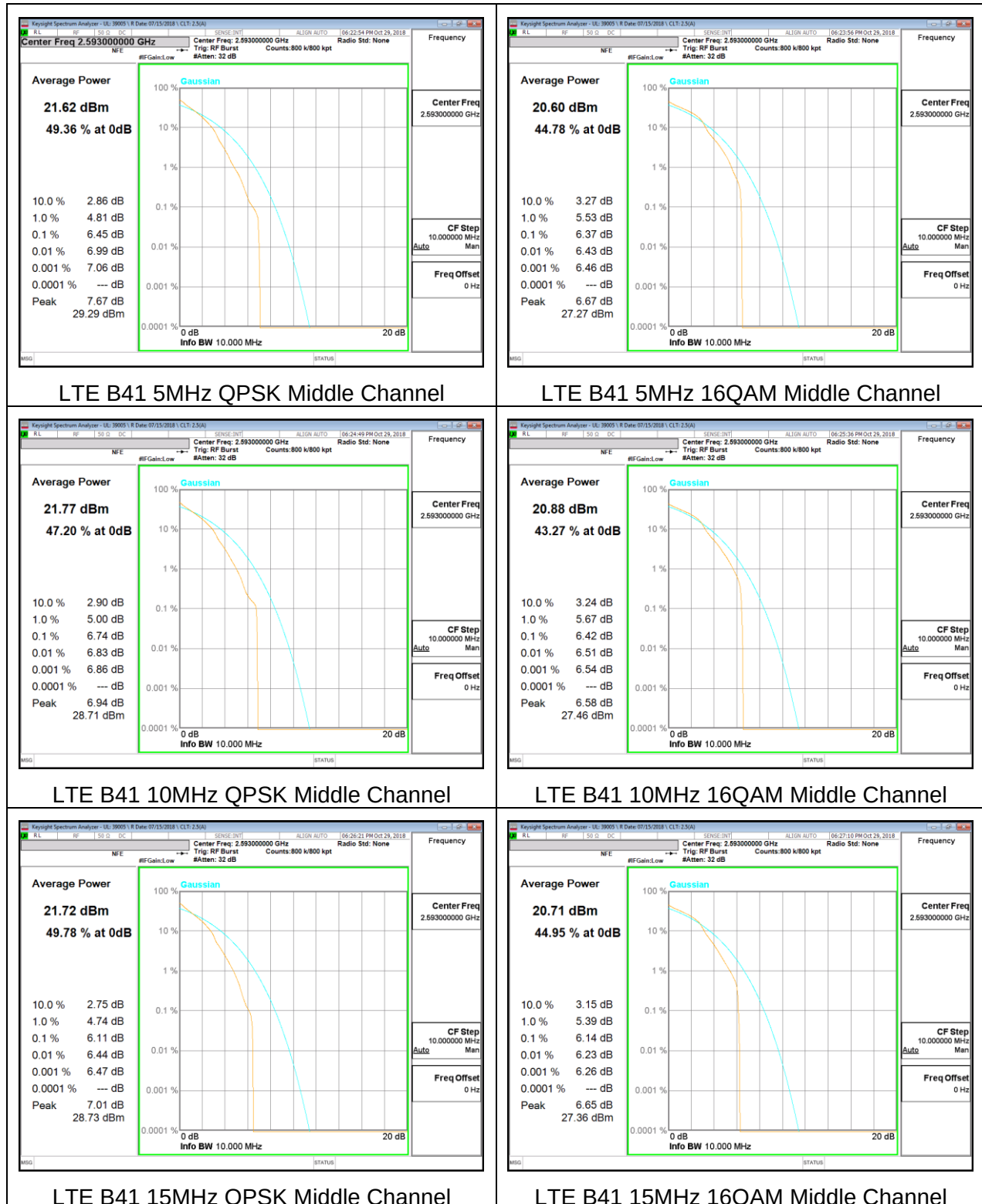


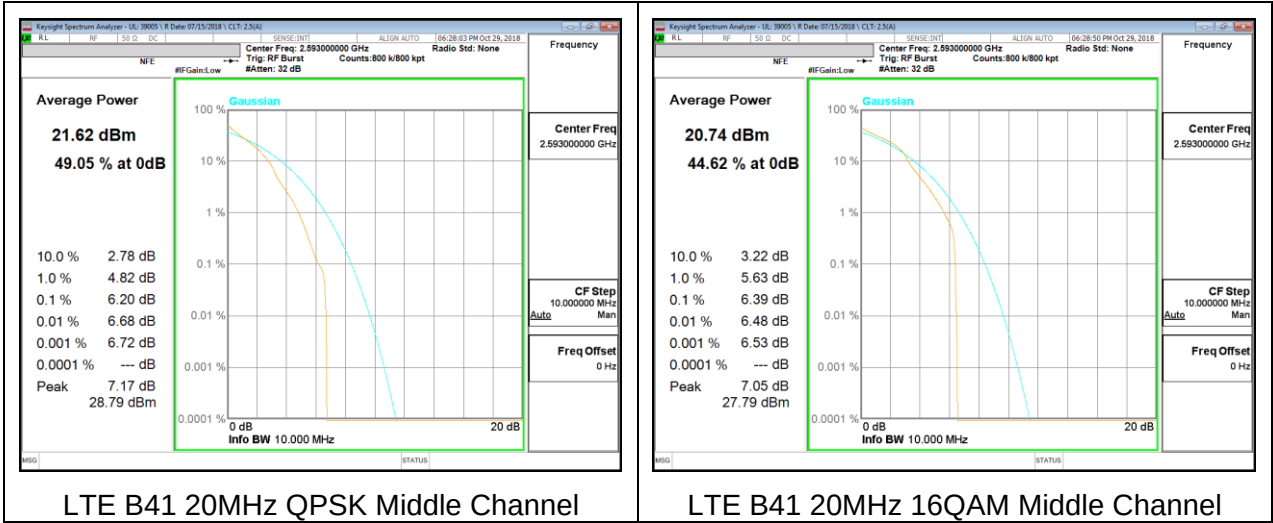
9.5.11. LTE BAND 26 (FCC PART 22)



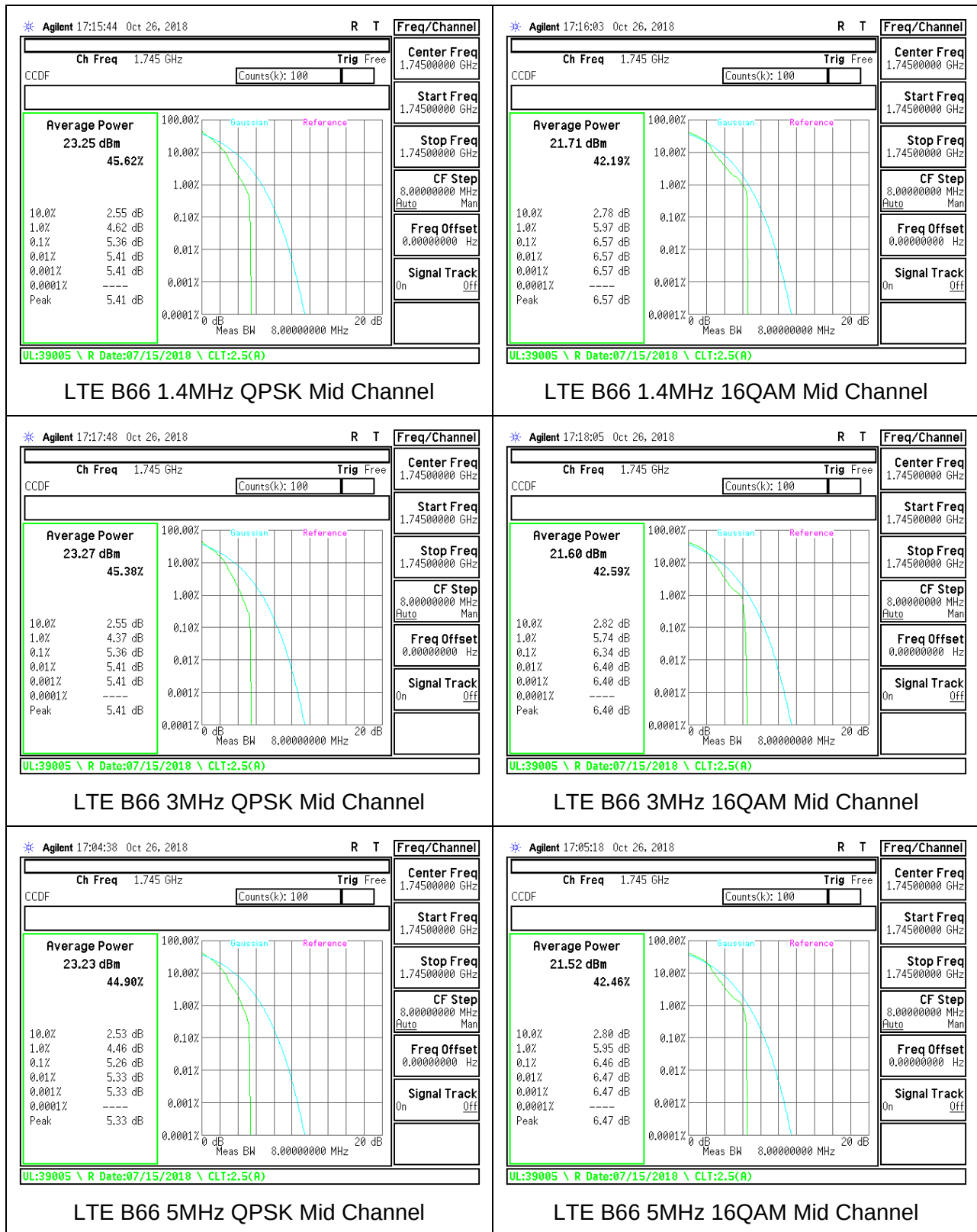


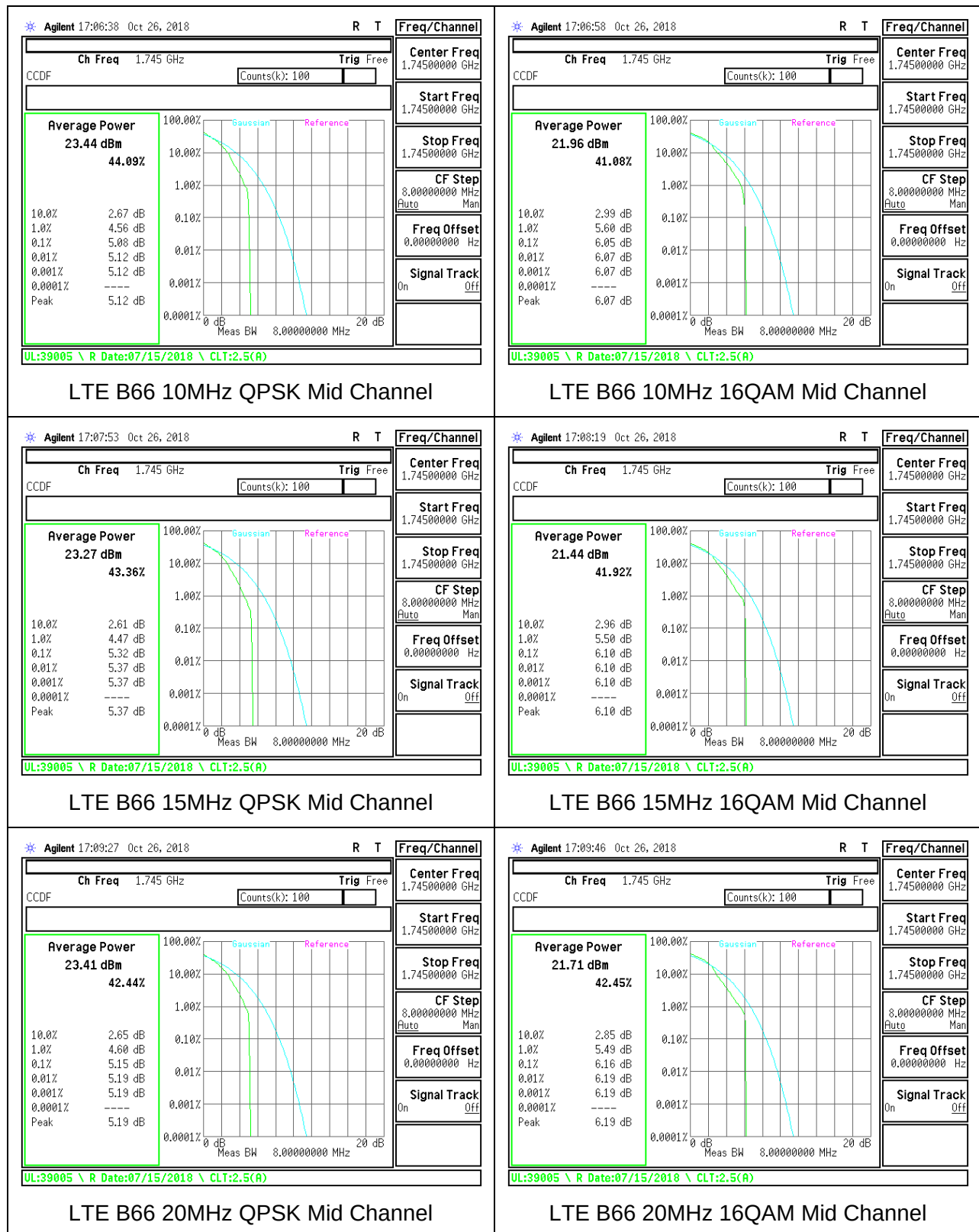
9.5.12. LTE BAND 41





9.5.13. LTE BAND 66





10. RADIATED TEST RESULTS

10.1. EFFECTIVE RADIATED POWER ERP/EIRP

RULE PART(S)

FCC: §2.1053, §22.917, §24.238, §27.53 and §90.691

LIMITS

22.913(a) - The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.

24.232(c) - Mobile/portable stations are limited to 2 watts e.i.r.p. peak power and the equipment must employ means to limit the power to the minimum necessary for successful communications.

27.50(c) - (10) Portable stations (hand-held devices) are limited to 3 watts ERP; (LTE B12)

27.50(d) - (4) Fixed, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watt EIRP.(Band 66)

In addition, when the transmitter power is measured in terms of average value, the peak-to-average ratio of the power shall not exceed 13dB.

TEST PROCEDURE

ANSI / TIA / EIA 603C Clause 2.2.17; PSA setting reference to 971168 D01 v02r02

For peak power measurement with a PSA:

a) Set the RBW $\geq$ OBW; b) Set VBW $\geq 3 \times$ RBW; c) Set span $\geq 2 \times$ RBW; d) Sweep time = auto couple; e) Detector = peak; f) Ensure that the number of measurement points $\geq$ span/RBW; g) Trace mode = max hold;

For average power measurement with a PSA:

a) Set span to at least 1.5 times the OBW; b) Set RBW = 1-5% of the OBW, not to exceed 1 MHz; c) Set VBW $\geq 3 \times$ RBW; d) Set number of points in sweep $\geq 2 \times$ span / RBW; e) Sweep time = auto-couple; f) Detector = RMS (power averaging); g) Use free run trigger If burst duty cycle ≥ 98 ; h) Use trigger to capture bursts If burst duty cycle < 98 ; i) Trace average at least 100 traces in power averaging (i.e., RMS) mode. j) Compute the power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function.

MODES TESTED

GSM, WCDMA, and LTE

Note: This testing was performed to confirm that the measured radiated powers were consistent with the calculated ERP/EIRP test data given device-to-device variations in output power and the measurement uncertainties associated with the radiated tests. Measured ERP/EIRP test results are for reference only. Please refer to Section 5.2 for the final ERP/EIRP results.

TEST RESULTS

GSM

Band	Mode	Channel	f(MHz)	ERP/EIRP	
				dBm	mW
GSM 850	GPRS	128	824.2	29.83	961.61
		190	836.6	30.61	1150.80
		251	848.8	30.58	1142.88
	EGPRS	128	824.2	27.32	539.51
		190	836.6	26.63	460.26
		251	848.8	26.89	488.65
GSM 1900	GPRS	512	1850.2	30.52	1127.20
		661	1880.0	29.65	922.57
		810	1909.8	29.49	889.20
	EGPRS	512	1850.2	27.19	523.60
		661	1880.0	26.88	487.53
		810	1909.8	27.01	502.34

WCDMA

Band	Mode	Channel	f(MHz)	ERP/EIRP	
				dBm	mW
Band 2	REL99	9262	1852.4	22.87	193.64
		9400	1880	24.52	283.14
		9538	1907.6	22.76	188.80
	HSDPA	9262	1852.4	24.51	282.49
		9400	1880.0	25.12	325.09
		9538	1907.6	24.10	257.04
Band 5	REL99	4132	826.4	17.92	61.94
		4183	836.6	19.88	97.27
		4233	846.6	18.40	69.18
	HSDPA	4132	826.4	17.00	50.12
		4183	836.6	17.06	50.82
		4233	846.6	18.16	65.46
Band 4	REL99	1312	1712.4	24.95	312.61
		1413	1732.6	25.43	349.14
		1513	1752.6	25.95	393.55
	HSDPA	1312	1712.4	25.49	354.00
		1413	1732.6	25.69	370.68
		1513	1752.6	26.36	432.51

LTE Band 2

BW (MHz)	Mode	RB/RB Size	f(MHz)	EIRP	
				dBm	mW
20	QPSK	1/0	1860	25.61	363.92
		1/0	1880	25.91	389.94
		1/0	1900	24.59	287.74
	16QAM	1/0	1860	24.21	263.63
		1/0	1880	24.38	274.16
		1/0	1900	23.05	201.84
15	QPSK	1/0	1857.5	24.70	295.12
		1/0	1880	25.90	389.05
		1/0	1902.5	24.81	302.69
5	16QAM	1/0	1852.5	24.32	270.40
		1/0	1880	24.10	257.04
		1/0	1907.5	22.23	167.11

LTE Band 4

BW (MHz)	Mode	RB/RB Size	f(MHz)	EIRP	
				dBm	mW
20	QPSK	1/0	1720	24.21	263.63
		1/0	1732.5	24.99	315.50
		1/0	1745	25.29	338.06
	16QAM	1/0	1720	23.60	229.09
		1/0	1732.5	23.25	211.35
		1/0	1745	23.59	228.56
3	QPSK	1/0	1711.5	24.89	308.32
		1/0	1732.5	25.03	318.42
		1/0	1753.5	25.93	391.74
3	16QAM	1/0	1711.5	23.27	212.32
		1/0	1732.5	23.41	219.28
		1/0	1753.5	24.19	262.42

LTE Band 5

BW (MHz)	Mode	RB/RB Size	f(MHz)	ERP	
				dBm	mW
10	QPSK	1/0	829	20.47	111.43
		1/0	836.5	21.12	129.42
		1/0	844	22.16	164.44
	16QAM	1/0	829	18.22	66.37
		1/0	836.5	18.96	78.70
		1/0	844	19.84	96.38
3	QPSK	1/0	825.5	20.73	118.30
		1/0	836.5	21.40	138.04
		1/0	847.5	21.82	152.05
	16QAM	1/0	825.5	18.37	68.71
		1/0	836.5	19.20	83.18
		1/0	847.5	19.74	94.19

LTE Band 12

BW (MHz)	Mode	RB/RB Size	f(MHz)	ERP	
				dBm	mW
10	QPSK	1/0	704	18.07	64.12
		1/0	707.5	18.42	69.50
		1/0	711	18.53	71.29
	16QAM	1/0	704	16.34	43.05
		1/0	707.5	16.77	47.53
		1/0	711	16.85	48.42
5	QPSK	1/0	701.5	17.95	62.37
		1/0	707.5	18.62	72.78
		1/0	713.5	18.29	67.45
	16QAM	1/0	701.5	16.14	41.11
		1/0	707.5	16.89	48.87
		1/0	713.5	16.51	44.77

LTE Band 13

BW (MHz)	Mode	RB/RB Size	f(MHz)	ERP	
				dBm	mW
10	QPSK	1/0	782	18.17	65.61
	16QAM	1/0	782	16.06	40.36
5	QPSK	1/0	779.5	18.32	67.92
		1/0	782	18.40	69.18
		1/0	784.5	18.46	70.15
	16QAM	1/0	779.5	16.10	40.74
		1/0	782	16.24	42.07
		1/0	784.5	16.26	42.27

LTE Band 17

BW (MHz)	Mode	RB/RB Size	f(MHz)	ERP	
				dBm	mW
10	QPSK	1/0	709	17.97	62.66
		1/0	710	18.45	69.98
		1/0	711	18.69	73.96
	16QAM	1/0	709	16.44	44.06
		1/0	710	16.55	45.19
		1/0	711	16.47	44.36
5	QPSK	1/0	706.5	18.27	67.14
		1/0	710	18.32	67.92
		1/0	713.5	18.56	71.78
	16QAM	1/0	706.5	16.62	45.92
		1/0	710	16.60	45.71
		1/0	713.5	17.00	50.12

LTE Band 25

BW (MHz)	Mode	RB/RB Size	f(MHz)	EIRP	
				dBm	mW
20	QPSK	1/0	1860	22.27	168.66
		1/0	1882.5	23.56	226.99
		1/0	1905	23.85	242.66
	16QAM	1/0	1860	20.54	113.24
		1/0	1882.5	21.76	149.97
		1/0	1905	22.25	167.88
3	QPSK	1/0	1851.5	22.79	190.11
		1/0	1882.5	24.18	261.82
		1/0	1913.5	22.70	186.21
5	16QAM	1/0	1852.5	21.89	154.53
		1/0	1882.5	21.08	128.23
		1/0	1912.5	22.01	158.85

LTE Band 26 (FCC PART 90S)

BW (MHz)	Mode	RB/RB Size	f(MHz)	ERP	
				dBm	mW
15	QPSK	1/0	821.5	19.71	93.54
	16QAM	1/0	821.5	18.58	72.11
10	QPSK	1/0	819	20.16	103.75
	16QAM	1/0	819	18.46	70.15

LTE Band 26 (FCC PART 22)

BW (MHz)	Mode	RB/RB Size	f(MHz)	ERP	
				dBm	mW
15	QPSK	1/0	831.5	19.23	83.75
		1/0	836.5	19.22	83.56
		1/0	841.5	18.83	76.38
	16QAM	1/0	831.5	17.54	56.75
		1/0	836.5	17.14	51.76
		1/0	841.5	17.50	56.23
1.4	QPSK	1/0	814.7	20.17	103.99
		1/0	831.5	19.60	91.20
		1/0	848.3	19.33	85.70
3	16QAM	1/0	815.5	18.15	65.31
		1/0	831.5	17.47	55.85
		1/0	847.5	17.40	54.95

LTE Band 41

BW (MHz)	Mode	RB/RB Size	f(MHz)	EIRP	
				dBm	mW
20	QPSK	1/0	2506	23.42	219.79
		1/0	2593	20.39	109.40
		1/0	2680	22.44	175.39
	16QAM	1/0	2506	21.36	136.77
		1/0	2593	19.33	85.70
		1/0	2680	21.35	136.46
15	QPSK	1/0	2503.5	24.02	252.35
		1/0	2593	21.56	143.22
		1/0	2682.5	23.11	204.64
15	16QAM	1/0	2503.5	21.90	154.88
		1/0	2593	19.82	95.94
		1/0	2682.5	21.76	149.97

LTE Band 66

BW (MHz)	Mode	RB/RB Size	f(MHz)	EIRP	
				dBm	mW
20	QPSK	1/0	1720	22.78	189.67
		1/0	1745	22.35	171.79
		1/0	1770	23.63	230.67
	16QAM	1/0	1720	21.10	128.82
		1/0	1745	20.74	118.58
		1/0	1770	21.94	156.31
3	QPSK	1/0	1711.5	20.30	107.15
		1/0	1745	22.61	182.39
		1/0	1778.5	22.30	169.82
15	16QAM	1/0	1717.5	20.76	119.12
		1/0	1745	21.83	152.41
		1/0	1772.5	21.61	144.88

10.1.1. GSM

GPRS 850									EGPRS 850								
UL Verification Services, Inc. High Frequency Substitution Measurement Company: Lions Project #: 12563734 Date: 11/23/2018 Test Engineer: 43575 OS Configuration: EUT Only Location: Chamber B Mode: GPRS 850 MHz Fundamentals Test Equipment: Receiving: Hybrid T407, and Chamber B SMA Cables Substitution: Dipole T416, Chamber B Passthrough Cables									UL Verification Services, Inc. High Frequency Substitution Measurement Company: Lions Project #: 12563734 Date: 11/23/2018 Test Engineer: 43575 OS Configuration: EUT Only Location: Chamber B Mode: EGPRS 850 MHz Fundamentals Test Equipment: Receiving: Hybrid T407, and Chamber B SMA Cables Substitution: Dipole T416, Chamber B Passthrough Cables								
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch									Low Ch								
824.20	27.92	V	2.9	0.1	25.07	38.5	-13.4		824.20	23.58	V	2.9	0.1	20.82	38.5	-17.7	
824.20	32.49	H	2.9	0.2	29.83	38.5	-8.7		824.20	29.98	H	2.9	0.2	27.32	38.5	-11.2	
Mid Ch									Mid Ch								
836.60	26.86	V	2.9	0.1	24.02	38.5	-14.5		836.60	23.87	V	2.9	0.1	21.03	38.5	-17.5	
836.60	33.35	H	2.9	0.2	30.61	38.5	-7.9		836.60	29.37	H	2.9	0.2	26.63	38.5	-11.9	
High Ch									High Ch								
848.80	27.84	V	2.9	0.0	24.94	38.5	-13.6		848.80	23.63	V	2.9	0.0	20.73	38.5	-17.8	
848.80	33.38	H	2.9	0.1	30.58	38.5	-7.9		848.80	29.69	H	2.9	0.1	26.89	38.5	-11.6	

GPRS 1900									EGPRS 1900								
UL Verification Services, Inc. High Frequency Substitution Measurement Company: Lions Project #: 12563734 Date: 11/21/2018 Test Engineer: 19480 BS Configuration: EUT Only Location: Chamber B Mode: GPRS 1900 MHz Fundamentals Test Equipment: Receiving: Horn T863, and Chamber B SMA Cables Substitution: Horn T60, Chamber B Passthrough Cables									UL Verification Services, Inc. High Frequency Substitution Measurement Company: Lions Project #: 12563734 Date: 11/21/2018 Test Engineer: 19480 BS Configuration: EUT Only Location: Chamber B Mode: EGPRS 1900 MHz Fundamentals Test Equipment: Receiving: Horn T863, and Chamber B SMA Cables Substitution: Horn T60, Chamber B Passthrough Cables								
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch									Low Ch								
1850.20	25.62	V	4.4	9.3	30.52	33.0	-2.5		1850.20	22.29	V	4.4	9.3	27.19	33.0	-5.8	
1850.20	16.14	H	4.4	9.3	21.04	33.0	-12.0		1850.20	18.64	H	4.4	9.3	23.54	33.0	-9.5	
Mid Ch									Mid Ch								
1880.00	25.02	V	4.4	9.1	29.65	33.0	-3.4		1880.00	22.26	V	4.4	9.1	26.88	33.0	-6.1	
1880.00	19.32	H	4.4	9.1	23.95	33.0	-9.0		1880.00	13.62	H	4.4	9.1	18.25	33.0	-14.8	
High Ch									High Ch								
1909.80	25.12	V	4.5	8.8	29.49	33.0	-3.5		1909.80	22.64	V	4.5	8.8	27.01	33.0	-6.0	
1909.80	14.47	H	4.5	8.8	18.84	33.0	-14.2		1909.80	17.58	H	4.5	8.8	21.95	33.0	-11.0	

10.1.2. WCDMA

B2 REL99									B2 HSDPA								
UL Verification Services, Inc. High Frequency Substitution Measurement Company: Lions Project #: 12563734 Date: 10/30/2018 Test Engineer: 19480 BS Configuration: EUT Only Location: Chamber B Mode: Rel99 Band 2 Fundamentals Test Equipment: Receiving: Horn T863, and Chamber B SMA Cables Substitution: Horn T60, Chamber B Passthrough Cables									UL Verification Services, Inc. High Frequency Substitution Measurement Company: Lions Project #: 12563734 Date: 10/30/2018 Test Engineer: 19480 BS Configuration: EUT Only Location: Chamber B Mode: HSDPA Band 2 Fundamentals Test Equipment: Receiving: Horn T863, and Chamber B SMA Cables Substitution: Horn T60, Chamber B Passthrough Cables								
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch									Low Ch								
1852.40	18.69	V	5.1	9.3	22.87	33.0	-10.1		1852.40	20.33	V	5.1	9.3	24.51	33.0	-8.5	
1852.40	13.49	H	5.1	9.3	17.67	33.0	-15.3		1852.40	14.77	H	5.1	9.3	18.95	33.0	-14.0	
Mid Ch									Mid Ch								
1880.00	20.59	V	5.1	9.1	24.52	33.0	-8.5		1880.00	21.19	V	5.1	9.1	25.12	33.0	-7.9	
1880.00	8.40	H	5.1	9.1	12.33	33.0	-20.7		1880.00	15.10	H	5.1	9.1	19.03	33.0	-14.0	
High Ch									High Ch								
1907.60	19.06	V	5.2	8.9	22.76	33.0	-10.2		1907.60	20.40	V	5.2	8.9	24.10	33.0	-8.9	
1907.60	12.61	H	5.2	8.9	16.31	33.0	-16.7		1907.60	10.46	H	5.2	8.9	14.16	33.0	-18.8	

B5 REL99									B5 HSDPA								
UL Verification Services, Inc. High Frequency Substitution Measurement Company: Lions Project #: 12563734 Date: 11/23/2018 Test Engineer: 43575 OS Configuration: EUT Only Location: Chamber B Mode: Rel99 Band 5 Fundamentals Test Equipment: Receiving: Hybrid T407, and Chamber B SMA Cables Substitution: Dipole T416, Chamber B Passthrough Cables									UL Verification Services, Inc. High Frequency Substitution Measurement Company: Lions Project #: 12563734 Date: 11/23/2018 Test Engineer: 43575 OS Configuration: EUT Only Location: Chamber B Mode: HSDPA Band 5 Fundamentals Test Equipment: Receiving: Hybrid T407, and Chamber B SMA Cables Substitution: Dipole T416, Chamber B Passthrough Cables								
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch									Low Ch								
826.40	16.56	V	2.9	0.1	13.79	38.5	-24.7		826.40	13.12	V	2.9	0.1	10.34	38.5	-28.2	
826.40	20.60	H	2.9	0.2	17.92	38.5	-20.6		826.40	19.68	H	2.9	0.2	17.00	38.5	-21.5	
Mid Ch									Mid Ch								
836.60	16.20	V	2.9	0.1	13.36	38.5	-25.1		836.60	14.83	V	2.9	0.1	11.99	38.5	-26.5	
836.60	22.62	H	2.9	0.2	19.88	38.5	-18.6		836.60	19.81	H	2.9	0.2	17.06	38.5	-21.4	
High Ch									High Ch								
846.80	13.74	V	2.9	0.0	10.85	38.5	-27.7		846.80	12.14	V	2.9	0.0	9.25	38.5	-29.2	
846.80	21.19	H	2.9	0.1	18.40	38.5	-20.1		846.80	20.94	H	2.9	0.1	18.16	38.5	-20.3	

B4 REL99									B4 HSDPA								
UL Verification Services, Inc. High Frequency Substitution Measurement Company: Lions Project #: 12563734 Date: 10/30/2018 Test Engineer: 19480 BS Configuration: EUT Only Location: Chamber B Mode: Rel99 Band 4 Fundamentals Test Equipment: Receiving: Horn T863, and Chamber B SMA Cables Substitution: Horn T60, Chamber B Passthrough Cables									UL Verification Services, Inc. High Frequency Substitution Measurement Company: Lions Project #: 12563734 Date: 10/30/2018 Test Engineer: 19480 BS Configuration: EUT Only Location: Chamber B Mode: HSDPA Band 4 Fundamentals Test Equipment: Receiving: Horn T863, and Chamber B SMA Cables Substitution: Horn T60, Chamber B Passthrough Cables								
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch									Low Ch								
1712.40	21.44	V	4.9	8.4	24.95	30.0	-5.1		1712.40	21.98	V	4.9	8.4	25.49	30.0	-4.5	
1712.40	16.22	H	4.9	8.4	19.72	30.0	-10.3		1712.40	15.63	H	4.9	8.4	19.14	30.0	-10.9	
Mid Ch									Mid Ch								
1732.60	21.64	V	4.9	8.7	25.43	30.0	-4.6		1732.60	21.90	V	4.9	8.7	25.69	30.0	-4.3	
1732.60	16.12	H	4.9	8.7	19.90	30.0	-10.1		1732.60	17.10	H	4.9	8.7	20.89	30.0	-9.1	
High Ch									High Ch								
1752.60	21.87	V	4.9	9.0	25.95	30.0	-4.1		1752.60	22.29	V	4.9	9.0	26.36	30.0	-3.6	
1752.60	15.38	H	4.9	9.0	19.45	30.0	-10.5		1752.60	16.41	H	4.9	9.0	20.48	30.0	-9.5	

10.1.3. LTE Band 2

20MHz QPSK									20MHz 16QAM								
UL Verification Services, Inc. High Frequency Substitution Measurement Company: Lions Project #: 12563734 Date: 11/19/2018 Test Engineer: 19480 BS Configuration: EUT Only Location: Chamber B Mode: LTE_QPSK Band 2 Fundamentals, 20MHz Bandwidth Test Equipment: Receiving: Horn T863, and Chamber B SMA Cables Substitution: Horn T60, Chamber B Passthrough Cables									UL Verification Services, Inc. High Frequency Substitution Measurement Company: Lions Project #: 12563734 Date: 11/19/2018 Test Engineer: 19480 BS Configuration: EUT Only Location: Chamber B Mode: LTE_16QAM Band 2 Fundamentals, 20MHz Bandwidth Test Equipment: Receiving: Horn T863, and Chamber B SMA Cables Substitution: Horn T60, Chamber B Passthrough Cables								
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch									Low Ch								
1860.00	20.80	V	4.4	9.2	25.61	33.0	-7.4		1860.00	19.40	V	4.4	9.2	24.21	33.0	-8.8	
1860.00	12.22	H	4.4	9.2	17.03	33.0	-16.0		1860.00	10.82	H	4.4	9.2	15.63	33.0	-17.4	
Mid Ch									Mid Ch								
1880.00	21.28	V	4.4	9.1	25.91	33.0	-7.1		1880.00	19.75	V	4.4	9.1	24.38	33.0	-8.6	
1880.00	11.84	H	4.4	9.1	16.47	33.0	-16.5		1880.00	10.19	H	4.4	9.1	14.82	33.0	-18.2	
High Ch									High Ch								
1900.00	20.15	V	4.5	8.9	24.59	33.0	-8.4		1900.00	18.61	V	4.5	8.9	23.05	33.0	-9.9	
1900.00	11.61	H	4.5	8.9	16.05	33.0	-17.0		1900.00	9.98	H	4.5	8.9	14.42	33.0	-18.6	

10.1.4. LTE Band 4

20MHz QPSK									20MHz 16QAM								
UL Verification Services, Inc. High Frequency Substitution Measurement Company: Lions Project #: 12563734 Date: 11/19/2018 Test Engineer: 19480 BS Configuration: EUT Only Location: Chamber B Mode: LTE_QPSK Band 4 Fundamentals, 20MHz Bandwidth Test Equipment: Receiving: Horn T863, and Chamber B SMA Cables Substitution: Horn T60, Chamber B Passthrough Cables									UL Verification Services, Inc. High Frequency Substitution Measurement Company: Lions Project #: 12563734 Date: 11/19/2018 Test Engineer: 19480 BS Configuration: EUT Only Location: Chamber B Mode: LTE_16QAM Band 4 Fundamentals, 20MHz Bandwidth Test Equipment: Receiving: Horn T863, and Chamber B SMA Cables Substitution: Horn T60, Chamber B Passthrough Cables								
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch									Low Ch								
1720.00	19.88	V	4.2	8.5	24.21	30.0	-5.8		1720.00	19.27	V	4.2	8.5	23.60	30.0	-6.4	
1720.00	15.54	H	4.2	8.5	19.87	30.0	-10.1		1720.00	13.71	H	4.2	8.5	18.04	30.0	-12.0	
Mid Ch									Mid Ch								
1732.50	20.51	V	4.2	8.7	24.99	30.0	-5.0		1732.50	18.77	V	4.2	8.7	23.25	30.0	-6.7	
1732.50	13.93	H	4.2	8.7	18.41	30.0	-11.6		1732.50	12.15	H	4.2	8.7	16.63	30.0	-13.4	
High Ch									High Ch								
1745.00	20.63	V	4.2	8.9	25.29	30.0	-4.7		1745.00	18.93	V	4.2	8.9	23.59	30.0	-6.4	
1745.00	14.73	H	4.2	8.9	19.38	30.0	-10.6		1745.00	13.10	H	4.2	8.9	17.75	30.0	-12.2	

10.1.5. LTE Band 13

3MHz QPSK									3MHz 16QAM								
UL Verification Services, Inc. High Frequency Substitution Measurement Company: Lions Project #: 12563734 Date: 11/19/2018 Test Engineer: 19480 BS Configuration: EUT Only Location: Chamber B Mode: LTE_QPSK Band 4 Fundamentals, 3MHz Bandwidth Test Equipment: Receiving: Horn T863, and Chamber B SMA Cables Substitution: Horn T60, Chamber B Passthrough Cables									UL Verification Services, Inc. High Frequency Substitution Measurement Company: Lions Project #: 12563734 Date: 11/19/2018 Test Engineer: 19480 BS Configuration: EUT Only Location: Chamber B Mode: LTE_16QAM Band 4 Fundamentals, 3MHz Bandwidth Test Equipment: Receiving: Horn T863, and Chamber B SMA Cables Substitution: Horn T60, Chamber B Passthrough Cables								
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch									Low Ch								
1711.50	20.69	V	4.2	8.4	24.89	30.0	-5.1		1711.50	19.07	V	4.2	8.4	23.27	30.0	-6.7	
1711.50	14.74	H	4.2	8.4	18.94	30.0	-11.1		1711.50	13.13	H	4.2	8.4	17.33	30.0	-12.7	
Mid Ch									Mid Ch								
1732.50	20.55	V	4.2	8.7	25.03	30.0	-5.0		1732.50	18.93	V	4.2	8.7	23.41	30.0	-6.6	
1732.50	12.90	H	4.2	8.7	17.38	30.0	-12.6		1732.50	11.21	H	4.2	8.7	15.69	30.0	-14.3	
High Ch									High Ch								
1753.50	21.14	V	4.2	9.0	25.93	30.0	-4.1		1753.50	19.40	V	4.2	9.0	24.19	30.0	-5.8	
1753.50	13.82	H	4.2	9.0	18.60	30.0	-11.4		1753.50	12.09	H	4.2	9.0	16.87	30.0	-13.1	

10.1.5. LTE Band 5

10MHz QPSK									10MHz 16QAM								
UL Verification Services, Inc. High Frequency Substitution Measurement Company: Lions Project #: 12563734 Date: 11/23/2018 Test Engineer: 43575 OS Configuration: EUT Only Location: Chamber B Mode: LTE_QPSK Band 5 Fundamentals, 10MHz Bandwidth Test Equipment: Receiving: Hybrid T407, and Chamber B SMA Cables Substitution: Dipole T416, Chamber B Passthrough Cables									UL Verification Services, Inc. High Frequency Substitution Measurement Company: Lions Project #: 12563734 Date: 11/23/2018 Test Engineer: 43575 OS Configuration: EUT Only Location: Chamber B Mode: LTE_16QAM Band 5 Fundamentals, 10MHz Bandwidth Test Equipment: Receiving: Hybrid T407, and Chamber B SMA Cables Substitution: Dipole T416, Chamber B Passthrough Cables								
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch									Low Ch								
829.00	18.60	V	2.9	0.1	15.81	38.5	-22.7		829.00	16.39	V	2.9	0.1	13.60	38.5	-24.9	
829.00	23.16	H	2.9	0.2	20.47	38.5	-18.0		829.00	20.91	H	2.9	0.2	18.22	38.5	-20.3	
Mid Ch									Mid Ch								
836.50	17.44	V	2.9	0.1	14.59	38.5	-23.9		836.50	15.23	V	2.9	0.1	12.38	38.5	-26.1	
836.50	23.87	H	2.9	0.2	21.12	38.5	-17.4		836.50	21.71	H	2.9	0.2	18.96	38.5	-19.5	
High Ch									High Ch								
844.00	17.85	V	2.9	0.0	14.98	38.5	-23.5		844.00	15.74	V	2.9	0.0	12.87	38.5	-25.6	
844.00	24.92	H	2.9	0.1	22.16	38.5	-16.3		844.00	22.60	H	2.9	0.1	19.84	38.5	-18.7	

3MHz QPSK									3MHz 16QAM								
UL Verification Services, Inc. High Frequency Substitution Measurement Company: Lions Project #: 12563734 Date: 11/23/2018 Test Engineer: 43575 OS Configuration: EUT Only Location: Chamber B Mode: LTE_QPSK Band 5 Fundamentals, 3MHz Bandwidth Test Equipment: Receiving: Hybrid T407, and Chamber B SMA Cables Substitution: Dipole T416, Chamber B Passthrough Cables									UL Verification Services, Inc. High Frequency Substitution Measurement Company: Lions Project #: 12563734 Date: 11/23/2018 Test Engineer: 43575 OS Configuration: EUT Only Location: Chamber B Mode: LTE_16QAM Band 5 Fundamentals, 3MHz Bandwidth Test Equipment: Receiving: Hybrid T407, and Chamber B SMA Cables Substitution: Dipole T416, Chamber B Passthrough Cables								
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch									Low Ch								
825.50	15.47	V	2.9	0.1	12.70	38.5	-25.8		825.50	14.65	V	2.9	0.1	11.88	38.5	-26.6	
825.50	23.40	H	2.9	0.2	20.73	38.5	-17.8		825.50	21.04	H	2.9	0.2	18.37	38.5	-20.1	
Mid Ch									Mid Ch								
836.50	18.01	V	2.9	0.1	15.16	38.5	-23.3		836.50	15.84	V	2.9	0.1	12.99	38.5	-25.5	
836.50	24.15	H	2.9	0.2	21.40	38.5	-17.1		836.50	21.95	H	2.9	0.2	19.20	38.5	-19.3	
High Ch									High Ch								
847.50	17.48	V	2.9	0.0	14.58	38.5	-23.9		847.50	15.15	V	2.9	0.0	12.25	38.5	-26.2	
847.50	24.61	H	2.9	0.1	21.82	38.5	-16.7		847.50	22.53	H	2.9	0.1	19.74	38.5	-18.8	

10.1.6. LTE Band 12

10MHz QPSK									10MHz 16QAM								
UL Verification Services, Inc. High Frequency Substitution Measurement Company: Lions Project #: 12563734 Date: 11/23/2018 Test Engineer: 43575 OS Configuration: EUT Only Location: Chamber B Mode: LTE_QPSK Band 12 Fundamentals, 10MHz Bandwidth Test Equipment: Receiving: Hybrid T407, and Chamber B SMA Cables Substitution: Dipole T416, Chamber B Passthrough Cables									UL Verification Services, Inc. High Frequency Substitution Measurement Company: Lions Project #: 12563734 Date: 11/23/2018 Test Engineer: 43575 OS Configuration: EUT Only Location: Chamber B Mode: LTE_16QAM Band 12 Fundamentals, 10MHz Bandwidth Test Equipment: Receiving: Hybrid T407, and Chamber B SMA Cables Substitution: Dipole T416, Chamber B Passthrough Cables								
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch									Low Ch								
704.00	16.11	V	2.6	1.2	8.65	34.8	-26.2		704.00	8.49	V	2.6	1.2	7.03	34.8	-27.8	
704.00	19.14	H	2.6	1.6	18.07	34.8	-16.7		704.00	17.41	H	2.6	1.6	16.34	34.8	-18.5	
Mid Ch									Mid Ch								
707.50	10.63	V	2.7	1.1	9.12	34.8	-25.7		707.50	8.96	V	2.7	1.1	7.45	34.8	-27.4	
707.50	19.57	H	2.7	1.5	18.42	34.8	-16.4		707.50	17.92	H	2.7	1.5	16.77	34.8	-18.0	
High Ch									High Ch								
711.00	10.99	V	2.6	1.1	9.45	34.8	-25.3		711.00	9.28	V	2.6	1.1	7.74	34.8	-27.1	
711.00	19.71	H	2.6	1.5	18.53	34.8	-16.3		711.00	18.03	H	2.6	1.5	16.85	34.8	-17.9	

5MHz QPSK									5MHz 16QAM								
UL Verification Services, Inc. High Frequency Substitution Measurement Company: Lions Project #: 12563734 Date: 11/23/2018 Test Engineer: 43575 OS Configuration: EUT Only Location: Chamber B Mode: LTE_QPSK Band 12 Fundamentals, 5MHz Bandwidth Test Equipment: Receiving: Hybrid T407, and Chamber B SMA Cables Substitution: Dipole T416, Chamber B Passthrough Cables									UL Verification Services, Inc. High Frequency Substitution Measurement Company: Lions Project #: 12563734 Date: 11/23/2018 Test Engineer: 43575 OS Configuration: EUT Only Location: Chamber B Mode: LTE_16QAM Band 12 Fundamentals, 5MHz Bandwidth Test Equipment: Receiving: Hybrid T407, and Chamber B SMA Cables Substitution: Dipole T416, Chamber B Passthrough Cables								
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch									Low Ch								
701.50	6.78	V	2.6	1.2	5.34	34.8	-29.5		701.50	4.84	V	2.6	1.2	3.40	34.8	-31.4	
701.50	18.99	H	2.6	1.6	17.95	34.8	-16.9		701.50	17.18	H	2.6	1.6	16.14	34.8	-18.7	
Mid Ch									Mid Ch								
707.50	8.12	V	2.7	1.1	6.61	34.8	-28.2		707.50	6.83	V	2.7	1.1	5.32	34.8	-29.5	
707.50	19.77	H	2.7	1.5	18.62	34.8	-16.2		707.50	18.04	H	2.7	1.5	16.89	34.8	-17.9	
High Ch									High Ch								
713.50	12.17	V	2.6	1.1	10.61	34.8	-24.2		713.50	8.94	V	2.6	1.1	7.38	34.8	-27.4	
713.50	19.90	H	2.6	1.4	18.29	34.8	-16.5		713.50	17.72	H	2.6	1.4	16.51	34.8	-18.3	

10.1.7. LTE Band 13

10MHz QPSK									10MHz 16QAM								
UL Verification Services, Inc. High Frequency Substitution Measurement Company: Lions Project #: 12563734 Date: 11/23/2018 Test Engineer: 43575 OS Configuration: EUT Only Location: Chamber B Mode: LTE_QPSK Band 13 Fundamentals, 10MHz Bandwidth Test Equipment: Receiving: Hybrid T407, and Chamber B SMA Cables Substitution: Dipole T416, Chamber B Passthrough Cables									UL Verification Services, Inc. High Frequency Substitution Measurement Company: Lions Project #: 12563734 Date: 11/23/2018 Test Engineer: 43575 OS Configuration: EUT Only Location: Chamber B Mode: LTE_16QAM Band 13 Fundamentals, 10MHz Bandwidth Test Equipment: Receiving: Hybrid T407, and Chamber B SMA Cables Substitution: Dipole T416, Chamber B Passthrough Cables								
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch									Low Ch								
782.00	0.00	V	2.8	0.3	0.00	34.8	0.0		782.00	0.00	V	2.8	0.3	0.00	34.8	0.0	
782.00	0.00	H	2.8	0.5	0.00	34.8	0.0		782.00	0.00	H	2.8	0.5	0.00	34.8	0.0	
Mid Ch									Mid Ch								
782.00	13.65	V	2.8	0.3	11.21	34.8	-23.6		782.00	11.56	V	2.8	0.3	9.12	34.8	-25.6	
782.00	20.47	H	2.8	0.5	18.17	34.8	-16.6		782.00	18.36	H	2.8	0.5	16.06	34.8	-18.7	
High Ch									High Ch								
782.00	0.00	V	2.8	0.3	0.00	34.8	0.0		782.00	0.00	V	2.8	0.3	0.00	34.8	0.0	
782.00	0.00	H	2.8	0.5	0.00	34.8	0.0		782.00	0.00	H	2.8	0.5	0.00	34.8	0.0	
5MHz QPSK UL Verification Services, Inc. High Frequency Substitution Measurement Company: Lions Project #: 12563734 Date: 11/24/2018 Test Engineer: 43575 OS Configuration: EUT Only Location: Chamber B Mode: LTE_QPSK Band 13 Fundamentals, 5MHz Bandwidth Test Equipment: Receiving: Hybrid T407, and Chamber B SMA Cables Substitution: Dipole T416, Chamber B Passthrough Cables									5MHz 16QAM UL Verification Services, Inc. High Frequency Substitution Measurement Company: Lions Project #: 12563734 Date: 11/23/2018 Test Engineer: 43575 OS Configuration: EUT Only Location: Chamber B Mode: LTE_16QAM Band 13 Fundamentals, 5MHz Bandwidth Test Equipment: Receiving: Hybrid T407, and Chamber B SMA Cables Substitution: Dipole T416, Chamber B Passthrough Cables								
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch									Low Ch								
779.50	13.76	V	2.8	0.4	11.35	34.8	-23.4		779.50	11.60	V	2.8	0.4	9.39	34.8	-25.4	
779.50	20.56	H	2.8	0.5	18.32	34.8	-16.5		779.50	18.34	H	2.8	0.5	16.10	34.8	-18.7	
Mid Ch									Mid Ch								
782.00	13.80	V	2.8	0.3	11.36	34.8	-23.4		782.00	11.71	V	2.8	0.3	9.27	34.8	-25.5	
782.00	20.70	H	2.8	0.5	18.40	34.8	-16.4		782.00	18.54	H	2.8	0.5	16.24	34.8	-18.5	
High Ch									High Ch								
784.50	13.42	V	2.8	0.3	10.95	34.8	-23.8		784.50	11.32	V	2.8	0.3	8.85	34.8	-25.9	
784.50	20.80	H	2.8	0.4	18.46	34.8	-16.3		784.50	18.60	H	2.8	0.4	16.26	34.8	-18.5	

10.1.8. LTE Band 17

10MHz QPSK									10MHz 16QAM								
UL Verification Services, Inc. High Frequency Substitution Measurement Company: Lions Project #: 12563734 Date: 11/24/2018 Test Engineer: 43575 OS Configuration: EUT Only Location: Chamber B Mode: LTE_QPSK Band 17 Fundamentals, 10MHz Bandwidth Test Equipment: Receiving: Hybrid T407, and Chamber B SMA Cables Substitution: Dipole T416, Chamber B Passthrough Cables									UL Verification Services, Inc. High Frequency Substitution Measurement Company: Lions Project #: 12563734 Date: 11/24/2018 Test Engineer: 43575 OS Configuration: EUT Only Location: Chamber B Mode: LTE_16QAM Band 17 Fundamentals, 10MHz Bandwidth Test Equipment: Receiving: Hybrid T407, and Chamber B SMA Cables Substitution: Dipole T416, Chamber B Passthrough Cables								
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch									Low Ch								
709.50	9.90	V	2.7	1.1	7.36	34.8	-27.4		709.50	6.69	V	2.7	1.1	4.55	34.8	-30.2	
709.50	19.14	H	2.7	1.5	17.97	34.8	-16.8		709.50	17.61	H	2.7	1.5	16.44	34.8	-18.3	
Mid Ch									Mid Ch								
710.00	9.57	V	2.7	1.1	8.03	34.8	-28.7		710.00	7.90	V	2.7	1.1	6.36	34.8	-28.4	
710.00	19.63	H	2.7	1.5	18.45	34.8	-16.3		710.00	17.73	H	2.7	1.5	16.55	34.8	-18.2	
High Ch									High Ch								
711.00	9.68	V	2.6	1.1	8.15	34.8	-26.6		711.00	8.18	V	2.6	1.1	6.65	34.8	-28.1	
711.00	19.87	H	2.6	1.5	18.69	34.8	-16.1		711.00	17.65	H	2.6	1.5	16.47	34.8	-18.3	
5MHz QPSK UL Verification Services, Inc. High Frequency Substitution Measurement Company: Lions Project #: 12563734 Date: 11/24/2018 Test Engineer: 43575 OS Configuration: EUT Only Location: Chamber B Mode: LTE_QPSK Band 17 Fundamentals, 5MHz Bandwidth Test Equipment: Receiving: Hybrid T407, and Chamber B SMA Cables Substitution: Dipole T416, Chamber B Passthrough Cables									5MHz 16QAM UL Verification Services, Inc. High Frequency Substitution Measurement Company: Lions Project #: 12563734 Date: 11/24/2018 Test Engineer: 43575 OS Configuration: EUT Only Location: Chamber B Mode: LTE_16QAM Band 17 Fundamentals, 5MHz Bandwidth Test Equipment: Receiving: Hybrid T407, and Chamber B SMA Cables Substitution: Dipole T416, Chamber B Passthrough Cables								
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch									Low Ch								
706.50	8.87	V	2.6	1.1	7.38	34.8	-27.4		706.50	6.73	V	2.6	1.1	5.24	34.8	-29.5	
706.50	19.38	H	2.6	1.5	18.27	34.8	-16.5		706.50	17.73	H	2.6	1.5	16.62	34.8	-18.2	
Mid Ch									Mid Ch								
710.00	9.50	V	2.7	1.1	7.96	34.8	-26.8		710.00	8.13	V	2.7	1.1	6.59	34.8	-28.2	
710.00	19.50	H	2.7	1.5	18.32	34.8	-16.5		710.00	17.78	H	2.7	1.5	16.60	34.8	-18.2	
High Ch									High Ch								
713.50	10.63	V	2.6	1.1	9.08	34.8	-25.7		713.50	8.89	V	2.6	1.1	7.34	34.8	-27.4	
713.50	19.77	H	2.6	1.4	18.56	34.8	-16.2		713.50	18.21	H	2.6	1.4	17.00	34.8	-17.8	

10.1.9. LTE Band 25

20MHz QPSK									20MHz 16QAM								
UL Verification Services, Inc. High Frequency Substitution Measurement Company: Lions Project #: 12563734 Date: 11/19/2018 Test Engineer: 19480 BS Configuration: EUT Only Location: Chamber B Mode: LTE_QPSK Band 25 Fundamentals, 20MHz Bandwidth Test Equipment: Receiving: Horn T863, and Chamber B SMA Cables Substitution: Horn T60, Chamber B Passthrough Cables									UL Verification Services, Inc. High Frequency Substitution Measurement Company: Lions Project #: 12563734 Date: 11/19/2018 Test Engineer: 19480 BS Configuration: EUT Only Location: Chamber B Mode: LTE_16QAM Band 25 Fundamentals, 20MHz Bandwidth Test Equipment: Receiving: Horn T863, and Chamber B SMA Cables Substitution: Horn T60, Chamber B Passthrough Cables								
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch									Low Ch								
1860.00	17.46	V	4.4	9.2	22.27	33.0	-10.7		1860.00	15.73	V	4.4	9.2	20.54	33.0	-12.5	
1860.00	11.72	H	4.4	9.2	16.53	33.0	-16.5		1860.00	9.91	H	4.4	9.2	14.72	33.0	-18.3	
Mid Ch									Mid Ch								
1882.50	18.95	V	4.4	9.0	23.56	33.0	-9.4		1882.50	17.15	V	4.4	9.0	21.76	33.0	-11.2	
1882.50	12.67	H	4.4	9.0	17.27	33.0	-15.7		1882.50	10.93	H	4.4	9.0	15.53	33.0	-17.5	
High Ch									High Ch								
1905.00	19.43	V	4.5	8.9	23.85	33.0	-9.2		1905.00	17.83	V	4.5	8.9	22.25	33.0	-10.8	
1905.00	12.08	H	4.5	8.9	16.50	33.0	-16.5		1905.00	10.44	H	4.5	8.9	14.86	33.0	-18.1	
3MHz QPSK									5MHz 16QAM								
UL Verification Services, Inc. High Frequency Substitution Measurement Company: Lions Project #: 12563734 Date: 11/19/2018 Test Engineer: 19480 BS Configuration: EUT Only Location: Chamber B Mode: LTE_QPSK Band 25 Fundamentals, 3MHz Bandwidth Test Equipment: Receiving: Horn T863, and Chamber B SMA Cables Substitution: Horn T60, Chamber B Passthrough Cables									UL Verification Services, Inc. High Frequency Substitution Measurement Company: Lions Project #: 12563734 Date: 11/20/2018 Test Engineer: 19480 BS Configuration: EUT Only Location: Chamber B Mode: LTE_16QAM Band 25 Fundamentals, 5MHz Bandwidth Test Equipment: Receiving: Horn T863, and Chamber B SMA Cables Substitution: Horn T60, Chamber B Passthrough Cables								
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch									Low Ch								
1851.50	17.90	V	4.4	9.3	22.79	33.0	-10.2		1852.50	17.02	V	4.4	9.3	21.89	33.0	-11.1	
1851.50	10.51	H	4.4	9.3	15.39	33.0	-17.6		1852.50	11.03	H	4.4	9.3	15.90	33.0	-17.1	
Mid Ch									Mid Ch								
1882.50	19.57	V	4.4	9.0	24.18	33.0	-8.8		1882.50	16.47	V	4.4	9.0	21.08	33.0	-11.9	
1882.50	9.52	H	4.4	9.0	14.12	33.0	-18.9		1882.50	9.22	H	4.4	9.0	13.82	33.0	-19.2	
High Ch									High Ch								
1913.50	18.34	V	4.5	8.8	22.70	33.0	-10.3		1912.50	17.65	V	4.5	8.8	22.01	33.0	-11.0	
1913.50	11.53	H	4.5	8.8	15.89	33.0	-17.1		1912.50	8.53	H	4.5	8.8	12.89	33.0	-20.1	