



FCC CFR47 PART 22 SUBPART H
FCC CFR47 PART 24 SUBPART E
FCC CFR47 PART 27 SUBPART F
FCC CFR47 PART 27 SUBPART L
FCC CFR47 PART 27 SUBPART M
FCC CFR47 PART 90 SUBPART S

CERTIFICATION TEST REPORT

FOR

GSM/WCDMA/LTE Phone + BT/BLE and DTS/UNII a/b/g/n/ac, ANT+ and NFC

MODEL NUMBER : SM-N9208

FCC ID: A3LSMN9208

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: SAMSUNG ELECTRONICS CO., LTD.
EUT DESCRIPTION: GSM/WCDMA/LTE Phone +BT/BLE, DTS/UNII a/b/g/n/ac, ANT+ and NFC
MODEL NUMBER: SM-N9208
SERIAL NUMBER: R38G50YGR2N (RADIATED); R38G50YGN0E (CONDUCTED)
DATE TESTED: JUN 21 - JUL 11, 2015

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC PART 22H, 24E, 27F, 27L, 27M and 90S	Pass

UL Korea, Ltd. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by UL Korea, Ltd. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by UL Korea, Ltd. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Korea, Ltd. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by IAS, any agency of the Federal Government, or any agency of any government.

Approved & Released For
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CY Choi
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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with TIA-603-C, FCC CFR 47 Part 22, FCC CFR Part 24, FCC CFR Part 27 and FCC CFR Part 90.

3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 218 Maeyeong-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 443-823, Korea. Line conducted emissions are measured only at the 218 address. The following table identifies which facilities were utilized for radiated emission measurements documented in this report. Specific facilities are also identified in the test results sections.

218 Maeyeong-ro	
☐	Chamber 1
☒	Chamber 2

UL Korea, Ltd. is accredited by IAS, Laboratory Code TL-637. The full scope of accreditation can be viewed at <http://www.iasonline.org/PDF/TL/TL-637.pdf>.

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

4.2. SAMPLE CALCULATION

Where relevant, the following sample calculation is provided:

$$\text{EIRP} = \text{PSA reading with EUT worst orientation (dBm)} + \text{Path loss (dB)} - \text{cable loss (between the SG and substitution antenna)} + \text{Substitution Antenna Factor (dBi)}$$

$$\text{ERP} = \text{PSA reading with EUT worst orientation (dBm)} + \text{Path loss (dB)} - \text{cable loss (between the SG and substitution antenna)}$$

(Path loss = Signal generator output – PSA reading with substitution antenna)

4.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	UNCERTAINTY
Conducted Disturbance, 0.15 to 30 MHz	2.32 dB
Radiated Disturbance, Below 1GHz	4.14 dB
Radiated Disturbance, Above 1 GHz	5.97 dB

Uncertainty figures are valid to a confidence level of 95%.

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The EUT is a GSM/WCDMA/LTE Phone + BT/BLE, DTS/UNII a/b/g/n/ac, ANT+ and NFC.

5.2. MAXIMUM OUTPUT POWER (LTE)

The transmitter has a maximum peak conducted and radiated ERP / EIRP output powers as follows:

LTE Band 41

Band	Frequency Range [MHz]	BandWidth [MHz]	Modulation Peak	Conducted		Radiated	
				Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
Band 41	2496 ~ 2690	20	QPSK	23.94	247.74	12.51	17.82
			16QAM	23.00	199.53	11.70	14.79
		15	QPSK	23.95	248.31	12.75	18.84
			16QAM	23.00	199.53	10.90	12.30
		10	QPSK	23.95	248.31	11.84	15.28
			16QAM	23.00	199.53	11.24	13.30
		5	QPSK	24.00	251.19	16.78	47.64
			16QAM	23.00	199.53	10.12	10.28

LTE Band 26 (Part90)

Band	Frequency Range [MHz]	BandWidth [MHz]	Modulation Peak	Conducted		Radiated	
				Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
Band 26	814 ~ 824	10	QPSK	23.50	223.87	12.91	19.54
			16QAM	22.42	174.58	11.89	15.45
		5	QPSK	23.50	223.87	13.27	21.23
			16QAM	22.50	177.83	12.10	16.22
		3	QPSK	23.50	223.87	12.99	19.91
			16QAM	22.50	177.83	11.99	15.81
		1.4	QPSK	23.50	223.87	11.13	12.97
			16QAM	22.44	175.39	10.08	10.19

LTE Band 26 (Part22)

Band	Frequency Range [MHz]	BandWidth [MHz]	Modulation Peak	Conducted		Radiated	
				Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
Band 26	824 ~ 849	15	QPSK	23.50	223.87	11.64	14.59
			16QAM	22.50	177.83	10.58	11.43
		10	QPSK	23.50	223.87	12.07	16.11
			16QAM	22.50	177.83	11.00	12.59
		5	QPSK	23.50	223.87	11.66	14.66
			16QAM	22.50	177.83	10.66	11.64
		3	QPSK	23.50	223.87	11.90	15.49
			16QAM	22.50	177.83	10.90	12.30
		1.4	QPSK	23.50	223.87	10.09	10.21
			16QAM	22.50	177.83	9.11	8.15

LTE Band 25

Band	Frequency Range [MHz]	BandWidth [MHz]	Modulation Peak	Conducted		Radiated	
				Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
Band 25	1850 ~ 1915	20	QPSK	23.50	223.87	22.10	162.18
			16QAM	22.50	177.83	21.07	127.94
		15	QPSK	23.50	223.87	22.21	166.34
			16QAM	22.50	177.83	21.23	132.74
		10	QPSK	23.50	223.87	22.00	158.49
			16QAM	22.50	177.83	20.97	125.03
		5	QPSK	23.50	223.87	21.57	143.55
			16QAM	22.50	177.83	20.57	114.02
		3	QPSK	23.50	223.87	21.61	144.88
			16QAM	22.50	177.83	20.63	115.61
		1.4	QPSK	23.50	223.87	19.42	87.50
			16QAM	22.50	177.83	18.43	69.66

LTE Band 17

Due to frequency range and same output power setting, test was carried in LTE Band 12 to cover both LTE Band 12 and LTE Band 17.

LTE Band 12

Band	Frequency Range [MHz]	BandWidth [MHz]	Modulation Peak	Conducted		Radiated	
				Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
Band 12	699 ~ 716	10	QPSK	23.37	217.27	14.07	25.53
			16QAM	22.50	177.83	12.99	19.91
		5	QPSK	23.37	217.27	14.35	27.23
			16QAM	22.50	177.83	13.82	24.10
		3	QPSK	23.34	215.77	14.26	26.67
			16QAM	22.50	177.83	13.72	23.55
		1.4	QPSK	23.39	218.27	14.32	27.04
			16QAM	22.50	177.83	13.73	23.60

LTE Band 5

Due to frequency range and same output power setting, test was carried in LTE Band 26 to cover both LTE Band 26 and LTE Band 5.

LTE Band 4

Band	Frequency Range [MHz]	BandWidth [MHz]	Modulation Peak	Conducted		Radiated	
				Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
Band 4	1710 ~ 1755	20	QPSK	23.50	223.87	21.51	141.58
			16QAM	22.50	177.83	20.43	110.41
		15	QPSK	23.47	222.33	21.65	146.22
			16QAM	22.50	177.83	20.61	115.08
		10	QPSK	23.50	223.87	21.73	148.94
			16QAM	22.50	177.83	20.73	118.30
		5	QPSK	23.50	223.87	21.66	146.55
			16QAM	22.50	177.83	20.68	116.95
		3	QPSK	23.50	223.87	21.66	146.55
			16QAM	22.50	177.83	20.64	115.88
		1.4	QPSK	23.50	223.87	19.78	95.06
			16QAM	22.50	177.83	18.78	75.51

LTE Band 2

Due to frequency range and same output power setting, test was carried in LTE Band 25 to cover both LTE Band 25 and LTE Band 2.

5.3. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes a FPCB antenna for the [List the bands supported] with a maximum peak gain as follow:

Frequency (MHz)	Peak Gain (dBi)
LTE Band 41 2496 ~ 2690 MHz	-1.69
LTE Band 26 / Band 5 814 ~ 849 MHz	-3.42
LTE Band 25 / Band 2 1850 ~ 1915 MHz	-1.96
LTE Band 12 / Band 17 699 ~ 716 MHz	-3.05
LTE Band 4 1710 ~ 1755 MHz	-1.98

5.4. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID
Charger	SAMSUNG	EP-TA20CBC	R37FCPc00R1DK3	N/A
Data Cable	SAMSUNG	EP-DG925UWE	N/A	N/A
Earphone	SAMSUNG	EO-EG920LW	N/A	N/A

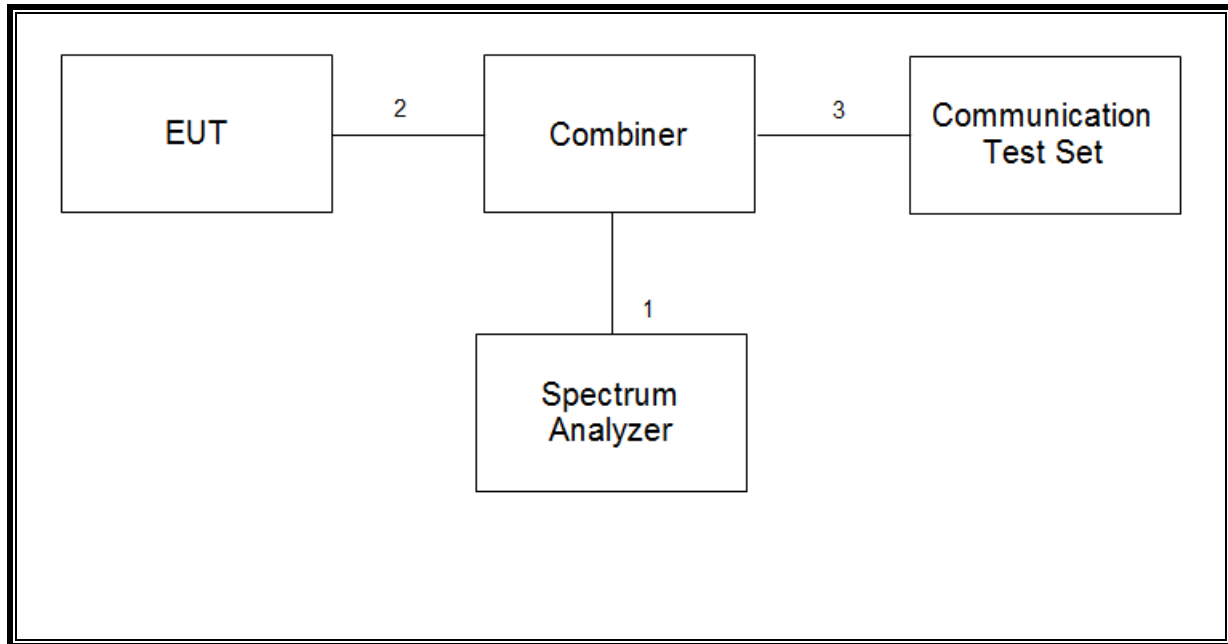
I/O CABLES

I/O Cable List						
Cable No	Port	# of identical ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	DC Power	1	Mini-USB	Shielded	0.8m	N/A
2	Audio	1	Mini-Jack	Unshielded	1.0m	N/A

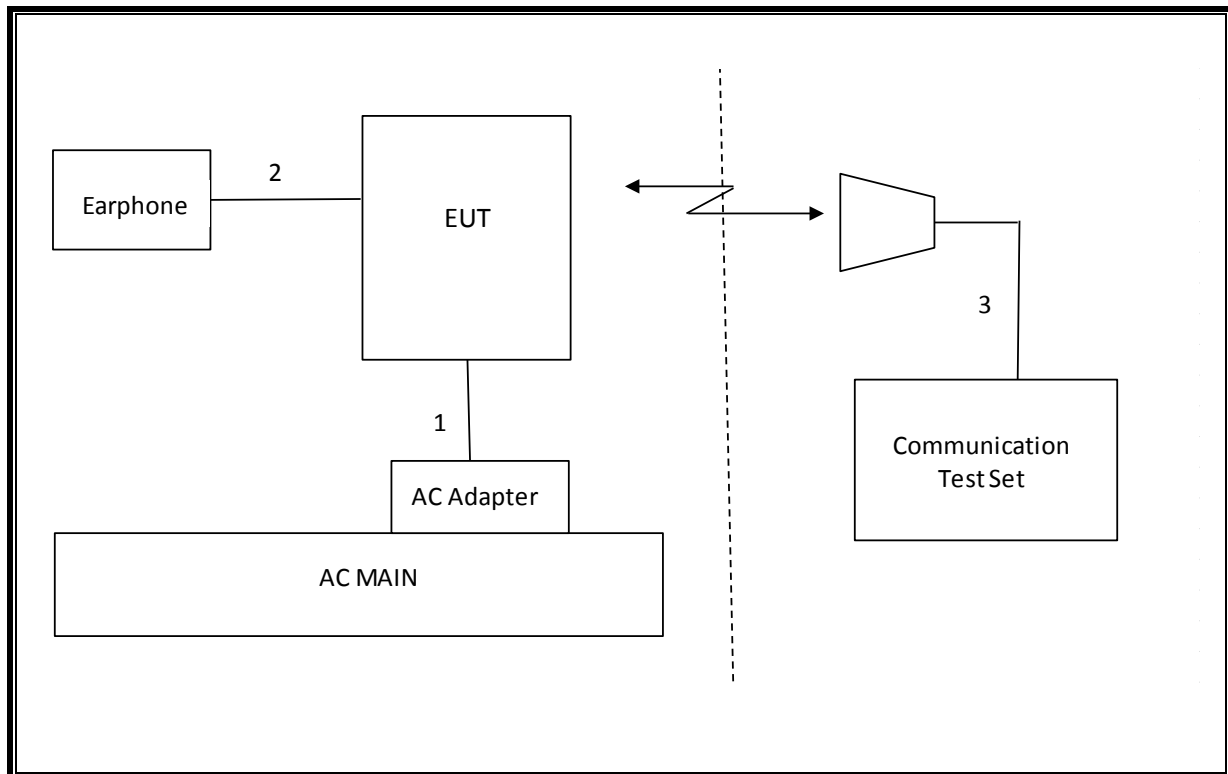
TEST SETUP

The EUT is continuously communicated to the call box during the tests.

SETUP DIAGRAM FOR TESTS (CONDUCTED TEST SETUP)



SETUP DIAGRAM FOR TESTS (RADIATED TEST SETUP)



6. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

Test Equipment List				
Description	Manufacturer	Model	S/N	Cal Due
Antenna, Tuned Dipole 400~1000 MHz	ETS	3121D DB4	00164753	07-29-15
Antenna, Bilog, 30MHz-1GHz	SCHWARZBECK	VULB9163	950	11-17-15
Antenna, Bilog, 30MHz-1GHz	SCHWARZBECK	VULB9163	749	04-25-16
Antenna, Horn, 18 GHz	ETS	3115	00167211	09-20-15
Antenna, Horn, 18 GHz	ETS	3115	00161451	05-17-16
Antenna, Horn, 18 GHz	ETS	3117	00168724	06-17-16
Antenna, Horn, 18 GHz	ETS	3117	00168717	06-17-16
Antenna, Horn, 40 GHz	ETS	3116C	00166255	09-23-15
Antenna, Horn, 40 GHz	ETS	3116C-PA	00168841	09-29-15
Preamplifier, 1000 MHz	Sonoma	310N	341282	11-17-15
Preamplifier, 18 GHz	Miteq	AFS42-00101800-25-S-42	1876511	11-18-15
Spectrum Analyzer, 44 GHz	Agilent / HP	N9030A	MY54170614	09-23-15
Communications Test Set	R&S	CMW500	150312	08-13-15
Average Power Sensor	R&S	NRZ-Z91	102681	11-17-15
Average Power Sensor	Agilent / HP	U2000	MY54270007	09-23-15
EMI Test Receive, 40 GHz	R&S	ESU40	100439	11-17-15
EMI Test Receive, 3 GHz	R&S	ESR3	101832	11-17-15
Attenuator / Switch driver	HP	11713A	3748A04272	N/A
Low Pass Filter 3GHz	Micro-Tronics	LPS17541	009	11-17-15
High Pass Filter 5GHz	Micro-Tronics	HPS17542	009	11-17-15
High Pass Filter 6GHz	Micro-Tronics	HPM17543	010	11-17-15
Combiner	WEINSCHTEL	1575	2153	11-17-15
Temperature Chamber	ESPEC	SH-642	93001109	11-13-15
DC Power Supply	Agilent / HP	E3640A	MY54226395	09-23-15

7. Summary Table

FCC Part Section	Test Description	Test Limit	Test Condition	Test Result	Note
2.1049	Occupied Band width (99%)	N/A	Conducted	Pass	17.911 MHz
22.917(a) 24.238(a) 27.53(g) 90.691	Band Edge / Conducted Spurious Emission	-13dBm		Pass	-15.393 dBm
27.53(m)		-25dBm		Pass	-30.3 dBm
2.1046	Conducted output power	N/A		Pass	24.0 dBm
27.53(m) 90.691	Emission Mask			Pass	-30.25 dBm
22.355 24.235 27.54 90.213	Frequency Stability	2.5PPM		Pass	0.057 PPM
22.913(a)(2)	Effective Radiated Power	38 dBm	Radiated	Pass	12.07 dBm
27.50(c)(10)		34.77 dBm		Pass	14.35 dBm
90.635		50 dBm		Pass	13.27 dBm
24.232(c) 27.50(h)(2)	Equivalent Isotropic Radiated Power	33dBm		Pass	22.21 dBm
27.50(d)(4)		30dBm		Pass	16.78 dBm
22.917(a) 24.238(a) 27.53(g)	Radiated Spurious Emission	-13dBm		Pass	-58.3 dBm
27.53(m)		-25dBm		Pass	-57.7 dBm

FCC Rule Part	Frequency Range [MHz]	Output Power [W]	Frequency Tolerance	Emission Designator	Emission Bandwidth [MHz]	Communication Type
LTE Band 2 / Band 25						
24E	1860.0 - 1905.0	0.162	2.5 ppm	17M9G7D	20	QPSK
24E	1860.0 - 1905.0	0.128	2.5 ppm	17M9D7W	20	16QAM
24E	1857.5 - 1907.5	0.166	2.5 ppm	13M5G7D	15	QPSK
24E	1857.5 - 1907.5	0.133	2.5 ppm	13M4D7W	15	16QAM
LTE Band 4						
27L	1720.0 - 1745.0	0.142	2.5 ppm	17M9G7D	20	QPSK
27L	1720.0 - 1745.0	0.110	2.5 ppm	17M9D7W	20	16QAM
27L	1715.0 - 1750.0	0.149	2.5 ppm	8M98G7D	10	QPSK
27L	1715.0 - 1750.0	0.118	2.5 ppm	8M99D7W	10	16QAM
LTE Band 5						
22H	829.0 - 844.0	0.016	2.5 ppm	8M97G7D	10	QPSK
22H	829.0 - 844.0	0.013	2.5 ppm	9M00D7W	10	16QAM
LTE Band 26						
22H	831.5 - 841.5	0.015	2.5 ppm	13M5G7D	15	QPSK
22H	831.5 - 841.5	0.011	2.5 ppm	13M4D7W	15	16QAM
22H	829.0 - 844.0	0.016	2.5 ppm	8M97G7D	10	QPSK
22H	829.0 - 844.0	0.013	2.5 ppm	9M00D7W	10	16QAM
LTE Band 26						
90S	819.0 - 819.0	0.020	2.5 ppm	8M96G7D	10	QPSK
90S	819.0 - 819.0	0.015	2.5 ppm	8M97D7W	10	16QAM
90S	816.5 - 821.5	0.021	2.5 ppm	4M51G7D	5	QPSK
90S	816.5 - 821.5	0.016	2.5 ppm	4M51D7W	5	16QAM
LTE Band 12 / Band 17						
27H	704.0 - 711.0	0.026	2.5 ppm	8M97G7D	10	QPSK
27H	704.0 - 711.0	0.020	2.5 ppm	8M97D7W	10	16QAM
27H	701.5 - 713.5	0.027	2.5 ppm	4M51G7D	5	QPSK
27H	701.5 - 713.5	0.024	2.5 ppm	4M51D7W	5	16QAM
LTE Band 41						
27M	2506.0 - 2680.0	0.018	2.5 ppm	17M9G7D	20	QPSK
27M	2506.0 - 2680.0	0.015	2.5 ppm	17M9D7W	20	16QAM
27M	2498.5 - 2687.5	0.048	2.5 ppm	4M51G7D	5	QPSK

8. RF POWER OUTPUT VERIFICATION

8.1. LTE OUTPUT VERIFICATION

The following tests were conducted according to the test requirements outlined in section 6.2 of the 3GPP TS36.101 specification.

UE Power Class: 3 (23 +/- 2dBm). The allowed Maximum Power Reduction (MPR) for the maximum output power due to higher order modulation and transmit bandwidth configuration (resource blocks) is specified in Table 6.2.3-1 of the 3GPP TS36.101.

Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 3

Modulation	Channel bandwidth / Transmission bandwidth (RB)						MPR (dB)
	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz	
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2

The allowed A-MPR values specified below in Table 6.2.4.-1 of 3GPP TS36.101 are in addition to the allowed MPR requirements. All the measurements below were performed with A-MPR disabled, by using Network Signalling Value of "NS_01".

Table 6.2.4-1: Additional Maximum Power Reduction (A-MPR)

Network Signalling value	Requirements (sub-clause)	E-UTRA Band	Channel bandwidth (MHz)	Resources Blocks (N_{RB})	A-MPR (dB)
NS_01	6.6.2.1.1	Table 5.5-1	1.4, 3, 5, 10, 15, 20	Table 5.6-1	NA
NS_03	6.6.2.2.1	2, 4, 10, 23, 25, 35, 36	3	>5	≤ 1
			5	>6	≤ 1
			10	>6	≤ 1
			15	>8	≤ 1
			20	>10	≤ 1
NS_04	6.6.2.2.2	41	5	>6	≤ 1
			10, 15, 20	See Table 6.2.4-4	
NS_05	6.6.3.3.1	1	10,15,20	≥ 50	≤ 1
NS_06	6.6.2.2.3	12, 13, 14, 17	1.4, 3, 5, 10	Table 5.6-1	n/a
NS_07	6.6.2.2.3 6.6.3.3.2	13	10	Table 6.2.4-2	Table 6.2.4-2
NS_08	6.6.3.3.3	19	10, 15	> 44	≤ 3
NS_09	6.6.3.3.4	21	10, 15	> 40	≤ 1
				> 55	≤ 2
NS_10		20	15, 20	Table 6.2.4-3	Table 6.2.4-3
NS_11	6.6.2.2.1	23 ¹	1.4, 3, 5, 10	Table 6.2.4-5	Table 6.2.4-5
..					
NS_32	-	-	-	-	-

Note 1: Applies to the lower block of Band 23, i.e. a carrier placed in the 2000-2010 MHz region.

8.1.1. LTE OUTPUT POWER RESULT

LTE Band 41 Measured Results

Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Avg Pwr (dBm)		
						39750	40620	41490
						2506 MHz	2593 MHz	2680 MHz
LTE Band 41	20	QPSK	1	0	0	23.21	23.87	23.84
			1	49	0	23.19	23.94	23.90
			1	99	0	23.15	23.80	23.76
			50	0	1	22.13	22.76	22.74
			50	24	1	22.06	22.72	22.78
			50	50	1	21.96	22.64	22.73
			100	0	1	21.98	22.73	22.78
		16QAM	1	0	1	22.52	22.72	23.00
			1	49	1	22.46	22.88	23.00
			1	99	1	21.96	22.60	22.80
			50	0	2	20.97	21.68	21.76
			50	24	2	20.99	21.64	21.73
			50	50	2	20.92	21.57	21.73
			100	0	2	20.96	21.68	21.77
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Avg Pwr (dBm)		
						39725	40620	41515
						2503.5 MHz	2593 MHz	2682.5 MHz
LTE Band 41	15	QPSK	1	0	0	23.33	23.95	23.71
			1	37	0	23.26	23.86	23.72
			1	74	0	23.19	23.82	23.67
			36	0	1	22.23	22.75	22.66
			36	20	1	22.19	22.75	22.55
			36	39	1	22.11	22.62	22.59
			75	0	1	22.09	22.66	22.67
		16QAM	1	0	1	21.85	22.86	22.53
			1	37	1	21.70	23.00	22.25
			1	74	1	21.74	22.99	22.60
			36	0	2	21.17	21.70	21.61
			36	20	2	21.12	21.66	21.56
			36	39	2	21.10	21.63	21.58
			75	0	2	21.03	21.69	21.62
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Avg Pwr (dBm)		
						39700	40620	41540
						2501 MHz	2593 MHz	2685 MHz
LTE Band 41	10	QPSK	1	0	0	23.24	23.95	23.75
			1	25	0	23.19	23.90	23.83
			1	49	0	23.20	23.94	23.56
			25	0	1	22.22	22.72	22.74
			25	12	1	22.19	22.74	22.72
			25	25	1	22.04	22.66	22.71
		16QAM	50	0	1	22.13	22.69	22.81
			1	0	1	21.90	22.87	23.00
			1	25	1	21.85	22.83	23.00
			1	49	1	21.86	22.81	22.86
			25	0	2	21.14	21.58	21.75
			25	12	2	21.12	21.60	21.67
			25	25	2	20.97	21.53	21.69
			50	0	2	21.05	21.59	21.70
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Avg Pwr (dBm)		
						39675	40620	41565
						2498.5 MHz	2593 MHz	2687.5 MHz
LTE Band 41	5	QPSK	1	0	0	23.29	23.84	23.89
			1	12	0	23.39	23.96	23.93
			1	24	0	23.25	23.89	24.00
			12	0	1	22.17	22.73	22.82
			12	7	1	22.11	22.70	22.71
			12	13	1	22.11	22.65	22.74
		16QAM	25	0	1	22.06	22.65	22.82
			1	0	1	22.37	23.00	23.00
			1	12	1	22.07	22.88	23.00
			1	24	1	22.20	23.00	23.00
			12	0	2	21.04	21.50	21.75
			12	7	2	20.98	21.53	21.68
			12	13	2	20.99	21.49	21.73
			25	0	2	21.16	21.53	21.82

LTE Band 26 Measured Results

Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Avg Pwr (dBm)					
							26865		26965		
LTE Band 26	15	QPSK	1	0	0		23.48		23.50		
			1	37	0		23.48		23.50		
			1	74	0		23.35		23.49		
			36	0	1		22.24		22.41		
			36	20	1		22.27		22.40		
			36	39	1		22.33		22.34		
			75	0	1		22.20		22.40		
		16QAM	1	0	1		22.50		22.50		
			1	37	1		22.50		22.50		
			1	74	1		22.50		22.50		
			36	0	2		21.09		21.35		
			36	20	2		21.22		21.29		
			36	39	2		21.18		21.24		
			75	0	2		21.08		21.35		
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Avg Pwr (dBm)					
						26740	26840	26865	26915	26990	
LTE Band 26	10	QPSK	1	0	0	819 MHz	829 MHz	831.5 MHz	836.5 MHz	844 MHz	
			1	25	0	23.50	23.49	23.50	23.50	23.50	
			1	49	0	23.50	23.48	23.50	23.50	23.50	
			25	0	1	22.10	22.13	22.19	22.32	22.50	
			25	12	1	22.22	22.11	22.32	22.29	22.36	
			25	25	1	22.22	22.10	22.28	22.23	22.40	
			50	0	1	22.12	22.12	22.23	22.35	22.36	
		16QAM	1	0	1	22.42	22.49	22.50	22.50	22.50	
			1	25	1	22.39	22.50	22.50	22.50	22.50	
			1	49	1	22.34	22.50	22.50	22.50	22.50	
			25	0	2	21.10	21.07	21.16	21.16	21.31	
			25	12	2	21.12	21.10	21.18	21.15	21.25	
			25	25	2	21.12	20.99	21.09	21.03	21.30	
			50	0	2	21.07	21.00	21.16	21.15	21.27	
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Avg Pwr (dBm)					
						26715	26740	26765	26815	26865	27015
LTE Band 26	5	QPSK	1	0	0	816.5 MHz	819 MHz	821.5MHz	826.5MHz	831.5 MHz	840.5 MHz
			1	12	0	23.45	23.48	23.50	23.39	23.39	23.50
			1	24	0	23.44	23.47	23.49	23.32	23.40	23.50
			1	24	0	23.39	23.42	23.47	23.40	23.39	23.45
			12	0	1	22.21	22.39	22.40	22.11	22.24	22.37
			12	7	1	22.24	22.39	22.44	22.14	22.23	22.36
			12	13	1	22.27	22.31	22.38	22.12	22.21	22.35
		16QAM	25	0	1	22.17	22.28	22.35	22.02	22.19	22.35
			1	0	1	22.50	22.49	22.48	22.48	22.50	22.50
			1	12	1	22.39	22.49	22.46	22.40	22.50	22.43
			1	24	1	22.36	22.46	22.47	22.49	22.50	22.50
			12	0	2	21.09	21.26	21.22	20.99	21.08	21.37
			12	7	2	21.15	21.26	21.25	21.00	21.02	21.27
			12	13	2	21.04	21.27	21.28	20.97	21.00	21.28
			25	0	2	21.07	21.18	21.33	21.03	21.04	21.28

LTE Band 26 Measured Results(continued)

Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Avg Pwr (dBm)						
						26705	26740	26775	26805	26865	26915	27025
						819.5 MHz	819 MHz	823.5 MHz	824.7 MHz	831.5 MHz	836.5 MHz	847.5 MHz
LTE Band 26	3	QPSK	1	0	0	23.43	23.48	23.50	23.45	23.50	23.50	23.50
			1	8	0	23.50	23.49	23.50	23.47	23.50	23.50	23.50
			1	14	0	23.50	23.46	23.47	23.50	23.50	23.48	23.50
			8	0	1	22.20	22.41	22.45	22.13	22.31	22.28	22.38
			8	4	1	22.23	22.31	22.46	22.15	22.29	22.20	22.37
			8	7	1	22.20	22.31	22.47	22.19	22.30	22.14	22.31
			15	0	1	22.13	22.30	22.45	22.15	22.26	22.20	22.32
		16QAM	1	0	1	22.50	22.50	22.50	22.44	22.50	22.50	22.50
			1	8	1	22.45	22.48	22.48	22.34	22.50	22.50	22.50
			1	14	1	22.50	22.47	22.50	22.39	22.50	22.50	22.50
			8	0	2	21.06	21.24	21.29	20.96	21.07	21.08	21.23
			8	4	2	21.03	21.27	21.33	21.03	21.09	21.04	21.25
			8	7	2	21.13	21.25	21.35	20.97	21.07	20.99	21.18
			15	0	2	21.07	21.21	21.33	20.95	21.14	21.14	21.19
LTE Band 26	1.4	QPSK	1	0	0	23.43	23.48	23.48	23.50	23.50	23.50	23.50
			1	3	0	23.46	23.47	23.50	23.50	23.50	23.50	23.50
			1	5	0	23.48	23.46	23.46	23.50	23.48	23.50	23.50
			3	0	0	23.21	23.45	23.46	23.34	23.35	23.35	23.50
			3	1	0	23.29	23.49	23.31	23.28	23.36	23.36	23.46
			3	3	0	23.32	23.48	23.39	23.30	23.34	23.31	23.37
			6	0	1	22.19	22.30	22.41	22.21	22.26	22.29	22.29
		16QAM	1	0	1	22.44	22.42	22.43	22.50	22.50	22.50	22.40
			1	3	1	22.38	22.43	22.42	22.00	22.50	22.50	22.50
			1	5	1	22.41	22.43	22.44	22.50	22.50	22.50	22.45
			3	0	1	22.17	22.32	22.36	22.21	22.20	22.32	22.38
			3	1	1	22.17	22.28	22.23	22.21	22.33	22.20	22.50
			3	3	1	22.26	22.32	22.36	22.23	22.23	22.19	22.50
			6	0	2	20.96	21.11	21.26	20.95	21.05	21.03	21.05

LTE Band 25 Measured Results

Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Avg Pwr (dBm)		
						26140	26365	26590
						1860 MHz	1882.5 MHz	1905 MHz
LTE Band 25	20	QPSK	1	0	0	23.45	23.50	23.03
			1	49	0	23.24	23.50	23.00
			1	99	0	23.19	23.50	22.88
			50	0	1	22.16	22.44	21.91
			50	24	1	22.10	22.48	21.87
			50	50	1	22.03	22.37	21.75
			100	0	1	21.99	22.42	21.79
		16QAM	1	0	1	22.34	22.50	22.26
			1	49	1	22.33	22.50	22.24
			1	99	1	22.21	22.50	22.07
			50	0	2	21.07	21.32	20.81
			50	24	2	21.04	21.41	20.71
			50	50	2	20.93	21.31	20.61
			100	0	2	20.98	21.23	20.76
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Avg Pwr (dBm)		
						26115	26365	26615
						1857.5 MHz	1882.5 MHz	1907.5 MHz
LTE Band 25	15	QPSK	1	0	0	23.16	23.50	22.95
			1	37	0	23.22	23.50	22.98
			1	74	0	23.04	23.50	22.84
			36	0	1	21.96	22.47	21.83
			36	20	1	21.97	22.47	21.77
			36	39	1	21.92	22.45	21.68
			75	0	1	21.88	22.40	21.75
		16QAM	1	0	1	22.30	22.50	22.02
			1	37	1	22.30	22.50	22.01
			1	74	1	22.20	22.50	21.91
			36	0	2	20.84	21.32	20.73
			36	20	2	20.85	21.25	20.58
			36	39	2	20.82	21.22	20.62
			75	0	2	20.80	21.22	20.66
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Avg Pwr (dBm)		
						26090	26365	26640
						1855 MHz	1882.5 MHz	1910 MHz
LTE Band 25	10	QPSK	1	0	0	23.09	23.50	22.84
			1	25	0	23.15	23.50	22.76
			1	49	0	23.10	23.50	22.72
			25	0	1	21.78	22.34	21.59
			25	12	1	21.88	22.41	21.48
			25	25	1	21.82	22.43	21.49
			50	0	1	21.80	22.34	21.59
		16QAM	1	0	1	22.25	22.50	22.18
			1	25	1	22.25	22.50	22.02
			1	49	1	22.21	22.50	22.09
			25	0	2	20.74	21.20	20.56
			25	12	2	20.84	21.25	20.46
			25	25	2	20.78	21.25	20.49
			50	0	2	20.74	21.22	20.54

LTE Band 25 Measured Results(continued)

Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Avg Pwr (dBm)		
						26065	26365	26665
						1852.5 MHz	1882.5 MHz	1912.5 MHz
LTE Band 25	5	QPSK	1	0	0	22.96	23.50	22.83
			1	12	0	23.03	23.50	22.75
			1	24	0	23.08	23.50	22.77
			12	0	1	21.79	22.33	21.71
			12	7	1	21.78	22.32	21.52
			12	13	1	21.87	22.39	21.63
			25	0	1	21.77	22.34	21.64
		16QAM	1	0	1	22.13	22.50	22.11
			1	12	1	22.11	22.50	22.06
			1	24	1	22.11	22.50	22.06
			12	0	2	20.71	21.18	20.60
			12	7	2	20.81	21.23	20.49
			12	13	2	20.80	21.29	20.49
			25	0	2	20.70	21.19	20.61
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Avg Pwr (dBm)		
						26055	26365	26675
						1851.5 MHz	1882.5 MHz	1913.5 MHz
LTE Band 25	3	QPSK	1	0	0	23.02	23.50	23.00
			1	8	0	23.07	23.50	22.85
			1	14	0	23.10	23.50	22.92
			8	0	1	21.79	22.41	21.64
			8	4	1	21.85	22.38	21.63
			8	7	1	21.90	22.39	21.60
			15	0	1	21.76	22.28	21.60
		16QAM	1	0	1	22.31	22.50	22.12
			1	8	1	22.27	22.50	22.01
			1	14	1	22.33	22.50	22.03
			8	0	2	20.65	21.14	20.46
			8	4	2	20.69	21.13	20.36
			8	7	2	20.75	21.08	20.43
			15	0	2	20.72	21.21	20.44
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Avg Pwr (dBm)		
						26047	26365	26683
						1850.7 MHz	1882.5 MHz	1914.3 MHz
LTE Band 25	1.4	QPSK	1	0	0	23.06	23.50	22.86
			1	3	0	23.09	23.50	22.88
			1	5	0	23.19	23.50	22.82
			3	0	0	22.95	23.47	22.75
			3	1	0	22.97	22.50	22.78
			3	3	0	23.01	23.44	22.75
			6	0	1	21.79	22.32	21.56
		16QAM	1	0	1	22.18	22.50	22.11
			1	3	1	22.13	22.50	22.09
			1	5	1	22.21	22.50	22.14
			3	0	1	21.83	22.46	21.71
			3	1	1	21.89	22.41	21.71
			3	3	1	21.81	22.49	21.69
			6	0	2	20.69	21.13	20.40

LTE Band 17

Due to frequency range and same output power setting, test was carried in LTE Band 12 to cover both LTE Band 12 and LTE Band 17.

LTE Band 12 Measured Results

Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Avg Pwr (dBm)		
						23060	23095	23130
						704 MHz	707.5 MHz	711 MHz
LTE Band 12	10	QPSK	1	0	0	23.36	23.24	23.27
			1	25	0	23.28	23.20	23.27
			1	49	0	23.37	23.15	23.23
			25	0	1	22.08	22.02	22.09
			25	12	1	22.08	21.96	22.00
			25	25	1	22.05	21.96	21.91
		16QAM	50	0	1	21.97	21.87	22.01
			1	0	1	22.45	22.20	22.49
			1	25	1	22.34	22.03	22.50
			1	49	1	22.32	22.01	22.38
			25	0	2	21.02	20.96	20.98
			25	12	2	21.00	20.92	20.90
			25	25	2	21.01	20.93	20.85
			50	0	2	21.01	20.89	20.89
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Avg Pwr (dBm)		
						23035	23095	23155
						701.5 MHz	707.5 MHz	713.5 MHz
LTE Band 12	5	QPSK	1	0	0	23.15	23.33	23.11
			1	12	0	23.02	23.24	23.03
			1	24	0	23.03	23.37	23.08
			12	0	1	22.02	21.95	21.98
			12	7	1	21.92	22.02	21.93
			12	13	1	21.85	22.00	21.88
		16QAM	25	0	1	21.96	21.93	21.99
			1	0	1	22.36	22.26	22.50
			1	12	1	22.18	22.21	22.45
			1	24	1	22.19	22.25	22.49
			12	0	2	20.87	20.82	20.91
			12	7	2	20.77	20.88	20.87
			12	13	2	20.82	20.84	20.82
			25	0	2	21.02	20.82	20.90
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Avg Pwr (dBm)		
						23025	23095	23165
						700.5 MHz	707.5 MHz	714.5 MHz
LTE Band 12	3	QPSK	1	0	0	23.25	23.29	23.25
			1	8	0	23.23	23.27	23.09
			1	14	0	23.28	23.34	23.12
			8	0	1	22.09	21.98	21.94
			8	4	1	21.91	21.99	21.82
			8	7	1	21.88	22.05	21.83
		16QAM	15	0	1	21.92	21.98	21.84
			1	0	1	22.24	22.50	22.34
			1	8	1	22.10	22.50	22.24
			1	14	1	22.16	22.50	22.32
			8	0	2	20.81	20.73	20.63
			8	4	2	20.77	20.78	20.52
			8	7	2	20.75	20.80	20.55
			15	0	2	20.86	20.88	20.65
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Avg Pwr (dBm)		
						23017	23095	23173
						699.7 MHz	707.5 MHz	715.3 MHz
LTE Band 12	1.4	QPSK	1	0	0	23.39	23.18	23.35
			1	3	0	23.22	23.26	23.27
			1	5	0	23.26	23.30	23.33
			3	0	0	23.04	23.08	23.15
			3	1	0	22.99	23.02	23.17
			3	3	0	22.94	23.03	23.11
		16QAM	6	0	1	21.94	22.01	22.08
			1	0	1	22.36	22.47	22.50
			1	3	1	22.36	22.43	22.50
			1	5	1	22.43	22.50	22.50
			3	0	1	22.07	22.02	22.13
			3	1	1	21.94	22.02	22.22
			3	3	1	22.00	22.06	22.21
			6	0	2	20.65	20.88	20.78

LTE Band 5

Due to frequency range and same output power setting, test was carried in LTE Band 26 to cover both LTE Band 26 and LTE Band 5.

LTE Band 4 Measured Results

Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Avg Pwr (dBm)		
						20050	20175	20300
						1720 MHz	1732.5 MHz	1745 MHz
LTE Band 4	20	QPSK	1	0	0	23.47	23.30	23.46
			1	49	0	23.45	23.22	23.50
			1	99	0	23.34	23.17	23.49
			50	0	1	22.21	21.96	22.20
			50	24	1	22.24	21.92	22.25
			50	50	1	22.12	21.87	22.27
			100	0	1	22.08	21.92	22.17
		16QAM	1	0	1	22.50	22.30	22.50
			1	49	1	22.50	22.09	22.50
			1	99	1	22.46	22.13	22.50
			50	0	2	21.11	20.89	21.14
			50	24	2	21.16	20.80	21.24
			50	50	2	21.00	20.83	21.23
			100	0	2	21.17	20.84	21.21
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Avg Pwr (dBm)		
						20025	20175	20325
						1717.5 MHz	1732.5 MHz	1747.5 MHz
LTE Band 4	15	QPSK	1	0	0	23.39	23.18	23.42
			1	37	0	23.42	23.04	23.46
			1	74	0	23.29	23.00	23.47
			36	0	1	22.15	21.94	22.29
			36	20	1	22.19	21.86	22.32
			36	39	1	22.25	21.87	22.29
			75	0	1	22.10	21.96	22.26
		16QAM	1	0	1	22.43	22.43	22.50
			1	37	1	22.38	22.35	22.50
			1	74	1	22.35	22.38	22.50
			36	0	2	21.16	20.91	21.09
			36	20	2	21.20	20.85	21.20
			36	39	2	21.17	20.78	21.20
			75	0	2	21.12	20.77	21.19
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Avg Pwr (dBm)		
						20000	20175	20350
						1715 MHz	1732.5 MHz	1750 MHz
LTE Band 4	10	QPSK	1	0	0	23.50	23.26	23.50
			1	25	0	23.43	23.16	23.50
			1	49	0	23.48	23.23	23.50
			25	0	1	22.17	21.95	22.34
			25	12	1	22.19	21.91	22.42
			25	25	1	22.20	21.85	22.38
			50	0	1	22.20	21.96	22.32
		16QAM	1	0	1	22.50	22.50	22.50
			1	25	1	22.47	22.50	22.50
			1	49	1	22.50	22.50	22.50
			25	0	2	21.10	20.88	21.22
			25	12	2	21.12	20.80	21.40
			25	25	2	20.99	20.75	21.36
			50	0	2	21.08	20.83	21.25

LTE Band 4 Measured Results (continued)

Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Avg Pwr (dBm)		
						19975	20175	20375
						1712.5 MHz	1732.5 MHz	1752.5 MHz
LTE Band 4	5	QPSK	1	0	0	23.30	23.20	23.50
			1	12	0	23.29	23.10	23.50
			1	24	0	23.34	23.12	23.50
			12	0	1	22.14	21.92	22.49
			12	7	1	22.26	21.83	22.50
			12	13	1	22.22	21.85	22.50
			25	0	1	22.13	21.91	22.41
		16QAM	1	0	1	22.50	22.12	22.50
			1	12	1	22.50	22.06	22.50
			1	24	1	22.50	22.17	22.50
			12	0	2	21.07	20.73	21.38
			12	7	2	21.08	20.74	21.45
			12	13	2	21.12	20.66	21.39
			25	0	2	21.06	20.75	21.36
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Avg Pwr (dBm)		
						19965	20175	20385
						1711.5 MHz	1732.5 MHz	1753.5 MHz
LTE Band 4	3	QPSK	1	0	0	23.35	23.17	23.50
			1	8	0	23.43	23.06	23.50
			1	14	0	23.48	23.21	23.50
			8	0	1	22.12	21.89	22.49
			8	4	1	22.20	21.84	22.50
			8	7	1	22.25	21.91	22.50
			15	0	1	22.22	21.91	22.47
		16QAM	1	0	1	22.49	22.50	22.50
			1	8	1	22.50	22.40	22.50
			1	14	1	22.50	22.44	22.50
			8	0	2	21.12	20.70	21.34
			8	4	2	21.08	20.68	21.32
			8	7	2	21.15	20.62	21.32
			15	0	2	21.09	20.77	21.22
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Avg Pwr (dBm)		
						19957	20175	20393
						1710.7 MHz	1732.5 MHz	1754.3 MHz
LTE Band 4	1.4	QPSK	1	0	0	23.50	23.14	23.50
			1	3	0	23.50	23.12	23.50
			1	5	0	23.50	23.13	23.50
			3	0	0	23.35	23.08	23.50
			3	1	0	23.27	23.06	23.50
			3	3	0	23.31	23.04	23.50
			6	0	1	22.22	21.97	22.46
		16QAM	1	0	1	22.50	22.42	22.50
			1	3	1	22.48	22.31	22.50
			1	5	1	22.50	22.44	22.50
			3	0	1	22.20	22.10	22.50
			3	1	1	22.26	22.01	22.50
			3	3	1	22.28	22.09	22.50
			6	0	2	20.98	20.80	21.27

LTE Band 2

Due to frequency range and same output power setting, test was carried in LTE Band 25 to cover both LTE Band 25 and LTE Band 2.

9. PEAK TO AVERAGE RATIO

Test Procedure

Per KDB 971168 D01 Power Meas License Digital Systems v02r02;

The transmitter output was connected to a CMW500 Test Set and configured to operate at maximum power. The PAR were measured on the Spectrum Analyzer.

Test Spec

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

9.1. CONDUCTED PEAK TO AVERAGE RESULT

LTE

Band	BW [MHz]	Channel	f [MHz]	Mode	Ratio [dB]	Limit [dB]
Band 41	20	40620	2593	QPSK	5.56	13.00
				16QAM	6.82	
	15			QPSK	5.61	
				16QAM	6.65	
	10			QPSK	5.68	
				16QAM	6.93	
	5			QPSK	5.57	
				16QAM	6.50	
Band 26	15	26965	831.5	QPSK	4.95	
				16QAM	5.72	
	10			QPSK	5.21	
				16QAM	5.67	
	5			QPSK	5.54	
				16QAM	5.49	
	3			QPSK	5.57	
				16QAM	5.82	
	1.4			QPSK	5.49	
				16QAM	5.57	

Band	BW [MHz]	Channel	f [MHz]	Mode	Ratio [dB]	Limit [dB]
Band 25	20	26365	1882.5	QPSK	4.32	13.00
				16QAM	5.56	
	15			QPSK	4.35	
				16QAM	5.52	
	10			QPSK	4.72	
				16QAM	5.72	
	5			QPSK	5.04	
				16QAM	5.57	
	3			QPSK	5.01	
				16QAM	5.60	
1.4	QPSK	4.89				
	16QAM	5.63				
Band 12	10	23095	707.5	QPSK	4.27	
				16QAM	5.27	
	5			QPSK	4.32	
				16QAM	5.13	
	3			QPSK	4.33	
				16QAM	5.40	
	1.4			QPSK	4.17	
				16QAM	5.14	
Band 4	20	20715	1732.5	QPSK	4.41	
				16QAM	5.48	
	15			QPSK	4.30	
				16QAM	5.48	
	10			QPSK	4.68	
				16QAM	5.59	
	5			QPSK	4.80	
				16QAM	5.55	
	3			QPSK	4.73	
				16QAM	5.56	
	1.4			QPSK	4.66	
				16QAM	5.54	

LTE Band 17

Due to frequency range and same output power setting, test was carried in LTE Band 12 to cover both LTE Band 12 and LTE Band 17.

LTE Band 5

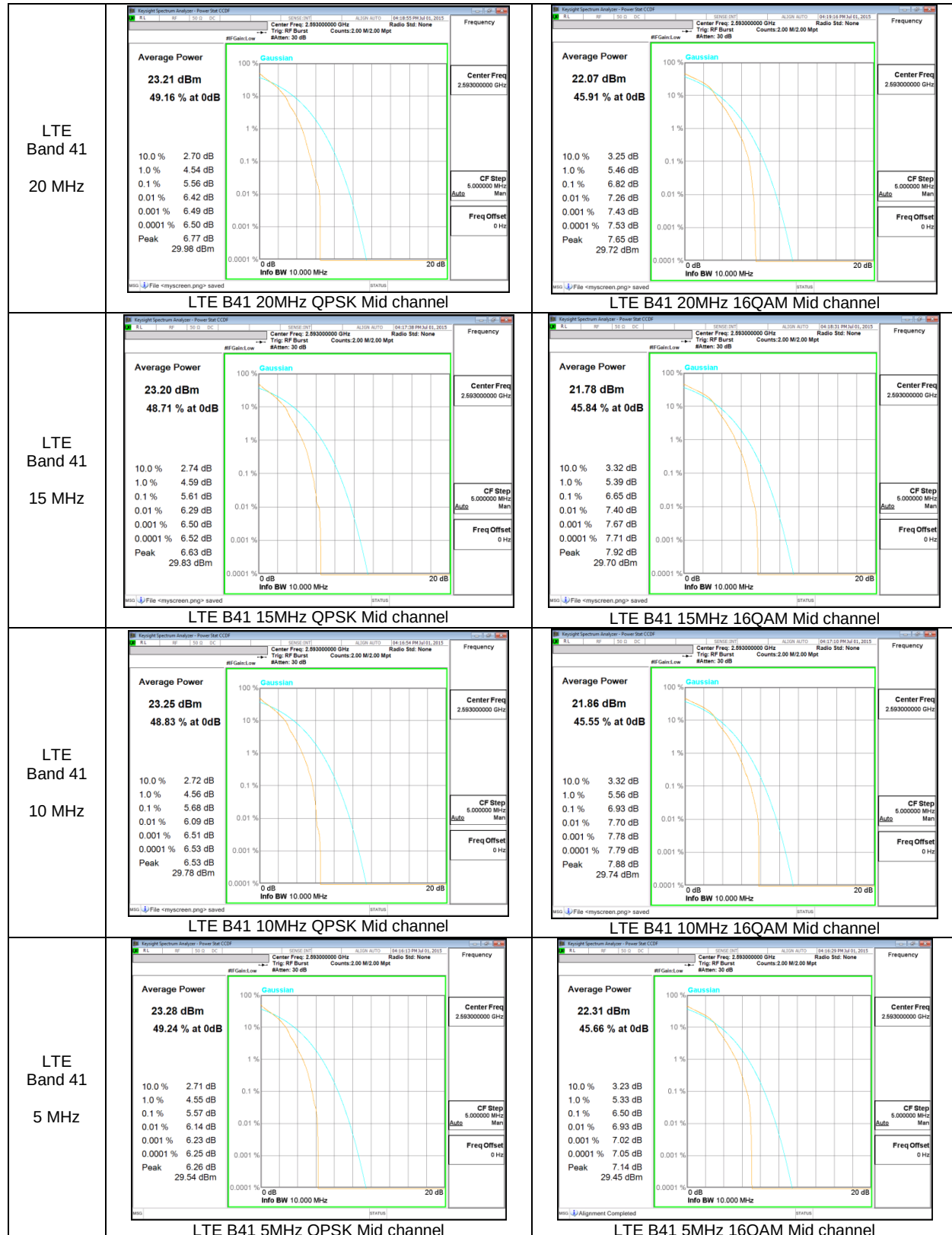
Due to frequency range and same output power setting, test was carried in LTE Band 26 to cover both LTE Band 26 and LTE Band 5.

LTE Band 2

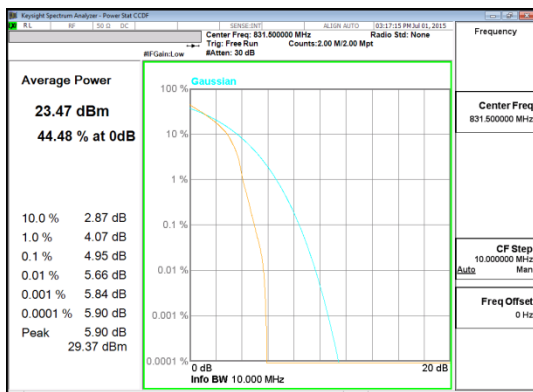
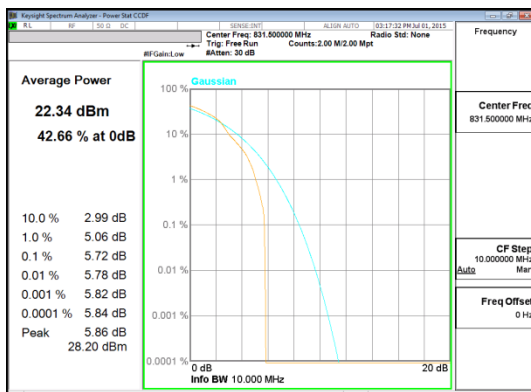
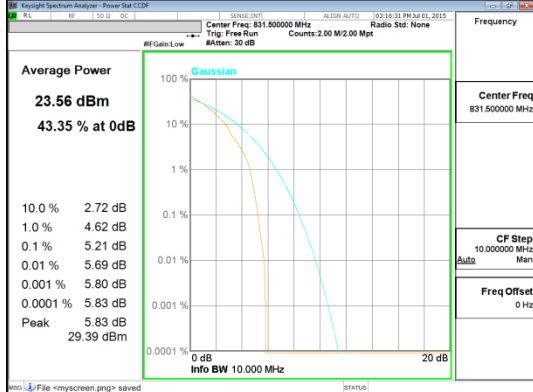
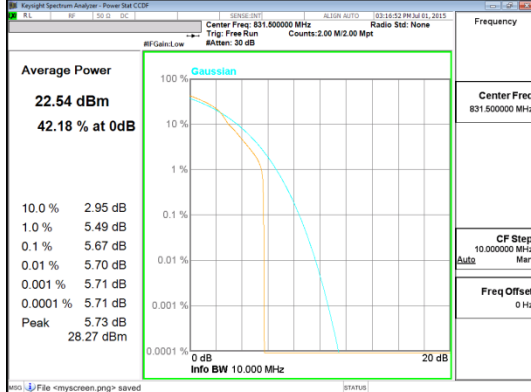
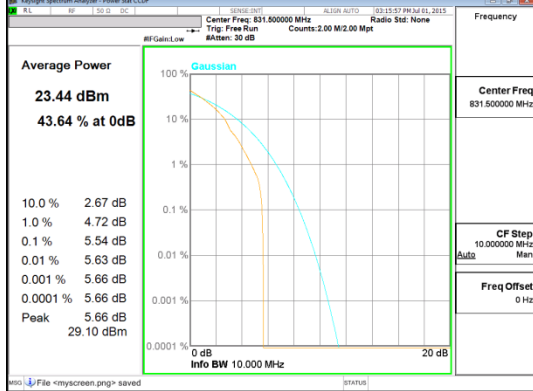
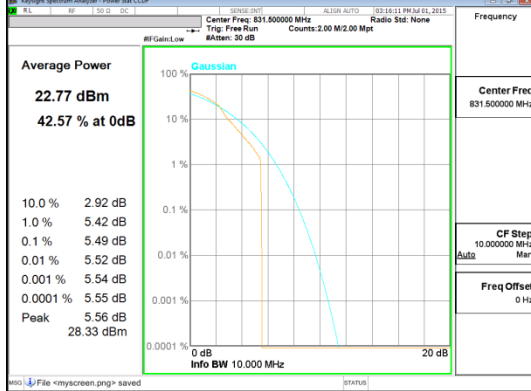
Due to frequency range and same output power setting, test was carried in LTE Band 25 to cover both LTE Band 25 and LTE Band 2.

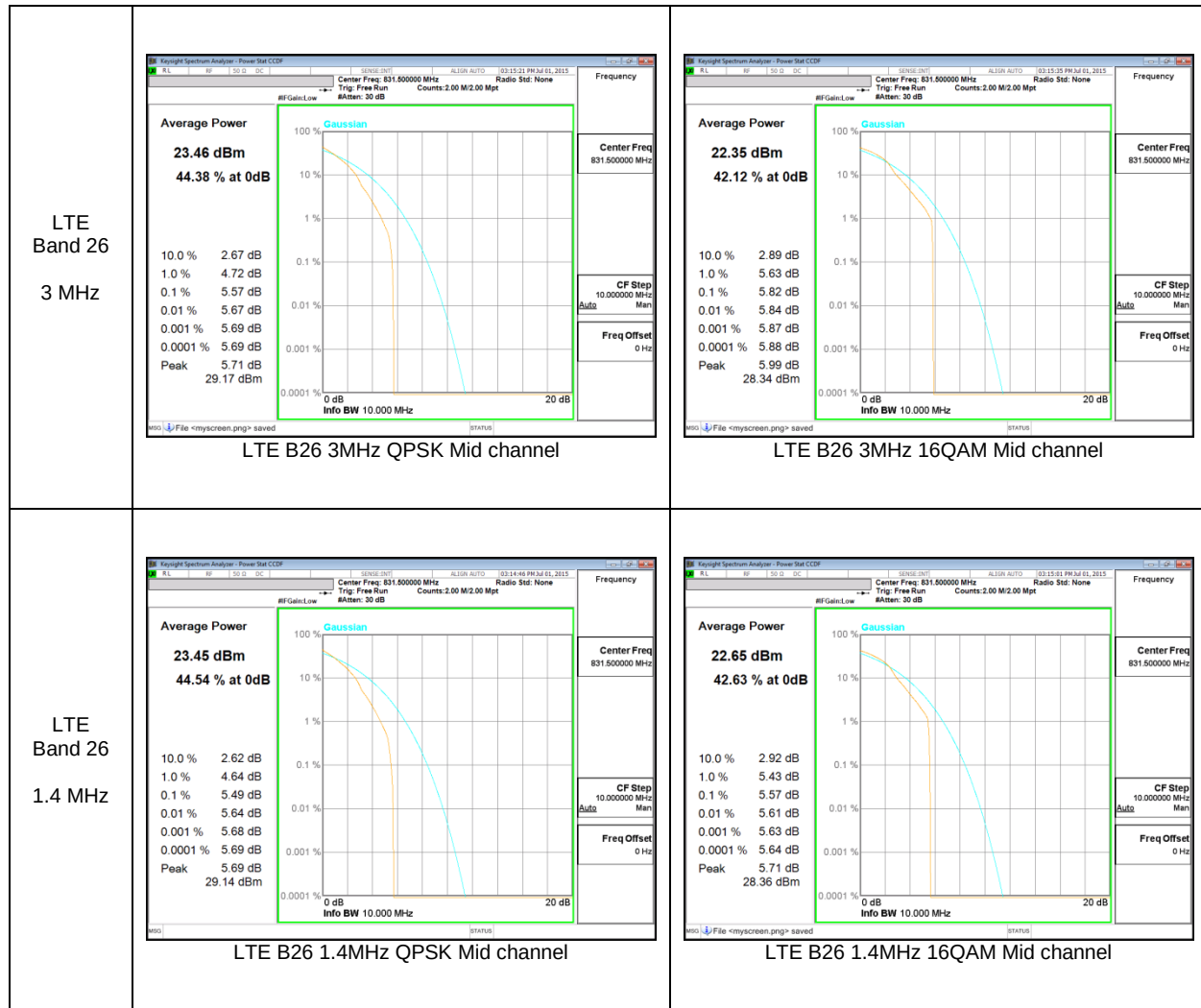
9.2. CONDUCTED PEAK TO AVERAGE PLOTS

LTE Band 41

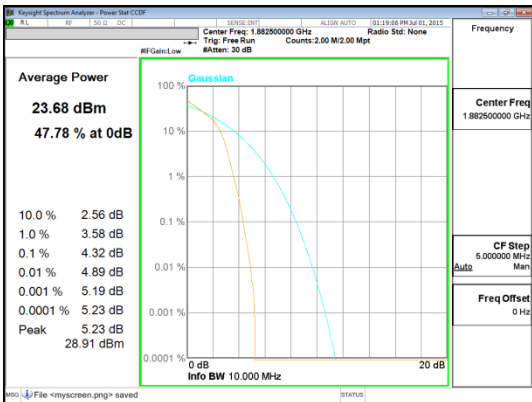
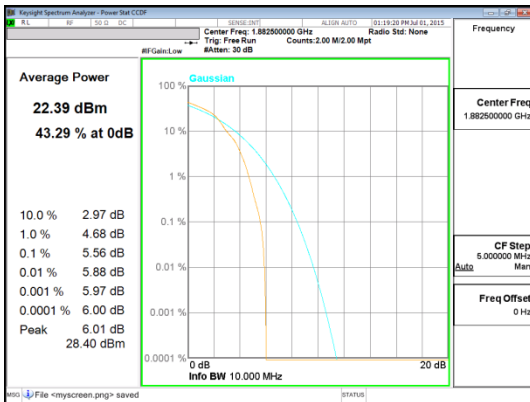
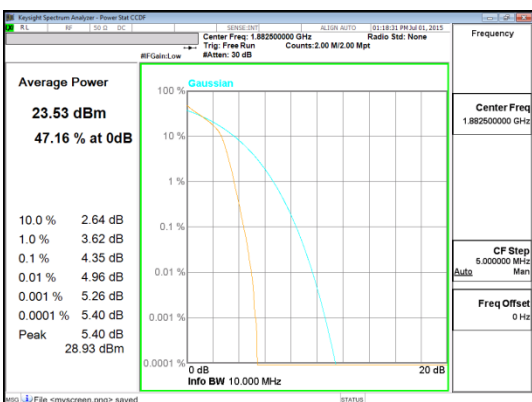
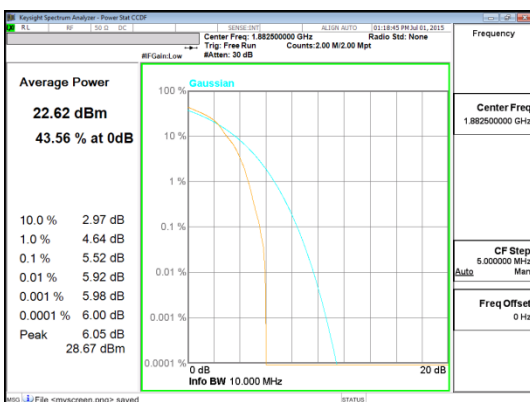
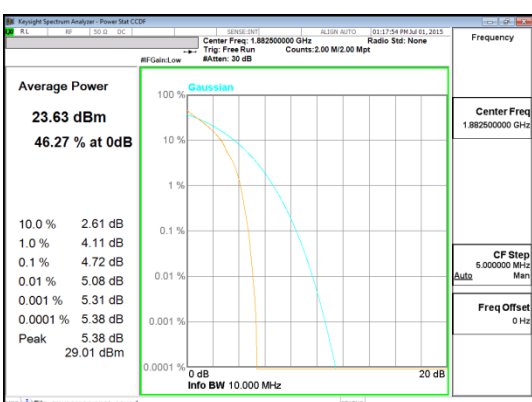
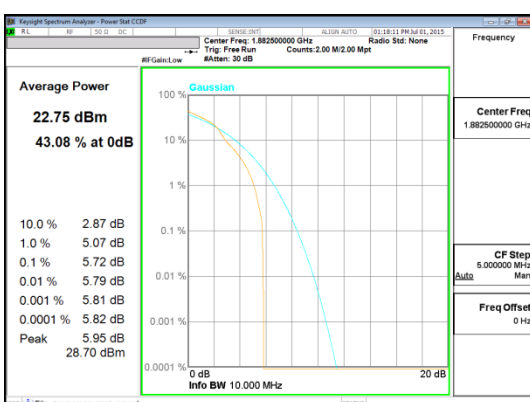


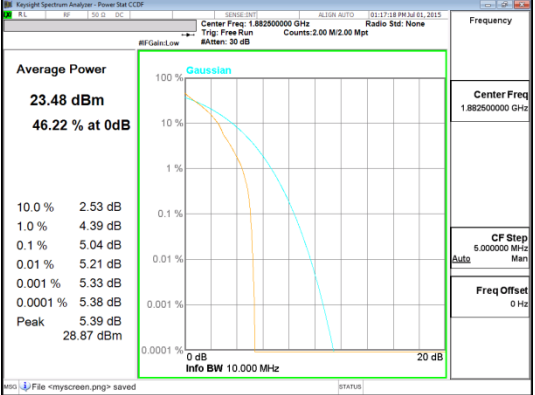
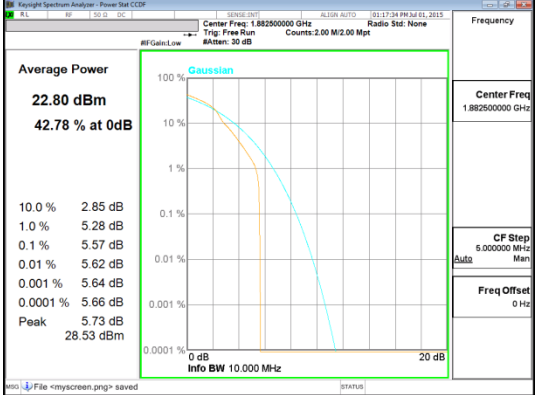
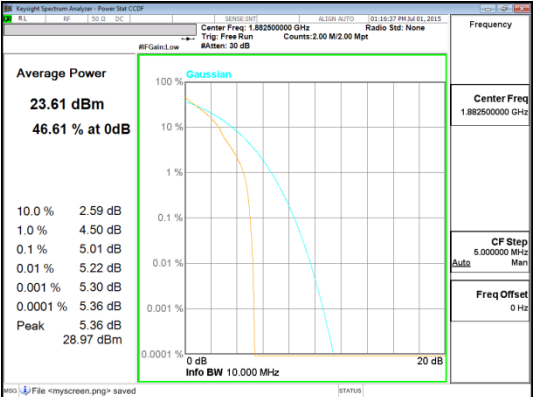
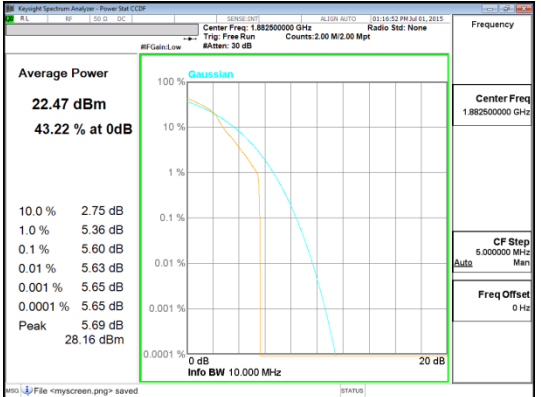
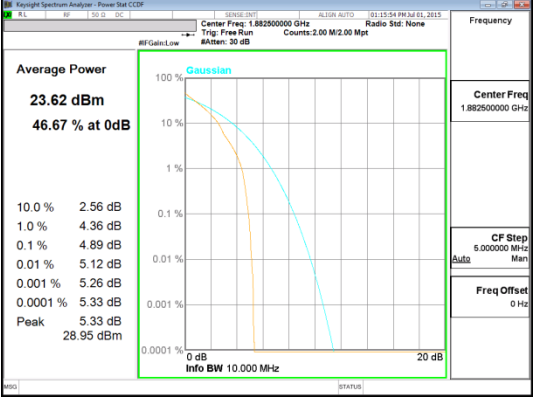
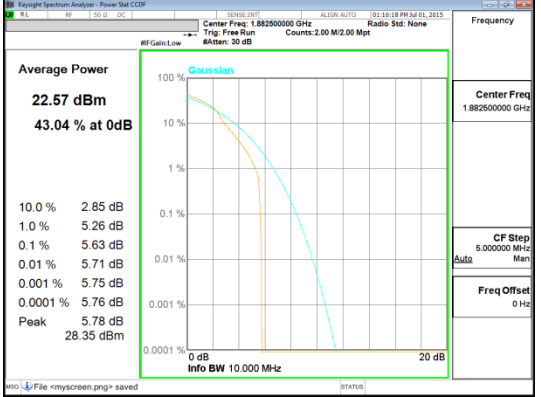
LTE Band 26

LTE Band 26 15 MHz	 Average Power 23.47 dBm 44.48 % at 0dB <table><tr><td>10.0 %</td><td>2.87 dB</td></tr><tr><td>1.0 %</td><td>4.07 dB</td></tr><tr><td>0.1 %</td><td>4.95 dB</td></tr><tr><td>0.01 %</td><td>5.66 dB</td></tr><tr><td>0.001 %</td><td>5.84 dB</td></tr><tr><td>0.0001 %</td><td>5.90 dB</td></tr><tr><td>Peak</td><td>5.90 dB</td></tr><tr><td></td><td>29.37 dBm</td></tr></table> Center Freq: 831.500000 MHz Trig: Free Run Counts: 2.00 M/2.00 Mpts Radio Std: None RF Gain: Low Att: 30 dB Info BW: 10.000 MHz CF Step: 10.000000 MHz Auto Man Freq Offset: 0 Hz LTE B26 15MHz QPSK Mid channel	10.0 %	2.87 dB	1.0 %	4.07 dB	0.1 %	4.95 dB	0.01 %	5.66 dB	0.001 %	5.84 dB	0.0001 %	5.90 dB	Peak	5.90 dB		29.37 dBm	 Average Power 22.34 dBm 42.66 % at 0dB <table><tr><td>10.0 %</td><td>2.99 dB</td></tr><tr><td>1.0 %</td><td>5.06 dB</td></tr><tr><td>0.1 %</td><td>5.72 dB</td></tr><tr><td>0.01 %</td><td>5.78 dB</td></tr><tr><td>0.001 %</td><td>5.82 dB</td></tr><tr><td>0.0001 %</td><td>5.84 dB</td></tr><tr><td>Peak</td><td>5.86 dB</td></tr><tr><td></td><td>28.20 dBm</td></tr></table> Center Freq: 831.500000 MHz Trig: Free Run Counts: 2.00 M/2.00 Mpts Radio Std: None RF Gain: Low Att: 30 dB Info BW: 10.000 MHz CF Step: 10.000000 MHz Auto Man Freq Offset: 0 Hz LTE B26 15MHz 16QAM Mid channel	10.0 %	2.99 dB	1.0 %	5.06 dB	0.1 %	5.72 dB	0.01 %	5.78 dB	0.001 %	5.82 dB	0.0001 %	5.84 dB	Peak	5.86 dB		28.20 dBm
10.0 %	2.87 dB																																	
1.0 %	4.07 dB																																	
0.1 %	4.95 dB																																	
0.01 %	5.66 dB																																	
0.001 %	5.84 dB																																	
0.0001 %	5.90 dB																																	
Peak	5.90 dB																																	
	29.37 dBm																																	
10.0 %	2.99 dB																																	
1.0 %	5.06 dB																																	
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0.01 %	5.78 dB																																	
0.001 %	5.82 dB																																	
0.0001 %	5.84 dB																																	
Peak	5.86 dB																																	
	28.20 dBm																																	
LTE Band 26 10 MHz	 Average Power 23.56 dBm 43.35 % at 0dB <table><tr><td>10.0 %</td><td>2.72 dB</td></tr><tr><td>1.0 %</td><td>4.62 dB</td></tr><tr><td>0.1 %</td><td>5.21 dB</td></tr><tr><td>0.01 %</td><td>5.69 dB</td></tr><tr><td>0.001 %</td><td>5.80 dB</td></tr><tr><td>0.0001 %</td><td>5.83 dB</td></tr><tr><td>Peak</td><td>5.83 dB</td></tr><tr><td></td><td>29.39 dBm</td></tr></table> Center Freq: 831.500000 MHz Trig: Free Run Counts: 2.00 M/2.00 Mpts Radio Std: None RF Gain: Low Att: 30 dB Info BW: 10.000 MHz CF Step: 10.000000 MHz Auto Man Freq Offset: 0 Hz LTE B26 10MHz QPSK Mid channel	10.0 %	2.72 dB	1.0 %	4.62 dB	0.1 %	5.21 dB	0.01 %	5.69 dB	0.001 %	5.80 dB	0.0001 %	5.83 dB	Peak	5.83 dB		29.39 dBm	 Average Power 22.54 dBm 42.18 % at 0dB <table><tr><td>10.0 %</td><td>2.95 dB</td></tr><tr><td>1.0 %</td><td>5.49 dB</td></tr><tr><td>0.1 %</td><td>5.67 dB</td></tr><tr><td>0.01 %</td><td>5.70 dB</td></tr><tr><td>0.001 %</td><td>5.71 dB</td></tr><tr><td>0.0001 %</td><td>5.71 dB</td></tr><tr><td>Peak</td><td>5.73 dB</td></tr><tr><td></td><td>28.27 dBm</td></tr></table> Center Freq: 831.500000 MHz Trig: Free Run Counts: 2.00 M/2.00 Mpts Radio Std: None RF Gain: Low Att: 30 dB Info BW: 10.000 MHz CF Step: 10.000000 MHz Auto Man Freq Offset: 0 Hz LTE B26 10MHz 16QAM Mid channel	10.0 %	2.95 dB	1.0 %	5.49 dB	0.1 %	5.67 dB	0.01 %	5.70 dB	0.001 %	5.71 dB	0.0001 %	5.71 dB	Peak	5.73 dB		28.27 dBm
10.0 %	2.72 dB																																	
1.0 %	4.62 dB																																	
0.1 %	5.21 dB																																	
0.01 %	5.69 dB																																	
0.001 %	5.80 dB																																	
0.0001 %	5.83 dB																																	
Peak	5.83 dB																																	
	29.39 dBm																																	
10.0 %	2.95 dB																																	
1.0 %	5.49 dB																																	
0.1 %	5.67 dB																																	
0.01 %	5.70 dB																																	
0.001 %	5.71 dB																																	
0.0001 %	5.71 dB																																	
Peak	5.73 dB																																	
	28.27 dBm																																	
LTE Band 26 5 MHz	 Average Power 23.44 dBm 43.64 % at 0dB <table><tr><td>10.0 %</td><td>2.67 dB</td></tr><tr><td>1.0 %</td><td>4.72 dB</td></tr><tr><td>0.1 %</td><td>5.54 dB</td></tr><tr><td>0.01 %</td><td>5.63 dB</td></tr><tr><td>0.001 %</td><td>5.66 dB</td></tr><tr><td>0.0001 %</td><td>5.66 dB</td></tr><tr><td>Peak</td><td>5.66 dB</td></tr><tr><td></td><td>29.10 dBm</td></tr></table> Center Freq: 831.500000 MHz Trig: Free Run Counts: 2.00 M/2.00 Mpts Radio Std: None RF Gain: Low Att: 30 dB Info BW: 10.000 MHz CF Step: 10.000000 MHz Auto Man Freq Offset: 0 Hz LTE B26 5MHz QPSK Mid channel	10.0 %	2.67 dB	1.0 %	4.72 dB	0.1 %	5.54 dB	0.01 %	5.63 dB	0.001 %	5.66 dB	0.0001 %	5.66 dB	Peak	5.66 dB		29.10 dBm	 Average Power 22.77 dBm 42.57 % at 0dB <table><tr><td>10.0 %</td><td>2.92 dB</td></tr><tr><td>1.0 %</td><td>5.42 dB</td></tr><tr><td>0.1 %</td><td>5.49 dB</td></tr><tr><td>0.01 %</td><td>5.52 dB</td></tr><tr><td>0.001 %</td><td>5.54 dB</td></tr><tr><td>0.0001 %</td><td>5.55 dB</td></tr><tr><td>Peak</td><td>5.56 dB</td></tr><tr><td></td><td>28.33 dBm</td></tr></table> Center Freq: 831.500000 MHz Trig: Free Run Counts: 2.00 M/2.00 Mpts Radio Std: None RF Gain: Low Att: 30 dB Info BW: 10.000 MHz CF Step: 10.000000 MHz Auto Man Freq Offset: 0 Hz LTE B26 5MHz 16QAM Mid channel	10.0 %	2.92 dB	1.0 %	5.42 dB	0.1 %	5.49 dB	0.01 %	5.52 dB	0.001 %	5.54 dB	0.0001 %	5.55 dB	Peak	5.56 dB		28.33 dBm
10.0 %	2.67 dB																																	
1.0 %	4.72 dB																																	
0.1 %	5.54 dB																																	
0.01 %	5.63 dB																																	
0.001 %	5.66 dB																																	
0.0001 %	5.66 dB																																	
Peak	5.66 dB																																	
	29.10 dBm																																	
10.0 %	2.92 dB																																	
1.0 %	5.42 dB																																	
0.1 %	5.49 dB																																	
0.01 %	5.52 dB																																	
0.001 %	5.54 dB																																	
0.0001 %	5.55 dB																																	
Peak	5.56 dB																																	
	28.33 dBm																																	

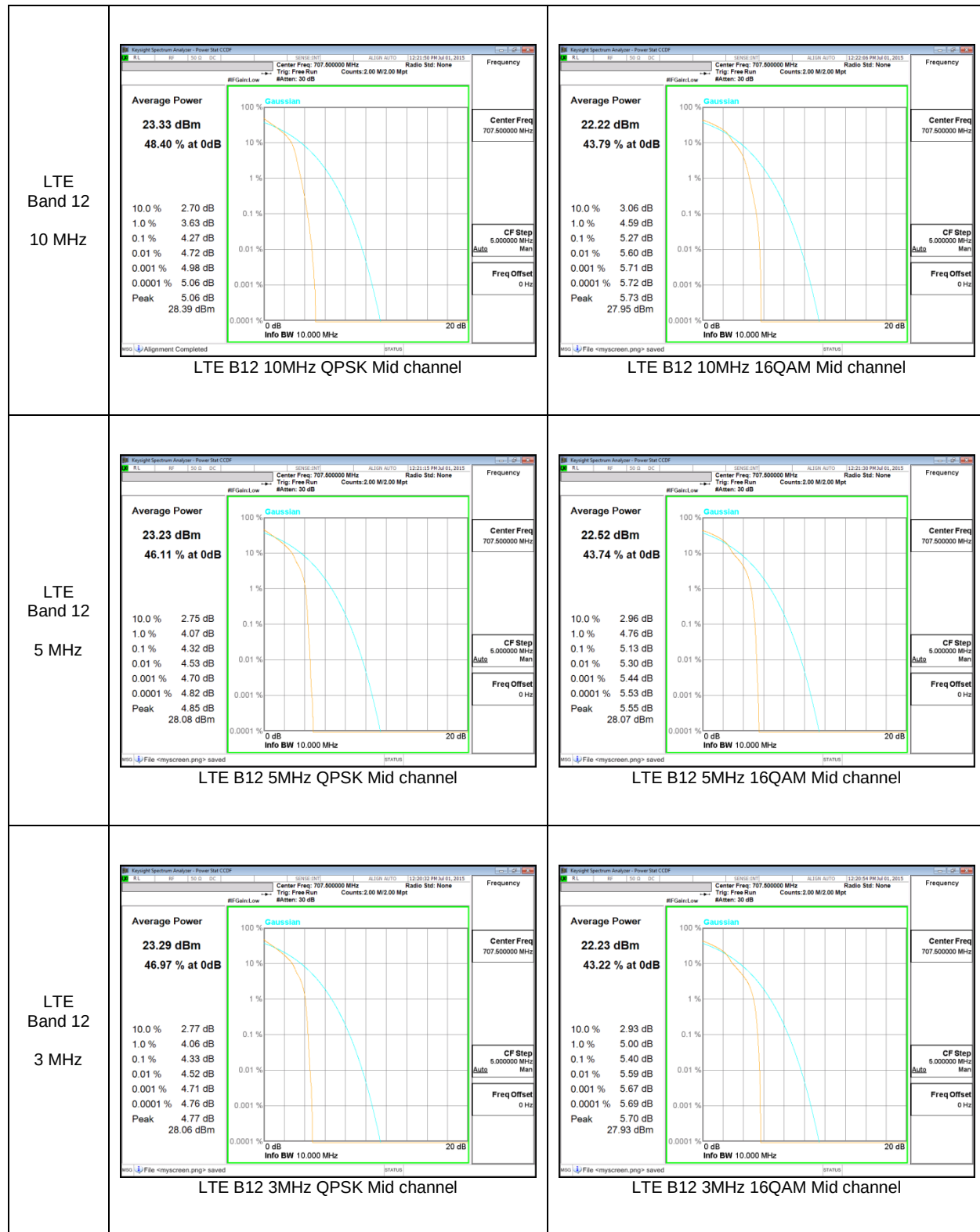


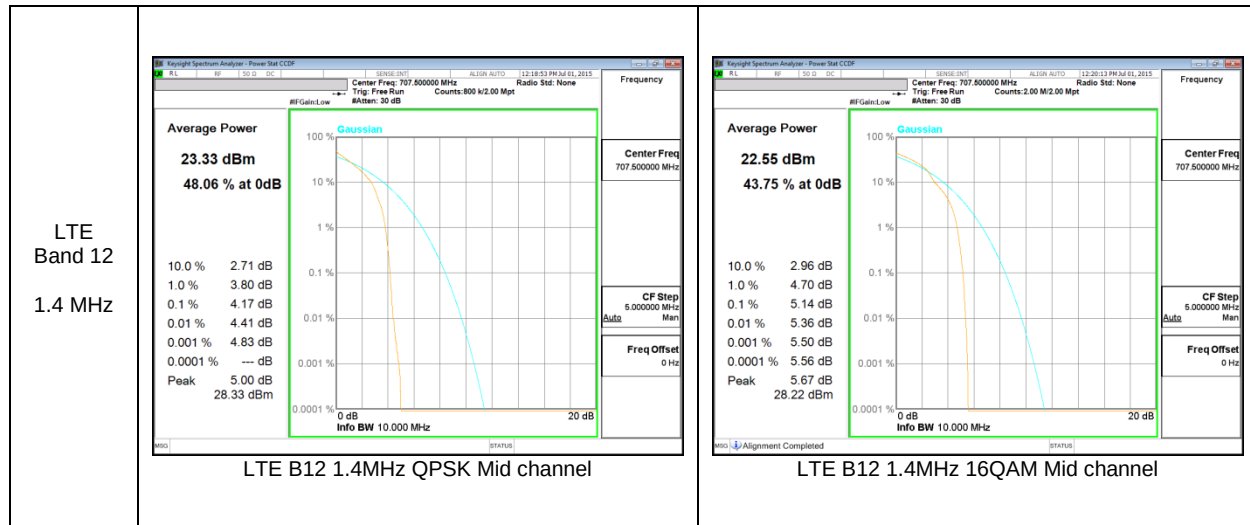
LTE Band 25

LTE Band 25 20 MHz	 Average Power 23.68 dBm 47.78 % at 0dB 10.0 % 2.56 dB 1.0 % 3.58 dB 0.1 % 4.32 dB 0.01 % 4.89 dB 0.001 % 5.19 dB 0.0001 % 5.23 dB Peak 5.23 dB 28.91 dBm Center Freq 1.882500000 GHz Trig: Free Run Counts: 2.00 M/2.00 Mpt Radio Std: None #F Gain: Low Info BW 10.000 MHz CF Step 5.000000 MHz Auto Man Freq Offset 0 Hz LTE B25 20MHz QPSK Mid channel	 Average Power 22.39 dBm 43.29 % at 0dB 10.0 % 2.97 dB 1.0 % 4.68 dB 0.1 % 5.56 dB 0.01 % 5.88 dB 0.001 % 5.97 dB 0.0001 % 6.00 dB Peak 6.01 dB 28.40 dBm Center Freq 1.882500000 GHz Trig: Free Run Counts: 2.00 M/2.00 Mpt Radio Std: None #F Gain: Low Info BW 10.000 MHz CF Step 5.000000 MHz Auto Man Freq Offset 0 Hz LTE B25 20MHz 16QAM Mid channel
LTE Band 25 15 MHz	 Average Power 23.53 dBm 47.16 % at 0dB 10.0 % 2.64 dB 1.0 % 3.62 dB 0.1 % 4.35 dB 0.01 % 4.96 dB 0.001 % 5.26 dB 0.0001 % 5.40 dB Peak 5.40 dB 28.93 dBm Center Freq 1.882500000 GHz Trig: Free Run Counts: 2.00 M/2.00 Mpt Radio Std: None #F Gain: Low Info BW 10.000 MHz CF Step 5.000000 MHz Auto Man Freq Offset 0 Hz LTE B25 15MHz QPSK Mid channel	 Average Power 22.62 dBm 43.56 % at 0dB 10.0 % 2.97 dB 1.0 % 4.64 dB 0.1 % 5.52 dB 0.01 % 5.92 dB 0.001 % 5.98 dB 0.0001 % 6.00 dB Peak 6.05 dB 28.67 dBm Center Freq 1.882500000 GHz Trig: Free Run Counts: 2.00 M/2.00 Mpt Radio Std: None #F Gain: Low Info BW 10.000 MHz CF Step 5.000000 MHz Auto Man Freq Offset 0 Hz LTE B25 15MHz 16QAM Mid channel
LTE Band 25 10 MHz	 Average Power 23.63 dBm 46.27 % at 0dB 10.0 % 2.61 dB 1.0 % 4.11 dB 0.1 % 4.72 dB 0.01 % 5.08 dB 0.001 % 5.31 dB 0.0001 % 5.38 dB Peak 5.38 dB 29.01 dBm Center Freq 1.882500000 GHz Trig: Free Run Counts: 2.00 M/2.00 Mpt Radio Std: None #F Gain: Low Info BW 10.000 MHz CF Step 5.000000 MHz Auto Man Freq Offset 0 Hz LTE B25 10MHz QPSK Mid channel	 Average Power 22.75 dBm 43.08 % at 0dB 10.0 % 2.87 dB 1.0 % 5.07 dB 0.1 % 5.72 dB 0.01 % 5.79 dB 0.001 % 5.81 dB 0.0001 % 5.82 dB Peak 5.95 dB 28.70 dBm Center Freq 1.882500000 GHz Trig: Free Run Counts: 2.00 M/2.00 Mpt Radio Std: None #F Gain: Low Info BW 10.000 MHz CF Step 5.000000 MHz Auto Man Freq Offset 0 Hz LTE B25 10MHz 16QAM Mid channel

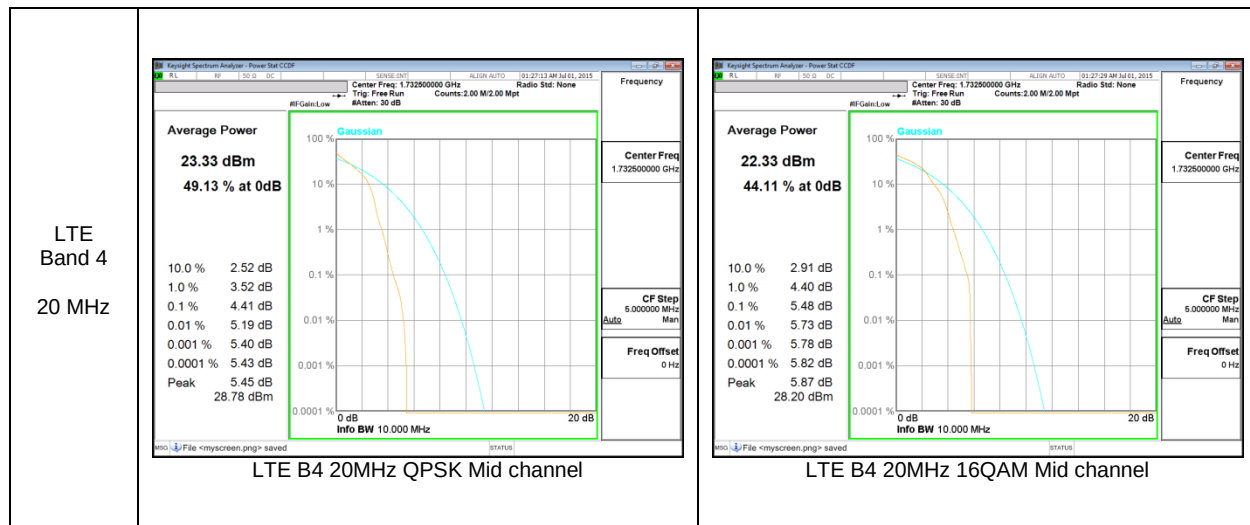
LTE Band 25 5 MHz	 LTE B25 5MHz QPSK Mid channel	 LTE B25 5MHz 16QAM Mid channel
LTE Band 25 3 MHz	 LTE B25 3MHz QPSK Mid channel	 LTE B25 3MHz 16QAM Mid channel
LTE Band 25 1.4 MHz	 LTE B25 1.4MHz QPSK Mid channel	 LTE B25 1.4MHz 16QAM Mid channel

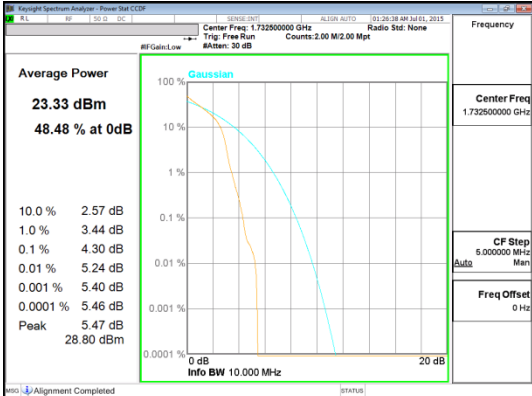
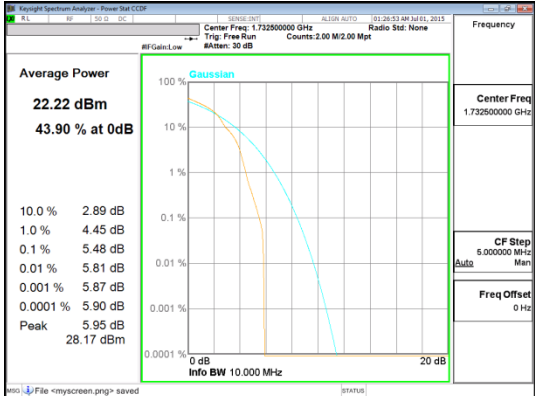
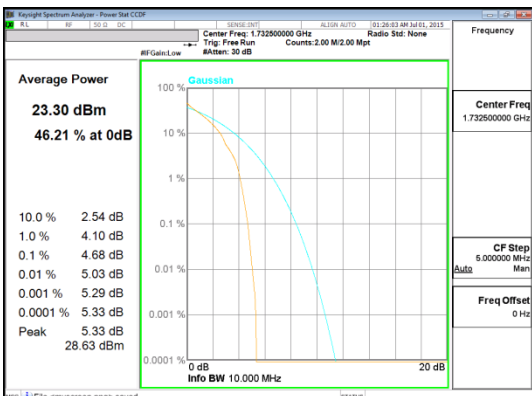
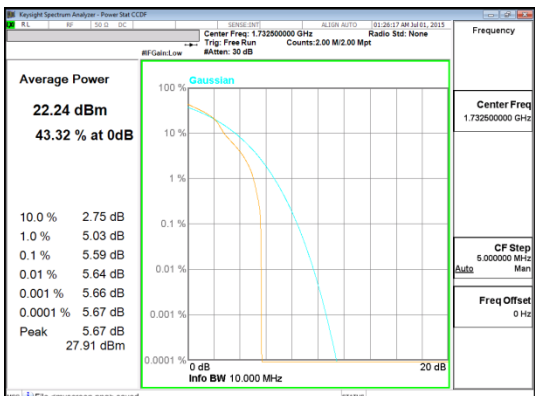
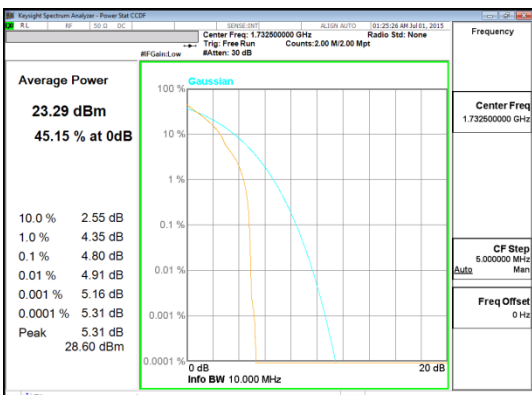
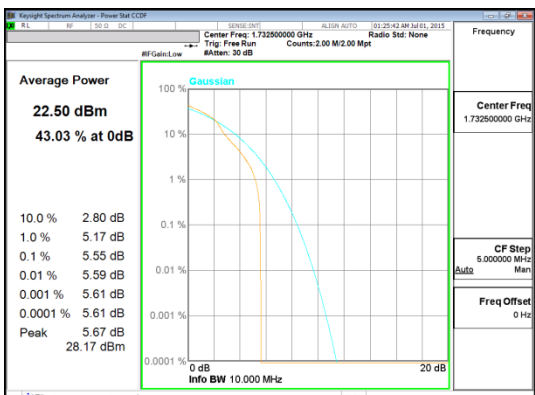
LTE Band 12

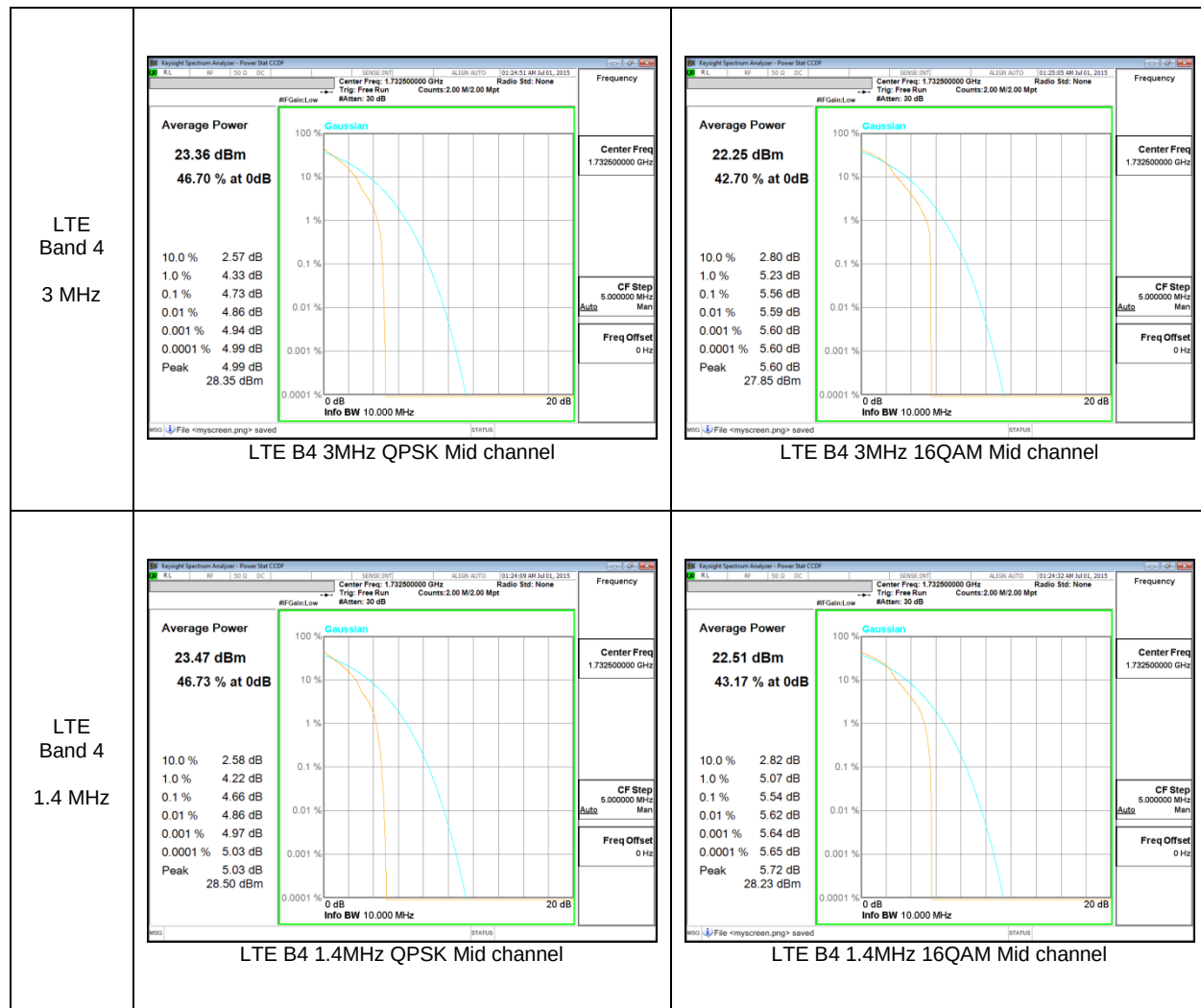




LTE Band 4



LTE Band 4 15 MHz	 LTE B4 15MHz QPSK Mid channel	 LTE B4 15MHz 16QAM Mid channel
LTE Band 4 10 MHz	 LTE B4 10MHz QPSK Mid channel	 LTE B4 10MHz 16QAM Mid channel
LTE Band 4 5 MHz	 LTE B4 5MHz QPSK Mid channel	 LTE B4 5MHz 16QAM Mid channel



10. LIMITS AND CONDUCTED RESULTS

10.1. OCCUPIED BANDWIDTH

RULE PART(S)

FCC: §2.1049

LIMITS

For reporting purposes only

TEST PROCEDURE

The transmitter output was connected to a calibrated coaxial cable and coupler, the other end of which was connected to a spectrum analyzer. The occupied bandwidth was measured with the spectrum analyzer at the low, middle and high channel in each band. The -26dB bandwidth was also measured and recorded.

(KDB 971168 D01 Power Meas License Digital Systems v02r02)

10.1.1. OCCUPIED BANDWIDTH RESULTS

LTE Band 41

Band	BW [MHz]	Channel	f [MHz]	Mode	99% BW [MHz]	26dB BW [MHz]
Band 41	20	35970	2506.0	QPSK	17.838	19.78
				16QAM	17.880	20.42
		40620	2593.0	QPSK	17.863	19.64
				16QAM	17.870	19.64
		41490	2680.0	QPSK	17.875	19.43
				16QAM	17.872	20.28
	15	39725	2503.5	QPSK	13.458	14.83
				16QAM	13.436	15.29
		40620	2593.0	QPSK	13.421	15.16
				16QAM	13.410	15.10
		41515	2682.5	QPSK	13.430	15.36
				16QAM	13.422	15.15
	10	39700	2501.0	QPSK	8.9769	10.22
				16QAM	8.9638	10.14
		40620	2593.0	QPSK	8.9624	10.14
				16QAM	8.9669	10.10
		41540	2685.0	QPSK	8.9685	9.911
				16QAM	8.9466	10.03
	5	39675	2498.5	QPSK	4.4907	5.329
				16QAM	4.4934	5.308
		40620	2593.0	QPSK	4.5075	5.324
				16QAM	4.4915	5.230
		41565	2687.5	QPSK	4.4990	5.347
				16QAM	4.5040	5.431

LTE Band 26

Band	BW [MHz]	Channel	f [MHz]	Mode	99% BW [MHz]	26dB BW [MHz]
Band 26	15	26865	831.5	QPSK	13.441	15.14
				16QAM	13.443	15.02
		26965	841.5	QPSK	13.458	15.00
				16QAM	13.437	15.09
	10	26740	819.0	QPSK	8.9634	10.27
				16QAM	8.9735	10.31
		26865	831.5	QPSK	8.9747	10.07
				16QAM	8.9613	10.35
		26990	844.0	QPSK	8.9736	10.22
				16QAM	8.9952	10.48
	5	26715	816.5	QPSK	4.5099	5.339
				16QAM	4.4998	5.297
		26740	819.0	QPSK	4.4951	5.330
				16QAM	4.5055	5.347
		26765	821.5	QPSK	4.4972	5.252
				16QAM	4.5033	5.207
		26865	831.5	QPSK	4.4966	5.230
				16QAM	4.5129	5.367
		27015	846.5	QPSK	4.4958	5.297
				16QAM	4.4961	5.236
	3	26705	815.5	QPSK	2.6955	3.051
				16QAM	2.7037	3.095
		26740	819.0	QPSK	2.7015	3.048
				16QAM	2.6918	3.061
		26775	822.5	QPSK	2.6912	3.098
				16QAM	2.7077	3.052
		26865	831.5	QPSK	2.7078	3.078
				16QAM	2.7074	3.067
		27025	847.5	QPSK	2.6918	3.026
				16QAM	2.6924	3.047
	1.4	26697	814.7	QPSK	1.0900	1.363
				16QAM	1.0966	1.402
		26740	819.0	QPSK	1.0921	1.360
				16QAM	1.0968	1.442
		26783	823.3	QPSK	1.0920	1.380
				16QAM	1.0913	1.363
		26865	831.5	QPSK	1.0890	1.243
				16QAM	1.0945	1.385
		27033	848.3	QPSK	1.0914	1.364
				16QAM	1.0941	1.376

LTE Band 25

Band	BW [MHz]	Channel	f [MHz]	Mode	99% BW [MHz]	26dB BW [MHz]
Band 25	20	26140	1860.0	QPSK	17.874	19.64
				16QAM	17.897	19.70
		26365	1882.5	QPSK	17.872	19.56
				16QAM	17.876	19.63
		26590	1905.0	QPSK	17.888	19.58
				16QAM	17.893	19.81
	15	26115	1857.5	QPSK	13.448	15.05
				16QAM	13.409	15.17
		26365	1882.5	QPSK	13.440	15.01
				16QAM	13.421	15.18
		26615	1907.5	QPSK	13.450	15.31
				16QAM	13.414	15.07
	10	26090	1855.0	QPSK	8.9666	10.22
				16QAM	8.9569	10.28
		26365	1882.5	QPSK	8.9596	10.22
				16QAM	8.9741	10.21
		26640	1910.0	QPSK	8.9585	10.24
				16QAM	8.9821	10.18
	5	26065	1852.5	QPSK	4.5002	5.306
				16QAM	4.5016	5.322
		26365	1882.5	QPSK	4.5043	5.274
				16QAM	4.5038	5.351
		26665	1912.5	QPSK	4.4943	5.312
				16QAM	4.5076	5.315
	3	26055	1851.5	QPSK	2.7005	3.080
				16QAM	2.7052	3.095
		26365	1882.5	QPSK	2.7030	3.035
				16QAM	2.7054	3.068
		26675	1913.5	QPSK	2.6974	3.118
				16QAM	2.6999	3.075
	1.4	26047	1850.7	QPSK	1.0907	1.342
				16QAM	1.0949	1.391
		26365	1882.5	QPSK	1.0947	1.396
				16QAM	1.0934	1.364
		26683	1914.3	QPSK	1.0918	1.372
				16QAM	1.0914	1.446

LTE Band 17

Due to frequency range and same output power setting, test was carried in LTE Band 12 to cover both LTE Band 12 and LTE Band 17.

LTE Band 12

Band	BW [MHz]	Channel	f [MHz]	Mode	99% BW [MHz]	26dB BW [MHz]
Band 12	10	23060	704.0	QPSK	8.9748	10.25
				16QAM	8.9730	10.21
		23095	707.5	QPSK	8.9598	10.17
				16QAM	8.9638	10.09
		23130	711.0	QPSK	8.9526	10.22
				16QAM	8.9561	10.26
	5	23035	701.5	QPSK	4.5070	5.179
				16QAM	4.5026	5.408
		23095	707.5	QPSK	4.5025	5.238
				16QAM	4.5125	5.372
		23155	713.5	QPSK	4.4936	5.272
				16QAM	4.5000	5.369
	3	23025	700.5	QPSK	2.6959	3.046
				16QAM	2.7015	3.042
		23095	707.5	QPSK	2.6994	3.097
				16QAM	2.6997	3.135
		23165	714.5	QPSK	2.6972	3.069
				16QAM	2.6967	3.054
	1.4	23017	699.7	QPSK	1.0940	1.351
				16QAM	1.0930	1.418
		23095	707.5	QPSK	1.0935	1.367
				16QAM	1.0983	1.375
		23173	715.3	QPSK	1.0916	1.400
				16QAM	1.0974	1.432

LTE Band 5

Due to frequency range and same output power setting, test was carried in LTE Band 26 to cover both LTE Band 26 and LTE Band 5.

LTE Band 4

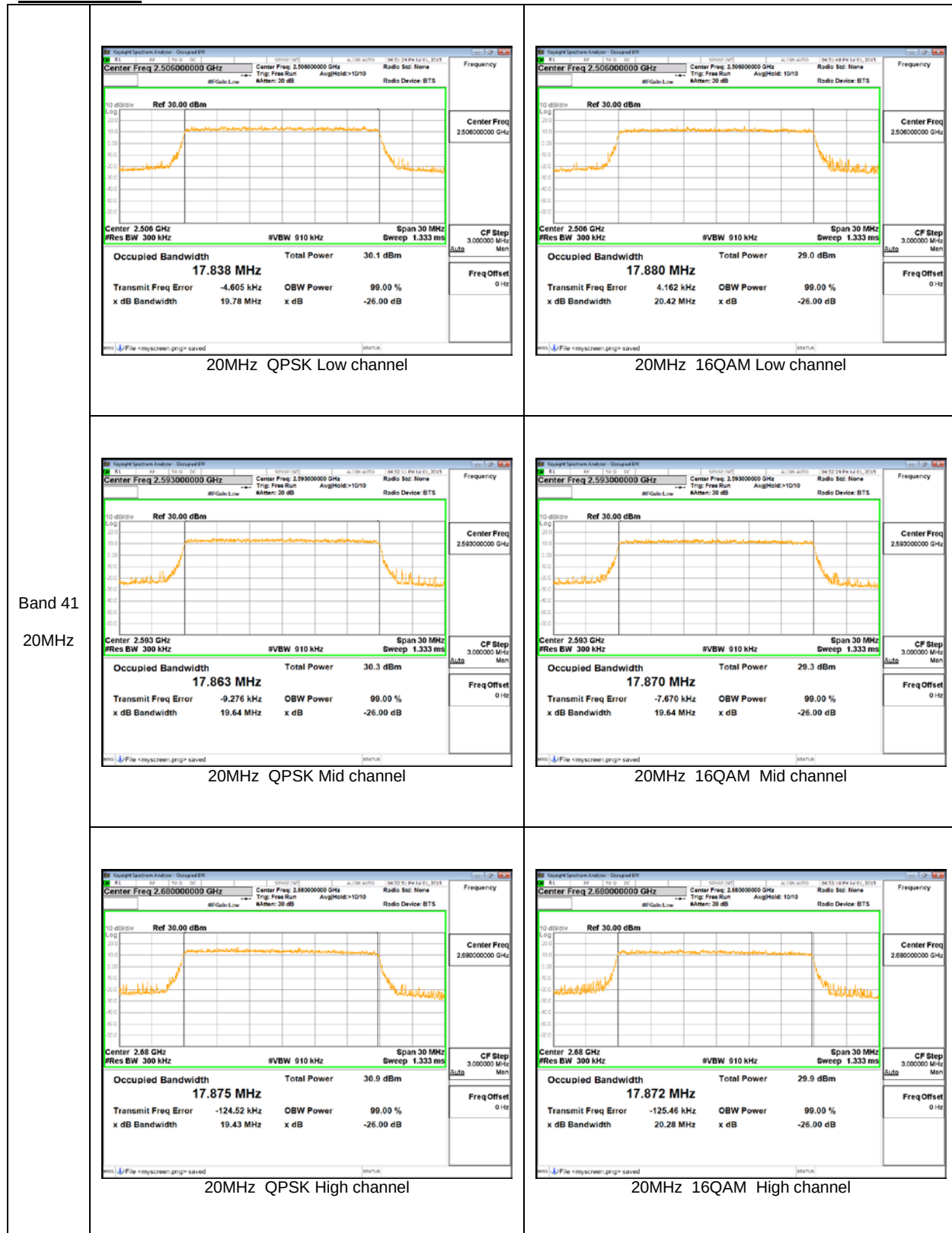
Band	BW [MHz]	Channel	f [MHz]	Mode	99% BW [MHz]	26dB BW [MHz]
Band 4	20	20050	1720.0	QPSK	17.860	19.50
				16QAM	17.889	19.90
		20174	1732.5	QPSK	17.873	19.78
				16QAM	17.882	19.75
		20299	1745.0	QPSK	17.910	19.86
				16QAM	17.911	19.74
	15	20025	1717.5	QPSK	13.449	15.09
				16QAM	13.450	15.19
		20174	1732.5	QPSK	13.434	14.96
				16QAM	13.425	15.20
		20324	1747.5	QPSK	13.459	15.21
				16QAM	13.436	15.21
	10	20000	1715.0	QPSK	8.9805	10.34
				16QAM	8.9600	10.46
		20174	1732.5	QPSK	8.9769	10.35
				16QAM	8.9619	10.35
		20349	1750.0	QPSK	8.9700	10.32
				16QAM	8.9894	10.24
	5	19975	1712.5	QPSK	4.5014	5.348
				16QAM	4.5015	5.312
		20174	1732.5	QPSK	4.4959	5.257
				16QAM	4.5099	5.342
		20374	1752.5	QPSK	4.5015	5.202
				16QAM	4.4952	5.380
	3	19965	1711.5	QPSK	2.6956	3.021
				16QAM	2.6976	3.070
		20174	1732.5	QPSK	2.7008	3.092
				16QAM	2.7027	3.087
		20384	1753.5	QPSK	2.7048	3.084
				16QAM	2.6983	3.059
	1.4	19957	1710.7	QPSK	1.0911	1.350
				16QAM	1.0934	1.347
		20174	1732.5	QPSK	1.0915	1.383
				16QAM	1.0930	1.415
		20392	1754.3	QPSK	1.0932	1.433
				16QAM	1.0949	1.422

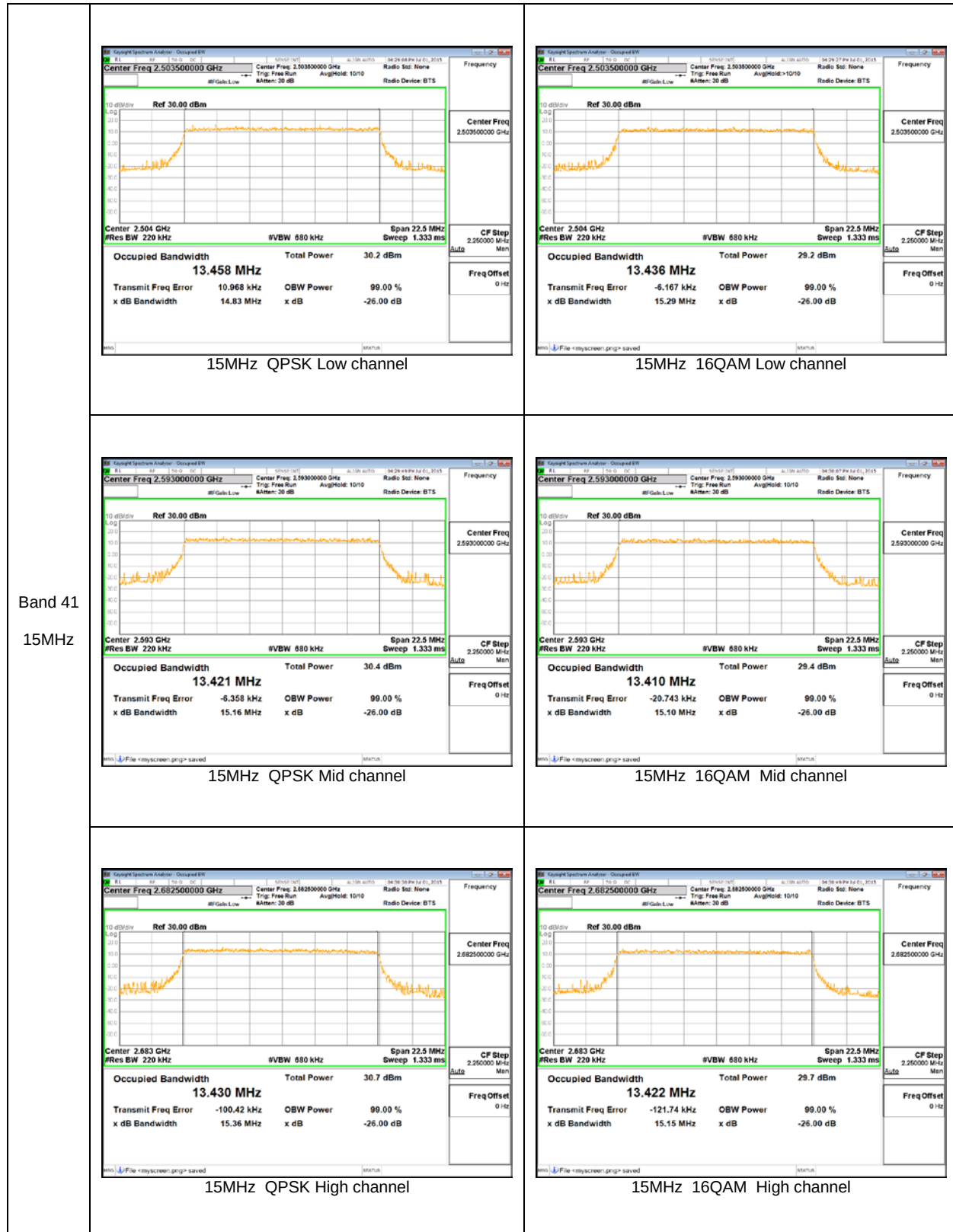
LTE Band 2

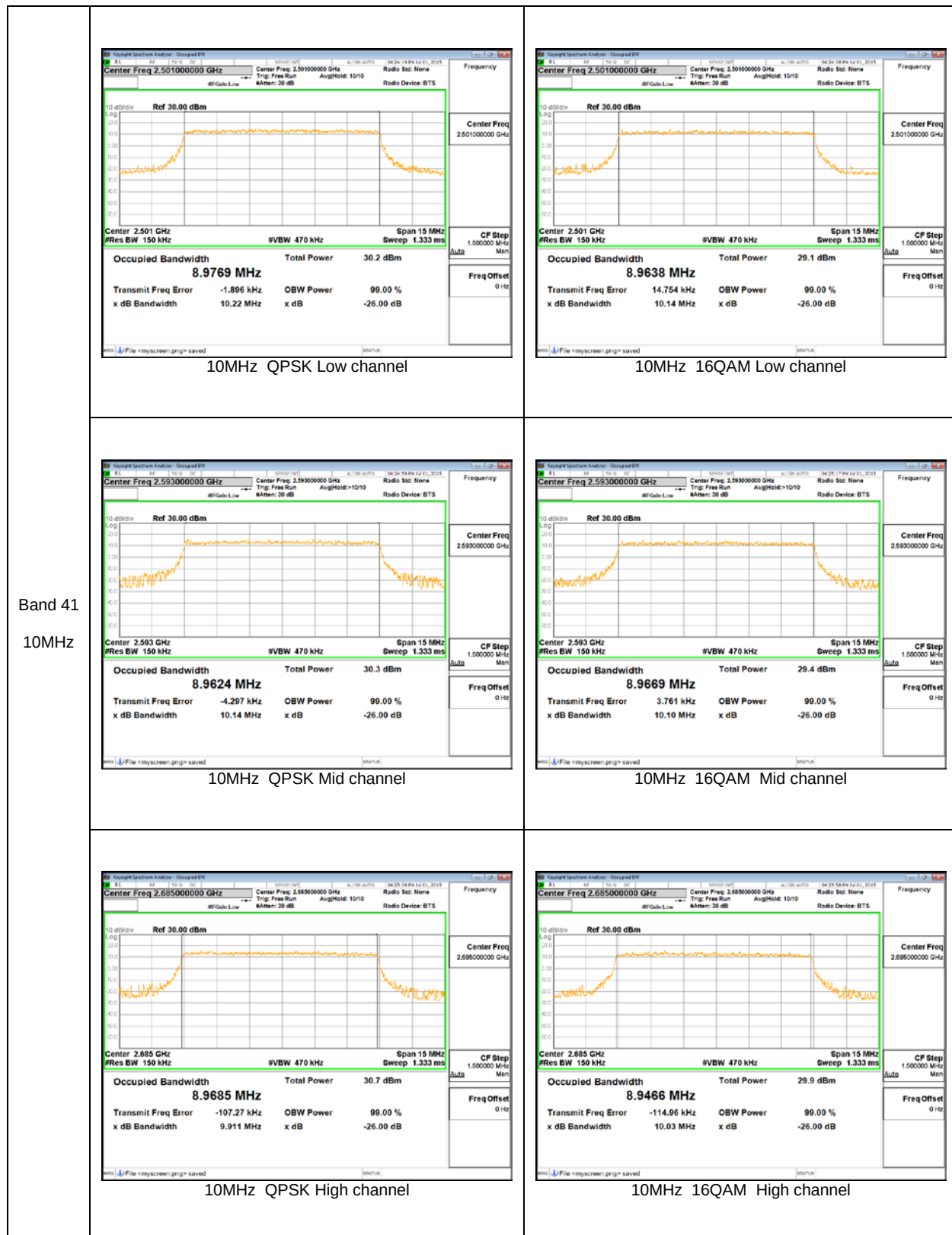
Due to frequency range and same output power setting, test was carried in LTE Band 25 to cover both LTE Band 25 and LTE Band 2

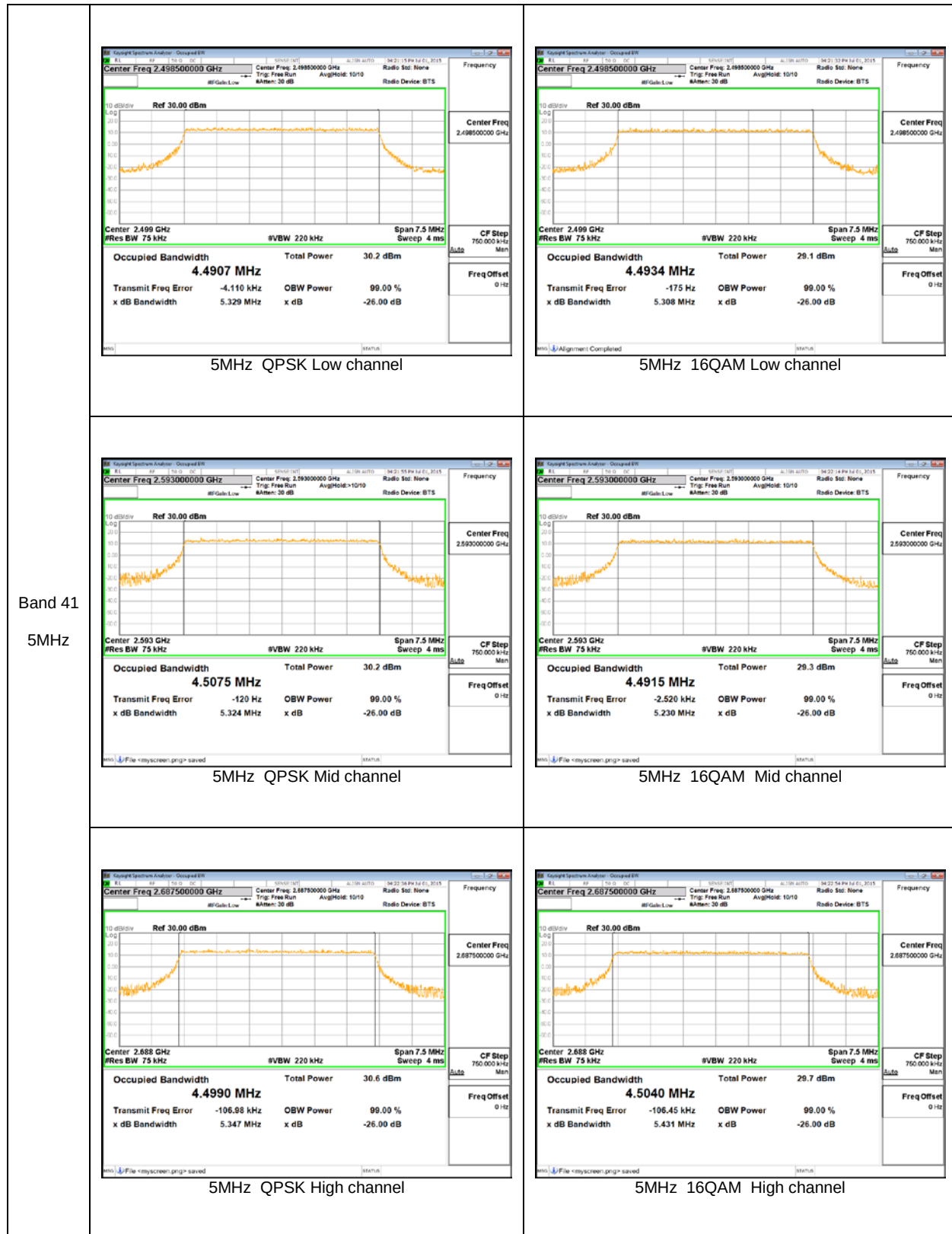
10.1.2. OCCUPIED BANDWIDTH PLOTS

LTE Band 41

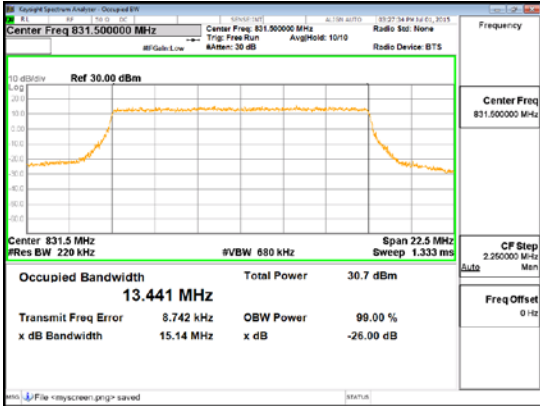
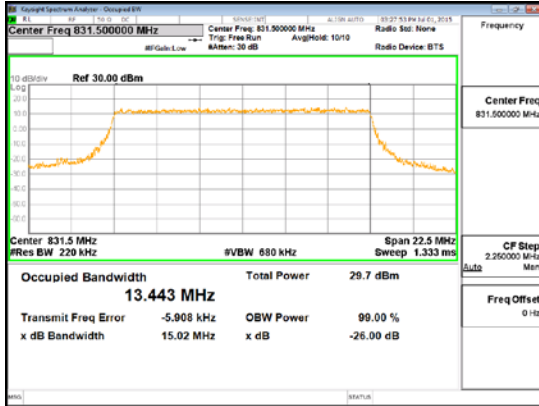
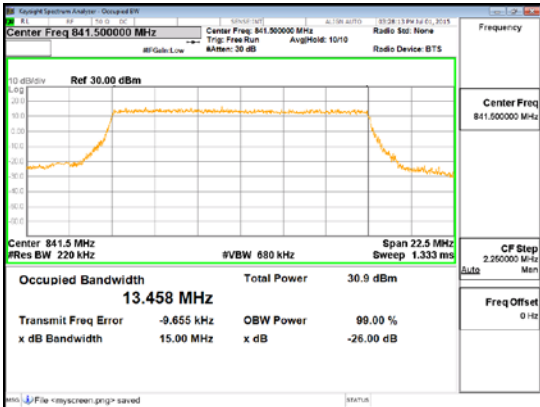
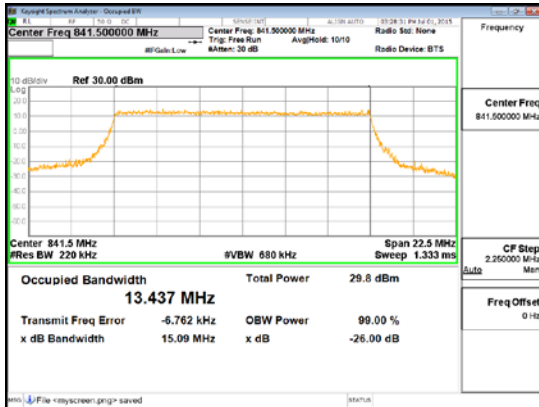








LTE Band 26

	 15MHz QPSK Low channel	 15MHz 16QAM Low channel
Band 26 15MHz	 15MHz QPSK High channel	 15MHz 16QAM High channel

