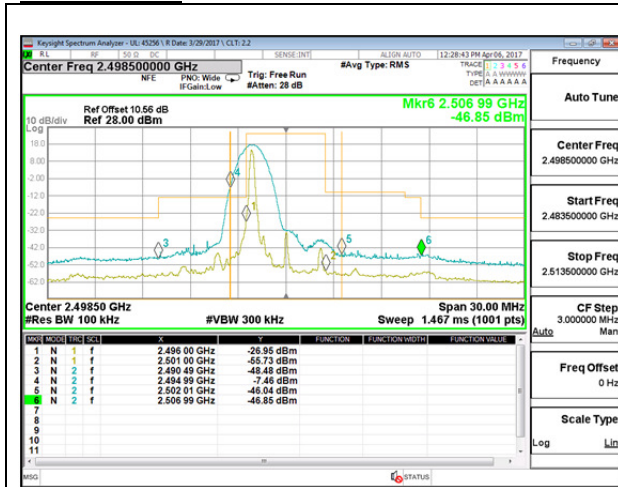
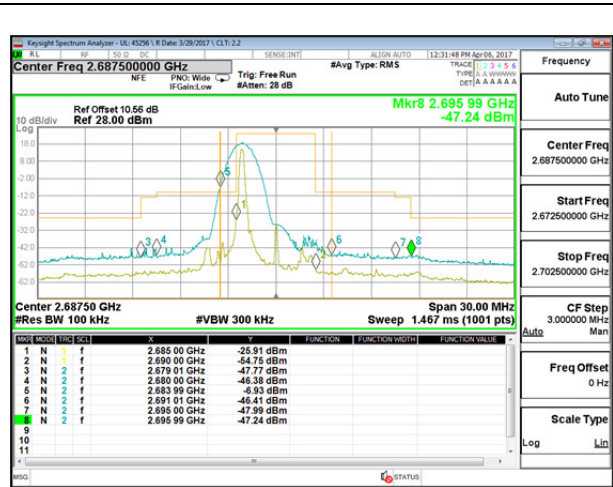


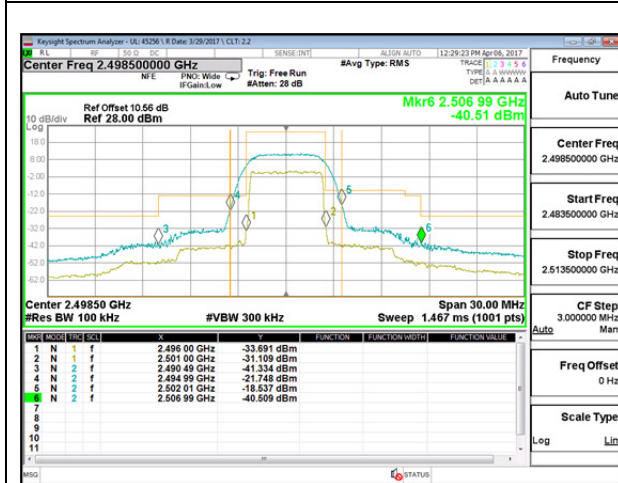
LTE Band 41



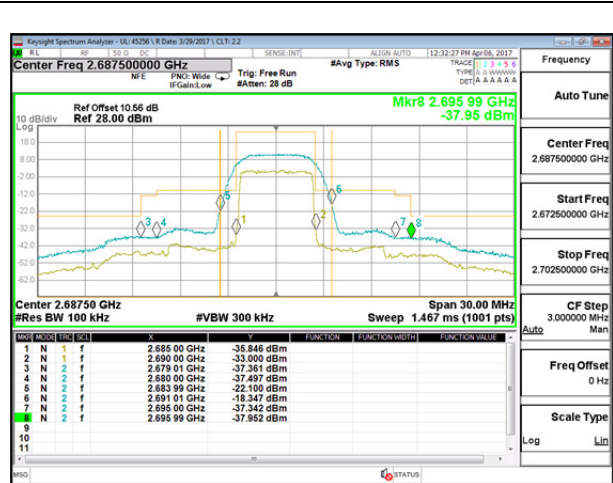
LTE B41 5MHz QPSK Low Channel 1RB



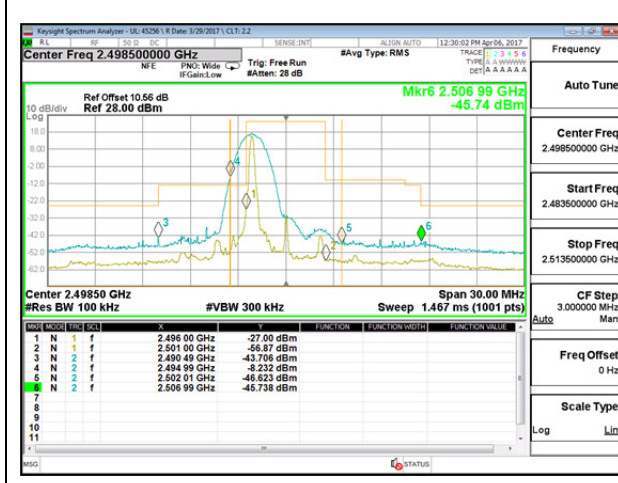
LTE B41 5MHz QPSK High Channel 1RB



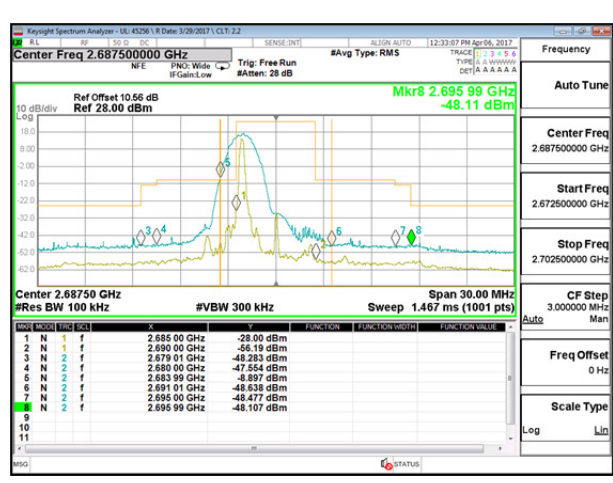
LTE B41 5MHz QPSK Low Channel FRB



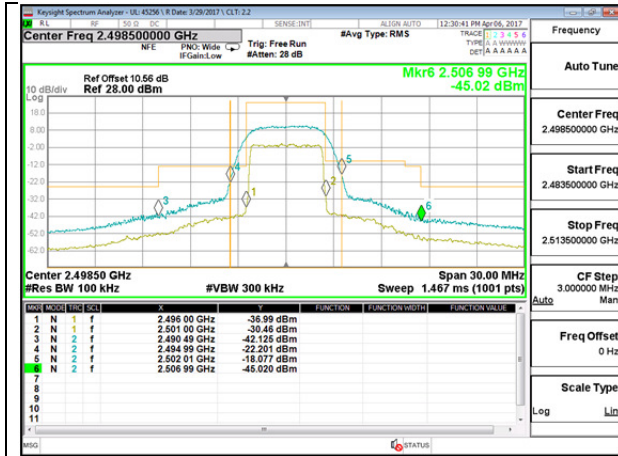
LTE B41 5MHz QPSK High Channel FRB



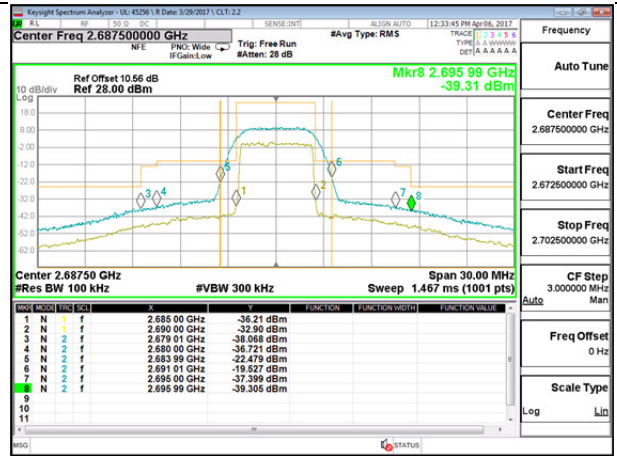
LTE B41 5MHz 16QAM Low Channel 1RB



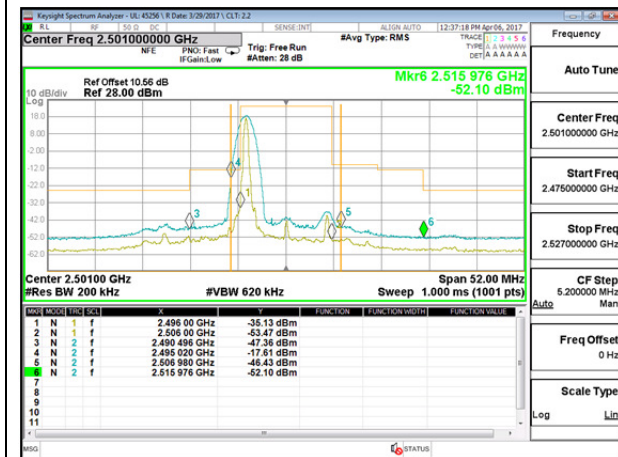
LTE B41 5MHz 16QAM High Channel 1RB



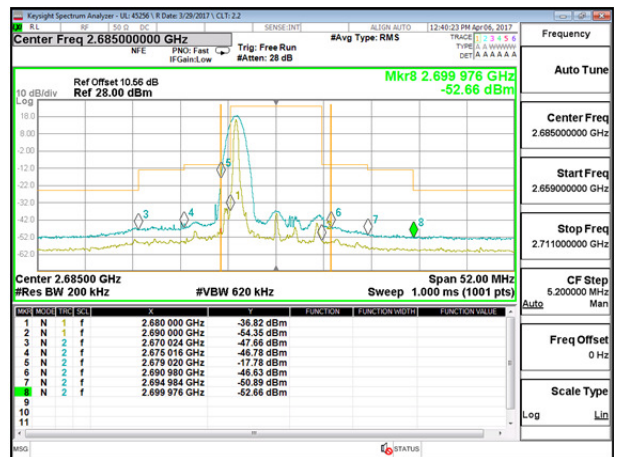
LTE B41 5MHz 16QAM Low Channel FRB



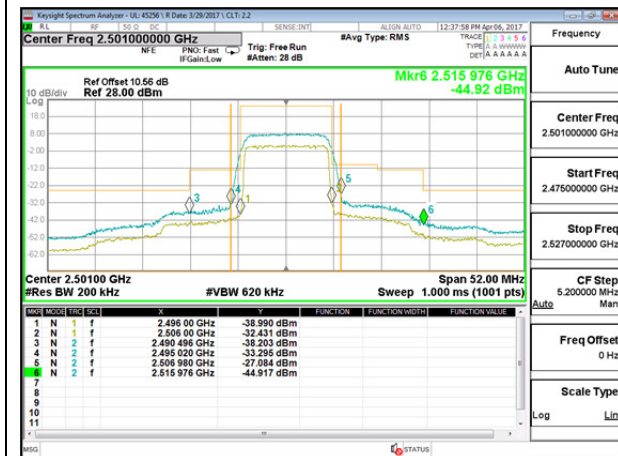
LTE B41 5MHz 16QAM High Channel FRB



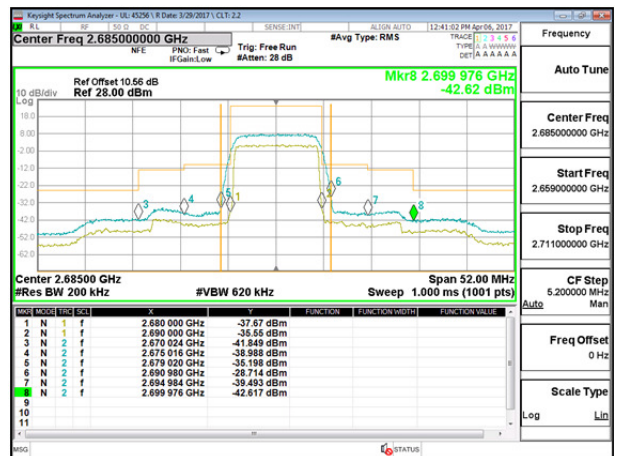
LTE B41 10MHz QPSK Low Channel 1RB



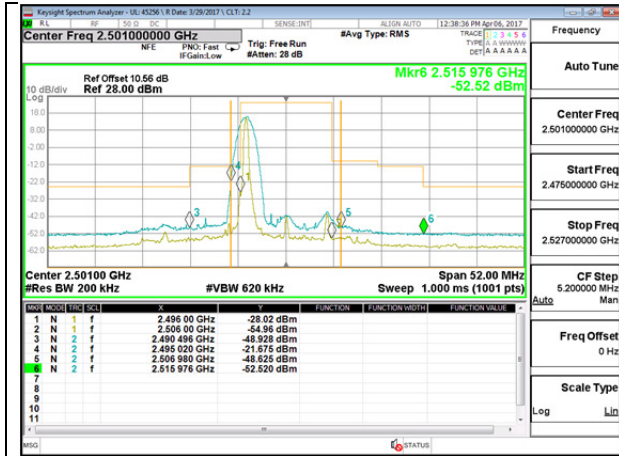
LTE B41 10MHz QPSK High Channel 1RB



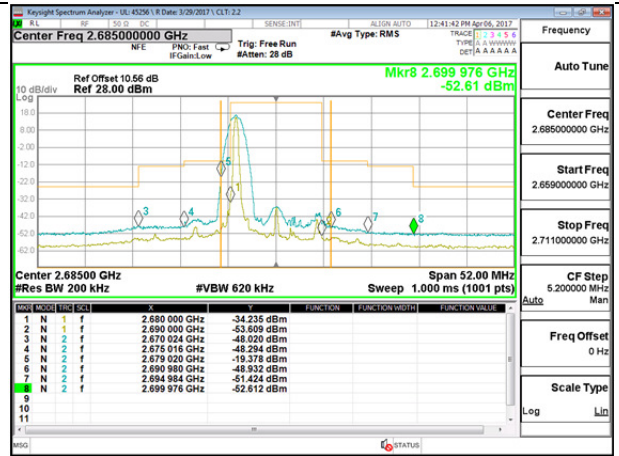
LTE B41 10MHz QPSK Low Channel FRB



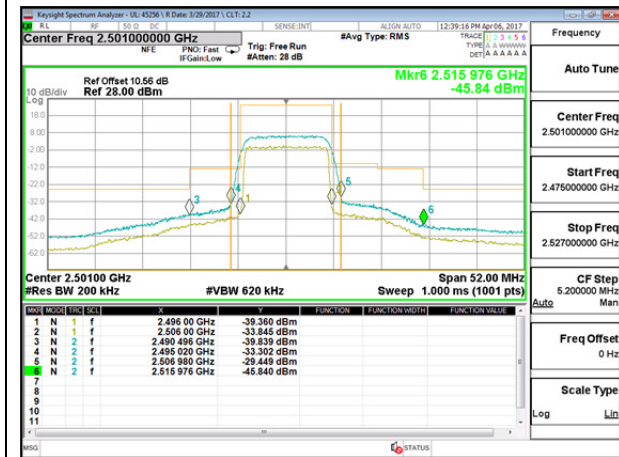
LTE B41 10MHz QPSK High Channel FRB



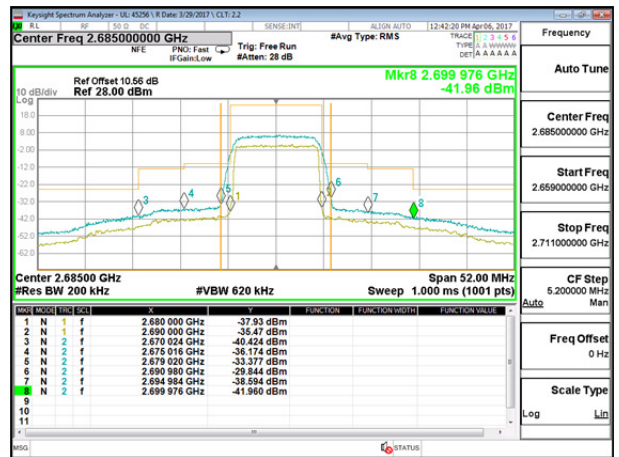
LTE B41 10MHz 16QAM Low Channel 1RB



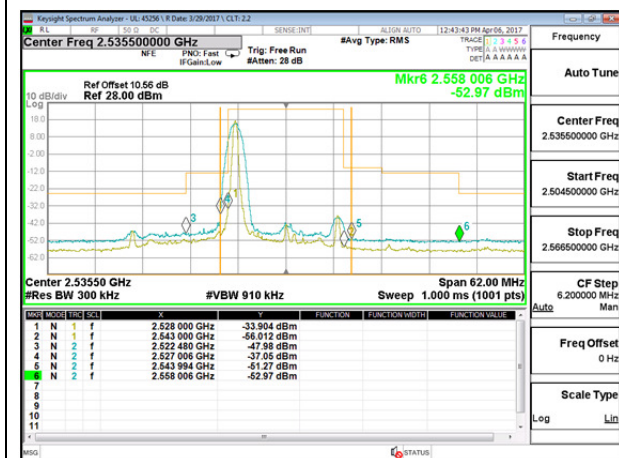
LTE B41 10MHz 16QAM High Channel 1RB



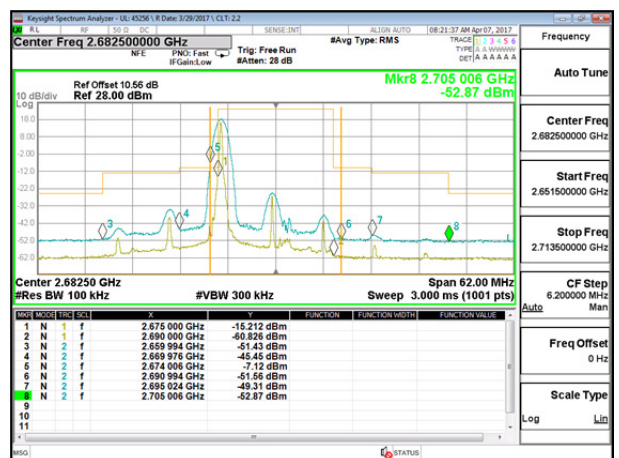
LTE B41 10MHz 16QAM Low Channel FRB



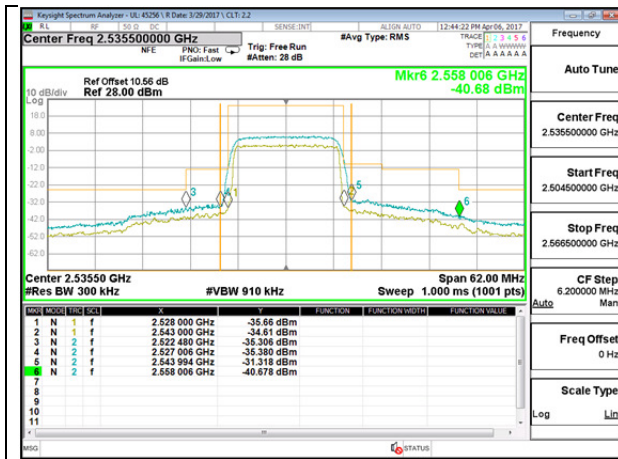
LTE B41 10MHz 16QAM High Channel FRB



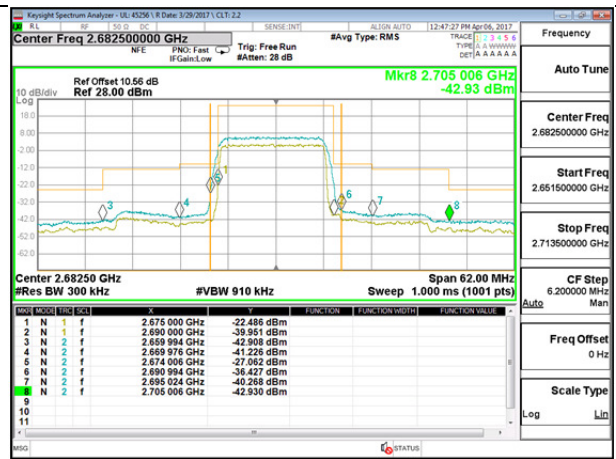
LTE B41 15MHz QPSK Low Channel 1RB



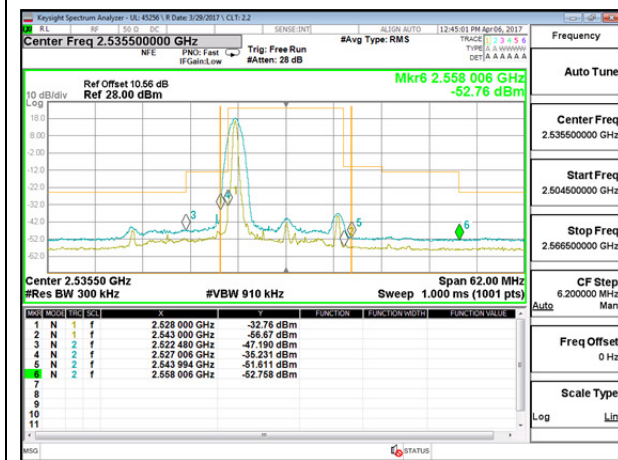
LTE B41 15MHz QPSK High Channel 1RB



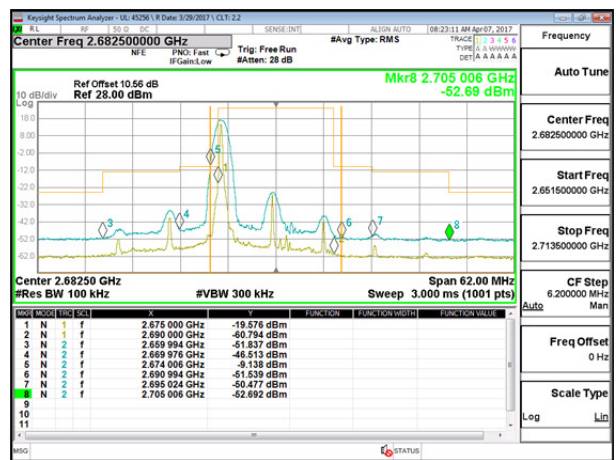
LTE B41 15MHz QPSK Low Channel FRB



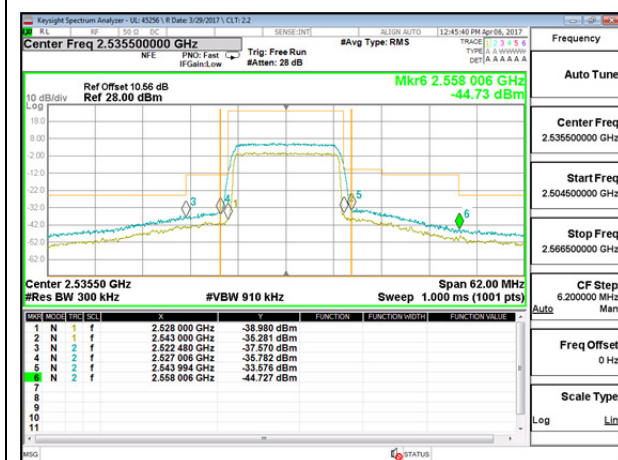
LTE B41 15MHz QPSK High Channel FRB



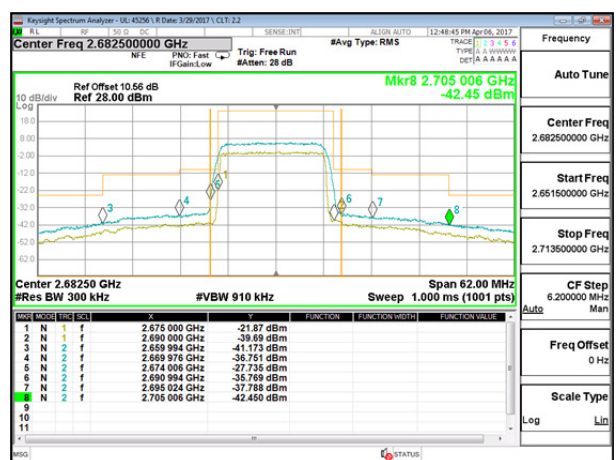
LTE B41 15MHz 16QAM Low Channel 1RB



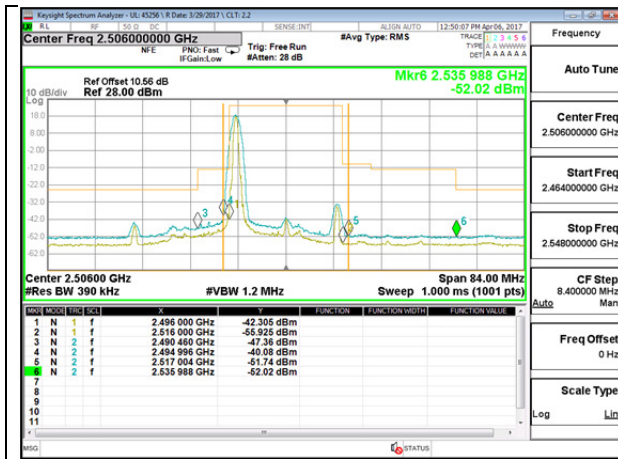
LTE B41 15MHz 16QAM High Channel 1RB



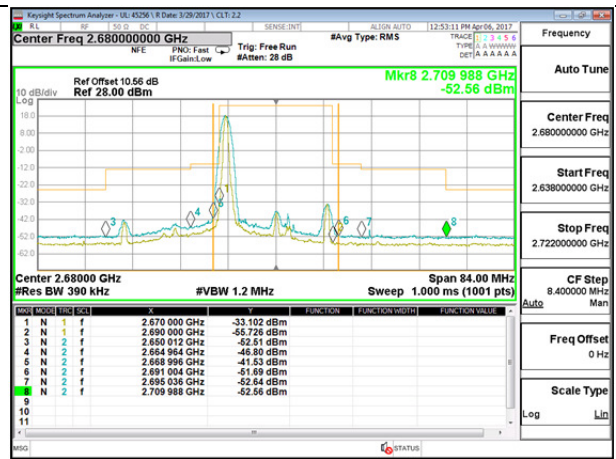
LTE B41 15MHz 16QAM Low Channel FRB



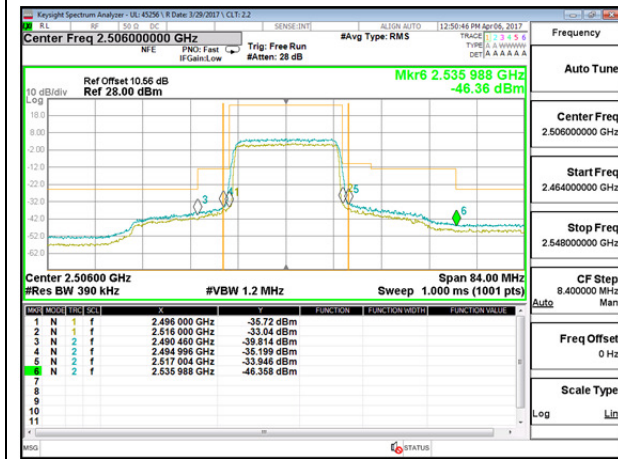
LTE B41 15MHz 16QAM High Channel FRB



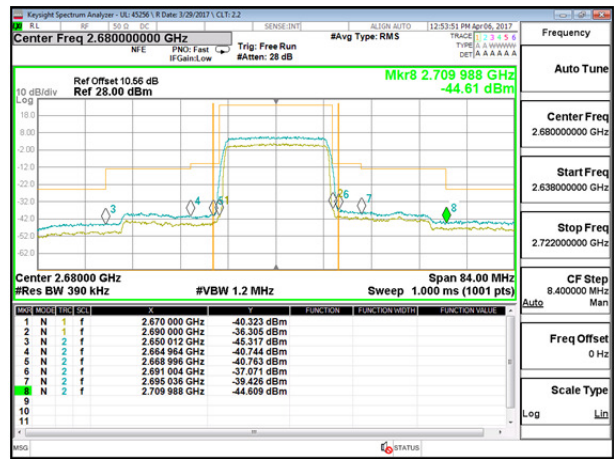
LTE B41 20MHz QPSK Low Channel 1RB



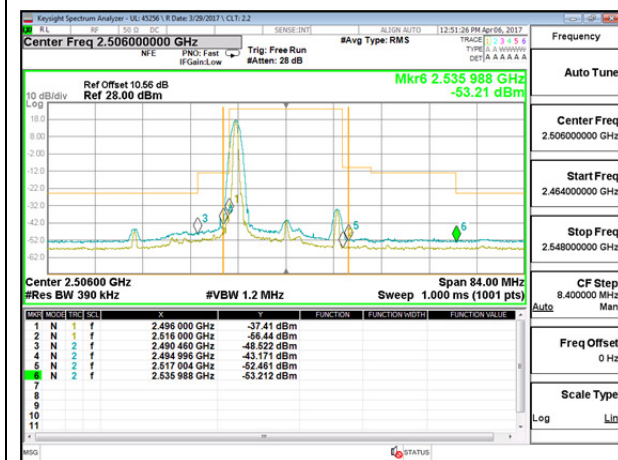
LTE B41 20MHz QPSK High Channel 1RB



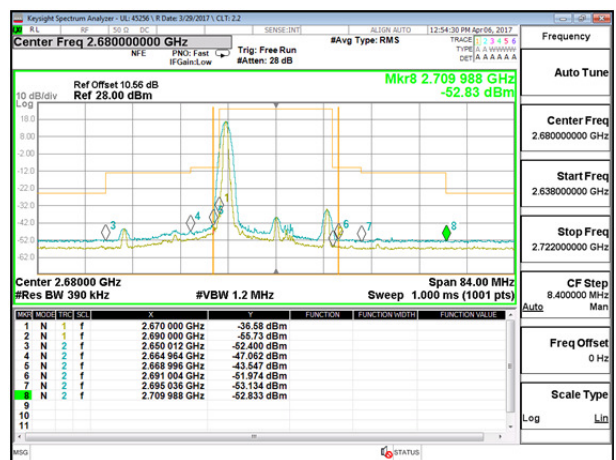
LTE B41 20MHz QPSK Low Channel FRB



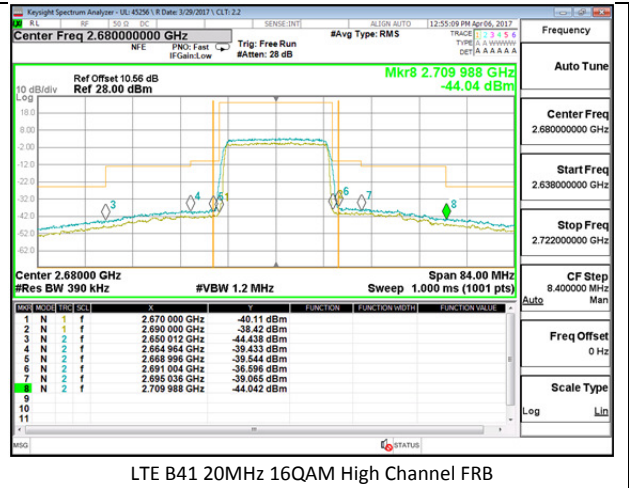
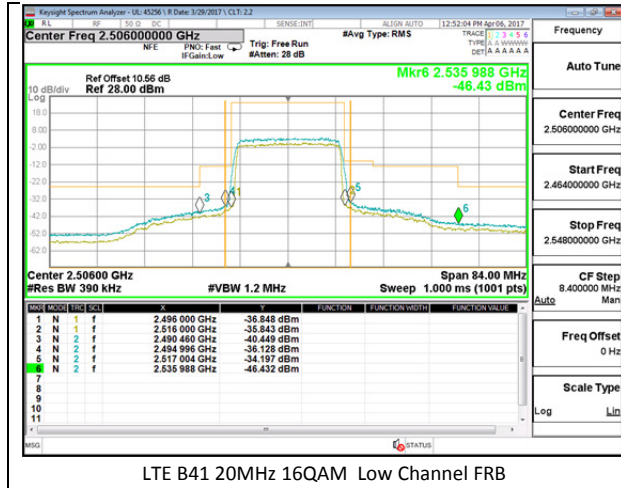
LTE B41 20MHz QPSK High Channel FRB



LTE B41 20MHz 16QAM Low Channel 1RB



LTE B41 20MHz 16QAM High Channel 1RB



15. OUT OF BAND EMISSIONS

RULE PART(S)

FCC: §27.53

LIMITS

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log (P)$ dB.

Part 27: (m)(4) (4) For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

TEST PROCEDURE

Per KDB 971168 D01 Power Meas License Digital Systems v02r02

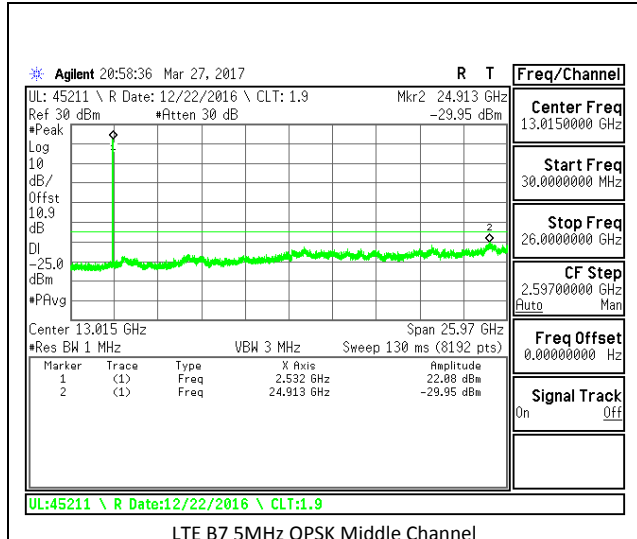
The RF output of the transmitter was connected to a spectrum analyzer through a calibrated coaxial cable. Sufficient scans were taken to show the out-of-band Emissions, if any, up to 10th harmonic. Multiple sweeps were recorded in a maximum hold mode using a peak detector to ensure that the worst-case emissions were caught.

RESULTS

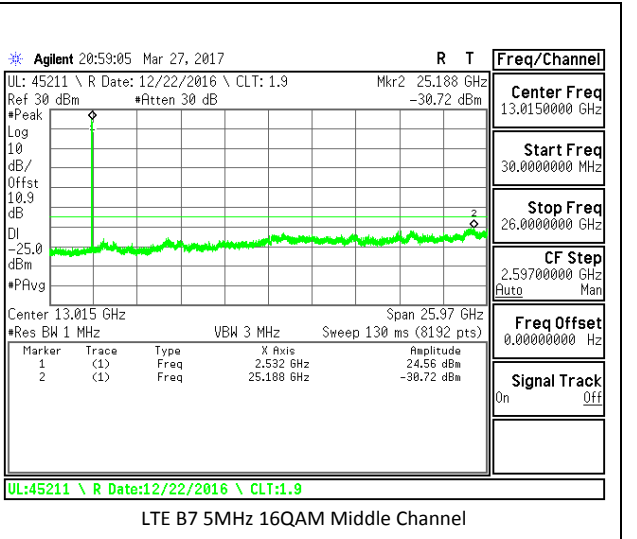
15.1. OUT OF BAND EMISSIONS RESULT AND PLOTS

LTE Band 7

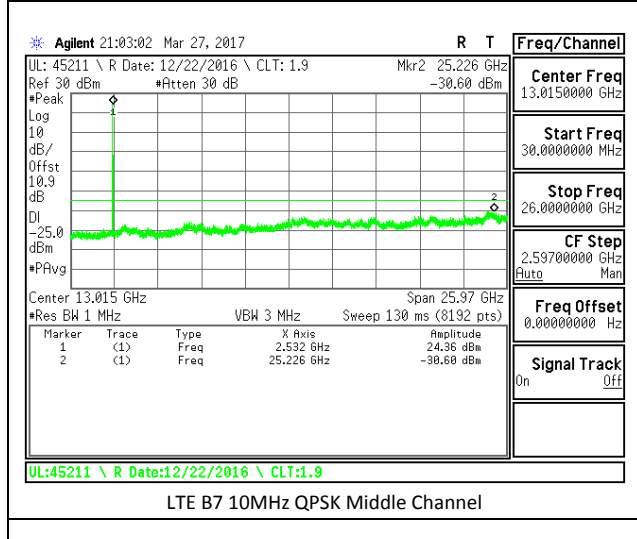
Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE7	20	16QAM	2510	-29.58	-25	-4.58
			2535	-29.64	-25	-4.64
			2560	-29.69	-25	-4.69
		QPSK	2510	-28.65	-25	-3.65
			2535	-30.34	-25	-5.34
			2560	-30.01	-25	-5.01
	15	16QAM	2507.5	-30.38	-25	-5.38
			2535	-30.42	-25	-5.42
			2562.5	-30.59	-25	-5.59
		QPSK	2507.5	-28.66	-25	-3.66
			2535	-30.05	-25	-5.05
			2562.5	-29.89	-25	-4.89
	10	16QAM	2505	-29.92	-25	-4.92
			2535	-29.22	-25	-4.22
			2565	-30.17	-25	-5.17
		QPSK	2505	-29.99	-25	-4.99
			2535	-30.6	-25	-5.6
			2565	-29.42	-25	-4.42
	5	16QAM	2502.5	-29.27	-25	-4.27
			2535	-30.72	-25	-5.72
			2567.5	-29.83	-25	-4.83
		QPSK	2502.5	-29.8	-25	-4.8
			2535	-29.95	-25	-4.95
			2567.5	-30.27	-25	-5.27



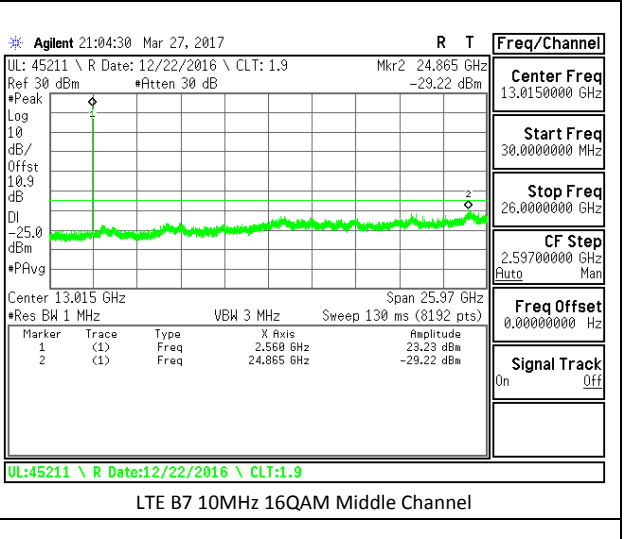
LTE B7 5MHz QPSK Middle Channel



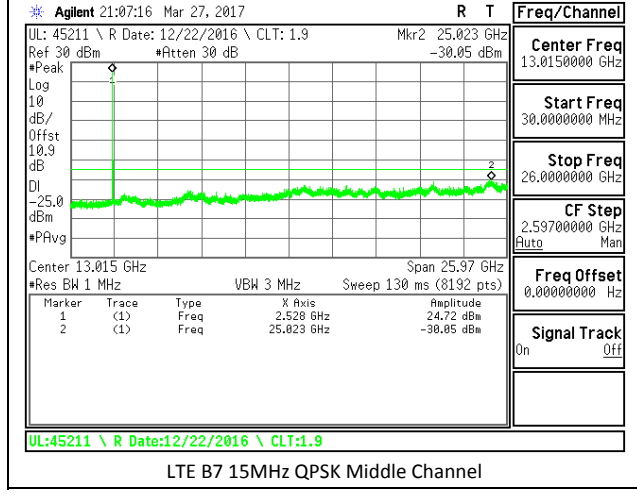
LTE B7 5MHz 16QAM Middle Channel



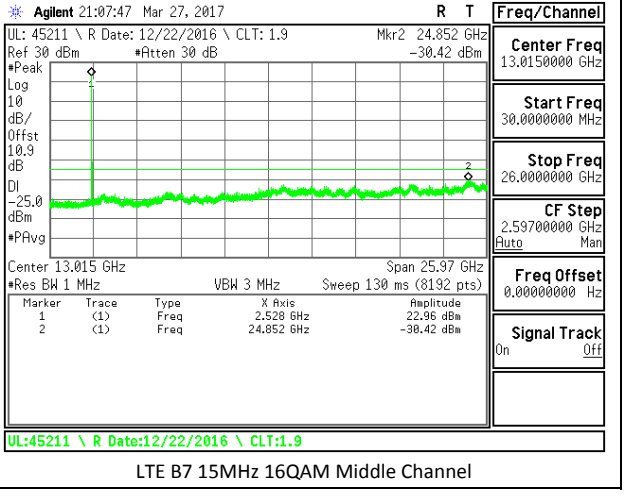
LTE B7 10MHz QPSK Middle Channel



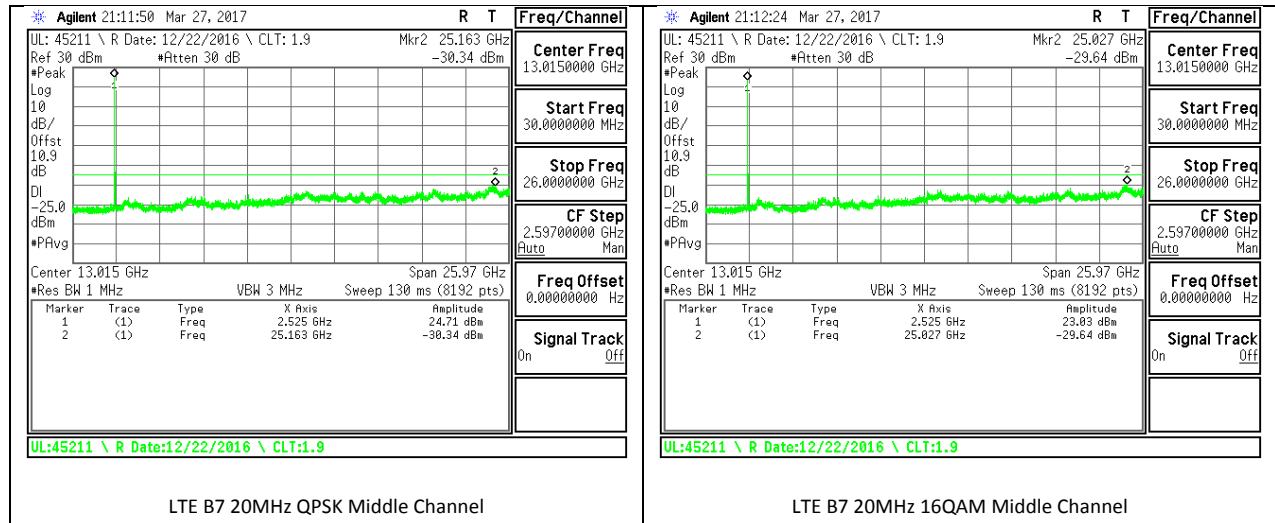
LTE B7 10MHz 16QAM Middle Channel



LTE B7 15MHz QPSK Middle Channel

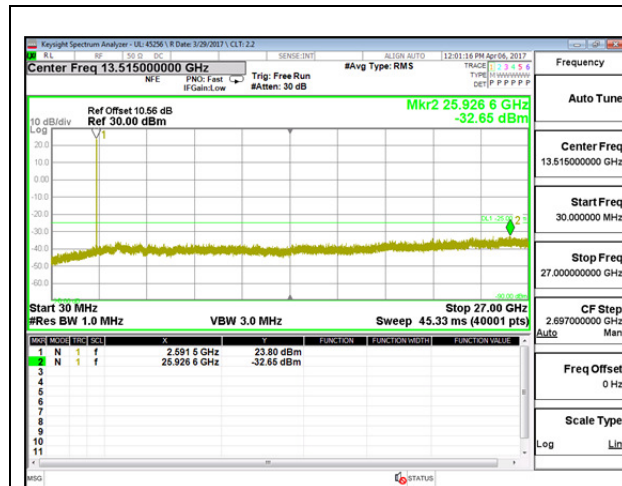


LTE B7 15MHz 16QAM Middle Channel

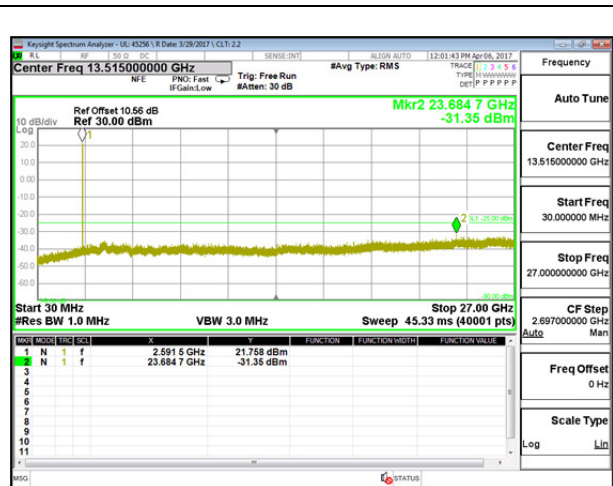


LTE Band 41

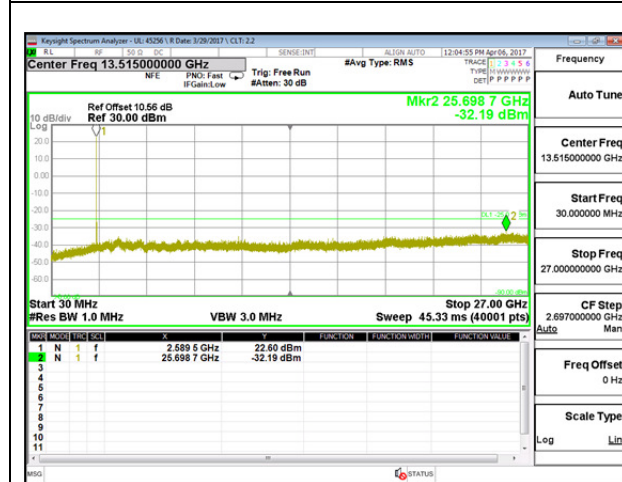
Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE41	20	16QAM	2506	-32.45	-25	-7.45
			2593	-32.82	-25	-7.82
			2680	-32.34	-25	-7.34
		QPSK	2506	-32.64	-25	-7.64
			2593	-32.55	-25	-7.55
			2680	-32.62	-25	-7.62
	15	16QAM	2503.5	-32.55	-25	-7.55
			2593	-32.34	-25	-7.34
			2682.5	-32.69	-25	-7.69
		QPSK	2503.5	-32.12	-25	-7.12
			2593	-32.92	-25	-7.92
			2682.5	-31.58	-25	-6.58
	10	16QAM	2501	-32.56	-25	-7.56
			2593	-32.09	-25	-7.09
			2685	-32.65	-25	-7.65
		QPSK	2501	-32.13	-25	-7.13
			2593	-32.19	-25	-7.19
			2685	-32.72	-25	-7.72
	5	16QAM	2498.5	-32.79	-25	-7.79
			2593	-31.35	-25	-6.35
			2687.5	-32.94	-25	-7.94
		QPSK	2498.5	-32.68	-25	-7.68
			2593	-32.65	-25	-7.65
			2687.5	-32.91	-25	-7.91



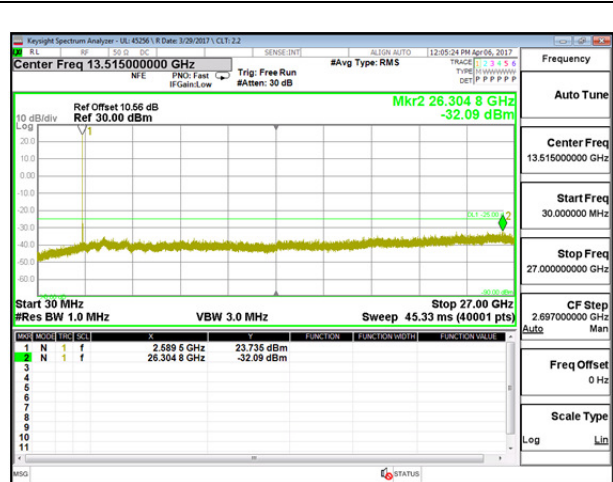
LTE B41 5MHz QPSK Middle Channel



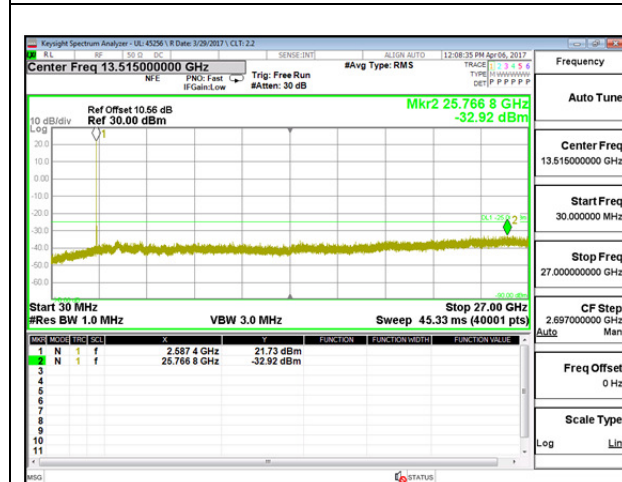
LTE B41 5MHz 16QAM Middle Channel



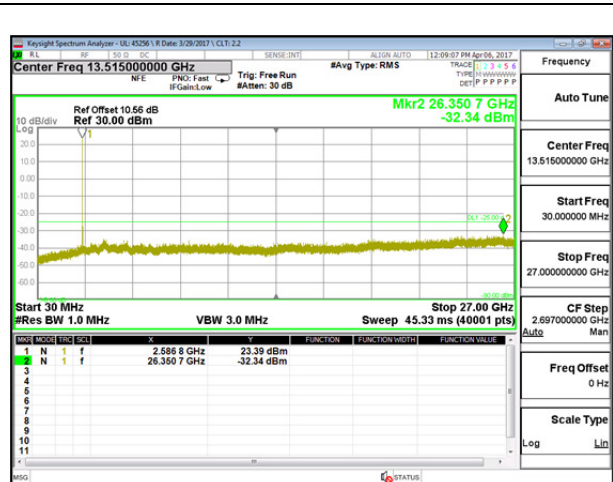
LTE B41 10MHz QPSK Middle Channel



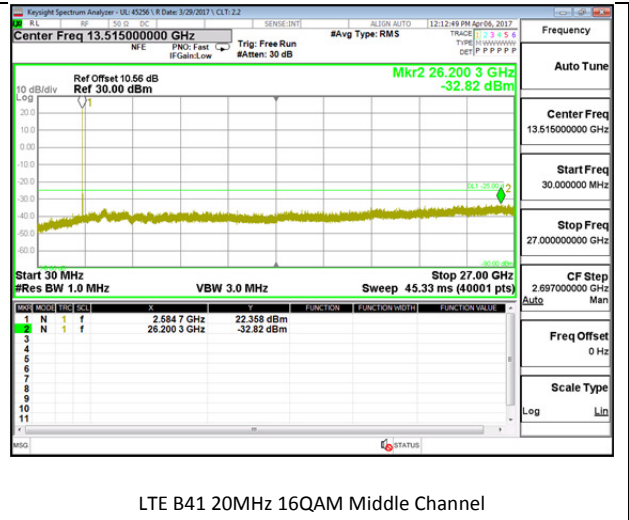
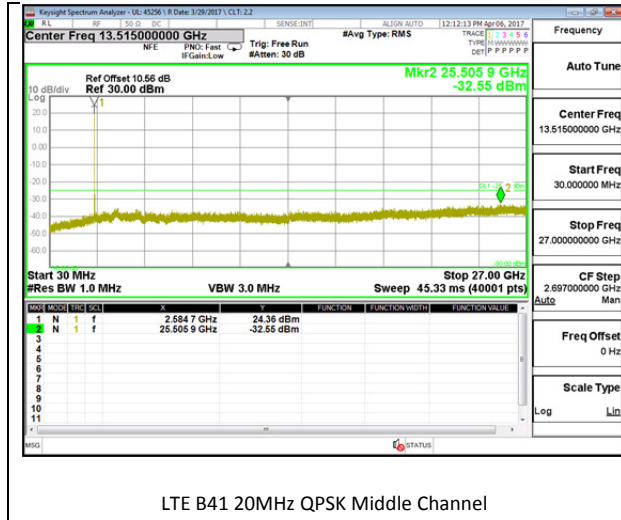
LTE B41 10MHz 16QAM Middle Channel



LTE B41 15MHz QPSK Middle Channel



LTE B41 15MHz 16QAM Middle Channel



16. FREQUENCY STABILITY

RULE PART(S)

FCC: §27.54

LIMITS

§27.54 - The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

TEST PROCEDURE

Per KDB 971168 D01 Power Meas License Digital Systems v02r02

Results

16.1. FREQUENCY STABILITY RESULTS

Tested By	42250
Date	4/12/2017

LTE Band 7

Reference Frequency: Mid Channel 2535.000019 MHz @ 20°C Limit: to stay +/- 2.5 ppm = 6337.500 Hz				
Power Supply (Vdc)	Environment Temperature (°C)	Frequency Deviation Measured with Time Elapse		
		(MHz)	Delta (ppm)	Limit (ppm)
3.80	55	2535.000008	-0.007	2.5
3.80	40	2534.999995	-0.002	2.5
3.80	30	2534.999992	-0.001	2.5
3.80	20	2534.999989	0	2.5
3.80	10	2535.000013	-0.009	2.5
3.80	0	2535.000013	-0.009	2.5
3.80	-10	2535.000010	-0.008	2.5
3.80	-20	2535.000012	-0.009	2.5
3.80	-30	2535.000012	-0.009	2.5

Reference Frequency: Cellular Mid Channel 2535.000019 MHz @ 20°C Limit: to stay +/- 2.5 ppm = 6337.500 Hz				
Power Supply (Vdc)	Environment Temperature (°C)	Frequency Deviation Measured with Time Elapse		
		(MHz)	Delta (ppm)	Limit (ppm)
3.80	20	2534.999989	0	2.5
4.20	20	2534.999989	0.000	2.5
3.6	20	2534.999990	0	2.5

17. RADIATED TEST RESULTS

17.1. RADIATED POWER (ERP & EIRP)

RULE PART(S)

FCC: §27

LIMITS

27.50 (h) - (2) Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power. (LTE B41 & 7)

TEST PROCEDURE

ANSI / TIA / EIA 603D 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.

17.1.1. ERP/EIRP RESULTS AND TABLE

LTE Band 7

BW (MHz)	Mode	RB/RB Size	f(MHz)	EIRP	
				dBm	mW
5	QPSK	1/0	2502.5	28.04	636.80
		1/0	2535	26.29	425.60
		1/0	2567.5	27.50	562.34
	16QAM	1/0	2502.5	28.00	630.96
		1/0	2535	26.20	416.87
		1/0	2567.5	27.52	564.94
10	QPSK	1/0	2505	26.58	454.99
		1/0	2535	26.57	453.94
		1/0	2565	27.56	570.16
	16QAM	1/0	2505	27.13	516.42
		1/0	2535	26.81	479.73
		1/0	2565	27.71	590.20
15	QPSK	1/0	2507.5	26.78	476.43
		1/0	2535	26.09	406.44
		1/0	2562.5	26.06	403.65
	16QAM	1/0	2507.5	27.31	538.27
		1/0	2535	26.41	437.52
		1/0	2562.5	26.15	412.10
20	QPSK	1/0	2510	26.56	452.90
		1/0	2535	26.50	446.68
		1/0	2560	26.61	458.14
	16QAM	1/0	2510	26.51	447.71
		1/0	2535	26.37	433.51
		1/0	2560	26.67	464.52

UL Verification Services, Inc.
High Frequency Substitution Measurement

Company: SOMC
Project #: 11626381
Date: 4/7/2017
Test Engineer: 43675 OS
Configuration: EUT Only (X-Pos)
Location: Chamber B
Mode: LTE_QPSK Band 7 Fundamentals, 5MHz Bandwidth

Test Equipment:
 Receiving: Horn T712, and Chamber C SMA Cables
 Substitution: Horn T69, 6ft N-type Cable T1096

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch								
2502.50	11.75	V	0.7	9.5	20.58	33.0	-12.4	
2502.50	19.21	H	0.7	9.5	28.04	33.0	-5.0	
Mid Ch								
2535.00	7.53	V	0.7	9.5	16.31	33.0	-16.7	
2535.00	17.51	H	0.7	9.5	26.29	33.0	-6.7	
High Ch								
2567.50	16.89	V	0.7	9.5	25.73	33.0	-7.3	
2567.50	18.66	H	0.7	9.5	27.50	33.0	-5.5	

LTE B7 5MHz QPSK

UL Verification Services, Inc.
High Frequency Substitution Measurement

Company: SOMC
Project #: 11626381
Date: 4/7/2017
Test Engineer: 43675 OS
Configuration: EUT Only (X-Pos)
Location: Chamber B
Mode: LTE_16QAM Band 7 Fundamentals, 5MHz Bandwidth

Test Equipment:
 Receiving: Horn T712, and Chamber C SMA Cables
 Substitution: Horn T69, 6ft N-type Cable T1096

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch								
2502.50	11.92	V	0.7	9.5	20.75	33.0	-12.2	
2502.50	19.17	H	0.7	9.5	28.00	33.0	-5.0	
Mid Ch								
2535.00	7.68	V	0.7	9.5	16.46	33.0	-16.5	
2535.00	17.42	H	0.7	9.5	26.20	33.0	-6.8	
High Ch								
2567.50	16.88	V	0.7	9.5	25.72	33.0	-7.3	
2567.50	18.68	H	0.7	9.5	27.52	33.0	-5.5	

LTE B7 5MHz 16QAM

UL Verification Services, Inc.
High Frequency Substitution Measurement

Company: SOMC
Project #: 11626381
Date: 4/7/2017
Test Engineer: 43675 OS
Configuration: EUT Only (X-Pos)
Location: Chamber B
Mode: LTE_QPSK Band 7 Fundamentals, 10MHz Bandwidth

Test Equipment:
 Receiving: Horn T712, and Chamber C SMA Cables
 Substitution: Horn T69, 6ft N-type Cable T1096

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch								
2505.00	12.69	V	0.7	9.5	21.54	33.0	-11.5	
2505.00	17.73	H	0.7	9.5	26.58	33.0	-6.4	
Mid Ch								
2535.00	15.68	V	0.7	9.5	24.46	33.0	-8.5	
2535.00	17.79	H	0.7	9.5	26.57	33.0	-6.4	
High Ch								
2565.00	16.35	V	0.7	9.5	25.19	33.0	-7.8	
2565.00	18.72	H	0.7	9.5	27.56	33.0	-5.4	

LTE B7 10MHz QPSK

UL Verification Services, Inc.
High Frequency Substitution Measurement

Company: SOMC
Project #: 11626381
Date: 4/7/2017
Test Engineer: 43675 OS
Configuration: EUT Only (X-Pos)
Location: Chamber B
Mode: LTE_16QAM Band 7 Fundamentals, 10MHz Bandwidth

Test Equipment:
 Receiving: Horn T712, and Chamber C SMA Cables
 Substitution: Horn T69, 6ft N-type Cable T1096

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch								
2505.00	12.94	V	0.7	9.5	21.79	33.0	-11.2	
2505.00	18.28	H	0.7	9.5	27.13	33.0	-5.9	
Mid Ch								
2535.00	16.10	V	0.7	9.5	24.88	33.0	-8.1	
2535.00	18.03	H	0.7	9.5	26.81	33.0	-6.2	
High Ch								
2565.00	16.54	V	0.7	9.5	25.38	33.0	-7.6	
2565.00	18.87	H	0.7	9.5	27.71	33.0	-5.3	

LTE B7 10MHz 16QAM

UL Verification Services, Inc.
High Frequency Substitution Measurement

Company: SOMC
Project #: 11626381
Date: 4/7/2017
Test Engineer: 43675 OS
Configuration: EUT Only (X-Pos)
Location: Chamber B
Mode: LTE_QPSK Band 7 Fundamentals, 15MHz Bandwidth

Test Equipment:
 Receiving: Horn T712, and Chamber C SMA Cables
 Substitution: Horn T69, 6ft N-type Cable T1096

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch								
2507.50	11.31	V	0.6	9.5	20.17	33.0	-12.8	
2507.50	17.92	H	0.6	9.5	26.78	33.0	-6.2	
Mid Ch								
2535.00	14.47	V	0.7	9.5	23.25	33.0	-9.8	
2535.00	17.31	H	0.7	9.5	26.09	33.0	-6.9	
High Ch								
2562.50	17.15	V	0.7	9.5	25.98	33.0	-7.0	
2562.50	17.23	H	0.7	9.5	26.06	33.0	-6.9	

LTE B7 15MHz QPSK

UL Verification Services, Inc.
High Frequency Substitution Measurement

Company: SOMC
Project #: 11626381
Date: 4/7/2017
Test Engineer: 43675 OS
Configuration: EUT Only (X-Pos)
Location: Chamber B
Mode: LTE_16QAM Band 7 Fundamentals, 15MHz Bandwidth

Test Equipment:
 Receiving: Horn T712, and Chamber C SMA Cables
 Substitution: Horn T69, 6ft N-type Cable T1096

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch								
2507.50	11.55	V	0.6	9.5	20.41	33.0	-12.6	
2507.50	18.45	H	0.6	9.5	27.31	33.0	-5.7	
Mid Ch								
2535.00	14.76	V	0.7	9.5	23.54	33.0	-9.5	
2535.00	17.63	H	0.7	9.5	26.41	33.0	-6.6	
High Ch								
2562.50	17.27	V	0.7	9.5	26.10	33.0	-6.9	
2562.50	17.32	H	0.7	9.5	26.15	33.0	-6.8	

LTE B7 15MHz 16QAM

UL Verification Services, Inc. High Frequency Substitution Measurement								
Company: SOMC								
Project #: 11626381								
Date: 4/7/2017								
Test Engineer: 43575 OS								
Configuration: EUT Only (X-Pos)								
Location: Chamber B								
Mode: LTE_QPSK Band 7 Fundamentals, 20MHz Bandwidth								
Test Equipment:								
Receiving: Horn T712, and Chamber C SMA Cables								
Substitution: Horn T89, 6ft N-type Cable T1096								
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch								
2510.00	10.42	V	0.6	9.5	19.29	33.0	-13.7	
2510.00	17.59	H	0.6	9.5	26.56	33.0	-6.4	
Mid Ch								
2535.00	15.77	V	0.7	9.5	24.55	33.0	-8.5	
2535.00	17.72	H	0.7	9.5	26.50	33.0	-6.5	
High Ch								
2560.00	16.64	V	0.7	9.5	25.46	33.0	-7.5	
2560.00	17.79	H	0.7	9.5	26.61	33.0	-6.4	
LTE B7 20MHz QPSK								

UL Verification Services, Inc. High Frequency Substitution Measurement								
Company: SOMC								
Project #: 11626381								
Date: 4/7/2017								
Test Engineer: 43575 OS								
Configuration: EUT Only (X-Pos)								
Location: Chamber B								
Mode: LTE_16QAM Band 7 Fundamentals, 20MHz Bandwidth								
Test Equipment:								
Receiving: Horn T712, and Chamber C SMA Cables								
Substitution: Horn T89, 6ft N-type Cable T1096								
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch								
2510.00	10.73	V	0.6	9.5	19.60	33.0	-13.4	
2510.00	17.64	H	0.6	9.5	26.51	33.0	-6.5	
Mid Ch								
2535.00	15.91	V	0.7	9.5	24.69	33.0	-8.3	
2535.00	17.59	H	0.7	9.5	26.37	33.0	-6.6	
High Ch								
2560.00	16.76	V	0.7	9.5	25.58	33.0	-7.4	
2560.00	17.85	H	0.7	9.5	26.67	33.0	-6.3	
LTE B7 20MHz 16QAM								

LTE Band 41

BW (MHz)	Mode	RB/RB Size	f(MHz)	EIRP	
				dBm	mW
5	QPSK	1/0	2498.5	28.55	716.14
		1/0	2593	25.66	368.13
		1/0	2687.5	27.35	543.25
	16QAM	1/0	2498.5	28.83	763.84
		1/0	2593	25.49	354.00
		1/0	2687.5	27.31	538.27
10	QPSK	1/0	2501	27.82	605.34
		1/0	2593	26.46	442.59
		1/0	2685	28.02	633.87
	16QAM	1/0	2501	27.71	590.20
		1/0	2593	26.86	485.29
		1/0	2685	28.04	636.80
15	QPSK	1/0	2503.5	27.03	504.66
		1/0	2593	26.24	420.73
		1/0	2682.5	26.15	412.10
	16QAM	1/0	2503.5	27.21	526.02
		1/0	2593	26.66	463.45
		1/0	2682.5	26.37	433.51
20	QPSK	1/0	2506	27.30	537.03
		1/0	2593	26.21	417.83
		1/0	2680	29.42	874.98
	16QAM	1/0	2506	27.40	549.54
		1/0	2593	26.45	441.57
		1/0	2680	29.66	924.70

UL Verification Services, Inc.
High Frequency Substitution Measurement

Company: SOMC
 Project #: 11626381
 Date: 4/7/2017
 Test Engineer: 43675 OS
 Configuration: EUT Only
 Location: Chamber C
 Mode: LTE_QPSK Band 41 Fundamentals, 5MHz Bandwidth

Test Equipment:
 Receiving: Horn T712, and Chamber C SMA Cables
 Substitution: Horn T69, 6ft N-type Cable T1096

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch								
2498.50	17.37	V	0.7	9.5	26.18	33.0	-6.8	
2498.50	19.74	H	0.7	9.5	28.55	33.0	-4.5	
Mid Ch								
2593.00	16.89	V	0.7	9.5	25.66	33.0	-7.3	
2593.00	19.79	H	0.7	9.5	24.57	33.0	-8.4	
High Ch								
2687.50	13.84	V	0.7	9.5	22.65	33.0	-10.3	
2687.50	18.54	H	0.7	9.5	27.35	33.0	-5.6	

LTE B41 5MHz QPSK

UL Verification Services, Inc.
High Frequency Substitution Measurement

Company: SOMC
 Project #: 11626381
 Date: 4/7/2017
 Test Engineer: 43675 OS
 Configuration: EUT Only
 Location: Chamber C
 Mode: LTE_16QAM Band 41 Fundamentals, 5MHz Bandwidth

Test Equipment:
 Receiving: Horn T712, and Chamber C SMA Cables
 Substitution: Horn T69, 6ft N-type Cable T1096

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch								
2498.50	17.73	V	0.7	9.5	26.54	33.0	-6.5	
2498.50	20.02	H	0.7	9.5	28.83	33.0	-4.2	
Mid Ch								
2593.00	16.72	V	0.7	9.5	25.49	33.0	-7.5	
2593.00	15.54	H	0.7	9.5	24.32	33.0	-8.7	
High Ch								
2687.50	13.74	V	0.7	9.5	22.55	33.0	-10.4	
2687.50	18.50	H	0.7	9.5	27.31	33.0	-5.7	

LTE B41 5MHz 16QAM

UL Verification Services, Inc.
High Frequency Substitution Measurement

Company: SOMC
 Project #: 11626381
 Date: 4/7/2017
 Test Engineer: 43675 OS
 Configuration: EUT Only
 Location: Chamber C
 Mode: LTE_QPSK Band 41 Fundamentals, 10MHz Bandwidth

Test Equipment:
 Receiving: Horn T712, and Chamber C SMA Cables
 Substitution: Horn T69, 6ft N-type Cable T1096

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch								
2501.00	16.08	V	0.7	9.5	24.90	33.0	-8.1	
2501.00	19.00	H	0.7	9.5	27.82	33.0	-5.2	
Mid Ch								
2593.00	12.63	V	0.7	9.5	21.40	33.0	-11.6	
2593.00	17.68	H	0.7	9.5	26.46	33.0	-6.5	
High Ch								
2685.00	17.11	V	0.7	9.5	25.93	33.0	-7.1	
2685.00	19.20	H	0.7	9.5	28.02	33.0	-5.0	

LTE B41 10MHz QPSK

UL Verification Services, Inc.
High Frequency Substitution Measurement

Company: SOMC
 Project #: 11626381
 Date: 4/7/2017
 Test Engineer: 43675 OS
 Configuration: EUT Only
 Location: Chamber C
 Mode: LTE_16QAM Band 41 Fundamentals, 10MHz Bandwidth

Test Equipment:
 Receiving: Horn T712, and Chamber C SMA Cables
 Substitution: Horn T69, 6ft N-type Cable T1096

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch								
2501.00	16.08	V	0.7	9.5	24.90	33.0	-8.1	
2501.00	18.89	H	0.7	9.5	27.71	33.0	-5.3	
Mid Ch								
2593.00	12.95	V	0.7	9.5	21.72	33.0	-11.3	
2593.00	18.08	H	0.7	9.5	26.86	33.0	-6.1	
High Ch								
2685.00	17.47	V	0.7	9.5	26.29	33.0	-6.7	
2685.00	19.22	H	0.7	9.5	28.04	33.0	-5.0	

LTE B41 10MHz 16QAM

UL Verification Services, Inc.
High Frequency Substitution Measurement

Company: SOMC
 Project #: 11626381
 Date: 4/7/2017
 Test Engineer: 43675 OS
 Configuration: EUT Only
 Location: Chamber C
 Mode: LTE_QPSK Band 41 Fundamentals, 15MHz Bandwidth

Test Equipment:
 Receiving: Horn T712, and Chamber C SMA Cables
 Substitution: Horn T69, 6ft N-type Cable T1096

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch								
2503.50	13.42	V	0.7	9.5	22.26	33.0	-10.7	
2503.50	18.19	H	0.7	9.5	27.03	33.0	-6.0	
Mid Ch								
2593.00	16.59	V	0.7	9.5	25.36	33.0	-7.6	
2593.00	17.46	H	0.7	9.5	26.24	33.0	-8.8	
High Ch								
2682.50	16.35	V	0.7	9.5	25.17	33.0	-7.8	
2682.50	17.33	H	0.7	9.5	26.15	33.0	-6.9	

LTE B41 15MHz QPSK

UL Verification Services, Inc.
High Frequency Substitution Measurement

Company: SOMC
 Project #: 11626381
 Date: 4/7/2017
 Test Engineer: 43675 OS
 Configuration: EUT Only
 Location: Chamber C
 Mode: LTE_16QAM Band 41 Fundamentals, 15MHz Bandwidth

Test Equipment:
 Receiving: Horn T712, and Chamber C SMA Cables
 Substitution: Horn T69, 6ft N-type Cable T1096

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch								
2503.50	13.53	V	0.7	9.5	22.37	33.0	-10.6	
2503.50	18.37	H	0.7	9.5	27.21	33.0	-5.8	
Mid Ch								
2593.00	17.01	V	0.7	9.5	25.78	33.0	-7.2	
2593.00	17.88	H	0.7	9.5	26.66	33.0	-6.3	
High Ch								
2682.50	16.56	V	0.7	9.5	25.38	33.0	-7.6	
2682.50	17.55	H	0.7	9.5	26.37	33.0	-6.6	

LTE B41 15MHz 16QAM

UL Verification Services, Inc.
 High Frequency Substitution Measurement

Company: SOMC
Project #: 11626381
Date: 4/7/2017
Test Engineer: 43575 OS
Configuration: EUT Only
Location: Chamber C
Mode: LTE_QPSK Band 41 Fundamentals, 20MHz Bandwidth

Test Equipment:
 Receiving: Horn T712, and Chamber C SMA Cables
 Substitution: Horn T59, 6ft N-type Cable T1096

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch								
2506.00	16.21	V	0.6	9.5	25.06	33.0	-7.9	
2506.00	18.45	H	0.6	9.5	27.30	33.0	-5.7	
Mid Ch								
2593.00	16.71	V	0.7	9.5	25.48	33.0	-7.5	
2593.00	17.43	H	0.7	9.5	26.21	33.0	-6.8	
High Ch								
2680.00	18.17	V	0.7	9.5	26.99	33.0	-6.0	
2680.00	20.60	H	0.7	9.5	29.42	33.0	-3.6	

LTE B41 20MHz QPSK

UL Verification Services, Inc.
 High Frequency Substitution Measurement

Company: SOMC
Project #: 11626381
Date: 4/7/2017
Test Engineer: 43575 OS
Configuration: EUT Only
Location: Chamber C
Mode: LTE_16QAM Band 41 Fundamentals, 20MHz Bandwidth

Test Equipment:
 Receiving: Horn T712, and Chamber C SMA Cables
 Substitution: Horn T59, 6ft N-type Cable T1096

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch								
2506.00	16.50	V	0.6	9.5	25.35	33.0	-7.6	
2506.00	18.55	H	0.6	9.5	27.40	33.0	-5.6	
Mid Ch								
2593.00	16.89	V	0.7	9.5	25.46	33.0	-7.5	
2593.00	17.67	H	0.7	9.5	26.45	33.0	-6.6	
High Ch								
2680.00	18.44	V	0.7	9.5	27.26	33.0	-5.7	
2680.00	20.84	H	0.7	9.5	29.66	33.0	-3.3	

LTE B41 20MHz 16QAM

17.2. FIELD STRENGTH OF SPURIOUS RADIATION

RULE PART(S)

FCC: §27.53

LIMIT

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log (P)$ dB.

Part 27: (m)(4) (4) For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the Channel edge and 5 megahertz from the Channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the Channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the Channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on Channel BRS Channel 1 on the same terms and conditions as adjacent Channel BRS or EBS licensees.

TEST PROCEDURE

For Cellular equipment - Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. 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. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 100 kHz or 1 percent of emission bandwidth, as specified). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

For PCS equipment - Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. 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. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 MHz or 1 percent of emission bandwidth, as specified). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

17.2.1. SPURIOUS RADIATION PLOTS

LTE Band 7

UL Verification Services, Inc.
Above 1GHz High Frequency Substitution Measurement

Company: SOMC
 Project #: 11626381 (PY7-66475M)
 Date: 4/11/2017
 Test Engineer: 43574 JS
 Configuration: EUT + AC Charger + HS
 Location: Chamber C
 Mode: LTE_QPSK Band 7 Harmonics, 5MHz Bandwidth

F Mhz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 2502.5									
5005.00	-18.8	V	3.0	33.2	1.0	-51.0	-25.0	-26.0	
7507.50	-16.7	V	3.0	32.8	1.0	-49.6	-25.0	-23.6	
10010.00	-16.4	V	3.0	32.8	1.0	-48.2	-25.0	-23.2	
5005.00	-18.4	H	3.0	33.2	1.0	-50.6	-25.0	-25.6	
7507.50	-15.2	H	3.0	32.8	1.0	-47.1	-25.0	-22.1	
10010.00	-16.6	H	3.0	32.8	1.0	-48.4	-25.0	-23.4	
Mid Ch, 2535									
5070.00	-16.2	V	3.0	33.2	1.0	-48.4	-25.0	-23.4	
7605.00	-16.9	V	3.0	32.8	1.0	-48.3	-25.0	-23.3	
10140.00	-16.9	V	3.0	32.7	1.0	-48.5	-25.0	-23.5	
5070.00	-16.1	H	3.0	33.2	1.0	-48.3	-25.0	-23.3	
7605.00	-16.3	H	3.0	32.8	1.0	-48.1	-25.0	-23.1	
10140.00	-16.8	H	3.0	32.7	1.0	-48.5	-25.0	-23.5	
High Ch, 2567.5									
5135.00	-18.5	V	3.0	33.2	1.0	-50.6	-25.0	-25.6	
7702.50	-16.3	V	3.0	32.8	1.0	-48.1	-25.0	-23.1	
10270.00	-16.3	V	3.0	32.6	1.0	-47.9	-25.0	-22.9	
5135.00	-18.2	H	3.0	33.2	1.0	-50.4	-25.0	-25.4	
7702.50	-15.1	H	3.0	32.8	1.0	-47.0	-25.0	-22.0	
10270.00	-16.1	H	3.0	32.6	1.0	-47.7	-25.0	-22.7	

LTE B7 5MHz QPSK

UL Verification Services, Inc.
Above 1GHz High Frequency Substitution Measurement

Company: SOMC
 Project #: 11626381 (PY7-66475M)
 Date: 4/11/2017
 Test Engineer: 43574 JS
 Configuration: EUT + AC Charger + HS
 Location: Chamber C
 Mode: LTE_16QAM Band 7 Harmonics, 5MHz Bandwidth

F Mhz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 2502.5									
5005.00	-17.3	V	3.0	33.2	1.0	-49.5	-25.0	-24.5	
7507.50	-14.3	V	3.0	32.8	1.0	-46.2	-25.0	-21.2	
10010.00	-14.7	V	3.0	32.8	1.0	-46.5	-25.0	-21.5	
5005.00	-16.7	H	3.0	33.2	1.0	-49.0	-25.0	-24.0	
7507.50	-13.5	H	3.0	32.8	1.0	-45.4	-25.0	-20.4	
10010.00	-14.7	H	3.0	32.8	1.0	-46.5	-25.0	-21.5	
Mid Ch, 2535									
5070.00	-14.7	V	3.0	33.2	1.0	-46.9	-25.0	-21.9	
7605.00	-14.2	V	3.0	32.8	1.0	-46.0	-25.0	-21.0	
10140.00	-15.3	V	3.0	32.7	1.0	-46.9	-25.0	-21.9	
5070.00	-14.8	H	3.0	33.2	1.0	-47.0	-25.0	-22.0	
7605.00	-15.2	H	3.0	32.8	1.0	-47.0	-25.0	-22.0	
10140.00	-15.1	H	3.0	32.7	1.0	-46.8	-25.0	-21.8	
High Ch, 2567.5									
5135.00	-17.1	V	3.0	33.2	1.0	-49.3	-25.0	-24.3	
7702.50	-14.0	V	3.0	32.8	1.0	-45.8	-25.0	-20.8	
10270.00	-14.9	V	3.0	32.6	1.0	-46.4	-25.0	-21.4	
5135.00	-16.5	H	3.0	33.2	1.0	-48.7	-25.0	-23.7	
7702.50	-13.4	H	3.0	32.8	1.0	-45.2	-25.0	-20.2	
10270.00	-14.7	H	3.0	32.6	1.0	-46.2	-25.0	-21.2	

LTE B7 5MHz 16QAM

UL Verification Services, Inc.
Above 1GHz High Frequency Substitution Measurement

Company: SOMC
 Project #: 11626381 (PY7-66475M)
 Date: 4/11/2017
 Test Engineer: 43574 JS
 Configuration: EUT + AC Charger + HS
 Location: Chamber C
 Mode: LTE_QPSK Band 7 Harmonics, 10MHz Bandwidth

F Mhz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 2502.5									
5005.00	-18.8	V	3.0	33.2	1.0	-51.0	-25.0	-26.0	
7507.50	-16.2	V	3.0	32.8	1.0	-48.1	-25.0	-23.1	
10010.00	-15.5	V	3.0	32.8	1.0	-47.3	-25.0	-22.3	
5005.00	-19.0	H	3.0	33.2	1.0	-51.3	-25.0	-26.3	
7507.50	-16.3	H	3.0	32.8	1.0	-48.2	-25.0	-23.2	
10010.00	-16.1	H	3.0	32.8	1.0	-47.9	-25.0	-22.9	
Mid Ch, 2535									
5070.00	-15.7	V	3.0	33.2	1.0	-47.9	-25.0	-22.9	
7605.00	-16.4	V	3.0	32.8	1.0	-48.3	-25.0	-23.3	
10140.00	-15.4	V	3.0	32.7	1.0	-47.1	-25.0	-22.1	
5070.00	-16.4	H	3.0	33.2	1.0	-48.6	-25.0	-23.6	
7605.00	-16.3	H	3.0	32.8	1.0	-48.2	-25.0	-23.2	
10140.00	-16.7	H	3.0	32.7	1.0	-48.4	-25.0	-23.4	
High Ch, 2567.5									
5135.00	-18.6	V	3.0	33.2	1.0	-50.8	-25.0	-25.8	
7702.50	-15.8	V	3.0	32.8	1.0	-47.6	-25.0	-22.6	
10270.00	-14.9	V	3.0	32.6	1.0	-46.5	-25.0	-21.5	
5135.00	-19.1	H	3.0	33.2	1.0	-51.3	-25.0	-26.3	
7702.50	-16.2	H	3.0	32.8	1.0	-48.0	-25.0	-23.0	
10270.00	-15.4	H	3.0	32.6	1.0	-46.9	-25.0	-21.9	

LTE B7 10MHz QPSK

UL Verification Services, Inc.
Above 1GHz High Frequency Substitution Measurement

Company: SOMC
 Project #: 11626381 (PY7-66475M)
 Date: 4/11/2017
 Test Engineer: 43574 JS
 Configuration: EUT + AC Charger + HS
 Location: Chamber C
 Mode: LTE_16QAM Band 7 Harmonics, 10MHz Bandwidth

F Mhz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 2505									
5010.00	-17.4	V	3.0	33.2	1.0	-49.6	-25.0	-24.6	
7515.00	-13.7	V	3.0	32.8	1.0	-45.6	-25.0	-20.6	
10020.00	-14.1	V	3.0	32.8	1.0	-45.9	-25.0	-20.9	
5010.00	-17.4	H	3.0	33.2	1.0	-49.6	-25.0	-24.6	
7515.00	-14.7	H	3.0	32.8	1.0	-46.5	-25.0	-21.5	
10020.00	-14.5	H	3.0	32.8	1.0	-46.3	-25.0	-21.3	
Mid Ch, 2535									
5070.00	-14.2	V	3.0	33.2	1.0	-46.4	-25.0	-21.4	
7605.00	-14.0	V	3.0	32.8	1.0	-45.8	-25.0	-20.8	
10140.00	-14.0	V	3.0	32.7	1.0	-45.7	-25.0	-20.7	
5070.00	-14.8	H	3.0	33.2	1.0	-47.0	-25.0	-22.0	
7605.00	-14.5	H	3.0	32.8	1.0	-46.4	-25.0	-21.4	
10140.00	-15.0	H	3.0	32.7	1.0	-46.7	-25.0	-21.7	
High Ch, 2565									
5130.00	-17.1	V	3.0	33.2	1.0	-49.3	-25.0	-24.3	
7695.00	-13.4	V	3.0	32.8	1.0	-45.2	-25.0	-20.2	
10260.00	-13.4	V	3.0	32.6	1.0	-45.0	-25.0	-20.0	
5130.00	-19.3	H	3.0	33.2	1.0	-51.5	-25.0	-26.5	
7695.00	-14.6	H	3.0	32.8	1.0	-46.5	-25.0	-21.5	
10260.00	-13.6	H	3.0	32.6	1.0	-45.2	-25.0	-20.2	

LTE B7 10MHz 16QAM

UL Verification Services, Inc.
Above 1GHz High Frequency Substitution Measurement

Company: SOMC
 Project #: 11626381 (PY7-66475M)
 Date: 4/11/2017
 Test Engineer: 43574 JS
 Configuration: EUT + AC Charger + HS
 Location: Chamber C
 Mode: LTE_QPSK Band 7 Harmonics, 15MHz Bandwidth

F MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 2507.5									
5015.00	-17.7	V	3.0	33.2	1.0	-50.0	-25.0	-25.0	
7522.50	-16.3	V	3.0	32.8	1.0	-48.1	-25.0	-23.1	
10030.00	-15.6	V	3.0	32.8	1.0	-47.3	-25.0	-22.3	
5015.00	-17.7	H	3.0	33.2	1.0	-50.0	-25.0	-25.0	
7522.50	-16.3	H	3.0	32.8	1.0	-48.1	-25.0	-23.1	
10030.00	-15.7	H	3.0	32.8	1.0	-47.4	-25.0	-22.4	
Mid Ch, 2535									
5070.00	-15.8	V	3.0	33.2	1.0	-48.1	-25.0	-23.1	
7605.00	-16.1	V	3.0	32.8	1.0	-47.9	-25.0	-22.9	
10140.00	-15.9	V	3.0	32.7	1.0	-47.6	-25.0	-22.6	
5070.00	-15.8	H	3.0	33.2	1.0	-48.0	-25.0	-23.0	
7605.00	-15.8	H	3.0	32.8	1.0	-47.7	-25.0	-22.7	
10140.00	-15.7	H	3.0	32.7	1.0	-47.4	-25.0	-22.4	
High Ch, 2562.5									
5125.00	-17.6	V	3.0	33.2	1.0	-49.8	-25.0	-24.8	
7687.50	-16.0	V	3.0	32.8	1.0	-47.9	-25.0	-22.9	
10250.00	-15.8	V	3.0	32.6	1.0	-47.4	-25.0	-22.4	
5125.00	-17.7	H	3.0	33.2	1.0	-49.5	-25.0	-24.5	
7687.50	-16.0	H	3.0	32.8	1.0	-47.9	-25.0	-22.9	
10250.00	-15.7	H	3.0	32.6	1.0	-47.3	-25.0	-22.3	

UL Verification Services, Inc.
Above 1GHz High Frequency Substitution Measurement

Company: SOMC
 Project #: 11626381 (PY7-66475M)
 Date: 4/11/2017
 Test Engineer: 43574 JS
 Configuration: EUT + AC Charger + HS
 Location: Chamber C
 Mode: LTE_16QAM Band 7 Harmonics, 15MHz Bandwidth

F MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 2507.5									
5015.00	-16.3	V	3.0	33.2	1.0	-48.5	-25.0	-23.5	
7522.50	-14.0	V	3.0	32.8	1.0	-45.8	-25.0	-20.8	
10030.00	-14.2	V	3.0	32.8	1.0	-46.0	-25.0	-21.0	
5015.00	-16.0	H	3.0	33.2	1.0	-48.2	-25.0	-23.2	
7522.50	-14.5	H	3.0	32.8	1.0	-46.4	-25.0	-21.4	
10030.00	-14.1	H	3.0	32.8	1.0	-45.8	-25.0	-20.8	
Mid Ch, 2535									
5070.00	-14.3	V	3.0	33.2	1.0	-46.5	-25.0	-21.5	
7605.00	-13.4	V	3.0	32.8	1.0	-45.2	-25.0	-20.2	
10140.00	-14.5	V	3.0	32.7	1.0	-46.2	-25.0	-21.2	
5070.00	-13.9	H	3.0	33.2	1.0	-46.1	-25.0	-21.1	
7605.00	-14.1	H	3.0	32.8	1.0	-46.0	-25.0	-21.0	
10140.00	-14.2	H	3.0	32.7	1.0	-45.9	-25.0	-20.9	
High Ch, 2562.5									
5125.00	-16.0	V	3.0	33.2	1.0	-48.2	-25.0	-23.2	
7687.50	-13.7	V	3.0	32.8	1.0	-45.6	-25.0	-20.6	
10250.00	-14.4	V	3.0	32.6	1.0	-46.0	-25.0	-21.0	
5125.00	-16.0	H	3.0	33.2	1.0	-48.2	-25.0	-23.2	
7687.50	-14.7	H	3.0	32.8	1.0	-46.5	-25.0	-21.5	
10250.00	-13.8	H	3.0	32.6	1.0	-45.4	-25.0	-20.4	

LTE B7 15MHz QPSK

LTE B7 15MHz 16QAM

UL Verification Services, Inc.
Above 1GHz High Frequency Substitution Measurement

Company: SOMC
 Project #: 11626381 (PY7-66475M)
 Date: 4/11/2017
 Test Engineer: 43574 JS
 Configuration: EUT + AC Charger + HS
 Location: Chamber C
 Mode: LTE_QPSK Band 7 Harmonics, 20MHz Bandwidth

F MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 2510									
5020.00	-17.9	V	3.0	33.2	1.0	-50.1	-25.0	-25.1	
7530.00	-16.3	V	3.0	32.8	1.0	-48.1	-25.0	-23.1	
10040.00	-14.9	V	3.0	32.7	1.0	-46.6	-25.0	-21.6	
5020.00	-17.7	H	3.0	33.2	1.0	-50.0	-25.0	-25.0	
7530.00	-17.1	H	3.0	32.8	1.0	-48.9	-25.0	-23.9	
10040.00	-15.6	H	3.0	32.7	1.0	-47.3	-25.0	-22.3	
Mid Ch, 2535									
5070.00	-16.2	V	3.0	33.2	1.0	-48.4	-25.0	-23.4	
7605.00	-15.8	V	3.0	32.8	1.0	-47.7	-25.0	-22.7	
10140.00	-16.0	V	3.0	32.7	1.0	-47.7	-25.0	-22.7	
5070.00	-15.8	H	3.0	33.2	1.0	-48.1	-25.0	-23.1	
7605.00	-16.5	H	3.0	32.8	1.0	-48.4	-25.0	-23.4	
10140.00	-16.4	H	3.0	32.7	1.0	-48.1	-25.0	-23.1	
High Ch, 2560									
5120.00	-17.8	V	3.0	33.2	1.0	-50.0	-25.0	-25.0	
7680.00	-16.2	V	3.0	32.8	1.0	-48.1	-25.0	-23.1	
10240.00	-15.0	V	3.0	32.6	1.0	-46.6	-25.0	-21.6	
5120.00	-17.6	H	3.0	33.2	1.0	-49.8	-25.0	-24.8	
7680.00	-16.8	H	3.0	32.8	1.0	-48.7	-25.0	-23.7	
10240.00	-15.7	H	3.0	32.6	1.0	-47.3	-25.0	-22.3	

UL Verification Services, Inc.
Above 1GHz High Frequency Substitution Measurement

Company: SOMC
 Project #: 11626381 (PY7-66475M)
 Date: 4/11/2017
 Test Engineer: 43574 JS
 Configuration: EUT + AC Charger + HS
 Location: Chamber C
 Mode: LTE_16QAM Band 7 Harmonics, 20MHz Bandwidth

F MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 2510									
5020.00	-16.4	V	3.0	33.2	1.0	-48.6	-25.0	-23.6	
7530.00	-13.9	V	3.0	32.8	1.0	-45.8	-25.0	-20.8	
10040.00	-13.6	V	3.0	32.7	1.0	-45.4	-25.0	-20.4	
5020.00	-16.0	H	3.0	33.2	1.0	-48.3	-25.0	-23.3	
7530.00	-15.5	H	3.0	32.8	1.0	-47.3	-25.0	-22.3	
10040.00	-14.0	H	3.0	32.7	1.0	-45.8	-25.0	-20.8	
Mid Ch, 2535									
5070.00	-14.7	V	3.0	33.2	1.0	-46.9	-25.0	-21.9	
7605.00	-13.5	V	3.0	32.8	1.0	-45.3	-25.0	-20.3	
10140.00	-14.6	V	3.0	32.7	1.0	-46.3	-25.0	-21.3	
5070.00	-14.2	H	3.0	33.2	1.0	-46.4	-25.0	-21.4	
7605.00	-14.7	H	3.0	32.8	1.0	-46.5	-25.0	-21.5	
10140.00	-14.8	H	3.0	32.7	1.0	-46.4	-25.0	-21.4	
High Ch, 2560									
5120.00	-16.4	V	3.0	33.2	1.0	-48.6	-25.0	-23.6	
7680.00	-13.8	V	3.0	32.8	1.0	-45.7	-25.0	-20.7	
10240.00	-13.4	V	3.0	32.6	1.0	-45.0	-25.0	-20.0	
5120.00	-16.1	H	3.0	33.2	1.0	-48.3	-25.0	-23.3	
7680.00	-15.0	H	3.0	32.8	1.0	-46.9	-25.0	-21.9	
10240.00	-14.1	H	3.0	32.6	1.0	-45.7	-25.0	-20.7	

LTE B7 20MHz QPSK

LTE B7 20MHz 16QAM

LTE Band 41

UL Verification Services, Inc.
Above 1GHz High Frequency Substitution Measurement

Company: SOMC
 Project #: 11626381 (PY7-66475M)
 Date: 4/11/2017
 Test Engineer: 43574 JS
 Configuration: EUT + AC Charger + HS
 Location: Chamber B
 Mode: LTE_QPSK Band 41 Harmonics, 5MHz Bandwidth

F MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 2498.50									
4997.00	-15.1	V	3.0	35.5	1.0	-49.6	-25.0	-24.6	
7495.50	-11.1	V	3.0	35.7	1.0	-49.8	-25.0	-20.8	
9994.00	-10.3	V	3.0	36.0	1.0	-45.3	-25.0	-20.3	
4997.00	-13.9	H	3.0	35.5	1.0	-48.4	-25.0	-23.4	
7495.50	-9.6	H	3.0	35.7	1.0	-44.4	-25.0	-19.4	
9994.00	-9.2	H	3.0	36.0	1.0	-44.2	-25.0	-19.2	
Mid Ch, 2593									
5186.00	-15.5	V	3.0	35.4	1.0	-49.9	-25.0	-24.9	
7779.00	-11.5	V	3.0	35.8	1.0	-46.2	-25.0	-21.2	
10372.00	-10.7	V	3.0	35.8	1.0	-45.6	-25.0	-20.6	
5186.00	-14.3	H	3.0	35.4	1.0	-48.9	-25.0	-23.9	
7779.00	-10.6	H	3.0	35.8	1.0	-45.3	-25.0	-20.3	
10372.00	-10.6	H	3.0	35.8	1.0	-45.5	-25.0	-20.5	
High Ch, 2687.50									
5375.00	-14.3	V	3.0	35.4	1.0	-48.7	-25.0	-23.7	
8062.50	-10.3	V	3.0	35.8	1.0	-45.1	-25.0	-20.1	
10750.00	-9.8	V	3.0	35.7	1.0	-44.5	-25.0	-19.5	
5375.00	-13.1	H	3.0	35.4	1.0	-47.6	-25.0	-22.6	
8062.50	-8.8	H	3.0	35.8	1.0	-43.6	-25.0	-18.6	
10750.00	-9.7	H	3.0	35.7	1.0	-44.3	-25.0	-19.3	

LTE B41 5MHz QPSK

UL Verification Services, Inc.
Above 1GHz High Frequency Substitution Measurement

Company: SOMC
 Project #: 11626381 (PY7-66475M)
 Date: 4/11/2017
 Test Engineer: 43574 JS
 Configuration: EUT + AC Charger + HS
 Location: Chamber B
 Mode: LTE_16QAM Band 41 Harmonics, 5MHz Bandwidth

F MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 2498.50									
4997.00	-15.7	V	3.0	35.5	1.0	-50.1	-25.0	-25.1	
7495.50	-11.6	V	3.0	35.7	1.0	-46.3	-25.0	-21.3	
9994.00	-10.3	V	3.0	36.0	1.0	-45.3	-25.0	-20.3	
4997.00	-13.9	H	3.0	35.5	1.0	-48.3	-25.0	-23.3	
7495.50	-9.8	H	3.0	35.7	1.0	-44.5	-25.0	-19.5	
9994.00	-9.2	H	3.0	36.0	1.0	-44.2	-25.0	-19.2	
Mid Ch, 2593									
5186.00	-15.9	V	3.0	35.4	1.0	-50.3	-25.0	-25.3	
7779.00	-11.3	V	3.0	35.8	1.0	-46.0	-25.0	-21.0	
10372.00	-11.6	V	3.0	35.8	1.0	-46.4	-25.0	-21.4	
5186.00	-15.2	H	3.0	35.4	1.0	-49.6	-25.0	-24.6	
7779.00	-10.2	H	3.0	35.8	1.0	-45.0	-25.0	-20.0	
10372.00	-10.5	H	3.0	35.8	1.0	-45.4	-25.0	-20.4	
High Ch, 2687.50									
5375.00	-14.3	V	3.0	35.4	1.0	-48.7	-25.0	-23.7	
8062.50	-10.5	V	3.0	35.8	1.0	-45.3	-25.0	-20.3	
10750.00	-10.1	V	3.0	35.7	1.0	-44.8	-25.0	-19.8	
5375.00	-13.2	H	3.0	35.4	1.0	-47.7	-25.0	-22.7	
8062.50	-8.5	H	3.0	35.8	1.0	-43.3	-25.0	-18.3	
10750.00	-12.8	H	3.0	35.7	1.0	-47.5	-25.0	-22.5	

LTE B41 5MHz 16QAM

UL Verification Services, Inc.
Above 1GHz High Frequency Substitution Measurement

Company: SOMC
 Project #: 11626381 (PY7-66475M)
 Date: 4/11/2017
 Test Engineer: 43574 JS
 Configuration: EUT + AC Charger + HS
 Location: Chamber B
 Mode: LTE_QPSK Band 41 Harmonics, 10MHz Bandwidth

F MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 2501									
5002.00	-15.0	V	3.0	35.5	1.0	-49.4	-25.0	-24.4	
7503.00	-11.9	V	3.0	35.7	1.0	-46.4	-25.0	-21.4	
10040.00	-9.8	V	3.0	36.0	1.0	-44.8	-25.0	-19.8	
5002.00	-14.0	H	3.0	35.5	1.0	-48.5	-25.0	-23.5	
7503.00	-9.4	H	3.0	35.7	1.0	-44.2	-25.0	-19.2	
10040.00	-9.6	H	3.0	36.0	1.0	-44.6	-25.0	-19.6	
Mid Ch, 2593									
5186.00	-15.3	V	3.0	35.4	1.0	-49.7	-25.0	-24.7	
7779.00	-10.8	V	3.0	35.8	1.0	-45.6	-25.0	-20.6	
10372.00	-10.9	V	3.0	35.8	1.0	-45.6	-25.0	-20.6	
5186.00	-15.0	H	3.0	35.4	1.0	-49.4	-25.0	-24.4	
7779.00	-10.8	H	3.0	35.8	1.0	-45.5	-25.0	-20.5	
10372.00	-10.1	H	3.0	35.8	1.0	-45.0	-25.0	-20.0	
High Ch, 2685									
5370.00	-14.1	V	3.0	35.4	1.0	-48.6	-25.0	-23.6	
8055.00	-10.5	V	3.0	35.8	1.0	-45.3	-25.0	-20.3	
10740.00	-9.4	V	3.0	35.7	1.0	-44.1	-25.0	-19.1	
5370.00	-13.0	H	3.0	35.4	1.0	-47.4	-25.0	-22.4	
8055.00	-9.1	H	3.0	35.8	1.0	-43.7	-25.0	-18.7	
10740.00	-10.6	H	3.0	35.7	1.0	-45.3	-25.0	-20.3	

LTE B41 10MHz QPSK

UL Verification Services, Inc.
Above 1GHz High Frequency Substitution Measurement

Company: SOMC
 Project #: 11626381 (PY7-66475M)
 Date: 4/11/2017
 Test Engineer: 43574 JS
 Configuration: EUT + AC Charger + HS
 Location: Chamber B
 Mode: LTE_16QAM Band 41 Harmonics, 10MHz Bandwidth

F MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 2501									
5002.00	-15.3	V	3.0	35.5	1.0	-49.8	-25.0	-24.8	
7503.00	-11.9	V	3.0	35.7	1.0	-46.7	-25.0	-21.7	
10040.00	-10.2	V	3.0	36.0	1.0	-45.2	-25.0	-20.2	
5002.00	-14.4	H	3.0	35.5	1.0	-48.8	-25.0	-23.8	
7503.00	-9.7	H	3.0	35.7	1.0	-44.4	-25.0	-19.4	
10040.00	-9.9	H	3.0	36.0	1.0	-44.9	-25.0	-19.9	
Mid Ch, 2593									
5186.00	-15.4	V	3.0	35.4	1.0	-49.9	-25.0	-24.9	
7779.00	-10.9	V	3.0	35.8	1.0	-45.7	-25.0	-20.7	
10372.00	-11.2	V	3.0	35.8	1.0	-46.0	-25.0	-21.0	
5186.00	-15.2	H	3.0	35.4	1.0	-49.6	-25.0	-24.6	
7779.00	-10.7	H	3.0	35.8	1.0	-45.5	-25.0	-20.5	
10372.00	-10.1	H	3.0	35.8	1.0	-44.9	-25.0	-19.9	
High Ch, 2685									
5370.00	-14.2	V	3.0	35.4	1.0	-48.7	-25.0	-23.7	
8055.00	-10.4	V	3.0	35.8	1.0	-45.2	-25.0	-20.2	
10740.00	-9.3	V	3.0	35.7	1.0	-44.0	-25.0	-19.0	
5370.00	-13.3	H	3.0	35.4	1.0	-47.8	-25.0	-22.8	
8055.00	-9.1	H	3.0	35.8	1.0	-43.9	-25.0	-18.9	
10740.00	-10.6	H	3.0	35.7	1.0	-45.3	-25.0	-20.3	

LTE B41 10MHz 16QAM

UL Verification Services, Inc.
Above 1GHz High Frequency Substitution Measurement

Company: SOMC
 Project #: 11626381 (PY7-66475M)
 Date: 4/11/2017
 Test Engineer: 43574 JS
 Configuration: EUT + AC Charger + HS
 Location: Chamber B
 Mode: LTE_QPSK Band 41 Harmonics, 15MHz Bandwidth

F MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 2503									
5006.00	-15.3	V	3.0	35.5	1.0	-49.8	-25.0	-24.8	
7509.00	-12.5	V	3.0	35.7	1.0	-47.3	-25.0	-22.3	
10012.00	-10.9	V	3.0	36.0	1.0	-45.9	-25.0	-20.9	
5006.00	-13.7	H	3.0	35.5	1.0	-48.2	-25.0	-23.2	
7509.00	-9.7	H	3.0	35.7	1.0	-44.2	-25.0	-19.2	
10012.00	-9.7	H	3.0	36.0	1.0	-44.7	-25.0	-19.7	
Mid Ch, 2593									
5186.00	-15.7	V	3.0	35.4	1.0	-50.1	-25.0	-25.1	
7779.00	-11.6	V	3.0	35.8	1.0	-46.4	-25.0	-21.4	
10372.00	-11.5	V	3.0	35.8	1.0	-46.4	-25.0	-21.4	
5186.00	-14.8	H	3.0	35.4	1.0	-49.3	-25.0	-24.3	
7779.00	-10.2	H	3.0	35.8	1.0	-45.0	-25.0	-20.0	
10372.00	-10.8	H	3.0	35.8	1.0	-45.7	-25.0	-20.7	
High Ch, 2682.50									
5365.00	-14.5	V	3.0	35.4	1.0	-49.0	-25.0	-24.0	
8047.50	-11.8	V	3.0	35.8	1.0	-46.6	-25.0	-21.6	
10730.00	-9.2	V	3.0	35.7	1.0	-43.9	-25.0	-18.9	
5365.00	-12.8	H	3.0	35.4	1.0	-47.3	-25.0	-22.3	
8047.50	-8.7	H	3.0	35.8	1.0	-43.5	-25.0	-18.5	
10730.00	-9.9	H	3.0	35.7	1.0	-44.6	-25.0	-19.6	

LTE B41 15MHz QPSK

UL Verification Services, Inc.
Above 1GHz High Frequency Substitution Measurement

Company: SOMC
 Project #: 11626381 (PY7-66475M)
 Date: 4/11/2017
 Test Engineer: 43574 JS
 Configuration: EUT + AC Charger + HS
 Location: Chamber B
 Mode: LTE_16QAM Band 41 Harmonics, 15MHz Bandwidth

F MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 2503									
5006.00	-15.7	V	3.0	35.5	1.0	-50.1	-25.0	-25.1	
7509.00	-12.7	V	3.0	35.7	1.0	-47.5	-25.0	-22.5	
10012.00	-10.9	V	3.0	36.0	1.0	-45.9	-25.0	-20.9	
5006.00	-13.8	H	3.0	35.5	1.0	-48.3	-25.0	-23.3	
7509.00	-9.7	H	3.0	35.7	1.0	-44.5	-25.0	-19.5	
10012.00	-9.8	H	3.0	36.0	1.0	-44.8	-25.0	-19.8	
Mid Ch, 2593									
5186.00	-15.8	V	3.0	35.4	1.0	-50.3	-25.0	-25.3	
7779.00	-11.9	V	3.0	35.8	1.0	-46.7	-25.0	-21.7	
10372.00	-11.5	V	3.0	35.8	1.0	-46.4	-25.0	-21.4	
5186.00	-14.9	H	3.0	35.4	1.0	-49.3	-25.0	-24.3	
7779.00	-10.5	H	3.0	35.8	1.0	-45.3	-25.0	-20.3	
10372.00	-11.1	H	3.0	35.8	1.0	-45.9	-25.0	-20.9	
High Ch, 2682.50									
5365.00	-14.4	V	3.0	35.4	1.0	-48.8	-25.0	-23.8	
8047.50	-12.0	V	3.0	35.8	1.0	-46.8	-25.0	-21.8	
10730.00	-9.5	V	3.0	35.7	1.0	-44.2	-25.0	-19.2	
5365.00	-12.8	H	3.0	35.4	1.0	-47.2	-25.0	-22.2	
8047.50	-9.1	H	3.0	35.8	1.0	-43.9	-25.0	-18.9	
10730.00	-10.1	H	3.0	35.7	1.0	-44.7	-25.0	-19.7	

LTE B41 15MHz 16QAM

UL Verification Services, Inc.
Above 1GHz High Frequency Substitution Measurement

Company: SOMC
 Project #: 11626381 (PY7-66475M)
 Date: 4/11/2017
 Test Engineer: 43574 JS
 Configuration: EUT + AC Charger + HS
 Location: Chamber B
 Mode: LTE_QPSK Band 41 Harmonics, 20MHz Bandwidth

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 2506									
5012.00	-14.7	V	3.0	35.5	1.0	-49.2	-25.0	24.2	
7518.00	-12.1	V	3.0	35.7	1.0	-46.8	-25.0	21.8	
10024.00	-11.4	V	3.0	36.0	1.0	-46.4	-25.0	21.4	
5012.00	-14.6	H	3.0	35.5	1.0	-49.0	-25.0	24.0	
7518.00	-10.5	H	3.0	35.7	1.0	-45.3	-25.0	20.3	
10024.00	-10.4	H	3.0	36.0	1.0	-45.4	-25.0	20.4	
Mid Ch, 2593									
5186.00	-15.1	V	3.0	35.4	1.0	-49.5	-25.0	24.5	
7779.00	-11.6	V	3.0	35.8	1.0	-46.3	-25.0	21.3	
10372.00	-11.0	V	3.0	35.8	1.0	-45.9	-25.0	20.9	
5186.00	-14.6	H	3.0	35.4	1.0	-49.0	-25.0	24.0	
7779.00	-10.8	H	3.0	35.8	1.0	-45.5	-25.0	20.5	
10372.00	-10.7	H	3.0	35.8	1.0	-45.6	-25.0	20.6	
High Ch, 2680									
5360.00	-13.3	V	3.0	35.4	1.0	-47.8	-25.0	22.8	
8040.00	-11.3	V	3.0	35.8	1.0	-46.1	-25.0	21.1	
10720.00	-11.0	V	3.0	35.7	1.0	-45.7	-25.0	20.7	
5360.00	-13.7	H	3.0	35.4	1.0	-48.1	-25.0	23.1	
8040.00	-9.7	H	3.0	35.8	1.0	-44.5	-25.0	19.5	
10720.00	-10.5	H	3.0	35.7	1.0	-45.2	-25.0	20.2	

LTE B41 20MHz QPSK

UL Verification Services, Inc.
Above 1GHz High Frequency Substitution Measurement

Company: SOMC
 Project #: 11626381 (PY7-66475M)
 Date: 4/11/2017
 Test Engineer: 43574 JS
 Configuration: EUT + AC Charger + HS
 Location: Chamber B
 Mode: LTE_16QAM Band 41 Harmonics, 20MHz Bandwidth

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 2506									
5012.00	-15.6	V	3.0	35.5	1.0	-50.1	-25.0	25.1	
7518.00	-12.0	V	3.0	35.7	1.0	-46.7	-25.0	21.7	
10024.00	-10.6	V	3.0	36.0	1.0	-45.6	-25.0	20.6	
5012.00	-14.5	H	3.0	35.5	1.0	-48.9	-25.0	23.9	
7518.00	-10.3	H	3.0	35.7	1.0	-45.0	-25.0	20.0	
10024.00	-10.7	H	3.0	36.0	1.0	-45.7	-25.0	20.7	
Mid Ch, 2593									
5186.00	-16.0	V	3.0	35.4	1.0	-50.4	-25.0	25.4	
7779.00	-11.5	V	3.0	35.8	1.0	-46.2	-25.0	21.2	
10372.00	-10.3	V	3.0	35.8	1.0	-45.1	-25.0	20.1	
5186.00	-15.4	H	3.0	35.4	1.0	-49.8	-25.0	24.8	
7779.00	-10.8	H	3.0	35.8	1.0	-45.6	-25.0	20.6	
10372.00	-10.5	H	3.0	35.8	1.0	-45.4	-25.0	20.4	
High Ch, 2680									
5360.00	-14.0	V	3.0	35.4	1.0	-48.5	-25.0	23.5	
8040.00	-11.1	V	3.0	35.8	1.0	-45.9	-25.0	20.9	
10720.00	-10.9	V	3.0	35.7	1.0	-45.6	-25.0	20.6	
5360.00	-13.9	H	3.0	35.4	1.0	-48.3	-25.0	23.3	
8040.00	-10.0	H	3.0	35.8	1.0	-44.8	-25.0	19.8	
10720.00	-10.8	H	3.0	35.7	1.0	-45.5	-25.0	20.5	

LTE B41 20MHz 16QAM