REPORT NO: 16J23633A-E1V2 DATE: 8/16/2016

FCC ID: PY7-29752M

LTE Band 26-Part 90

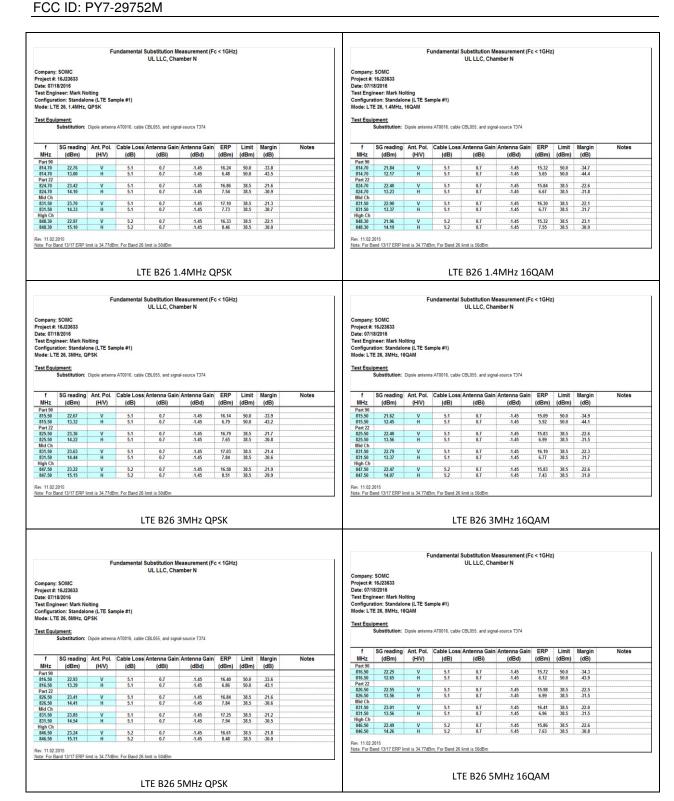
D)A/ (B/III-)	Mode	DD /DD Sino	£(\$411=\	ERP			
BW (MHz)	Mode	RB/RB Size	f(MHz)	dBm	mW		
1.4	QPSK	1/0	814.7	16.24	42.07		
1.4	16QAM	1/0	814.7	15.32	34.04		
3	QPSK	1/0	815.5	16.14	41.11		
3	16QAM	1/0	815.5	15.09	32.28		
5	QPSK	1/0	816.5	16.40	43.65		
3	16QAM	1/0	816.5	15.72	37.33		
10	QPSK	1/0	819	16.37	43.35		
10	16QAM	1/0	819	15.30	33.88		

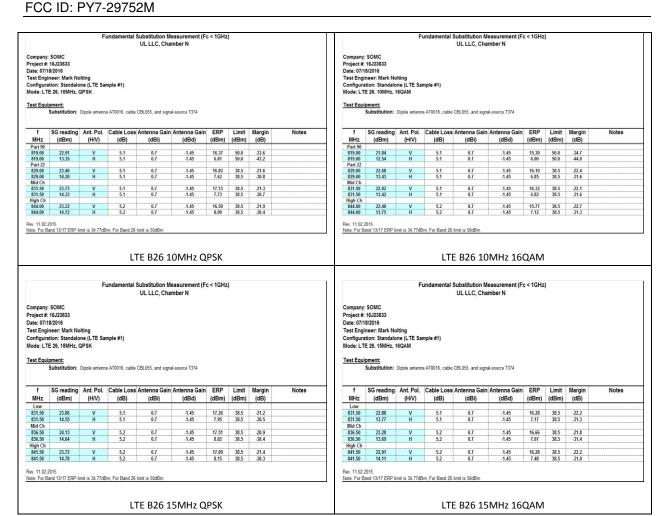
REPORT NO: 16J23633A-E1V2 DATE: 8/16/2016

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LTE Band 26-Part 22

D14/ /B411-1	Mode	nn (nn ci	£(DALL_)	EF	RP
BW (MHz)	iviode	RB/RB Size	f(MHz)	dBm	mW
		1/0	824.7	16.86	48.53
	QPSK	1/0	831.5	17.10	51.29
1.4		1/0	848.3	16.33	42.95
1.4		1/0	824.7	15.84	38.37
	16QAM	1/0	831.5	16.30	42.66
		1/0	848.3	15.32	34.04
		1/0	825.5	16.79	47.75
	QPSK 3 16QAM	1/0	831.5	17.03	50.47
2		1/0	847.5	16.58	45.50
5		1/0	825.5	15.83	38.28
		1/0	831.5	16.19	41.59
		1/0	847.5	15.83	38.28
		1/0	826.5	16.84	48.31
	QPSK	1/0	831.5	17.25	53.09
5		1/0	846.5	16.61	45.81
3		1/0	826.5	15.98	39.63
	16QAM	1/0	831.5	16.41	43.75
		1/0	846.5	15.86	38.55
		1/0	829	16.82	48.08
	QPSK	1/0	831.5	17.13	51.64
10		1/0	844	16.59	45.60
10		1/0	829	16.10	40.74
	16QAM	1/0	831.5	16.32	42.85
		1/0	844	15.77	37.76
		1/0	831.5	17.26	53.21
	QPSK	1/0	836.5	17.51	56.36
15		1/0	841.5	17.09	51.17
1.0		1/0	831.5	16.28	42.46
	16QAM	1/0	836.5	16.66	46.34
		1/0	841.5	16.28	42.46



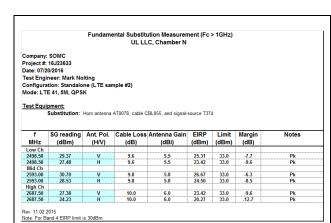


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LTE Band 41

Diag (Ball)	0.0-1-	nn (nn c'	((n.c.)	EIRP (PEAK)
BW (MHz)	Mode	RB/RB Size	f(MHz)	dBm	mW
		1/0	2498.5	25.31	339.63
	QPSK	1/0	2593	26.67	464.52
5		1/0	2687.5	23.42	219.79
3	16QAM	1/0	2498.5	25.37	344.35
		1/0	2593	26.65	462.81
		1/0	2687.5	23.44	220.80
		1/0	2501	25.25	334.97
	QPSK	1/0	2593	26.44	440.55
10		1/0	2685	23.12	205.12
10		1/0	2501	25.23	333.43
	16QAM	1/0	2593	26.44	440.55
		1/0	2685	23.33	215.28
		1/0	2503.5	25.03	318.42
	QPSK	1/0	2593	26.63	460.26
15		1/0	2682.5	23.46	221.82
13		1/0	2503.5	25.12	325.09
	16QAM	1/0	2593	26.58	454.99
		1/0	2682.5	23.64	231.21
		1/0	2506	25.37	344.35
	QPSK	1/0	2593	26.55	451.86
20		1/0	2680	23.35	216.27
20		1/0	2506	25.44	349.95
	16QAM	1/0	2593	26.53	449.78
		1/0	2680	23.53	225.42



		Fundame		ution Measuren .C, Chamber N	nent (FC	> 1GHZ)		
ompany:								
	16J23633							
ate: 07/2								
	neer: Mark No tion: Standalo							
est Equi			470070 11 0	DIACC I : I	T07			
f	Substitution: SG reading	Ant. Pol.	Cable Loss	BL055, and signal-	EIRP	Limit	Margin	Notes
	Substitution:						Margin (dB)	Notes
f MHz Low Ch	Substitution: SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	(dB)	
f MHz Low Ch 2498.50	Substitution: SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	(dB) -7.6	Pk
f MHz Low Ch 2498.50 2498.50	Substitution: SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	(dB)	
f MHz Low Ch 2498.50 2498.50 Mid Ch	SG reading (dBm) 29.43 27.53	Ant. Pol. (H/V)	Cable Loss (dB) 9.6 9.6	Antenna Gain (dBi) 5.5 5.5	EIRP (dBm) 25.37 23.47	Limit (dBm) 33.0 33.0	7.6 -9.5	Pk Pk
f MHz Low Ch 2498.50 2498.50 Mid Ch 2593.00	Substitution: SG reading (dBm) 29.43 27.53 30.69	Ant. Pol. (H/V) V H	Cable Loss (dB) 9.6 9.6	Antenna Gain (dBi) 5.5 5.5	EIRP (dBm) 25.37 23.47 26.65	Limit (dBm) 33.0 33.0 33.0	-7.6 -9.5 -6.3	Pk Pk Pk
f MHz Low Ch 2498.50 2498.50 Mid Ch 2593.00 2593.00	SG reading (dBm) 29.43 27.53	Ant. Pol. (H/V)	Cable Loss (dB) 9.6 9.6	Antenna Gain (dBi) 5.5 5.5	EIRP (dBm) 25.37 23.47	Limit (dBm) 33.0 33.0	7.6 -9.5	Pk Pk
f MHz Low Ch 2498.50 2498.50 Mid Ch 2593.00 2593.00 ligh Ch	Substitution: SG reading (dBm) 29.43 27.53 30.69 28.59	Ant. Pol. (H/V) V H	Cable Loss (dB) 9.6 9.6 9.8	Antenna Gain (dBi) 5.5 5.5 5.8	EIRP (dBm) 25.37 23.47 26.65 24.56	Limit (dBm) 33.0 33.0 33.0 33.0	7.6 9.5 -6.3 -8.4	Pk Pk Pk Pk
f MHz Low Ch 2498.50 2498.50 Mid Ch 2593.00	Substitution: SG reading (dBm) 29.43 27.53 30.69	Ant. Pol. (H/V) V H	Cable Loss (dB) 9.6 9.6	Antenna Gain (dBi) 5.5 5.5	EIRP (dBm) 25.37 23.47 26.65	Limit (dBm) 33.0 33.0 33.0	-7.6 -9.5 -6.3	Pk Pk Pk

LTE B41 5MHz QPSK	
Fundamental Substitution Measurement (Fc > 1GHz)	
UL LLC, Chamber N	
Company: SOMC	
Project #: 16J23633	
Date: 07/20/2016	
Test Engineer: Mark Nolting	
Configuration: Standalone (LTE sample #2)	
Mode: LTE 41, 10M, QPSK	

	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	EIRP	Limit	Margin	Notes
	(dBm)	(H/V)	(dB)	(dBi)	(dBm)	(dBm)	(dB)	
Low Ch								
2501.00	29.31	V	9.6	5.5	25.25	33.0	-7.7	Pk
2501.00	27.79	Н	9.6	5.5	23.73	33.0	-9.3	Pk
Mid Ch								
2593.00	30.47	V	9.8	5.8	26.44	33.0	-6.6	Pk
2593.00	28.71	Н	9.8	5.8	24.67	33.0	-8.3	Pk
High Ch								
2685.00	27.09	V	10.0	6.0	23.12	33.0	-9.9	Pk
2685.00	24.41	Н	10.0	6.0	20,45	33.0	-12.6	Pk

Rev. 11.02.2015 Note: For Band 4 EIRP limit is 30dBm

Fundamental Substitution Measurement (Fc > 1GHz) UL LLC, Chamber N

LTE B41 5MHz 16QAM

Company: SOMC Project #: 16.123833 Date: 07/20/2016 Test Engineer: Mark Nolting Configuration: Standalone (LTE sample #2) Mode: LTE 41, 10M, 16QAM

Test Equipment:
Substitution: Horn antenna AT0078, cable CBL055, and signal-source T374

f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	EIRP	Limit	Margin	Notes
MHz	(dBm)	(H/V)	(dB)	(dBi)	(dBm)	(dBm)	(dB)	
Low Ch			1					
2501.00	29.29	V	9.6	5.5	25.23	33.0	-7.8	Pk
2501.00	27.76	Н	9.6	5.5	23.70	33.0	-9.3	Pk
Mid Ch								
2593.00	30.47	V	9.8	5.8	26.44	33.0	-6.6	Pk
2593.00	28.76	Н	9.8	5.8	24.73	33.0	-8.3	Pk
High Ch								
2685.00	27.29	V	10.0	6.0	23.33	33.0	-9.7	Pk
2685.00	24.58	Н	10.0	6.0	20.61	33.0	-12.4	Pk
	24.58	Н		6.0				Pk

Rev. 11.02.2015 Note: For Band 4 EIRP limit is 30dBm

LTE B41 10MHz QPSK

undamental Substitution Measurement (Fc > 1GHz)	
UL LLC, Chamber N	

Company: SOMC Project #: 16J23633 Date: 07/20/2016 Test Engineer: Mark Nolting Configuration: Standalone (LTE sample #2) Mode: LTE 41, 15M, QPSK

Test Equipment:
Substitution: Horn antenna AT0078, cable CBL055, and signal-source T374

f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	EIRP	Limit	Margin	Notes
MHz	(dBm)	(H/V)	(dB)	(dBi)	(dBm)	(dBm)	(dB)	
Low Ch								
2503.50	29.09	V	9.6	5.5	25.03	33.0	-8.0	Pk
2503.50	27.75	Н	9.6	5.5	23.69	33.0	-9.3	Pk
Mid Ch								
2593.00	30.66	V	9.8	5.8	26.63	33.0	-6.4	Pk
2593.00	29.07	Н	9.8	5.8	25.04	33.0	-8.0	Pk
High Ch								
2682.50	27.42	V	10.0	6.0	23.46	33.0	-9.5	Pk
2682.50	24.79	Н	10.0	6.0	20.83	33.0	-12.2	Pk

LTE B41 15MHz QPSK

LTE B41 10MHz 16QAM

Fundamental Substitution Measurement (Fc > 1GHz) UL LLC, Chamber N

Company: SOMC Project #: 16J23633 Date: 07/20/2016 Test Engineer: Mark Nolting Configuration: Standalone (LTE sample #2) Mode: LTE 41, 15M, 16QAM

Test Equipment:
Substitution: Horn antenna AT0078, cable CBL055, and signal-source T374

f SC MHz	SG reading	Ant. Pol.	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin	Notes
	(dBm)	(H/V)					(dB)	
Low Ch								
2503.50	29.18	V	9.6	5.5	25.12	33.0	-7.9	Pk
2503.50	27.77	Н	9.6	5.5	23.71	33.0	-9.3	Pk
Mid Ch								
2593.00	30.62	V	9.8	5.8	26.58	33.0	-6.4	Pk
2593.00	29.02	Н	9.8	5.8	24.99	33.0	-8.0	Pk
High Ch								
2682.50	27.60	V	10.0	6.0	23.64	33.0	-9.4	Pk
2682.50	24.96	Н	10.0	6.0	21.00	33.0	-12.0	Pk

Rev. 11.02.2015 Note: For Band 4 EIRP limit is 30dBm

LTE B41 15MHz 16QAM

Fundamental Substitution Measurement (Fc > 1GHz) Fundamental Substitution Measurement (Fc > 1GHz) UL LLC, Chamber N UL LLC, Chamber N Company: SOMC
Project #: 16J23633
Date: 07/20/2016
Test Engineer: Mark Nolting
Configuration: Standalone (LTE sample #2)
Mode: LTE 41, 20M, QPSK Company: SOMC Project #: 16J23633 Date: 07/20/2016 Test Engineer: Mark Nolting Configuration: Standalone (LTE sample #2) Mode: LTE 41, 20M, 16QAM Test Equipment:
Substitution: Horn antenna AT0078, cable CBL055, and signal-source T374 Test Equipment:
Substitution: Horn antenna AT0078, cable CBL055, and signal-source T374 f SG reading Ant. Pol. Cable Loss Antenna Gain EIRP Limit Margin MHz (dBm) (H/V) (dB) (dBi) (dBm) (dBm) (dB) f SG reading Ant. Pol. Cable Loss Antenna Gain EIRP Limit Margin MHz (dBm) (H/V) (dB) (dBi) (dBm) (dBm) (dB) 9.6 9.6 Pk Pk 25.37 33.0 -7.6 24.02 33.0 -9.0 25.44 33.0 -7.6 24.10 33.0 8.9 26.55 33.0 -6.5 25.26 33.0 -7.7 26.53 33.0 -6.5 25.25 33.0 -7.7 5.8 5.8 Rev. 11.02.2015 Note: For Band 4 EIRP limit is 30dBn Rev. 11.02.2015 Note: For Band 4 EIRP limit is 30dBm LTE B41 20MHz QPSK LTE B41 20MHz 16QAM

DATE: 8/16/2016

REPORT NO: 16J23633A-E1V2 DATE: 8/16/2016

FCC ID: PY7-29752M

14.2. FIELD STRENGTH OF SPURIOUS RADIATION

RULE PART(S)

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

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 that 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.

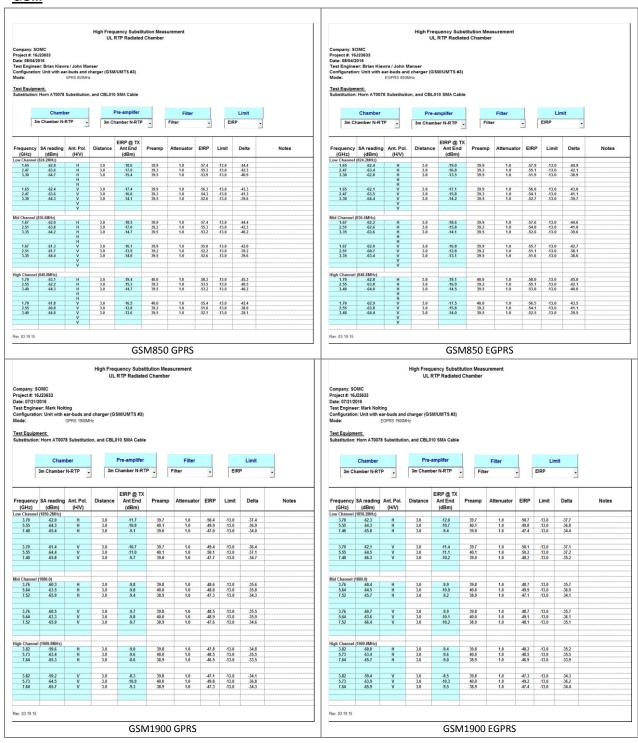
TEST PROCEDURE

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.

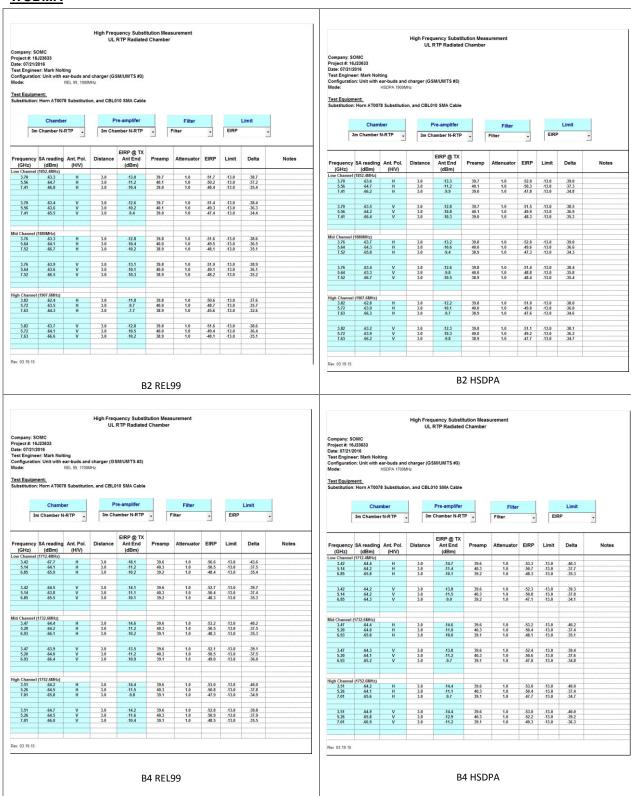
14.2.1. SPURIOUS RADIATION PLOTS

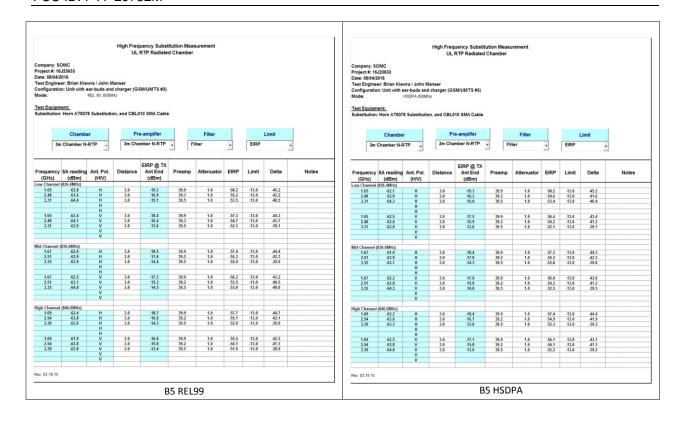
GSM



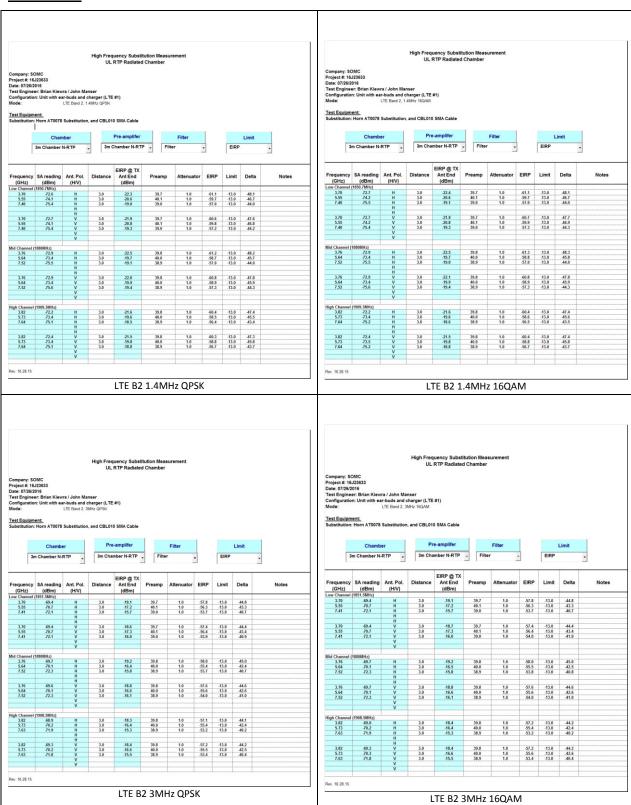
DATE: 8/16/2016

WCDMA

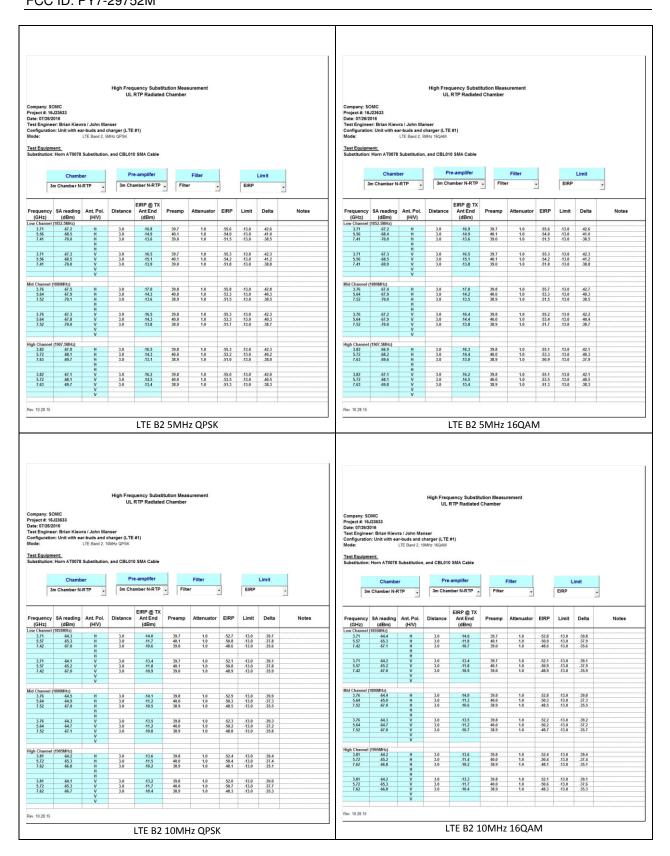




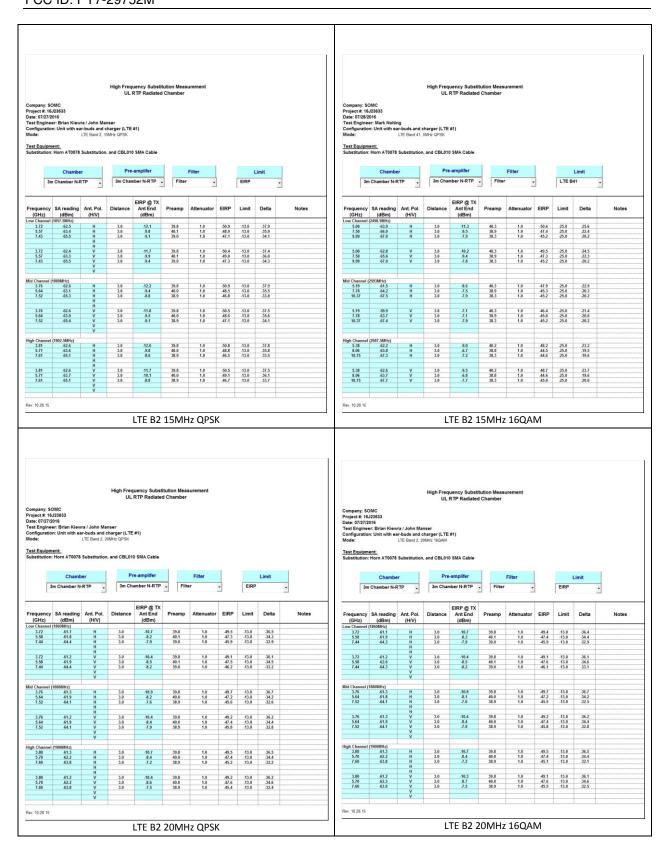
LTE Band 2



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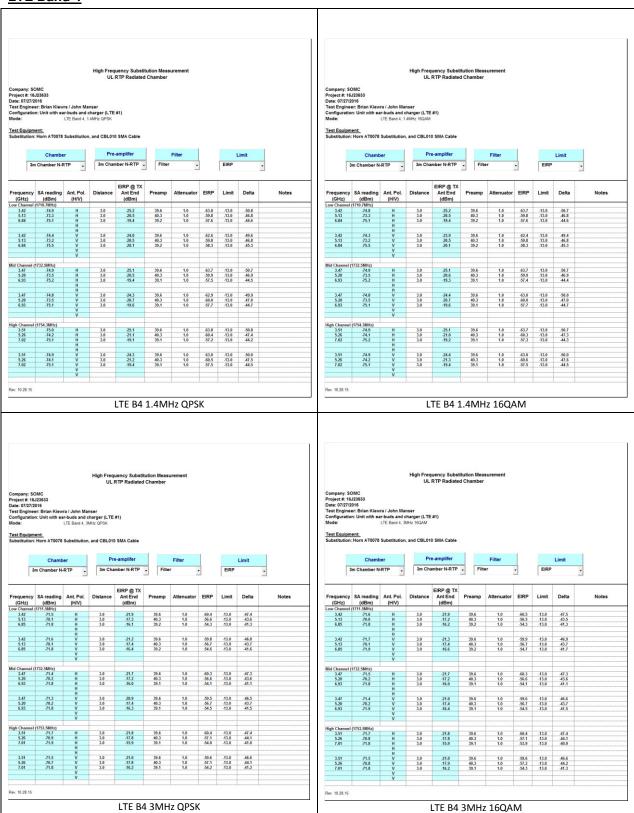


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LTE Band 4



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