

FCC TEST REPORT

For

NFC Android Reader

Model Number: FX205F

FCC ID: 2AGQIFX205

Report Number : WT198003471

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Inspection
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Test report declaration

Applicant : FAMOCO SAS
Address : 59 avenue Victor Hugo Paris, France

Manufacturer : FAMOCO SAS
Address : 59 avenue Victor Hugo Paris, France

EUT : NFC Android Reader
Description
Model No : FX205F
Trade mark : FAMOCO
FCC ID : 2AGQIFX205

Test Standards:
FCC PART 22H , 24E AND 27(2018)

The EUT described above is tested by Shenzhen Academy of Metrology and Quality Inspection EMC Laboratory to determine the maximum emissions from the EUT. Shenzhen Academy of Metrology and Quality Inspection EMC Laboratory is assumed full responsibility for the accuracy of the test results. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.26 (2015) & KDB971168 and the energy emitted by the sample EUT tested as described in this report is in compliance with FCC Rules Part 22H, 24E and 27.

The test report is valid for above tested sample only and shall not be reproduced in part without written approval of the laboratory.

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1. TEST RESULTS SUMMARY

Table 1 Test Results Summary

FCC Measurement Specification	FCC Limits Part(s)	Description	Result
2.1046	22.913 24.232 27.50 (b) 27.50(c) 27.50(d) 27.50(h)	Effective Radiated Power of Transmitter	PASS
2.1046	22.913 24.232 27.50 (b) 27.50(c) 27.50(d) 27.50(h)	Peak to Average Ratio	PASS
2.1049	22.917(b) 24.238(b) 27.53	Occupied Bandwidth	PASS
2.1051	22.917 24.238 27.53	Spurious Emission at Antenna Terminal	PASS
2.1053	22.917 24.238 27.53	Radiated Spurious Emissions	PASS
2.1055	22.355 24.235 27.54	Frequency Stability	PASS

Remark: "N/A" means "Not applicable."

The tests documented in this report were performed in accordance with ANSI C63.26 (2015), FCC CFR 47 Part 2, Part 22H, 24E & Part 27.

2. GENERAL INFORMATION

2.1. Report information

This report is not a certificate of quality; it only applies to the sample of the specific product/equipment given at the time of its testing. The results are not used to indicate or imply that they are application to the similar items. In addition, such results must not be used to indicate or imply that SMQ approves recommends or endorses the manufacture, supplier or use of such product/equipment, or that SMQ in any way guarantees the later performance of the product/equipment.

The samples mentioned in this report is/are supplied by Applicant, SMQ therefore assumes no responsibility for the accuracy of information on the brand name, model number, origin of manufacture or any information supplied.

Additional copies of the report are available to the Applicant at an additional fee. No third part can obtain a copy of this report through SMQ, unless the applicant has authorized SMQ in writing to do so.

2.2. Laboratory Accreditation and Relationship to Customer

The testing report were performed by the Shenzhen Academy of Metrology and The testing report were performed by the Shenzhen Academy of Metrology and quality Inspection EMC Laboratory (Guangdong EMC compliance testing center), in their facilities located at NETC Building, No.4 Tongfa Rd., Xili, Nanshan, Shenzhen, China. At the time of testing, Laboratory is accredited by the following organizations:

China National Accreditation Service for Conformity Assessment (CNAS) accredits the Laboratory for conformance to FCC standards, EMC international standards and EN standards. The Registration Number is CNAS L0579.

The Laboratory is Accredited Testing Laboratory of FCC with Designation number CN1165 and Site registration number 582918.

The Laboratory is registered to perform emission tests with Innovation, Science and Economic Development (ISED), and the registration number is 11177A.

2.3.Measurement Uncertainty

For a 95% confidence level ($k = 2$), the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 as following:

Radiated Emission

30MHz~1000MHz 4.5dB

1GHz~26.5GHz 4.6dB

26dB & Occupied Bandwidth: $\pm 0.39\%$

Frequency Stability: $\pm 0.42\%$

Peak to Average Ratio: 0.45 dB

Conducted power: 0.3 dB

Temperature: ± 0.698

Supply voltages: $\pm 0.15\%$

3. PRODUCT DESCRIPTION

3.1.EUT Description

Table 2 Specification of the Equipment under Test

Product Type:	NFC Android Reader
Hardware Revision :	F205_MB_V2.0
Software Revision :	MOLY.LR12A.R2.MP.V44.1
FCC ID:	2AGQIFX205
Frequency:	<p>GSM850: TX 824MHz~849MHz RX 869MHz~894MHz</p> <p>PCS1900: TX 1850MHz~1910MHz RX 1930MHz~1990MHz</p> <p>WCDMA 850: TX 824MHz~849MHz RX 869MHz~894MHz</p> <p>WCDMA 1900: TX 1850MHz~1910MHz RX 1930MHz~1990MHz</p> <p>LTE Band 2: TX 1850MHz~1910MHz RX 1930MHz~1990MHz</p> <p>LTE Band 4: TX: 1710MHz~1755MHz RX 2110MHz~2155MHz</p> <p>LTE Band 5: TX 824MHz~849MHz RX 869MHz~894MHz</p> <p>LTE Band 7: TX 2500MHz~2570MHz RX 2620MHz~2690MHz</p> <p>LTE Band 12: TX 699 ~ 716MHz RX 729 ~ 746MHz</p> <p>LTE Band 13: TX 777~ 787MHz RX 746~ 756MHz</p> <p>LTE Band 17: TX 704~716MHz RX 734~ 746MHz</p> <p>LTE Band 38: TX 2570MHz~2620MHz RX 2570MHz~2620MHz</p> <p>LTE Band 41: TX 2555MHz~2655MHz RX: 2555MHz~2655MHz</p>
Type(s) of Modulation:	<p>GSM:GMSK, 8PSK</p> <p>WCDMA:QPSK</p> <p>LTE:QPSK, 16QAM</p>
Antenna Type:	PIFA antenna
Antenna Gain:	<p>699MHz~800MHz: -0.4dBi</p> <p>824MHz~849MHz: -0.39dBi</p> <p>1710MHz~1780MHz: 0.45dBi</p> <p>1850MHz~1910MHz: 0.46dBi</p> <p>2500MHz~2570MHz: 1.17dBi</p>
Operating voltage:	DC: 3.5V (Low)/3.8V (Nominal)/ 4.35V (Max)

Table 3 Identification of the Equipment Under Test (EUT)

EUT	Serial Number/IMEI	HW Version	SW Version	Notes
1	355288100115395	F205_MB_V2.0	MOLY.LR12A.R 2.MP.V44.1	Conducted testing sample.
2.	355288100115452	F205_MB_V2.0	MOLY.LR12A.R 2.MP.V44.1	Conducted testing sample.
3	355288100115478	F205_MB_V2.0	MOLY.LR12A.R 2.MP.V44.1	Radiated testing sample.

Table 4 Identification of Accessory equipment

AE #	Type	Manufacturer	Model	Serial Number
--	--	--	--	--

3.2. Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: 2AGQIFX205 filing to comply with FCC PART 22H, 24E AND 27.

3.3. Block Diagram of EUT Configuration

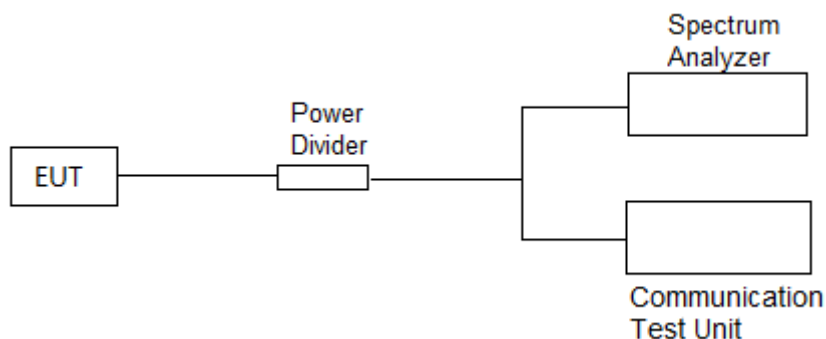


Figure 1 EUT setup of test mode 1, 2, 3, 4, 5

3.4. Operating Condition of EUT

During all testing, EUT is in link mode with base station emulator at maximum power level. The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range, and EUT is rotated on three test planes to find out the worst emission (X plane).

- TM1:** GSM Mode with GMSK Modulation
- TM2:** EDGE Mode with 8PSK Modulation
- TM3:** WCDMA Mode with QPSK Modulation
- TM4:** LTE Mode with QPSK Modulation
- TM5:** LTE Mode with 16QAM Modulation

The maximum power levels are GSM mode for GMSK link, Edge mode for 8PSK link, WCDMA mode for QPSK link, LTE Mode for QPSK link ,LTE mode for 16QAM link. only these modes were used for all tests.

The conducted power tables are as follows:

Band: GSM850	Average Power [dBm]		
Channel	128	190	251
Frequency (MHz)	824.2	836.6	848.8
GSM (GMSK, 1 Tx slot)	32.97	32.99	32.51
GPRS (GMSK, 1 Tx slot)	32.95	32.95	32.46
GPRS (GMSK, 2 Tx slots)	32.11	32.15	31.66
GPRS (GMSK, 3 Tx slots)	30.31	30.39	29.88
GPRS (GMSK, 4 Tx slots)	29.14	29.23	28.72
EDGE (8PSK, 1 Tx slot)	28.57	28.49	28.84
EDGE (8PSK, 2 Tx slot)	26.83	27.06	27.60
EDGE (8PSK, 3 Tx slot)	24.17	24.81	25.60
EDGE (8PSK, 4 Tx slot)	23.03	23.07	23.64

Band: GSM1900	Average Power [dBm]		
Channel	512	661	810
Frequency (MHz)	1850.2	1880	1909.8
GSM (GMSK, 1 Tx slot)	30.71	30.51	30.24
GPRS (GMSK, 1 Tx slot)	30.66	30.38	30.09
GPRS (GMSK, 2 Tx slots)	29.62	29.38	29.30
GPRS (GMSK, 3 Tx slots)	27.99	27.79	27.66
GPRS (GMSK, 4 Tx slots)	26.80	26.65	26.53
EDGE (8PSK, 1 Tx slot)	26.77	26.83	26.74
EDGE (8PSK, 2 Tx slot)	24.96	25.20	25.14
EDGE (8PSK, 3 Tx slot)	22.57	22.76	22.62
EDGE (8PSK, 4 Tx slot)	20.94	21.25	21.21

Band: WCDMA Band II	Average Power [dBm]		
Channel	9262	9400	9538
Frequency (MHz)	1852.4	1880.0	1907.6
RMC 12.2K	22.23	22.19	22.35
HSDPA Subtest-1	21.15	21.65	21.69
HSDPA Subtest-2	20.68	21.07	21.31
HSDPA Subtest-3	21.07	21.18	21.24
HSDPA Subtest-4	20.76	21.11	21.05
HSUPA Subtest-1	20.75	21.23	21.38
HSUPA Subtest-2	20.11	20.57	20.72
HSUPA Subtest-3	20.34	20.11	20.29
HSUPA Subtest-4	20.51	20.96	20.92
HSUPA Subtest-5	21.27	21.29	21.56

Band :WCDMA Band V	Average Power [dBm]		
Channel	4,132	4,182	4,233
Frequency (MHz)	826.4	836.4	846.6
RMC 12.2K	23.50	23.20	23.10
HSDPA Subtest-1	22.68	22.49	22.36
HSDPA Subtest-2	22.00	21.71	21.64
HSDPA Subtest-3	22.01	21.64	21.61
HSDPA Subtest-4	21.96	21.61	21.56
HSUPA Subtest-1	20.25	20.31	20.46
HSUPA Subtest-2	20.45	20.46	20.65
HSUPA Subtest-3	21.24	21.34	21.49
HSUPA Subtest-4	19.92	19.97	20.07
HSUPA Subtest-5	21.42	21.44	21.63

LTE Band 2(Bandwidth: 1.4MHz)

Channel Bandwidth: 1.4 MHz					
Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power [dBm]
			Size	Offset	
QPSK	18607	1850.7	1	0	23.61
			1	3	23.76
			1	5	23.59
			3	0	23.65
			3	2	23.69
			3	3	23.66
	18900	1880	6	0	22.66
			1	0	23.30
			1	3	23.39
			1	5	23.30
			3	0	23.39
			3	2	23.38
	19193	1909.3	3	3	23.34
			6	0	22.34
			1	0	23.11
			1	3	23.23
			1	5	23.09
			3	0	23.14
16QAM	18607	1850.7	3	2	22.60
			3	3	22.59
			6	0	21.57
			1	0	22.79
			1	3	22.97
			1	5	22.81
	18900	1880	3	0	22.74
			3	2	22.77
			3	3	22.76
			6	0	21.66
			1	0	22.56
			1	3	22.77
	19193	1909.3	1	5	22.57
			3	0	22.30
			3	2	22.32
			3	3	22.34
			6	0	21.38
			1	0	22.27
			1	3	22.47
			1	5	22.28
			3	0	22.17
			3	2	21.61
			3	3	21.61
			6	0	20.71

LTE Band 2(Bandwidth: 3MHz)

Channel Bandwidth: 3 MHz					
Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power [dBm]
			Size	Offset	
QPSK	18615	1851.5	1	0	22.93
			1	7	22.92
			1	14	22.91
			8	0	21.97
			8	4	21.95
			8	7	21.92
	18900	1880	15	0	21.90
			1	0	22.77
			1	7	22.72
			1	14	22.74
			8	0	21.76
			8	4	21.83
	19185	1908.5	8	7	21.76
			15	0	21.72
			1	0	22.57
			1	7	22.60
			1	14	22.57
			8	0	21.53
16QAM	18615	1851.5	8	4	21.60
			8	7	21.55
			15	0	21.54
			1	0	22.17
			1	7	22.17
			1	14	22.13
	18900	1880	8	0	21.07
			8	4	21.08
			8	7	21.00
			15	0	20.90
			1	0	22.04
			1	7	22.05
	19185	1908.5	1	14	22.11
			8	0	20.80
			8	4	20.82
			8	7	20.78
			15	0	20.76
			1	0	21.78
19185	1908.5	1	7	21.77	
		1	14	21.76	
		8	0	20.56	
		8	4	20.59	
		8	7	20.56	
		15	0	20.58	

LTE Band 2 (Bandwidth: 5MHz)

Channel Bandwidth: 5 MHz					
Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power [dBm]
			Size	Offset	
QPSK	18625	1852.5	1	0	22.96
			1	12	23.22
			1	24	22.93
			12	0	21.89
			12	6	21.96
			12	13	21.93
	18900	1880	25	0	21.95
			1	0	22.77
			1	12	23.10
			1	24	22.76
			12	0	21.82
			12	6	21.81
	19175	1907.5	12	13	21.77
			25	0	21.80
			1	0	22.58
			1	12	22.85
			1	24	22.60
			12	0	21.62
16QAM	18625	1852.5	12	6	21.63
			12	13	21.52
			25	0	21.62
			1	0	22.17
			1	12	22.41
			1	24	22.16
	18900	1880	12	0	20.99
			12	6	21.09
			12	13	21.14
			25	0	21.00
			1	0	21.93
			1	12	22.22
	19175	1907.5	1	24	21.95
			12	0	20.98
			12	6	21.00
			12	13	20.91
			25	0	20.87
			1	0	21.69
18625	1852.5	1	12	22.00	
		1	24	21.67	
		12	0	20.59	
		12	6	20.56	
		12	13	20.56	
		25	0	20.62	

LTE Band 2 (Bandwidth: 10MHz)

Channel Bandwidth: 10 MHz					
Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power [dBm]
			Size	Offset	
QPSK	18650	1855	1	0	22.95
			1	24	23.10
			1	49	22.85
			25	0	21.93
			25	12	22.00
			25	25	22.10
	18900	1880	50	0	21.96
			1	0	22.82
			1	24	22.93
			1	49	22.72
			25	0	21.94
			25	12	21.85
	19150	1905	25	25	21.86
			50	0	21.77
			1	0	22.61
			1	24	22.73
			1	49	22.50
			25	0	21.62
16QAM	18650	1855	25	12	21.63
			25	25	21.56
			50	0	21.69
			1	0	22.23
			1	24	22.38
			1	49	22.13
	18900	1880	25	0	21.01
			25	12	21.05
			25	25	21.16
			50	0	21.03
			1	0	22.10
			1	24	22.27
	19150	1905	1	49	21.92
			25	0	20.98
			25	12	20.89
			25	25	20.95
			50	0	20.81
			1	0	21.79
18650	1855	1	24	21.89	
		1	49	21.49	
		25	0	20.82	
		25	12	20.51	
		25	25	20.56	
		50	0	20.62	

LTE Band 2 (Bandwidth: 15MHz)

Channel Bandwidth: 15 MHz					
Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power [dBm]
			Size	Offset	
QPSK	18675	1857.5	1	0	22.93
			1	37	22.97
			1	74	22.71
			37	0	21.92
			37	18	21.97
			37	38	22.01
	75	0	21.99		
	18900	1880	1	0	22.81
			1	37	22.83
			1	74	22.68
			37	0	22.00
			37	18	21.91
			37	38	21.87
	75	0	21.98		
	19125	1902.5	1	0	22.64
			1	37	22.65
			1	74	22.55
			37	0	21.86
37			18	21.76	
37			38	21.66	
75	0	21.78			
16QAM	18675	1857.5	1	0	22.18
			1	37	22.23
			1	74	21.94
			37	0	20.95
			37	18	21.02
			37	38	21.06
	75	0	21.00		
	18900	1880	1	0	21.96
			1	37	22.06
			1	74	21.95
			37	0	21.00
			37	18	20.97
			37	38	20.95
	75	0	20.97		
	19125	1902.5	1	0	21.85
			1	37	21.79
			1	74	21.75
			37	0	20.86
37			18	20.77	
37			38	20.65	
75	0	20.79			

LTE Band 2 (Bandwidth: 20MHz)

Channel Bandwidth: 20 MHz					
Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power [dBm]
			Size	Offset	
QPSK	18700	1860	1	0	22.88
			1	49	23.18
			1	99	22.69
			50	0	21.73
			50	25	21.96
			50	50	21.73
	100	0	21.74		
	18900	1880	1	0	22.74
			1	49	23.02
			1	99	22.53
			50	0	21.99
			50	25	21.86
			50	50	21.81
	19100	1900	100	0	21.95
			1	0	22.41
			1	49	22.71
			1	99	22.26
			50	0	21.59
50			25	21.67	
16QAM	18700	1860	50	50	21.42
			100	0	21.56
			1	0	22.02
			1	49	22.26
			1	99	21.75
			50	0	20.79
	18900	1880	50	25	21.00
			50	50	20.80
			100	0	20.79
			1	0	21.94
			1	49	22.29
			1	99	21.88
	19100	1900	50	0	21.08
			50	25	20.85
			50	50	20.93
			100	0	20.99
			1	0	21.72
			1	49	21.93
			1	99	21.45
			50	0	20.77
			50	25	20.73
			50	50	20.44
			100	0	20.61

LTE Band 4 (Bandwidth: 1.4MHz)

Channel Bandwidth: 1.4 MHz					
Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power [dBm]
			Size	Offset	
QPSK	131979	1710.7	1	0	22.63
			1	3	22.72
			1	5	22.65
			3	0	22.71
			3	2	22.69
			3	3	22.72
	132322	1745	6	0	21.71
			1	0	22.69
			1	3	22.75
			1	5	22.67
			3	0	22.72
			3	2	22.71
	132665	1779.3	3	3	22.74
			6	0	21.85
			1	0	22.68
			1	3	22.80
			1	5	22.65
			3	0	22.72
16QAM	131979	1710.7	3	2	22.65
			3	3	22.68
			6	0	21.83
			1	0	21.94
			1	3	22.08
			1	5	21.93
	132322	1745	3	0	21.61
			3	2	21.66
			3	3	21.64
			6	0	20.57
			1	0	21.87
			1	3	22.04
	132665	1779.3	1	5	21.86
			3	0	21.80
			3	2	21.80
			3	3	21.81
			6	0	20.87
			1	0	21.83
			1	3	21.98
			1	5	21.85
			3	0	21.83
			3	2	21.81
			3	3	21.78
			6	0	20.64

LTE Band 4 (Bandwidth: 3MHz)

Channel Bandwidth: 3 MHz					
Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power [dBm]
			Size	Offset	
QPSK	131987	1711.5	1	0	22.72
			1	7	22.75
			1	14	22.80
			8	0	21.74
			8	4	21.78
			8	7	21.78
	15	0	21.69		
	132322	1745	1	0	22.82
			1	7	22.74
			1	14	22.77
			8	0	21.88
			8	4	21.92
			8	7	21.84
	15	0	21.82		
	132657	1778.5	1	0	22.73
			1	7	22.70
			1	14	22.71
			8	0	21.86
8			4	21.89	
8			7	21.81	
15	0	21.82			
16QAM	131987	1711.5	1	0	22.00
			1	7	22.06
			1	14	22.10
			8	0	20.68
			8	4	20.72
			8	7	20.69
	15	0	20.66		
	132322	1745	1	0	22.00
			1	7	21.98
			1	14	21.93
			8	0	20.73
			8	4	20.79
			8	7	20.71
	15	0	20.75		
	132657	1778.5	1	0	21.93
			1	7	21.89
			1	14	21.91
			8	0	20.85
8			4	20.85	
8			7	20.78	
15	0	20.72			

LTE Band 4 (Bandwidth: 5MHz)

Channel Bandwidth: 5 MHz					
Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power [dBm]
			Size	Offset	
QPSK	131997	1712.5	1	0	22.67
			1	12	23.10
			1	24	22.79
			12	0	21.74
			12	6	21.77
			12	13	21.74
	132322	1745	25	0	21.76
			1	0	22.79
			1	12	23.11
			1	24	22.83
			12	0	21.81
			12	6	21.83
	132647	1777.5	12	13	21.82
			25	0	21.80
			1	0	22.71
			1	12	23.07
			1	24	22.67
			12	0	21.79
16QAM	131997	1712.5	12	6	21.85
			12	13	21.79
			25	0	21.80
			1	0	21.82
			1	12	22.22
			1	24	21.94
	132322	1745	12	0	20.78
			12	6	20.84
			12	13	20.84
			25	0	20.73
			1	0	21.92
			1	12	22.19
	132647	1777.5	1	24	21.93
			12	0	20.75
			12	6	20.79
			12	13	20.79
			25	0	20.81
			1	0	21.88
			1	12	22.19
			1	24	21.90
			12	0	20.81
			12	6	20.83
			12	13	20.80
			25	0	20.76

LTE Band 4 (Bandwidth: 10MHz)

Channel Bandwidth: 10 MHz					
Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power [dBm]
			Size	Offset	
QPSK	132022	1715	1	0	23.02
			1	24	23.24
			1	49	23.12
			25	0	22.09
			25	12	22.14
			25	25	22.23
	132322	1745	50	0	22.14
			1	0	23.16
			1	24	23.36
			1	49	23.23
			25	0	22.25
			25	12	22.27
	132622	1775	25	25	22.29
			50	0	22.25
			1	0	23.22
			1	24	23.41
			1	49	23.20
			25	0	22.36
16QAM	132022	1715	25	12	22.33
			25	25	22.29
			50	0	22.32
			1	0	22.26
			1	24	22.58
			1	49	22.51
	132322	1745	25	0	21.12
			25	12	21.12
			25	25	21.24
			50	0	21.16
			1	0	22.37
			1	24	22.56
	132622	1775	1	49	22.41
			25	0	21.23
			25	12	21.22
			25	25	21.28
			50	0	21.23
			1	0	22.31
132022	1715	1	24	22.50	
		1	49	22.38	
		25	0	21.29	
		25	12	21.24	
		25	25	21.25	
		50	0	21.24	

LTE Band 4 (Bandwidth: 15MHz)

Channel Bandwidth: 15 MHz					
Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power [dBm]
			Size	Offset	
QPSK	132047	1717.5	1	0	22.84
			1	37	22.98
			1	74	22.93
			37	0	22.13
			37	18	22.16
			37	38	22.25
	132322	1745	75	0	22.20
			1	0	22.97
			1	37	23.13
			1	74	23.10
			37	0	22.21
			37	18	22.23
	132597	1772.5	37	38	22.32
			75	0	22.29
			1	0	23.09
			1	37	23.27
			1	74	23.14
			37	0	22.46
16QAM	132047	1717.5	37	18	22.47
			37	38	22.43
			75	0	22.47
			1	0	21.99
			1	37	22.23
			1	74	22.20
	132322	1745	37	0	21.01
			37	18	21.11
			37	38	21.14
			75	0	21.12
			1	0	22.24
			1	37	22.35
	132597	1772.5	1	74	22.26
			37	0	21.16
			37	18	21.19
			37	38	21.26
			75	0	21.18
			1	0	22.20
132047	1717.5	1	37	22.33	
		1	74	22.27	
		37	0	21.29	
		37	18	21.29	
		37	38	21.27	
		75	0	21.29	

LTE Band 4 (Bandwidth: 20MHz)

Channel Bandwidth: 20 MHz					
Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power [dBm]
			Size	Offset	
QPSK	132072	1720	1	0	22.78
			1	49	23.21
			1	99	22.91
			50	0	21.97
			50	25	22.07
			50	50	22.07
	132322	1745	100	0	22.02
			1	0	22.80
			1	49	23.28
			1	99	23.01
			50	0	22.07
			50	25	22.11
	132572	1770	50	50	22.08
			100	0	22.03
			1	0	22.73
			1	49	23.23
			1	99	22.80
			50	0	22.17
16QAM	132072	1720	50	25	22.19
			50	50	22.05
			100	0	22.10
			1	0	21.84
			1	49	22.35
			1	99	22.05
	132322	1745	50	0	20.92
			50	25	21.03
			50	50	21.04
			100	0	20.95
			1	0	22.14
			1	49	22.55
	132572	1770	1	99	22.23
			50	0	21.09
			50	25	21.12
			50	50	21.08
			100	0	21.00
			1	0	21.97
132072	1720	1	49	22.34	
		1	99	22.04	
		50	0	21.15	
		50	25	21.12	
		50	50	21.01	
		100	0	21.04	

LTE Band 5(Bandwidth: 1.4MHz)

Channel Bandwidth: 1.4 MHz					
Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power [dBm]
			Size	Offset	
QPSK	20407	824.7	1	0	22.87
			1	3	23.02
			1	5	22.91
			3	0	22.93
			3	2	22.94
			3	3	22.93
	20525	836.5	6	0	21.96
			1	0	22.83
			1	3	22.93
			1	5	22.82
			3	0	22.89
			3	2	22.88
	20643	848.3	3	3	22.91
			6	0	21.85
			1	0	22.89
			1	3	23.03
			1	5	22.93
			3	0	22.93
16QAM	20407	824.7	3	2	22.93
			3	3	22.97
			6	0	21.96
			1	0	21.90
			1	3	22.09
			1	5	21.93
	20525	836.5	3	0	21.81
			3	2	21.80
			3	3	21.77
			6	0	20.97
			1	0	21.90
			1	3	22.09
	20643	848.3	1	5	21.93
			3	0	21.80
			3	2	21.79
			3	3	21.76
			6	0	20.93
			1	0	21.88
20407	824.7	1	3	22.05	
		1	5	21.94	
		3	0	21.84	
		3	2	21.82	
		3	3	21.83	
		6	0	21.00	

LTE Band 5(Bandwidth: 3MHz)

Channel Bandwidth: 3 MHz					
Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power [dBm]
			Size	Offset	
QPSK	20415	825.5	1	0	23.53
			1	7	23.57
			1	14	23.52
			8	0	22.53
			8	4	22.59
			8	7	22.55
	20525	836.5	15	0	22.46
			1	0	23.40
			1	7	23.45
			1	14	23.48
			8	0	22.43
			8	4	22.52
	20635	847.5	8	7	22.49
			15	0	22.45
			1	0	23.43
			1	7	23.49
			1	14	23.53
			8	0	22.48
16QAM	20415	825.5	8	4	22.53
			8	7	22.54
			15	0	22.47
			1	0	22.85
			1	7	22.87
			1	14	22.85
	20525	836.5	8	0	21.54
			8	4	21.61
			8	7	21.58
			15	0	21.50
			1	0	22.68
			1	7	22.71
	20635	847.5	1	14	22.70
			8	0	21.53
			8	4	21.65
			8	7	21.58
			15	0	21.45
			1	0	22.64
20415	825.5	1	7	22.69	
		1	14	22.72	
		8	0	21.56	
		8	4	21.64	
		8	7	21.59	
		15	0	21.48	

LTE Band 5(Bandwidth: 5MHz)

Channel Bandwidth: 5 MHz					
Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power [dBm]
			Size	Offset	
QPSK	20425	826.5	1	0	23.50
			1	12	23.94
			1	24	23.58
			12	0	22.53
			12	6	22.63
			12	13	22.54
	20525	836.5	25	0	22.57
			1	0	23.45
			1	12	23.88
			1	24	23.51
			12	0	22.48
			12	6	22.52
	20625	846.5	12	13	22.48
			25	0	22.50
			1	0	23.41
			1	12	23.86
			1	24	23.58
			12	0	22.47
16QAM	20425	826.5	12	6	22.56
			12	13	22.51
			25	0	22.53
			1	0	22.67
			1	12	23.03
			1	24	22.72
	20525	836.5	12	0	21.67
			12	6	21.78
			12	13	21.68
			25	0	21.62
			1	0	22.61
			1	12	23.02
	20625	846.5	1	24	22.74
			12	0	21.59
			12	6	21.65
			12	13	21.61
			25	0	21.59
			1	0	22.57
20425	826.5	1	12	23.15	
		1	24	22.71	
		12	0	21.57	
		12	6	21.66	
		12	13	21.61	
		25	0	21.53	

LTE Band 5 (Bandwidth: 10MHz)

Channel Bandwidth: 10 MHz					
Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power [dBm]
			Size	Offset	
QPSK	20450	829	1	0	23.59
			1	24	23.78
			1	49	23.64
			25	0	22.69
			25	12	22.62
			25	25	22.55
	20525	836.5	50	0	22.59
			1	0	23.44
			1	24	23.65
			1	49	23.66
			25	0	22.59
			25	12	22.60
	20600	844	25	25	22.65
			50	0	22.62
			1	0	23.29
			1	24	23.61
			1	49	23.65
			25	0	22.46
16QAM	20450	829	25	12	22.51
			25	25	22.56
			50	0	22.48
			1	0	22.86
			1	24	23.07
			1	49	22.96
	20525	836.5	25	0	21.72
			25	12	21.69
			25	25	21.67
			50	0	21.68
			1	0	22.66
			1	24	22.93
	20600	844	1	49	22.86
			25	0	21.68
			25	12	21.64
			25	25	21.71
			50	0	21.66
			1	0	22.52
			1	24	22.79
			1	49	22.79
			25	0	21.49
			25	12	21.57
			25	25	21.59
			50	0	21.54

LTE Band 7 (Bandwidth: 5MHz)

Channel Bandwidth: 5 MHz					
Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power [dBm]
			Size	Offset	
QPSK	20775	2502.5	1	0	20.78
			1	12	21.10
			1	24	20.82
			12	0	19.75
			12	6	19.84
			12	13	19.81
	21100	2535	25	0	19.84
			1	0	20.86
			1	12	21.15
			1	24	20.86
			12	0	19.82
			12	6	19.87
	21425	2567.5	12	13	19.87
			25	0	19.83
			1	0	20.86
			1	12	21.19
			1	24	20.89
			12	0	20.01
16QAM	20775	2502.5	12	6	20.04
			12	13	20.01
			25	0	20.02
			1	0	20.02
			1	12	20.37
			1	24	20.03
	21100	2535	12	0	18.90
			12	6	18.96
			12	13	18.97
			25	0	18.84
			1	0	19.97
			1	12	20.27
	21425	2567.5	1	24	19.99
			12	0	18.82
			12	6	18.88
			12	13	18.81
			25	0	18.87
			1	0	20.16
21425	2567.5	1	12	20.46	
		1	24	20.21	
		12	0	19.05	
		12	6	19.09	
		12	13	19.03	
		25	0	18.97	

LTE Band 7 (Bandwidth: 10MHz)

Channel Bandwidth: 10 MHz					
Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power [dBm]
			Size	Offset	
QPSK	20800	2505	1	0	20.79
			1	24	20.95
			1	49	20.82
			25	0	19.85
			25	12	19.87
			25	25	19.90
	21100	2535	50	0	19.86
			1	0	20.78
			1	24	20.97
			1	49	20.84
			25	0	19.91
			25	12	19.86
	21400	2565	25	25	19.96
			50	0	19.94
			1	0	20.86
			1	24	21.09
			1	49	20.94
			25	0	20.07
16QAM	20800	2505	25	12	20.03
			25	25	20.08
			50	0	20.03
			1	0	20.05
			1	24	20.27
			1	49	20.06
	21100	2535	25	0	18.85
			25	12	18.85
			25	25	18.92
			50	0	18.88
			1	0	20.13
			1	24	20.32
	21400	2565	1	49	20.21
			25	0	18.87
			25	12	18.88
			25	25	18.98
			50	0	18.92
			1	0	20.19
			1	24	20.39
			1	49	20.25
			25	0	19.03
			25	12	19.01
			25	25	19.08
			50	0	19.02

LTE Band 7 (Bandwidth: 15MHz)

Channel Bandwidth: 15 MHz					
Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power [dBm]
			Size	Offset	
QPSK	20825	2507.5	1	0	20.75
			1	37	20.87
			1	74	20.80
			37	0	19.81
			37	18	19.89
			37	38	19.92
	75	0	19.88		
	21100	2535	1	0	20.80
			1	37	20.90
			1	74	20.81
			37	0	19.92
			37	18	19.91
			37	38	19.96
	21375	2562.5	75	0	20.02
			1	0	20.76
			1	37	20.95
			1	74	20.84
			37	0	20.01
37			18	20.08	
16QAM	20825	2507.5	37	38	20.11
			75	0	20.09
			1	0	20.07
			1	37	20.14
			1	74	20.11
			37	0	18.86
	21100	2535	37	18	18.88
			37	38	18.94
			75	0	18.85
			1	0	19.97
			1	37	20.10
			1	74	20.03
	21375	2562.5	37	0	18.86
			37	18	18.87
			37	38	18.91
			75	0	18.93
			1	0	20.08
			1	37	20.25
21375	2562.5	1	74	20.15	
		37	0	18.99	
		37	18	19.03	
		37	38	19.06	
		75	0	19.03	
		75	0	19.03	

LTE Band 7 (Bandwidth: 20MHz)

Channel Bandwidth: 20 MHz					
Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power [dBm]
			Size	Offset	
QPSK	20850	2510	1	0	20.18
			1	49	20.61
			1	99	20.23
			50	0	19.30
			50	25	19.74
			50	50	19.82
	21100	2535	100	0	19.37
			1	0	20.00
			1	49	20.43
			1	99	20.12
			50	0	19.35
			50	25	19.51
	21350	2560	50	50	19.66
			100	0	19.48
			1	0	20.29
			1	49	20.74
			1	99	20.41
			50	0	19.48
16QAM	20850	2510	50	25	19.56
			50	50	19.55
			100	0	19.53
			1	0	19.51
			1	49	20.07
			1	99	19.54
	21100	2535	50	0	18.28
			50	25	18.67
			50	50	18.77
			100	0	18.31
			1	0	19.30
			1	49	19.72
	21350	2560	1	99	19.40
			50	0	18.38
			50	25	18.55
			50	50	18.63
			100	0	18.40
			1	0	19.46
21350	2560	1	49	19.88	
		1	99	19.58	
		50	0	18.45	
		50	25	18.53	
		50	50	18.52	
		100	0	18.46	

LTE Band 12(Bandwidth: 1.4MHz)

Channel Bandwidth: 1.4 MHz					
Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power [dBm]
			Size	Offset	
QPSK	23017	699.7	1	0	23.28
			1	3	23.41
			1	5	23.29
			3	0	23.28
			3	2	23.35
			3	3	23.29
	23095	707.5	6	0	22.38
			1	0	23.31
			1	3	23.48
			1	5	23.37
			3	0	23.37
			3	2	23.42
	23173	715.3	3	3	23.42
			6	0	22.43
			1	0	23.62
			1	3	23.78
			1	5	23.61
			3	0	23.55
16QAM	23017	699.7	3	2	23.60
			3	3	23.51
			6	0	22.65
			1	0	22.38
			1	3	22.53
			1	5	22.33
	23095	707.5	3	0	22.31
			3	2	22.29
			3	3	22.30
			6	0	21.38
			1	0	22.43
			1	3	22.63
	23173	715.3	1	5	22.47
			3	0	22.45
			3	2	22.46
			3	3	22.48
			6	0	21.33
			1	0	22.52
23017	699.7	1	3	22.73	
		1	5	22.57	
		3	0	22.59	
		3	2	22.61	
		3	3	22.55	
		6	0	21.50	

LTE Band 12(Bandwidth: 3MHz)

Channel Bandwidth: 3 MHz					
Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power [dBm]
			Size	Offset	
QPSK	23025	700.5	1	0	23.28
			1	7	23.30
			1	14	23.31
			8	0	22.26
			8	4	22.32
			8	7	22.25
	23095	707.5	15	0	22.21
			1	0	23.26
			1	7	23.28
			1	14	23.37
			8	0	22.32
			8	4	22.37
	23165	714.5	8	7	22.38
			8	0	22.35
			1	0	23.53
			1	7	23.55
			1	14	23.60
			8	0	22.57
16QAM	23025	700.5	8	4	22.62
			8	7	22.57
			15	0	22.48
			1	0	22.38
			1	7	22.34
			1	14	22.36
	23095	707.5	8	0	21.12
			8	4	21.17
			8	7	21.11
			15	0	21.15
			1	0	22.49
			1	7	22.47
	23165	714.5	1	14	22.53
			8	0	21.33
			8	4	21.43
			8	7	21.39
			15	0	21.29
			1	0	22.59
23025	700.5	1	7	22.59	
		1	14	22.63	
		8	0	21.50	
		8	4	21.57	
		8	7	21.50	
		15	0	21.37	

LTE Band 12(Bandwidth: 5MHz)

Channel Bandwidth: 5 MHz					
Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power [dBm]
			Size	Offset	
QPSK	23035	701.5	1	0	23.30
			1	12	23.66
			1	24	23.31
			12	0	22.26
			12	6	22.28
			12	13	22.21
	23095	707.5	25	0	22.25
			1	0	23.25
			1	12	23.56
			1	24	23.35
			12	0	22.24
			12	6	22.37
	23155	713.5	12	13	22.38
			25	0	22.39
			1	0	23.41
			1	12	23.85
			1	24	23.52
			12	0	22.46
16QAM	23035	701.5	12	6	22.54
			12	13	22.42
			25	0	22.47
			1	0	22.33
			1	12	22.60
			1	24	22.42
	23095	707.5	12	0	21.20
			12	6	21.24
			12	13	21.20
			25	0	21.24
			1	0	22.40
			1	12	22.75
	23155	713.5	1	24	22.48
			12	0	21.31
			12	6	21.43
			12	13	21.42
			25	0	21.38
			1	0	22.52
			1	12	22.86
			1	24	22.61
			12	0	21.47
			12	6	21.54
			12	13	21.39
			25	0	21.44

LTE Band 12(Bandwidth: 10MHz)

Channel Bandwidth: 10 MHz					
Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power [dBm]
			Size	Offset	
QPSK	23060	704	1	0	23.24
			1	24	23.42
			1	49	23.46
			25	0	22.38
			25	12	22.31
			25	25	22.40
	23095	707.5	50	0	22.39
			1	0	23.27
			1	24	23.45
			1	49	23.48
			25	0	22.33
			25	12	22.38
	23130	711	25	25	22.52
			50	0	22.42
			1	0	23.33
			1	24	23.56
			1	49	23.59
			25	0	22.35
16QAM	23060	704	25	12	22.45
			25	25	22.42
			50	0	22.37
			1	0	22.33
			1	24	22.56
			1	49	22.57
	23095	707.5	25	0	21.38
			25	12	21.30
			25	25	21.39
			50	0	21.38
			1	0	22.40
			1	24	22.64
	23130	711	1	49	22.56
			25	0	21.33
			25	12	21.30
			25	25	21.50
			50	0	21.40
			1	0	22.53
23130	711	1	24	22.69	
		1	49	22.66	
		25	0	21.30	
		25	12	21.41	
		25	25	21.35	
		50	0	21.32	

LTE Band 13(Bandwidth: 5MHz)

Channel Bandwidth: 5 MHz					
Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power [dBm]
			Size	Offset	
QPSK	23205	779.5	1	0	24.06
			1	12	24.27
			1	24	23.94
			12	0	22.95
			12	6	23.00
			12	13	22.96
	23230	782	25	0	22.96
			1	0	23.87
			1	12	24.15
			1	24	23.81
			12	0	22.76
			12	6	22.83
	23255	784.5	12	13	22.78
			25	0	22.79
			1	0	23.80
			1	12	24.03
			1	24	23.69
			12	0	22.71
16QAM	23205	779.5	12	6	22.75
			12	13	22.64
			25	0	22.68
			1	0	23.03
			1	12	23.29
			1	24	23.00
	23230	782	12	0	22.00
			12	6	22.03
			12	13	22.02
			25	0	21.93
			1	0	22.93
			1	12	23.19
	23255	784.5	1	24	22.86
			12	0	21.75
			12	6	21.83
			12	13	21.77
			25	0	21.72
			1	0	22.84
23205	779.5	1	12	23.17	
		1	24	22.78	
		12	0	21.79	
		12	6	21.80	
		12	13	21.69	
		25	0	21.64	

LTE Band 13(Bandwidth: 10MHz)

Channel Bandwidth: 10 MHz					
Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power [dBm]
			Size	Offset	
QPSK	23230	782	1	0	23.95
			1	24	24.00
			1	49	23.77
			25	0	22.84
			25	12	22.83
			25	25	22.75
			50	0	22.77
16QAM	23230	782	1	0	23.00
			1	24	23.13
			1	49	22.94
			25	0	21.83
			25	12	21.77
			25	25	21.73
			50	0	21.76

LTE Band 17(Bandwidth: 5MHz)

Channel Bandwidth: 5 MHz					
Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power [dBm]
			Size	Offset	
QPSK	23755	706.5	1	0	23.29
			1	12	23.73
			1	24	23.42
			12	0	22.35
			12	6	22.43
			12	13	22.46
	23790	710	25	0	22.40
			1	0	23.41
			1	12	23.94
			1	24	23.55
			12	0	22.39
			12	6	22.51
	23825	713.5	12	13	22.47
			25	0	22.43
			1	0	23.44
			1	12	23.92
			1	24	23.64
			12	0	22.55
16QAM	23755	706.5	12	6	22.61
			12	13	22.47
			25	0	22.50
			1	0	22.46
			1	12	22.84
			1	24	22.55
	23790	710	12	0	21.44
			12	6	21.54
			12	13	21.52
			25	0	21.42
			1	0	22.59
			1	12	22.95
	23825	713.5	1	24	22.61
			12	0	21.44
			12	6	21.54
			12	13	21.48
			25	0	21.43
			1	0	22.51
23755	706.5	1	12	22.86	
		1	24	22.66	
		12	0	21.58	
		12	6	21.63	
		12	13	21.48	
		25	0	21.46	

LTE Band 17(Bandwidth: 10MHz)

Channel Bandwidth: 10 MHz					
Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power [dBm]
			Size	Offset	
QPSK	23780	709	1	0	23.36
			1	24	23.60
			1	49	23.63
			25	0	22.40
			25	12	22.48
			25	25	22.49
	23790	710	50	0	22.44
			1	0	23.35
			1	24	23.60
			1	49	23.63
			25	0	22.40
			25	12	22.51
	23800	711	25	25	22.46
			50	0	22.43
			1	0	23.40
			1	24	23.66
			1	49	23.72
			25	0	22.42
16QAM	23780	709	25	12	22.53
			25	25	22.49
			50	0	22.44
			1	0	22.47
			1	24	22.77
			1	49	22.57
	23790	710	25	0	21.33
			25	12	21.44
			25	25	21.43
			50	0	21.43
			1	0	22.53
			1	24	22.74
	23800	711	1	49	22.66
			25	0	21.35
			25	12	21.46
			25	25	21.42
			50	0	21.41
			1	0	22.71
23780	709	1	24	22.86	
		1	49	22.78	
		25	0	21.42	
		25	12	21.50	
		25	25	21.44	
		50	0	21.43	

LTE Band 38 (Bandwidth: 5MHz)

Channel Bandwidth: 5 MHz					
Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power [dBm]
			Size	Offset	
QPSK	37775	2572.5	1	0	23.15
			1	12	23.40
			1	24	23.12
			12	0	22.11
			12	6	22.18
			12	13	22.10
	38000	2595	25	0	22.13
			1	0	23.05
			1	12	23.35
			1	24	23.03
			12	0	22.07
			12	6	22.14
	38225	2617.5	12	13	22.12
			25	0	22.13
			1	0	23.11
			1	12	23.39
			1	24	23.07
			12	0	22.03
16QAM	37775	2572.5	12	6	22.09
			12	13	22.07
			25	0	22.09
			1	0	22.08
			1	12	22.34
			1	24	22.05
	38000	2595	12	0	21.12
			12	6	21.17
			12	13	21.09
			25	0	21.13
			1	0	22.39
			1	12	22.67
	38225	2617.5	1	24	22.36
			12	0	21.12
			12	6	21.16
			12	13	21.13
			25	0	21.11
			1	0	22.00
37775	2572.5	1	12	22.22	
		1	24	21.95	
		12	0	21.02	
		12	6	21.12	
		12	13	21.07	
		25	0	21.04	

LTE Band 38 (Bandwidth: 10MHz)

Channel Bandwidth: 10 MHz					
Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power [dBm]
			Size	Offset	
QPSK	37800	2575	1	0	23.14
			1	24	23.27
			1	49	23.14
			25	0	22.17
			25	12	22.12
			25	25	22.20
	38000	2595	50	0	22.15
			1	0	23.12
			1	24	23.26
			1	49	23.09
			25	0	22.13
			25	12	22.14
	38200	2615	25	25	22.14
			50	0	22.13
			1	0	23.10
			1	24	23.28
			1	49	23.09
			25	0	22.08
16QAM	37800	2575	25	12	22.16
			25	25	22.20
			50	0	22.16
			1	0	22.30
			1	24	22.44
			1	49	22.31
	38000	2595	25	0	21.12
			25	12	21.10
			25	25	21.10
			50	0	21.18
			1	0	22.26
			1	24	22.42
	38200	2615	1	49	22.24
			25	0	21.09
			25	12	21.08
			25	25	21.07
			50	0	21.17
			1	0	22.21
			1	24	22.39
			1	49	22.16
			25	0	20.97
			25	12	21.08
			25	25	21.16
			50	0	21.15

LTE Band 38 (Bandwidth: 15MHz)

Channel Bandwidth: 15 MHz					
Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power [dBm]
			Size	Offset	
QPSK	37825	2577.5	1	0	23.05
			1	37	23.11
			1	74	23.04
			37	0	22.15
			37	18	22.16
			37	38	22.17
	38000	2595	75	0	22.19
			1	0	23.06
			1	37	23.15
			1	74	23.07
			37	0	22.13
			37	18	22.15
	38175	2612.5	37	38	22.16
			75	0	22.17
			1	0	23.07
			1	37	23.15
			1	74	23.03
			37	0	22.14
16QAM	37825	2577.5	37	18	22.19
			37	38	22.25
			75	0	22.20
			1	0	22.26
			1	37	22.33
			1	74	22.25
	38000	2595	37	0	21.13
			37	18	21.12
			37	38	21.16
			75	0	21.12
			1	0	22.30
			1	37	22.39
	38175	2612.5	1	74	22.28
			37	0	21.16
			37	18	21.18
			37	38	21.21
			75	0	21.11
			1	0	22.21
37825	2577.5	1	37	22.28	
		1	74	22.11	
		37	0	21.10	
		37	18	21.13	
		37	38	21.19	
		75	0	21.14	

LTE Band 38 (Bandwidth: 20MHz)

Channel Bandwidth: 20 MHz					
Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power [dBm]
			Size	Offset	
QPSK	37850	2580	1	0	22.95
			1	49	23.37
			1	99	22.98
			50	0	22.10
			50	25	22.11
			50	50	22.10
	38000	2595	100	0	22.09
			1	0	22.94
			1	49	23.32
			1	99	22.97
			50	0	22.07
			50	25	22.12
	38150	2610	50	50	22.15
			100	0	22.10
			1	0	22.86
			1	49	23.32
			1	99	22.87
			50	0	22.01
16QAM	37850	2580	50	25	22.12
			50	50	22.17
			100	0	22.08
			1	0	22.01
			1	49	22.40
			1	99	22.04
	38000	2595	50	0	21.07
			50	25	21.21
			50	50	21.07
			100	0	21.07
			1	0	22.17
			1	49	22.57
	38150	2610	1	99	22.25
			50	0	21.03
			50	25	21.11
			50	50	21.15
			100	0	21.07
			1	0	21.97
37850	2580	1	49	22.38	
		1	99	22.14	
		50	0	21.07	
		50	25	21.10	
		50	50	21.17	
		100	0	21.07	

LTE Band 41 (Bandwidth: 5MHz)

Channel Bandwidth: 5 MHz					
Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power [dBm]
			Size	Offset	
QPSK	40265	2557.5	1	0	22.94
			1	12	23.25
			1	24	22.99
			12	0	22.01
			12	6	22.06
			12	13	22.01
	40740	2605	25	0	22.03
			1	0	23.12
			1	12	23.40
			1	24	23.12
			12	0	22.06
			12	6	22.12
	41215	2652.5	12	13	22.10
			25	0	22.14
			1	0	22.97
			1	12	23.22
			1	24	22.94
			12	0	21.93
16QAM	40265	2557.5	12	6	21.97
			12	13	21.91
			25	0	21.96
			1	0	22.25
			1	12	22.54
			1	24	22.32
	40740	2605	12	0	21.04
			12	6	21.08
			12	13	21.05
			25	0	21.01
			1	0	22.16
			1	12	22.42
	41215	2652.5	1	24	22.16
			12	0	21.02
			12	6	21.10
			12	13	21.08
			25	0	21.07
			1	0	21.88
			1	12	22.08
			1	24	21.85
			12	0	20.94
			12	6	20.95
			12	13	20.89
			25	0	20.91

LTE Band 41 (Bandwidth: 10MHz)

Channel Bandwidth: 10 MHz					
Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power [dBm]
			Size	Offset	
QPSK	40290	2560	1	0	23.04
			1	24	23.22
			1	49	23.06
			25	0	22.12
			25	12	22.10
			25	25	22.12
	40740	2605	50	0	22.09
			1	0	23.10
			1	24	23.26
			1	49	23.07
			25	0	22.13
			25	12	22.13
	41190	2650	25	25	22.16
			50	0	22.18
			1	0	22.97
			1	24	23.12
			1	49	22.96
			25	0	22.04
16QAM	40290	2560	25	12	22.04
			25	25	22.04
			50	0	22.04
			1	0	22.17
			1	24	22.38
			1	49	22.23
	40740	2605	25	0	21.06
			25	12	21.00
			25	25	21.08
			50	0	21.12
			1	0	22.25
			1	24	22.41
	41190	2650	1	49	22.25
			25	0	21.06
			25	12	21.07
			25	25	21.13
			50	0	21.15
			1	0	22.15
			1	24	22.31
			1	49	22.10
			25	0	21.04
			25	12	20.97
			25	25	21.01
			50	0	20.99

LTE Band 41 (Bandwidth: 15MHz)

Channel Bandwidth: 15 MHz					
Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power [dBm]
			Size	Offset	
QPSK	40315	2562.5	1	0	22.96
			1	37	23.16
			1	74	23.03
			37	0	22.13
			37	18	22.13
			37	38	22.12
	75	0	22.17		
	40740	2605	1	0	23.01
			1	37	23.13
			1	74	23.01
			37	0	22.09
			37	18	22.18
			37	38	22.20
	75	0	22.21		
	41165	2647.5	1	0	22.92
			1	37	23.04
			1	74	22.88
			37	0	22.06
37			18	22.07	
37			38	22.05	
75	0	22.08			
16QAM	40315	2562.5	1	0	22.19
			1	37	22.39
			1	74	22.29
			37	0	21.15
			37	18	21.17
			37	38	21.17
	75	0	21.12		
	40740	2605	1	0	22.22
			1	37	22.35
			1	74	22.18
			37	0	21.09
			37	18	21.13
			37	38	21.16
	75	0	21.09		
	41165	2647.5	1	0	22.11
			1	37	22.19
			1	74	22.04
			37	0	21.04
37			18	21.01	
37			38	20.99	
75	0	20.99			

LTE Band 41 (Bandwidth: 20MHz)

Channel Bandwidth: 20 MHz					
Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power [dBm]
			Size	Offset	
QPSK	40340	2565	1	0	22.86
			1	49	23.31
			1	99	22.95
			50	0	22.05
			50	25	22.12
			50	50	22.07
	100	0	22.09		
	40740	2605	1	0	22.96
			1	49	23.36
			1	99	22.95
			50	0	22.05
			50	25	22.16
			50	50	22.23
	100	0	22.10		
	41140	2645	1	0	22.89
			1	49	23.23
			1	99	22.80
			50	0	22.07
50			25	22.07	
50			50	22.00	
100	0	22.02			
16QAM	40340	2565	1	0	22.11
			1	49	22.53
			1	99	22.19
			50	0	21.08
			50	25	21.08
			50	50	21.05
	100	0	21.07		
	40740	2605	1	0	22.02
			1	49	22.39
			1	99	22.17
			50	0	21.03
			50	25	21.15
			50	50	21.20
	100	0	21.07		
	41140	2645	1	0	21.91
			1	49	22.27
			1	99	21.82
			50	0	21.05
50			25	21.03	
50			50	20.98	
100	0	20.99			

3.5. Support Equipment List

Table 5 Support Equipment List

Name	Model No	S/N	Manufacturer
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3.6. Test Conditions

Date of test : Jun.20, 2019 - Jul.23, 2019

Date of EUT Receive : Jun.20, 2019

Temperature: -30~50 °C

Relative Humidity: 41~48%

3.7. Special Accessories

Not available for this EUT intended for grant.

3.8. Equipment Modifications

Not available for this EUT intended for grant.

4. TEST EQUIPMENT USED

Table 6 Test Equipment

No.	Equipment	Manufacturer	Model No.	Last Cal.	Cal. Interval
SB8501/09	EMI Test Receiver	Rohde & Schwarz	ESU40	Mar.11, 2019	1 Year
SB5472/02	Bilog Antenna	Schwarzbeck	VULB9163	Jun.01, 2019	1 Year
SB3435	Horn Antenna	Rohde & Schwarz	HF906	Jan.01, 2018	1 Year
SB8501/11	Horn Antenna	ETS-Lindgren	3160-09	Jan.21,2017	3 Years
SB8501/17	Preamplifier	Rohde & Schwarz	SCU-18	Feb.20, 2019	1 Year
SB8501/16	Preamplifier	Rohde & Schwarz	SCU-26	Feb.18, 2019	1 Year
SB8501/14	Preamplifier	Rohde & Schwarz	SCU-03	Feb.20, 2019	1 Year
SB8501/02	Communication Test Unit	Rohde & Schwarz	CMU200	Nov.26, 2018	1 Year
SB12724/08	Wideband Radio communication Tester	Rohde & Schwarz	CMW500	May.29, 2019	1 Year
SB12724/06	Wideband Radio communication Tester	Rohde & Schwarz	CMW500	Sep.01, 2018	1 Year
SB9721/02	Signal Analyzer	Agilent	N9020A	Nov.26, 2018	1 Year
SB7941/02	Signal Analyzer	Rohde & Schwarz	FSU26	May.29, 2019	1 Year
SB9721/07	DC Power Supply	Agilent	66319D	---	---
SB11818	Temperature & Humidity Test chamber	Espec	EH-010U	Mar.25, 2019	1 Year
--	Test Software	Tonscend	JS1120-4 GSM	--	--
--	Test Software	Tonscend	JS-1120-3 WCDMA	--	--
--	Test Software	Tonscend	JS1120-1 LTE	--	--
--	Radiated Test Software	Rohde & Schwarz	EMC 32 8.50.0	--	--

5. TEST RESULTS

5.1. RF Power Output

5.1.1. Test Standard

FCC: CFR Part 2.1046, CFR Part 22.913, CFR Part 24.232 CFR Part 27

5.1.2. Test Limit

FCC 22.913 (a) Effective radiated power limits.

The effective radiated power (ERP) of mobile transmitters must not exceed 7 Watts.

FCC 24.232 (b)(c) Power limits.

(b) Mobile/portable stations are limited to 2 Watts effective isotropic radiated power (EIRP). (c) Peak transmit power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms equivalent voltage. The measurement results shall be properly adjusted for any limitations, such as detector response times, limited resolution bandwidth capability when compared to the emission bandwidth, sensitivity, etc., so as to obtain a true peak measurement over the full bandwidth of the channel.

27.50 (b)(10) Portable stations (hand-held de-vices) transmitting in the 746–757 MHz, 776–788 MHz, and 805–806 MHz bands are limited to 3 watts ERP.

27.50 (d)(4) The following power and antenna height requirements apply to stations transmitting in the 1710–1755 MHz and 2110–2155 MHz bands: Fixed, mobile, and portable (hand-held) stations operating in the 1710–1755 MHz band are limited to 1 watt EIRP.

27.50 (c) The following power and antenna height requirements apply to stations transmitting in the 698–746 MHz band (10) Portable stations (hand-held de-vices) are limited to 3 watts ERP.

27.50 (h) (2) Mobile and other user stations. Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.

5.1.3. Test Procedure

ANSI C63.26:2015

KDB 971168 Section 5.6

$EIRP \text{ (dBm)} = ERP \text{ (dBm)} + 2.15 \text{ (dB)}$

$ERP/EIRP = P_{Meas} + GT - LC$

where: ERP/EIRP = effective or equivalent radiated power, respectively (expressed in the same

units as P_{Meas} , typically dBW or dBm);

P_{Meas} = measured transmitter output power or PSD, in dBm or dBW;

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

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

For devices utilizing multiple antennas, KDB 662911 provides guidance for determining the effective array transmit antenna gain term to be used in the above equation.

EUT includes different power levels for head use configuration and body use

configuration and the below tables contain the highest of all configurations average conducted and ERP/EIRP output powers as follows:

5.1.4. Test Data

GSM MODES:

Modulation	Channel	Frequency (MHz)	Conducted Average Power [dBm]	Antenna Gain [dBi]	ERP [dBm]	ERP Limit [dBm]	Verdict
GSM850(GMSK)	128	824.2	32.97	-0.39	30.43	38.5	Pass
	190	836.6	32.99	-0.39	30.45	38.5	Pass
	251	848.8	32.51	-0.39	29.97	38.5	Pass
EGPRS850(8PSK)	128	824.2	28.57	-0.39	26.03	38.5	Pass
	190	836.6	28.49	-0.39	25.95	38.5	Pass
	251	848.8	28.84	-0.39	26.3	38.5	Pass

Modulation	Channel	Frequency (MHz)	Conducted Average Power [dBm]	Antenna Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	Verdict
GSM1900(GMSK)	512	1850.2	30.71	0.46	31.17	33	Pass
	661	1880	30.51	0.46	30.97	33	Pass
	810	1909.8	30.24	0.46	30.7	33	Pass
EGPRS1900(8PSK)	512	1850.2	26.77	0.46	27.23	33	Pass
	661	1880	26.83	0.46	27.29	33	Pass
	810	1909.8	26.74	0.46	27.2	33	Pass

WCDMA MODES:

Modulation	Channel	Frequency (MHz)	Conducted Average Power [dBm]	Antenna Gain [dBi]	ERP [dBm]	ERP Limit [dBm]	Verdict
WCDMA 850(QPSK)	4,132	826.4	23.50	-0.39	20.96	38.5	Pass
	4,182	836.4	23.20	-0.39	20.66	38.5	Pass
	4,233	846.6	23.10	-0.39	20.56	38.5	Pass

Modulation	Channel	Frequency (MHz)	Conducted Average Power [dBm]	Antenna Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	Verdict
WCDMA1900(QPSK)	9262	1852.4	23.98	0.46	24.44	33	Pass
	9400	1880.0	24.18	0.46	24.64	33	Pass
	9538	1907.6	24.25	0.46	24.71	33	Pass

LTE Band 2(Bandwidth: 1.4MHz)

Channel Bandwidth: 1.4 MHz										
Modulation	Channel	Frequency (MHz)	RB Configuration		Conducted Average Power [dBm]	Antenna Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	Verdict	
			Size	Offset						
QPSK	18607	1850.7	1	0	23.61	0.46	24.07	33	Pass	
			1	3	23.76	0.46	24.22	33	Pass	
			1	5	23.59	0.46	24.05	33	Pass	
			3	0	23.65	0.46	24.11	33	Pass	
			3	2	23.69	0.46	24.15	33	Pass	
			3	3	23.66	0.46	24.12	33	Pass	
	18900	1880	1	0	23.30	0.46	23.76	33	Pass	
			1	3	23.39	0.46	23.85	33	Pass	
			1	5	23.30	0.46	23.76	33	Pass	
			3	0	23.39	0.46	23.85	33	Pass	
			3	2	23.38	0.46	23.84	33	Pass	
			3	3	23.34	0.46	23.8	33	Pass	
	19193	1909.3	6	0	22.66	0.46	23.12	33	Pass	
			1	0	23.11	0.46	23.57	33	Pass	
			1	3	23.23	0.46	23.69	33	Pass	
			1	5	23.09	0.46	23.55	33	Pass	
			3	0	23.14	0.46	23.6	33	Pass	
			3	2	22.60	0.46	23.06	33	Pass	
	16QAM	18607	1850.7	3	3	22.59	0.46	23.05	33	Pass
				6	0	21.57	0.46	22.03	33	Pass
				1	0	22.79	0.46	23.25	33	Pass
				1	3	22.97	0.46	23.43	33	Pass
				1	5	22.81	0.46	23.27	33	Pass
				3	0	22.74	0.46	23.2	33	Pass
18900		1880	3	2	22.77	0.46	23.23	33	Pass	
			3	3	22.76	0.46	23.22	33	Pass	
			6	0	21.66	0.46	22.12	33	Pass	
			1	0	22.56	0.46	23.02	33	Pass	
			1	3	22.77	0.46	23.23	33	Pass	
			1	5	22.57	0.46	23.03	33	Pass	
19193		1909.3	3	0	22.30	0.46	22.76	33	Pass	
			3	2	22.32	0.46	22.78	33	Pass	
			3	3	22.34	0.46	22.8	33	Pass	
			6	0	21.38	0.46	21.84	33	Pass	
			1	0	22.27	0.46	22.73	33	Pass	
			1	3	22.47	0.46	22.93	33	Pass	
19193		1909.3	1	5	22.28	0.46	22.74	33	Pass	
			3	0	22.17	0.46	22.63	33	Pass	
			3	2	21.61	0.46	22.07	33	Pass	
			3	3	21.61	0.46	22.07	33	Pass	
			6	0	20.71	0.46	21.17	33	Pass	

LTE Band 2(Bandwidth:3MHz)

Channel Bandwidth: 3 MHz										
Modulation	Channel	Frequency (MHz)	RB Configuration		Conducted Average Power [dBm]	Antenna Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	Verdict	
			Size	Offset						
QPSK	18615	1851.5	1	0	22.93	0.46	23.39	33	Pass	
			1	7	22.92	0.46	23.38	33	Pass	
			1	14	22.91	0.46	23.37	33	Pass	
			8	0	21.97	0.46	22.43	33	Pass	
			8	4	21.95	0.46	22.41	33	Pass	
			8	7	21.92	0.46	22.38	33	Pass	
			15	0	21.90	0.46	22.36	33	Pass	
	18900	1880	1	0	22.77	0.46	23.23	33	Pass	
			1	7	22.72	0.46	23.18	33	Pass	
			1	14	22.74	0.46	23.2	33	Pass	
			8	0	21.76	0.46	22.22	33	Pass	
			8	4	21.83	0.46	22.29	33	Pass	
			8	7	21.76	0.46	22.22	33	Pass	
			15	0	21.72	0.46	22.18	33	Pass	
	19185	1908.5	1	0	22.57	0.46	23.03	33	Pass	
			1	7	22.60	0.46	23.06	33	Pass	
			1	14	22.57	0.46	23.03	33	Pass	
			8	0	21.53	0.46	21.99	33	Pass	
			8	4	21.60	0.46	22.06	33	Pass	
			8	7	21.55	0.46	22.01	33	Pass	
			15	0	21.54	0.46	22	33	Pass	
	16QAM	18615	1851.5	1	0	22.17	0.46	22.63	33	Pass
				1	7	22.17	0.46	22.63	33	Pass
				1	14	22.13	0.46	22.59	33	Pass
8				0	21.07	0.46	21.53	33	Pass	
8				4	21.08	0.46	21.54	33	Pass	
8				7	21.00	0.46	21.46	33	Pass	
15				0	20.90	0.46	21.36	33	Pass	
18900		1880	1	0	22.04	0.46	22.5	33	Pass	
			1	7	22.05	0.46	22.51	33	Pass	
			1	14	22.11	0.46	22.57	33	Pass	
			8	0	20.80	0.46	21.26	33	Pass	
			8	4	20.82	0.46	21.28	33	Pass	
			8	7	20.78	0.46	21.24	33	Pass	
			15	0	20.76	0.46	21.22	33	Pass	
19185		1908.5	1	0	21.78	0.46	22.24	33	Pass	
			1	7	21.77	0.46	22.23	33	Pass	
			1	14	21.76	0.46	22.22	33	Pass	
			8	0	20.56	0.46	21.02	33	Pass	
			8	4	20.59	0.46	21.05	33	Pass	
			8	7	20.56	0.46	21.02	33	Pass	
			15	0	20.58	0.46	21.04	33	Pass	

LTE Band 2 (Bandwidth:5MHz)

Channel Bandwidth: 5 MHz										
Modulation	Channel	Frequency (MHz)	RB Configuration		Conducted Average Power [dBm]	Antenna Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	Verdict	
			Size	Offset						
QPSK	18625	1852.5	1	0	22.96	0.46	23.42	33	Pass	
			1	12	23.22	0.46	23.68	33	Pass	
			1	24	22.93	0.46	23.39	33	Pass	
			12	0	21.89	0.46	22.35	33	Pass	
			12	6	21.96	0.46	22.42	33	Pass	
			12	13	21.93	0.46	22.39	33	Pass	
	18900	1880	25	0	21.95	0.46	22.41	33	Pass	
			1	0	22.77	0.46	23.23	33	Pass	
			1	12	23.10	0.46	23.56	33	Pass	
			1	24	22.76	0.46	23.22	33	Pass	
			12	0	21.82	0.46	22.28	33	Pass	
			12	6	21.81	0.46	22.27	33	Pass	
	19175	1907.5	12	13	21.77	0.46	22.23	33	Pass	
			12	0	21.80	0.46	22.26	33	Pass	
			1	0	22.58	0.46	23.04	33	Pass	
			1	12	22.85	0.46	23.31	33	Pass	
			1	24	22.60	0.46	23.06	33	Pass	
			12	0	21.62	0.46	22.08	33	Pass	
	16QAM	18625	1852.5	12	6	21.63	0.46	22.09	33	Pass
				12	13	21.52	0.46	21.98	33	Pass
				12	0	21.62	0.46	22.08	33	Pass
25				0	21.62	0.46	22.08	33	Pass	
1				0	22.17	0.46	22.63	33	Pass	
1				12	22.41	0.46	22.87	33	Pass	
18900		1880	1	24	22.16	0.46	22.62	33	Pass	
			12	0	20.99	0.46	21.45	33	Pass	
			12	6	21.09	0.46	21.55	33	Pass	
			12	13	21.14	0.46	21.6	33	Pass	
			25	0	21.00	0.46	21.46	33	Pass	
			1	0	21.93	0.46	22.39	33	Pass	
19175		1907.5	1	12	22.22	0.46	22.68	33	Pass	
			1	24	21.95	0.46	22.41	33	Pass	
			12	0	20.98	0.46	21.44	33	Pass	
			12	6	21.00	0.46	21.46	33	Pass	
			12	13	20.91	0.46	21.37	33	Pass	
			25	0	20.87	0.46	21.33	33	Pass	
18625		1852.5	1	0	21.69	0.46	22.15	33	Pass	
			1	12	22.00	0.46	22.46	33	Pass	
			1	24	21.67	0.46	22.13	33	Pass	
	12		0	20.59	0.46	21.05	33	Pass		
	12		6	20.56	0.46	21.02	33	Pass		
	12		13	20.56	0.46	21.02	33	Pass		
18900	1880	25	0	20.62	0.46	21.08	33	Pass		

LTE Band 2 (Bandwidth:10MHz)

Channel Bandwidth: 10 MHz										
Modulation	Channel	Frequency (MHz)	RB Configuration		Conducted Average Power [dBm]	Antenna Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	Verdict	
			Size	Offset						
QPSK	18650	1855	1	0	22.95	0.46	23.41	33	Pass	
			1	24	23.10	0.46	23.56	33	Pass	
			1	49	22.85	0.46	23.31	33	Pass	
			25	0	21.93	0.46	22.39	33	Pass	
			25	12	22.00	0.46	22.46	33	Pass	
			25	25	22.10	0.46	22.56	33	Pass	
	18900	1880	1	0	22.82	0.46	23.28	33	Pass	
			1	24	22.93	0.46	23.39	33	Pass	
			1	49	22.72	0.46	23.18	33	Pass	
			25	0	21.94	0.46	22.4	33	Pass	
			25	12	21.85	0.46	22.31	33	Pass	
			25	25	21.86	0.46	22.32	33	Pass	
	19150	1905	50	0	21.96	0.46	22.42	33	Pass	
			1	0	22.61	0.46	23.07	33	Pass	
			1	24	22.73	0.46	23.19	33	Pass	
			1	49	22.50	0.46	22.96	33	Pass	
			25	0	21.62	0.46	22.08	33	Pass	
			25	12	21.63	0.46	22.09	33	Pass	
	16QAM	18650	1855	25	25	21.56	0.46	22.02	33	Pass
				50	0	21.69	0.46	22.15	33	Pass
				1	0	22.23	0.46	22.69	33	Pass
1				24	22.38	0.46	22.84	33	Pass	
1				49	22.13	0.46	22.59	33	Pass	
25				0	21.01	0.46	21.47	33	Pass	
18900		1880	25	12	21.05	0.46	21.51	33	Pass	
			25	25	21.16	0.46	21.62	33	Pass	
			50	0	21.03	0.46	21.49	33	Pass	
			1	0	22.10	0.46	22.56	33	Pass	
			1	24	22.27	0.46	22.73	33	Pass	
			1	49	21.92	0.46	22.38	33	Pass	
19150		1905	25	0	20.98	0.46	21.44	33	Pass	
			25	12	20.89	0.46	21.35	33	Pass	
			25	25	20.95	0.46	21.41	33	Pass	
			50	0	20.81	0.46	21.27	33	Pass	
			1	0	21.79	0.46	22.25	33	Pass	
			1	24	21.89	0.46	22.35	33	Pass	
19150		1905	1	49	21.49	0.46	21.95	33	Pass	
			25	0	20.82	0.46	21.28	33	Pass	
			25	12	20.51	0.46	20.97	33	Pass	
	25		25	20.56	0.46	21.02	33	Pass		
	50		0	20.62	0.46	21.08	33	Pass		

LTE Band 2 (Bandwidth: 15MHz)

Channel Bandwidth: 15 MHz									
Modulation	Channel	Frequency (MHz)	RB Configuration		Conducted Average Power [dBm]	Antenna Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	Verdict
			Size	Offset					
QPSK	18675	1857.5	1	0	22.93	0.46	23.39	33	Pass
			1	37	22.97	0.46	23.43	33	Pass
			1	74	22.71	0.46	23.17	33	Pass
			37	0	21.92	0.46	22.38	33	Pass
			37	18	21.97	0.46	22.43	33	Pass
			37	38	22.01	0.46	22.47	33	Pass
			75	0	21.99	0.46	22.45	33	Pass
	18900	1880	1	0	22.81	0.46	23.27	33	Pass
			1	37	22.83	0.46	23.29	33	Pass
			1	74	22.68	0.46	23.14	33	Pass
			37	0	22.00	0.46	22.46	33	Pass
			37	18	21.91	0.46	22.37	33	Pass
			37	38	21.87	0.46	22.33	33	Pass
			75	0	21.98	0.46	22.44	33	Pass
	19125	1902.5	1	0	22.64	0.46	23.1	33	Pass
			1	37	22.65	0.46	23.11	33	Pass
			1	74	22.55	0.46	23.01	33	Pass
			37	0	21.86	0.46	22.32	33	Pass
			37	18	21.76	0.46	22.22	33	Pass
			37	38	21.66	0.46	22.12	33	Pass
			75	0	21.78	0.46	22.24	33	Pass
16QAM	18675	1857.5	1	0	22.18	0.46	22.64	33	Pass
			1	37	22.23	0.46	22.69	33	Pass
			1	74	21.94	0.46	22.4	33	Pass
			37	0	20.95	0.46	21.41	33	Pass
			37	18	21.02	0.46	21.48	33	Pass
			37	38	21.06	0.46	21.52	33	Pass
			75	0	21.00	0.46	21.46	33	Pass
	18900	1880	1	0	21.96	0.46	22.42	33	Pass
			1	37	22.06	0.46	22.52	33	Pass
			1	74	21.95	0.46	22.41	33	Pass
			37	0	21.00	0.46	21.46	33	Pass
			37	18	20.97	0.46	21.43	33	Pass
			37	38	20.95	0.46	21.41	33	Pass
			75	0	20.97	0.46	21.43	33	Pass
	19125	1902.5	1	0	21.85	0.46	22.31	33	Pass
			1	37	21.79	0.46	22.25	33	Pass
			1	74	21.75	0.46	22.21	33	Pass
			37	0	20.86	0.46	21.32	33	Pass
			37	18	20.77	0.46	21.23	33	Pass
			37	38	20.65	0.46	21.11	33	Pass
			75	0	20.79	0.46	21.25	33	Pass

LTE Band 2 (Bandwidth:20MHz)

Channel Bandwidth: 20 MHz									
Modulation	Channel	Frequency (MHz)	RB Configuration		Conducted Average Power [dBm]	Antenna Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	Verdict
			Size	Offset					
QPSK	18700	1860	1	0	22.88	0.46	23.34	33	Pass
			1	49	23.18	0.46	23.64	33	Pass
			1	99	22.69	0.46	23.15	33	Pass
			50	0	21.73	0.46	22.19	33	Pass
			50	25	21.96	0.46	22.42	33	Pass
			50	50	21.73	0.46	22.19	33	Pass
			100	0	21.74	0.46	22.2	33	Pass
	18900	1880	1	0	22.74	0.46	23.2	33	Pass
			1	49	23.02	0.46	23.48	33	Pass
			1	99	22.53	0.46	22.99	33	Pass
			50	0	21.99	0.46	22.45	33	Pass
			50	25	21.86	0.46	22.32	33	Pass
			50	50	21.81	0.46	22.27	33	Pass
			100	0	21.95	0.46	22.41	33	Pass
	19100	1900	1	0	22.41	0.46	22.87	33	Pass
			1	49	22.71	0.46	23.17	33	Pass
			1	99	22.26	0.46	22.72	33	Pass
			50	0	21.59	0.46	22.05	33	Pass
			50	25	21.67	0.46	22.13	33	Pass
			50	50	21.42	0.46	21.88	33	Pass
			100	0	21.56	0.46	22.02	33	Pass
16QAM	18700	1860	1	0	22.02	0.46	22.48	33	Pass
			1	49	22.26	0.46	22.72	33	Pass
			1	99	21.75	0.46	22.21	33	Pass
			50	0	20.79	0.46	21.25	33	Pass
			50	25	21.00	0.46	21.46	33	Pass
			50	50	20.80	0.46	21.26	33	Pass
			100	0	20.79	0.46	21.25	33	Pass
	18900	1880	1	0	21.94	0.46	22.4	33	Pass
			1	49	22.29	0.46	22.75	33	Pass
			1	99	21.88	0.46	22.34	33	Pass
			50	0	21.08	0.46	21.54	33	Pass
			50	25	20.85	0.46	21.31	33	Pass
			50	50	20.93	0.46	21.39	33	Pass
			100	0	20.99	0.46	21.45	33	Pass
	19100	1900	1	0	21.72	0.46	22.18	33	Pass
			1	49	21.93	0.46	22.39	33	Pass
			1	99	21.45	0.46	21.91	33	Pass
			50	0	20.77	0.46	21.23	33	Pass
			50	25	20.73	0.46	21.19	33	Pass
			50	50	20.44	0.46	20.9	33	Pass
			100	0	20.61	0.46	21.07	33	Pass

LTE Band 4 (Bandwidth: 1.4MHz)

Channel Bandwidth: 1.4 MHz									
Modulation	Channel	Frequency (MHz)	RB Configuration		Conducted Average Power [dBm]	Antenna Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	Verdict
			Size	Offset					
QPSK	131979	1710.7	1	0	22.63	0.45	23.08	30	Pass
			1	3	22.72	0.45	23.17	30	Pass
			1	5	22.65	0.45	23.1	30	Pass
			3	0	22.71	0.45	23.16	30	Pass
			3	2	22.69	0.45	23.14	30	Pass
			3	3	22.72	0.45	23.17	30	Pass
	132322	1745	1	0	22.69	0.45	23.14	30	Pass
			1	3	22.75	0.45	23.2	30	Pass
			1	5	22.67	0.45	23.12	30	Pass
			3	0	22.72	0.45	23.17	30	Pass
			3	2	22.71	0.45	23.16	30	Pass
			3	3	22.74	0.45	23.19	30	Pass
	132665	1779.3	6	0	21.85	0.45	22.3	30	Pass
			1	0	22.68	0.45	23.13	30	Pass
			1	3	22.80	0.45	23.25	30	Pass
			1	5	22.65	0.45	23.1	30	Pass
			3	0	22.72	0.45	23.17	30	Pass
			3	2	22.65	0.45	23.1	30	Pass
16QAM	131979	1710.7	3	3	22.68	0.45	23.13	30	Pass
			6	0	21.83	0.45	22.28	30	Pass
			1	0	21.94	0.45	22.39	30	Pass
			1	3	22.08	0.45	22.53	30	Pass
			1	5	21.93	0.45	22.38	30	Pass
			3	0	21.61	0.45	22.06	30	Pass
	132322	1745	3	2	21.66	0.45	22.11	30	Pass
			3	3	21.64	0.45	22.09	30	Pass
			6	0	20.57	0.45	21.02	30	Pass
			1	0	21.87	0.45	22.32	30	Pass
			1	3	22.04	0.45	22.49	30	Pass
			1	5	21.86	0.45	22.31	30	Pass
	132665	1779.3	3	0	21.80	0.45	22.25	30	Pass
			3	2	21.80	0.45	22.25	30	Pass
			3	3	21.81	0.45	22.26	30	Pass
			6	0	20.87	0.45	21.32	30	Pass
			1	0	21.83	0.45	22.28	30	Pass
			1	3	21.98	0.45	22.43	30	Pass
132665	1779.3	1	5	21.85	0.45	22.3	30	Pass	
		3	0	21.83	0.45	22.28	30	Pass	
		3	2	21.81	0.45	22.26	30	Pass	
		3	3	21.78	0.45	22.23	30	Pass	
		6	0	20.64	0.45	21.09	30	Pass	

LTE Band 4 (Bandwidth: 3MHz)

Channel Bandwidth: 3 MHz									
Modulation	Channel	Frequency (MHz)	RB Configuration		Conducted Average Power [dBm]	Antenna Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	Verdict
			Size	Offset					
QPSK	131987	1711.5	1	0	22.72	0.45	23.17	30	Pass
			1	7	22.75	0.45	23.2	30	Pass
			1	14	22.80	0.45	23.25	30	Pass
			8	0	21.74	0.45	22.19	30	Pass
			8	4	21.78	0.45	22.23	30	Pass
			8	7	21.78	0.45	22.23	30	Pass
			15	0	21.69	0.45	22.14	30	Pass
	132322	1745	1	0	22.82	0.45	23.27	30	Pass
			1	7	22.74	0.45	23.19	30	Pass
			1	14	22.77	0.45	23.22	30	Pass
			8	0	21.88	0.45	22.33	30	Pass
			8	4	21.92	0.45	22.37	30	Pass
			8	7	21.84	0.45	22.29	30	Pass
			15	0	21.82	0.45	22.27	30	Pass
	132657	1778.5	1	0	22.73	0.45	23.18	30	Pass
			1	7	22.70	0.45	23.15	30	Pass
			1	14	22.71	0.45	23.16	30	Pass
			8	0	21.86	0.45	22.31	30	Pass
			8	4	21.89	0.45	22.34	30	Pass
			8	7	21.81	0.45	22.26	30	Pass
			15	0	21.82	0.45	22.27	30	Pass
16QAM	131987	1711.5	1	0	22.00	0.45	22.45	30	Pass
			1	7	22.06	0.45	22.51	30	Pass
			1	14	22.10	0.45	22.55	30	Pass
			8	0	20.68	0.45	21.13	30	Pass
			8	4	20.72	0.45	21.17	30	Pass
			8	7	20.69	0.45	21.14	30	Pass
			15	0	20.66	0.45	21.11	30	Pass
	132322	1745	1	0	22.00	0.45	22.45	30	Pass
			1	7	21.98	0.45	22.43	30	Pass
			1	14	21.93	0.45	22.38	30	Pass
			8	0	20.73	0.45	21.18	30	Pass
			8	4	20.79	0.45	21.24	30	Pass
			8	7	20.71	0.45	21.16	30	Pass
			15	0	20.75	0.45	21.2	30	Pass
	132657	1778.5	1	0	21.93	0.45	22.38	30	Pass
			1	7	21.89	0.45	22.34	30	Pass
			1	14	21.91	0.45	22.36	30	Pass
			8	0	20.85	0.45	21.3	30	Pass
			8	4	20.85	0.45	21.3	30	Pass
			8	7	20.78	0.45	21.23	30	Pass
			15	0	20.72	0.45	21.17	30	Pass

LTE Band 4 (Bandwidth: 5MHz)

Channel Bandwidth: 5 MHz									
Modulation	Channel	Frequency (MHz)	RB Configuration		Conducted Average Power [dBm]	Antenna Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	Verdict
			Size	Offset					
QPSK	131997	1712.5	1	0	22.67	0.45	23.12	30	Pass
			1	12	23.10	0.45	23.55	30	Pass
			1	24	22.79	0.45	23.24	30	Pass
			12	0	21.74	0.45	22.19	30	Pass
			12	6	21.77	0.45	22.22	30	Pass
			12	13	21.74	0.45	22.19	30	Pass
			25	0	21.76	0.45	22.21	30	Pass
	132322	1745	1	0	22.79	0.45	23.24	30	Pass
			1	12	23.11	0.45	23.56	30	Pass
			1	24	22.83	0.45	23.28	30	Pass
			12	0	21.81	0.45	22.26	30	Pass
			12	6	21.83	0.45	22.28	30	Pass
			12	13	21.82	0.45	22.27	30	Pass
			25	0	21.80	0.45	22.25	30	Pass
	132647	1777.5	1	0	22.71	0.45	23.16	30	Pass
			1	12	23.07	0.45	23.52	30	Pass
			1	24	22.67	0.45	23.12	30	Pass
			12	0	21.79	0.45	22.24	30	Pass
			12	6	21.85	0.45	22.3	30	Pass
			12	13	21.79	0.45	22.24	30	Pass
			25	0	21.80	0.45	22.25	30	Pass
16QAM	131997	1712.5	1	0	21.82	0.45	22.27	30	Pass
			1	12	22.22	0.45	22.67	30	Pass
			1	24	21.94	0.45	22.39	30	Pass
			12	0	20.78	0.45	21.23	30	Pass
			12	6	20.84	0.45	21.29	30	Pass
			12	13	20.84	0.45	21.29	30	Pass
			25	0	20.73	0.45	21.18	30	Pass
	132322	1745	1	0	21.92	0.45	22.37	30	Pass
			1	12	22.19	0.45	22.64	30	Pass
			1	24	21.93	0.45	22.38	30	Pass
			12	0	20.75	0.45	21.2	30	Pass
			12	6	20.79	0.45	21.24	30	Pass
			12	13	20.79	0.45	21.24	30	Pass
			25	0	20.81	0.45	21.26	30	Pass
	132647	1777.5	1	0	21.88	0.45	22.33	30	Pass
			1	12	22.19	0.45	22.64	30	Pass
			1	24	21.90	0.45	22.35	30	Pass
			12	0	20.81	0.45	21.26	30	Pass
			12	6	20.83	0.45	21.28	30	Pass
			12	13	20.80	0.45	21.25	30	Pass
			25	0	20.76	0.45	21.21	30	Pass

LTE Band 4 (Bandwidth: 10MHz)

Channel Bandwidth: 10 MHz									
Modulation	Channel	Frequency (MHz)	RB Configuration		Conducted Average Power [dBm]	Antenna Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	Verdict
			Size	Offset					
QPSK	132022	1715	1	0	23.02	0.45	23.47	30	Pass
			1	24	23.24	0.45	23.69	30	Pass
			1	49	23.12	0.45	23.57	30	Pass
			25	0	22.09	0.45	22.54	30	Pass
			25	12	22.14	0.45	22.59	30	Pass
			25	25	22.23	0.45	22.68	30	Pass
	132322	1745	1	0	23.16	0.45	23.61	30	Pass
			1	24	23.36	0.45	23.81	30	Pass
			1	49	23.23	0.45	23.68	30	Pass
			25	0	22.25	0.45	22.7	30	Pass
			25	12	22.27	0.45	22.72	30	Pass
			25	25	22.29	0.45	22.74	30	Pass
	132622	1775	1	0	22.25	0.45	22.7	30	Pass
			1	24	23.22	0.45	23.67	30	Pass
			1	49	23.41	0.45	23.86	30	Pass
			1	49	23.20	0.45	23.65	30	Pass
			25	0	22.36	0.45	22.81	30	Pass
			25	12	22.33	0.45	22.78	30	Pass
16QAM	132022	1715	25	25	22.29	0.45	22.74	30	Pass
			50	0	22.32	0.45	22.77	30	Pass
			1	0	22.26	0.45	22.71	30	Pass
			1	24	22.58	0.45	23.03	30	Pass
			1	49	22.51	0.45	22.96	30	Pass
			25	0	21.12	0.45	21.57	30	Pass
	132322	1745	25	12	21.12	0.45	21.57	30	Pass
			25	25	21.24	0.45	21.69	30	Pass
			50	0	21.16	0.45	21.61	30	Pass
			1	0	22.37	0.45	22.82	30	Pass
			1	24	22.56	0.45	23.01	30	Pass
			1	49	22.41	0.45	22.86	30	Pass
	132622	1775	25	0	21.23	0.45	21.68	30	Pass
			25	12	21.22	0.45	21.67	30	Pass
			25	25	21.28	0.45	21.73	30	Pass
			50	0	21.23	0.45	21.68	30	Pass
			1	0	22.31	0.45	22.76	30	Pass
			1	24	22.50	0.45	22.95	30	Pass
132622	1775	1	49	22.38	0.45	22.83	30	Pass	
		25	0	21.29	0.45	21.74	30	Pass	
		25	12	21.24	0.45	21.69	30	Pass	
		25	25	21.25	0.45	21.7	30	Pass	
		50	0	21.24	0.45	21.69	30	Pass	
		50	0	21.24	0.45	21.69	30	Pass	

LTE Band 4 (Bandwidth: 15MHz)

Channel Bandwidth: 15 MHz									
Modulation	Channel	Frequency (MHz)	RB Configuration		Conducted Average Power [dBm]	Antenna Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	Verdict
			Size	Offset					
QPSK	132047	1717.5	1	0	22.84	0.45	23.29	30	Pass
			1	37	22.98	0.45	23.43	30	Pass
			1	74	22.93	0.45	23.38	30	Pass
			37	0	22.13	0.45	22.58	30	Pass
			37	18	22.16	0.45	22.61	30	Pass
			37	38	22.25	0.45	22.7	30	Pass
			75	0	22.20	0.45	22.65	30	Pass
	132322	1745	1	0	22.97	0.45	23.42	30	Pass
			1	37	23.13	0.45	23.58	30	Pass
			1	74	23.10	0.45	23.55	30	Pass
			37	0	22.21	0.45	22.66	30	Pass
			37	18	22.23	0.45	22.68	30	Pass
			37	38	22.32	0.45	22.77	30	Pass
			75	0	22.29	0.45	22.74	30	Pass
	132597	1772.5	1	0	23.09	0.45	23.54	30	Pass
			1	37	23.27	0.45	23.72	30	Pass
			1	74	23.14	0.45	23.59	30	Pass
			37	0	22.46	0.45	22.91	30	Pass
			37	18	22.47	0.45	22.92	30	Pass
			37	38	22.43	0.45	22.88	30	Pass
			75	0	22.47	0.45	22.92	30	Pass
16QAM	132047	1717.5	1	0	21.99	0.45	22.44	30	Pass
			1	37	22.23	0.45	22.68	30	Pass
			1	74	22.20	0.45	22.65	30	Pass
			37	0	21.01	0.45	21.46	30	Pass
			37	18	21.11	0.45	21.56	30	Pass
			37	38	21.14	0.45	21.59	30	Pass
			75	0	21.12	0.45	21.57	30	Pass
	132322	1745	1	0	22.24	0.45	22.69	30	Pass
			1	37	22.35	0.45	22.8	30	Pass
			1	74	22.26	0.45	22.71	30	Pass
			37	0	21.16	0.45	21.61	30	Pass
			37	18	21.19	0.45	21.64	30	Pass
			37	38	21.26	0.45	21.71	30	Pass
			75	0	21.18	0.45	21.63	30	Pass
	132597	1772.5	1	0	22.20	0.45	22.65	30	Pass
			1	37	22.33	0.45	22.78	30	Pass
			1	74	22.27	0.45	22.72	30	Pass
			37	0	21.29	0.45	21.74	30	Pass
			37	18	21.29	0.45	21.74	30	Pass
			37	38	21.27	0.45	21.72	30	Pass
			75	0	21.29	0.45	21.74	30	Pass

LTE Band 4 (Bandwidth: 20MHz)

Channel Bandwidth: 20 MHz									
Modulation	Channel	Frequency (MHz)	RB Configuration		Conducted Average Power [dBm]	Antenna Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	Verdict
			Size	Offset					
QPSK	132072	1720	1	0	22.78	0.45	23.23	30	Pass
			1	49	23.21	0.45	23.66	30	Pass
			1	99	22.91	0.45	23.36	30	Pass
			50	0	21.97	0.45	22.42	30	Pass
			50	25	22.07	0.45	22.52	30	Pass
			50	50	22.07	0.45	22.52	30	Pass
			100	0	22.02	0.45	22.47	30	Pass
	132322	1745	1	0	22.80	0.45	23.25	30	Pass
			1	49	23.28	0.45	23.73	30	Pass
			1	99	23.01	0.45	23.46	30	Pass
			50	0	22.07	0.45	22.52	30	Pass
			50	25	22.11	0.45	22.56	30	Pass
			50	50	22.08	0.45	22.53	30	Pass
			100	0	22.03	0.45	22.48	30	Pass
	132572	1770	1	0	22.73	0.45	23.18	30	Pass
			1	49	23.23	0.45	23.68	30	Pass
			1	99	22.80	0.45	23.25	30	Pass
			50	0	22.17	0.45	22.62	30	Pass
			50	25	22.19	0.45	22.64	30	Pass
			50	50	22.05	0.45	22.5	30	Pass
			100	0	22.10	0.45	22.55	30	Pass
16QAM	132072	1720	1	0	21.84	0.45	22.29	30	Pass
			1	49	22.35	0.45	22.8	30	Pass
			1	99	22.05	0.45	22.5	30	Pass
			50	0	20.92	0.45	21.37	30	Pass
			50	25	21.03	0.45	21.48	30	Pass
			50	50	21.04	0.45	21.49	30	Pass
			100	0	20.95	0.45	21.4	30	Pass
	132322	1745	1	0	22.14	0.45	22.59	30	Pass
			1	49	22.55	0.45	23	30	Pass
			1	99	22.23	0.45	22.68	30	Pass
			50	0	21.09	0.45	21.54	30	Pass
			50	25	21.12	0.45	21.57	30	Pass
			50	50	21.08	0.45	21.53	30	Pass
			100	0	21.00	0.45	21.45	30	Pass
	132572	1770	1	0	21.97	0.45	22.42	30	Pass
			1	49	22.34	0.45	22.79	30	Pass
			1	99	22.04	0.45	22.49	30	Pass
			50	0	21.15	0.45	21.6	30	Pass
			50	25	21.12	0.45	21.57	30	Pass
			50	50	21.01	0.45	21.46	30	Pass
			100	0	21.04	0.45	21.49	30	Pass

LTE Band 5(Bandwidth: 1.4MHz)

Channel Bandwidth: 1.4 MHz									
Modulation	Channel	Frequency (MHz)	RB Configuration		Conducted Average Power [dBm]	Antenna Gain [dBi]	ERP [dBm]	ERP Limit [dBm]	Verdict
			Size	Offset					
QPSK	20407	824.7	1	0	22.87	-0.39	20.33	38.5	Pass
			1	3	23.02	-0.39	20.48	38.5	Pass
			1	5	22.91	-0.39	20.37	38.5	Pass
			3	0	22.93	-0.39	20.39	38.5	Pass
			3	2	22.94	-0.39	20.4	38.5	Pass
			3	3	22.93	-0.39	20.39	38.5	Pass
	20525	836.5	1	0	22.83	-0.39	20.29	38.5	Pass
			1	3	22.93	-0.39	20.39	38.5	Pass
			1	5	22.82	-0.39	20.28	38.5	Pass
			3	0	22.89	-0.39	20.35	38.5	Pass
			3	2	22.88	-0.39	20.34	38.5	Pass
			3	3	22.91	-0.39	20.37	38.5	Pass
	20643	848.3	6	0	21.96	-0.39	19.42	38.5	Pass
			1	0	22.89	-0.39	20.35	38.5	Pass
			1	3	23.03	-0.39	20.49	38.5	Pass
			1	5	22.93	-0.39	20.39	38.5	Pass
			3	0	22.93	-0.39	20.39	38.5	Pass
			3	2	22.93	-0.39	20.39	38.5	Pass
16QAM	20407	824.7	3	3	22.97	-0.39	20.43	38.5	Pass
			6	0	21.96	-0.39	19.42	38.5	Pass
			1	0	21.90	-0.39	19.36	38.5	Pass
			1	3	22.09	-0.39	19.55	38.5	Pass
			1	5	21.93	-0.39	19.39	38.5	Pass
			3	0	21.81	-0.39	19.27	38.5	Pass
	20525	836.5	3	2	21.80	-0.39	19.26	38.5	Pass
			3	3	21.77	-0.39	19.23	38.5	Pass
			6	0	20.97	-0.39	18.43	38.5	Pass
			1	0	21.90	-0.39	19.36	38.5	Pass
			1	3	22.09	-0.39	19.55	38.5	Pass
			1	5	21.93	-0.39	19.39	38.5	Pass
	20643	848.3	3	0	21.80	-0.39	19.26	38.5	Pass
			3	2	21.79	-0.39	19.25	38.5	Pass
			3	3	21.76	-0.39	19.22	38.5	Pass
			6	0	20.93	-0.39	18.39	38.5	Pass
			1	0	21.88	-0.39	19.34	38.5	Pass
			1	3	22.05	-0.39	19.51	38.5	Pass
20643	848.3	1	5	21.94	-0.39	19.4	38.5	Pass	
		3	0	21.84	-0.39	19.3	38.5	Pass	
		3	2	21.82	-0.39	19.28	38.5	Pass	
		3	3	21.83	-0.39	19.29	38.5	Pass	
		6	0	21.00	-0.39	18.46	38.5	Pass	

LTE Band 5(Bandwidth: 3MHz)

Channel Bandwidth: 3 MHz										
Modulation	Channel	Frequency (MHz)	RB Configuration		Conducted Average Power [dBm]	Antenna Gain [dBi]	ERP [dBm]	ERP Limit [dBm]	Verdict	
			Size	Offset						
QPSK	20415	825.5	1	0	23.53	-0.39	20.99	38.5	Pass	
			1	7	23.57	-0.39	21.03	38.5	Pass	
			1	14	23.52	-0.39	20.98	38.5	Pass	
			8	0	22.53	-0.39	19.99	38.5	Pass	
			8	4	22.59	-0.39	20.05	38.5	Pass	
			8	7	22.55	-0.39	20.01	38.5	Pass	
	20525	836.5	15	0	22.46	-0.39	19.92	38.5	Pass	
			1	0	23.40	-0.39	20.86	38.5	Pass	
			1	7	23.45	-0.39	20.91	38.5	Pass	
			1	14	23.48	-0.39	20.94	38.5	Pass	
			8	0	22.43	-0.39	19.89	38.5	Pass	
			8	4	22.52	-0.39	19.98	38.5	Pass	
	20635	847.5	8	7	22.49	-0.39	19.95	38.5	Pass	
			8	7	22.45	-0.39	19.91	38.5	Pass	
			1	0	23.43	-0.39	20.89	38.5	Pass	
			1	7	23.49	-0.39	20.95	38.5	Pass	
			1	14	23.53	-0.39	20.99	38.5	Pass	
			8	0	22.48	-0.39	19.94	38.5	Pass	
	16QAM	20415	825.5	8	4	22.53	-0.39	19.99	38.5	Pass
				8	7	22.54	-0.39	20	38.5	Pass
				8	7	22.54	-0.39	20	38.5	Pass
15				0	22.47	-0.39	19.93	38.5	Pass	
1				0	22.85	-0.39	20.31	38.5	Pass	
1				7	22.87	-0.39	20.33	38.5	Pass	
20525		836.5	1	14	22.85	-0.39	20.31	38.5	Pass	
			8	0	21.54	-0.39	19	38.5	Pass	
			8	4	21.61	-0.39	19.07	38.5	Pass	
			8	7	21.58	-0.39	19.04	38.5	Pass	
			15	0	21.50	-0.39	18.96	38.5	Pass	
			1	0	22.68	-0.39	20.14	38.5	Pass	
20635		847.5	1	7	22.71	-0.39	20.17	38.5	Pass	
			1	14	22.70	-0.39	20.16	38.5	Pass	
			8	0	21.53	-0.39	18.99	38.5	Pass	
			8	4	21.65	-0.39	19.11	38.5	Pass	
			8	7	21.58	-0.39	19.04	38.5	Pass	
			15	0	21.45	-0.39	18.91	38.5	Pass	
20415		825.5	1	0	22.64	-0.39	20.1	38.5	Pass	
			1	7	22.69	-0.39	20.15	38.5	Pass	
			1	14	22.72	-0.39	20.18	38.5	Pass	
	8		0	21.56	-0.39	19.02	38.5	Pass		
	8		4	21.64	-0.39	19.1	38.5	Pass		
	8		7	21.59	-0.39	19.05	38.5	Pass		
20525	836.5	15	0	21.48	-0.39	18.94	38.5	Pass		

LTE Band 5(Bandwidth: 5MHz)

Channel Bandwidth: 5 MHz										
Modulation	Channel	Frequency (MHz)	RB Configuration		Conducted Average Power [dBm]	Antenna Gain [dBi]	ERP [dBm]	ERP Limit [dBm]	Verdict	
			Size	Offset						
QPSK	20425	826.5	1	0	23.50	-0.39	20.96	38.5	Pass	
			1	12	23.94	-0.39	21.4	38.5	Pass	
			1	24	23.58	-0.39	21.04	38.5	Pass	
			12	0	22.53	-0.39	19.99	38.5	Pass	
			12	6	22.63	-0.39	20.09	38.5	Pass	
			12	13	22.54	-0.39	20	38.5	Pass	
	20525	836.5	25	0	22.57	-0.39	20.03	38.5	Pass	
			1	0	23.45	-0.39	20.91	38.5	Pass	
			1	12	23.88	-0.39	21.34	38.5	Pass	
			1	24	23.51	-0.39	20.97	38.5	Pass	
			12	0	22.48	-0.39	19.94	38.5	Pass	
			12	6	22.52	-0.39	19.98	38.5	Pass	
	20625	846.5	12	13	22.48	-0.39	19.94	38.5	Pass	
			12	0	22.50	-0.39	19.96	38.5	Pass	
			1	0	23.41	-0.39	20.87	38.5	Pass	
			1	12	23.86	-0.39	21.32	38.5	Pass	
			1	24	23.58	-0.39	21.04	38.5	Pass	
			12	0	22.47	-0.39	19.93	38.5	Pass	
	16QAM	20425	826.5	12	6	22.56	-0.39	20.02	38.5	Pass
				12	13	22.51	-0.39	19.97	38.5	Pass
				25	0	22.53	-0.39	19.99	38.5	Pass
1				0	22.67	-0.39	20.13	38.5	Pass	
1				12	23.03	-0.39	20.49	38.5	Pass	
1				24	22.72	-0.39	20.18	38.5	Pass	
20525		836.5	12	0	21.67	-0.39	19.13	38.5	Pass	
			12	6	21.78	-0.39	19.24	38.5	Pass	
			12	13	21.68	-0.39	19.14	38.5	Pass	
			25	0	21.62	-0.39	19.08	38.5	Pass	
			1	0	22.61	-0.39	20.07	38.5	Pass	
			1	12	23.02	-0.39	20.48	38.5	Pass	
20625		846.5	1	24	22.74	-0.39	20.2	38.5	Pass	
			12	0	21.59	-0.39	19.05	38.5	Pass	
			12	6	21.65	-0.39	19.11	38.5	Pass	
			12	13	21.61	-0.39	19.07	38.5	Pass	
			25	0	21.59	-0.39	19.05	38.5	Pass	
			1	0	22.57	-0.39	20.03	38.5	Pass	
20425		826.5	1	12	23.15	-0.39	20.61	38.5	Pass	
			1	24	22.71	-0.39	20.17	38.5	Pass	
			12	0	21.57	-0.39	19.03	38.5	Pass	
	12		6	21.66	-0.39	19.12	38.5	Pass		
	12		13	21.61	-0.39	19.07	38.5	Pass		
	25		0	21.53	-0.39	18.99	38.5	Pass		

LTE Band 5 (Bandwidth: 10MHz)

Channel Bandwidth: 10 MHz										
Modulation	Channel	Frequency (MHz)	RB Configuration		Conducted Average Power [dBm]	Antenna Gain [dBi]	ERP [dBm]	ERP Limit [dBm]	Verdict	
			Size	Offset						
QPSK	20450	829	1	0	23.59	-0.39	21.05	38.5	Pass	
			1	24	23.78	-0.39	21.24	38.5	Pass	
			1	49	23.64	-0.39	21.1	38.5	Pass	
			25	0	22.69	-0.39	20.15	38.5	Pass	
			25	12	22.62	-0.39	20.08	38.5	Pass	
			25	25	22.55	-0.39	20.01	38.5	Pass	
	20525	836.5	1	0	23.44	-0.39	20.9	38.5	Pass	
			1	24	23.65	-0.39	21.11	38.5	Pass	
			1	49	23.66	-0.39	21.12	38.5	Pass	
			25	0	22.59	-0.39	20.05	38.5	Pass	
			25	12	22.60	-0.39	20.06	38.5	Pass	
			25	25	22.65	-0.39	20.11	38.5	Pass	
	20600	844	1	0	23.29	-0.39	20.75	38.5	Pass	
			1	24	23.61	-0.39	21.07	38.5	Pass	
			1	49	23.65	-0.39	21.11	38.5	Pass	
			25	0	22.46	-0.39	19.92	38.5	Pass	
			25	12	22.51	-0.39	19.97	38.5	Pass	
			25	25	22.56	-0.39	20.02	38.5	Pass	
	16QAM	20450	829	1	0	22.86	-0.39	20.32	38.5	Pass
				1	24	23.07	-0.39	20.53	38.5	Pass
				1	49	22.96	-0.39	20.42	38.5	Pass
25				0	21.72	-0.39	19.18	38.5	Pass	
25				12	21.69	-0.39	19.15	38.5	Pass	
25				25	21.67	-0.39	19.13	38.5	Pass	
20525		836.5	1	0	22.66	-0.39	20.12	38.5	Pass	
			1	24	22.93	-0.39	20.39	38.5	Pass	
			1	49	22.86	-0.39	20.32	38.5	Pass	
			25	0	21.68	-0.39	19.14	38.5	Pass	
			25	12	21.64	-0.39	19.1	38.5	Pass	
			25	25	21.71	-0.39	19.17	38.5	Pass	
20600		844	1	0	22.52	-0.39	19.98	38.5	Pass	
			1	24	22.79	-0.39	20.25	38.5	Pass	
			1	49	22.79	-0.39	20.25	38.5	Pass	
			25	0	21.49	-0.39	18.95	38.5	Pass	
			25	12	21.57	-0.39	19.03	38.5	Pass	
			25	25	21.59	-0.39	19.05	38.5	Pass	
				50	0	21.54	-0.39	19	38.5	Pass

LTE Band 7 (Bandwidth: 5MHz)

Channel Bandwidth: 5 MHz									
Modulation	Channel	Frequency (MHz)	RB Configuration		Conducted Average Power [dBm]	Antenna Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	Verdict
			Size	Offset					
QPSK	20775	2502.5	1	0	20.78	1.17	21.95	33	Pass
			1	12	21.10	1.17	22.27	33	Pass
			1	24	20.82	1.17	21.99	33	Pass
			12	0	19.75	1.17	20.92	33	Pass
			12	6	19.84	1.17	21.01	33	Pass
			12	13	19.81	1.17	20.98	33	Pass
			25	0	19.84	1.17	21.01	33	Pass
	21100	2535	1	0	20.86	1.17	22.03	33	Pass
			1	12	21.15	1.17	22.32	33	Pass
			1	24	20.86	1.17	22.03	33	Pass
			12	0	19.82	1.17	20.99	33	Pass
			12	6	19.87	1.17	21.04	33	Pass
			12	13	19.87	1.17	21.04	33	Pass
			25	0	19.83	1.17	21	33	Pass
	21425	2567.5	1	0	20.86	1.17	22.03	33	Pass
			1	12	21.19	1.17	22.36	33	Pass
			1	24	20.89	1.17	22.06	33	Pass
			12	0	20.01	1.17	21.18	33	Pass
			12	6	20.04	1.17	21.21	33	Pass
			12	13	20.01	1.17	21.18	33	Pass
			25	0	20.02	1.17	21.19	33	Pass
16QAM	20775	2502.5	1	0	20.02	1.17	21.19	33	Pass
			1	12	20.37	1.17	21.54	33	Pass
			1	24	20.03	1.17	21.2	33	Pass
			12	0	18.90	1.17	20.07	33	Pass
			12	6	18.96	1.17	20.13	33	Pass
			12	13	18.97	1.17	20.14	33	Pass
			25	0	18.84	1.17	20.01	33	Pass
	21100	2535	1	0	19.97	1.17	21.14	33	Pass
			1	12	20.27	1.17	21.44	33	Pass
			1	24	19.99	1.17	21.16	33	Pass
			12	0	18.82	1.17	19.99	33	Pass
			12	6	18.88	1.17	20.05	33	Pass
			12	13	18.81	1.17	19.98	33	Pass
			25	0	18.87	1.17	20.04	33	Pass
	21425	2567.5	1	0	20.16	1.17	21.33	33	Pass
			1	12	20.46	1.17	21.63	33	Pass
			1	24	20.21	1.17	21.38	33	Pass
			12	0	19.05	1.17	20.22	33	Pass
			12	6	19.09	1.17	20.26	33	Pass
			12	13	19.03	1.17	20.2	33	Pass
			25	0	18.97	1.17	20.14	33	Pass

LTE Band 7 (Bandwidth: 10MHz)

Channel Bandwidth: 10 MHz									
Modulation	Channel	Frequency (MHz)	RB Configuration		Conducted Average Power [dBm]	Antenna Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	Verdict
			Size	Offset					
QPSK	20800	2505	1	0	20.79	1.17	21.96	33	Pass
			1	24	20.95	1.17	22.12	33	Pass
			1	49	20.82	1.17	21.99	33	Pass
			25	0	19.85	1.17	21.02	33	Pass
			25	12	19.87	1.17	21.04	33	Pass
			25	25	19.90	1.17	21.07	33	Pass
	21100	2535	1	0	20.78	1.17	21.95	33	Pass
			1	24	20.97	1.17	22.14	33	Pass
			1	49	20.84	1.17	22.01	33	Pass
			25	0	19.91	1.17	21.08	33	Pass
			25	12	19.86	1.17	21.03	33	Pass
			25	25	19.96	1.17	21.13	33	Pass
	21400	2565	50	0	19.94	1.17	21.11	33	Pass
			1	0	20.86	1.17	22.03	33	Pass
			1	24	21.09	1.17	22.26	33	Pass
			1	49	20.94	1.17	22.11	33	Pass
			25	0	20.07	1.17	21.24	33	Pass
			25	12	20.03	1.17	21.2	33	Pass
16QAM	20800	2505	25	25	20.08	1.17	21.25	33	Pass
			50	0	20.03	1.17	21.2	33	Pass
			1	0	20.05	1.17	21.22	33	Pass
			1	24	20.27	1.17	21.44	33	Pass
			1	49	20.06	1.17	21.23	33	Pass
			25	0	18.85	1.17	20.02	33	Pass
	21100	2535	25	12	18.85	1.17	20.02	33	Pass
			25	25	18.92	1.17	20.09	33	Pass
			50	0	18.88	1.17	20.05	33	Pass
			1	0	20.13	1.17	21.3	33	Pass
			1	24	20.32	1.17	21.49	33	Pass
			1	49	20.21	1.17	21.38	33	Pass
	21400	2565	25	0	18.87	1.17	20.04	33	Pass
			25	12	18.88	1.17	20.05	33	Pass
			25	25	18.98	1.17	20.15	33	Pass
			50	0	18.92	1.17	20.09	33	Pass
			1	0	20.19	1.17	21.36	33	Pass
			1	24	20.39	1.17	21.56	33	Pass
			1	49	20.25	1.17	21.42	33	Pass
			25	0	19.03	1.17	20.2	33	Pass
			25	12	19.01	1.17	20.18	33	Pass
			25	25	19.08	1.17	20.25	33	Pass
			50	0	19.02	1.17	20.19	33	Pass

LTE Band 7 (Bandwidth: 15MHz)

Channel Bandwidth: 15 MHz									
Modulation	Channel	Frequency (MHz)	RB Configuration		Conducted Average Power [dBm]	Antenna Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	Verdict
			Size	Offset					
QPSK	20825	2507.5	1	0	20.75	1.17	21.92	33	Pass
			1	37	20.87	1.17	22.04	33	Pass
			1	74	20.80	1.17	21.97	33	Pass
			37	0	19.81	1.17	20.98	33	Pass
			37	18	19.89	1.17	21.06	33	Pass
			37	38	19.92	1.17	21.09	33	Pass
			75	0	19.88	1.17	21.05	33	Pass
	21100	2535	1	0	20.80	1.17	21.97	33	Pass
			1	37	20.90	1.17	22.07	33	Pass
			1	74	20.81	1.17	21.98	33	Pass
			37	0	19.92	1.17	21.09	33	Pass
			37	18	19.91	1.17	21.08	33	Pass
			37	38	19.96	1.17	21.13	33	Pass
			75	0	20.02	1.17	21.19	33	Pass
	21375	2562.5	1	0	20.76	1.17	21.93	33	Pass
			1	37	20.95	1.17	22.12	33	Pass
			1	74	20.84	1.17	22.01	33	Pass
			37	0	20.01	1.17	21.18	33	Pass
			37	18	20.08	1.17	21.25	33	Pass
			37	38	20.11	1.17	21.28	33	Pass
			75	0	20.09	1.17	21.26	33	Pass
16QAM	20825	2507.5	1	0	20.07	1.17	21.24	33	Pass
			1	37	20.14	1.17	21.31	33	Pass
			1	74	20.11	1.17	21.28	33	Pass
			37	0	18.86	1.17	20.03	33	Pass
			37	18	18.88	1.17	20.05	33	Pass
			37	38	18.94	1.17	20.11	33	Pass
			75	0	18.85	1.17	20.02	33	Pass
	21100	2535	1	0	19.97	1.17	21.14	33	Pass
			1	37	20.10	1.17	21.27	33	Pass
			1	74	20.03	1.17	21.2	33	Pass
			37	0	18.86	1.17	20.03	33	Pass
			37	18	18.87	1.17	20.04	33	Pass
			37	38	18.91	1.17	20.08	33	Pass
			75	0	18.93	1.17	20.1	33	Pass
	21375	2562.5	1	0	20.08	1.17	21.25	33	Pass
			1	37	20.25	1.17	21.42	33	Pass
			1	74	20.15	1.17	21.32	33	Pass
			37	0	18.99	1.17	20.16	33	Pass
			37	18	19.03	1.17	20.2	33	Pass
			37	38	19.06	1.17	20.23	33	Pass
			75	0	19.03	1.17	20.2	33	Pass

LTE Band 7 (Bandwidth: 20MHz)

Channel Bandwidth: 20 MHz										
Modulation	Channel	Frequency (MHz)	RB Configuration		Conducted Average Power [dBm]	Antenna Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	Verdict	
			Size	Offset						
QPSK	20850	2510	1	0	20.18	1.17	21.35	33	Pass	
			1	49	20.61	1.17	21.78	33	Pass	
			1	99	20.23	1.17	21.4	33	Pass	
			50	0	19.30	1.17	20.47	33	Pass	
			50	25	19.74	1.17	20.91	33	Pass	
			50	50	19.82	1.17	20.99	33	Pass	
	21100	2535	1	0	20.00	1.17	21.17	33	Pass	
			1	49	20.43	1.17	21.6	33	Pass	
			1	99	20.12	1.17	21.29	33	Pass	
			50	0	19.35	1.17	20.52	33	Pass	
			50	25	19.51	1.17	20.68	33	Pass	
			50	50	19.66	1.17	20.83	33	Pass	
	21350	2560	1	0	19.48	1.17	20.65	33	Pass	
			1	49	20.29	1.17	21.46	33	Pass	
			1	99	20.41	1.17	21.58	33	Pass	
			50	0	19.48	1.17	20.65	33	Pass	
			50	25	19.56	1.17	20.73	33	Pass	
			50	50	19.55	1.17	20.72	33	Pass	
	16QAM	20850	2510	1	0	19.51	1.17	20.68	33	Pass
				1	49	20.07	1.17	21.24	33	Pass
				1	99	19.54	1.17	20.71	33	Pass
50				0	18.28	1.17	19.45	33	Pass	
50				25	18.67	1.17	19.84	33	Pass	
50				50	18.77	1.17	19.94	33	Pass	
21100		2535	100	0	18.31	1.17	19.48	33	Pass	
			1	0	19.30	1.17	20.47	33	Pass	
			1	49	19.72	1.17	20.89	33	Pass	
			1	99	19.40	1.17	20.57	33	Pass	
			50	0	18.38	1.17	19.55	33	Pass	
			50	25	18.55	1.17	19.72	33	Pass	
21350		2560	50	50	18.63	1.17	19.8	33	Pass	
			100	0	18.40	1.17	19.57	33	Pass	
			1	0	19.46	1.17	20.63	33	Pass	
			1	49	19.88	1.17	21.05	33	Pass	
			1	99	19.58	1.17	20.75	33	Pass	
			50	0	18.45	1.17	19.62	33	Pass	
				50	25	18.53	1.17	19.7	33	Pass
				50	50	18.52	1.17	19.69	33	Pass
				100	0	18.46	1.17	19.63	33	Pass

LTE Band 12(Bandwidth: 1.4MHz)

Channel Bandwidth: 1.4 MHz									
Modulation	Channel	Frequency (MHz)	RB Configuration		Conducted Average Power [dBm]	Antenna Gain [dBi]	ERP [dBm]	ERP Limit [dBm]	Verdict
			Size	Offset					
QPSK	23017	699.7	1	0	23.28	-0.4	20.73	34.77	Pass
			1	3	23.41	-0.4	20.86	34.77	Pass
			1	5	23.29	-0.4	20.74	34.77	Pass
			3	0	23.28	-0.4	20.73	34.77	Pass
			3	2	23.35	-0.4	20.8	34.77	Pass
			3	3	23.29	-0.4	20.74	34.77	Pass
	23095	707.5	1	0	23.31	-0.4	20.76	34.77	Pass
			1	3	23.48	-0.4	20.93	34.77	Pass
			1	5	23.37	-0.4	20.82	34.77	Pass
			3	0	23.37	-0.4	20.82	34.77	Pass
			3	2	23.42	-0.4	20.87	34.77	Pass
			3	3	23.42	-0.4	20.87	34.77	Pass
	23173	715.3	6	0	22.43	-0.4	19.88	34.77	Pass
			1	0	23.62	-0.4	21.07	34.77	Pass
			1	3	23.78	-0.4	21.23	34.77	Pass
			1	5	23.61	-0.4	21.06	34.77	Pass
			3	0	23.55	-0.4	21	34.77	Pass
			3	2	23.60	-0.4	21.05	34.77	Pass
16QAM	23017	699.7	3	3	23.51	-0.4	20.96	34.77	Pass
			6	0	22.65	-0.4	20.1	34.77	Pass
			1	0	22.38	-0.4	19.83	34.77	Pass
			1	3	22.53	-0.4	19.98	34.77	Pass
			1	5	22.33	-0.4	19.78	34.77	Pass
			3	0	22.31	-0.4	19.76	34.77	Pass
	23095	707.5	3	2	22.29	-0.4	19.74	34.77	Pass
			3	3	22.30	-0.4	19.75	34.77	Pass
			6	0	21.38	-0.4	18.83	34.77	Pass
			1	0	22.43	-0.4	19.88	34.77	Pass
			1	3	22.63	-0.4	20.08	34.77	Pass
			1	5	22.47	-0.4	19.92	34.77	Pass
	23173	715.3	3	0	22.45	-0.4	19.9	34.77	Pass
			3	2	22.46	-0.4	19.91	34.77	Pass
			3	3	22.48	-0.4	19.93	34.77	Pass
			6	0	21.33	-0.4	18.78	34.77	Pass
			1	0	22.52	-0.4	19.97	34.77	Pass
			1	3	22.73	-0.4	20.18	34.77	Pass
23173	715.3	1	5	22.57	-0.4	20.02	34.77	Pass	
		3	0	22.59	-0.4	20.04	34.77	Pass	
		3	2	22.61	-0.4	20.06	34.77	Pass	
		3	3	22.55	-0.4	20	34.77	Pass	
		6	0	21.50	-0.4	18.95	34.77	Pass	

LTE Band 12(Bandwidth: 3MHz)

Channel Bandwidth: 3 MHz										
Modulation	Channel	Frequency (MHz)	RB Configuration		Conducted Average Power [dBm]	Antenna Gain [dBi]	ERP [dBm]	ERP Limit [dBm]	Verdict	
			Size	Offset						
QPSK	23025	700.5	1	0	23.28	-0.4	20.73	34.77	Pass	
			1	7	23.30	-0.4	20.75	34.77	Pass	
			1	14	23.31	-0.4	20.76	34.77	Pass	
			8	0	22.26	-0.4	19.71	34.77	Pass	
			8	4	22.32	-0.4	19.77	34.77	Pass	
			8	7	22.25	-0.4	19.7	34.77	Pass	
	23095	707.5	1	0	23.26	-0.4	20.71	34.77	Pass	
			1	7	23.28	-0.4	20.73	34.77	Pass	
			1	14	23.37	-0.4	20.82	34.77	Pass	
			8	0	22.32	-0.4	19.77	34.77	Pass	
			8	4	22.37	-0.4	19.82	34.77	Pass	
			8	7	22.38	-0.4	19.83	34.77	Pass	
	23165	714.5	1	0	22.35	-0.4	19.8	34.77	Pass	
			1	7	23.53	-0.4	20.98	34.77	Pass	
			1	7	23.55	-0.4	21	34.77	Pass	
			1	14	23.60	-0.4	21.05	34.77	Pass	
			8	0	22.57	-0.4	20.02	34.77	Pass	
			8	4	22.62	-0.4	20.07	34.77	Pass	
	16QAM	23025	700.5	8	7	22.57	-0.4	20.02	34.77	Pass
				8	7	22.48	-0.4	19.93	34.77	Pass
				1	0	22.38	-0.4	19.83	34.77	Pass
1				7	22.34	-0.4	19.79	34.77	Pass	
1				14	22.36	-0.4	19.81	34.77	Pass	
8				0	21.12	-0.4	18.57	34.77	Pass	
23095		707.5	8	4	21.17	-0.4	18.62	34.77	Pass	
			8	7	21.11	-0.4	18.56	34.77	Pass	
			15	0	21.15	-0.4	18.6	34.77	Pass	
			1	0	22.49	-0.4	19.94	34.77	Pass	
			1	7	22.47	-0.4	19.92	34.77	Pass	
			1	14	22.53	-0.4	19.98	34.77	Pass	
23165		714.5	8	0	21.33	-0.4	18.78	34.77	Pass	
			8	4	21.43	-0.4	18.88	34.77	Pass	
			8	7	21.39	-0.4	18.84	34.77	Pass	
			15	0	21.29	-0.4	18.74	34.77	Pass	
			1	0	22.59	-0.4	20.04	34.77	Pass	
			1	7	22.59	-0.4	20.04	34.77	Pass	
23165		714.5	1	14	22.63	-0.4	20.08	34.77	Pass	
			8	0	21.50	-0.4	18.95	34.77	Pass	
			8	4	21.57	-0.4	19.02	34.77	Pass	
	8		7	21.50	-0.4	18.95	34.77	Pass		
	15		0	21.37	-0.4	18.82	34.77	Pass		

LTE Band 12(Bandwidth: 5MHz)

Channel Bandwidth: 5 MHz										
Modulation	Channel	Frequency (MHz)	RB Configuration		Conducted Average Power [dBm]	Antenna Gain [dBi]	ERP [dBm]	ERP Limit [dBm]	Verdict	
			Size	Offset						
QPSK	23035	701.5	1	0	23.30	-0.4	20.75	34.77	Pass	
			1	12	23.66	-0.4	21.11	34.77	Pass	
			1	24	23.31	-0.4	20.76	34.77	Pass	
			12	0	22.26	-0.4	19.71	34.77	Pass	
			12	6	22.28	-0.4	19.73	34.77	Pass	
			12	13	22.21	-0.4	19.66	34.77	Pass	
	23095	707.5	25	0	22.25	-0.4	19.7	34.77	Pass	
			1	0	23.25	-0.4	20.7	34.77	Pass	
			1	12	23.56	-0.4	21.01	34.77	Pass	
			1	24	23.35	-0.4	20.8	34.77	Pass	
			12	0	22.24	-0.4	19.69	34.77	Pass	
			12	6	22.37	-0.4	19.82	34.77	Pass	
	23155	713.5	12	13	22.38	-0.4	19.83	34.77	Pass	
			12	13	22.38	-0.4	19.83	34.77	Pass	
			25	0	22.39	-0.4	19.84	34.77	Pass	
			1	0	23.41	-0.4	20.86	34.77	Pass	
			1	12	23.85	-0.4	21.3	34.77	Pass	
			1	24	23.52	-0.4	20.97	34.77	Pass	
	16QAM	23035	701.5	12	0	22.46	-0.4	19.91	34.77	Pass
				12	6	22.54	-0.4	19.99	34.77	Pass
				12	13	22.42	-0.4	19.87	34.77	Pass
25				0	22.47	-0.4	19.92	34.77	Pass	
1				0	22.33	-0.4	19.78	34.77	Pass	
1				12	22.60	-0.4	20.05	34.77	Pass	
23095		707.5	1	24	22.42	-0.4	19.87	34.77	Pass	
			12	0	21.20	-0.4	18.65	34.77	Pass	
			12	6	21.24	-0.4	18.69	34.77	Pass	
			12	13	21.20	-0.4	18.65	34.77	Pass	
			25	0	21.24	-0.4	18.69	34.77	Pass	
			1	0	22.40	-0.4	19.85	34.77	Pass	
23155		713.5	1	12	22.75	-0.4	20.2	34.77	Pass	
			1	24	22.48	-0.4	19.93	34.77	Pass	
			12	0	21.31	-0.4	18.76	34.77	Pass	
			12	6	21.43	-0.4	18.88	34.77	Pass	
			12	13	21.42	-0.4	18.87	34.77	Pass	
			25	0	21.38	-0.4	18.83	34.77	Pass	
23155		713.5	1	0	22.52	-0.4	19.97	34.77	Pass	
			1	12	22.86	-0.4	20.31	34.77	Pass	
			1	24	22.61	-0.4	20.06	34.77	Pass	
	12		0	21.47	-0.4	18.92	34.77	Pass		
	12		6	21.54	-0.4	18.99	34.77	Pass		
	12		13	21.39	-0.4	18.84	34.77	Pass		
25	0	21.44	-0.4	18.89	34.77	Pass				

LTE Band 12(Bandwidth: 10MHz)

Channel Bandwidth: 10 MHz										
Modulation	Channel	Frequency (MHz)	RB Configuration		Conducted Average Power [dBm]	Antenna Gain [dBi]	ERP [dBm]	ERP Limit [dBm]	Verdict	
			Size	Offset						
QPSK	23060	704	1	0	23.24	-0.4	20.69	34.77	Pass	
			1	24	23.42	-0.4	20.87	34.77	Pass	
			1	49	23.46	-0.4	20.91	34.77	Pass	
			25	0	22.38	-0.4	19.83	34.77	Pass	
			25	12	22.31	-0.4	19.76	34.77	Pass	
			25	25	22.40	-0.4	19.85	34.77	Pass	
	23095	707.5	1	0	23.27	-0.4	20.72	34.77	Pass	
			1	24	23.45	-0.4	20.9	34.77	Pass	
			1	49	23.48	-0.4	20.93	34.77	Pass	
			25	0	22.33	-0.4	19.78	34.77	Pass	
			25	12	22.38	-0.4	19.83	34.77	Pass	
			25	25	22.52	-0.4	19.97	34.77	Pass	
	23130	711	1	0	23.33	-0.4	20.78	34.77	Pass	
			1	24	23.56	-0.4	21.01	34.77	Pass	
			1	49	23.59	-0.4	21.04	34.77	Pass	
			25	0	22.35	-0.4	19.8	34.77	Pass	
			25	12	22.45	-0.4	19.9	34.77	Pass	
			25	25	22.42	-0.4	19.87	34.77	Pass	
	16QAM	23060	704	1	0	22.33	-0.4	19.78	34.77	Pass
				1	24	22.56	-0.4	20.01	34.77	Pass
				1	49	22.57	-0.4	20.02	34.77	Pass
25				0	21.38	-0.4	18.83	34.77	Pass	
25				12	21.30	-0.4	18.75	34.77	Pass	
25				25	21.39	-0.4	18.84	34.77	Pass	
23095		707.5	1	0	22.40	-0.4	19.85	34.77	Pass	
			1	24	22.64	-0.4	20.09	34.77	Pass	
			1	49	22.56	-0.4	20.01	34.77	Pass	
			25	0	21.33	-0.4	18.78	34.77	Pass	
			25	12	21.30	-0.4	18.75	34.77	Pass	
			25	25	21.50	-0.4	18.95	34.77	Pass	
23130		711	1	0	21.40	-0.4	18.85	34.77	Pass	
			1	24	22.53	-0.4	19.98	34.77	Pass	
			1	49	22.69	-0.4	20.14	34.77	Pass	
			1	49	22.66	-0.4	20.11	34.77	Pass	
			25	0	21.30	-0.4	18.75	34.77	Pass	
			25	12	21.41	-0.4	18.86	34.77	Pass	
				25	25	21.35	-0.4	18.8	34.77	Pass
				50	0	21.32	-0.4	18.77	34.77	Pass

LTE Band 13(Bandwidth: 5MHz)

Channel Bandwidth: 5 MHz										
Modulation	Channel	Frequency (MHz)	RB Configuration		Conducted Average Power [dBm]	Antenna Gain [dBi]	ERP [dBm]	ERP Limit [dBm]	Verdict	
			Size	Offset						
QPSK	23205	779.5	1	0	24.06	-0.4	21.51	34.77	Pass	
			1	12	24.27	-0.4	21.72	34.77	Pass	
			1	24	23.94	-0.4	21.39	34.77	Pass	
			12	0	22.95	-0.4	20.4	34.77	Pass	
			12	6	23.00	-0.4	20.45	34.77	Pass	
			12	13	22.96	-0.4	20.41	34.77	Pass	
	23230	782	25	0	22.96	-0.4	20.41	34.77	Pass	
			1	0	23.87	-0.4	21.32	34.77	Pass	
			1	12	24.15	-0.4	21.6	34.77	Pass	
			1	24	23.81	-0.4	21.26	34.77	Pass	
			12	0	22.76	-0.4	20.21	34.77	Pass	
			12	6	22.83	-0.4	20.28	34.77	Pass	
	23255	784.5	12	13	22.78	-0.4	20.23	34.77	Pass	
			12	0	22.79	-0.4	20.24	34.77	Pass	
			1	0	23.80	-0.4	21.25	34.77	Pass	
			1	12	24.03	-0.4	21.48	34.77	Pass	
			1	24	23.69	-0.4	21.14	34.77	Pass	
			12	0	22.71	-0.4	20.16	34.77	Pass	
	16QAM	23205	779.5	12	6	22.75	-0.4	20.2	34.77	Pass
				12	13	22.64	-0.4	20.09	34.77	Pass
				25	0	22.68	-0.4	20.13	34.77	Pass
1				0	23.03	-0.4	20.48	34.77	Pass	
1				12	23.29	-0.4	20.74	34.77	Pass	
1				24	23.00	-0.4	20.45	34.77	Pass	
23230		782	12	0	22.00	-0.4	19.45	34.77	Pass	
			12	6	22.03	-0.4	19.48	34.77	Pass	
			12	13	22.02	-0.4	19.47	34.77	Pass	
			25	0	21.93	-0.4	19.38	34.77	Pass	
			1	0	22.93	-0.4	20.38	34.77	Pass	
			1	12	23.19	-0.4	20.64	34.77	Pass	
23255		784.5	1	24	22.86	-0.4	20.31	34.77	Pass	
			12	0	21.75	-0.4	19.2	34.77	Pass	
			12	6	21.83	-0.4	19.28	34.77	Pass	
			12	13	21.77	-0.4	19.22	34.77	Pass	
			25	0	21.72	-0.4	19.17	34.77	Pass	
			1	0	22.84	-0.4	20.29	34.77	Pass	
23255		784.5	1	12	23.17	-0.4	20.62	34.77	Pass	
			1	24	22.78	-0.4	20.23	34.77	Pass	
			12	0	21.79	-0.4	19.24	34.77	Pass	
	12		6	21.80	-0.4	19.25	34.77	Pass		
	12		13	21.69	-0.4	19.14	34.77	Pass		
	25		0	21.64	-0.4	19.09	34.77	Pass		

LTE Band 13(Bandwidth: 10MHz)

Channel Bandwidth: 10 MHz									
Modulation	Channel	Frequency (MHz)	RB Configuration		Conducted Average Power [dBm]	Antenna Gain [dBi]	ERP [dBm]	ERP Limit [dBm]	Verdict
			Size	Offset					
QPSK	23230	782	1	0	23.95	-0.4	21.4	34.77	Pass
			1	24	24.00	-0.4	21.45	34.77	Pass
			1	49	23.77	-0.4	21.22	34.77	Pass
			25	0	22.84	-0.4	20.29	34.77	Pass
			25	12	22.83	-0.4	20.28	34.77	Pass
			25	25	22.75	-0.4	20.2	34.77	Pass
			50	0	22.77	-0.4	20.22	34.77	Pass
16QAM	23230	782	1	0	23.00	-0.4	20.45	34.77	Pass
			1	24	23.13	-0.4	20.58	34.77	Pass
			1	49	22.94	-0.4	20.39	34.77	Pass
			25	0	21.83	-0.4	19.28	34.77	Pass
			25	12	21.77	-0.4	19.22	34.77	Pass
			25	25	21.73	-0.4	19.18	34.77	Pass
			50	0	21.76	-0.4	19.21	34.77	Pass

LTE Band 17(Bandwidth: 5MHz)

Channel Bandwidth: 5 MHz											
Modulation	Channel	Frequency (MHz)	RB Configuration		Conducted Average Power [dBm]	Antenna Gain [dBi]	ERP [dBm]	ERP Limit [dBm]	Verdict		
			Size	Offset							
QPSK	23755	706.5	1	0	23.29	-0.4	20.74	34.77	Pass		
			1	12	23.73	-0.4	21.18	34.77	Pass		
			1	24	23.42	-0.4	20.87	34.77	Pass		
			12	0	22.35	-0.4	19.8	34.77	Pass		
			12	6	22.43	-0.4	19.88	34.77	Pass		
			12	13	22.46	-0.4	19.91	34.77	Pass		
	23790	710	25	0	22.40	-0.4	19.85	34.77	Pass		
			1	0	23.41	-0.4	20.86	34.77	Pass		
			1	12	23.94	-0.4	21.39	34.77	Pass		
			1	24	23.55	-0.4	21	34.77	Pass		
			12	0	22.39	-0.4	19.84	34.77	Pass		
			12	6	22.51	-0.4	19.96	34.77	Pass		
			12	13	22.47	-0.4	19.92	34.77	Pass		
			25	0	22.43	-0.4	19.88	34.77	Pass		
			23825	713.5	1	0	23.44	-0.4	20.89	34.77	Pass
					1	12	23.92	-0.4	21.37	34.77	Pass
	1	24			23.64	-0.4	21.09	34.77	Pass		
	12	0			22.55	-0.4	20	34.77	Pass		
	12	6			22.61	-0.4	20.06	34.77	Pass		
	12	13			22.47	-0.4	19.92	34.77	Pass		
	25	0			22.50	-0.4	19.95	34.77	Pass		
16QAM	23755	706.5	1	0	22.46	-0.4	19.91	34.77	Pass		
			1	12	22.84	-0.4	20.29	34.77	Pass		
			1	24	22.55	-0.4	20	34.77	Pass		
			12	0	21.44	-0.4	18.89	34.77	Pass		
			12	6	21.54	-0.4	18.99	34.77	Pass		
			12	13	21.52	-0.4	18.97	34.77	Pass		
	23790	710	25	0	21.42	-0.4	18.87	34.77	Pass		
			1	0	22.59	-0.4	20.04	34.77	Pass		
			1	12	22.95	-0.4	20.4	34.77	Pass		
			1	24	22.61	-0.4	20.06	34.77	Pass		
			12	0	21.44	-0.4	18.89	34.77	Pass		
			12	6	21.54	-0.4	18.99	34.77	Pass		
			12	13	21.48	-0.4	18.93	34.77	Pass		
			25	0	21.43	-0.4	18.88	34.77	Pass		
			23825	713.5	1	0	22.51	-0.4	19.96	34.77	Pass
					1	12	22.86	-0.4	20.31	34.77	Pass
	1	24			22.66	-0.4	20.11	34.77	Pass		
	12	0			21.58	-0.4	19.03	34.77	Pass		
	12	6			21.63	-0.4	19.08	34.77	Pass		
	12	13			21.48	-0.4	18.93	34.77	Pass		
	25	0			21.46	-0.4	18.91	34.77	Pass		

LTE Band 17(Bandwidth: 10MHz)

Channel Bandwidth: 5 MHz										
Modulation	Channel	Frequency (MHz)	RB Configuration		Conducted Average Power [dBm]	Antenna Gain [dBi]	ERP [dBm]	ERP Limit [dBm]	Verdict	
			Size	Offset						
QPSK	23780	709	1	0	23.36	-0.4	20.81	34.77	Pass	
			1	24	23.60	-0.4	21.05	34.77	Pass	
			1	49	23.63	-0.4	21.08	34.77	Pass	
			25	0	22.40	-0.4	19.85	34.77	Pass	
			25	12	22.48	-0.4	19.93	34.77	Pass	
			25	25	22.49	-0.4	19.94	34.77	Pass	
	23790	710	1	0	23.35	-0.4	20.8	34.77	Pass	
			1	24	23.60	-0.4	21.05	34.77	Pass	
			1	49	23.63	-0.4	21.08	34.77	Pass	
			25	0	22.40	-0.4	19.85	34.77	Pass	
			25	12	22.51	-0.4	19.96	34.77	Pass	
			25	25	22.46	-0.4	19.91	34.77	Pass	
	23800	711	1	0	23.40	-0.4	20.85	34.77	Pass	
			1	24	23.66	-0.4	21.11	34.77	Pass	
			1	49	23.72	-0.4	21.17	34.77	Pass	
			25	0	22.42	-0.4	19.87	34.77	Pass	
			25	12	22.53	-0.4	19.98	34.77	Pass	
			25	25	22.49	-0.4	19.94	34.77	Pass	
	16QAM	23780	709	1	0	22.47	-0.4	19.92	34.77	Pass
				1	24	22.77	-0.4	20.22	34.77	Pass
				1	49	22.57	-0.4	20.02	34.77	Pass
25				0	21.33	-0.4	18.78	34.77	Pass	
25				12	21.44	-0.4	18.89	34.77	Pass	
25				25	21.43	-0.4	18.88	34.77	Pass	
23790		710	1	0	22.53	-0.4	19.98	34.77	Pass	
			1	24	22.74	-0.4	20.19	34.77	Pass	
			1	49	22.66	-0.4	20.11	34.77	Pass	
			25	0	21.35	-0.4	18.8	34.77	Pass	
			25	12	21.46	-0.4	18.91	34.77	Pass	
			25	25	21.42	-0.4	18.87	34.77	Pass	
23800		711	1	0	22.71	-0.4	20.16	34.77	Pass	
			1	24	22.86	-0.4	20.31	34.77	Pass	
			1	49	22.78	-0.4	20.23	34.77	Pass	
			25	0	21.42	-0.4	18.87	34.77	Pass	
			25	12	21.50	-0.4	18.95	34.77	Pass	
			25	25	21.44	-0.4	18.89	34.77	Pass	
				50	0	21.43	-0.4	18.88	34.77	Pass

LTE Band 38 (Bandwidth: 5MHz)

Channel Bandwidth: 5 MHz									
Modulation	Channel	Frequency (MHz)	RB Configuration		Conducted Average Power [dBm]	Antenna Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	Verdict
			Size	Offset					
QPSK	37775	2572.5	1	0	23.15	1.17	24.32	33	Pass
			1	12	23.40	1.17	24.57	33	Pass
			1	24	23.12	1.17	24.29	33	Pass
			12	0	22.11	1.17	23.28	33	Pass
			12	6	22.18	1.17	23.35	33	Pass
			12	13	22.10	1.17	23.27	33	Pass
			25	0	22.13	1.17	23.3	33	Pass
	38000	2595	1	0	23.05	1.17	24.22	33	Pass
			1	12	23.35	1.17	24.52	33	Pass
			1	24	23.03	1.17	24.2	33	Pass
			12	0	22.07	1.17	23.24	33	Pass
			12	6	22.14	1.17	23.31	33	Pass
			12	13	22.12	1.17	23.29	33	Pass
			25	0	22.13	1.17	23.3	33	Pass
	38225	2617.5	1	0	23.11	1.17	24.28	33	Pass
			1	12	23.39	1.17	24.56	33	Pass
			1	24	23.07	1.17	24.24	33	Pass
			12	0	22.03	1.17	23.2	33	Pass
			12	6	22.09	1.17	23.26	33	Pass
			12	13	22.07	1.17	23.24	33	Pass
			25	0	22.09	1.17	23.26	33	Pass
16QAM	37775	2572.5	1	0	22.08	1.17	23.25	33	Pass
			1	12	22.34	1.17	23.51	33	Pass
			1	24	22.05	1.17	23.22	33	Pass
			12	0	21.12	1.17	22.29	33	Pass
			12	6	21.17	1.17	22.34	33	Pass
			12	13	21.09	1.17	22.26	33	Pass
			25	0	21.13	1.17	22.3	33	Pass
	38000	2595	1	0	22.39	1.17	23.56	33	Pass
			1	12	22.67	1.17	23.84	33	Pass
			1	24	22.36	1.17	23.53	33	Pass
			12	0	21.12	1.17	22.29	33	Pass
			12	6	21.16	1.17	22.33	33	Pass
			12	13	21.13	1.17	22.3	33	Pass
			25	0	21.11	1.17	22.28	33	Pass
	38225	2617.5	1	0	22.00	1.17	23.17	33	Pass
			1	12	22.22	1.17	23.39	33	Pass
			1	24	21.95	1.17	23.12	33	Pass
			12	0	21.02	1.17	22.19	33	Pass
			12	6	21.12	1.17	22.29	33	Pass
			12	13	21.07	1.17	22.24	33	Pass
			25	0	21.04	1.17	22.21	33	Pass

LTE Band 38 (Bandwidth: 10MHz)

Channel Bandwidth: 10 MHz									
Modulation	Channel	Frequency (MHz)	RB Configuration		Conducted Average Power [dBm]	Antenna Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	Verdict
			Size	Offset					
QPSK	37800	2575	1	0	23.14	1.17	24.31	33	Pass
			1	24	23.27	1.17	24.44	33	Pass
			1	49	23.14	1.17	24.31	33	Pass
			25	0	22.17	1.17	23.34	33	Pass
			25	12	22.12	1.17	23.29	33	Pass
			25	25	22.20	1.17	23.37	33	Pass
	38000	2595	1	0	23.12	1.17	24.29	33	Pass
			1	24	23.26	1.17	24.43	33	Pass
			1	49	23.09	1.17	24.26	33	Pass
			25	0	22.13	1.17	23.3	33	Pass
			25	12	22.14	1.17	23.31	33	Pass
			25	25	22.14	1.17	23.31	33	Pass
	38200	2615	1	0	23.10	1.17	24.27	33	Pass
			1	24	23.28	1.17	24.45	33	Pass
			1	49	23.09	1.17	24.26	33	Pass
			25	0	22.08	1.17	23.25	33	Pass
			25	12	22.16	1.17	23.33	33	Pass
			25	25	22.20	1.17	23.37	33	Pass
16QAM	37800	2575	1	0	22.30	1.17	23.47	33	Pass
			1	24	22.44	1.17	23.61	33	Pass
			1	49	22.31	1.17	23.48	33	Pass
			25	0	21.12	1.17	22.29	33	Pass
			25	12	21.10	1.17	22.27	33	Pass
			25	25	21.10	1.17	22.27	33	Pass
	38000	2595	1	0	22.26	1.17	23.43	33	Pass
			1	24	22.42	1.17	23.59	33	Pass
			1	49	22.24	1.17	23.41	33	Pass
			25	0	21.09	1.17	22.26	33	Pass
			25	12	21.08	1.17	22.25	33	Pass
			25	25	21.07	1.17	22.24	33	Pass
	38200	2615	1	0	22.21	1.17	23.38	33	Pass
			1	24	22.39	1.17	23.56	33	Pass
			1	49	22.16	1.17	23.33	33	Pass
			25	0	20.97	1.17	22.14	33	Pass
			25	12	21.08	1.17	22.25	33	Pass
			25	25	21.16	1.17	22.33	33	Pass
			50	0	21.15	1.17	22.32	33	Pass

LTE Band 38 (Bandwidth: 15MHz)

Channel Bandwidth: 15 MHz									
Modulation	Channel	Frequency (MHz)	RB Configuration		Conducted Average Power [dBm]	Antenna Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	Verdict
			Size	Offset					
QPSK	37825	2577.5	1	0	23.05	1.17	24.22	33	Pass
			1	37	23.11	1.17	24.28	33	Pass
			1	74	23.04	1.17	24.21	33	Pass
			37	0	22.15	1.17	23.32	33	Pass
			37	18	22.16	1.17	23.33	33	Pass
			37	38	22.17	1.17	23.34	33	Pass
			75	0	22.19	1.17	23.36	33	Pass
	38000	2595	1	0	23.06	1.17	24.23	33	Pass
			1	37	23.15	1.17	24.32	33	Pass
			1	74	23.07	1.17	24.24	33	Pass
			37	0	22.13	1.17	23.3	33	Pass
			37	18	22.15	1.17	23.32	33	Pass
			37	38	22.16	1.17	23.33	33	Pass
			75	0	22.17	1.17	23.34	33	Pass
	38175	2612.5	1	0	23.07	1.17	24.24	33	Pass
			1	37	23.15	1.17	24.32	33	Pass
			1	74	23.03	1.17	24.2	33	Pass
			37	0	22.14	1.17	23.31	33	Pass
			37	18	22.19	1.17	23.36	33	Pass
			37	38	22.25	1.17	23.42	33	Pass
			75	0	22.20	1.17	23.37	33	Pass
16QAM	37825	2577.5	1	0	22.26	1.17	23.43	33	Pass
			1	37	22.33	1.17	23.5	33	Pass
			1	74	22.25	1.17	23.42	33	Pass
			37	0	21.13	1.17	22.3	33	Pass
			37	18	21.12	1.17	22.29	33	Pass
			37	38	21.16	1.17	22.33	33	Pass
			75	0	21.12	1.17	22.29	33	Pass
	38000	2595	1	0	22.30	1.17	23.47	33	Pass
			1	37	22.39	1.17	23.56	33	Pass
			1	74	22.28	1.17	23.45	33	Pass
			37	0	21.16	1.17	22.33	33	Pass
			37	18	21.18	1.17	22.35	33	Pass
			37	38	21.21	1.17	22.38	33	Pass
			75	0	21.11	1.17	22.28	33	Pass
	38175	2612.5	1	0	22.21	1.17	23.38	33	Pass
			1	37	22.28	1.17	23.45	33	Pass
			1	74	22.11	1.17	23.28	33	Pass
			37	0	21.10	1.17	22.27	33	Pass
			37	18	21.13	1.17	22.3	33	Pass
			37	38	21.19	1.17	22.36	33	Pass
			75	0	21.14	1.17	22.31	33	Pass

LTE Band 38 (Bandwidth: 20MHz)

Channel Bandwidth: 20 MHz									
Modulation	Channel	Frequency (MHz)	RB Configuration		Conducted Average Power [dBm]	Antenna Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	Verdict
			Size	Offset					
QPSK	37850	2580	1	0	22.95	1.17	24.12	33	Pass
			1	49	23.37	1.17	24.54	33	Pass
			1	99	22.98	1.17	24.15	33	Pass
			50	0	22.10	1.17	23.27	33	Pass
			50	25	22.11	1.17	23.28	33	Pass
			50	50	22.10	1.17	23.27	33	Pass
			100	0	22.09	1.17	23.26	33	Pass
	38000	2595	1	0	22.94	1.17	24.11	33	Pass
			1	49	23.32	1.17	24.49	33	Pass
			1	99	22.97	1.17	24.14	33	Pass
			50	0	22.07	1.17	23.24	33	Pass
			50	25	22.12	1.17	23.29	33	Pass
			50	50	22.15	1.17	23.32	33	Pass
			100	0	22.10	1.17	23.27	33	Pass
	38150	2610	1	0	22.86	1.17	24.03	33	Pass
			1	49	23.32	1.17	24.49	33	Pass
			1	99	22.87	1.17	24.04	33	Pass
			50	0	22.01	1.17	23.18	33	Pass
			50	25	22.12	1.17	23.29	33	Pass
			50	50	22.17	1.17	23.34	33	Pass
			100	0	22.08	1.17	23.25	33	Pass
16QAM	37850	2580	1	0	22.01	1.17	23.18	33	Pass
			1	49	22.40	1.17	23.57	33	Pass
			1	99	22.04	1.17	23.21	33	Pass
			50	0	21.07	1.17	22.24	33	Pass
			50	25	21.21	1.17	22.38	33	Pass
			50	50	21.07	1.17	22.24	33	Pass
			100	0	21.07	1.17	22.24	33	Pass
	38000	2595	1	0	22.17	1.17	23.34	33	Pass
			1	49	22.57	1.17	23.74	33	Pass
			1	99	22.25	1.17	23.42	33	Pass
			50	0	21.03	1.17	22.2	33	Pass
			50	25	21.11	1.17	22.28	33	Pass
			50	50	21.15	1.17	22.32	33	Pass
			100	0	21.07	1.17	22.24	33	Pass
	38150	2610	1	0	21.97	1.17	23.14	33	Pass
			1	49	22.38	1.17	23.55	33	Pass
			1	99	22.14	1.17	23.31	33	Pass
			50	0	21.07	1.17	22.24	33	Pass
			50	25	21.10	1.17	22.27	33	Pass
			50	50	21.17	1.17	22.34	33	Pass
			100	0	21.07	1.17	22.24	33	Pass

LTE Band 41 (Bandwidth: 5MHz)

Channel Bandwidth: 5 MHz									
Modulation	Channel	Frequency (MHz)	RB Configuration		Conducted Average Power [dBm]	Antenna Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	Verdict
			Size	Offset					
QPSK	40265	2557.5	1	0	22.94	1.17	24.11	33	Pass
			1	12	23.25	1.17	24.42	33	Pass
			1	24	22.99	1.17	24.16	33	Pass
			12	0	22.01	1.17	23.18	33	Pass
			12	6	22.06	1.17	23.23	33	Pass
			12	13	22.01	1.17	23.18	33	Pass
			25	0	22.03	1.17	23.2	33	Pass
	40740	2605	1	0	23.12	1.17	24.29	33	Pass
			1	12	23.40	1.17	24.57	33	Pass
			1	24	23.12	1.17	24.29	33	Pass
			12	0	22.06	1.17	23.23	33	Pass
			12	6	22.12	1.17	23.29	33	Pass
			12	13	22.10	1.17	23.27	33	Pass
			25	0	22.14	1.17	23.31	33	Pass
	41215	2652.5	1	0	22.97	1.17	24.14	33	Pass
			1	12	23.22	1.17	24.39	33	Pass
			1	24	22.94	1.17	24.11	33	Pass
			12	0	21.93	1.17	23.1	33	Pass
			12	6	21.97	1.17	23.14	33	Pass
			12	13	21.91	1.17	23.08	33	Pass
			25	0	21.96	1.17	23.13	33	Pass
16QAM	40265	2557.5	1	0	22.25	1.17	23.42	33	Pass
			1	12	22.54	1.17	23.71	33	Pass
			1	24	22.32	1.17	23.49	33	Pass
			12	0	21.04	1.17	22.21	33	Pass
			12	6	21.08	1.17	22.25	33	Pass
			12	13	21.05	1.17	22.22	33	Pass
			25	0	21.01	1.17	22.18	33	Pass
	40740	2605	1	0	22.16	1.17	23.33	33	Pass
			1	12	22.42	1.17	23.59	33	Pass
			1	24	22.16	1.17	23.33	33	Pass
			12	0	21.02	1.17	22.19	33	Pass
			12	6	21.10	1.17	22.27	33	Pass
			12	13	21.08	1.17	22.25	33	Pass
			25	0	21.07	1.17	22.24	33	Pass
	41215	2652.5	1	0	21.88	1.17	23.05	33	Pass
			1	12	22.08	1.17	23.25	33	Pass
			1	24	21.85	1.17	23.02	33	Pass
			12	0	20.94	1.17	22.11	33	Pass
			12	6	20.95	1.17	22.12	33	Pass
			12	13	20.89	1.17	22.06	33	Pass
			25	0	20.91	1.17	22.08	33	Pass

LTE Band 41 (Bandwidth: 10MHz)

Channel Bandwidth: 10 MHz										
Modulation	Channel	Frequency (MHz)	RB Configuration		Conducted Average Power [dBm]	Antenna Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	Verdict	
			Size	Offset						
QPSK	40290	2560	1	0	23.04	1.17	24.21	33	Pass	
			1	24	23.22	1.17	24.39	33	Pass	
			1	49	23.06	1.17	24.23	33	Pass	
			25	0	22.12	1.17	23.29	33	Pass	
			25	12	22.10	1.17	23.27	33	Pass	
			25	25	22.12	1.17	23.29	33	Pass	
	40740	2605	1	0	23.10	1.17	24.27	33	Pass	
			1	24	23.26	1.17	24.43	33	Pass	
			1	49	23.07	1.17	24.24	33	Pass	
			25	0	22.13	1.17	23.3	33	Pass	
			25	12	22.13	1.17	23.3	33	Pass	
			25	25	22.16	1.17	23.33	33	Pass	
	41190	2650	1	0	22.97	1.17	24.14	33	Pass	
			1	24	23.12	1.17	24.29	33	Pass	
			1	49	22.96	1.17	24.13	33	Pass	
			25	0	22.04	1.17	23.21	33	Pass	
			25	12	22.04	1.17	23.21	33	Pass	
			25	25	22.04	1.17	23.21	33	Pass	
	16QAM	40290	2560	1	0	22.17	1.17	23.34	33	Pass
				1	24	22.38	1.17	23.55	33	Pass
				1	49	22.23	1.17	23.4	33	Pass
25				0	21.06	1.17	22.23	33	Pass	
25				12	21.00	1.17	22.17	33	Pass	
25				25	21.08	1.17	22.25	33	Pass	
40740		2605	1	0	22.25	1.17	23.42	33	Pass	
			1	24	22.41	1.17	23.58	33	Pass	
			1	49	22.25	1.17	23.42	33	Pass	
			25	0	21.06	1.17	22.23	33	Pass	
			25	12	21.07	1.17	22.24	33	Pass	
			25	25	21.13	1.17	22.3	33	Pass	
41190		2650	1	0	22.15	1.17	23.32	33	Pass	
			1	24	22.31	1.17	23.48	33	Pass	
			1	49	22.10	1.17	23.27	33	Pass	
			25	0	21.04	1.17	22.21	33	Pass	
			25	12	20.97	1.17	22.14	33	Pass	
			25	25	21.01	1.17	22.18	33	Pass	
			50	0	20.99	1.17	22.16	33	Pass	

LTE Band 41 (Bandwidth: 15MHz)

Channel Bandwidth: 15 MHz											
Modulation	Channel	Frequency (MHz)	RB Configuration		Conducted Average Power [dBm]	Antenna Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	Verdict		
			Size	Offset							
QPSK	40315	2562.5	1	0	22.96	1.17	24.13	33	Pass		
			1	24	23.16	1.17	24.33	33	Pass		
			1	49	23.03	1.17	24.2	33	Pass		
			25	0	22.13	1.17	23.3	33	Pass		
			25	12	22.13	1.17	23.3	33	Pass		
			25	25	22.12	1.17	23.29	33	Pass		
	40740	2605	1	0	23.01	1.17	24.18	33	Pass		
			1	24	23.13	1.17	24.3	33	Pass		
			1	49	23.01	1.17	24.18	33	Pass		
			25	0	22.09	1.17	23.26	33	Pass		
			25	12	22.18	1.17	23.35	33	Pass		
			25	25	22.20	1.17	23.37	33	Pass		
	41165	2647.5	1	0	22.21	1.17	23.38	33	Pass		
			1	24	22.92	1.17	24.09	33	Pass		
			1	49	23.04	1.17	24.21	33	Pass		
			1	49	22.88	1.17	24.05	33	Pass		
			25	0	22.06	1.17	23.23	33	Pass		
			25	12	22.07	1.17	23.24	33	Pass		
	16QAM	40315	2562.5	25	25	22.05	1.17	23.22	33	Pass	
				50	0	22.08	1.17	23.25	33	Pass	
				40740	2605	1	0	22.19	1.17	23.36	33
1						24	22.39	1.17	23.56	33	Pass
1						49	22.29	1.17	23.46	33	Pass
25						0	21.15	1.17	22.32	33	Pass
25		12	21.17			1.17	22.34	33	Pass		
25		25	21.17			1.17	22.34	33	Pass		
41165		2647.5	50	0	21.12	1.17	22.29	33	Pass		
			1	0	22.22	1.17	23.39	33	Pass		
			1	24	22.35	1.17	23.52	33	Pass		
			1	49	22.18	1.17	23.35	33	Pass		
			25	0	21.09	1.17	22.26	33	Pass		
			25	12	21.13	1.17	22.3	33	Pass		
41165		2647.5	25	25	21.16	1.17	22.33	33	Pass		
			50	0	21.09	1.17	22.26	33	Pass		
			1	0	22.11	1.17	23.28	33	Pass		
			1	24	22.19	1.17	23.36	33	Pass		
			1	49	22.04	1.17	23.21	33	Pass		
			25	0	21.04	1.17	22.21	33	Pass		
			25	12	21.01	1.17	22.18	33	Pass		
	25		25	20.99	1.17	22.16	33	Pass			
	50		0	20.99	1.17	22.16	33	Pass			

LTE Band 41 (Bandwidth: 20MHz)

Channel Bandwidth: 20 MHz										
Modulation	Channel	Frequency (MHz)	RB Configuration		Conducted Average Power [dBm]	Antenna Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	Verdict	
			Size	Offset						
QPSK	40340	2565	1	0	22.86	1.17	24.03	33	Pass	
			1	49	23.31	1.17	24.48	33	Pass	
			1	99	22.95	1.17	24.12	33	Pass	
			50	0	22.05	1.17	23.22	33	Pass	
			50	25	22.12	1.17	23.29	33	Pass	
			50	50	22.07	1.17	23.24	33	Pass	
	40740	2605	1	0	22.96	1.17	24.13	33	Pass	
			1	49	23.36	1.17	24.53	33	Pass	
			1	99	22.95	1.17	24.12	33	Pass	
			50	0	22.05	1.17	23.22	33	Pass	
			50	25	22.16	1.17	23.33	33	Pass	
			50	50	22.23	1.17	23.4	33	Pass	
	41140	2645	1	0	22.10	1.17	23.27	33	Pass	
			1	0	22.89	1.17	24.06	33	Pass	
			1	49	23.23	1.17	24.4	33	Pass	
			1	99	22.80	1.17	23.97	33	Pass	
			50	0	22.07	1.17	23.24	33	Pass	
			50	25	22.07	1.17	23.24	33	Pass	
	16QAM	40340	2565	50	50	22.00	1.17	23.17	33	Pass
				100	0	22.02	1.17	23.19	33	Pass
				1	0	22.11	1.17	23.28	33	Pass
1				49	22.53	1.17	23.7	33	Pass	
1				99	22.19	1.17	23.36	33	Pass	
50				0	21.08	1.17	22.25	33	Pass	
40740		2605	50	25	21.08	1.17	22.25	33	Pass	
			50	50	21.05	1.17	22.22	33	Pass	
			100	0	21.07	1.17	22.24	33	Pass	
			1	0	22.02	1.17	23.19	33	Pass	
			1	49	22.39	1.17	23.56	33	Pass	
			1	99	22.17	1.17	23.34	33	Pass	
41140		2645	50	0	21.03	1.17	22.2	33	Pass	
			50	25	21.15	1.17	22.32	33	Pass	
			50	50	21.20	1.17	22.37	33	Pass	
			100	0	21.07	1.17	22.24	33	Pass	
			1	0	21.91	1.17	23.08	33	Pass	
			1	49	22.27	1.17	23.44	33	Pass	
41140		2645	1	99	21.82	1.17	22.99	33	Pass	
			50	0	21.05	1.17	22.22	33	Pass	
			50	25	21.03	1.17	22.2	33	Pass	
	50		50	20.98	1.17	22.15	33	Pass		
	100		0	20.99	1.17	22.16	33	Pass		

5.2. Peak to Average Ratio

5.2.1. Test Standard

CFR 47 (FCC) part 24 subpart E, part 27

5.2.2. Test Limit

The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

5.2.3. Test Procedure

A peak to average ratio measurement is performed at the conducted port of the EUT. For WCDMA signals, the spectrum analyzers Complementary Cumulative Distribution Function (CCDF) measurement profile is used to determine the largest deviation between the average and the peak power of the EUT in a given bandwidth. The CCDF curve shows how much time the peak waveform spends at or above a given average power level. The percent of time the signal spends at or above the level defines the probability for that particular power level. For GSM signals, an average and a peak trace are used on a spectrum analyzer to determine the largest deviation between the average and the peak power of the EUT in a bandwidth greater than the emission bandwidth. The traces are generated with the spectrum analyzer set to zero span mode. For LTE operating mode: a. The EUT was connected to spectrum and system simulator via a power divider. b. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer. c. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1%. d. Record the deviation as Peak to Average Ratio.

5.2.4. Test Data

Test Band	Test Mode	Test Channel	Measured[dB]	Limit [dB]	Verdict
GSM1900	GPRS/TM1	1850.2	0.46	<13	PASS
		1880	0.47	<13	PASS
		1909.8	0.59	<13	PASS
GSM1900	EDGE/TM2	1850.2	3.03	<13	PASS
		1880	2.61	<13	PASS
		1909.8	2.53	<13	PASS

Test Band	Test Mode	Test Channel	Measured[dB]	Limit [dB]	Verdict
WCDMA1900	UMTS/TM3	1852.4	2.88	<13	PASS
		1880	2.38	<13	PASS
		1907.6	2.88	<13	PASS

LTE Band 2:

Channel Bandwidth: 1.4 MHz						
Modulation	Test Channel	RB Configuration		Peak-to-Average Ratio (dB)	Limit (dB)	Verdict
		Size	Offset			
QPSK	1850.7	6	0	5.26	<13	PASS
	1880	6	0	4.87	<13	PASS
	1909.3	6	0	5.03	<13	PASS
16QAM	1850.7	6	0	6.19	<13	PASS
	1880	6	0	5.83	<13	PASS
	1909.3	6	0	5.96	<13	PASS

Channel Bandwidth: 3MHz						
Modulation	Test Channel	RB Configuration		Peak-to-Average Ratio (dB)	Limit (dB)	Verdict
		Size	Offset			
QPSK	1851.5	15	0	5.38	<13	PASS
	1880	15	0	5.03	<13	PASS
	1908.5	15	0	5.06	<13	PASS
16QAM	1851.5	15	0	6.35	<13	PASS
	1880	15	0	5.90	<13	PASS
	1908.5	15	0	5.99	<13	PASS

Channel Bandwidth: 5MHz						
Modulation	Test Channel	RB Configuration		Peak-to-Average Ratio (dB)	Limit (dB)	Verdict
		Size	Offset			
QPSK	1852.5	25	0	5.58	<13	PASS
	1880	25	0	5.22	<13	PASS
	1907.5	25	0	5.22	<13	PASS
16QAM	1852.5	25	0	6.31	<13	PASS
	1880	25	0	6.06	<13	PASS
	1907.5	25	0	5.93	<13	PASS

Channel Bandwidth: 10MHz						
Modulation	Test Channel	RB Configuration		Peak-to-Average Ratio (dB)	Limit (dB)	Verdict
		Size	Offset			
QPSK	1855	50	0	5.45	<13	PASS
	1880	50	0	5.32	<13	PASS
	1905	50	0	5.22	<13	PASS
16QAM	1855	50	0	6.38	<13	PASS
	1880	50	0	6.22	<13	PASS
	1905	50	0	6.12	<13	PASS

Channel Bandwidth: 15MHz						
Modulation	Test Channel	RB Configuration		Peak-to-Average Ratio (dB)	Limit (dB)	Verdict
		Size	Offset			
QPSK	1857.5	75	0	5.83	<13	PASS
	1880	75	0	5.96	<13	PASS
	1902.5	75	0	5.87	<13	PASS
16QAM	1857.5	75	0	6.79	<13	PASS
	1880	75	0	6.86	<13	PASS
	1902.5	75	0	6.76	<13	PASS

Channel Bandwidth: 20MHz						
Modulation	Test Channel	RB Configuration		Peak-to-Average Ratio (dB)	Limit (dB)	Verdict
		Size	Offset			
QPSK	1860	100	0	6.44	<13	PASS
	1880	100	0	6.54	<13	PASS
	1900	100	0	6.31	<13	PASS
16QAM	1860	100	0	7.18	<13	PASS
	1880	100	0	7.18	<13	PASS
	1900	100	0	7.08	<13	PASS

LTE Band 4:

Channel Bandwidth: 1.4 MHz						
Modulation	Test Channel	RB Configuration		Peak-to-Average Ratio (dB)	Limit (dB)	Verdict
		Size	Offset			
QPSK	1710.7	6	0	4.49	<13	PASS
	1745	6	0	4.20	<13	PASS
	1779.3	6	0	4.01	<13	PASS
16QAM	1710.7	6	0	5.51	<13	PASS
	1745	6	0	5.26	<13	PASS
	1779.3	6	0	5.00	<13	PASS

Channel Bandwidth: 3MHz						
Modulation	Test Channel	RB Configuration		Peak-to-Average Ratio (dB)	Limit (dB)	Verdict
		Size	Offset			
QPSK	1711.5	15	0	4.65	<13	PASS
	1745	15	0	4.46	<13	PASS
	1778.5	15	0	4.13	<13	PASS
16QAM	1711.5	15	0	5.61	<13	PASS
	1745	15	0	5.38	<13	PASS
	1778.5	15	0	5.06	<13	PASS

Channel Bandwidth: 5MHz						
Modulation	Test Channel	RB Configuration		Peak-to-Average Ratio (dB)	Limit (dB)	Verdict
		Size	Offset			
QPSK	1712.5	25	0	4.97	<13	PASS
	1745	25	0	4.74	<13	PASS
	1777.5	25	0	4.49	<13	PASS
16QAM	1712.5	25	0	5.77	<13	PASS
	1745	25	0	5.58	<13	PASS
	1777.5	25	0	5.35	<13	PASS

Channel Bandwidth: 10MHz						
Modulation	Test Channel	RB Configuration		Peak-to-Average Ratio (dB)	Limit (dB)	Verdict
		Size	Offset			
QPSK	1715	50	0	5.13	<13	PASS
	1745	50	0	5.00	<13	PASS
	1775	50	0	4.81	<13	PASS
16QAM	1715	50	0	6.09	<13	PASS
	1745	50	0	5.96	<13	PASS
	1775	50	0	5.74	<13	PASS

Channel Bandwidth: 15MHz						
Modulation	Test Channel	RB Configuration		Peak-to-Average Ratio (dB)	Limit (dB)	Verdict
		Size	Offset			
QPSK	1717.5	75	0	5.83	<13	PASS
	1745	75	0	5.90	<13	PASS
	1772.5	75	0	5.80	<13	PASS
16QAM	1717.5	75	0	6.79	<13	PASS
	1745	75	0	6.86	<13	PASS
	1772.5	75	0	6.76	<13	PASS

Channel Bandwidth: 20MHz						
Modulation	Test Channel	RB Configuration		Peak-to-Average Ratio (dB)	Limit (dB)	Verdict
		Size	Offset			
QPSK	1720	100	0	6.54	<13	PASS
	1745	100	0	6.51	<13	PASS
	1770	100	0	6.44	<13	PASS
16QAM	1720	100	0	7.21	<13	PASS
	1745	100	0	7.15	<13	PASS
	1770	100	0	7.12	<13	PASS

LTE Band 5:

Channel Bandwidth: 1.4 MHz						
Modulation	Test Channel	RB Configuration		Peak-to-Average Ratio (dB)	Limit (dB)	Verdict
		Size	Offset			
QPSK	824.7	6	0	4.91	<13	PASS
	836.5	6	0	5.29	<13	PASS
	848.3	6	0	4.75	<13	PASS
16QAM	824.7	6	0	5.66	<13	PASS
	836.5	6	0	5.99	<13	PASS
	848.3	6	0	5.54	<13	PASS

Channel Bandwidth: 3MHz						
Modulation	Test Channel	RB Configuration		Peak-to-Average Ratio (dB)	Limit (dB)	Verdict
		Size	Offset			
QPSK	825.5	15	0	4.83	<13	PASS
	836.5	15	0	5.23	<13	PASS
	847.5	15	0	4.80	<13	PASS
16QAM	825.5	15	0	5.76	<13	PASS
	836.5	15	0	6.15	<13	PASS
	847.5	15	0	5.70	<13	PASS

Channel Bandwidth: 5MHz						
Modulation	Test Channel	RB Configuration		Peak-to-Average Ratio (dB)	Limit (dB)	Verdict
		Size	Offset			
QPSK	826.5	25	0	4.7	<13	PASS
	836.5	25	0	4.82	<13	PASS
	846.5	25	0	4.57	<13	PASS
16QAM	826.5	25	0	5.52	<13	PASS
	836.5	25	0	5.54	<13	PASS
	846.5	25	0	5.45	<13	PASS

Channel Bandwidth: 10MHz						
Modulation	Test Channel	RB Configuration		Peak-to-Average Ratio (dB)	Limit (dB)	Verdict
		Size	Offset			
QPSK	829	50	0	4.87	<13	PASS
	836.5	50	0	5.20	<13	PASS
	844	50	0	4.81	<13	PASS
16QAM	829	50	0	5.68	<13	PASS
	836.5	50	0	5.97	<13	PASS
	844	50	0	5.66	<13	PASS

LTE Band 7:

Channel Bandwidth: 5MHz						
Modulation	Test Channel	RB Configuration		Peak-to-Average Ratio (dB)	Limit (dB)	Verdict
		Size	Offset			
QPSK	2502.5	25	0	4.01	<13	PASS
	2535	25	0	3.88	<13	PASS
	2567.5	25	0	4.42	<13	PASS
16QAM	2502.5	25	0	4.81	<13	PASS
	2535	25	0	4.84	<13	PASS
	2567.5	25	0	5.38	<13	PASS

Channel Bandwidth: 10MHz						
Modulation	Test Channel	RB Configuration		Peak-to-Average Ratio (dB)	Limit (dB)	Verdict
		Size	Offset			
QPSK	2505	50	0	4.71	<13	PASS
	2535	50	0	4.78	<13	PASS
	2565	50	0	4.97	<13	PASS
16QAM	2505	50	0	5.58	<13	PASS
	2535	50	0	5.64	<13	PASS
	2565	50	0	5.83	<13	PASS

Channel Bandwidth: 15MHz						
Modulation	Test Channel	RB Configuration		Peak-to-Average Ratio (dB)	Limit (dB)	Verdict
		Size	Offset			
QPSK	2507.5	75	0	5.87	<13	PASS
	2535	75	0	5.90	<13	PASS
	2562.5	75	0	5.83	<13	PASS
16QAM	2507.5	75	0	6.86	<13	PASS
	2535	75	0	6.83	<13	PASS
	2562.5	75	0	6.83	<13	PASS

Channel Bandwidth: 20MHz						
Modulation	Test Channel	RB Configuration		Peak-to-Average Ratio (dB)	Limit (dB)	Verdict
		Size	Offset			
QPSK	2510	100	0	6.63	<13	PASS
	2535	100	0	6.54	<13	PASS
	2560	100	0	6.54	<13	PASS
16QAM	2510	100	0	7.12	<13	PASS
	2535	100	0	7.08	<13	PASS
	2560	100	0	7.12	<13	PASS

LTE Band 12:

Channel Bandwidth: 1.4MHz						
Modulation	Test Channel	RB Configuration		Peak-to-Average Ratio (dB)	Limit (dB)	Verdict
		Size	Offset			
QPSK	699.7	6	0	4.10	<13	PASS
	707.5	6	0	4.70	<13	PASS
	715.3	6	0	3.94	<13	PASS
16QAM	699.7	6	0	5.17	<13	PASS
	707.5	6	0	5.72	<13	PASS
	715.3	6	0	5.03	<13	PASS

Channel Bandwidth: 3MHz						
Modulation	Test Channel	RB Configuration		Peak-to-Average Ratio (dB)	Limit (dB)	Verdict
		Size	Offset			
QPSK	700.5	15	0	4.19	<13	PASS
	707.5	15	0	4.75	<13	PASS
	714.5	15	0	4.07	<13	PASS
16QAM	700.5	15	0	5.28	<13	PASS
	707.5	15	0	5.68	<13	PASS
	714.5	15	0	5.06	<13	PASS

Channel Bandwidth: 5MHz						
Modulation	Test Channel	RB Configuration		Peak-to-Average Ratio (dB)	Limit (dB)	Verdict
		Size	Offset			
QPSK	701.5	25	0	4.35	<13	PASS
	707.5	25	0	4.80	<13	PASS
	713.5	25	0	4.23	<13	PASS
16QAM	701.5	25	0	5.28	<13	PASS
	707.5	25	0	5.77	<13	PASS
	713.5	25	0	5.15	<13	PASS

Channel Bandwidth: 10MHz						
Modulation	Test Channel	RB Configuration		Peak-to-Average Ratio (dB)	Limit (dB)	Verdict
		Size	Offset			
QPSK	704	50	0	4.96	<13	PASS
	707.5	50	0	4.99	<13	PASS
	711	50	0	4.87	<13	PASS
16QAM	704	50	0	5.79	<13	PASS
	707.5	50	0	5.84	<13	PASS
	711	50	0	5.71	<13	PASS

LTE Band 13:

Channel Bandwidth: 5MHz						
Modulation	Test Channel	RB Configuration		Peak-to-Average Ratio (dB)	Limit (dB)	Verdict
		Size	Offset			
QPSK	799.5	25	0	4.17	<13	PASS
	782	25	0	4.31	<13	PASS
	784.5	25	0	4.28	<13	PASS
16QAM	799.5	25	0	5.11	<13	PASS
	782	25	0	5.21	<13	PASS
	784.5	25	0	5.25	<13	PASS

Channel Bandwidth: 10MHz						
Modulation	Test Channel	RB Configuration		Peak-to-Average Ratio (dB)	Limit (dB)	Verdict
		Size	Offset			
QPSK	782	50	0	4.74	<13	PASS
16QAM	782	50	0	5.58	<13	PASS

LTE Band 17:

Channel Bandwidth: 5MHz						
Modulation	Test Channel	RB Configuration		Peak-to-Average Ratio (dB)	Limit (dB)	Verdict
		Size	Offset			
QPSK	706.5	25	0	4.81	<13	PASS
	710	25	0	4.56	<13	PASS
	713.5	25	0	4.17	<13	PASS
16QAM	706.5	25	0	5.71	<13	PASS
	710	25	0	5.47	<13	PASS
	713.5	25	0	5.19	<13	PASS

Channel Bandwidth: 10MHz						
Modulation	Test Channel	RB Configuration		Peak-to-Average Ratio (dB)	Limit (dB)	Verdict
		Size	Offset			
QPSK	709	50	0	4.93	<13	PASS
	710	50	0	4.90	<13	PASS
	711	50	0	4.86	<13	PASS
16QAM	709	50	0	5.76	<13	PASS
	710	50	0	5.76	<13	PASS
	711	50	0	5.74	<13	PASS

5.3. Occupied Bandwidth/Emission Bandwidth

5.3.1. Test Standard

FCC: CFR Part 2.1049, CFR Part 22.917, CFR Part 24.238, CRF Part 27

5.3.2. Test Limit

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured under the following conditions as applicable.

(h) Transmitters employing digital modulation techniques-when modulated by an input signal such that its amplitude and symbol rate represent the maximum rated conditions under which the equipment will be operated.

5.3.3. Test Procedure

1. Connect the equipment as shown in the above diagram.
 2. Adjust the settings of the Universal Radio Communication Tester (CMU/CMW) to set the EUT to its maximum power at the required channel.
 3. Set the spectrum analyzer to measure the 99% occupied bandwidth. Record the value.
 4. Set the spectrum analyzer to measure the -26 dB emission bandwidth. Record the value.
 5. Measurements are to be performed with the EUT set to the low, middle and high channel of each frequency band.
- Spectrum analyzer settings: Measurement bandwidth of at least 1% of the occupied bandwidth.

5.3.4. Test Data

Table 7 Occupied Bandwidth Test Data

Test Band	Test Mode	Test Channel	99% OBW (kHz)	26dBc BANDWIDTH (kHz)	Verdict
GSM850	GPRS/TM1	LCH	247.43	313.98	PASS
		MCH	246.50	313.81	PASS
		HCH	245.13	309.53	PASS
	EDGE/TM2	LCH	267.49	338.09	PASS
		MCH	264.10	350.06	PASS
		HCH	260.45	324.62	PASS
GSM1900	GPRS/TM1	LCH	245.19	307.69	PASS
		MCH	246.79	314.10	PASS
		HCH	246.79	309.29	PASS
	EDGE/TM2	LCH	254.81	322.12	PASS
		MCH	253.21	314.10	PASS
		HCH	254.81	309.29	PASS

Table 8 Occupied Bandwidth Test Data

Test Band	Test Mode	Test Channel	99% OBW (kHz)	26dBc BANDWIDTH (kHz)	Verdict
WCDMA850	UMTS/TM3	LCH	4184.3	4742	PASS
		MCH	4185.2	4730	PASS
		HCH	4189.3	4739	PASS
WCDMA1900	UMTS/TM3	LCH	4182.7	4760	PASS
		MCH	4198.7	4776	PASS
		HCH	4198.7	4760	PASS

LTE Band 2:

Channel Bandwidth: 1.4 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	6	0	1.105	1.220	PASS
	MCH	6	0	1.1	1.230	PASS
	HCH	6	0	1.105	1.230	PASS
16QAM	LCH	6	0	1.105	1.245	PASS
	MCH	6	0	1.11	1.235	PASS
	HCH	6	0	1.11	1.240	PASS

Channel Bandwidth: 3 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	15	0	2.7	2.850	PASS
	MCH	15	0	2.7	2.840	PASS
	HCH	15	0	2.7	2.840	PASS
16QAM	LCH	15	0	2.7	2.860	PASS
	MCH	15	0	2.7	2.840	PASS
	HCH	15	0	2.7	2.860	PASS

Channel Bandwidth: 5 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	25	0	4.48	4.710	PASS
	MCH	25	0	4.49	4.720	PASS
	HCH	25	0	4.48	4.750	PASS
16QAM	LCH	25	0	4.48	4.730	PASS
	MCH	25	0	4.48	4.690	PASS
	HCH	25	0	4.49	4.760	PASS

Channel Bandwidth: 10 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	50	0	8.933	9.233	PASS
	MCH	50	0	8.933	9.267	PASS
	HCH	50	0	8.933	9.267	PASS
16QAM	LCH	50	0	8.933	9.267	PASS
	MCH	50	0	8.933	9.267	PASS
	HCH	50	0	8.933	9.267	PASS

Channel Bandwidth: 15 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	75	0	13.35	13.750	PASS
	MCH	75	0	13.4	13.800	PASS
	HCH	75	0	13.4	13.750	PASS
16QAM	LCH	75	0	13.35	13.750	PASS
	MCH	75	0	13.4	13.800	PASS
	HCH	75	0	13.4	13.750	PASS

Channel Bandwidth: 20 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	100	0	17.8	18.267	PASS
	MCH	100	0	17.867	18.333	PASS
	HCH	100	0	17.8	18.267	PASS
16QAM	LCH	100	0	17.8	18.267	PASS
	MCH	100	0	17.867	18.400	PASS
	HCH	100	0	17.8	18.267	PASS

LTE Band 4:

Channel Bandwidth: 1.4 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	6	0	1.1	1.230	PASS
	MCH	6	0	1.11	1.245	PASS
	HCH	6	0	1.11	1.275	PASS
16QAM	LCH	6	0	1.11	1.230	PASS
	MCH	6	0	1.105	1.230	PASS
	HCH	6	0	1.11	1.250	PASS

Channel Bandwidth: 3 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	15	0	2.7	2.850	PASS
	MCH	15	0	2.7	2.850	PASS
	HCH	15	0	2.7	2.850	PASS
16QAM	LCH	15	0	2.7	2.850	PASS
	MCH	15	0	2.7	2.860	PASS
	HCH	15	0	2.7	2.850	PASS

Channel Bandwidth: 5 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	25	0	4.49	4.730	PASS
	MCH	25	0	4.49	4.770	PASS
	HCH	25	0	4.48	4.860	PASS
16QAM	LCH	25	0	4.48	4.700	PASS
	MCH	25	0	4.48	4.790	PASS
	HCH	25	0	4.49	4.830	PASS

Channel Bandwidth: 10 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	50	0	8.967	9.267	PASS
	MCH	50	0	8.933	9.333	PASS
	HCH	50	0	8.933	9.833	PASS
16QAM	LCH	50	0	8.967	9.300	PASS
	MCH	50	0	8.933	9.300	PASS
	HCH	50	0	8.933	9.400	PASS

Channel Bandwidth: 15 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	75	0	13.4	13.800	PASS
	MCH	75	0	13.4	13.900	PASS
	HCH	75	0	13.4	17.750	PASS
16QAM	LCH	75	0	13.4	13.800	PASS
	MCH	75	0	13.4	13.850	PASS
	HCH	75	0	13.4	14.100	PASS

Channel Bandwidth: 20 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	100	0	17.867	18.400	PASS
	MCH	100	0	17.867	18.400	PASS
	HCH	100	0	17.867	19.067	PASS
16QAM	LCH	100	0	17.867	18.333	PASS
	MCH	100	0	17.867	18.400	PASS
	HCH	100	0	17.867	18.467	PASS

LTE Band 5:

Channel Bandwidth: 1.4 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	6	0	1.1058	1.280	PASS
	MCH	6	0	1.1057	1.269	PASS
	HCH	6	0	1.1077	1.291	PASS
16QAM	LCH	6	0	1.1092	1.292	PASS
	MCH	6	0	1.1090	1.286	PASS
	HCH	6	0	1.1057	1.288	PASS

Channel Bandwidth: 3 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	15	0	2.6884	2.856	PASS
	MCH	15	0	2.6890	2.860	PASS
	HCH	15	0	2.6908	2.856	PASS
16QAM	LCH	15	0	2.6879	2.846	PASS
	MCH	15	0	2.6859	2.862	PASS
	HCH	15	0	2.6846	2.865	PASS

Channel Bandwidth: 5 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	25	0	4.4790	4.879	PASS
	MCH	25	0	4.4795	4.891	PASS
	HCH	25	0	4.4727	4.865	PASS
16QAM	LCH	25	0	4.4825	4.891	PASS
	MCH	25	0	4.4826	4.843	PASS
	HCH	25	0	4.4850	4.879	PASS

Channel Bandwidth: 10 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	50	0	8.9141	9.444	PASS
	MCH	50	0	8.9364	9.450	PASS
	HCH	50	0	8.9153	9.426	PASS
16QAM	LCH	50	0	8.9222	9.397	PASS
	MCH	50	0	8.9277	9.426	PASS
	HCH	50	0	8.9112	9.413	PASS

LTE Band 7:

Channel Bandwidth: 5 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	25	0	4.5	5.510	PASS
	MCH	25	0	4.48	4.970	PASS
	HCH	25	0	4.49	4.700	PASS
16QAM	LCH	25	0	4.48	4.820	PASS
	MCH	25	0	4.49	4.870	PASS
	HCH	25	0	4.48	4.740	PASS

Channel Bandwidth: 10 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	50	0	8.967	11.800	PASS
	MCH	50	0	8.933	9.733	PASS
	HCH	50	0	8.933	9.533	PASS
16QAM	LCH	50	0	8.933	9.500	PASS
	MCH	50	0	8.933	9.400	PASS
	HCH	50	0	8.933	9.233	PASS

Channel Bandwidth: 15 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	75	0	13.4	18.650	PASS
	MCH	75	0	13.4	16.400	PASS
	HCH	75	0	13.4	15.550	PASS
16QAM	LCH	75	0	13.4	14.100	PASS
	MCH	75	0	13.4	14.000	PASS
	HCH	75	0	13.4	13.900	PASS

Channel Bandwidth: 20 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	100	0	17.8	18.667	PASS
	MCH	100	0	17.867	18.733	PASS
	HCH	100	0	17.867	18.667	PASS
16QAM	LCH	100	0	17.8	18.400	PASS
	MCH	100	0	17.867	18.400	PASS
	HCH	100	0	17.867	18.400	PASS

LTE Band 12:

Channel Bandwidth: 1.4 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	6	0	1.1024	1.282	PASS
	MCH	6	0	1.1042	1.275	PASS
	HCH	6	0	1.1093	1.284	PASS
16QAM	LCH	6	0	1.1084	1.278	PASS
	MCH	6	0	1.1096	1.289	PASS
	HCH	6	0	1.1102	1.297	PASS

Channel Bandwidth: 3 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	15	0	2.6902	2.867	PASS
	MCH	15	0	2.6920	2.863	PASS
	HCH	15	0	2.6903	2.861	PASS
16QAM	LCH	15	0	2.6908	2.858	PASS
	MCH	15	0	2.6917	2.854	PASS
	HCH	15	0	2.6922	2.862	PASS

Channel Bandwidth: 5 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	25	0	4.4797	4.860	PASS
	MCH	25	0	4.4773	4.885	PASS
	HCH	25	0	4.4770	4.887	PASS
16QAM	LCH	25	0	4.4811	4.840	PASS
	MCH	25	0	4.4804	4.825	PASS
	HCH	25	0	4.4788	4.866	PASS

Channel Bandwidth: 10 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	50	0	8.9460	9.497	PASS
	MCH	50	0	8.9197	9.414	PASS
	HCH	50	0	8.9186	9.371	PASS
16QAM	LCH	50	0	8.9403	9.469	PASS
	MCH	50	0	8.9262	9.398	PASS
	HCH	50	0	8.9102	9.401	PASS

LTE Band 13:

Channel Bandwidth: 5 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	25	0	4.4834	4.918	PASS
	MCH	25	0	4.4804	4.918	PASS
	HCH	25	0	4.4775	4.851	PASS
16QAM	LCH	25	0	4.4827	4.896	PASS
	MCH	25	0	4.4850	4.883	PASS
	HCH	25	0	4.4777	4.816	PASS

Channel Bandwidth: 10 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	---	50	0	8.9348	9.387	PASS
16QAM	---	50	0	8.9252	9.373	PASS

LTE Band 17:

Channel Bandwidth: 5 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	25	0	4.4738	4.928	PASS
	MCH	25	0	4.4709	4.919	PASS
	HCH	25	0	4.4761	4.870	PASS
16QAM	LCH	25	0	4.4837	4.865	PASS
	MCH	25	0	4.4796	4.868	PASS
	HCH	25	0	4.4758	4.823	PASS

Channel Bandwidth: 10 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	50	0	8.9349	9.384	PASS
	MCH	50	0	8.9191	9.410	PASS
	HCH	50	0	8.9028	9.333	PASS
16QAM	LCH	50	0	8.9260	9.398	PASS
	MCH	50	0	8.9040	9.429	PASS
	HCH	50	0	8.9026	9.413	PASS

TE Band 38:

Channel Bandwidth: 5 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	25	0	4.48	4.840	PASS
	MCH	25	0	4.49	4.760	PASS
	HCH	25	0	4.49	4.880	PASS
16QAM	LCH	25	0	4.47	4.670	PASS
	MCH	25	0	4.48	4.800	PASS
	HCH	25	0	4.48	4.690	PASS

Channel Bandwidth: 10 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	50	0	8.933	9.300	PASS
	MCH	50	0	8.933	9.267	PASS
	HCH	50	0	8.933	9.433	PASS
16QAM	LCH	50	0	8.933	9.267	PASS
	MCH	50	0	8.933	9.200	PASS
	HCH	50	0	8.933	9.300	PASS

Channel Bandwidth: 15 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	75	0	13.4	13.800	PASS
	MCH	75	0	13.4	13.850	PASS
	HCH	75	0	13.4	13.950	PASS
16QAM	LCH	75	0	13.4	13.800	PASS
	MCH	75	0	13.4	13.800	PASS
	HCH	75	0	13.4	13.800	PASS

Channel Bandwidth: 20 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	100	0	17.867	18.333	PASS
	MCH	100	0	17.867	18.333	PASS
	HCH	100	0	17.867	18.333	PASS
16QAM	LCH	100	0	17.867	18.333	PASS
	MCH	100	0	17.867	18.333	PASS
	HCH	100	0	17.8	18.333	PASS

TE Band 41:

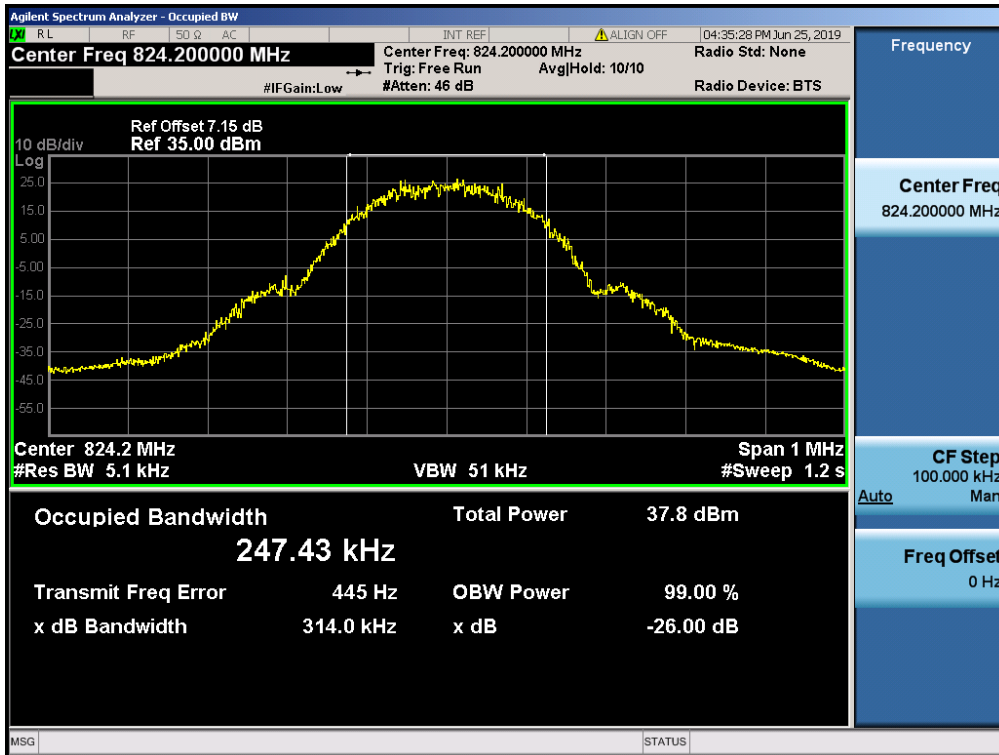
Channel Bandwidth: 5 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	25	0	4.48	4.800	PASS
	MCH	25	0	4.48	4.820	PASS
	HCH	25	0	4.49	4.720	PASS
16QAM	LCH	25	0	4.47	4.670	PASS
	MCH	25	0	4.47	4.670	PASS
	HCH	25	0	4.48	4.860	PASS

Channel Bandwidth: 10 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	50	0	8.933	9.233	PASS
	MCH	50	0	8.933	9.233	PASS
	HCH	50	0	8.933	9.333	PASS
16QAM	LCH	50	0	8.933	9.233	PASS
	MCH	50	0	8.933	9.233	PASS
	HCH	50	0	8.933	9.300	PASS

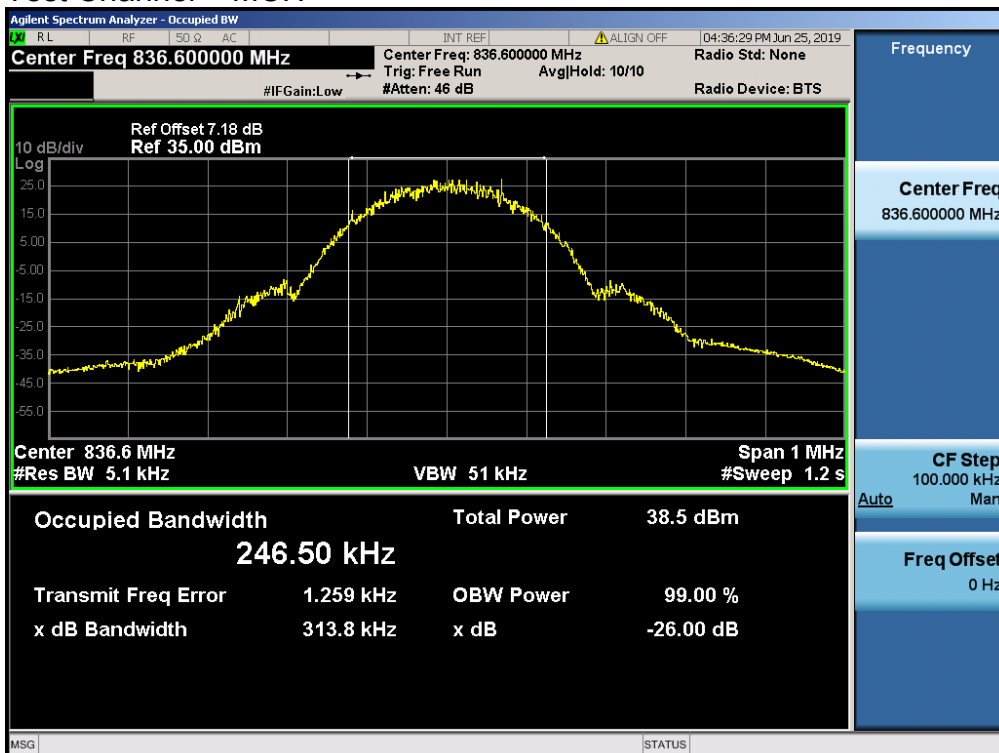
Channel Bandwidth: 15 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	75	0	13.4	13.800	PASS
	MCH	75	0	13.4	13.850	PASS
	HCH	75	0	13.4	14.950	PASS
16QAM	LCH	75	0	13.4	13.750	PASS
	MCH	75	0	13.4	13.800	PASS
	HCH	75	0	13.4	13.850	PASS

Channel Bandwidth: 20 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	100	0	17.867	18.333	PASS
	MCH	100	0	17.867	18.333	PASS
	HCH	100	0	17.867	18.333	PASS
16QAM	LCH	100	0	17.867	18.267	PASS
	MCH	100	0	17.867	18.267	PASS
	HCH	100	0	17.8	18.333	PASS

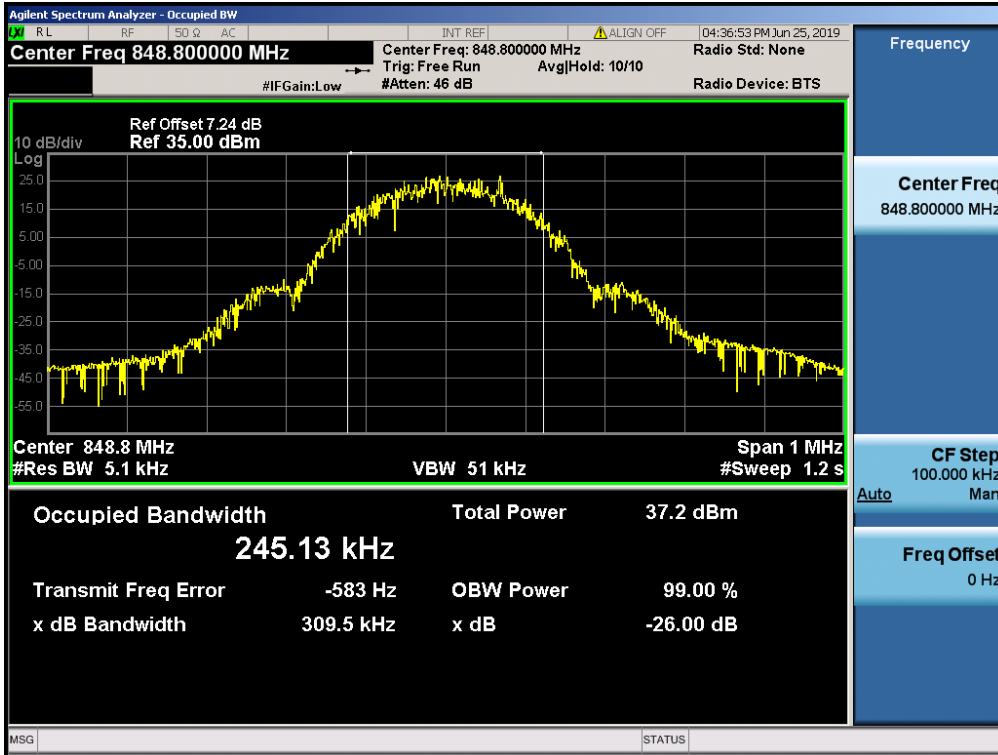
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 Test Mode = GSM/TM1
 Test Channel = LCH



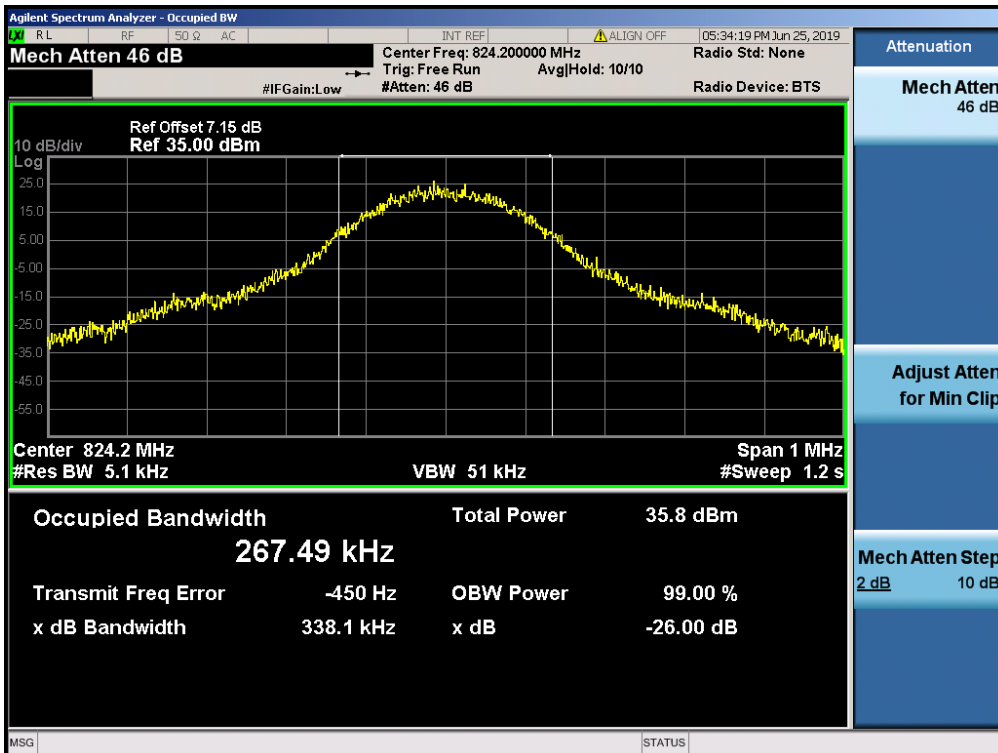
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 Test Mode = GSM /TM1
 Test Channel = MCH



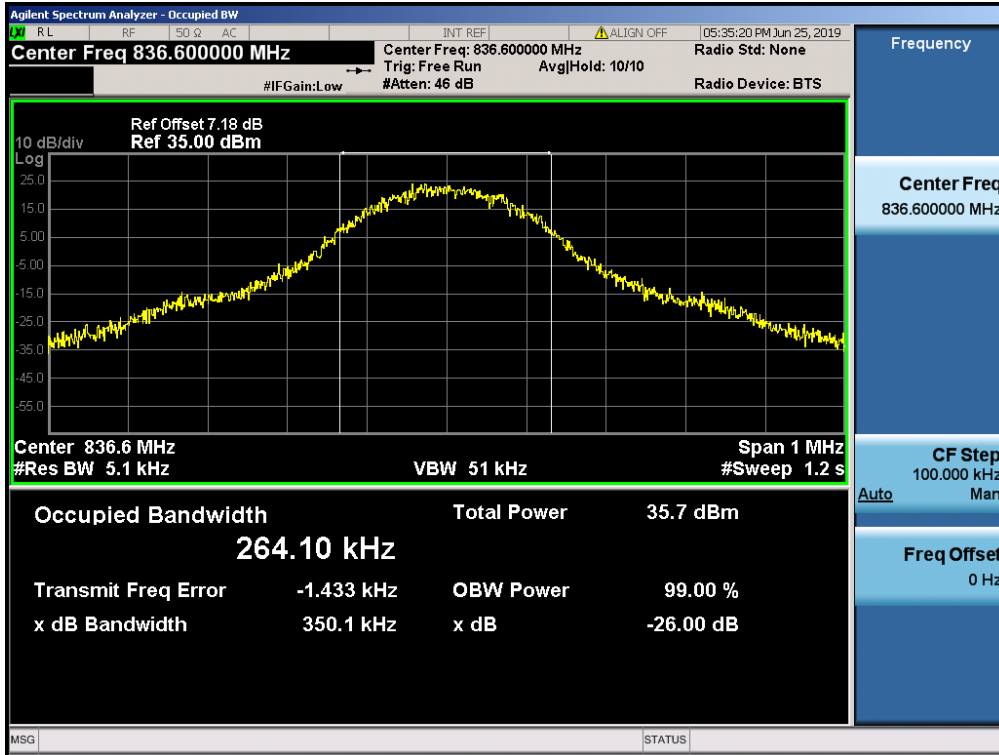
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 Test Mode = GSM /TM1
 Test Channel = HCH



Test Band = GSM850
 Test Mode = EDGE/TM2
 Test Channel = LCH



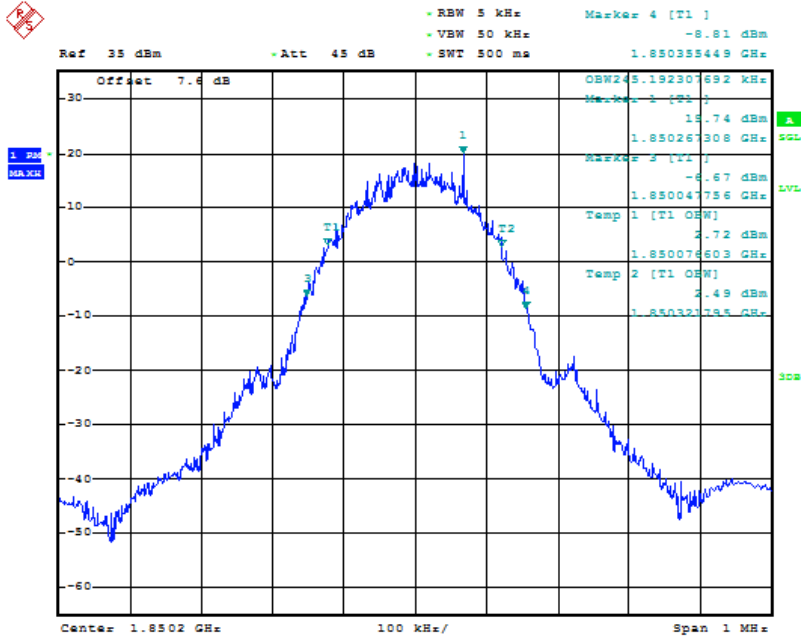
Test Band = GSM850
 Test Mode = EDGE/TM2
 Test Channel = MCH



Test Band = GSM850
 Test Mode = EDGE/TM2
 Test Channel = HCH

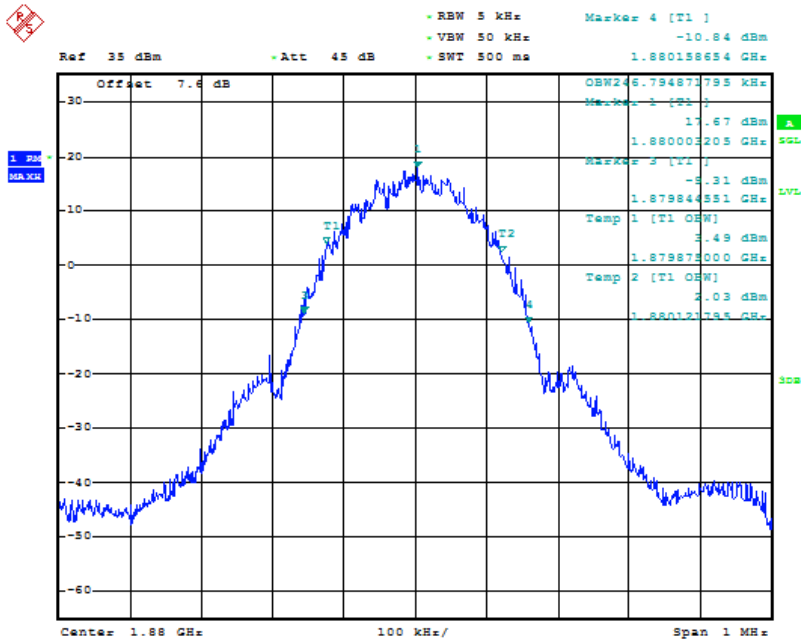


Test Band = GSM1900
 Test Mode = GSM/TM1
 Test Channel = LCH



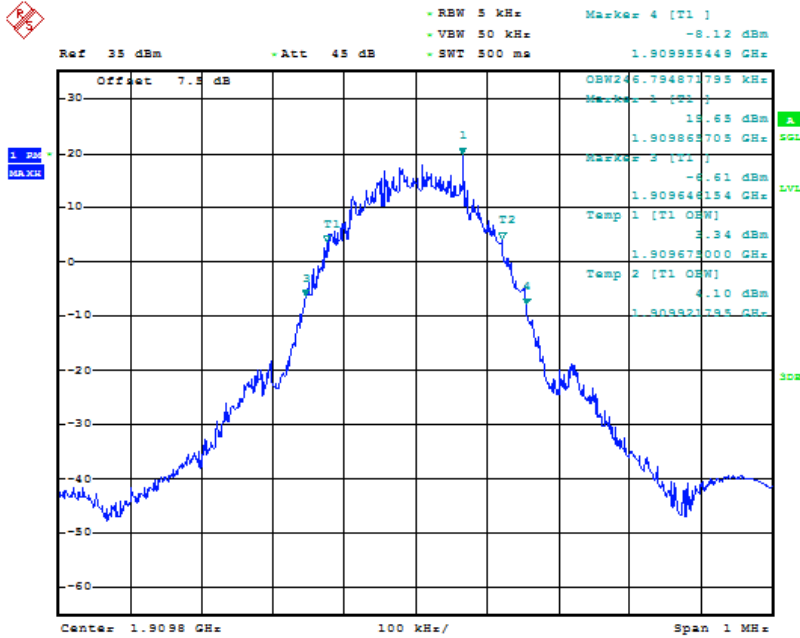
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 Test Mode = GSM/TM1
 Test Channel = MCH



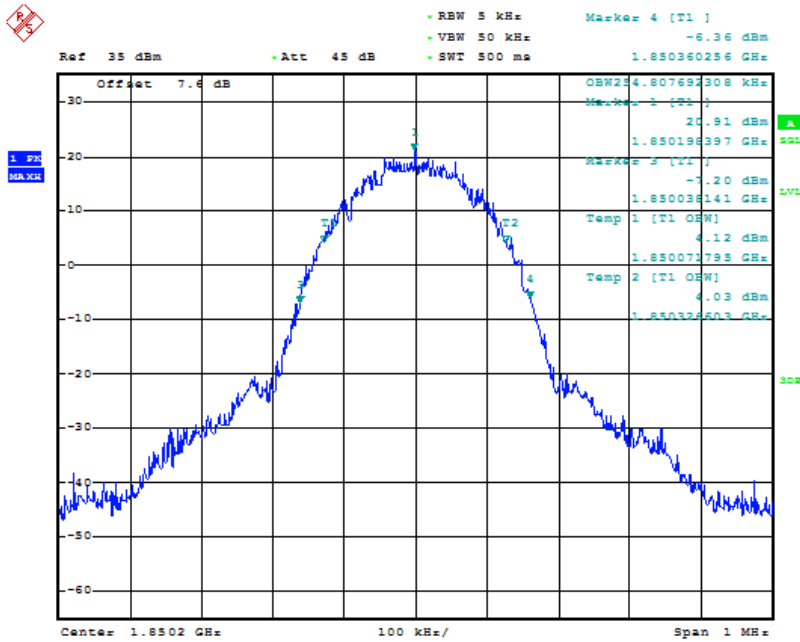
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Test Band = GSM1900
 Test Mode = GSM/TM1
 Test Channel = HCH



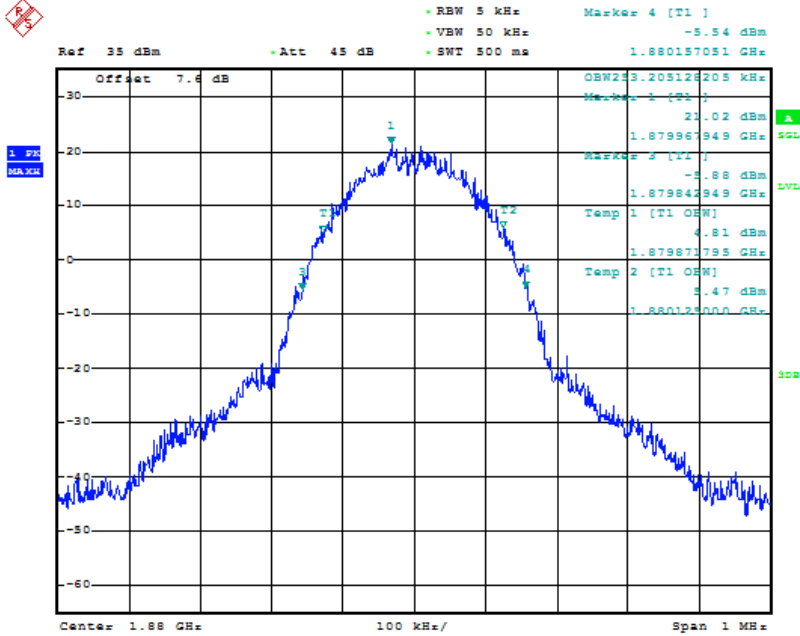
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 Test Mode = EDGE /TM2
 Test Channel = LCH



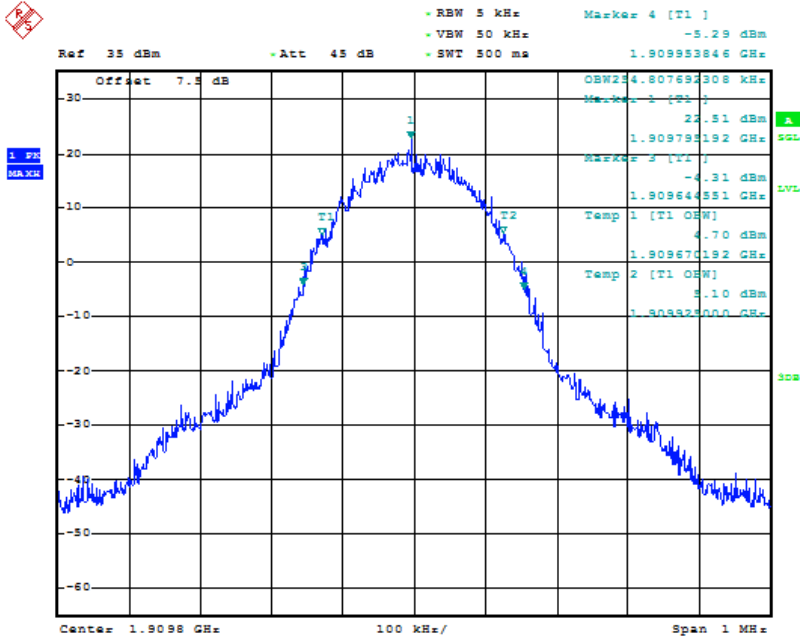
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 Test Mode = EDGE /TM2
 Test Channel = MCH



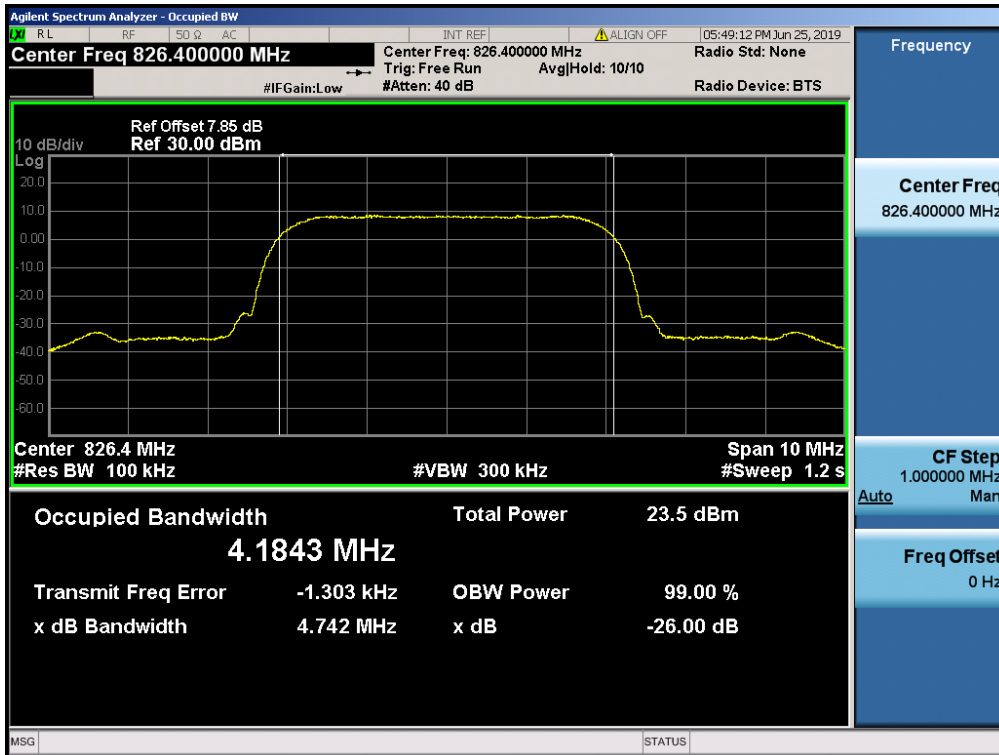
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 Test Mode = EDGE /TM2
 Test Channel = HCH

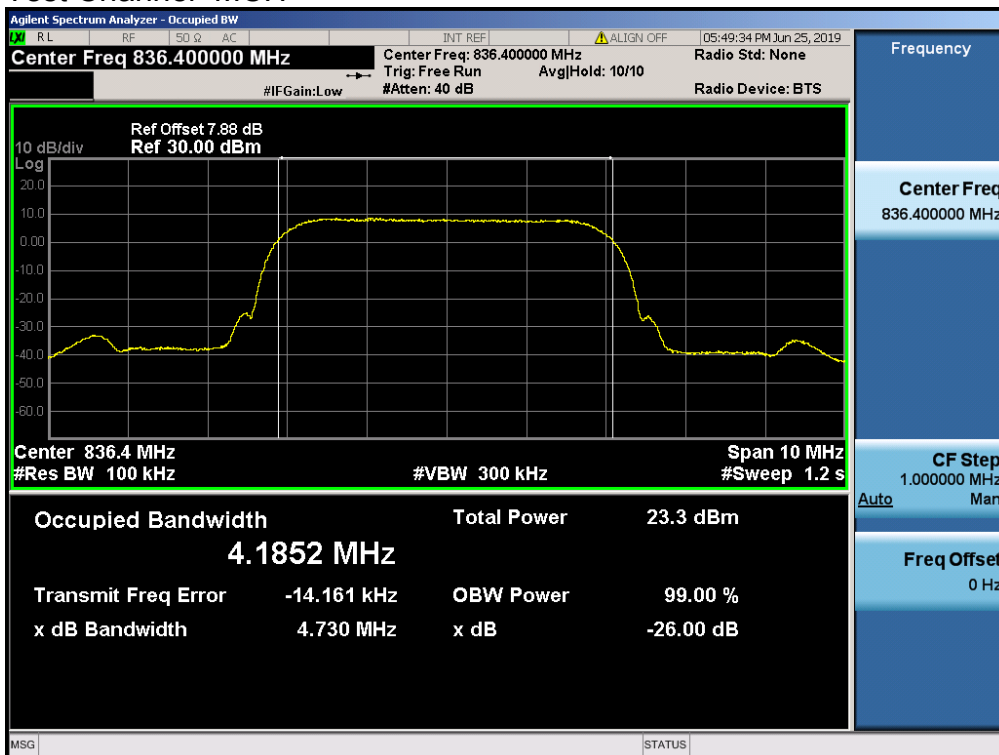


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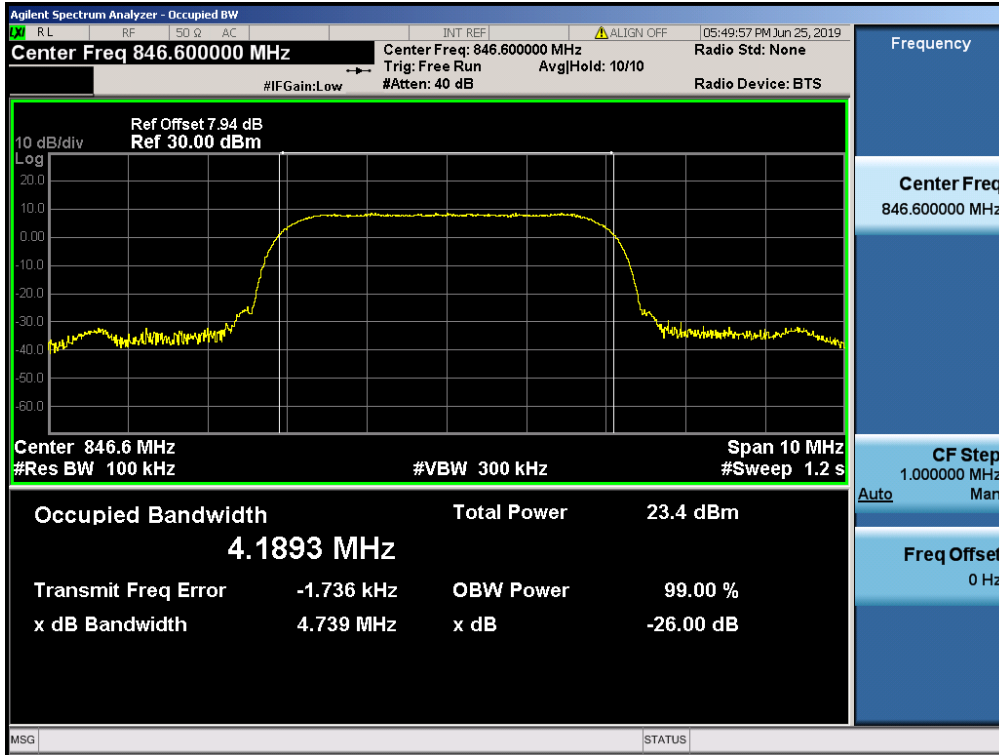
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 Test Mode=UMTS/TM3
 Test Channel=LCH



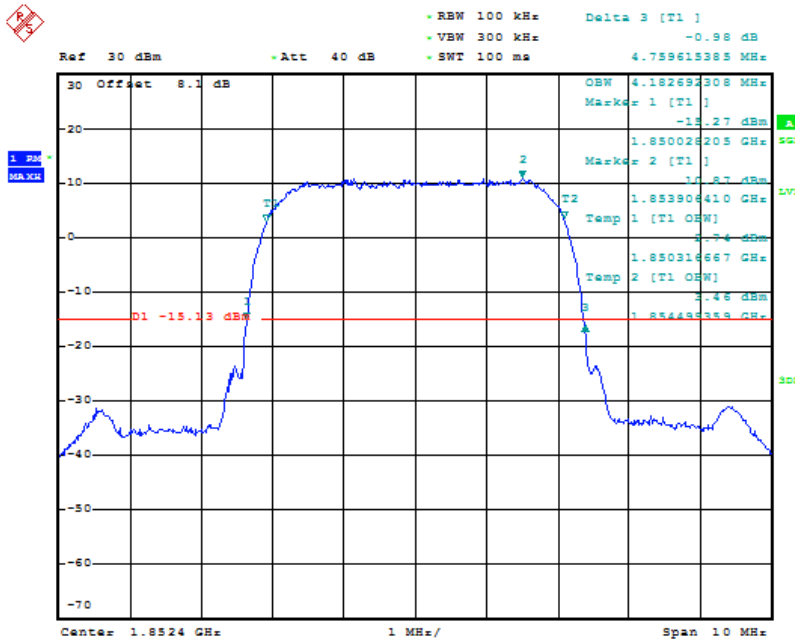
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 Test Mode=UMTS/TM3
 Test Channel=MCH



Test Band=WCDMA850
 Test Mode=UMTS/TM3
 Test Channel=HCH

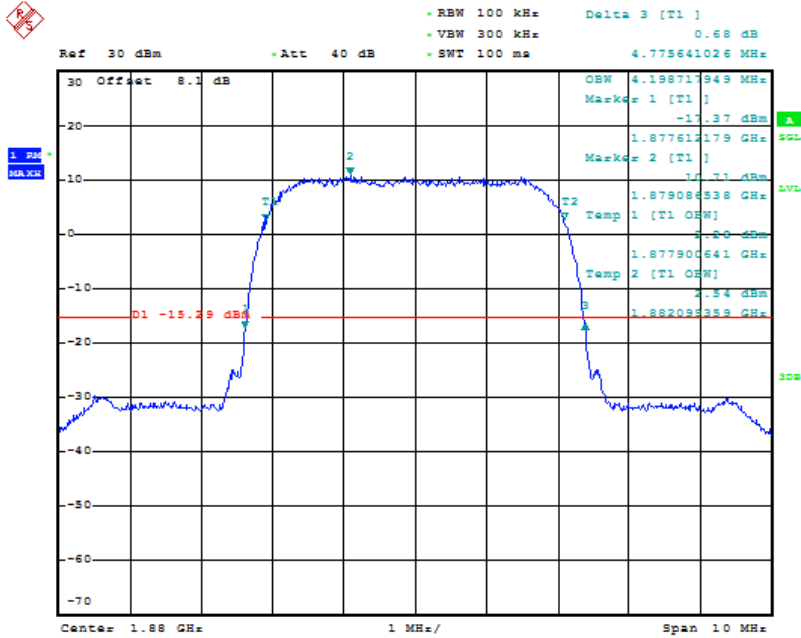


Test Band=WCDMA1900
 Test Mode=UMTS/TM3
 Test Channel=LCH



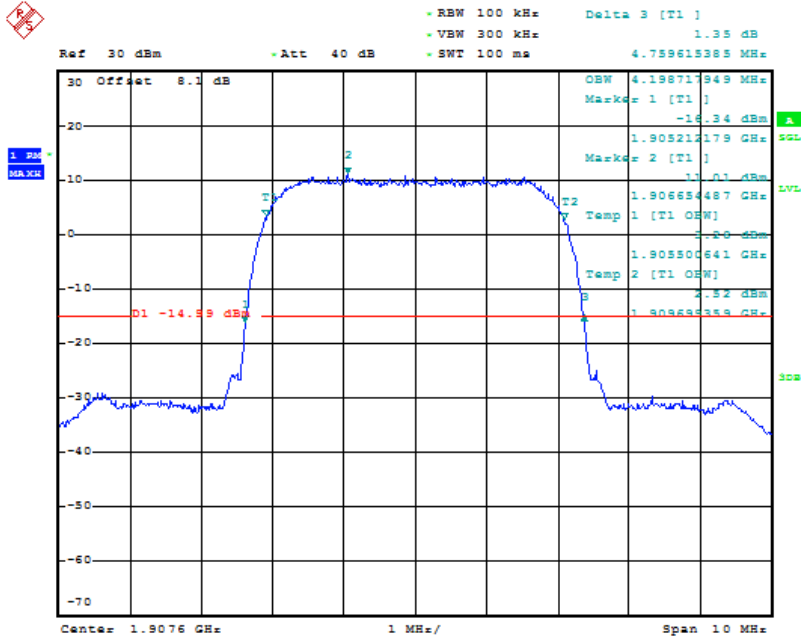
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Test Band=WCDMA1900
 Test Mode=UMTS/TM3
 Test Channel=MCH



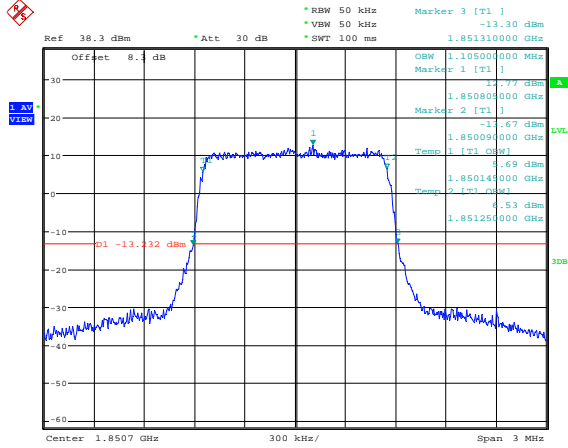
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Test Band=WCDMA1900
 Test Mode=UMTS/TM3
 Test Channel=HCH



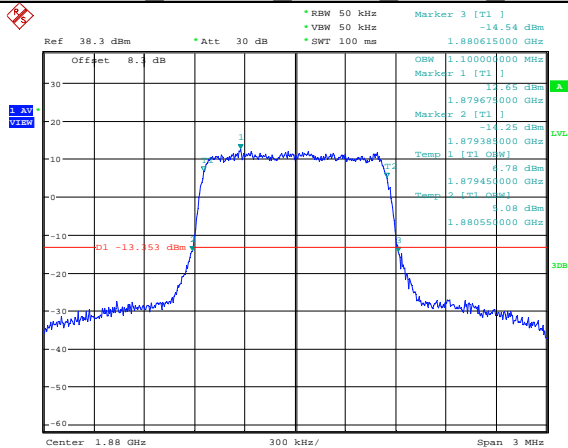
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Band2_1.4MHz_QPSK_18607_6RB#0



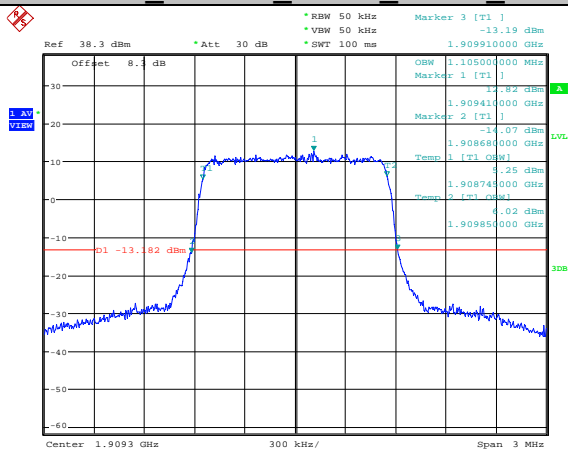
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Band2_1.4MHz_QPSK_18900_6RB#0



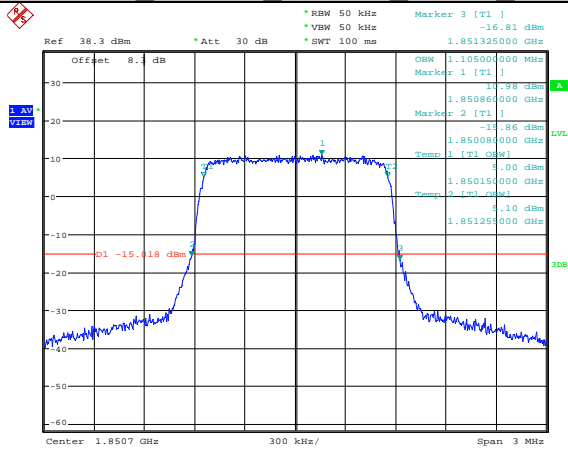
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Band2_1.4MHz_QPSK_19193_6RB#0



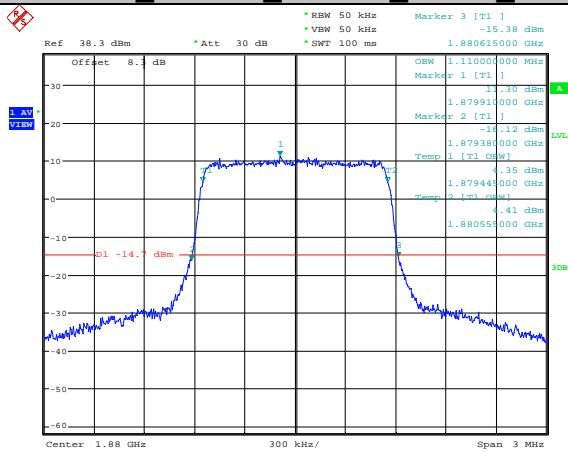
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Band2 1.4MHz 16QAM 18607 6RB#0



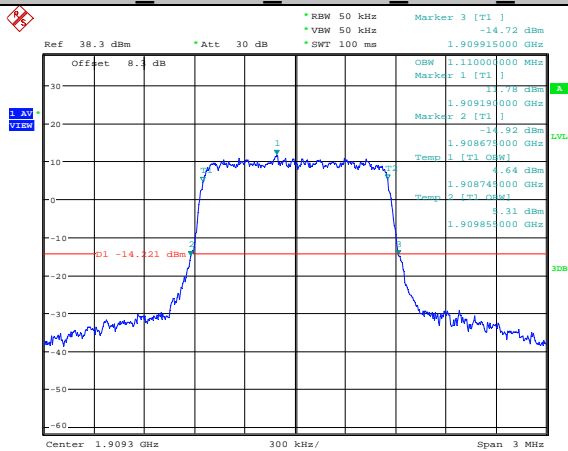
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Band2 1.4MHz 16QAM 18900 6RB#0



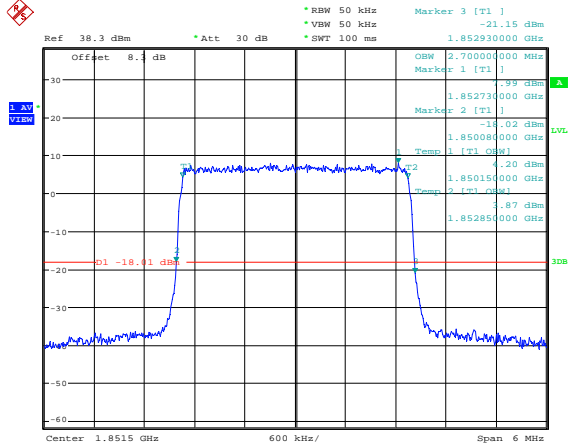
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Band2 1.4MHz 16QAM 19193 6RB#0



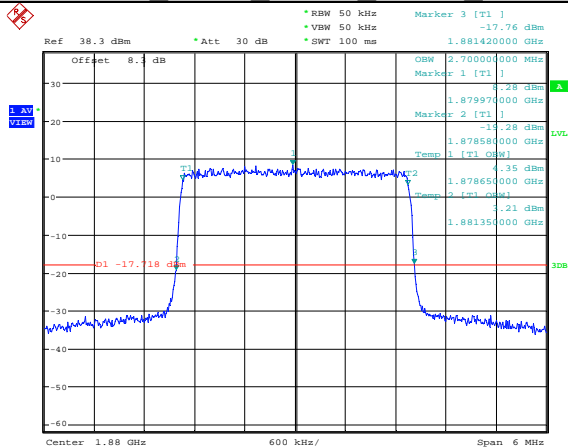
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Band2_3MHz_QPSK_18615_15RB#0



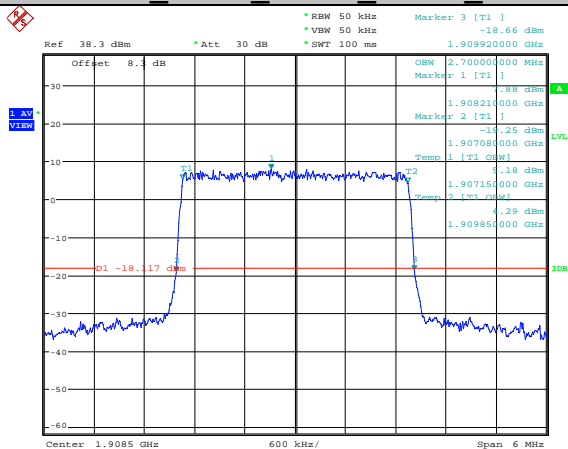
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Band2_3MHz_QPSK_18900_15RB#0



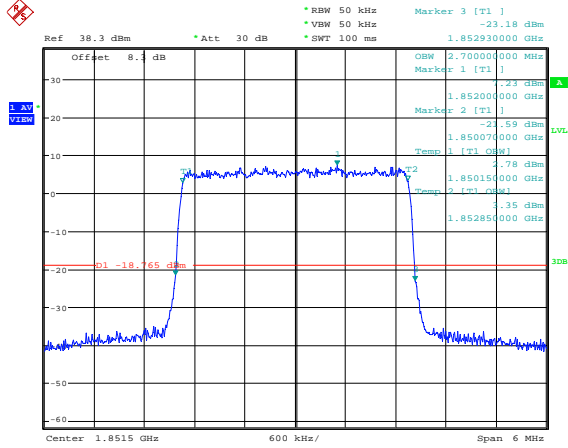
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Band2_3MHz_QPSK_19185_15RB#0



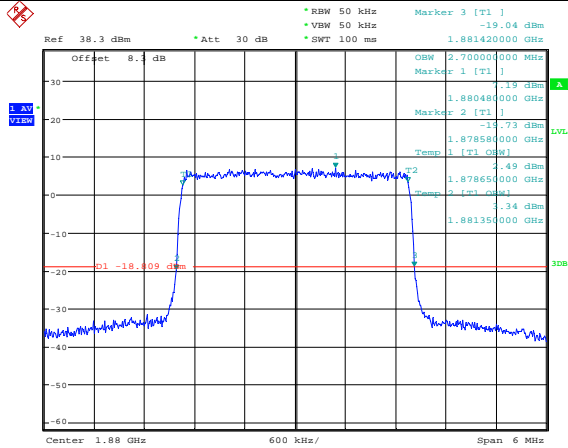
Date: 3.JUL.2019 16:21:57

Band2_3MHz_16QAM_18615_15RB#0



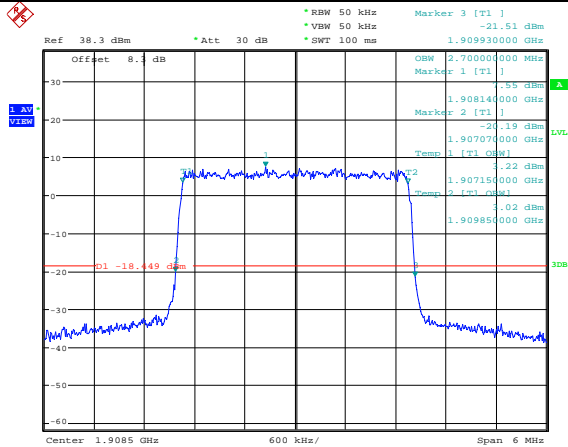
Date: 3.JUL.2019 16:21:23

Band2_3MHz_16QAM_18900_15RB#0



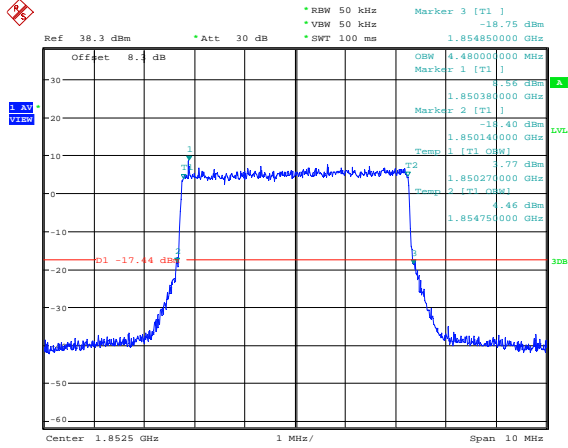
Date: 3.JUL.2019 16:21:45

Band2_3MHz_16QAM_19185_15RB#0



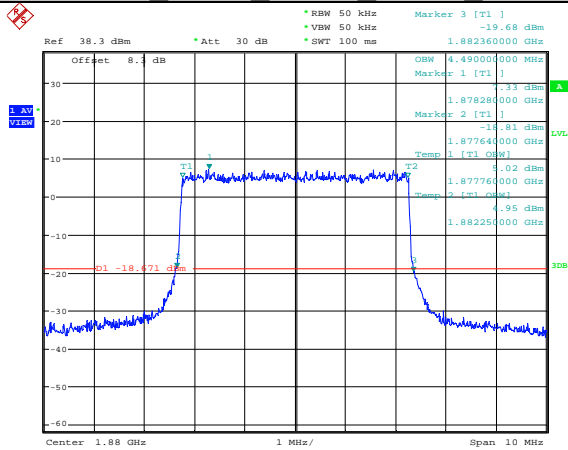
Date: 3.JUL.2019 16:22:07

Band2_5MHz_QPSK_18625_25RB#0



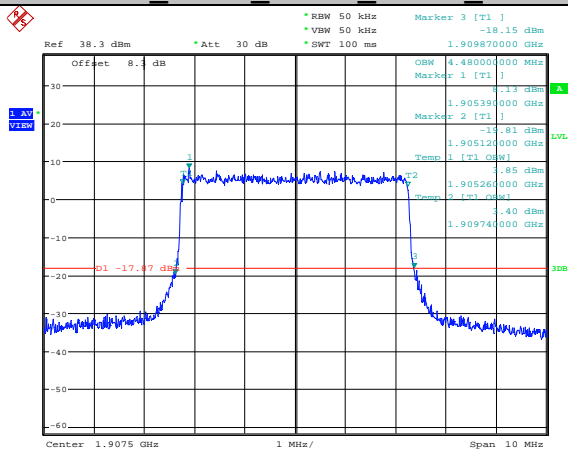
Date: 3.JUL.2019 16:48:53

Band2_5MHz_QPSK_18900_25RB#0



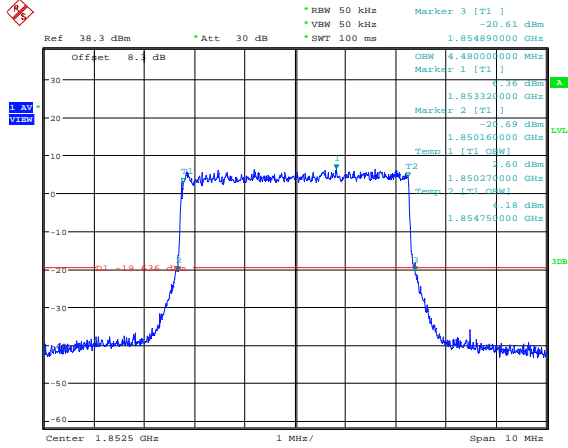
Date: 3.JUL.2019 16:49:29

Band2_5MHz_QPSK_19175_25RB#0



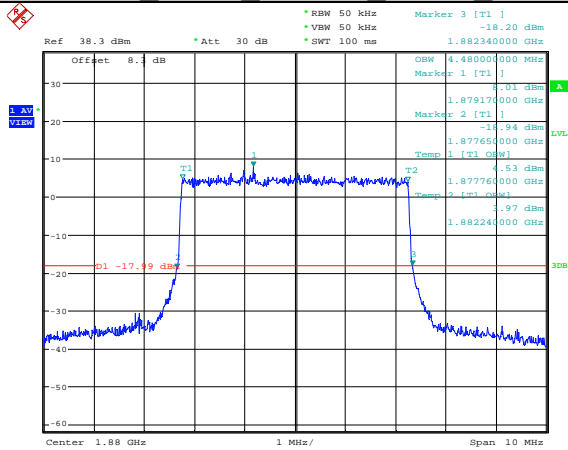
Date: 3.JUL.2019 16:50:05

Band2_5MHz_16QAM_18625_25RB#0



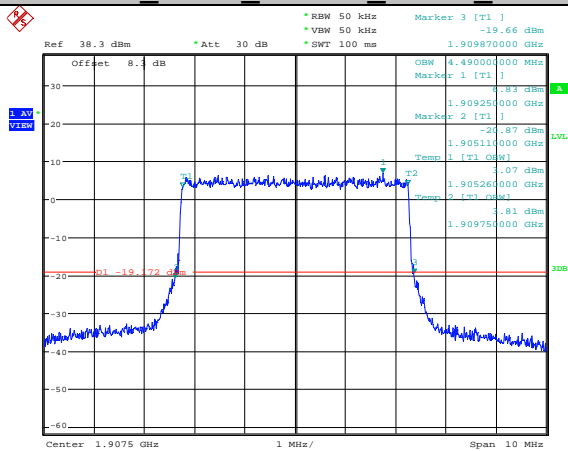
Date: 3.JUL.2019 16:49:10

Band2_5MHz_16QAM_18900_25RB#0



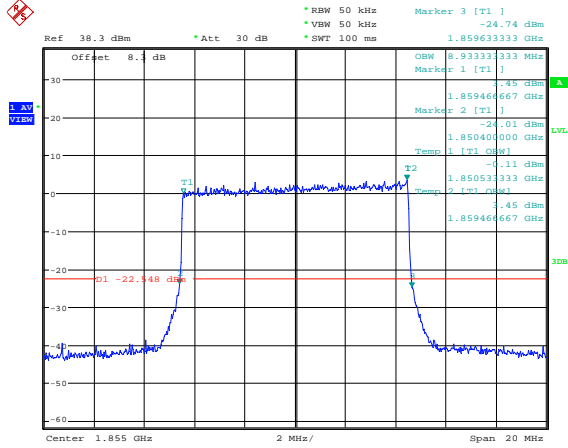
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Band2_5MHz_16QAM_19175_25RB#0



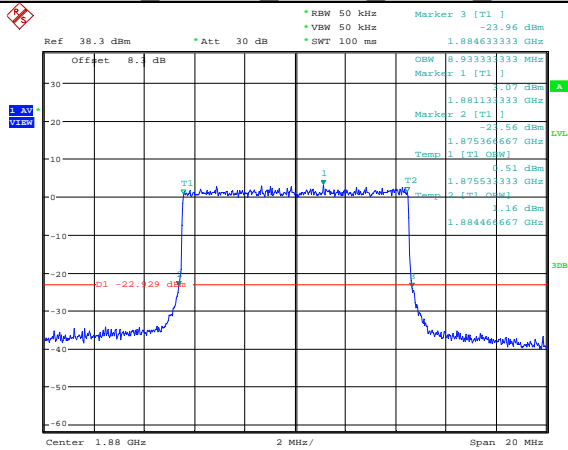
Date: 3.JUL.2019 16:50:22

Band2_10MHz_QPSK_18650_50RB#0



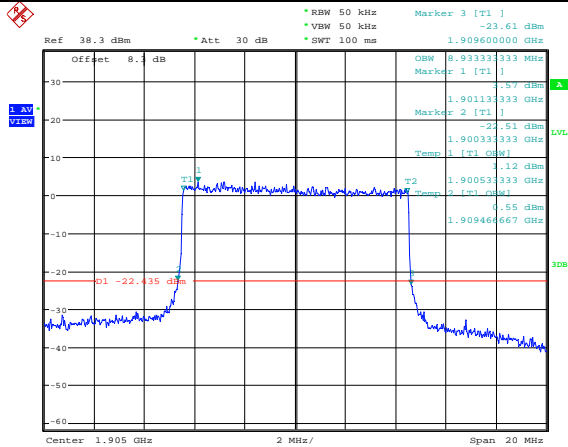
Date: 3.JUL.2019 17:07:47

Band2_10MHz_QPSK_18900_50RB#0



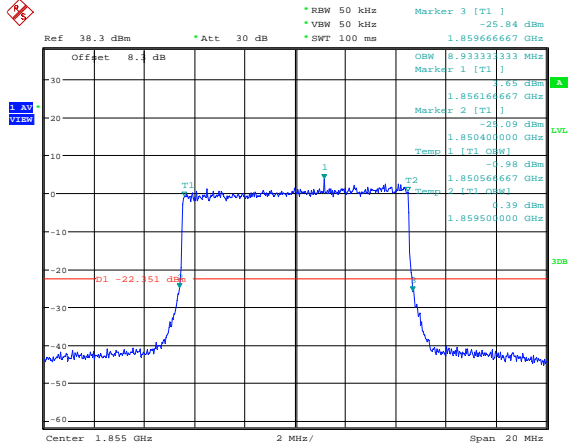
Date: 3.JUL.2019 17:08:09

Band2_10MHz_QPSK_19150_50RB#0



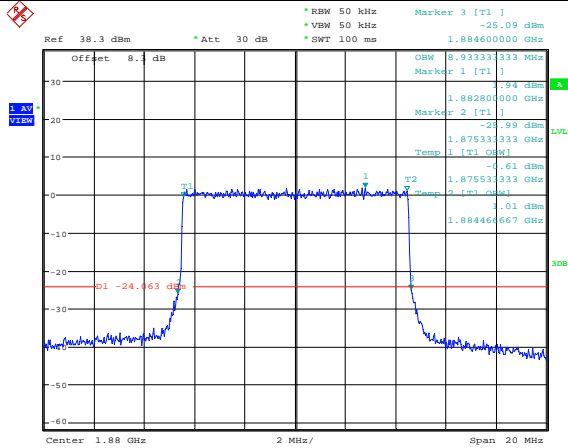
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Band2_10MHz_16QAM_18650_50RB#0



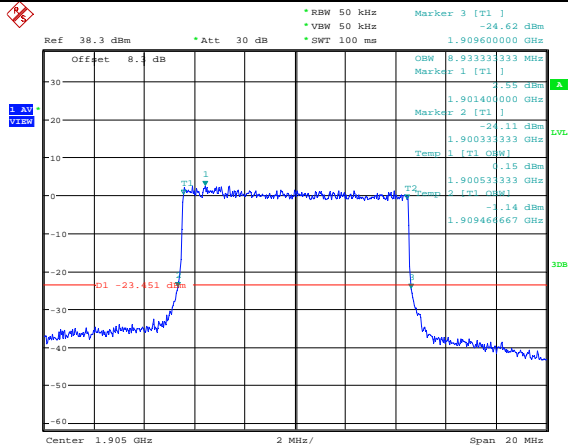
Date: 3.JUL.2019 17:07:57

Band2_10MHz_16QAM_18900_50RB#0



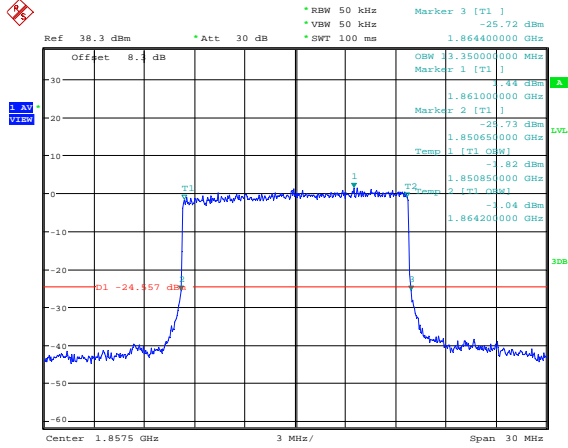
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Band2_10MHz_16QAM_19150_50RB#0



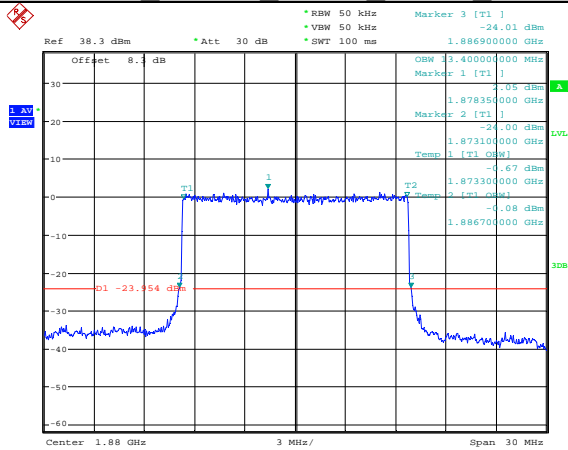
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Band2_15MHz_QPSK_18675_75RB#0



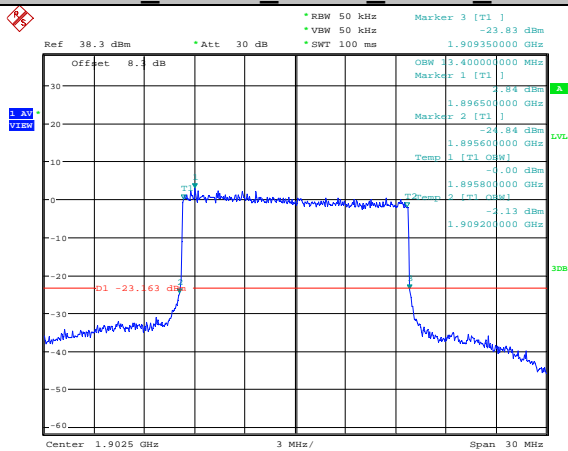
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Band2_15MHz_QPSK_18900_75RB#0



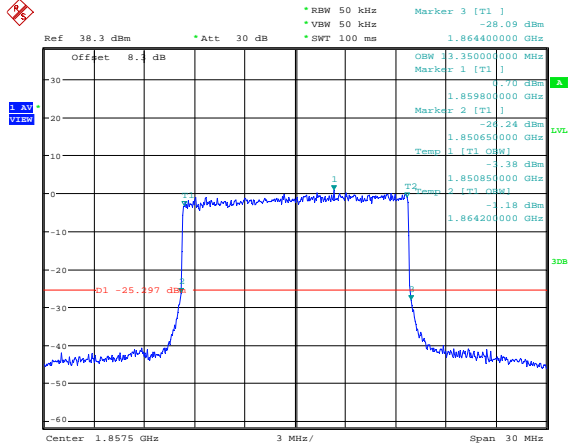
Date: 3.JUL.2019 17:23:00

Band2_15MHz_QPSK_19125_75RB#0



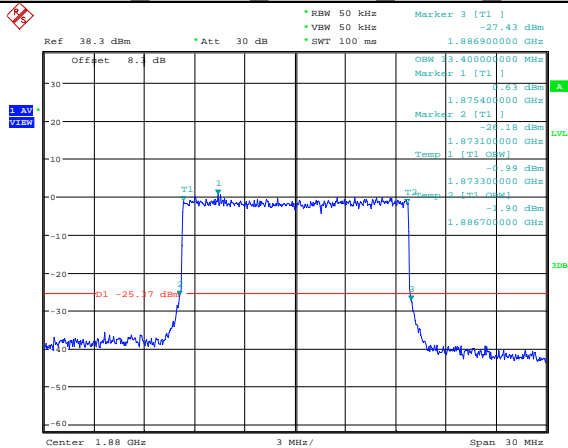
Date: 3.JUL.2019 17:23:23

Band2_15MHz_16QAM_18675_75RB#0



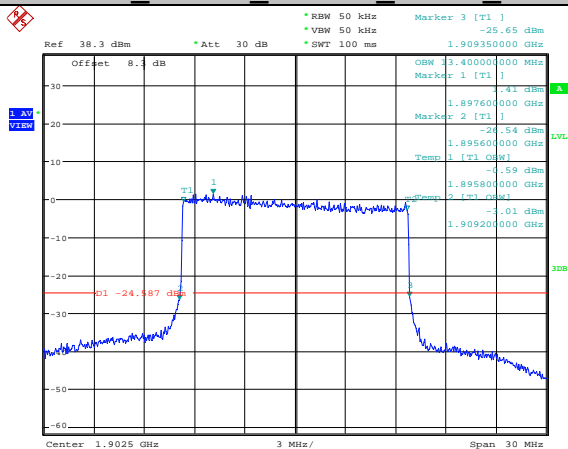
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Band2_15MHz_16QAM_18900_75RB#0



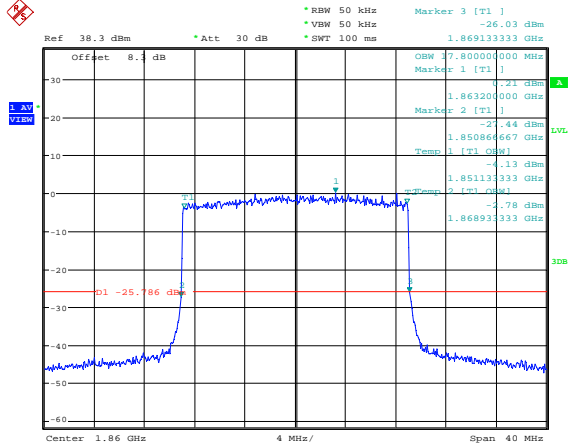
Date: 3.JUL.2019 17:23:10

Band2_15MHz_16QAM_19125_75RB#0



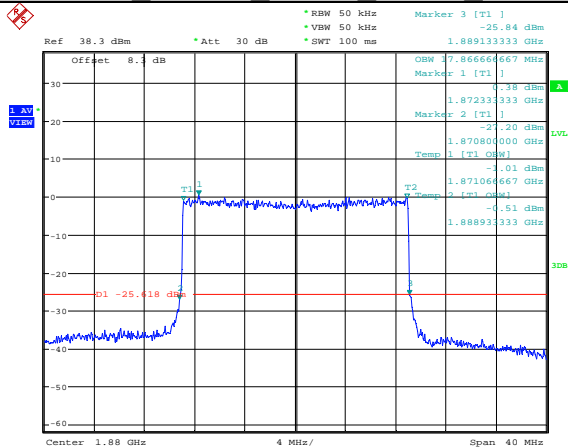
Date: 3.JUL.2019 17:23:33

Band2_20MHz_QPSK_18700_100RB#0



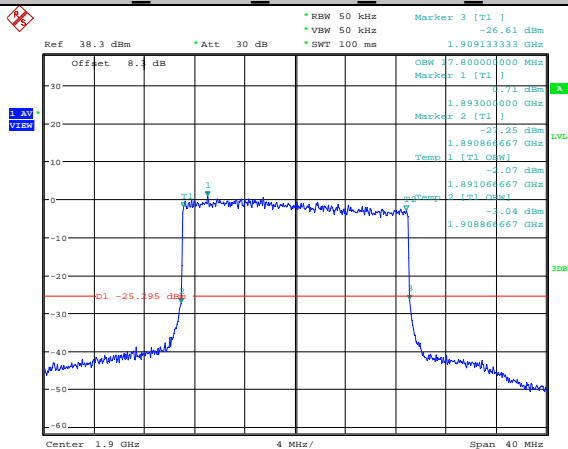
Date: 3.JUL.2019 17:38:14

Band2_20MHz_QPSK_18900_100RB#0



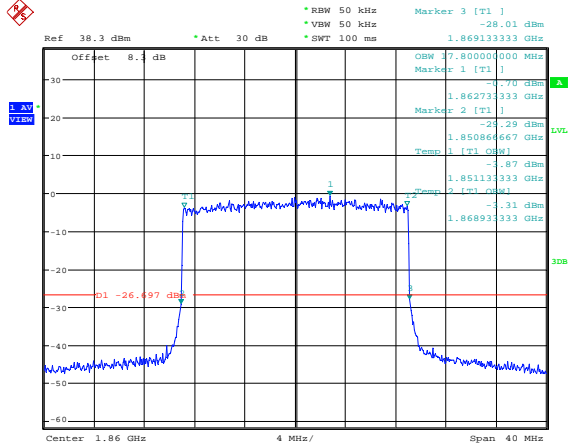
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Band2_20MHz_QPSK_19100_100RB#0



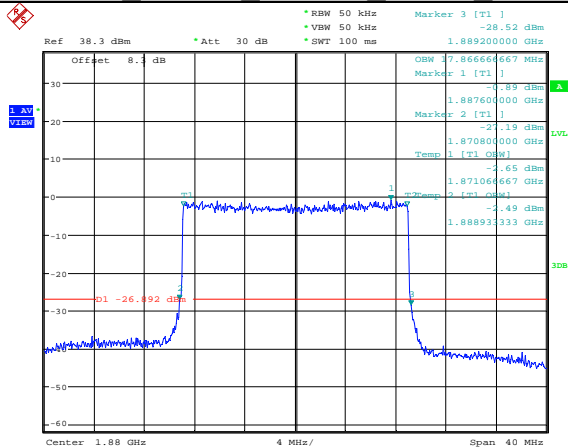
Date: 3.JUL.2019 17:39:00

Band2_20MHz_16QAM_18700_100RB#0



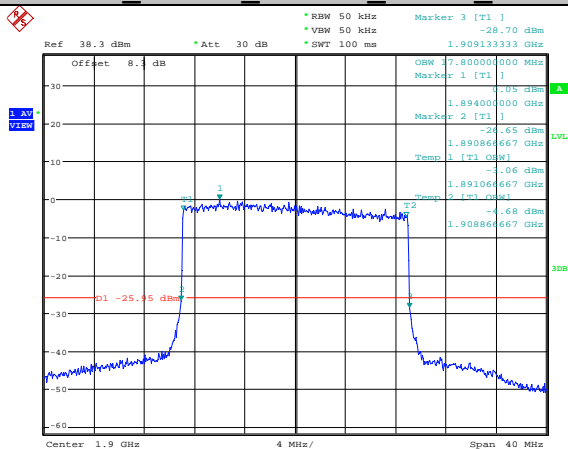
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Band2_20MHz_16QAM_18900_100RB#0



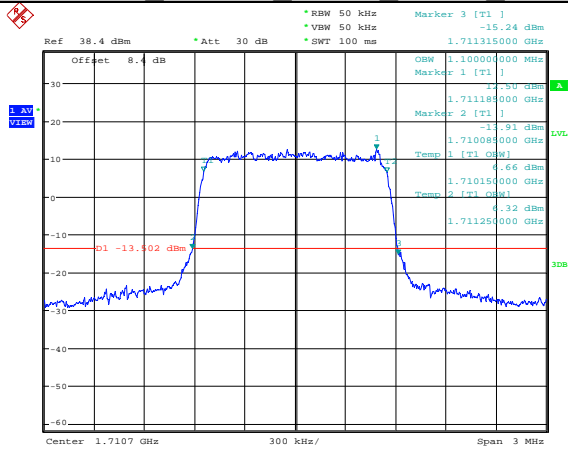
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Band2_20MHz_16QAM_19100_100RB#0



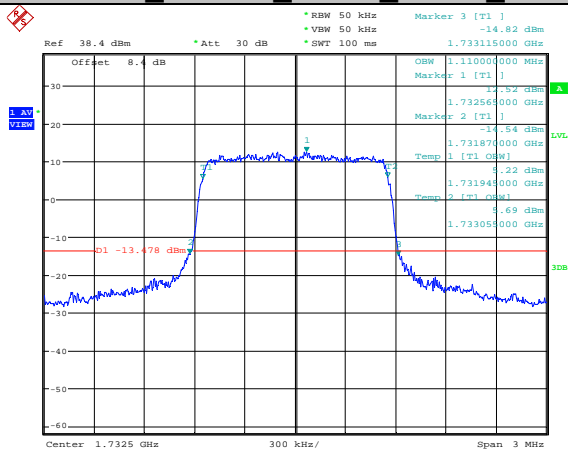
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Band4_1.4MHz_QPSK_19957_6RB#0



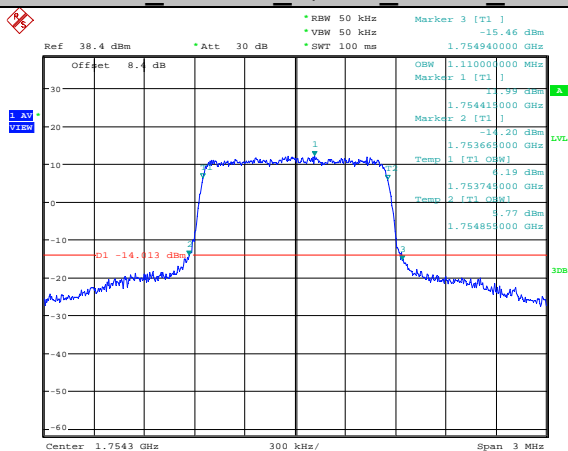
Date: 3.JUL.2019 17:43:14

Band4_1.4MHz_QPSK_20175_6RB#0



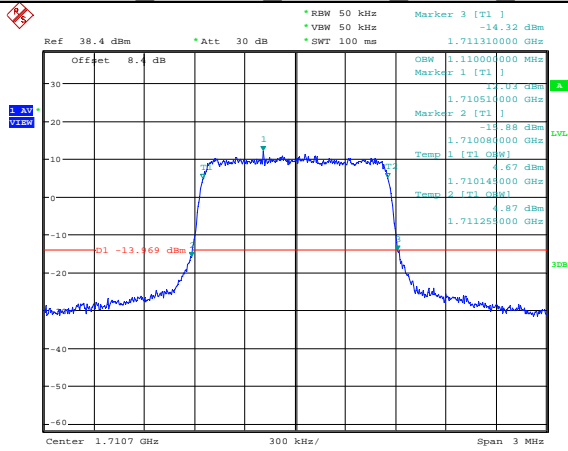
Date: 3.JUL.2019 17:43:37

Band4_1.4MHz_QPSK_20393_6RB#0



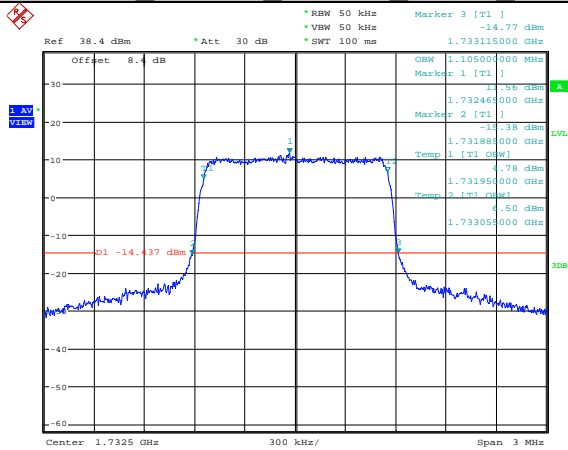
Date: 3.JUL.2019 17:43:59

Band4 1.4MHz 16QAM 19957 6RB#0



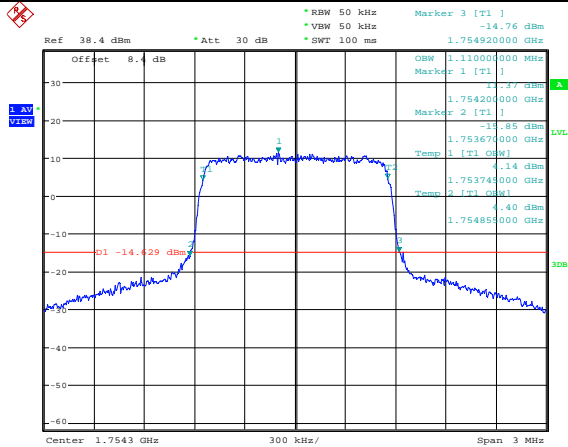
Date: 3.JUL.2019 17:43:24

Band4 1.4MHz 16QAM 20175 6RB#0



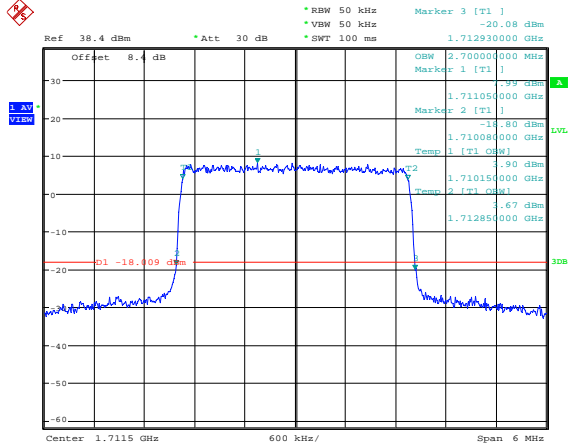
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Band4 1.4MHz 16QAM 20393 6RB#0



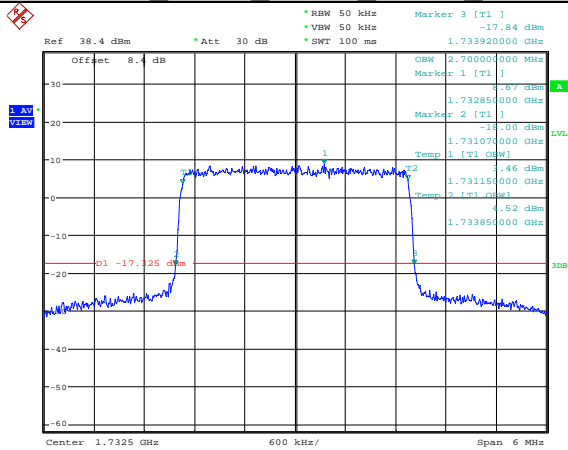
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Band4_3MHz_QPSK_19965_15RB#0



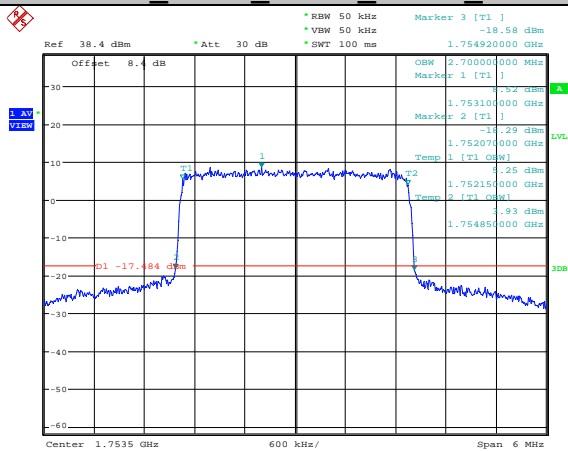
Date: 3.JUL.2019 18:03:42

Band4_3MHz_QPSK_20175_15RB#0



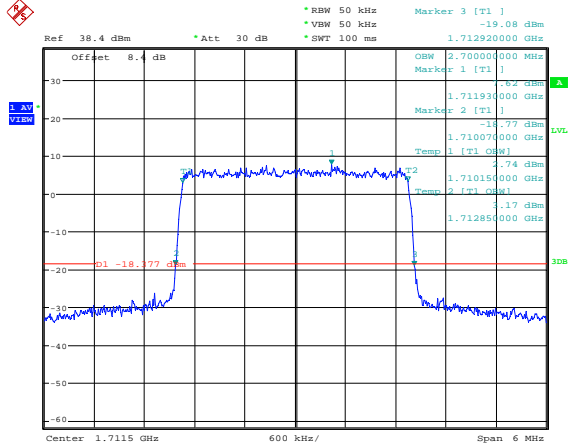
Date: 3.JUL.2019 18:04:04

Band4_3MHz_QPSK_20385_15RB#0



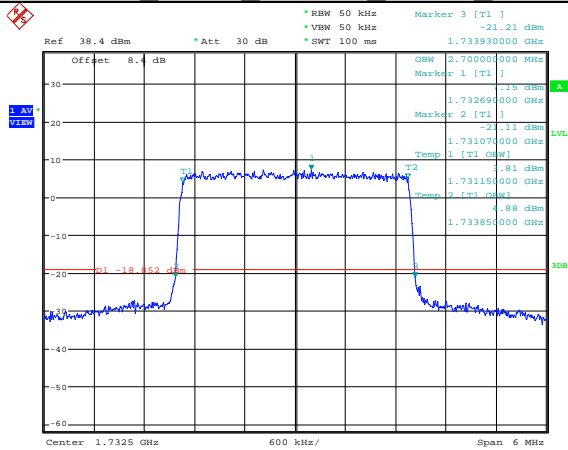
Date: 3.JUL.2019 18:04:26

Band4_3MHz_16QAM_19965_15RB#0



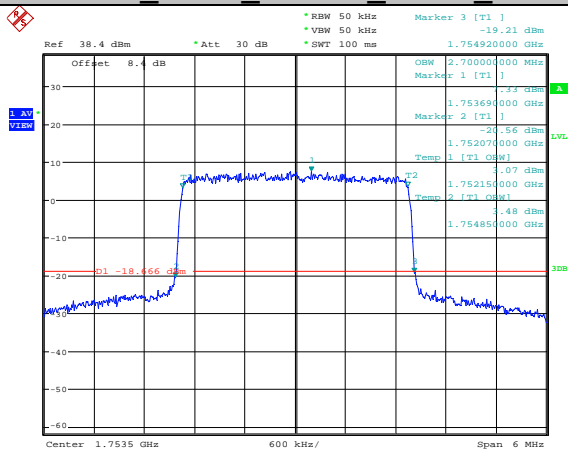
Date: 3.JUL.2019 18:03:52

Band4_3MHz_16QAM_20175_15RB#0



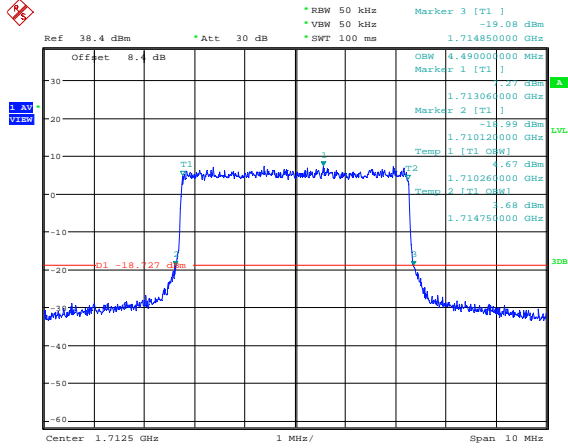
Date: 3.JUL.2019 18:04:14

Band4_3MHz_16QAM_20385_15RB#0



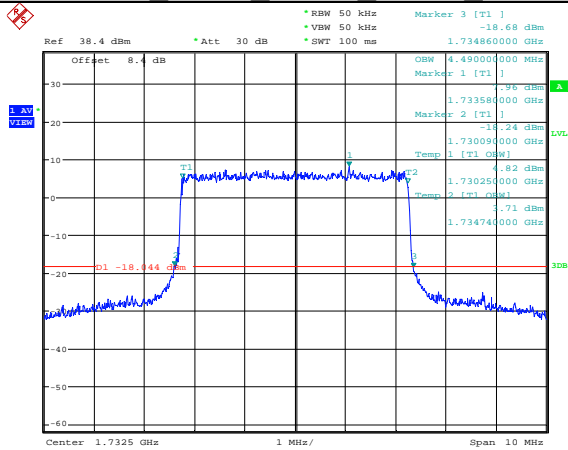
Date: 3.JUL.2019 18:04:36

Band4_5MHz_QPSK_19975_25RB#0



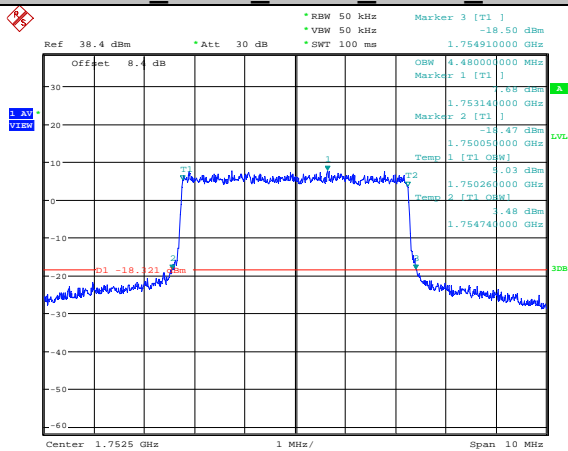
Date: 3.JUL.2019 18:16:57

Band4_5MHz_QPSK_20175_25RB#0



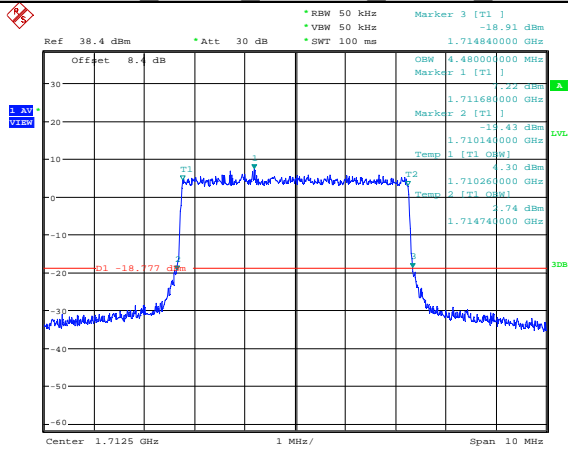
Date: 3.JUL.2019 18:17:33

Band4_5MHz_QPSK_20375_25RB#0



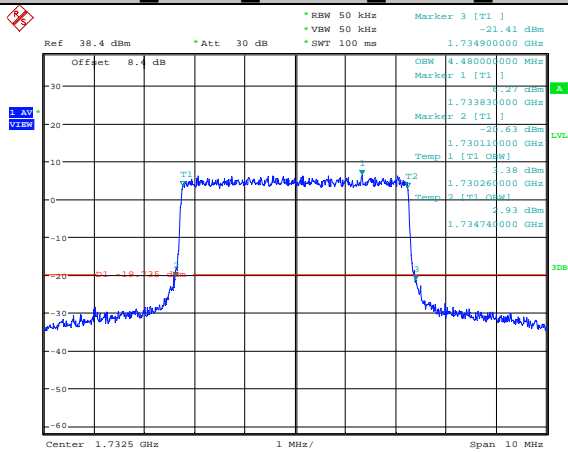
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Band4_5MHz_16QAM_19975_25RB#0



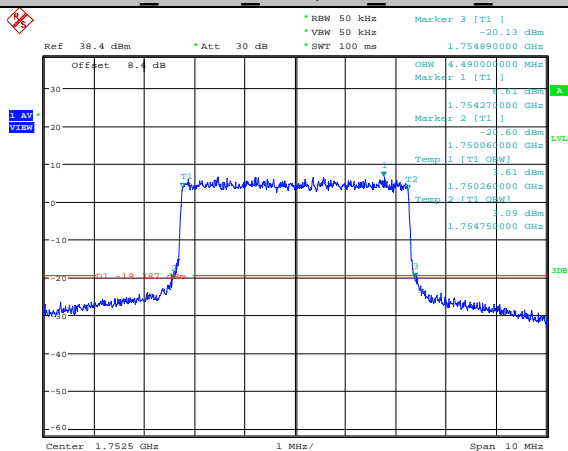
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Band4_5MHz_16QAM_20175_25RB#0



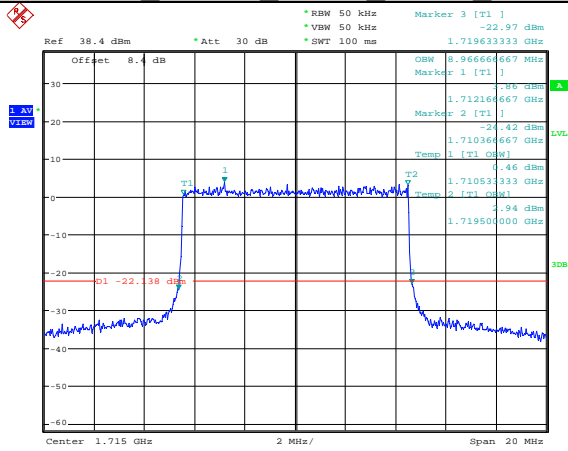
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Band4_5MHz_16QAM_20375_25RB#0



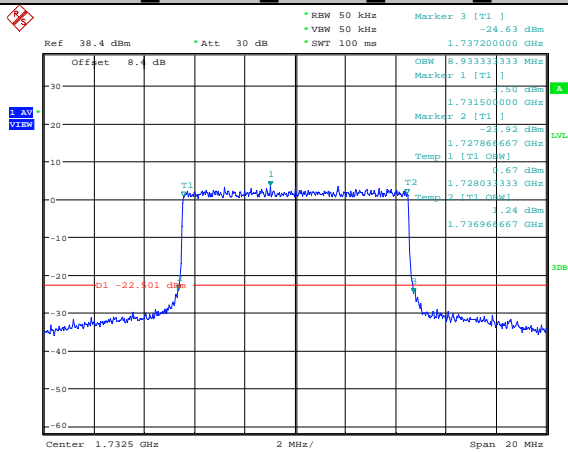
Date: 3.JUL.2019 18:18:26

Band4_10MHz_QPSK_2000_50RB#0



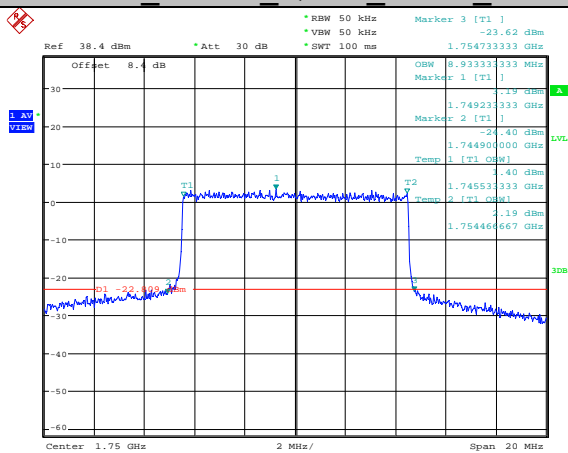
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Band4_10MHz_QPSK_20175_50RB#0



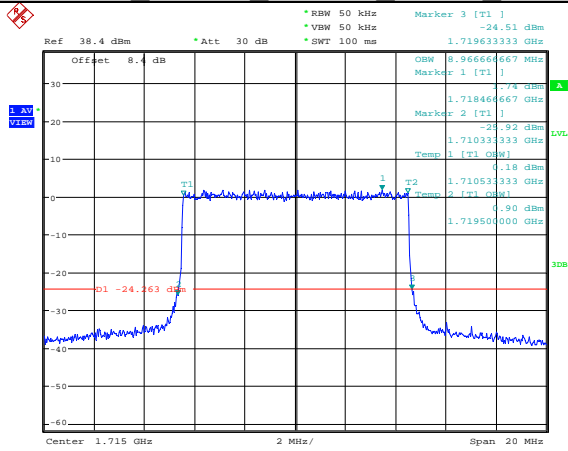
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Band4_10MHz_QPSK_20350_50RB#0



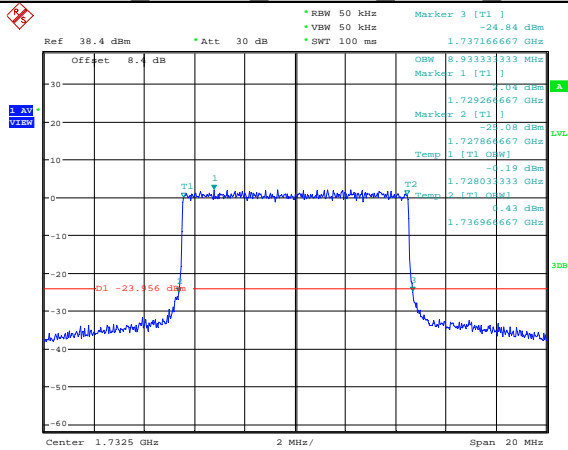
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Band4_10MHz_16QAM_2000_50RB#0



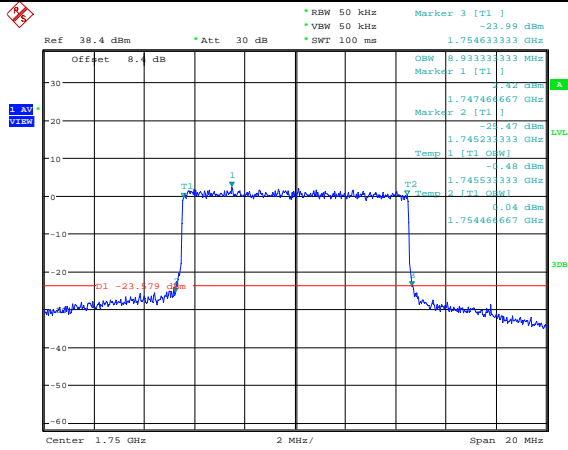
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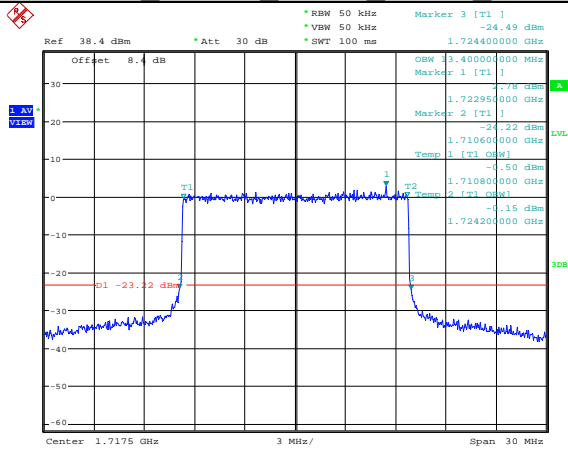
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Band4_10MHz_16QAM_20350_50RB#0



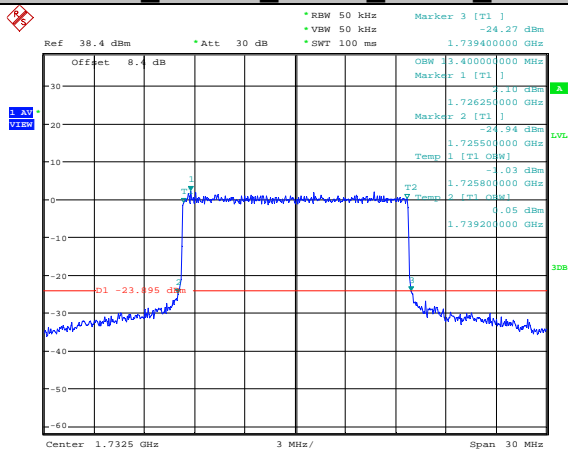
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Band4_15MHz_QPSK_20025_75RB#0



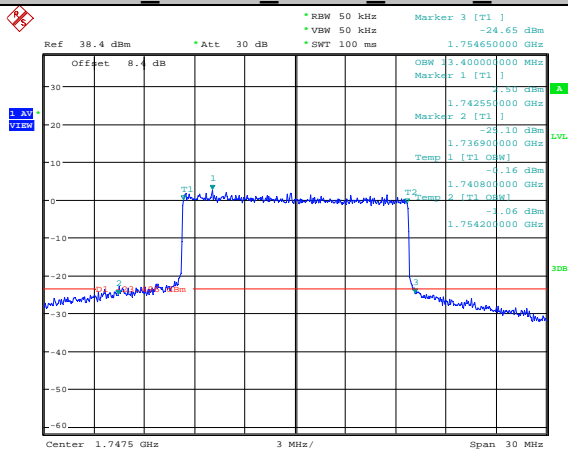
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Band4_15MHz_QPSK_20175_75RB#0



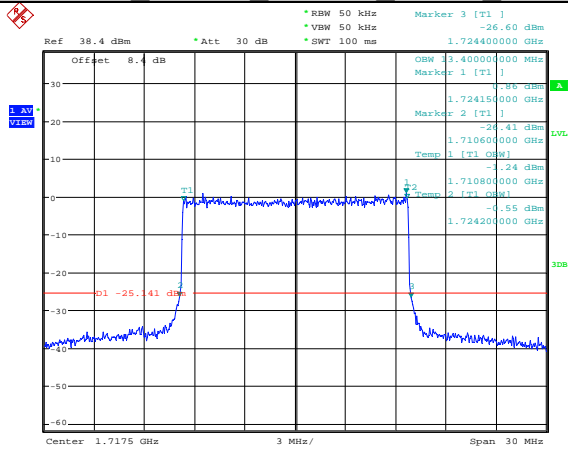
Date: 3.JUL.2019 19:04:23

Band4_15MHz_QPSK_20325_75RB#0



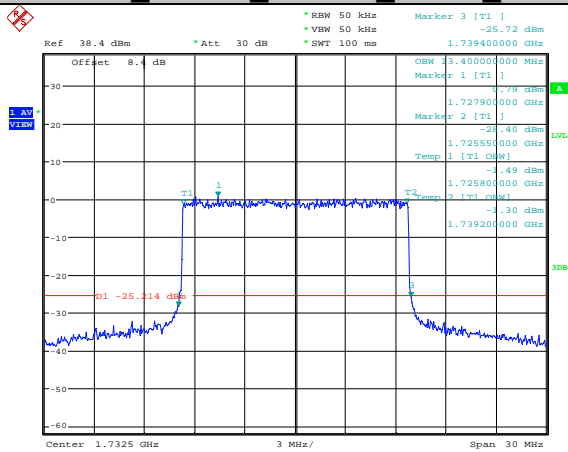
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Band4_15MHz_16QAM_20025_75RB#0



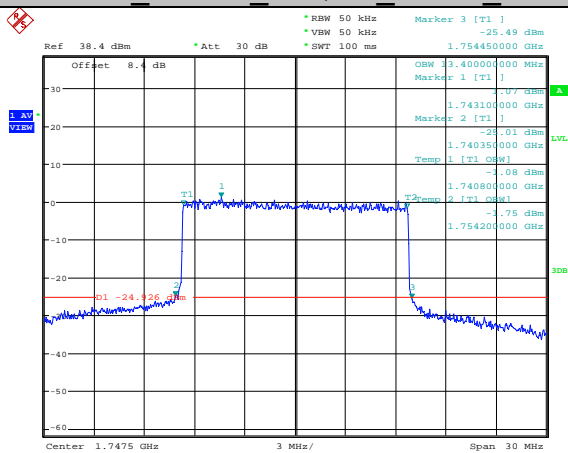
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Band4_15MHz_16QAM_20175_75RB#0



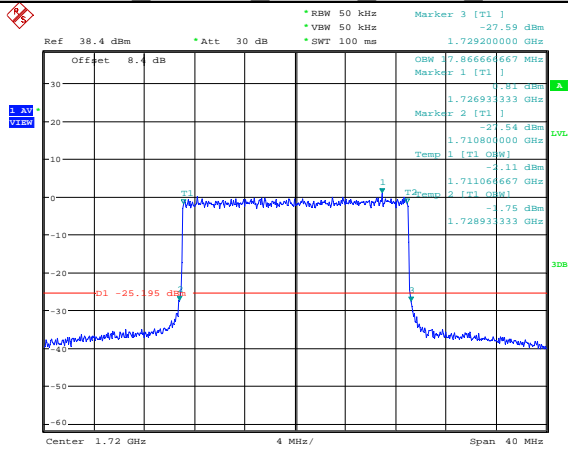
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Band4_15MHz_16QAM_20325_75RB#0



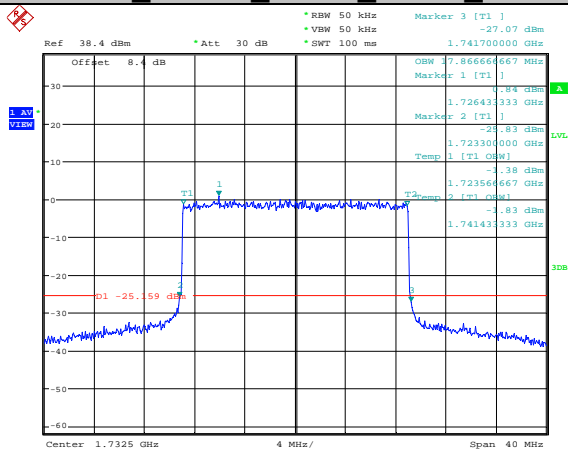
Date: 3.JUL.2019 19:04:55

Band4_20MHz_QPSK_20050_100RB#0



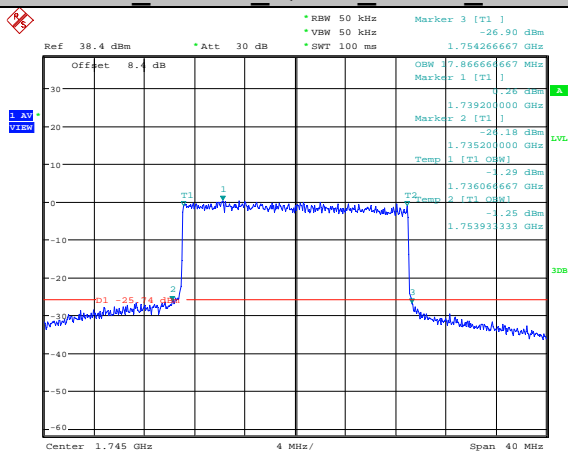
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Band4_20MHz_QPSK_20175_100RB#0



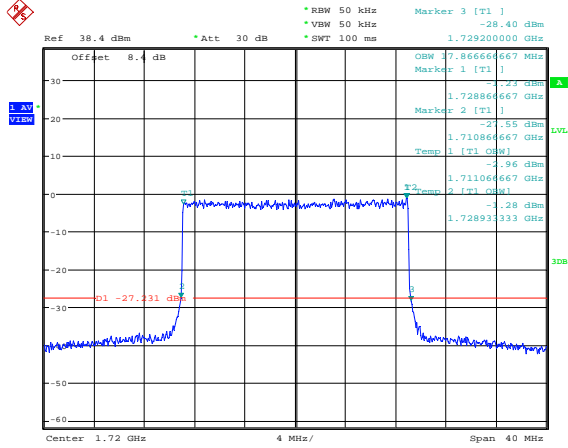
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Band4_20MHz_QPSK_20300_100RB#0



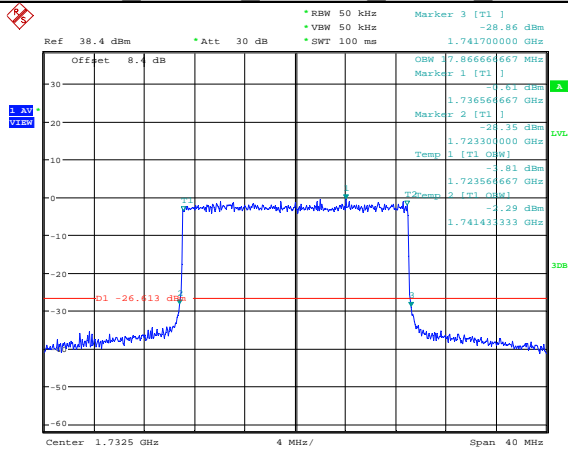
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Band4_20MHz_16QAM_20050_100RB#0



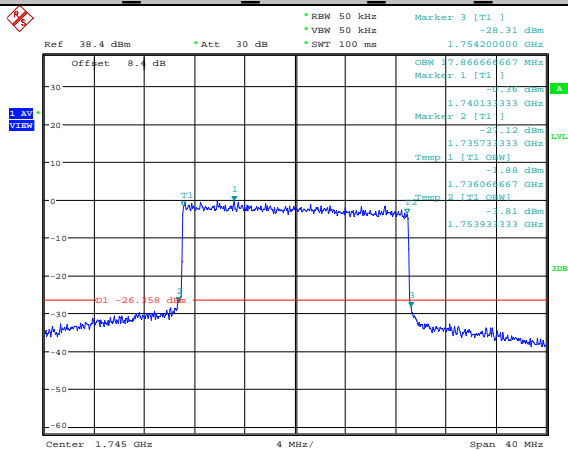
Date: 3.JUL.2019 19:09:31

Band4_20MHz_16QAM_20175_100RB#0



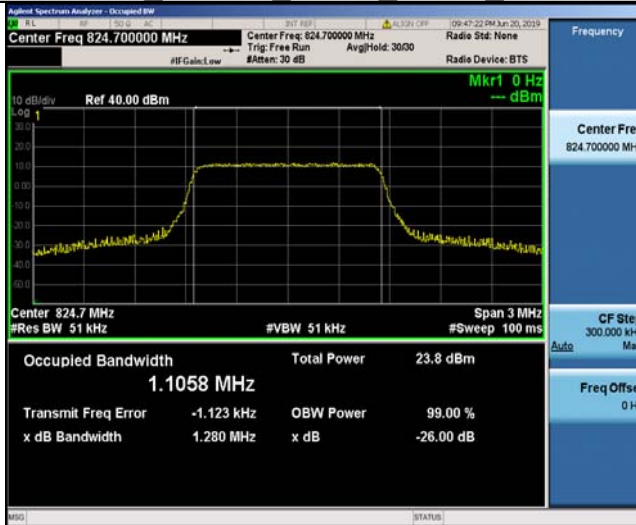
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Band4_20MHz_16QAM_20300_100RB#0

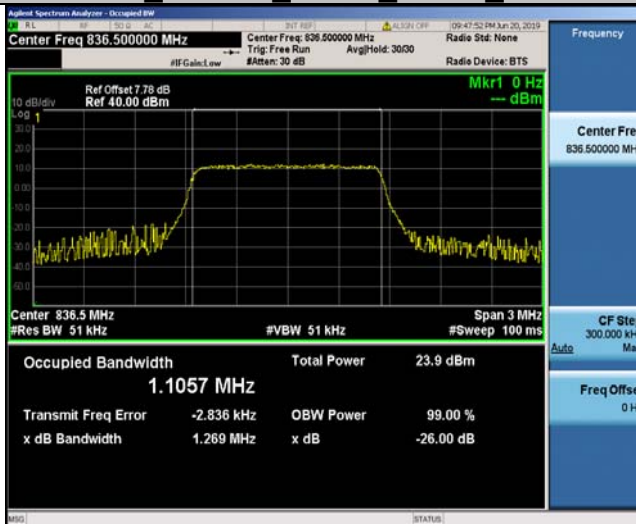


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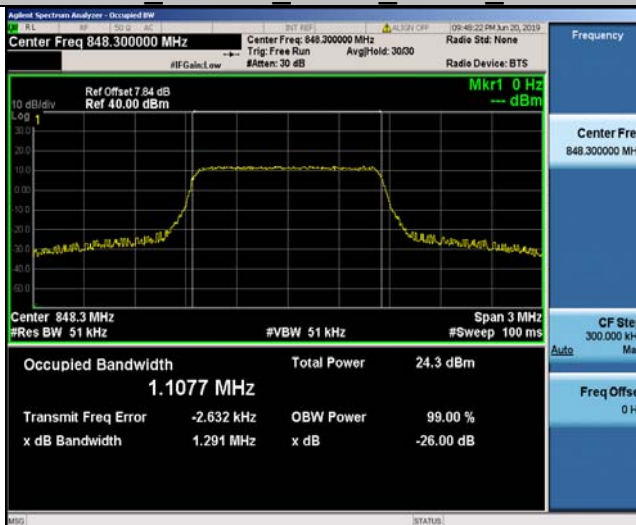
Band5 1.4MHz QPSK 20407 6RB#0



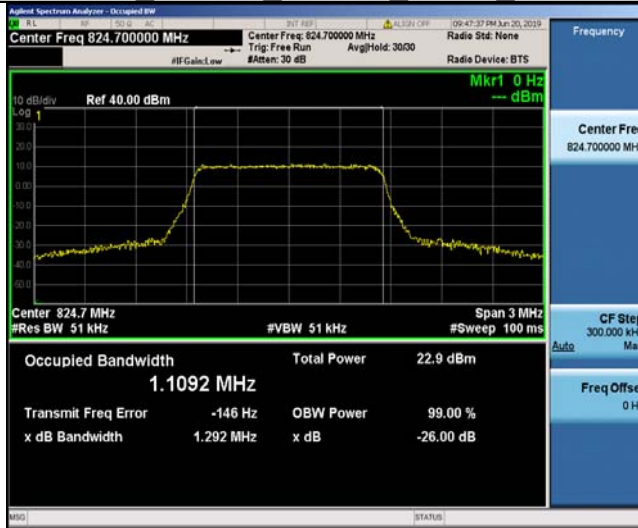
Band5 1.4MHz QPSK 20525 6RB#0



Band5 1.4MHz QPSK 20643 6RB#0



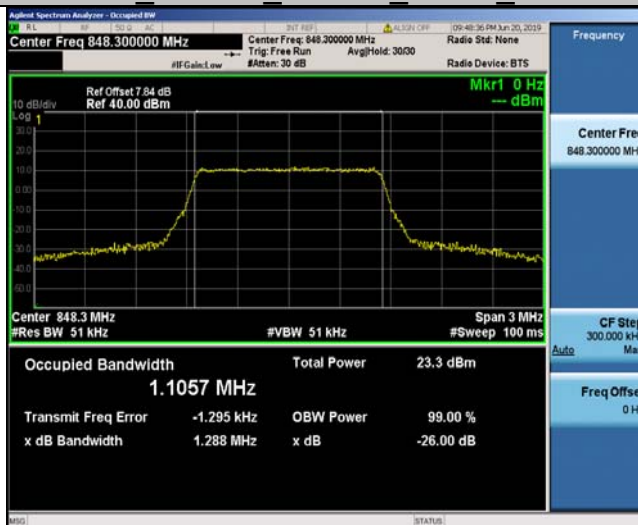
Band5_1.4MHz_16QAM_20407_6RB#0



Band5_1.4MHz_16QAM_20525_6RB#0



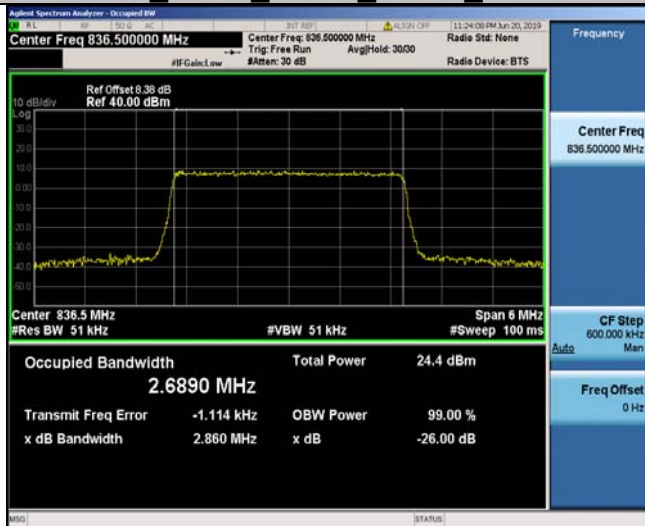
Band5_1.4MHz_16QAM_20643_6RB#0



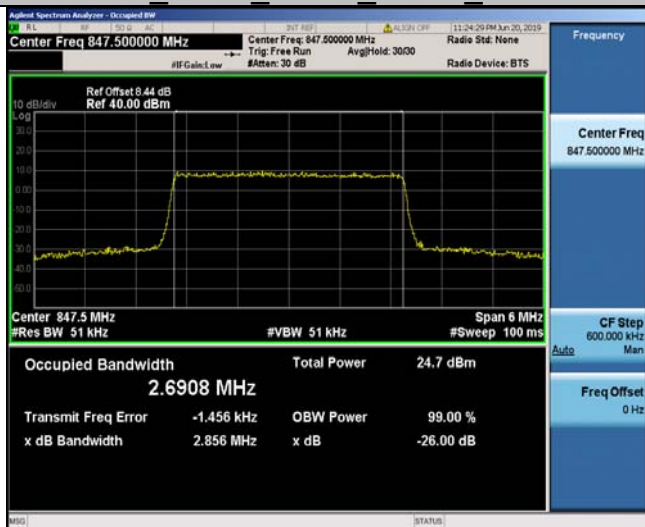
Band5_3MHz_QPSK_20415_15RB#0



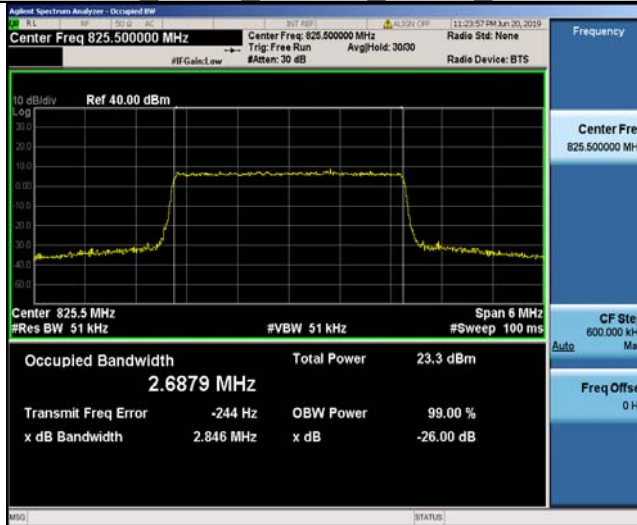
Band5_3MHz_QPSK_20525_15RB#0



Band5_3MHz_QPSK_20635_15RB#0



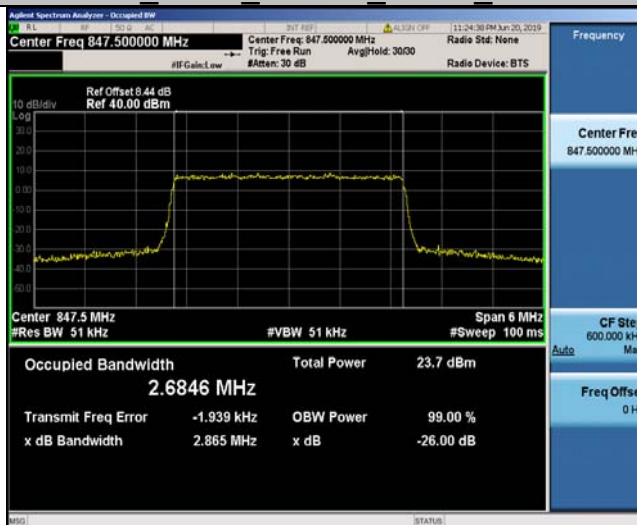
Band5 3MHz 16QAM 20415 15RB#0



Band5 3MHz 16QAM 20525 15RB#0



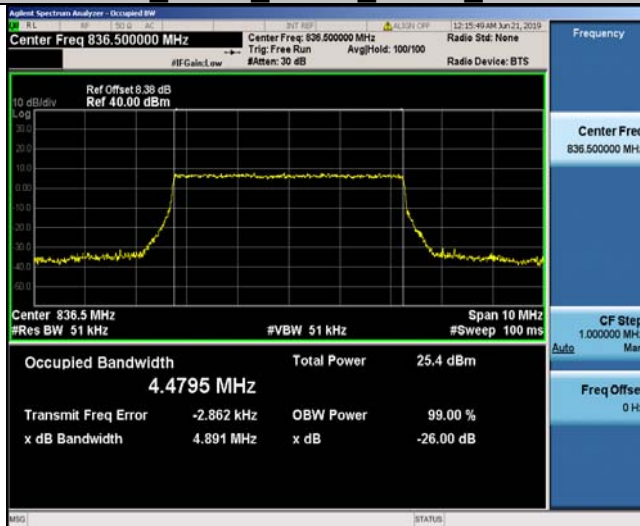
Band5 3MHz 16QAM 20635 15RB#0



Band5_5MHz_QPSK_20425_25RB#0



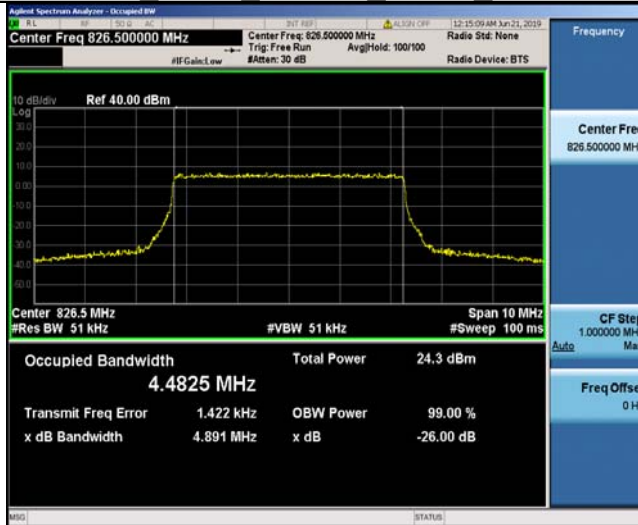
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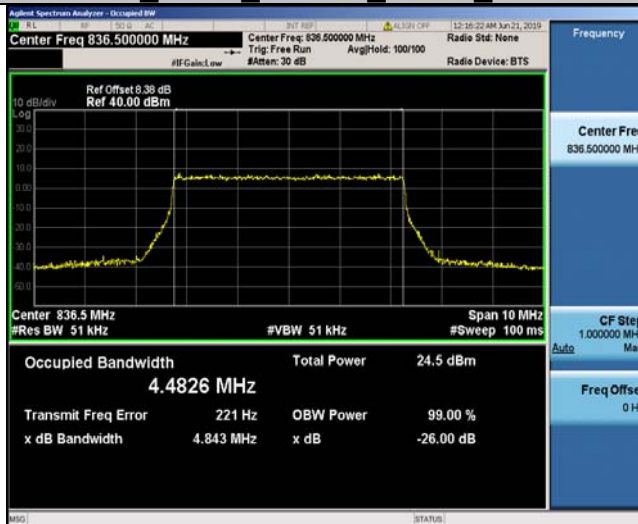
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Band5 5MHz 16QAM 20425 25RB#0



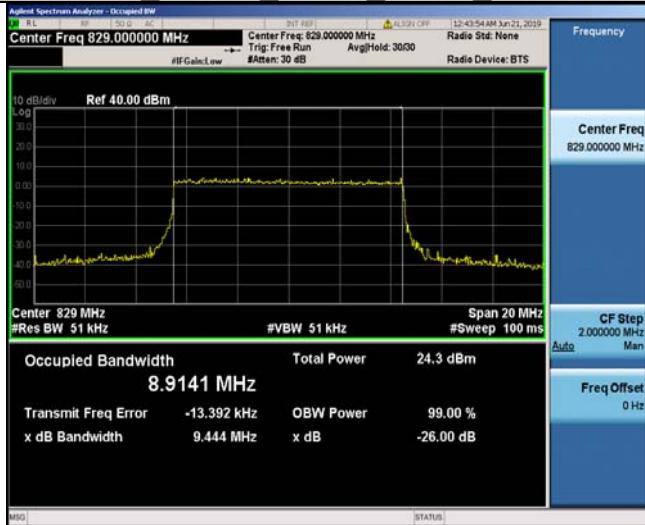
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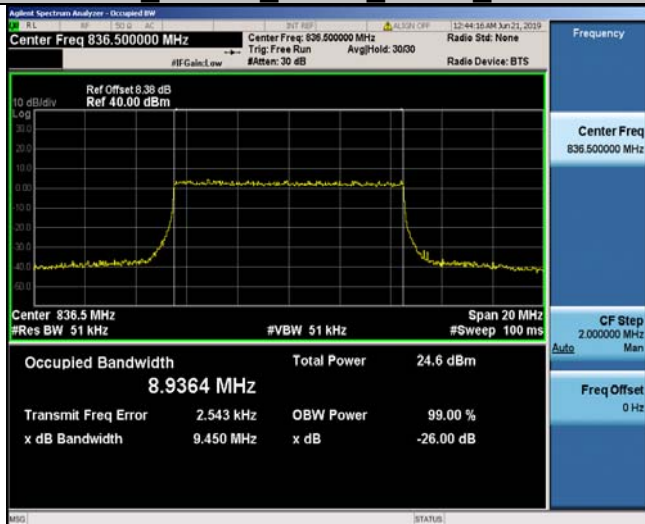
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Band5 10MHz QPSK 20450 50RB#0



Band5 10MHz QPSK 20525 50RB#0



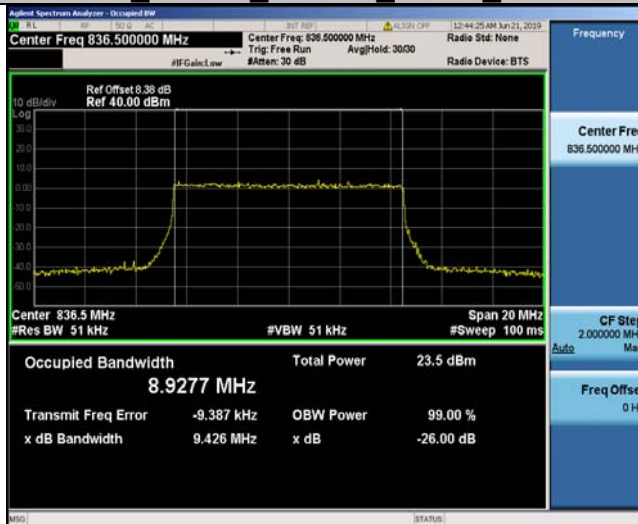
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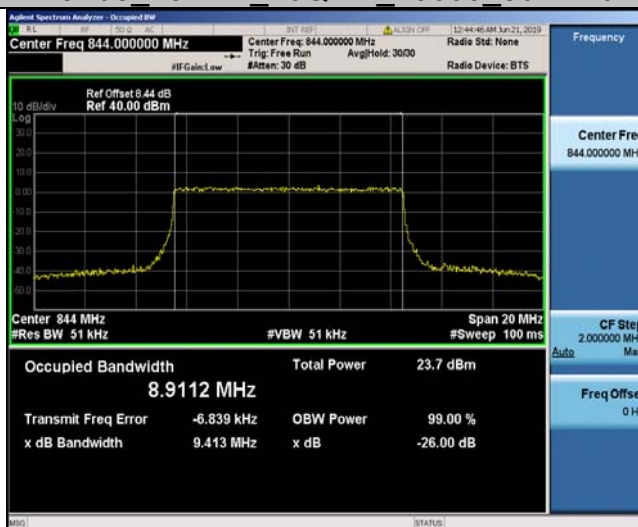
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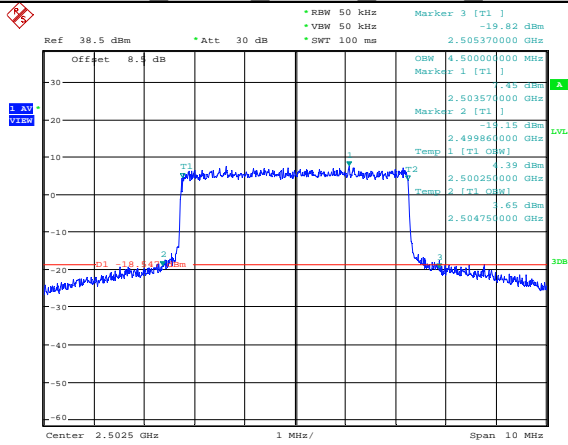
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Band5 10MHz 16QAM 20600 50RB#0

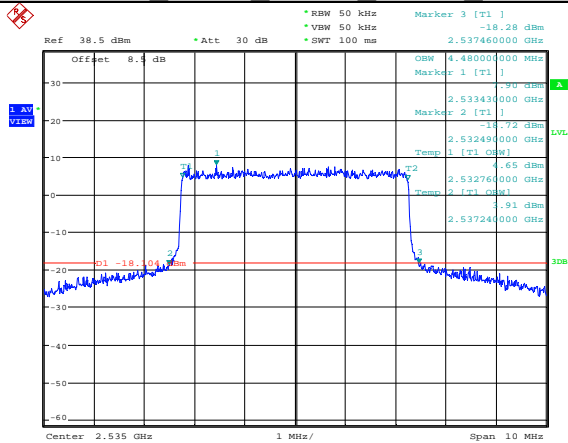


Band7_5MHz_QPSK_20775_25RB#0



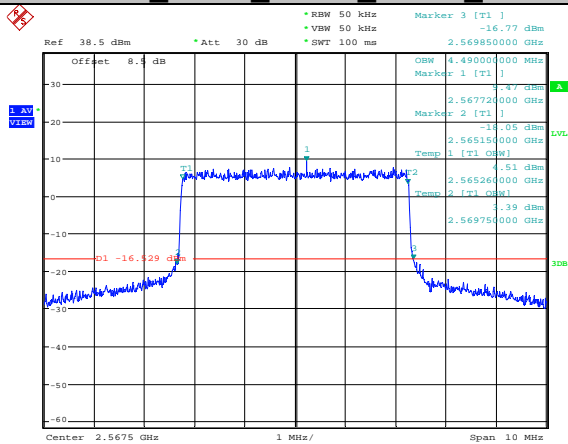
Date: 3.JUL.2019 12:38:59

Band7_5MHz_QPSK_21100_25RB#0



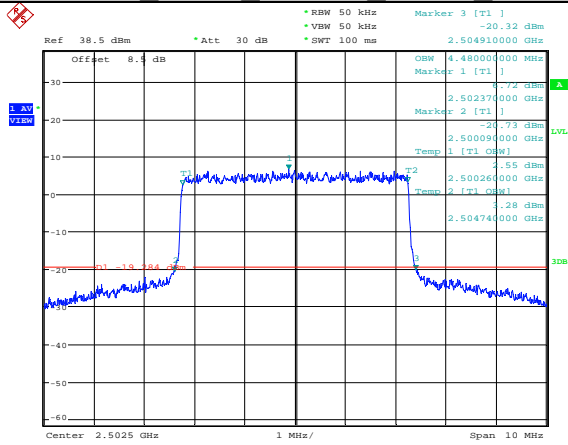
Date: 3.JUL.2019 12:39:35

Band7_5MHz_QPSK_21425_25RB#0



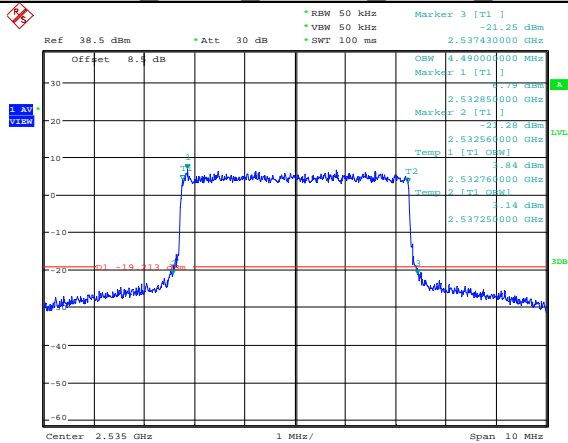
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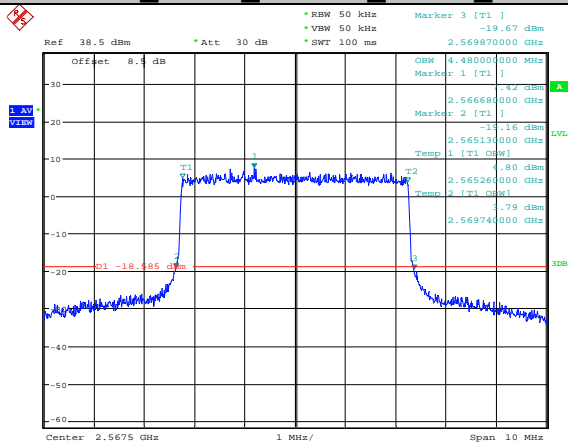
Date: 3.JUL.2019 12:39:16

Band7_5MHz_16QAM_21100_25RB#0



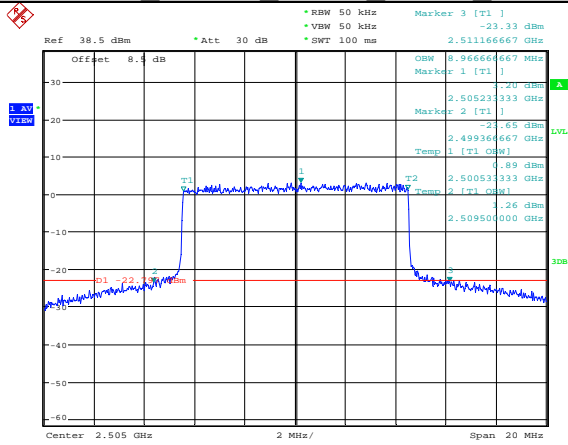
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Band7_5MHz_16QAM_21425_25RB#0



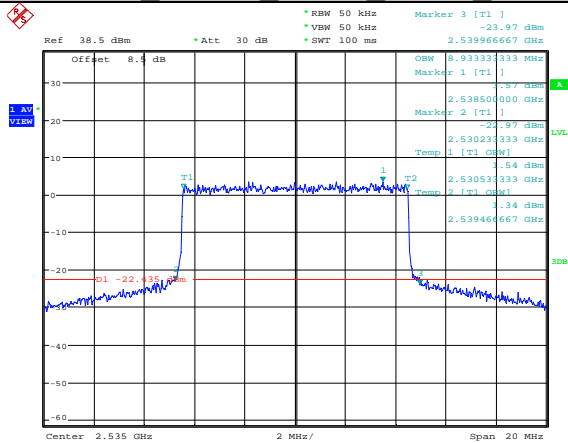
Date: 3.JUL.2019 12:40:28

Band7_10MHz_QPSK_20800_50RB#0



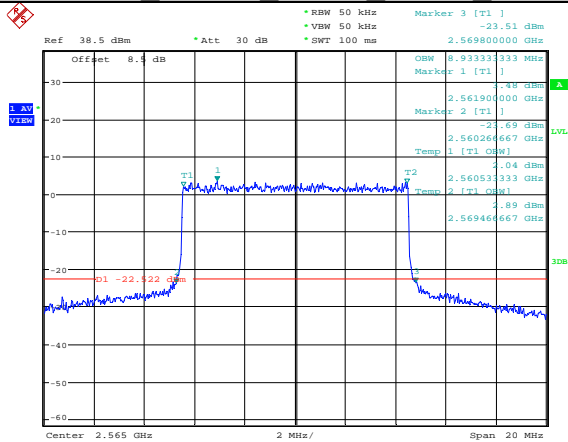
Date: 3.JUL.2019 12:42:01

Band7_10MHz_QPSK_21100_50RB#0



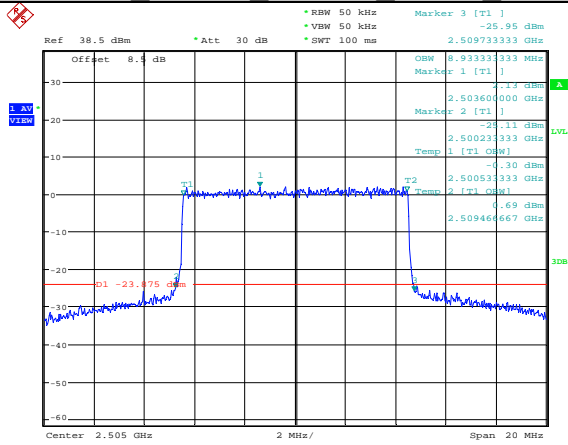
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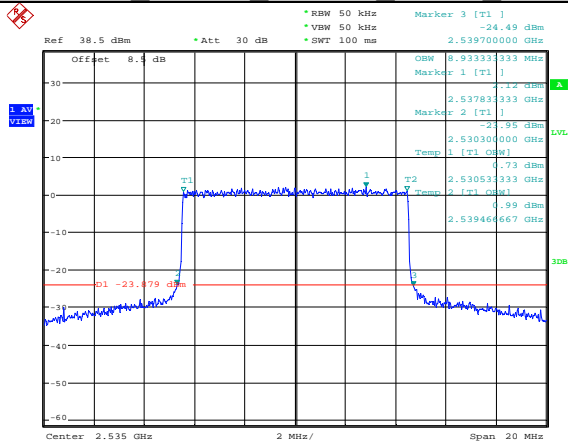
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Band7 10MHz 16QAM 20800 50RB#0



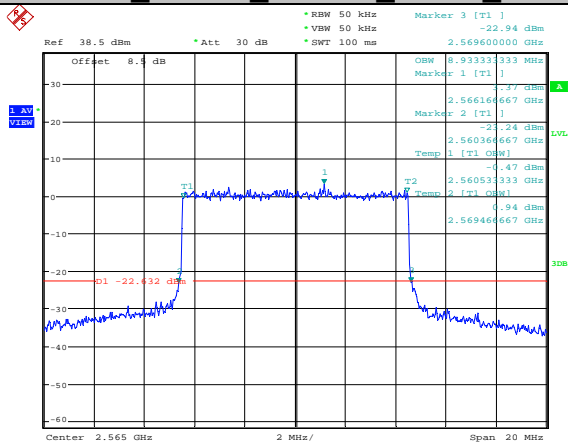
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Band7 10MHz 16QAM 21100 50RB#0



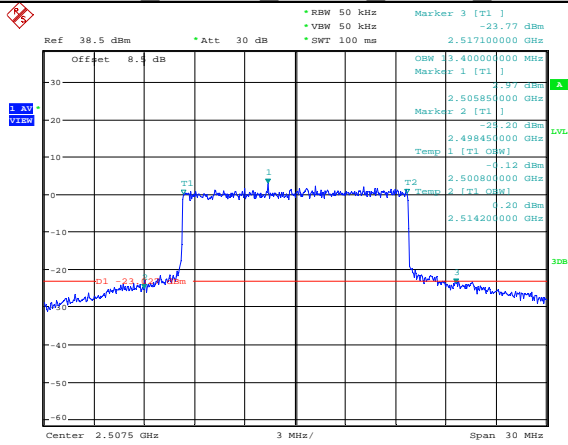
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Band7 10MHz 16QAM 21400 50RB#0



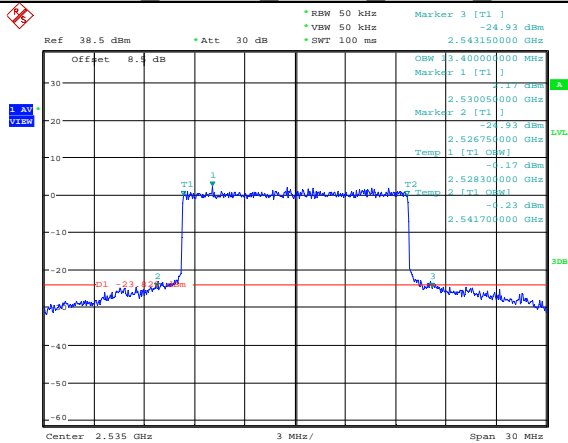
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Band7_15MHz_QPSK_20825_75RB#0



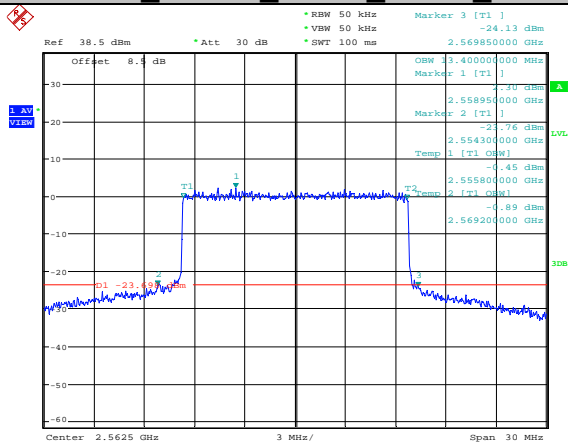
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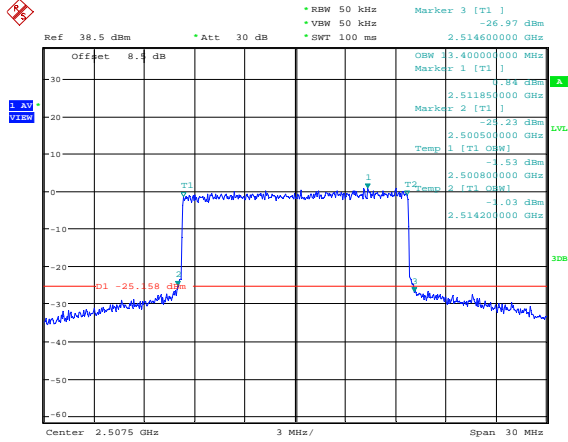
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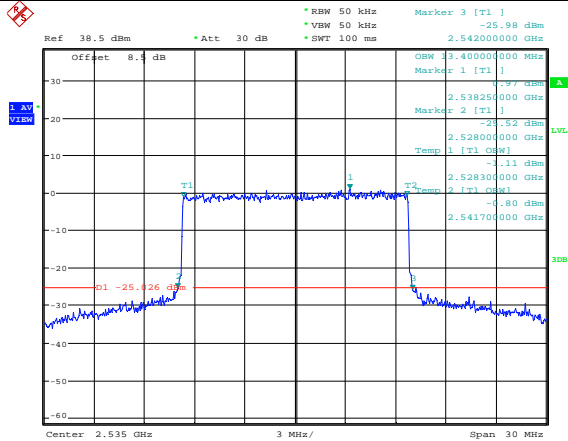
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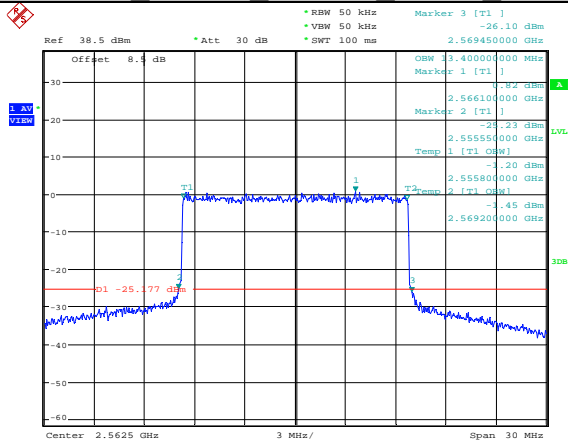
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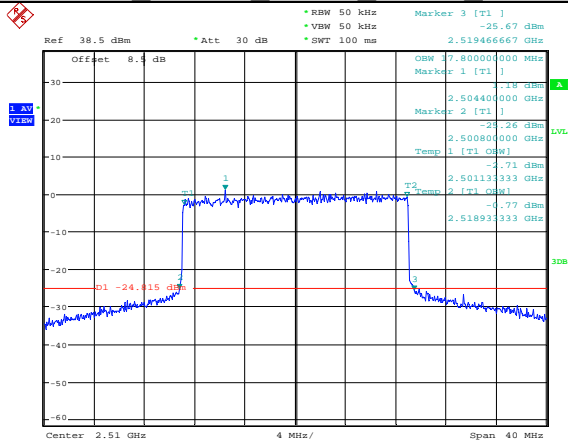
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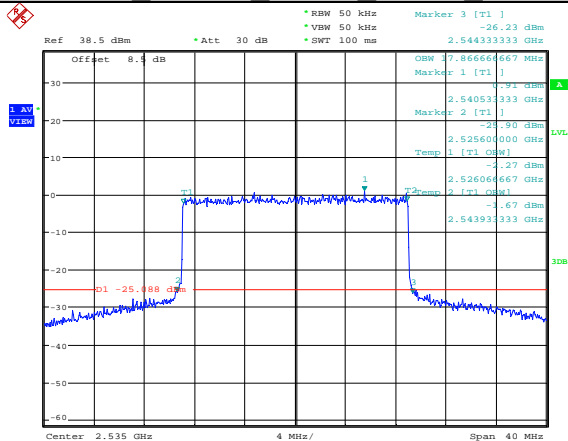
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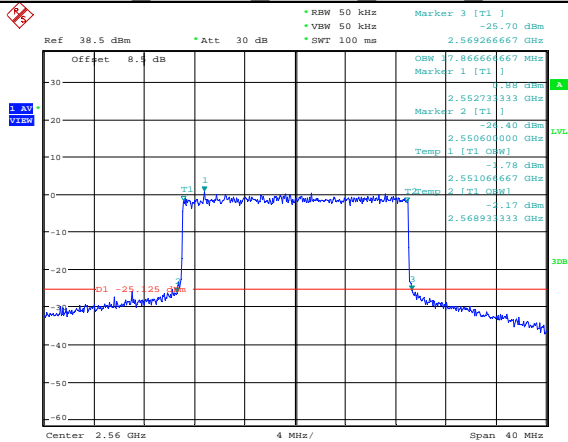
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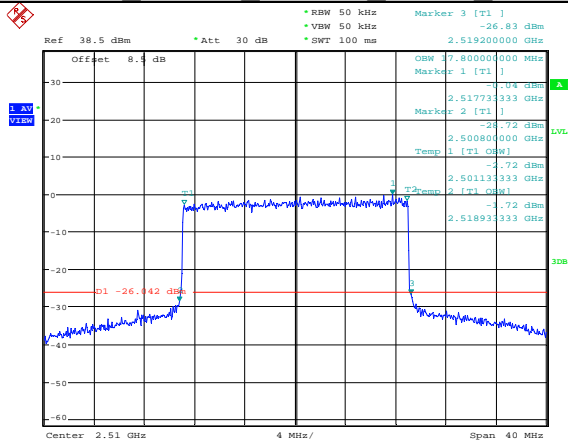
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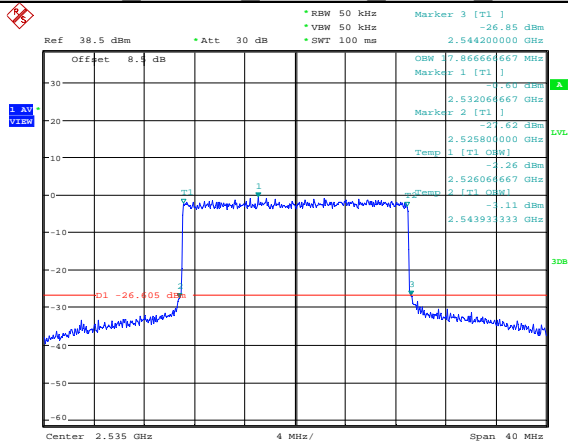
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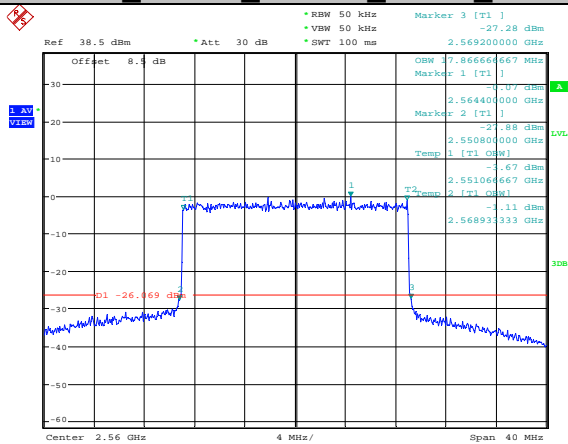
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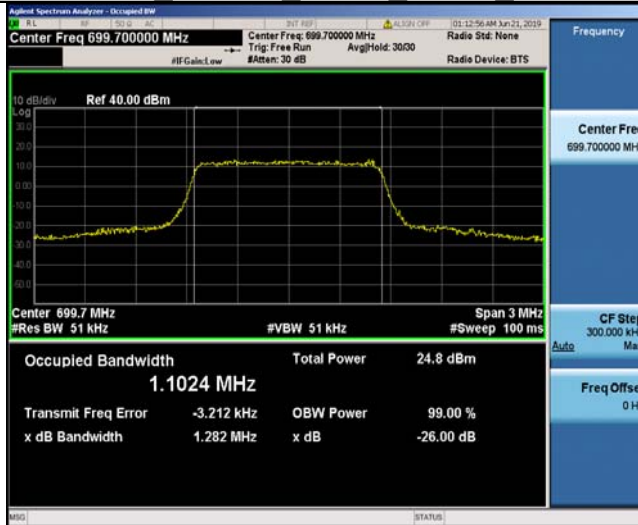
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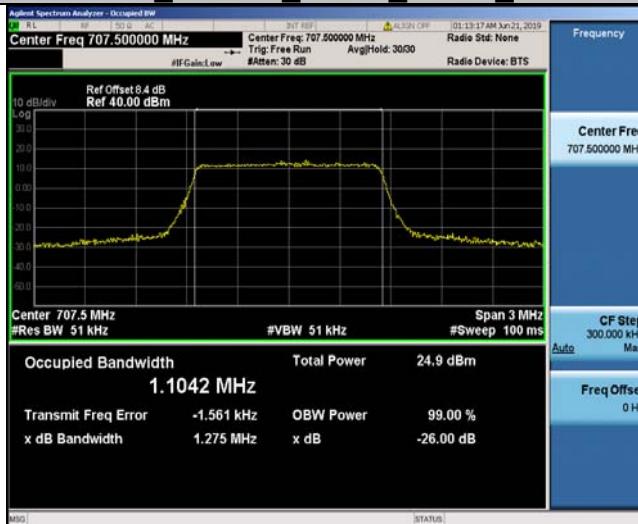


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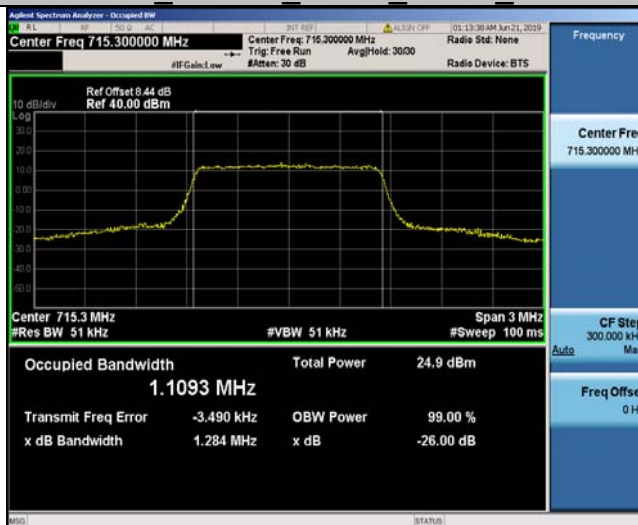
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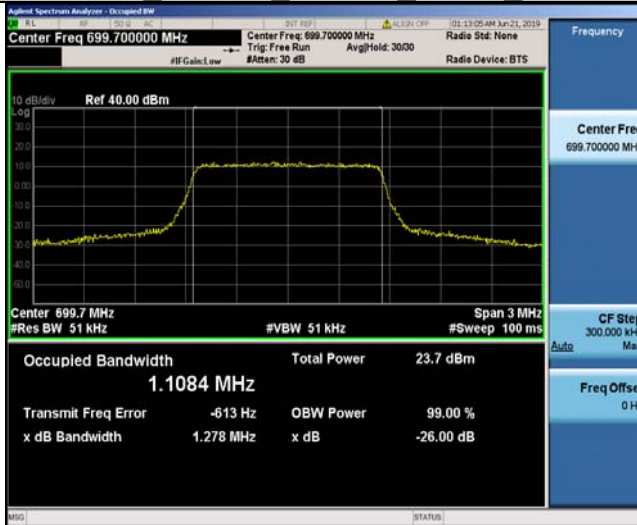
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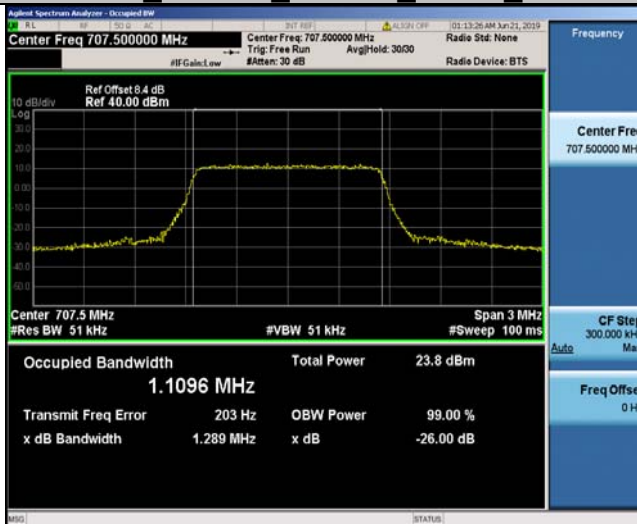
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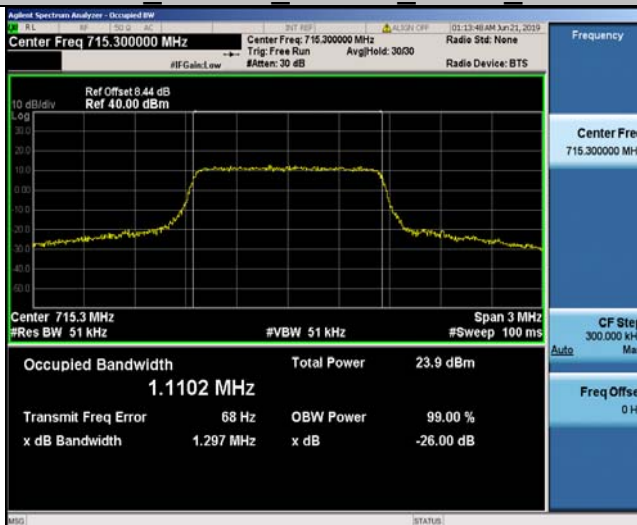
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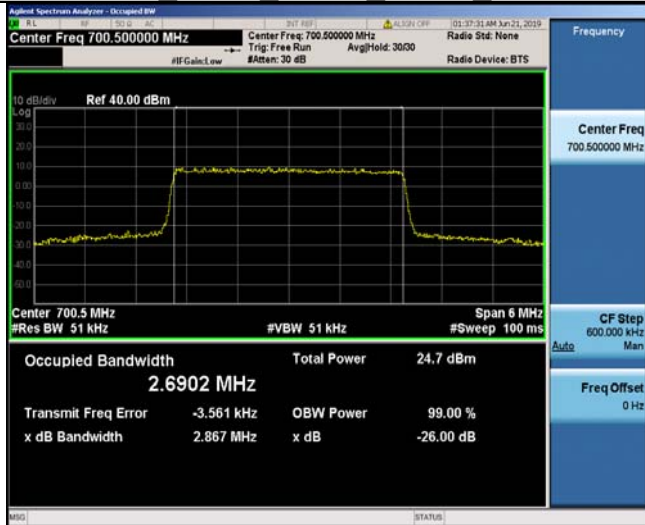
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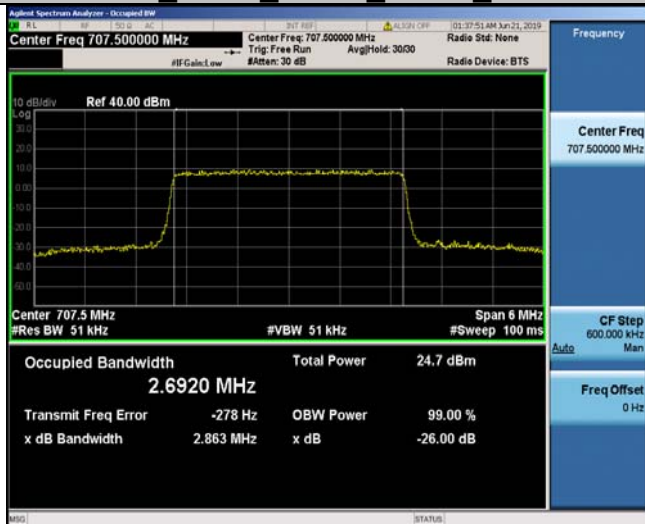
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Band12 3MHz QPSK 23025 15RB#0



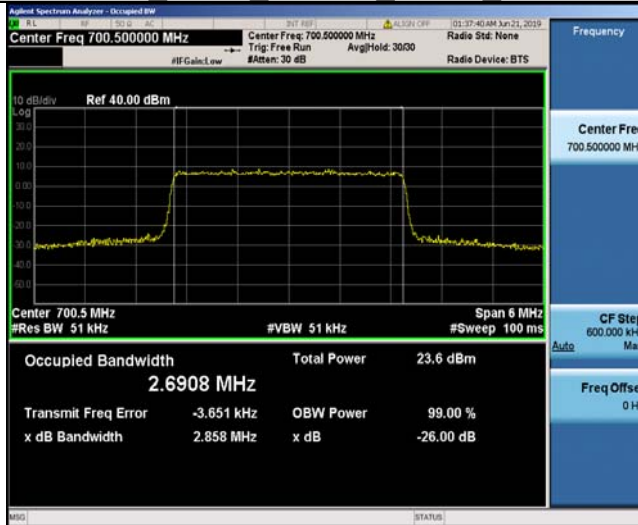
Band12 3MHz QPSK 23095 15RB#0



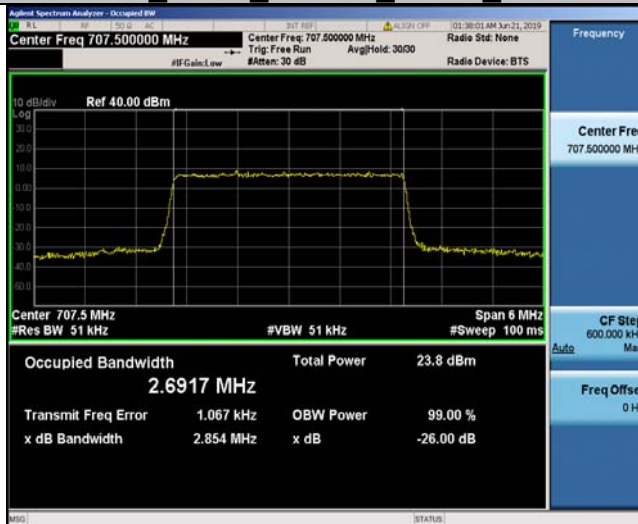
Band12 3MHz QPSK 23165 15RB#0



Band12 3MHz 16QAM 23025 15RB#0



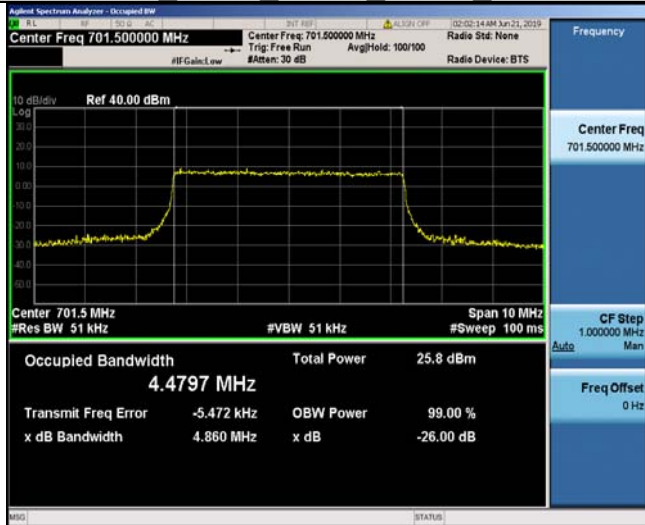
Band12 3MHz 16QAM 23095 15RB#0



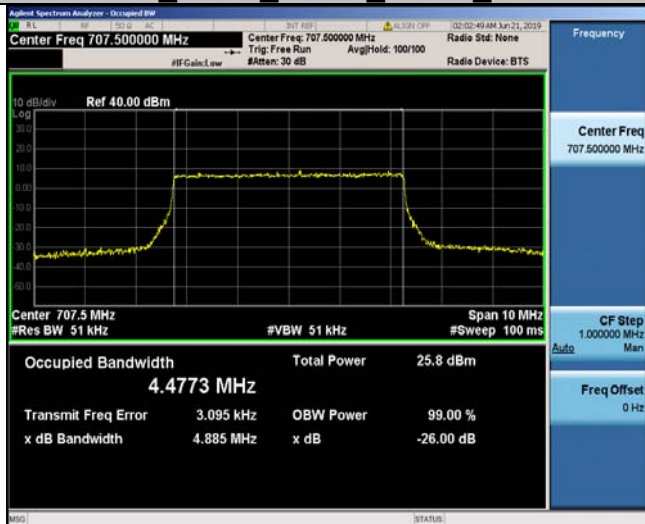
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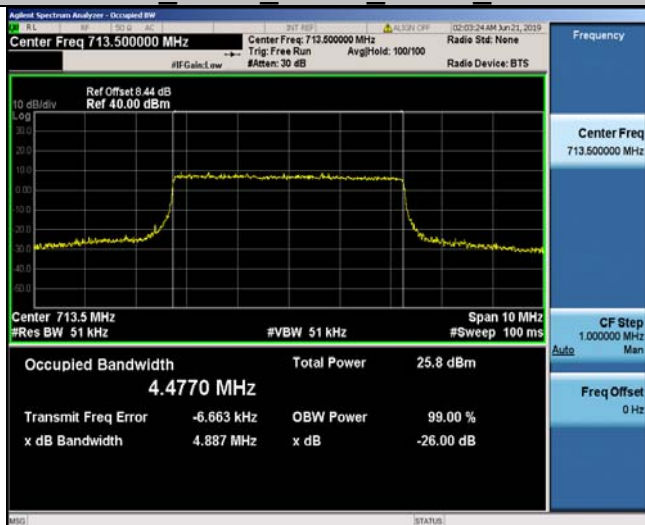
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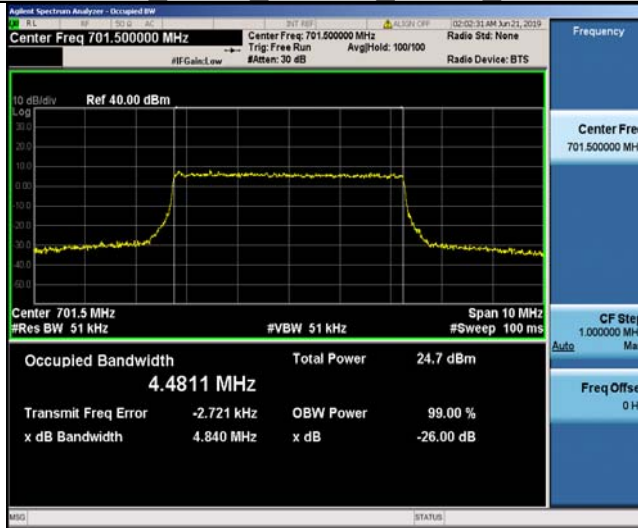
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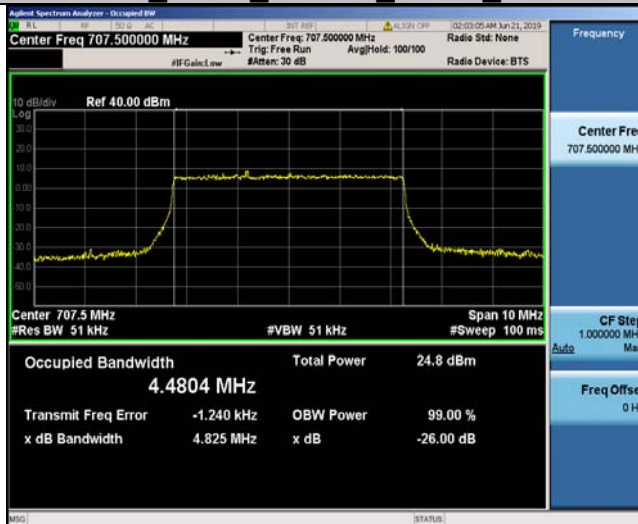
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Band12 5MHz 16QAM 23035 25RB#0



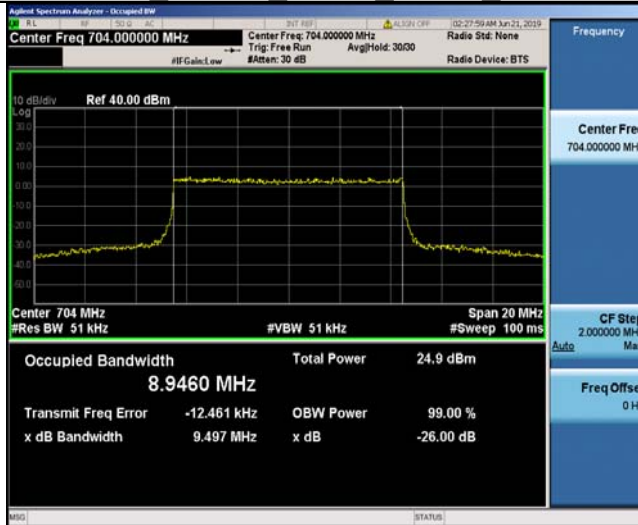
Band12 5MHz 16QAM 23095 25RB#0



Band12 5MHz 16QAM 23155 25RB#0



Band12_10MHz_QPSK_23060_50RB#0



Band12_10MHz_QPSK_23095_50RB#0



Band12_10MHz_QPSK_23130_50RB#0



Band12 10MHz 16QAM 23060 50RB#0



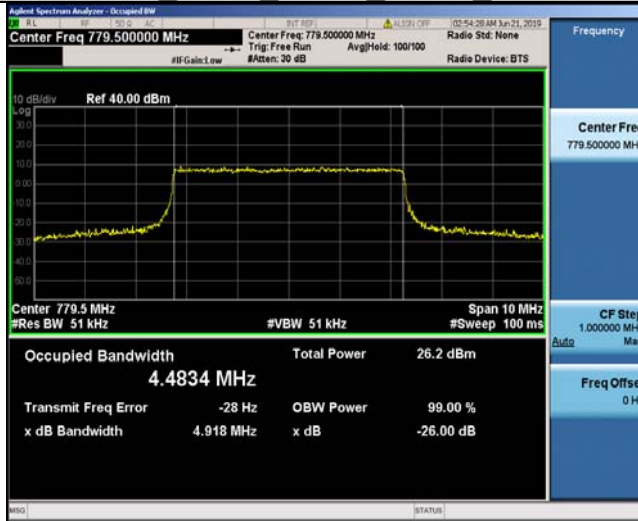
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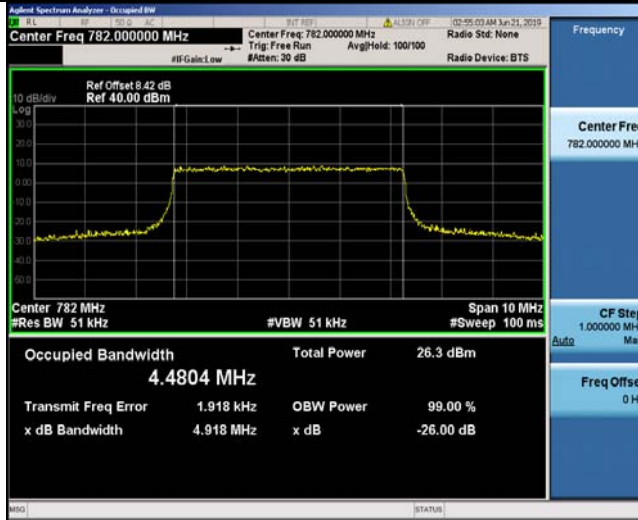
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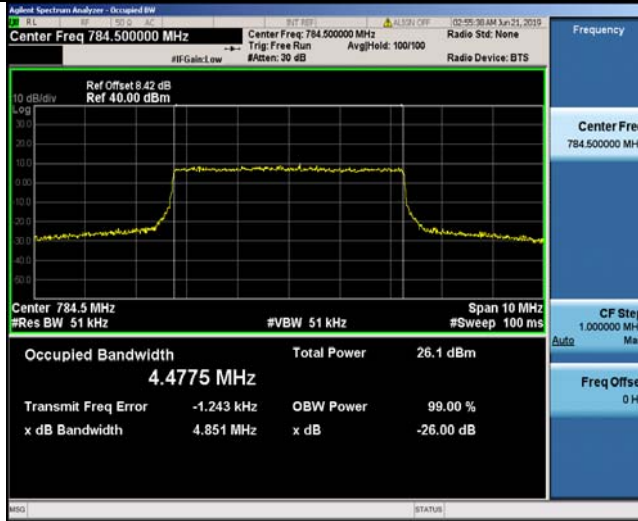
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Band13 5MHz QPSK 23230 25RB#0



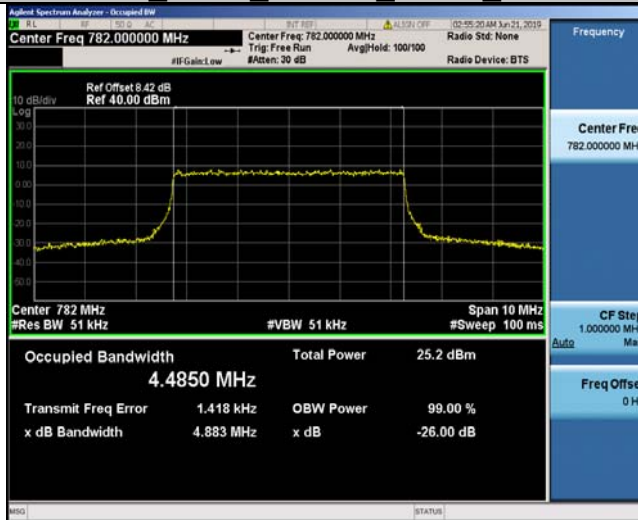
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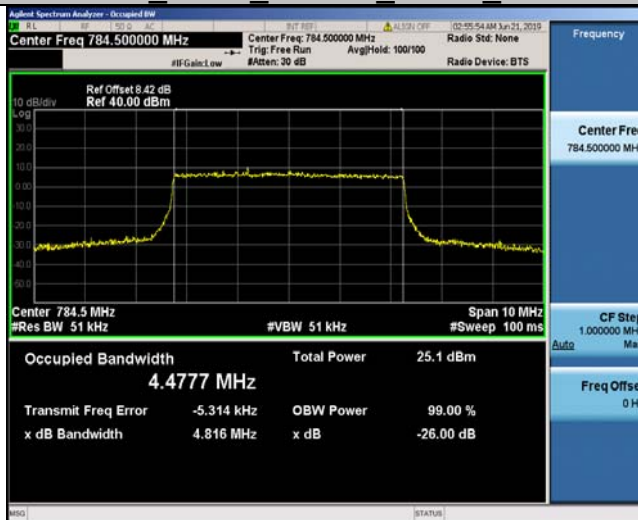
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Band13 5MHz 16QAM 23230 25RB#0



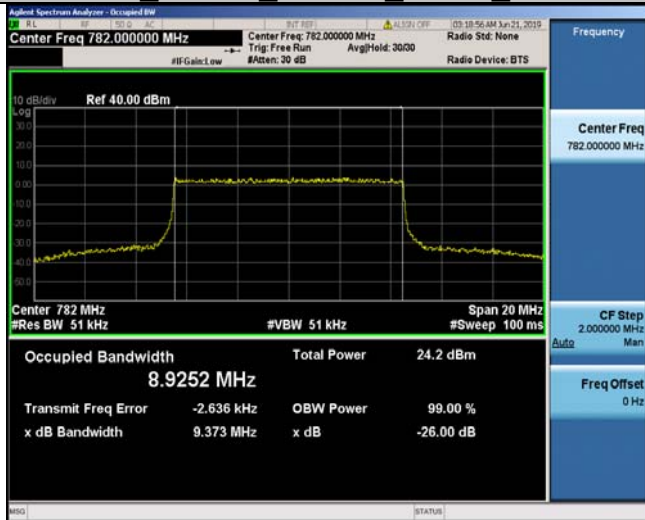
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Band13 10MHz_QPSK 23230 50RB#0



Band13 10MHz 16QAM 23230 50RB#0



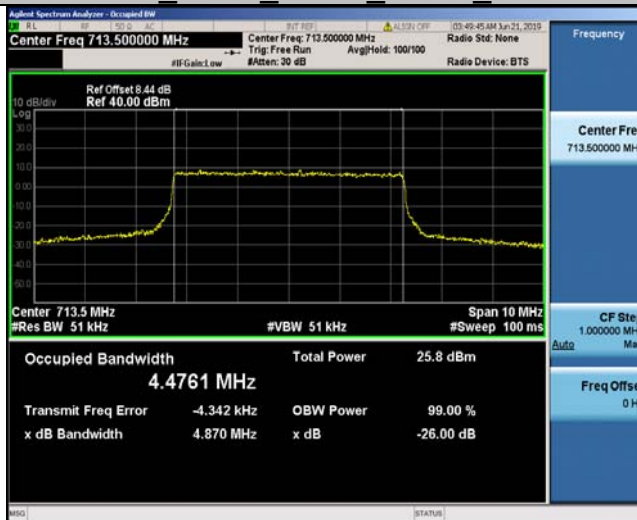
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Band17 5MHz QPSK 23790 25RB#0



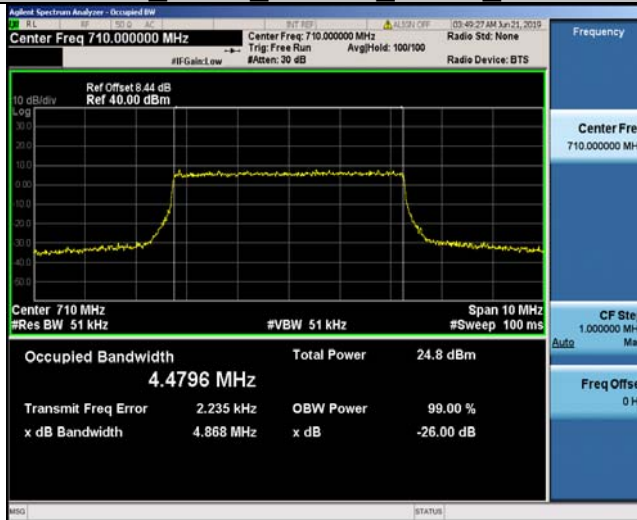
Band17 5MHz QPSK 23825 25RB#0



Band17 5MHz 16QAM 23755 25RB#0



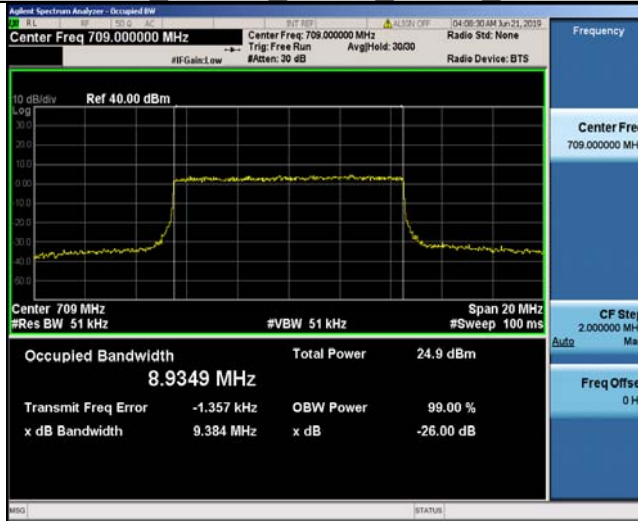
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Band17 5MHz 16QAM 23825 25RB#0



Band17 10MHz QPSK 23780 50RB#0



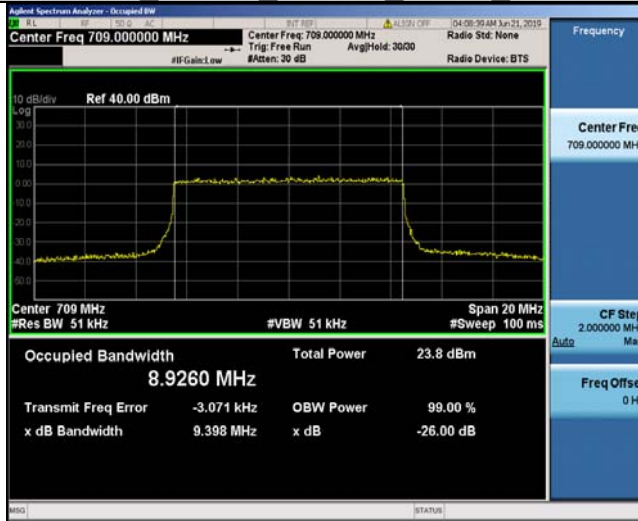
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Band17 10MHz QPSK 23800 50RB#0



Band17 10MHz 16QAM 23780 50RB#0



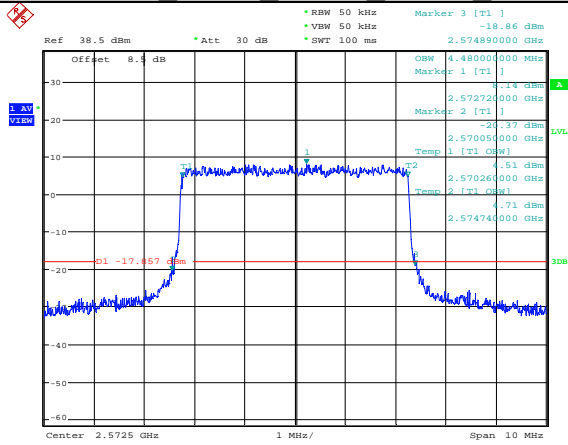
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Band17 10MHz 16QAM 23800 50RB#0

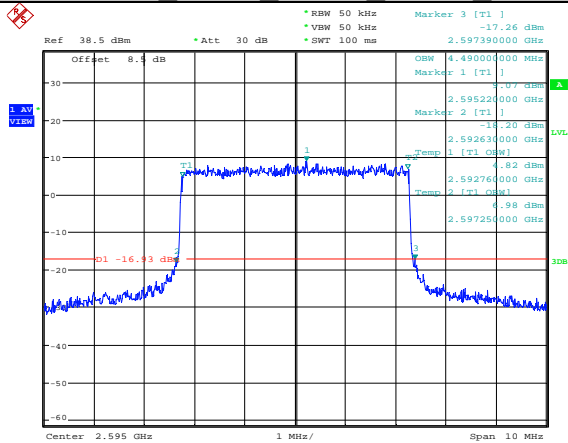


Band38_5MHz_QPSK_37775_25RB#0



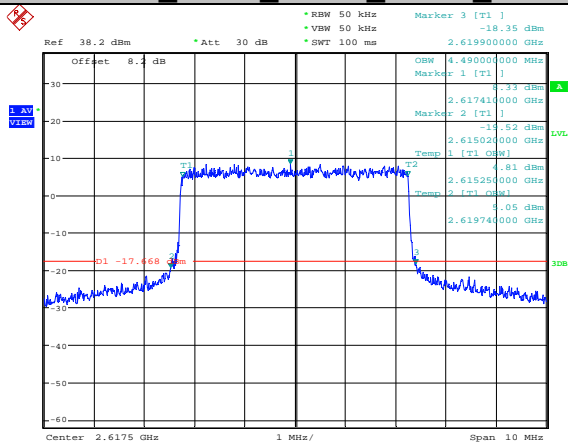
Date: 3.JUL.2019 13:35:03

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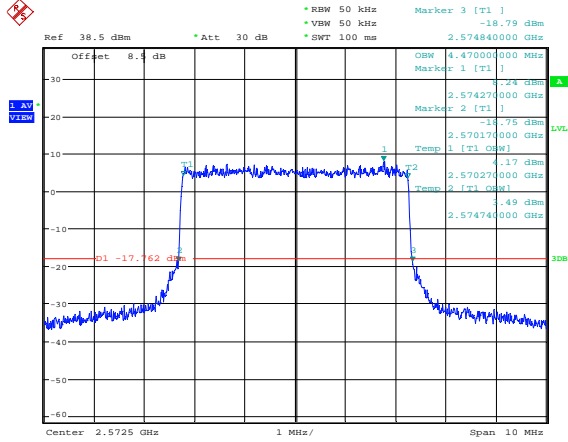
Date: 3.JUL.2019 13:36:44

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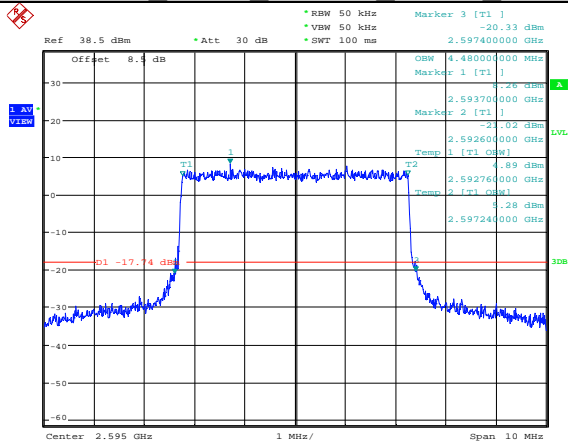
Date: 3.JUL.2019 13:37:20

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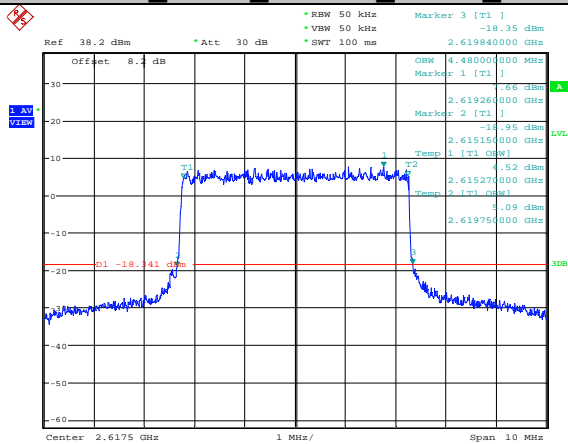
Date: 3.JUL.2019 13:35:20

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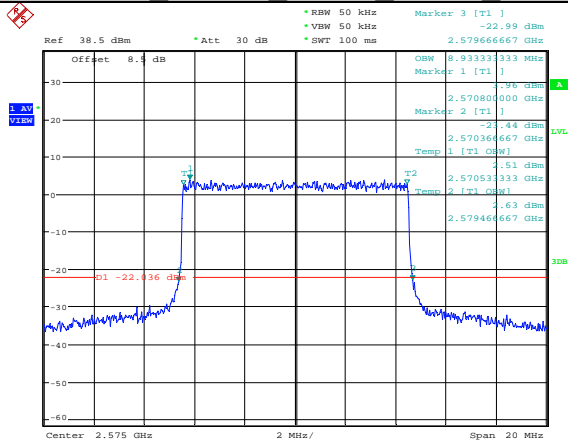
Date: 3.JUL.2019 13:37:01

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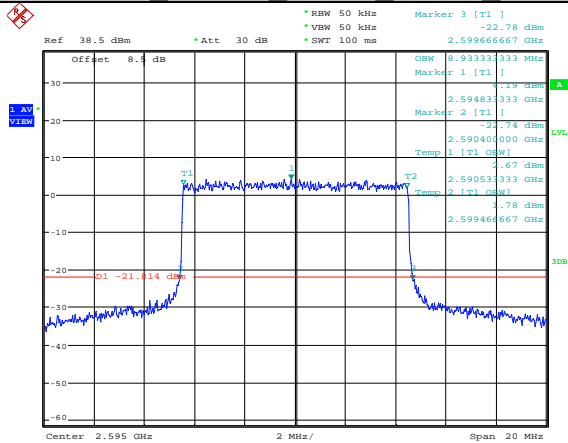
Date: 3.JUL.2019 13:37:37

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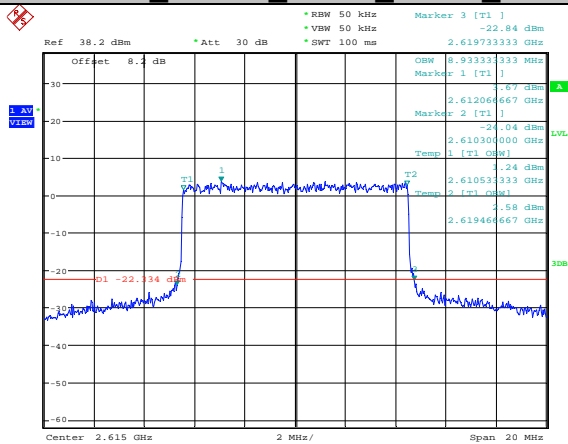
Date: 3.JUL.2019 13:42:16

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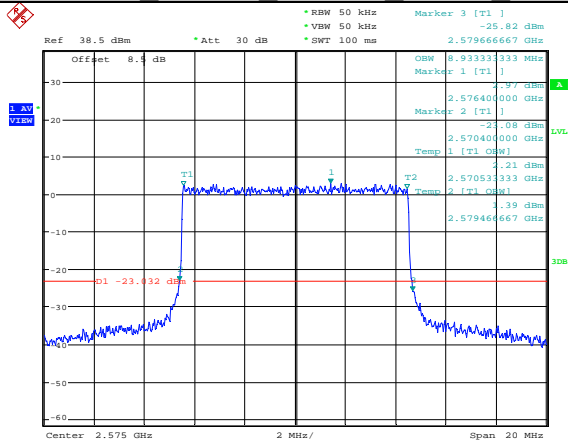
Date: 3.JUL.2019 13:43:28

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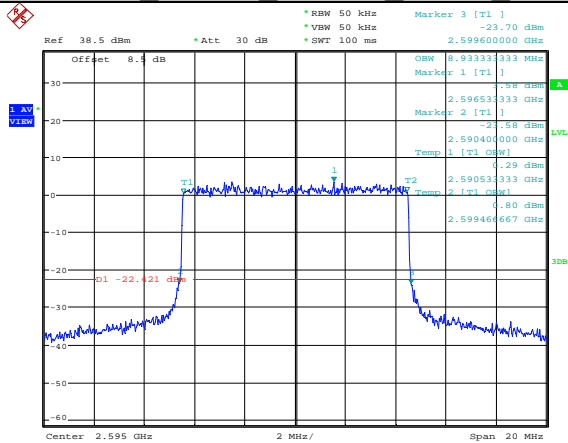
Date: 3.JUL.2019 13:43:50

Band38 10MHz 16QAM 37800 50RB#0



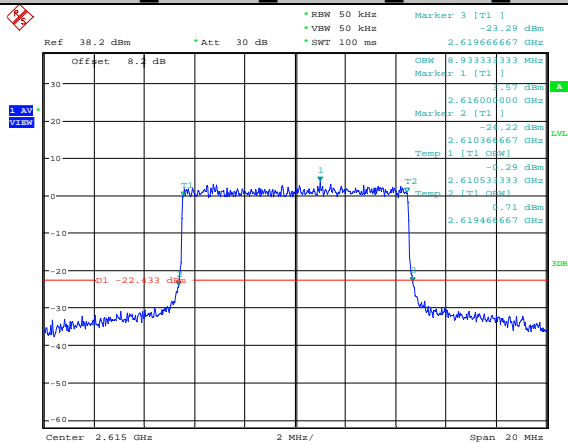
Date: 3.JUL.2019 13:42:26

Band38 10MHz 16QAM 38000 50RB#0



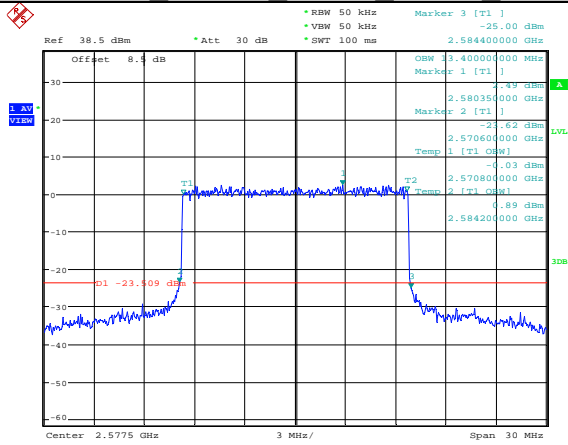
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Band38 10MHz 16QAM 38200 50RB#0



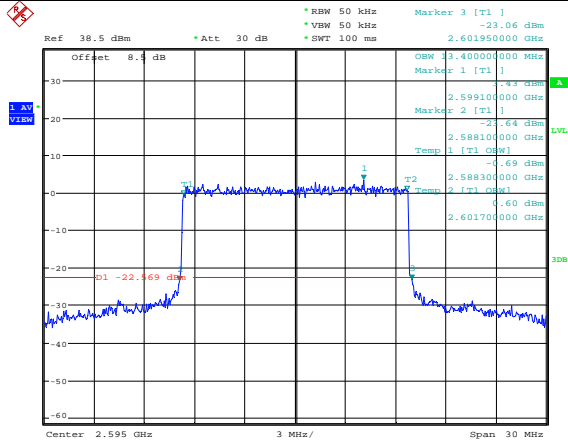
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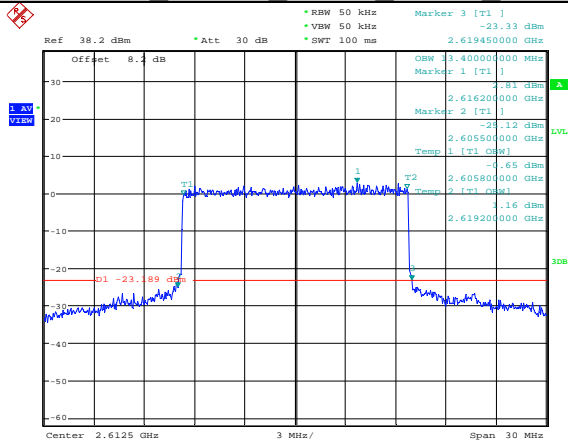
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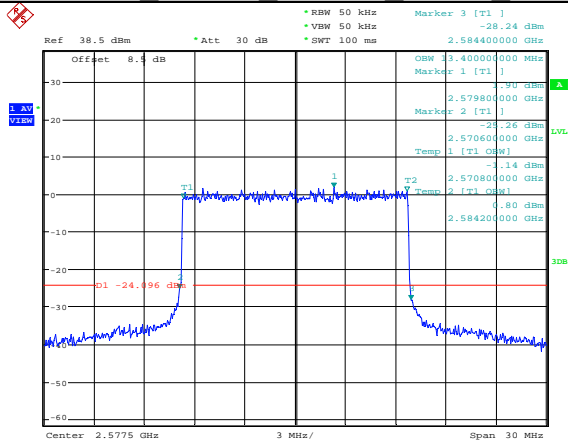
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Band38_15MHz_QPSK_38175_75RB#0



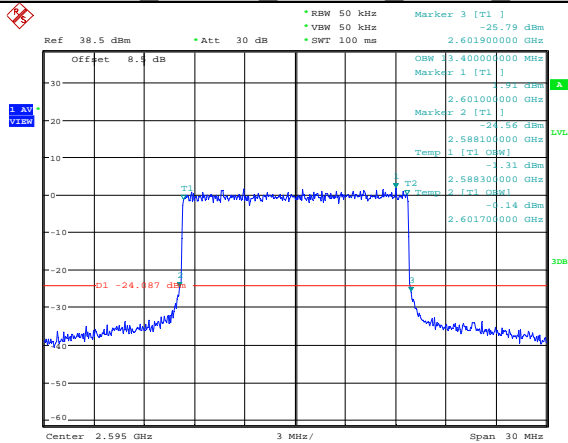
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Band38 15MHz 16QAM 37825 75RB#0



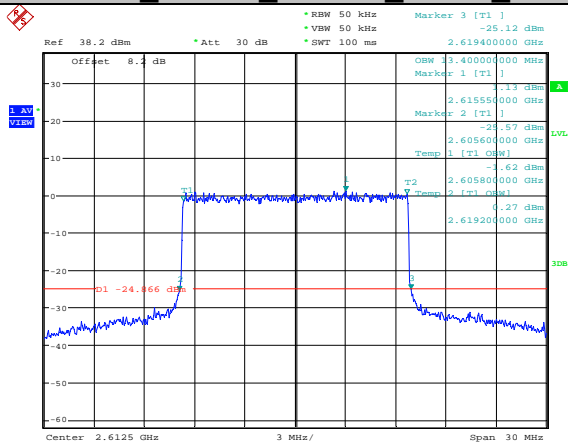
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Band38 15MHz 16QAM 38000 75RB#0



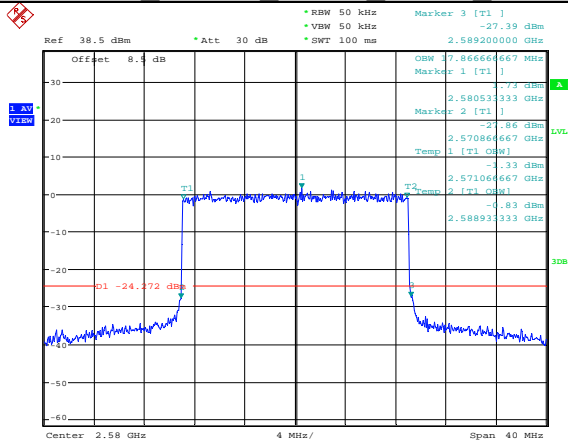
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Band38 15MHz 16QAM 38175 75RB#0



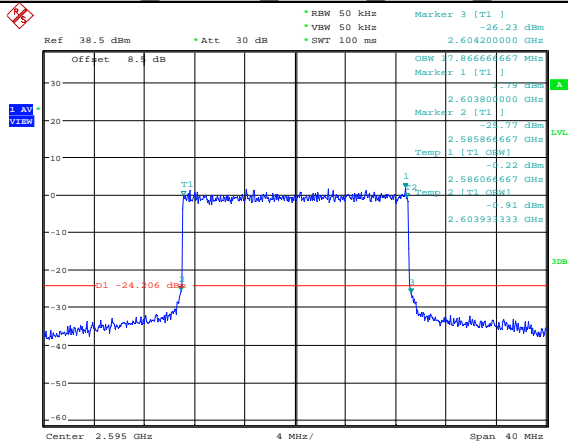
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Band38_20MHz_QPSK_37850_100RB#0



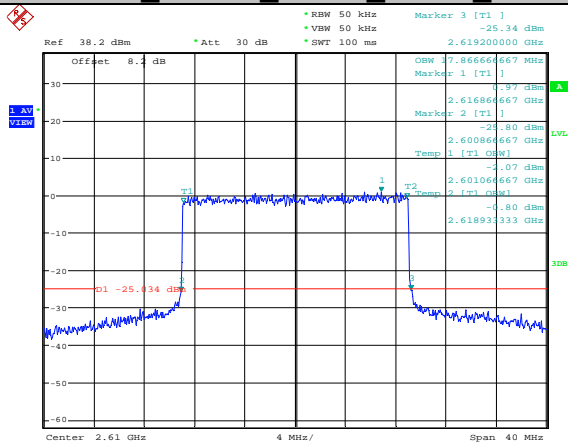
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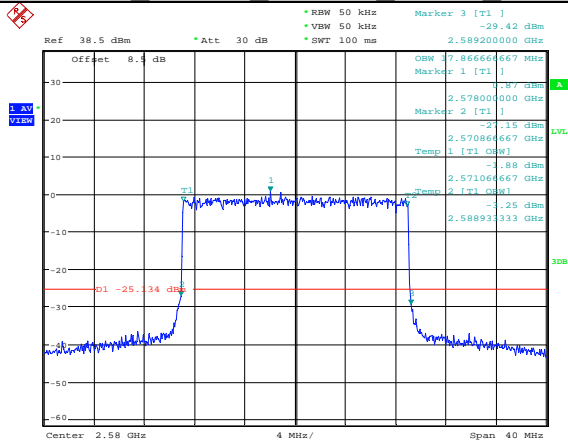
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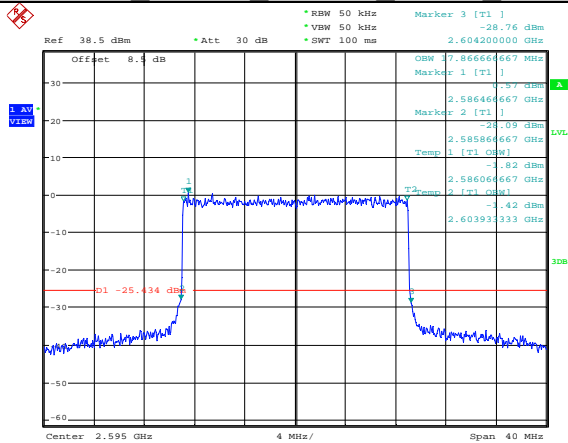
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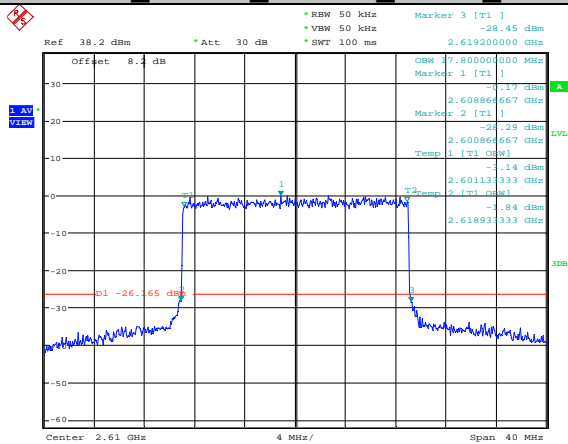
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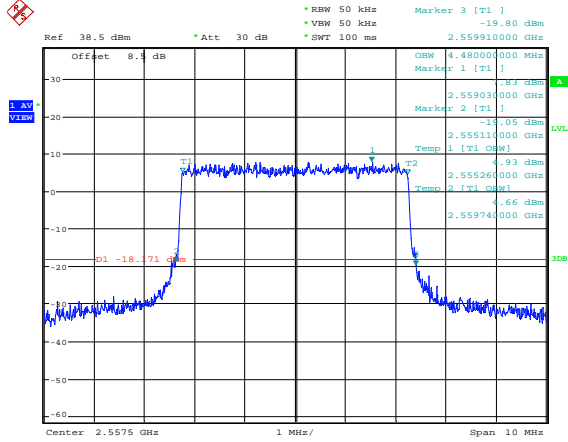
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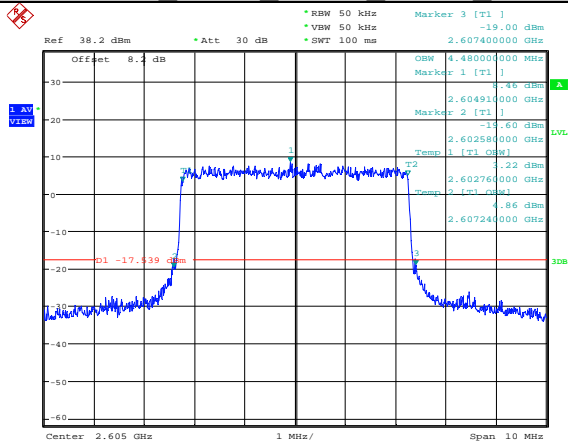
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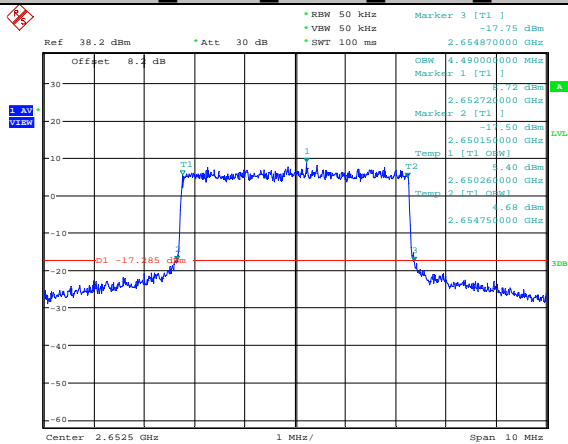
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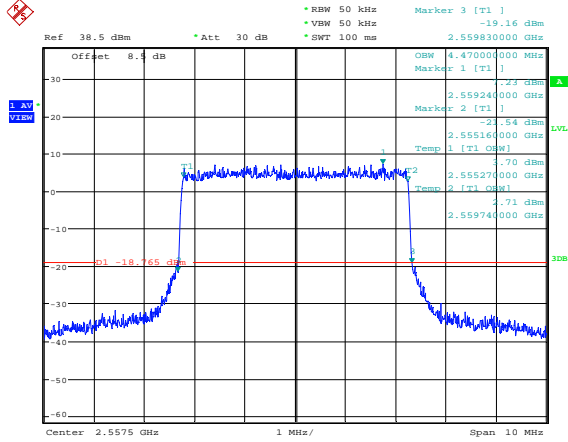
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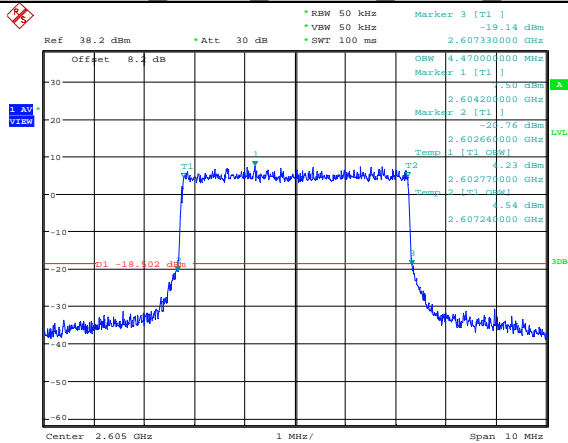
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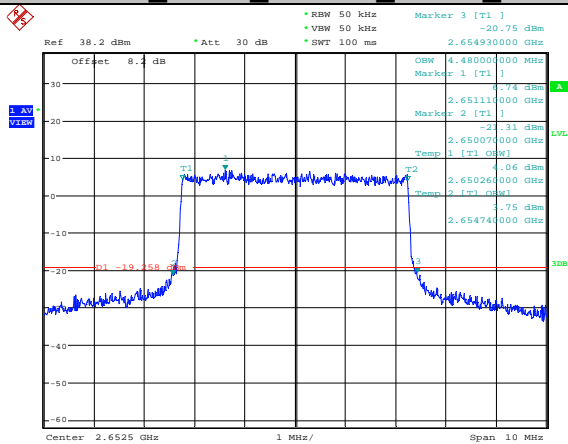
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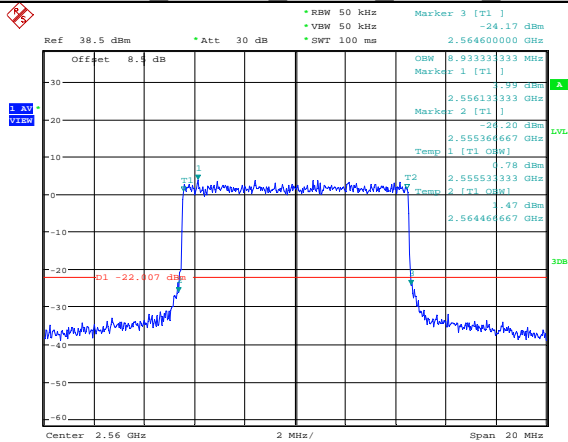
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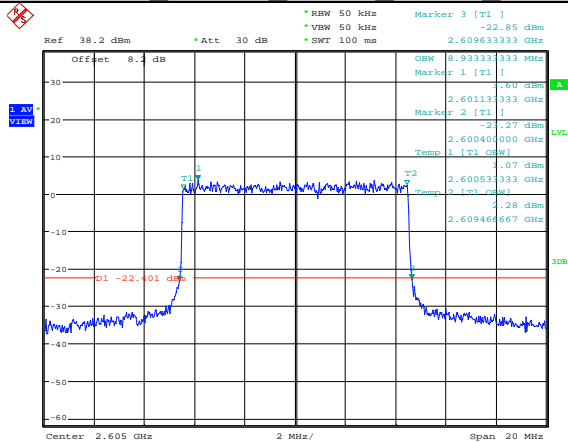
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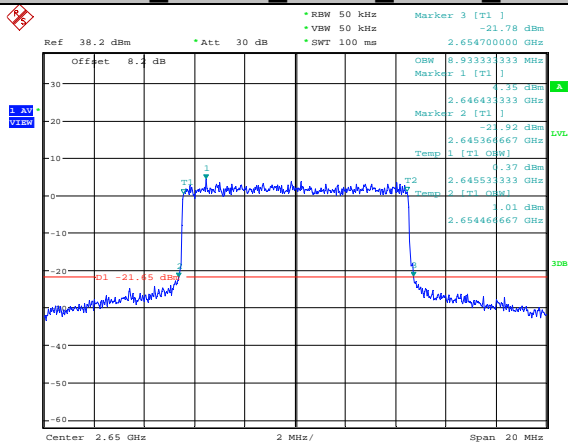
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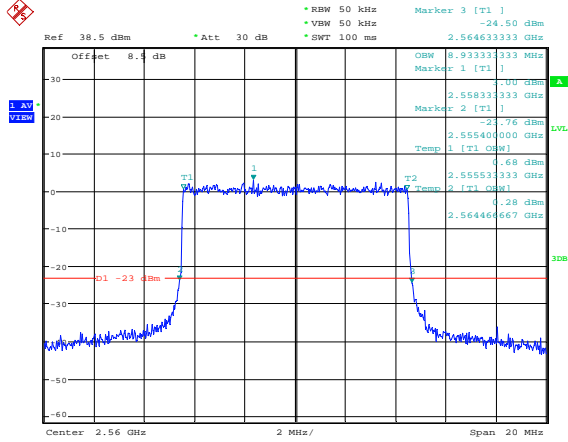
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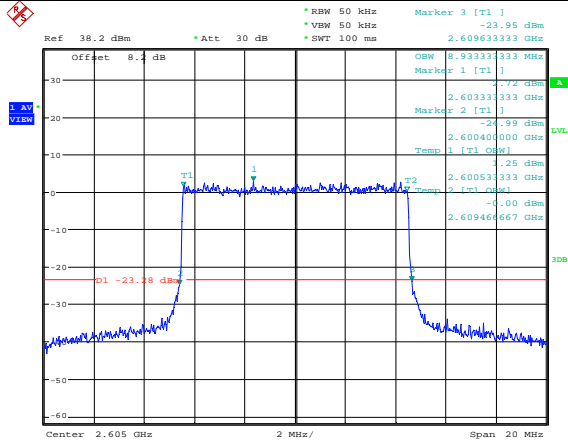
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Band41 10MHz 16QAM 40290 50RB#0



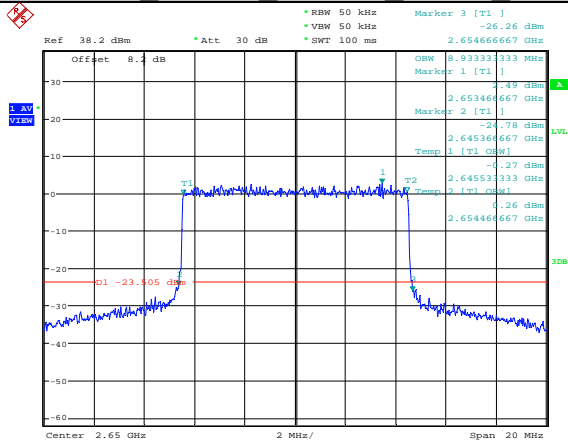
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Band41 10MHz 16QAM 40740 50RB#0



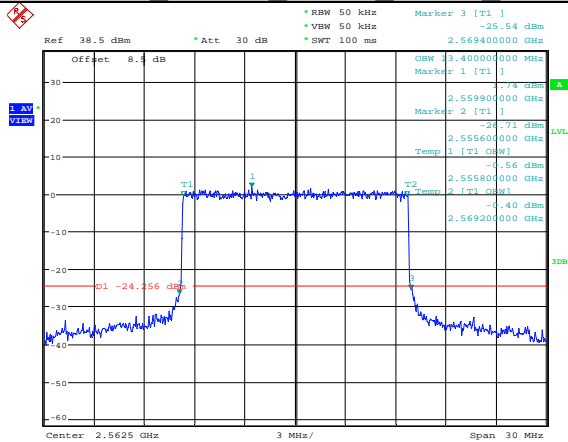
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Band41 10MHz 16QAM 41190 50RB#0



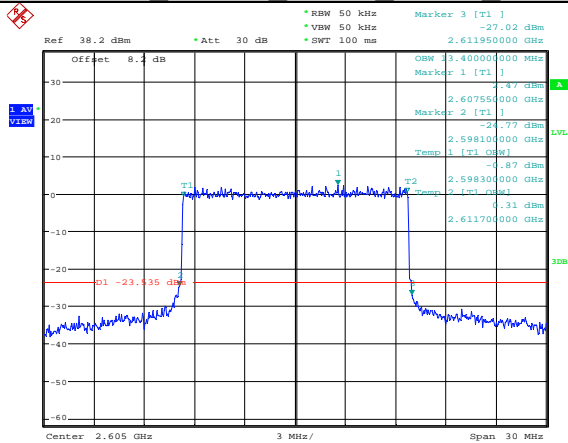
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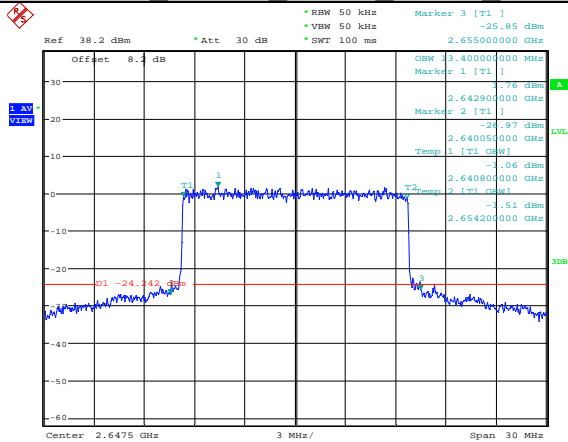
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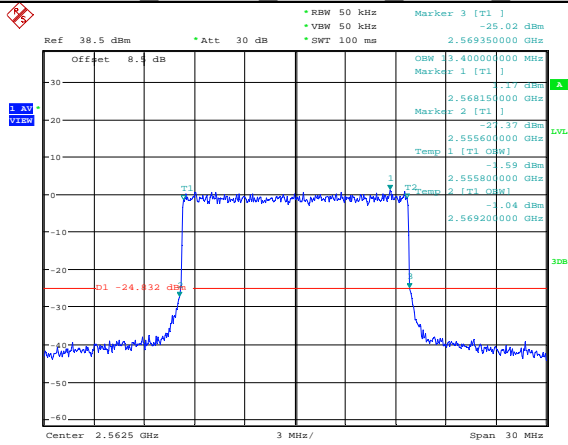
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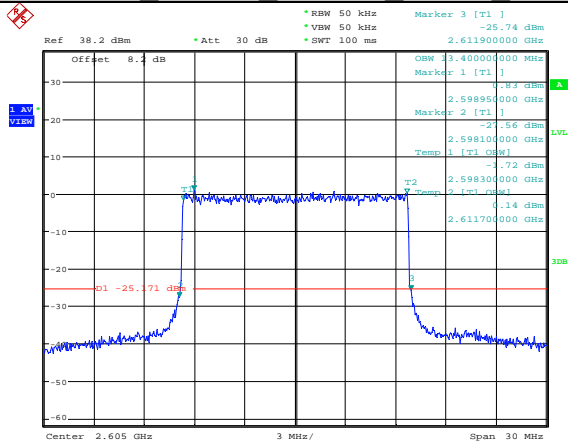
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Band41 15MHz 16QAM 40315 75RB#0



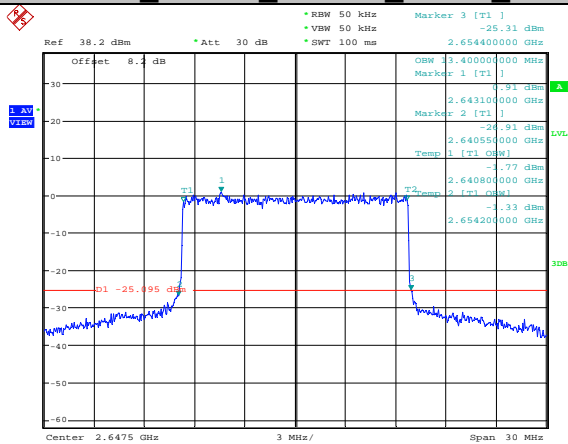
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Band41 15MHz 16QAM 40740 75RB#0



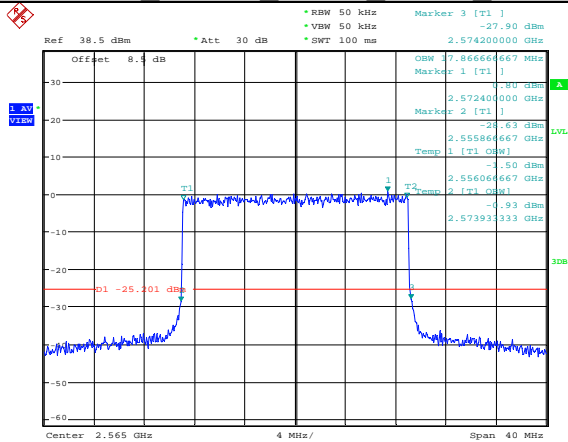
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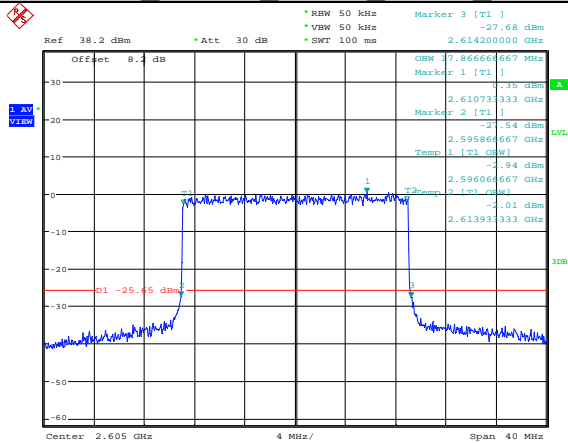
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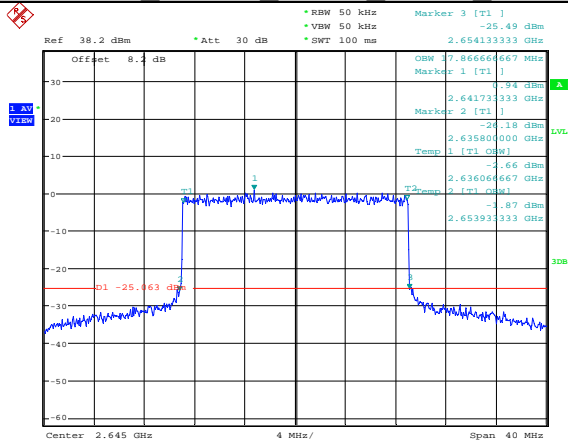
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Band41_20MHz_QPSK_40740_100RB#0



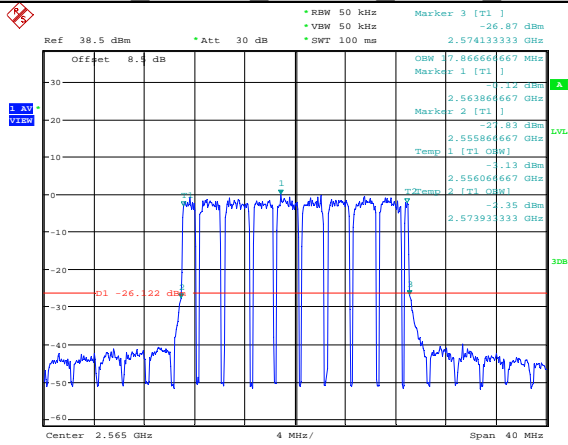
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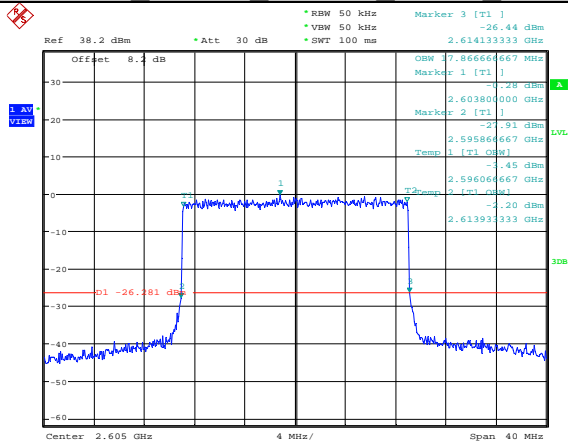
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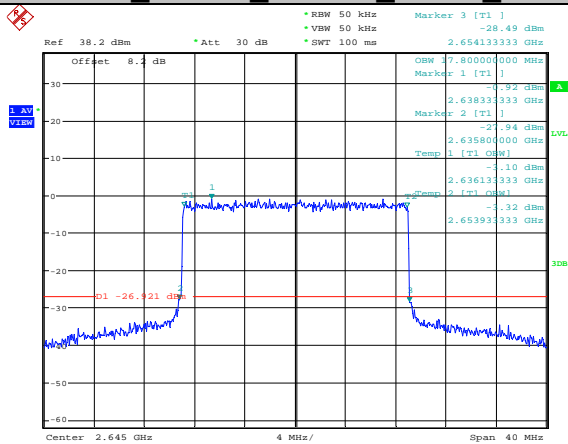
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Band41_20MHz_16QAM_40740_100RB#0



Date: 3.JUL.2019 15:09:02

Band41_20MHz_16QAM_41140_100RB#0



Date: 3.JUL.2019 15:10:29

5.4. Spurious Emission at Antenna Terminal

5.4.1. Test Standard

FCC: CFR Part 2.1051, CFR Part 22.917, CFR Part 24.238, CFR Part 27.53

5.4.2. Test Limit

The radio frequency voltage or power generated within the equipment and appearing on a spurious frequency shall be checked at the equipment output terminals when properly loaded with a suitable artificial antenna. Curves or equivalent data shall show the magnitude of each harmonic and other spurious emission that can be detected when the equipment is operated under the conditions specified in FCC 2.1049 as appropriate. The magnitude of spurious emissions which are attenuated more than 20 dB below the permissible value need not be specified.

(a) Out of band emissions. 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. For all power levels +30dBm to 0dBm, this becomes a constant specification of -13dBm.

FCC 22.917 Emission limitations for cellular equipment.

The rules in this section govern the spectral characteristics of emissions in the Cellular Radio telephone Service.

(b) Measurement procedure. Compliance with these provisions is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. In the 1MHz 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 of 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.

FCC 24.238 Emission limitations for Broadband PCS equipment.

The rules in this section govern the spectral characteristics of emissions in the Broadband Personal Communications Service.

(b) Measurement procedure. Compliance with these provisions 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. 100 kHz of 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.

FCC: §27.53

(c) For operations in the 746-758 MHz band and the 776-788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

(1) On any frequency outside the 746-758 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log (P)$ dB;

(2) On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log (P)$ dB;

(3) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $76 + 10 \log (P)$ dB in a 6.25 kHz band segment, for base and fixed stations;

(4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $65 + 10 \log (P)$ dB in a 6.25 kHz band segment, for mobile and portable stations;

(g) For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log (P)$ dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

(h) *AWS emission limits*—(1) *General protection levels*. Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10} (P)$ dB.

(m)(4) For mobile digital stations, the attenuation factor shall be not less than $43 + 10 \log (P)$ dB at the channel edge and $55 + 10 \log (P)$ dB at 5.5 megahertz from the channel edges. (Channel edges are defined under §27.5 (i) Frequency assignment for the BRS/EBS band)

(m)(6) Measurement procedure. 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. 100 kHz of 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.

5.4.3. Test Procedure

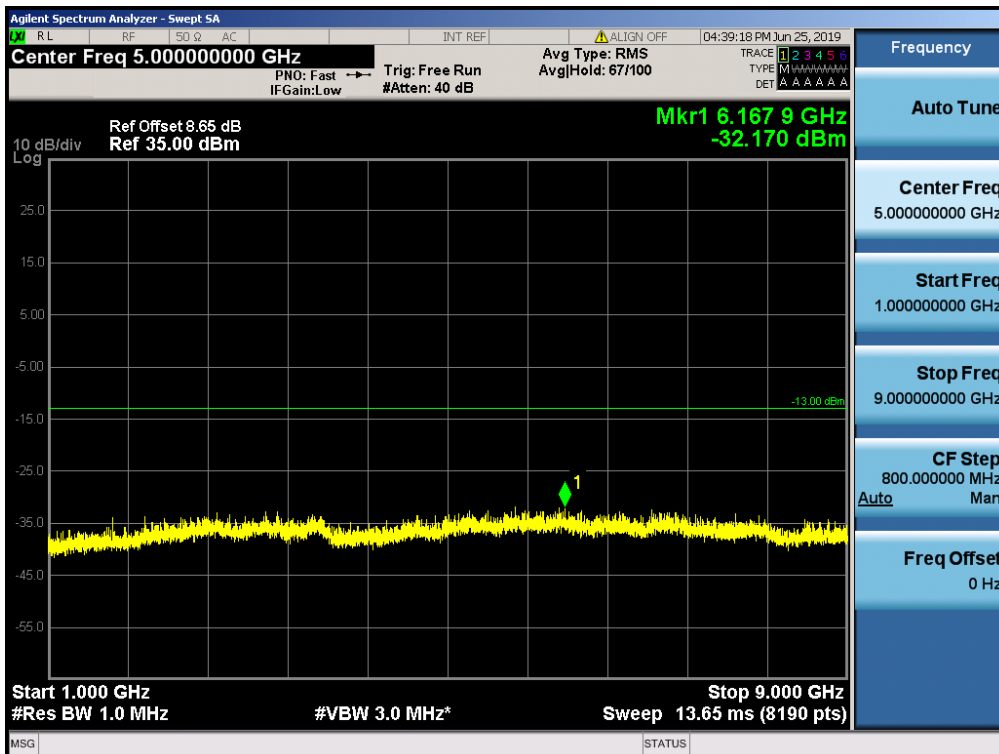
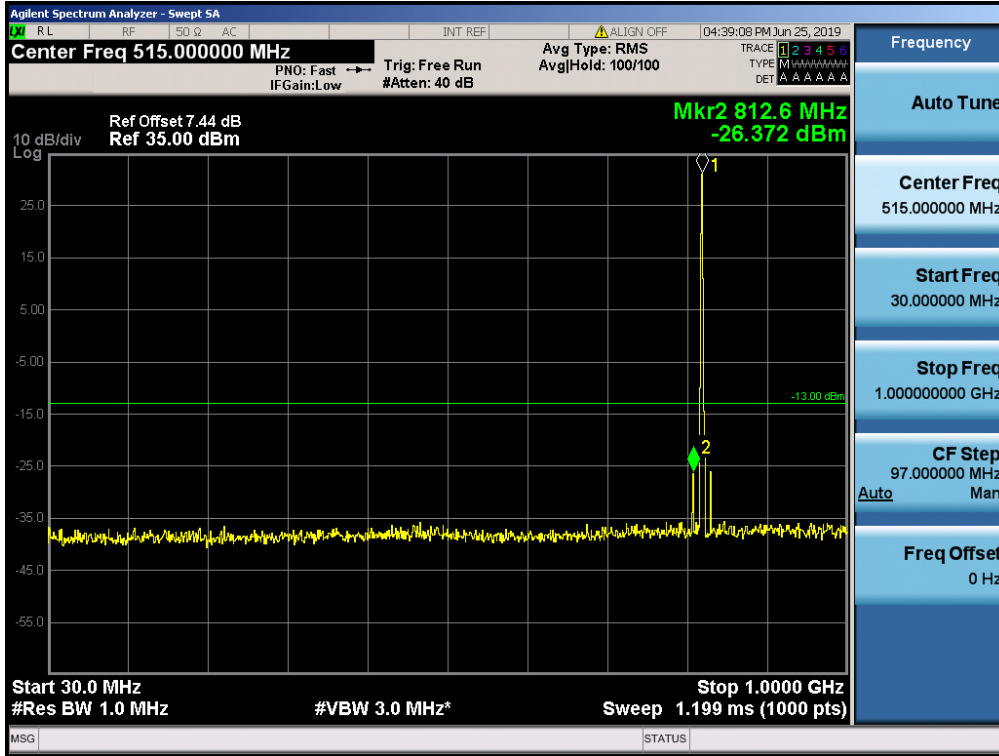
1. Connect the equipment as shown in the above diagram.
2. Set the spectrum analyzer to measure peak hold with the required settings.
3. Set the signal generator to a known output power and record the path loss in dB (LOSS) for frequencies up to the tenth harmonic of the EUT's carrier frequency.

LOSS = Generator Output Power (dBm) – Analyzer reading (dBm).

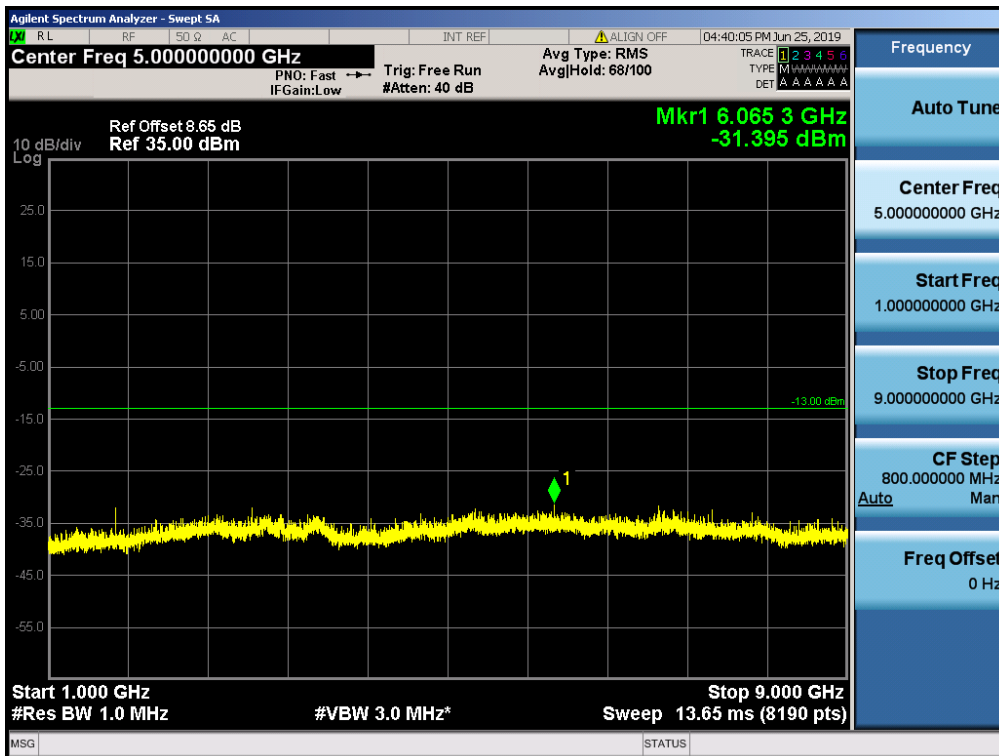
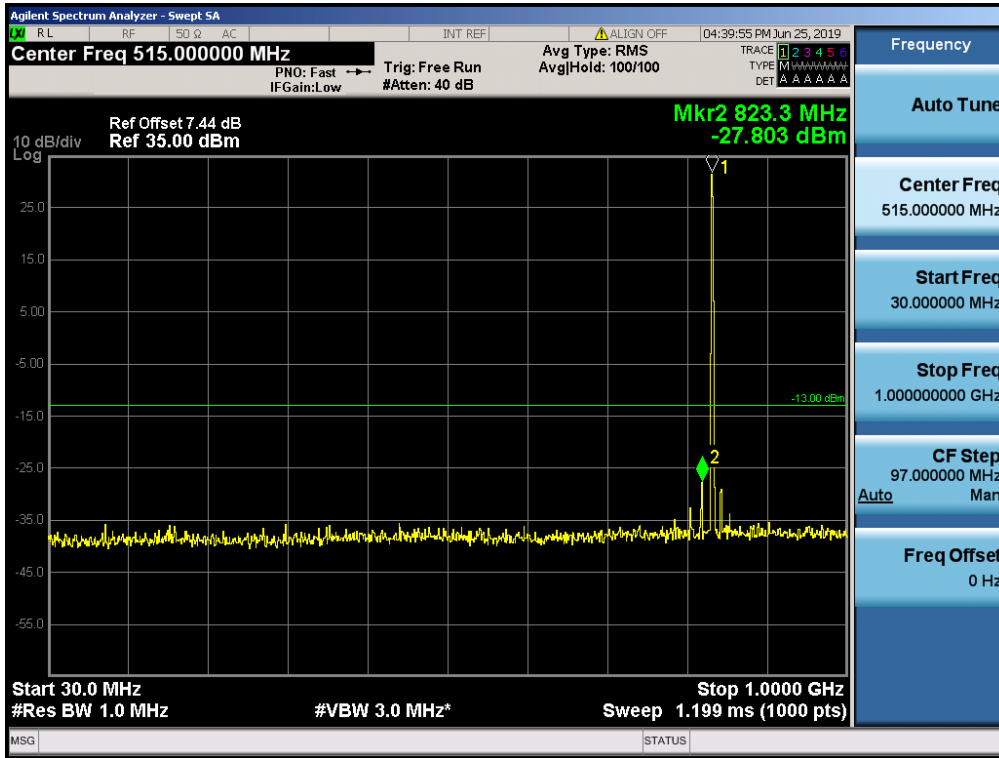
4. Replace the signal generator with the EUT.
 5. Adjust the settings of the Universal Radio Communication Tester (CMU) to set the EUT to its maximum power at the required channel.
 6. Set the spectrum analyzer to measure peak hold with the required settings. Offset the spectrum analyzer reference level by the path loss measured above.
 7. Measure and record all spurious emissions up to the tenth harmonic of the carrier frequency.
 8. Measurements are to be performed with the EUT set to the low, middle and high channel of each frequency band.
 9. If necessary steps 6 and 7 may be performed with the spectrum analyzer set to average detector.
- (Note: Step 3 above is performed prior to testing and LOSS is recorded by test software. Steps 2, 6, and 7 above are performed with test software.)

5.4.4. Test Data

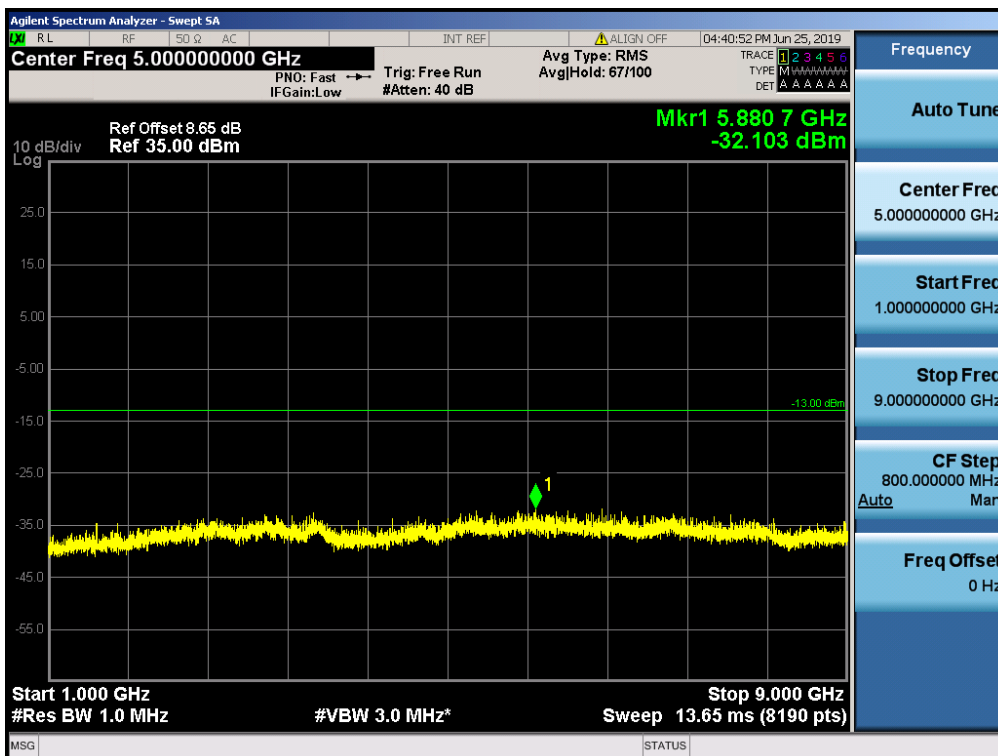
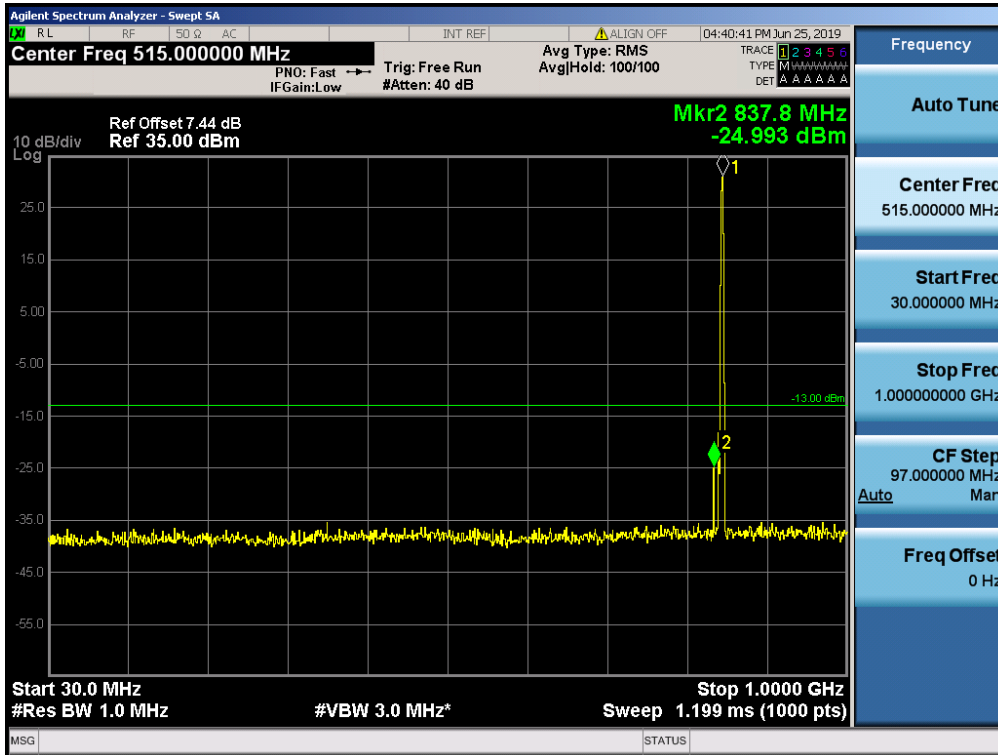
Out of band measurement
 Test Band = GSM850
 Test Mode = GSM /TM1
 Test Channel = LCH



Out of band measurement
 Test Band = GSM850
 Test Mode = GSM /TM1
 Test Channel = MCH



Out of band measurement
 Test Band = GSM850
 Test Mode = GSM /TM1
 Test Channel = HCH



Out of band measurement
 Test Band = GSM850
 Test Mode = EDGE /TM2
 Test Channel = LCH

