

TEST REPORT

REPORT NUMBER: B19W50598-WWAN_Rev1

ON

Type of Equipment: LTE /HSPA/GSM/GNSS MODULE

Model Name: SIM7600G/SIM7600G miniPCIE

Manufacturer: SIMCom Wireless Solutions Limited

ACCORDING TO

FCC CFR Part 2, FREQUENCY ALLOCATIONS AND RADIO TREATY MATTERS; GENERAL RULES AND REGULATIONS; e-CFR, Mar 17, 2015

PART 22, PUBLIC MOBILE SERVICES , e-CFR, Mar 17, 2015

PART 24, PERSONAL COMMUNICATIONS SERVICES, e-CFR, Mar 17, 2015

PART 27,MISCELLANEOUS WIRELESS COMMUNICATIONS SERVICES,e-CFR, Aug. 15, 2014

PART 90,PRIVATE LAND MOBILE RADIO SERVICES, e-CFR, Jan. 26, 2012

RSS-Gen — General Requirements for Compliance of Radio Apparatus., November 13, 2014

RSS-130 Mobile Broadband Services (MBS) Equipment Operating in the Frequency Bands 698-756 MHz and 777-787 MHz, October 2013

RSS-132 — Cellular Telephone Systems Operating in the Bands 824-849 MHz and 869-894 MHz, Issue 3, January 2013

RSS-133 — 2 GHz Personal Communications Services, Issue 6, January 2013

RSS-139 — Advanced Wireless Services (AWS) Equipment Operating in the Bands 1710-1780 MHz and 2110-2180 MHz, Issue 3, February 2015

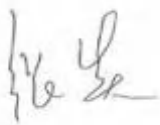
RSS-199 Broadband Radio Service (BRS) Equipment Operating in the Band 2500-2690 MHz, Issue 3, October 2016

Chongqing Academy of Information and Communications Technology

Month date, year

Mar, 10, 2020

Signature



Zhang Yan
Director

Chongqing Academy of Information and Communications Technology

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Note:

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of Chongqing Academy of Information and Communications Technology.

Revision Version

Report Number	Revision	Date	Memo
B19W50598	V0.0	2020-03-07	--
B19W50598	V1.0	2020-03-10	--

Chongqing Academy of Information and Communications Technology

Report No.:B19W50598-WWAN_Rev1

FCC ID: 2AJYU-8PYA004

ISED: 23761-8PYA005

Report Date: 2020-03-10

Test Firm Name: Chongqing Academy of Information and Communications Technology

FCC Registration Number: CN1239

ISED: Registration Number: 11590A

Statement

The measurements shown in this report were made in accordance with the procedures described on test pages. All reported tests were carried out on a sample equipment to demonstrate limited compliance with FCC CFR 47 Parts 2, 22, 24, 27, 90 and RSS-Gen, 130, 132, 133, 139 and 199 , The sample tested was found to comply with the requirements defined in the applied rules.

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31 General Information

1.1 Notes

All reported tests were carried out on a sample equipment to demonstrate limited compliance with FCC CFR 47 Parts 2, 22, 24, 27, 90 and RSS-Gen, 130, 132, 133, 139 and 199.

The test results of this test report relate exclusively to the item(s) tested as specified in section 2.

The following deviation from, additions to, or exclusions from the test specifications have been made. See Annex B.

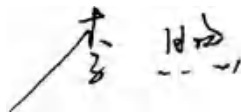
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1.2 Testers

Name: Li Xu
Position: Engineer
Department: Department of RF test
Date: 2019-11-11 to 2020-03-07

Signature:



Editor of this test report:

Name: Chen Wen
Position: Engineer
Department: Department of RF test
Date: 2020-03-10

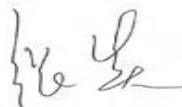
Signature:



Technical responsibility for area of testing:

Name: Zhang Yan
Position: Manager
Department: Director of the laboratory
Date: 2020-03-10

Signature:



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1.3 Testing Laboratory information

1.3.1 Location

Name: Chongqing Academy of Information and Communications Technology

Address: Building B, Technology Innovation Center, No.8, Yuma Road, Chayuan New Area, Nan'an District, Chongqing, People's Republic of China, 401336

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1.3.2 Test location, where different from section 1.3.1

Name: -----

Street: -----

City: -----

Country: -----

Telephone: -----

Fax: -----

Postcode: -----

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1.4 Details of applicant or manufacturer

1.4.1 Applicant

Name: SIMCom Wireless Solutions Limited
Address: No.633 Jinzhong Road,Shanghai
Country: China
Telephone: +86-21-32523020
Fax: +86-21-32523020
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1.4.2 Manufacturer (if different from applicant in section 1.4.1)

Name: --
Address: --
Country: --
Telephone: --
Fax: --
Contact: --
Telephone: --
Email: --

2 Test Item

2.1 General Information

Manufacturer: SIMCom Wireless Solutions Limited
 Type of Equipment: LTE /HSPA/GSM/GNSS MODULE
 Model Name: SIM7600G/SIM7600G miniPCIE
 Production Status: Product
 Hardware Version: V1.02
 Software Version: SIM7600M21-A_V2.0
 Receipt date of test item: 2019-11-11

2.2 Outline of Equipment under Test

The SIM7600G/SIM7600G miniPCIE, referred to as “EUT” hereafter, is a multi-Band wireless module operating on the GSM/WCDMA/LTE networks. The table below shows the supported Bands for the EUT.

Technology	Band	UL Freq.(MHz)	DL Freq.(MHz)	Note
GSM	GSM850	824 – 849	869 – 894	--
	PCS1900	1850 – 1910	1930 – 1990	--
WCDMA	B2	1850 – 1910	1930 – 1990	--
	B4	1710 – 1755	2110 – 2155	--
	B5	824 – 849	869 – 894	--
LTE	B2	1850 – 1910	1930 – 1990	Covered by B25 (B2 is a subset of B25. Both bands share the same hardware and have the same radio performance. Separate measurement in B2 is not required.)
	B4	1710 – 1755	2110 – 2155	Covered by B66 (B4 is a subset of B66. Both bands share the same hardware and have the same radio performance. Separate measurement in B4 is not required.)
	B5	824 – 849	869 – 894	Covered by B26 (B5 is a subset of B26. Both bands share the

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				same hardware and have the same radio performance. Separate measurement in B5 is not required.)
	B7	2500-2570	2620-2690	--
	B12	699 – 716	729 – 746	--
	B13	777 - 787	746 - 756	--
	B25	1850-1915	1930-1995	--
	B26	814-849	859-894	--
	B41	2496-2690	2496-2690	--
	B66	1710-1780	2110-2200	--

2.3 Modifications Incorporated in EUT

The EUT has not been modified from what is described by the brand name and unique type identification stated above.

2.4 Equipment Configuration

Equipment configuration list:

Item	Generic Description	Manufacturer	Type	Serial No.	Remarks
A	Modules	SIMCom Wireless Solutions Limited	SIM7600G/SIM 7600G miniPCIE	868822040009761	None
B	Modules	SIMCom Wireless Solutions Limited	SIM7600G/SIM 7600G miniPCIE	868822040004135	None

2.5 Other Information

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3 Summary of Test Results

A brief summary of the tests carried out is shown as following.

FCC Rules	IC Standards	Name of Test	Result
2.1046,22.913(a),24.232(c),27.50, 90.635(b)	RSS-130 4.4 RSS-132 4.4 RSS-133 6.4 RSS-139 4.4 RSS-199 4.4	Conducted RF Power Output	Pass
2.1049,22.917(b), 24.238(b)	RSS-Gen 6.6	Occupied Bandwidth	*Note 1
2.1051,24.238,2.1053,22.917, 27.53,90.691	RSS-130 4.6 RSS-132 4.5 RSS-133 6.5 RSS-199 4.6	Conducted spurious emissions	Pass
2.1051,24.238,2.1053,22.917, 27.53,90.691	RSS-130 4.6 RSS-132 4.5 RSS-133 6.5 RSS-199 4.6	Radiated Spurious Emission	Pass
2.1051,24.238, 2.1053, 22.917, 27.53,90.691	RSS-130 4.6 RSS-132 4.5 RSS-133 6.5 RSS-199 4.6	Band Edge	Pass
2.1055, 22.355, 24.235, 27.54,90.213	RSS-130 4.3 RSS-132 4.3 RSS-133 6.3 RSS-199 4.3	Frequency Stability over Temperature Variation	Pass
2.1055, 22.355, 24.235, 27.54,90.213	RSS-130 4.3 RSS-132 4.3 RSS-133 6.3 RSS-199 4.3	Frequency Stability over Voltage Variation	Pass
24.232, 27.50	RSS-130 4.4	Peak to Average Ratio	Pass
2.1046,22.913(a),24.232(c),27.50, 90.635(b)	RSS-130 4.4 RSS-132 4.4 RSS-133 6.4 RSS-139 4.4 RSS-199 4.4	ERP and EIRP	Pass
Note 1: No applicable performance criteria.			

4 Test Equipments and Ancillaries Used For Tests

The test equipments and ancillaries used are as follows.

No.	Equipment	Model	SN	Manufacture	Cal. Due Date
1	EMI Test Receiver	ESU26	100367	R&S	2021-02-28
2	Trilog super broadBand test antenna	VULB 9163	9163-544	R&S	2020-11-23
3	Double-Ridged Horn Antenna	HF907	100356	R&S	2021-06-22
4	Fully-Anechoic Chamber	11.8m×6.5m×6.3m	--	ETS	2022-10-22
5	Universal Radio Communication Tester	CMW500	152395	R&S	2021-02-28
6	Signal Generator	SMU200A	104517	R&S	2021-02-28
7	spectrum analyzer	FSQ 26	201137/026	R&S	2021-02-28
8	spectrum analyzer	N9020A	MY50200376	Agilent	2021-02-28
9	Universal Radio Communication Tester	CMU200	112012	R&S	2021-02-28
10	Climate chamber	SH-241	92010759	ESPEC	2021-02-28
11	DC Power Supply	N6705B	MY50000919	Agilent	2020-12-04

5 Test Results

5.1 Conducted RF Power Output

Specifications:	FCC Part 2.1046, 22.913(a), 24.232(c), 27.50, 90.635(b) RSS-130 4.4, RSS-132 4.4, RSS-133 6.4, RSS-139 4.4, RSS-199 4.4
DUT Serial Number:	868822040009761
Test conditions:	Ambient Temperature:15℃-35℃ Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	Pass

Limit Level Construction:

According to Part 22.913(a), the ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.

According to Part24.232(c), mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.

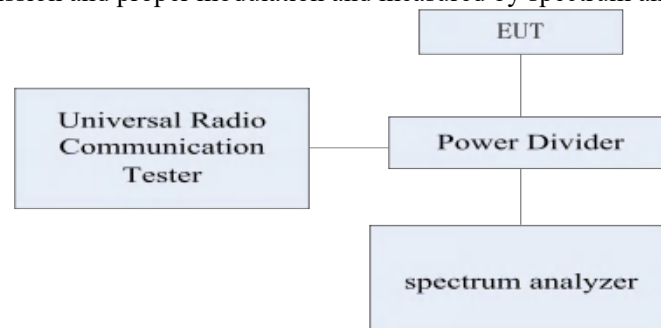
According to Part 27.50(c), portable stations (hand-held devices) in the 600 MHz uplink Band and the 698-746 MHz Band, and fixed and mobile stations in the 600 MHz uplink Band are limited to 3 watts ERP.

According to Part 27.50(d), fixed, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz Band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz Bands are limited to 1 watt EIRP.

According to Part 90.635(b), The maximum output power of the transmitter for mobile stations is 100 watts (20 dBw).

Test Setup:

During the test, the EUT was controlled via the Wireless Telecommunications Test Set to ensure max power transmission and proper modulation and measured by spectrum analyzer.



Test Method:

1) The EUT was coupled to the spectrum analyzer and the Wireless Telecommunications Test Set through a power divider. The loss of the RF cables of the test system is calibrated to correct the

readings.

2) For RMS power test, the spectrum analyzer was set to RMS Detector function and Maximum hold mode.

3) For Peak power test, the spectrum analyzer was set to Maxpeak Detector function and Maximum hold mode.

4) The resolution Bandwidth of the spectrum analyzer was comparable to the emission Bandwidth.

Note: --

5.1.1 GSM850 Conducted RF Power Output Results

GPRS GMSK Mode:

Channel No.	Maximum output power(pk) [dBm]			
	1TS	2TS	3TS	4TS
128 (824.2MHz)	32.94	31.02	29.4	27.9
190 (836.6MHz)	33.02	31.13	29.5	27.7
251 (848.8MHz)	33.12	30.91	29.2	27.6

EGPRS GMSK Mode

Channel No.	Maximum output power(pk)			
	1TS	2TS	3TS	4TS
128 (824.2MHz)	33.24	30.91	29.18	27.57
190 (836.6MHz)	33.28	30.98	29.30	27.81
251 (848.8MHz)	32.72	30.75	29.01	27.24

EGPRS 8PSK Mode

Channel No.	Maximum output power(pk) [DBMS]			
	1TS	2TS	3TS	4TS
128 (824.2MHz)	30.13	29.12	27.41	26.13
190 (836.6MHz)	30.11	29.01	27.43	26.21
251 (848.8MHz)	29.82	28.73	27.24	26.02

5.1.2 PCS1900 Conducted RF Power Output Results

GPRS GMSK Mode

Channel No.	Maximum output power(pk) [DBMS]			
	1TS	2TS	3TS	4TS
512 (1850.2MHz)	28.6	27.1	25.5	22.7
661 (1880.0MHz)	27.8	26.1	24.6	22.4
810 (1909.8MHz)	28.1	26.5	24.8	22.6

EGPRS GMSK Mode

Channel No.	Maximum output power(pk) [dBm]			
	1TS	2TS	3TS	4TS
512 (1850.2MHz)	28.8	27.3	25.5	22.9
661 (1880.0MHz)	28.0	26.3	24.6	22.4
810 (1909.8MHz)	28.2	26.5	25.2	22.7

EGPRS 8PSK Mode

Channel No.	Maximum output power(pk) [dBm]			
	1TS	2TS	3TS	4TS
512 (1850.2MHz)	28.2	26.9	25.1	23.8
661 (1880.0MHz)	26.8	25.9	24.4	23.2
810 (1909.8MHz)	27.1	26.2	24.5	23.5

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5.1.3 WCDMA Band2 Conducted RF Power Output Results

		Maximum output power(pk) [dBm]			Maximum output power(RMS) [dBm]		
Mode	3GPP Subtest	9262	9400	9538	9262	9400	9538
RMC	--	26.52	26.49	26.66	22.85	22.76	22.92
HSDPA	1	26.05	26.12	26.33	21.59	21.52	21.66
	2	26.08	25.92	26.03	21.34	21.15	21.26
	3	25.68	25.31	26.06	21.17	21.05	20.95
	4	25.92	25.37	25.76	21.03	20.82	20.77
HSUPA (QPSK)	1	26.07	26.35	26.13	21.18	21.09	21.27
	2	25.97	25.85	25.53	21.27	21.13	21.02
	3	25.82	25.76	26.17	21.12	20.96	21.05
	4	25.93	26.29	26.30	20.85	20.94	20.77
	5	25.64	25.39	26.06	20.53	20.69	20.76
HSUPA (16QAM)	1	25.77	25.48	25.63	21.35	21.19	21.37
	2	25.40	25.51	25.26	21.17	21.09	21.07
	3	25.86	25.43	26.07	20.95	21.06	21.08
	4	25.45	25.28	25.52	20.75	20.82	20.73
	5	25.39	25.74	25.61	20.49	20.65	20.85

5.1.4 WCDMA Band4 Conducted RF Power Output Results

		Maximum output power(pk) [dBm]			Maximum output power(RMS) [dBm]		
Mode	3GPP Subtest	1312	1412	1512	1312	1412	1512
RMC	--	26.27	26.44	26.58	23.15	22.87	23.21
HSDPA	1	26.03	25.78	25.89	21.84	21.69	21.77
	2	25.93	26.14	25.85	21.76	21.65	21.81
	3	25.48	25.87	25.69	21.57	21.43	21.52
	4	25.77	25.89	25.56	21.31	21.22	21.14
HSUPA (QPSK)	1	25.56	25.48	25.92	21.64	21.73	21.77
	2	25.63	26.18	25.32	21.82	21.67	21.75
	3	25.40	25.25	25.37	21.44	21.63	21.49
	4	25.85	25.66	25.86	21.31	21.28	21.42
	5	25.46	25.85	25.61	21.27	21.16	21.08

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HSUPA (16QAM)	1	25.88	25.36	25.59	21.69	21.51	21.59
	2	25.46	25.51	25.76	21.76	21.66	21.81
	3	25.39	25.02	25.45	21.52	21.57	21.65
	4	25.62	25.57	25.38	21.47	21.36	21.43
	5	25.55	25.25	25.48	21.05	21.26	20.17

5.1.5 WCDMA Band5 Conducted RF Power Output Results

		Maximum output power(pk) [dBm]			Maximum output power(RMS) [dBm]		
Mode	3GPP Subtest	4132	4182	4233	4132	4182	4233
RMC	--	26.47	26.79	26.37	23.04	23.27	23.19
HSDPA	1	26.09	25.87	25.76	21.86	21.75	22.02
	2	26.02	25.74	25.91	21.67	21.52	21.73
	3	25.43	25.28	25.67	21.96	22.07	21.79
	4	25.49	25.66	25.31	21.71	21.68	21.53
HSUPA (QPSK)	1	26.06	25.64	25.52	22.02	21.89	21.95
	2	25.75	25.40	25.53	22.16	22.14	21.85
	3	25.69	25.36	25.44	21.86	21.92	21.79
	4	25.83	26.04	25.75	21.83	21.64	21.78
	5	25.77	25.26	25.49	21.78	21.57	21.66
HSUPA (16QAM)	1	25.35	25.63	25.43	21.99	22.18	22.09
	2	25.87	25.14	25.55	21.69	21.85	21.96
	3	25.38	25.46	25.27	22.21	21.94	21.81
	4	25.19	25.62	25.40	21.69	21.87	21.53
	5	25.56	25.89	25.63	21.67	21.98	21.74

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5.1.6 LTE B7 Conducted RF Power Output Results

Test Data (5MHz bandwidth Mode)

Channel	Frequency (MHz)	No.RB	RB START	Modulation	Max Power(RMS)	Max Power (PK)	PAR
20775	2502.5	1	0	QPSK	23.23	27.62	4.39
		1	13		23.08	27.6	4.52
		1	24		23.28	27.61	4.33
		25	0		22.37	28.05	5.68
		1	0	16QAM	22.86	27.84	4.98
		1	13		22.92	27.79	4.87
		1	24		22.88	27.82	4.94
		25	0		21.34	27.76	6.42
21100	2535	1	0	QPSK	23.38	27.92	4.54
		1	13		23.22	27.70	4.48
		1	24		23.28	27.85	4.57
		25	0		22.38	27.95	5.57
		1	0	16QAM	22.15	27.65	5.50
		1	13		21.97	27.52	5.55
		1	24		22.52	27.96	5.44
		25	0		21.51	27.90	6.39
21425	2567.5	1	0	QPSK	23.37	27.32	3.95
		1	13		23.60	26.45	2.85
		1	24		23.40	24.98	1.58
		25	0		22.63	27.19	4.56
		1	0	16QAM	22.17	27.09	4.92
		1	13		22.32	26.50	4.18
		1	24		22.44	25.27	2.83
		25	0		21.73	27.36	5.63

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Test Data (10MHz bandwidth Mode)

Channel	Frequency (MHz)	No.RB	RB START	Modulation	Max Power(RMS)	Max Power (PK)	PAR
20800	2505	1	0	QPSK	23.48	27.83	4.35
		1	25		23.36	27.63	4.27
		1	49		23.42	27.58	4.16
		50	0		22.45	27.76	5.31
		1	0	16QAM	22.21	27.26	5.05
		1	25		22.28	27.26	4.98
		1	49		22.75	27.44	4.69
		25	0		21.47	27.37	5.90
21100	2535	1	0	QPSK	23.42	27.86	4.44
		1	25		23.11	27.67	4.56
		1	49		23.27	27.87	4.60
		50	0		22.44	27.82	5.38
		1	0	16QAM	22.98	27.87	4.89
		1	25		22.91	27.83	4.92
		1	49		22.93	27.94	5.01
		25	0		21.58	27.54	5.96
21400	2565	1	0	QPSK	23.71	27.85	4.14
		1	25		23.71	27.37	3.66
		1	49		23.60	25.09	1.49
		50	0		22.59	27.90	5.31
		1	0	16QAM	22.52	27.66	5.14
		1	25		22.63	27.34	4.71
		1	49		22.96	25.26	2.30
		25	0		21.66	27.40	5.74

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Test Data (15MHz bandwidth Mode)

Channel	Frequency (MHz)	No.RB	RB START	Modulation	Max Power(RMS)	Max Power (PK)	PAR
20825	2507.5	1	0	QPSK	23.66	27.93	4.27
		1	13		23.45	27.62	4.17
		1	24		23.64	27.42	3.78
		25	0		22.50	27.93	5.43
		1	0	16QAM	22.79	27.75	4.96
		1	13		22.40	27.23	4.83
		1	24		22.92	27.52	4.60
		25	0		21.32	27.27	5.95
21100	2535	1	0	QPSK	23.46	27.67	4.21
		1	13		23.11	27.56	4.45
		1	24		23.00	27.48	4.48
		25	0		22.38	27.32	4.94
		1	0	16QAM	22.72	27.65	4.93
		1	13		22.45	27.54	5.09
		1	24		22.30	27.50	5.20
		25	0		21.60	27.28	5.68
21375	2562.5	1	0	QPSK	23.28	27.53	4.25
		1	13		23.21	27.67	4.46
		1	24		23.64	26.55	2.91
		25	0		22.47	27.33	4.86
		1	0	16QAM	22.82	27.53	4.71
		1	13		22.79	27.63	4.84
		1	24		22.86	26.72	3.86
		25	0		21.57	27.33	5.76

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Test Data (20MHz bandwidth Mode)

Channel	Frequency (MHz)	No.RB	RB START	Modulation	Max Power(RMS)	Max Power (PK)	PAR
20850	2510	1	0	QPSK	23.28	27.73	4.45
		1	13		23.54	27.60	4.06
		1	24		23.45	27.42	3.97
		25	0		22.32	27.35	5.03
		1	0	16QAM	22.85	27.89	5.04
		1	13		23.00	27.75	4.75
		1	24		23.11	27.58	4.47
		25	0		21.29	27.37	6.08
21100	2535	1	0	QPSK	23.68	27.82	4.14
		1	13		23.45	27.88	4.43
		1	24		23.48	27.91	4.43
		25	0		22.46	27.35	4.89
		1	0	16QAM	22.66	27.65	4.99
		1	13		22.35	27.70	5.35
		1	24		22.21	27.51	5.30
		25	0		21.60	27.48	5.88
21350	2560	1	0	QPSK	23.12	27.46	4.34
		1	13		23.26	27.65	4.39
		1	24		23.41	26.50	3.09
		25	0		22.46	27.25	4.79
		1	0	16QAM	22.68	27.13	4.45
		1	13		23.35	27.80	4.45
		1	24		23.20	26.82	3.62
		25	0		21.53	27.27	5.74

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5.1.7 LTE B12 Conducted RF Power Output Results

Test Data (1.4MHz bandwidth Mode)

Channel	Frequency (MHz)	No.RB	RB START	Modulation	Max Power(RMS)	Max Power (PK)	PAR
23017	699.7	1	0	QPSK	23.31	26.96	3.65
		1	2		23.40	27.00	3.60
		1	5		23.56	27.10	3.54
		6	0		22.71	27.95	5.24
		1	0	16QAM	23.28	27.68	4.40
		1	2		23.38	27.62	4.24
		1	5		23.24	27.62	4.38
		6	0		21.98	27.86	5.88
23095	707.5	1	0	QPSK	23.81	27.50	3.69
		1	2		23.85	27.50	3.65
		1	5		23.58	27.26	3.68
		6	0		22.90	28.25	5.35
		1	0	16QAM	22.59	27.14	4.55
		1	2		22.83	27.45	4.62
		1	5		22.82	27.40	4.58
		6	0		21.60	27.87	6.27
23173	715.3	1	0	QPSK	22.66	27.17	4.51
		1	2		23.84	27.29	3.45
		1	5		23.60	27.13	3.53
		6	0		22.32	27.56	5.24
		1	0	16QAM	22.69	27.12	4.43
		1	2		22.75	27.14	4.39
		1	5		22.82	27.22	4.40
		6	0		21.50	27.66	6.16

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Test Data (3MHz bandwidth Mode)

Channel	Frequency (MHz)	No.RB	RB START	Modulation	Max Power(RMS)	Max Power (PK)	PAR
23025	700.5	1	0	QPSK	23.73	27.37	3.64
		1	8		23.70	27.25	3.55
		1	15		23.83	27.43	3.60
		15	0		22.86	28.18	5.32
		1	0	16QAM	22.93	27.03	4.10
		1	8		22.90	26.92	4.02
		1	15		23.15	27.32	4.17
		15	0		21.55	28.05	6.50
23095	707.5	1	0	QPSK	23.72	27.23	3.51
		1	8		23.81	27.40	3.59
		1	15		23.76	27.61	3.85
		15	0		23.69	27.70	4.01
		1	0	16QAM	23.05	27.54	4.49
		1	8		23.10	27.50	4.40
		1	15		22.90	27.44	4.54
		15	0		21.51	27.82	6.31
23165	714.5	1	0	QPSK	23.40	27.12	3.72
		1	8		23.38	26.98	3.6
		1	15		23.26	26.98	3.72
		15	0		22.65	27.90	5.25
		1	0	16QAM	22.90	27.44	4.54
		1	8		23.10	27.50	4.40
		1	15		23.05	27.54	4.49
		15	0		21.49	27.80	6.31

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Test Data (5MHz bandwidth Mode)

Channel	Frequency (MHz)	No.RB	RB START	Modulation	Max Power(RMS)	Max Power (PK)	PAR
23035	701.5	1	0	QPSK	23.48	27.05	3.57
		1	13		23.39	26.90	3.51
		1	24		23.58	27.22	3.64
		25	0		22.68	28.33	5.65
		1	0	16QAM	23.23	27.45	4.22
		1	13		23.41	27.54	4.13
		1	24		23.38	27.86	4.48
		25	0		21.80	28.11	6.31
23095	707.5	1	0	QPSK	23.28	26.93	3.65
		1	13		23.57	27.15	3.58
		1	24		23.10	26.80	3.70
		25	0		22.69	28.25	5.56
		1	0	16QAM	22.32	26.89	4.57
		1	13		22.70	26.98	4.28
		1	24		22.54	27.0	4.46
		25	0		21.53	27.97	6.44
23155	713.5	1	0	QPSK	23.25	26.92	3.67
		1	13		23.32	26.80	3.48
		1	24		23.09	26.72	3.63
		25	0		22.24	27.61	5.37
		1	0	16QAM	22.23	26.93	4.70
		1	13		22.15	26.68	4.53
		1	24		21.90	26.52	4.62
		25	0		21.47	27.46	5.99

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Test Data (10MHz bandwidth Mode)

Channel	Frequency (MHz)	No.RB	RB START	Modulation	Max Power(RMS)	Max Power (PK)	PAR
23060	704	1	0	QPSK	23.79	27.54	3.75
		1	25		23.91	27.51	3.60
		1	49		23.68	27.58	3.90
		50	0		22.66	28.23	5.57
		1	0	16QAM	23.02	27.11	4.09
		1	25		23.29	27.37	4.08
		1	49		22.89	27.10	4.21
		25	0		21.82	27.77	5.95
23095	707.5	1	0	QPSK	23.51	27.36	3.85
		1	25		23.92	27.54	3.62
		1	49		23.26	26.86	3.60
		50	0		22.62	28.42	5.80
		1	0	16QAM	22.51	27.35	4.84
		1	25		22.62	27.24	4.62
		1	49		22.22	26.80	4.58
		25	0		21.55	27.55	6.00
23130	711	1	0	QPSK	23.44	27.32	3.88
		1	25		23.67	27.28	3.61
		1	49		23.12	26.66	3.54
		50	0		22.57	27.98	5.41
		1	0	16QAM	23.03	27.41	4.38
		1	25		22.51	26.62	4.11
		1	49		22.52	26.53	4.01
		25	0		21.62	27.76	6.14

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5.1.8 LTE B13 Conducted RF Power Output Results

Test Data (5MHz bandwidth Mode)

Channel	Frequency (MHz)	No.RB	RB START	Modulation	Max Power(RMS)	Max Power (PK)	PAR
23205	779.5	1	0	QPSK	23.76	27.06	3.30
		1	13		23.75	27.26	3.51
		1	24		23.73	27.96	4.23
		25	0		23.03	28.25	5.22
		1	0	16QAM	22.95	27.02	4.07
		1	13		23.78	27.48	3.70
		1	24		23.47	28.19	4.72
		25	0		22.05	27.98	5.93
23230	782.0	1	0	QPSK	23.58	27.26	3.68
		1	13		23.90	28.08	4.18
		1	24		23.78	28.33	4.55
		25	0		22.91	28.25	5.34
		1	0	16QAM	22.67	27.24	4.57
		1	13		22.72	27.90	5.18
		1	24		22.98	28.40	5.42
		25	0		21.92	28.90	6.98
23255	784.5	1	0	QPSK	23.66	28.06	4.40
		1	13		23.92	28.34	4.42
		1	24		24.0	27.72	3.72
		25	0		23.08	28.46	5.38
		1	0	16QAM	22.56	27.82	5.26
		1	13		23.22	28.38	5.16
		1	24		23.24	27.72	4.48
		25	0		22.03	28.27	6.24

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Test Data (10MHz bandwidth Mode)

Channel	Frequency (MHz)	No.RB	RB START	Modulation	Max Power(RMS)	Max Power (PK)	PAR
23230	782.0	1	0	QPSK	24.02	27.16	3.14
		1	25		23.85	28.08	4.23
		1	49		23.82	27.80	3.98
		50	0		22.93	28.03	5.10
		1	0	16QAM	23.27	27.02	3.75
		1	25		23.38	28.05	4.67
		1	49		23.01	27.66	4.65
		25	0		21.75	27.24	5.49

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5.1.9 LTE B25 Conducted RF Power Output Results

Test Data (1.4MHz bandwidth Mode)

Channel	Frequency (MHz)	No.RB	RB START	Modulation	Max Power(RMS)	Max Power (PK)	PAR
26047	1850.7	1	0	QPSK	23.35	27.90	4.55
		1	2		23.49	27.95	4.46
		1	5		23.27	27.90	4.63
		6	0		22.14	27.52	5.38
		1	0	16QAM	21.78	27.40	5.62
		1	2		21.78	27.33	5.55
		1	5		22.30	27.89	5.59
		6	0		21.09	27.50	6.41
26365	1882.5	1	0	QPSK	22.45	27.13	4.68
		1	2		22.58	27.07	4.49
		1	5		22.39	27.22	4.83
		6	0		21.52	26.94	5.42
		1	0	16QAM	22.00	27.54	5.54
		1	2		22.25	27.07	4.82
		1	5		21.58	26.88	5.30
		6	0		20.71	26.70	5.99
26683	1914.3	1	0	QPSK	22.26	26.99	4.73
		1	2		22.46	27.12	4.66
		1	5		22.30	27.05	4.75
		6	0		21.37	26.94	5.57
		1	0	16QAM	21.02	26.64	5.62
		1	2		21.24	26.89	5.65
		1	5		21.02	26.69	5.67
		6	0		20.13	26.59	6.46

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Test Data (3MHz bandwidth Mode)

Channel	Frequency (MHz)	No.RB	RB START	Modulation	Max Power(RMS)	Max Power (PK)	PAR
26055	1851.5	1	0	QPSK	23.16	27.16	4.00
		1	8		23.04	27.58	4.54
		1	15		23.08	27.70	4.62
		15	0		21.07	27.76	6.69
		1	0	16QAM	21.99	27.46	5.47
		1	8		22.00	27.32	5.32
		1	15		21.89	27.45	5.56
		15	0		21.15	27.24	6.09
26365	1882.5	1	0	QPSK	22.62	27.47	4.85
		1	8		22.42	27.03	4.61
		1	15		22.39	27.21	4.82
		15	0		21.48	26.90	5.42
		1	0	16QAM	21.96	27.23	5.27
		1	8		21.72	26.82	5.10
		1	15		21.70	26.89	5.19
		15	0		20.48	26.62	6.14
26675	1913.5	1	0	QPSK	22.69	27.44	4.75
		1	8		22.33	27.01	4.68
		1	15		22.06	26.96	4.90
		15	0		21.27	26.75	5.48
		1	0	16QAM	21.94	27.12	5.18
		1	8		21.81	26.92	5.11
		1	15		22.09	27.30	5.21
		15	0		20.35	27.01	6.66

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Test Data (5MHz bandwidth Mode)

Channel	Frequency (MHz)	No.RB	RB START	Modulation	Max Power(RMS)	Max Power (PK)	PAR
26065	1852.5	1	0	QPSK	22.75	27.51	4.76
		1	13		22.80	27.39	4.59
		1	24		22.80	22.47	4.67
		25	0		22.03	27.56	5.53
		1	0	16QAM	21.31	26.80	5.49
		1	13		21.41	26.83	5.42
		1	24		21.75	27.27	5.52
		25	0		21.02	26.70	5.68
26365	1882.5	1	0	QPSK	22.60	27.36	4.76
		1	13		22.34	26.95	4.61
		1	24		22.40	27.14	4.74
		25	0		21.38	27.35	5.97
		1	0	16QAM	22.31	27.73	5.42
		1	13		21.78	27.06	5.28
		1	24		22.04	27.46	5.42
		25	0		20.44	27.23	6.79
26665	1912.5	1	0	QPSK	22.55	27.24	4.69
		1	13		22.30	26.93	4.63
		1	24		22.29	27.12	4.83
		25	0		21.47	27.16	5.69
		1	0	16QAM	21.27	26.96	5.69
		1	13		21.15	27.78	6.63
		1	24		21.60	27.25	5.65
		25	0		20.32	27.05	6.73

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Test Data (10MHz bandwidth Mode)

Channel	Frequency (MHz)	No.RB	RB START	Modulation	Max Power(RMS)	Max Power (PK)	PAR
26090	1855	1	0	QPSK	23.16	27.75	4.59
		1	25		23.10	27.77	4.67
		1	49		22.71	27.52	4.81
		50	0		21.92	27.82	5.90
		1	0	16QAM	22.40	27.48	5.08
		1	25		22.44	27.62	5.18
		1	49		22.20	27.46	5.26
		25	0		21.07	27.16	6.09
26365	1882.5	1	0	QPSK	22.67	27.45	4.78
		1	25		22.69	27.18	4.49
		1	49		22.55	27.32	4.77
		50	0		21.50	26.59	5.09
		1	0	16QAM	22.08	27.31	5.23
		1	25		21.94	26.85	4.91
		1	49		22.14	27.35	5.21
		25	0		20.57	26.65	6.08
26640	1910	1	0	QPSK	22.60	27.34	4.74
		1	25		22.53	27.15	4.62
		1	49		22.49	27.22	4.73
		50	0		21.61	27.03	5.42
		1	0	16QAM	21.47	27.12	5.65
		1	25		21.98	27.39	5.41
		1	49		21.62	27.24	5.62
		25	0		20.58	26.76	6.18

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Test Data (15MHz bandwidth Mode)

Channel	Frequency (MHz)	No.RB	RB START	Modulation	Max Power(RMS)	Max Power (PK)	PAR
26115	1857.5	1	0	QPSK	23.01	27.61	4.60
		1	38		22.82	27.62	4.80
		1	74		22.81	27.61	4.80
		75	0		22.00	27.14	5.14
		1	0	16QAM	22.39	27.46	5.07
		1	38		22.28	27.41	5.13
		1	74		22.33	27.59	5.26
		25	0		20.85	26.89	6.04
26365	1882.5	1	0	QPSK	22.41	27.21	4.80
		1	38		22.36	27.01	4.65
		1	74		22.77	27.53	4.76
		75	0		21.59	26.74	5.15
		1	0	16QAM	22.28	27.51	5.23
		1	38		22.11	27.00	4.89
		1	74		22.05	27.29	5.24
		25	0		20.70	26.80	6.10
26615	1907.5	1	0	QPSK	22.83	27.45	4.62
		1	38		22.44	26.91	4.47
		1	74		21.16	26.81	5.65
		75	0		21.60	27.25	5.65
		1	0	16QAM	21.78	27.12	5.34
		1	38		21.61	26.76	5.15
		1	74		20.44	25.87	5.43
		25	0		20.71	26.95	6.24

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Test Data (20MHz bandwidth Mode)

Channel	Frequency (MHz)	No.RB	RB START	Modulation	Max Power(RMS)	Max Power (PK)	PAR
26140	1860	1	0	QPSK	23.04	27.65	4.61
		1	50		22.82	27.52	4.70
		1	99		22.57	27.32	4.75
		100	0		22.12	27.31	5.19
		1	0	16QAM	22.60	27.96	5.36
		1	50		22.76	28.06	5.30
		1	99		22.71	27.92	5.21
		25	0		21.21	27.35	6.14
26365	1882.5	1	0	QPSK	21.62	27.39	5.77
		1	50		21.57	26.68	5.11
		1	99		21.73	27.27	5.54
		100	0		22.79	27.58	4.79
		1	0	16QAM	21.81	27.38	5.57
		1	50		21.57	26.68	5.11
		1	99		21.27	26.79	5.52
		25	0		20.62	26.72	6.10
26590	1905	1	0	QPSK	22.47	27.38	4.91
		1	50		22.80	27.54	4.74
		1	99		22.33	27.13	4.80
		100	0		21.58	27.66	6.08
		1	0	16QAM	22.50	27.79	5.29
		1	50		22.73	27.78	5.05
		1	99		22.22	27.42	5.20
		25	0		20.48	26.69	6.21

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5.1.10 LTE B26 Conducted RF Power Output Results

Test Data (1.4MHz bandwidth Mode)

Channel	Frequency (MHz)	No.RB	RB START	Modulation	Max Power(RMS)	Max Power (PK)	PAR
26697	824.7	1	0	QPSK	23.10	26.78	3.68
		1	2		23.35	28.86	5.51
		1	5		23.34	26.92	3.58
		6	0		21.97	26.95	4.98
		1	0	16QAM	21.53	26.14	4.61
		1	2		22.00	26.48	4.48
		1	5		22.00	26.52	4.52
		6	0		20.88	26.72	5.84
26865	836.5	1	0	QPSK	23.57	27.28	3.71
		1	2		23.62	27.26	3.64
		1	5		23.66	27.33	3.67
		6	0		22.36	27.58	5.22
		1	0	16QAM	22.70	27.33	4.63
		1	2		22.58	27.13	4.55
		1	5		22.46	27.07	4.61
		6	0		21.29	27.41	6.12
27033	848.3	1	0	QPSK	23.66	27.14	3.48
		1	2		23.64	27.00	3.36
		1	5		23.65	26.99	3.34
		6	0		22.66	27.43	4.77
		1	0	16QAM	23.22	27.46	4.24
		1	2		23.55	27.50	3.95
		1	5		23.25	27.27	4.02
		6	0		21.82	27.41	5.59

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Test Data (3MHz bandwidth Mode)

Channel	Frequency (MHz)	No.RB	RB START	Modulation	Max Power(RMS)	Max Power (PK)	PAR
26705	825.5	1	0	QPSK	23.19	26.87	3.68
		1	8		23.17	26.66	3.49
		1	15		23.07	26.74	3.67
		15	0		22.11	27.16	5.05
		1	0	16QAM	21.87	26.07	4.20
		1	8		21.97	25.95	3.98
		1	15		21.96	26.16	4.20
		15	0		21.06	26.98	5.92
26865	836.5	1	0	QPSK	23.22	26.97	3.75
		1	8		23.17	26.75	3.58
		1	15		23.13	26.84	3.71
		15	0		22.29	27.38	5.09
		1	0	16QAM	22.96	27.50	4.54
		1	8		22.91	27.29	4.38
		1	15		22.72	27.24	4.52
		15	0		21.24	27.40	6.16
27025	847.5	1	0	QPSK	23.71	27.24	3.53
		1	8		23.62	27.01	3.39
		1	15		23.78	27.11	3.33
		15	0		22.66	27.84	5.18
		1	0	16QAM	22.41	26.90	4.49
		1	8		22.42	26.82	4.4
		1	15		22.17	26.62	4.45
		15	0		21.48	27.50	6.02

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Test Data (5MHz bandwidth Mode)

Channel	Frequency (MHz)	No.RB	RB START	Modulation	Max Power(RMS)	Max Power (PK)	PAR
26715	826.5	1	0	QPSK	22.83	26.52	3.69
		1	13		22.98	26.49	3.51
		1	24		23.16	26.84	3.68
		25	0		22.01	27.27	5.26
		1	0	16QAM	21.36	26.09	4.73
		1	13		21.31	25.90	4.59
		1	24		21.39	26.10	4.71
		25	0		21.26	27.37	6.11
26865	836.5	1	0	QPSK	23.13	26.75	3.62
		1	13		23.08	26.65	3.57
		1	24		23.00	26.67	3.67
		25	0		22.32	27.75	5.43
		1	0	16QAM	22.35	26.73	4.38
		1	13		22.62	26.86	4.24
		1	24		22.85	27.15	4.30
		25	0		21.38	27.58	6.20
27015	846.5	1	0	QPSK	23.40	26.95	3.55
		1	13		23.42	26.90	3.48
		1	24		23.39	26.85	3.46
		25	0		22.61	27.75	5.14
		1	0	16QAM	22.32	26.73	4.41
		1	13		22.33	26.71	4.38
		1	24		22.49	26.86	4.37
		25	0		21.73	27.73	6.00

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Test Data (10MHz bandwidth Mode)

Channel	Frequency (MHz)	No.RB	RB START	Modulation	Max Power(RMS)	Max Power (PK)	PAR
26740	829	1	0	QPSK	23.27	26.92	3.65
		1	25		23.39	26.94	3.55
		1	49		23.27	27.00	3.73
		50	0		22.10	27.49	5.39
		1	0	16QAM	22.43	26.56	4.13
		1	25		22.52	26.57	4.05
		1	49		22.37	26.58	4.21
		25	0		21.15	26.74	5.59
26865	836.5	1	0	QPSK	23.13	26.78	3.65
		1	25		23.30	26.95	3.65
		1	49		23.20	26.74	3.54
		50	0		22.33	27.50	5.17
		1	0	16QAM	22.75	27.21	4.46
		1	25		22.75	27.19	4.44
		1	49		23.07	27.30	4.23
		25	0		21.38	27.06	5.68
26990	844	1	0	QPSK	23.90	27.39	3.49
		1	25		23.82	27.17	3.35
		1	49		23.80	27.20	3.40
		50	0		22.56	28.03	5.47
		1	0	16QAM	22.09	26.63	4.54
		1	25		22.42	26.79	4.37
		1	49		22.37	26.86	4.49
		25	0		21.32	26.85	5.53

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5.1.11 LTE B41 Conducted RF Power Output Results

Test Data (5MHz bandwidth Mode)

Channel	Frequency (MHz)	No.RB	RB START	Modulation	Max Power(RMS)	Max Power (PK)	PAR
39675	2498.5	1	0	QPSK	23.15	27.91	4.76
		1	13		23.34	27.51	4.17
		1	24		23.23	27.34	4.11
		25	0		22.34	27.66	5.32
		1	0	16QAM	23.04	27.74	4.70
		1	13		23.01	27.96	4.95
		1	24		22.71	27.15	4.44
		25	0		21.29	27.14	5.85
40620	2593	1	0	QPSK	23.34	27.36	4.02
		1	13		23.69	27.88	4.19
		1	24		23.76	27.66	3.90
		25	0		23.24	27.41	4.17
		1	0	16QAM	22.61	27.92	5.31
		1	13		22.30	27.73	5.43
		1	24		22.71	27.54	4.83
		25	0		21.62	27.36	5.74
41565	2687.5	1	0	QPSK	23.75	27.15	3.40
		1	13		23.93	27.64	3.71
		1	24		23.63	27.68	4.05
		25	0		22.47	27.17	4.70
		1	0	16QAM	22.26	27.52	5.26
		1	13		22.41	27.84	5.43
		1	24		22.39	27.59	5.2
		25	0		21.16	27.16	6.00

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Test Data (10MHz bandwidth Mode)

Channel	Frequency (MHz)	No.RB	RB START	Modulation	Max Power(RMS)	Max Power (PK)	PAR
39700	2501	1	0	QPSK	23.51	27.46	3.95
		1	25		23.63	27.74	4.11
		1	49		22.87	27.64	4.77
		50	0		22.02	27.89	5.87
		1	0	16QAM	22.63	27.45	4.82
		1	25		22.55	27.12	4.57
		1	49		22.56	27.94	5.38
		25	0		21.14	27.16	6.02
40620	2593	1	0	QPSK	23.63	28.02	4.39
		1	25		23.74	27.52	3.78
		1	49		23.61	27.46	3.85
		50	0		22.25	27.84	5.59
		1	0	16QAM	22.65	27.45	4.80
		1	25		22.64	27.94	5.30
		1	49		22.39	27.19	4.80
		25	0		21.92	27.79	5.87
41540	2685	1	0	QPSK	23.64	27.67	4.03
		1	25		23.67	27.65	3.98
		1	49		23.96	27.53	3.57
		50	0		22.71	27.73	5.02
		1	0	16QAM	22.94	27.90	4.96
		1	25		22.41	27.17	4.76
		1	49		22.63	27.20	4.57
		25	0		21.74	27.46	5.72

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Test Data (15MHz bandwidth Mode)

Channel	Frequency (MHz)	No.RB	RB START	Modulation	Max Power(RMS)	Max Power (PK)	PAR
39725	2503.5	1	0	QPSK	23.43	27.53	4.10
		1	38		23.18	27.74	4.56
		1	74		23.12	27.73	4.61
		75	0		22.27	27.64	5.37
		1	0	16QAM	23.03	28.28	5.25
		1	38		22.61	27.74	5.13
		1	74		22.27	27.64	5.37
		25	0		21.14	27.89	6.75
40620	2593	1	0	QPSK	22.72	27.47	4.75
		1	38		23.65	27.44	3.79
		1	74		23.11	27.68	4.57
		75	0		22.43	27.58	5.15
		1	0	16QAM	21.15	27.26	6.11
		1	38		22.65	27.76	5.11
		1	74		22.73	27.55	4.82
		25	0		22.13	27.89	5.76
41515	2682.5	1	0	QPSK	23.75	27.68	3.93
		1	38		23.47	27.78	4.31
		1	74		23.62	27.46	3.84
		75	0		22.63	27.91	5.28
		1	0	16QAM	22.41	27.76	5.35
		1	38		22.76	27.41	4.65
		1	74		22.15	27.62	5.47
		25	0		21.91	27.63	5.72

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Test Data (20MHz bandwidth Mode)

Channel	Frequency (MHz)	No.RB	RB START	Modulation	Max Power(RMS)	Max Power (PK)	PAR
39750	2506	1	0	QPSK	23.32	27.89	4.57
		1	50		23.63	27.59	3.96
		1	99		23.76	27.75	3.99
		100	0		22.74	27.84	5.10
		1	0	16QAM	22.35	27.96	5.61
		1	50		22.61	27.84	5.23
		1	99		22.85	27.93	5.08
		25	0		21.22	27.79	6.57
40620	2593	1	0	QPSK	23.62	28.01	4.39
		1	50		23.54	27.65	4.11
		1	99		23.86	27.74	3.88
		100	0		22.56	28.03	5.47
		1	0	16QAM	22.79	27.87	5.08
		1	50		23.11	28.45	5.34
		1	99		22.16	27.59	5.43
		25	0		21.52	28.07	6.55
41490	2680	1	0	QPSK	23.34	27.88	4.54
		1	50		23.56	27.85	4.29
		1	99		23.78	27.59	3.81
		100	0		22.95	27.65	4.70
		1	0	16QAM	22.24	27.78	5.54
		1	50		22.57	27.69	5.12
		1	99		23.02	27.34	4.32
		25	0		21.90	27.62	5.72

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5.1.12 LTE B66 Conducted RF Power Output Results

Test Data (1.4MHz bandwidth Mode)

Channel	Frequency (MHz)	No.RB	RB START	Modulation	Max Power(RMS)	Max Power (PK)	PAR
131979	1710.7	1	0	QPSK	23.10	27.79	4.69
		1	13		22.82	27.51	4.69
		1	24		22.78	27.59	4.81
		25	0		21.97	27.31	5.34
		1	0	16QAM	22.63	27.79	5.16
		1	13		22.44	27.61	5.17
		1	24		22.36	27.58	5.22
		25	0		21.00	27.26	6.26
132322	1745	1	0	QPSK	22.90	27.41	4.51
		1	13		22.87	27.32	4.45
		1	24		22.89	27.38	4.49
		25	0		22.06	27.39	5.33
		1	0	16QAM	21.62	27.15	5.53
		1	13		22.01	27.37	5.36
		1	24		21.91	27.31	5.40
		25	0		21.12	27.57	6.45
132665	1779.3	1	0	QPSK	23.06	27.38	4.32
		1	13		22.99	28.01	5.02
		1	24		22.75	27.86	5.11
		25	0		21.10	27.39	6.29
		1	0	16QAM	22.13	27.21	5.08
		1	13		22.09	27.33	5.24
		1	24		21.98	27.07	5.09
		25	0		20.85	27.61	6.76

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Test Data (3MHz bandwidth Mode)

Channel	Frequency (MHz)	No.RB	RB START	Modulation	Max Power(RMS)	Max Power (PK)	PAR
131987	1711.5	1	0	QPSK	22.92	27.65	4.73
		1	13		22.82	27.48	4.66
		1	24		22.50	27.40	4.90
		25	0		21.82	27.43	5.61
		1	0	16QAM	21.98	27.37	5.39
		1	13		22.28	27.42	5.14
		1	24		22.09	27.46	5.37
		25	0		20.91	27.54	6.63
132322	1745	1	0	QPSK	22.74	27.39	4.65
		1	13		22.80	27.24	4.44
		1	24		23.06	27.47	4.41
		25	0		22.07	27.41	5.34
		1	0	16QAM	22.28	27.36	5.08
		1	13		22.39	27.28	4.89
		1	24		22.43	27.38	4.95
		25	0		21.33	27.51	6.18
132657	1778.5	1	0	QPSK	22.82	27.20	4.38
		1	13		22.79	27.11	4.32
		1	24		22.71	27.36	4.65
		25	0		21.21	27.42	6.21
		1	0	16QAM	21.87	27.51	5.64
		1	13		22.02	27.02	5.00
		1	24		21.65	27.31	5.66
		25	0		20.55	27.46	6.91

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Test Data (5MHz bandwidth Mode)

Channel	Frequency (MHz)	No.RB	RB START	Modulation	Max Power(RMS)	Max Power (PK)	PAR
131997	1712.5	1	0	QPSK	22.76	27.49	4.73
		1	13		22.51	27.21	4.70
		1	24		22.57	27.46	4.89
		25	0		21.66	27.41	5.75
		1	0	16QAM	21.55	27.15	5.60
		1	13		21.70	27.23	5.53
		1	24		21.36	27.03	5.67
		25	0		20.65	27.29	6.64
132322	1745	1	0	QPSK	22.69	27.35	4.66
		1	13		22.78	27.22	4.44
		1	24		23.01	27.40	4.39
		25	0		21.99	27.77	5.78
		1	0	16QAM	22.10	27.49	5.39
		1	13		22.48	27.50	5.02
		1	24		22.65	27.62	4.97
		25	0		20.83	27.66	6.83
132647	1777.5	1	0	QPSK	22.57	27.10	4.53
		1	13		22.64	27.46	4.82
		1	24		22.77	27.55	4.78
		25	0		21.03	27.37	6.34
		1	0	16QAM	22.01	27.03	5.02
		1	13		21.84	27.44	5.60
		1	24		21.65	27.65	6.00
		25	0		20.67	27.49	6.82

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Test Data (10MHz bandwidth Mode)

Channel	Frequency (MHz)	No.RB	RB START	Modulation	Max Power(RMS)	Max Power (PK)	PAR
132022	1715	1	0	QPSK	23.02	27.74	4.72
		1	13		23.06	27.80	4.74
		1	24		22.33	27.37	5.04
		25	0		21.63	27.81	6.18
		1	0	16QAM	22.31	27.52	5.21
		1	13		22.23	27.49	5.26
		1	24		22.03	27.50	5.47
		25	0		20.82	27.05	6.23
132322	1745	1	0	QPSK	22.75	27.50	4.75
		1	13		23.15	27.52	4.37
		1	24		23.23	27.44	4.21
		25	0		22.00	27.19	5.19
		1	0	16QAM	22.21	27.45	5.24
		1	13		23.17	27.72	4.55
		1	24		22.16	27.42	5.26
		25	0		20.81	27.02	6.21
132622	1775	1	0	QPSK	22.82	27.13	4.31
		1	13		22.75	27.45	4.70
		1	24		23.02	27.60	4.58
		25	0		21.87	27.39	5.52
		1	0	16QAM	22.43	27.63	5.20
		1	13		22.59	27.41	4.82
		1	24		22.27	27.37	5.10
		25	0		20.62	27.09	6.47

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Test Data (15MHz bandwidth Mode)

Channel	Frequency (MHz)	No.RB	RB START	Modulation	Max Power(RMS)	Max Power (PK)	PAR
132047	1717.5	1	0	QPSK	22.81	27.58	4.77
		1	13		22.33	27.28	4.95
		1	24		21.99	27.07	5.08
		25	0		21.40	27.35	5.95
		1	0	16QAM	22.30	27.52	5.22
		1	13		22.00	27.37	5.37
		1	24		21.56	27.07	5.51
		25	0		20.78	26.99	6.21
132322	1745	1	0	QPSK	22.55	27.43	4.88
		1	13		22.96	27.37	4.41
		1	24		23.72	27.58	3.86
		25	0		22.01	27.69	5.68
		1	0	16QAM	22.33	27.62	5.29
		1	13		23.23	27.71	4.48
		1	24		23.07	27.05	3.98
		25	0		20.48	26.72	6.24
132597	1772.5	1	0	QPSK	23.29	27.48	4.19
		1	13		23.10	27.62	4.52
		1	24		23.14	27.73	4.59
		25	0		22.13	27.77	5.64
		1	0	16QAM	22.89	27.26	4.37
		1	13		23.05	27.35	4.30
		1	24		22.83	27.77	4.94
		25	0		21.82	27.20	5.38

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Test Data (20MHz bandwidth Mode)

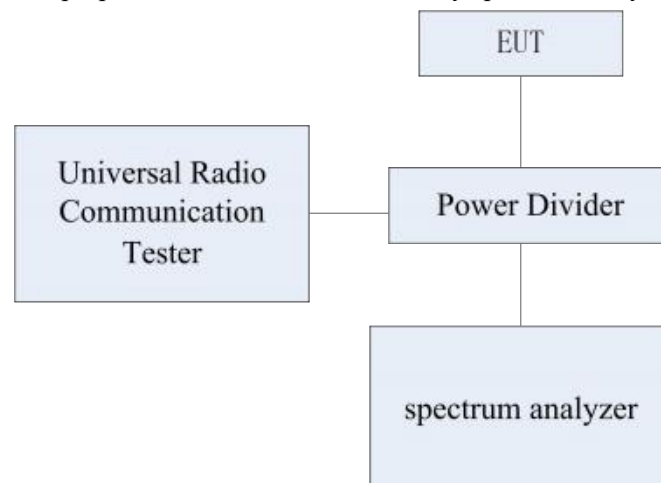
Channel	Frequency (MHz)	No.RB	RB START	Modulation	Max Power(RMS)	Max Power (PK)	PAR
132072	1720	1	0	QPSK	22.87	27.59	4.72
		1	13		22.46	27.45	4.99
		1	24		21.94	26.98	5.04
		25	0		21.20	27.18	5.98
		1	0	16QAM	21.96	27.42	5.46
		1	13		21.73	27.41	5.68
		1	24		21.30	27.06	5.76
		25	0		20.10	26.64	6.54
132322	1745	1	0	QPSK	22.63	27.52	4.89
		1	13		23.37	27.56	4.19
		1	24		23.94	27.67	3.73
		25	0		22.07	27.92	5.85
		1	0	16QAM	21.21	26.99	5.78
		1	13		22.14	27.36	5.22
		1	24		22.90	27.59	4.69
		25	0		21.31	27.10	5.79
132572	1770	1	0	QPSK	22.76	27.10	4.34
		1	13		23.19	27.41	4.22
		1	24		23.06	27.32	4.26
		25	0		21.82	27.56	5.74
		1	0	16QAM	22.53	27.06	4.53
		1	13		22.79	27.11	4.32
		1	24		22.66	27.42	4.76
		25	0		21.17	27.31	6.14

5.2 Occupied Bandwidth

Specifications:	2.1049,22.917(b),24.238(b), RSS-Gen 6.6
DUT Serial Number:	868822040009761
Test conditions:	Ambient Temperature:15℃-35℃ Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	--

Test Setup

During the test, the EUT was controlled via the Wireless Communications Test Set to ensure max power transmission and proper modulation and measured by spectrum analyzer.



Test Method

The 99% occupied Bandwidth was calculated from the spectrum analyzer. Markers in the spectrum analyzer were then placed between the calculated frequencies to show the calculated 99% power Band. The 26dB Bandwidth was also measured and recorded.

Note: --

5.2.1 GSM Mode Occupied Bandwidth Results

Band	EUT channel No.	Mode	99% OBW (kHz)	-26dBc OBW (kHz)
GSM850	128	GMSK	243.589	314.103
		8PSK	240.385	302.884
	190	GMSK	248.397	314.102
		8PSK	241.987	291.667
	251	GMSK	246.795	309.295
		8PSK	241.987	291.667
PCS1900	512	GMSK	246.795	314.103
		8PSK	251.602	306.089
	661	GMSK	243.589	314.103
		8PSK	246.794	307.692
	810	GMSK	245.192	306.089
		8PSK	246.794	306.089

5.2.2 WCDMA Band mode occupied bandwidth Results

Band	EUT channel No.	Mode	99% OBW (MHz)	-26dBc OBW (MHz)
B2	9400 (1880.0 MHz)	QPSK	4.134	4.712
		16QAM	4.135	4.696
B4	1412 (1732.4 MHz)	QPSK	4.295	5.577
		16QAM	4.295	5.625
B5	4182 (836.4MHz)	QPSK	4.391	4.919
		16QAM	4.295	5.705

5.2.3 LTE B7 occupied bandwidth Results

Mode	EUT channel No.	bandwidth	No. RB	RB offset	99% occupied bandwidth [MHz]	-26dBc occupied bandwidth [MHz]
QPSK	21100 (2535MHz)	5MHz	25	0	4.503	4.935
		10MHz	50		8.974	9.775
		15MHz	75		13.509	14.663
		20MHz	100		17.884	19.231
16QAM		5MHz	25		4.470	4.695
		10MHz	25		4.487	4.807
		15MHz	25		4.519	4.775
		20MHz	25		4.615	5.240

5.2.4 LTE B12 occupied bandwidth Results

Mode	EUT channel No.	bandwidth	No. RB	RB offset	99% occupied bandwidth [MHz]	-26dBc occupied bandwidth [MHz]
QPSK	23095 (707.5MHz)	1.4MHz	6	0	1.096	1.264
		3MHz	15		2.700	2.941
		5MHz	25		4.503	4.951
		10MHz	50		8.942	9.775
16QAM		1.4MHz	6		1.082	1.218
		3MHz	15		2.680	2.864
		5MHz	25		4.470	4.756
		10MHz	25		4.487	4.807

5.2.5 LTE B13 occupied bandwidth Results

Mode	EUT channel No.	bandwidth	No. RB	RB offset	99% occupied bandwidth [MHz]	-26dBc occupied bandwidth [MHz]
QPSK	23230 (782MHz)	5MHz	25	0	4.503	4.967
		10MHz	50		8.974	9.775
16QAM		5MHz	25		4.475	4.813
		10MHz	25		4.519	4.807

5.2.6 LTE B25 occupied bandwidth Results

Mode	EUT channel No.	bandwidth	No. RB	RB offset	99% occupied bandwidth [MHz]	-26dBc occupied bandwidth [MHz]
QPSK	26365 (1882.5MHz)	1.4MHz	6	0	1.091	1.283
		3MHz	15		2.700	2.948
		5MHz	25		4.487	4.935
		10MHz	50		8.974	9.839
		15MHz	75		13.429	14.583
		20MHz	100		17.836	19.038
16QAM		1.4MHz	6		1.087	1.249
		3MHz	15		2.682	2.868
		5MHz	25		4.463	4.791
		10MHz	25		4.551	5.192
		15MHz	25		4.743	5.448
		20MHz	25		4.663	5.576

5.2.7 LTE B26 occupied bandwidth Results

Test Data (Part22:824 MHz ~849MHz)

Mode	EUT channel No.	bandwidth	No. RB	RB offset	99% occupied bandwidth [MHz]	-26dBc occupied bandwidth [MHz]
QPSK	26915 (836.5MHz)	1.4MHz	6	0	1.092	1.283
		3MHz	15		2.679	2.923
		5MHz	25		4.476	4.917
		10MHz	50		8.939	9.761
16QAM		1.4MHz	6		1.087	1.286
		3MHz	15		2.680	2.928
		5MHz	25		4.466	4.858
		10MHz	25		4.531	5.303

5.2.8 LTE B41 occupied bandwidth Results

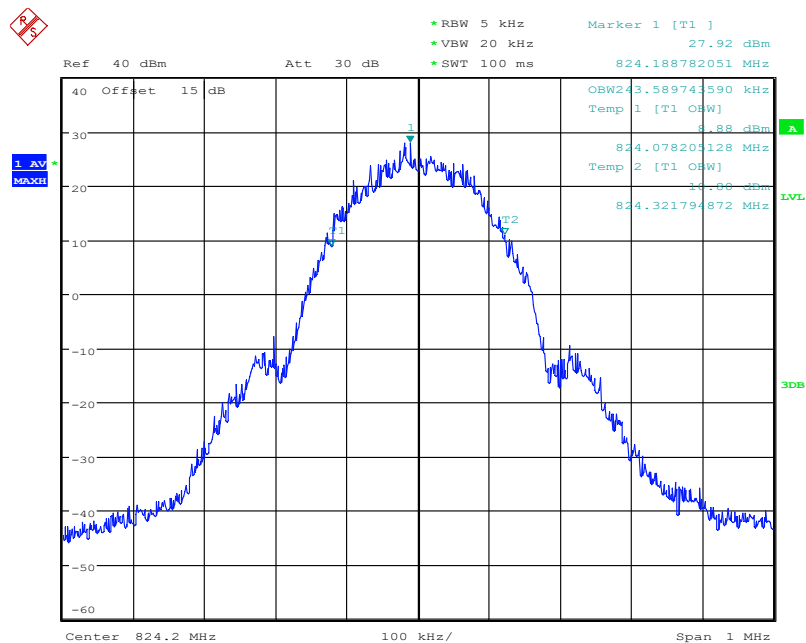
Mode	EUT channel No.	bandwidth	No. RB	RB offset	99% occupied bandwidth [MHz]	-26dBc occupied bandwidth [MHz]
QPSK	40620 (2593MHz)	5MHz	25	0	4.487	4.935
		10MHz	50		8.942	9.903
		15MHz	75		13.429	14.551
		20MHz	100		17.884	18.990
16QAM		5MHz	25		4.465	4.718
		10MHz	25		4.519	4.903
		15MHz	25		4.647	5.288
		20MHz	25		4.663	5.384

5.2.9 LTE B66 occupied bandwidth Results

Mode	EUT channel No.	bandwidth	No. RB	RB offset	99% occupied	-26dBc occupied
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					bandwidth [MHz]	bandwidth [MHz]
QPSK	132322 (1745MHz)	1.4MHz	6	0	1.086	1.278
		3MHz	15		2.692	2.948
		5MHz	25		4.487	4.935
		10MHz	50		8.942	9.839
		15MHz	75		13.461	14.551
		20MHz	100		17.836	19.134
16QAM		1.4MHz	6		1.081	1.251
		3MHz	15		2.680	2.852
		5MHz	25		4.470	4.713
		10MHz	25		4.519	4.967
		15MHz	25		4.679	5.481
		20MHz	25		4.711	5.576

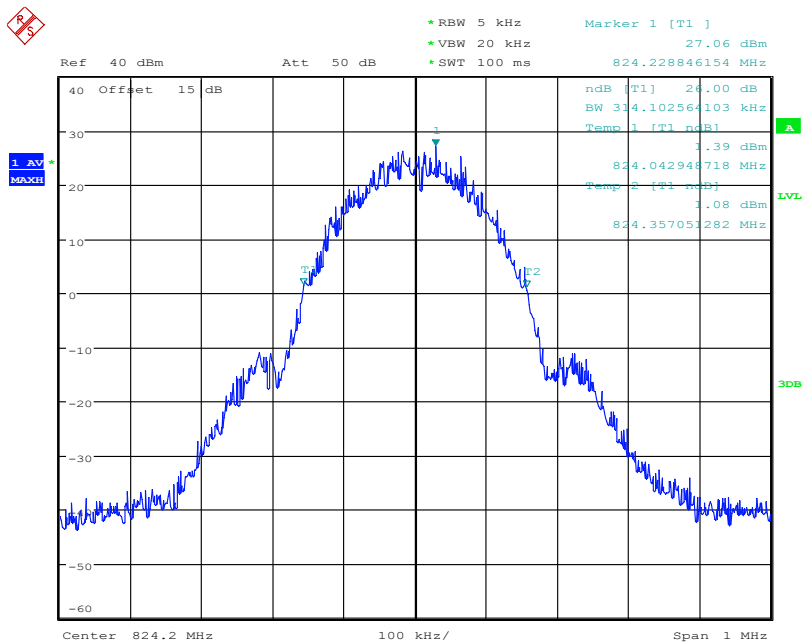
Graphical results for GSM850:



Date: 22.FEB.2020 05:44:29

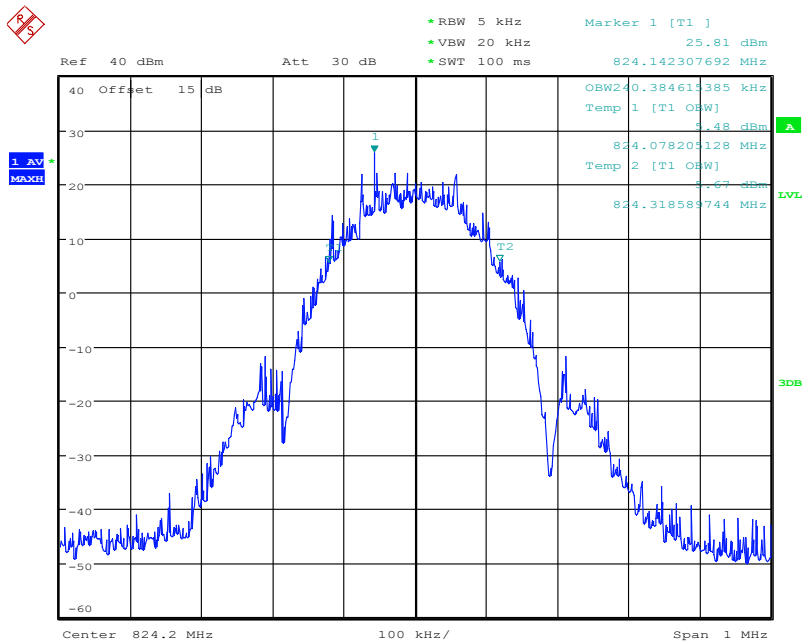
GMSK 99% Channel 128

Report No.:B19W50598-WWAN_Rev1



Date: 22.FEB.2020 05:44:49

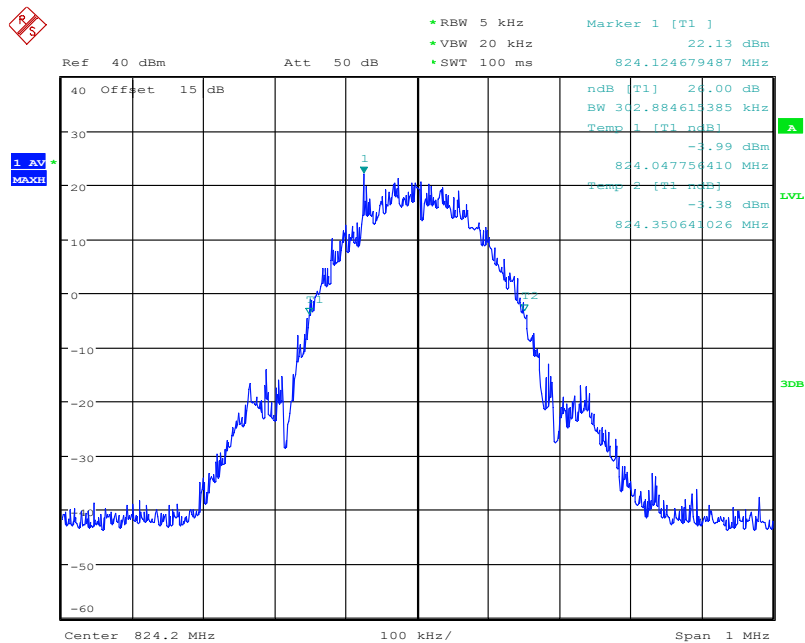
GMSK -26dBc Channel 128



Date: 22.FEB.2020 06:03:34

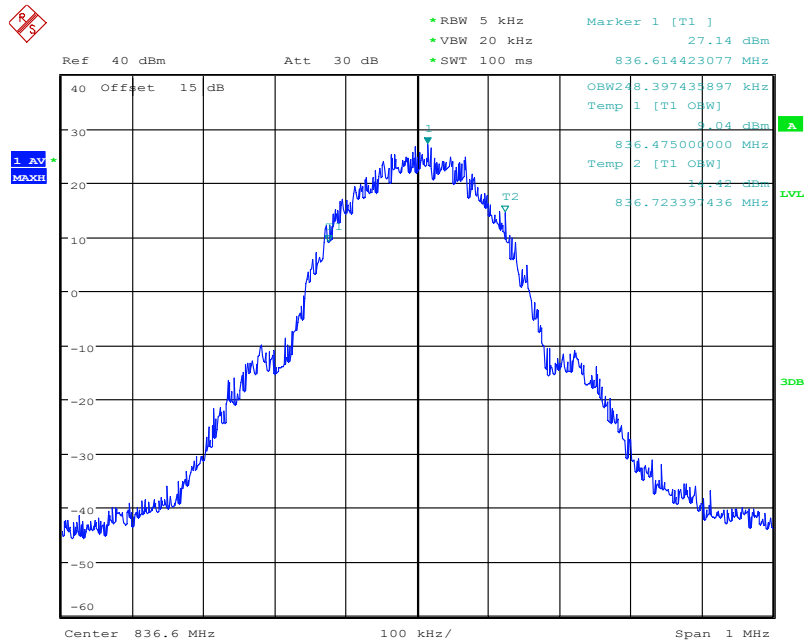
8PSK 99% Channel 128

Report No.:B19W50598-WWAN_Rev1



Date: 22.FEB.2020 06:04:05

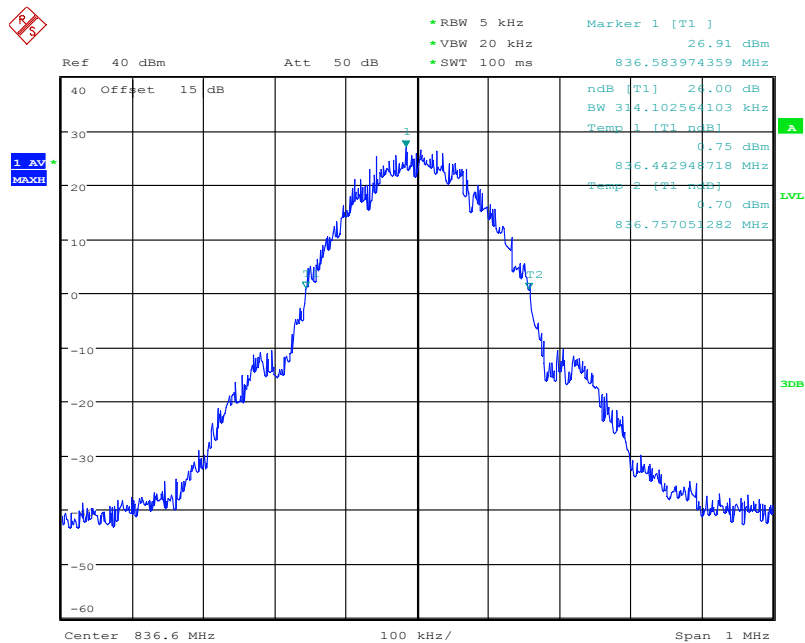
8PSK -26dBc Channel 128



Date: 22.FEB.2020 05:45:59

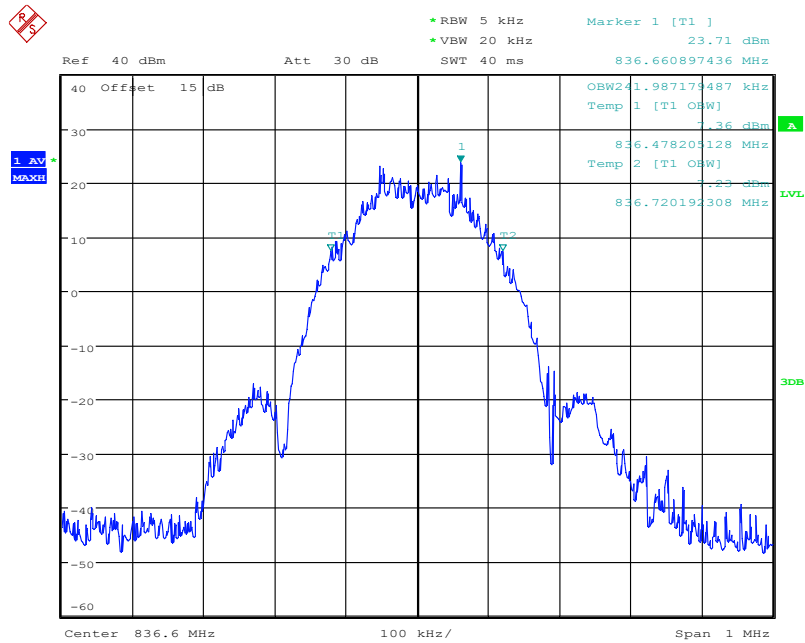
GMSK 99% Channel 190

Report No.:B19W50598-WWAN_Rev1



Date: 22.FEB.2020 05:45:31

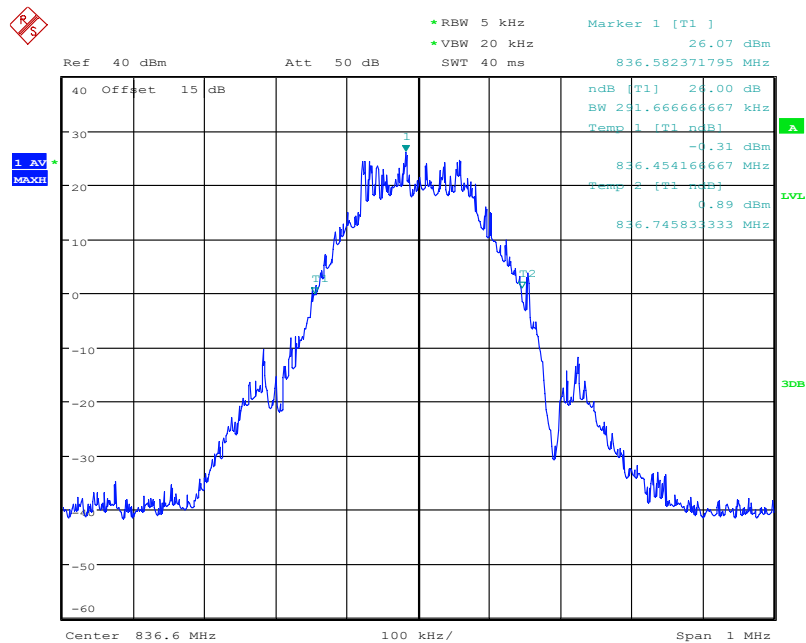
GMSK -26dBc Channel 190



Date: 22.FEB.2020 06:06:14

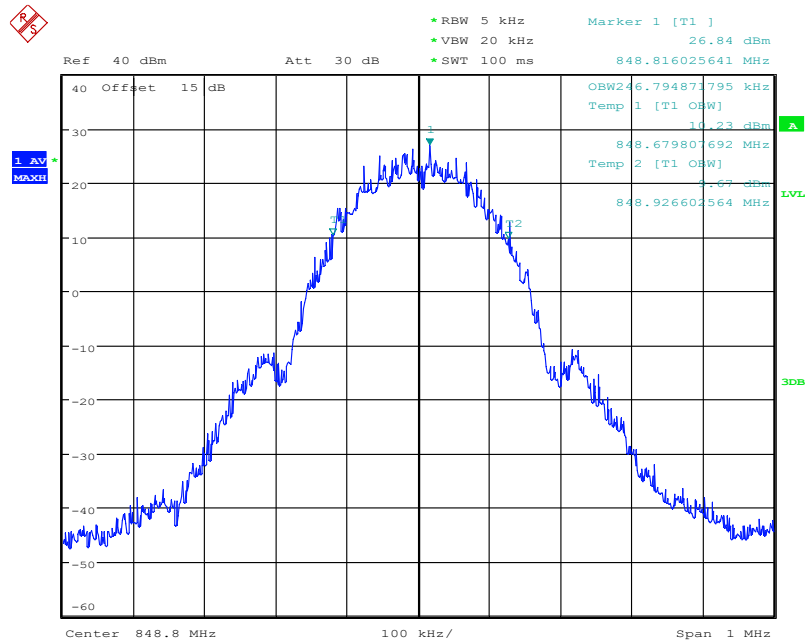
8PSK 99% Channel 190

Report No.:B19W50598-WWAN_Rev1



Date: 22.FEB.2020 06:05:55

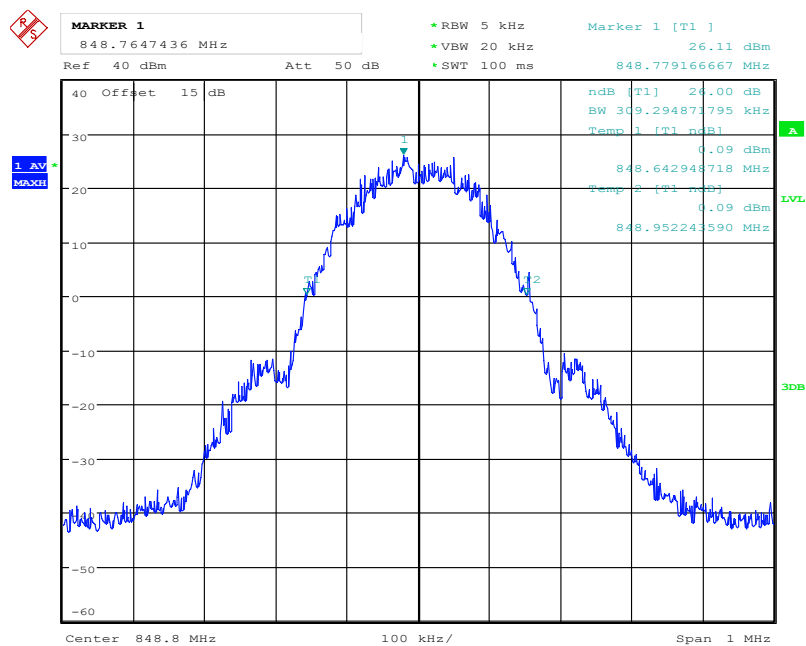
8PSK -26dBc Channel 190



Date: 22.FEB.2020 05:49:09

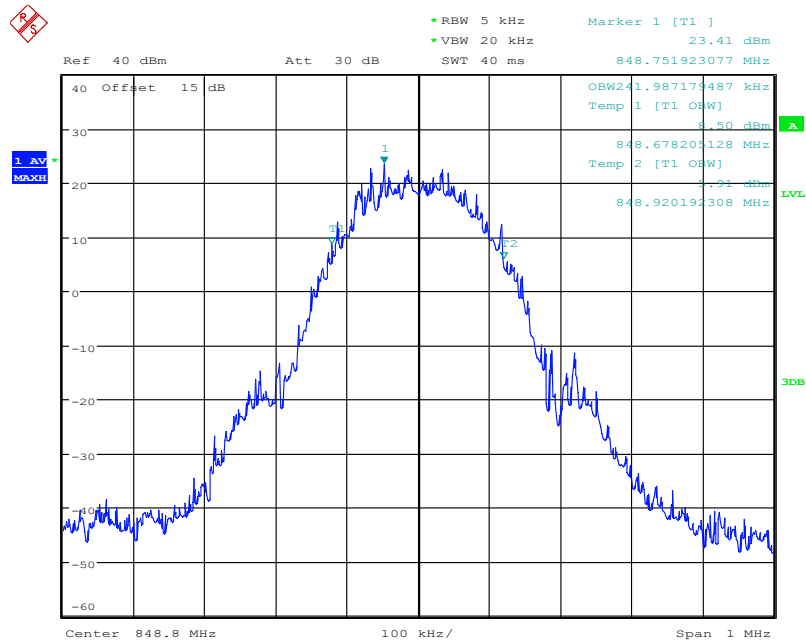
GMSK 99% Channel 251

Report No.:B19W50598-WWAN_Rev1



Date: 22.FEB.2020 05:49:32

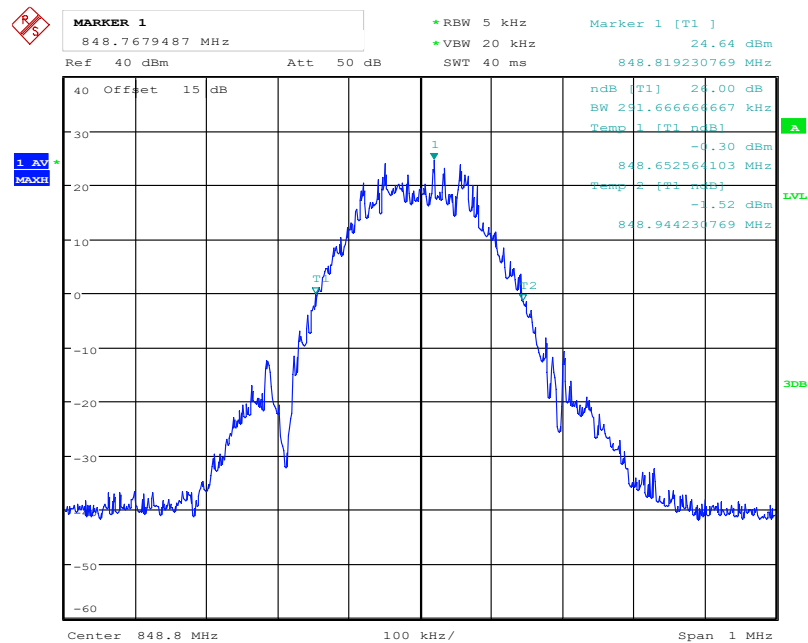
GMSK -26dBc Channel 251



Date: 22.FEB.2020 06:07:00

8PSK 99% Channel 251

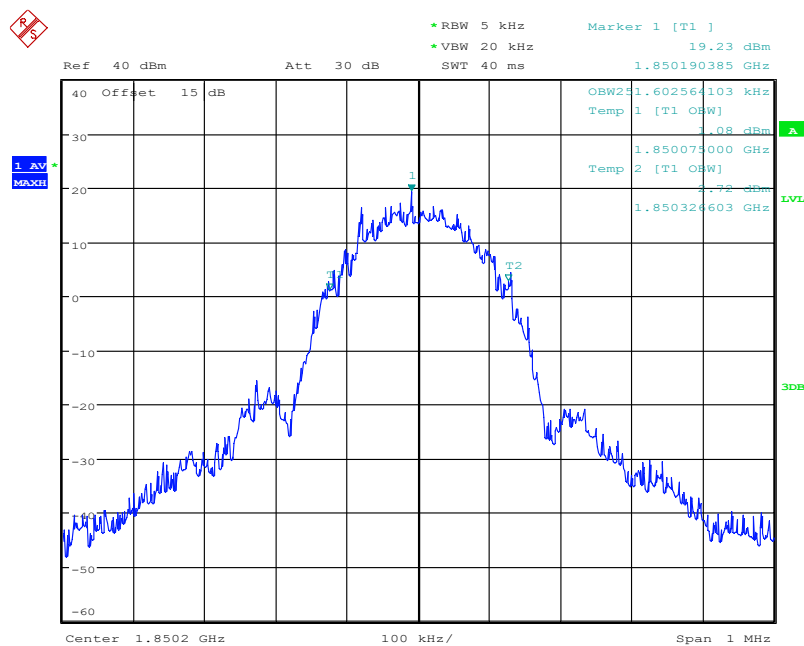
Report No.:B19W50598-WWAN_Rev1



Date: 22.FEB.2020 06:07:27

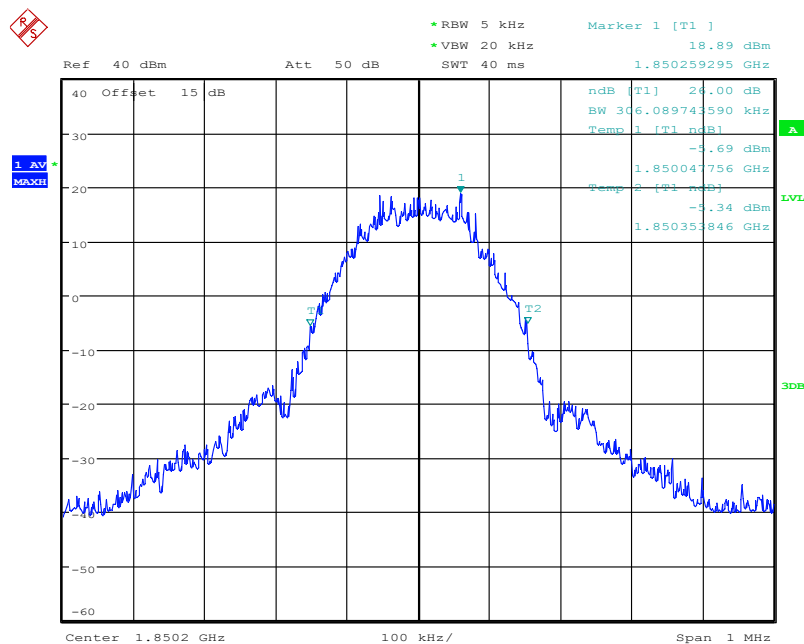
8PSK -26dBc Channel 251

Report No.:B19W50598-WWAN_Rev1



Date: 22.FEB.2020 06:11:43

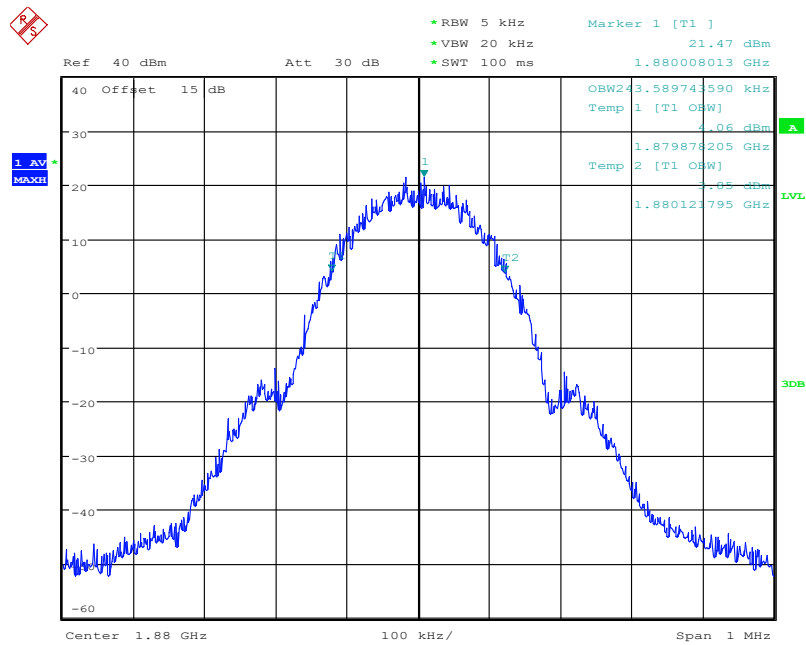
8PSK 99% Channel 512



Date: 22.FEB.2020 06:11:26

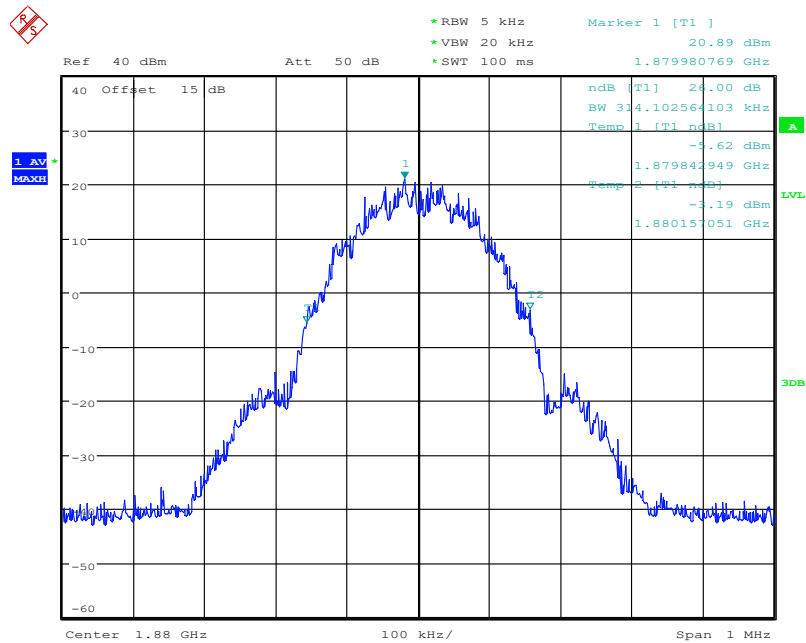
8PSK -26dBc Channel 512

Report No.:B19W50598-WWAN_Rev1



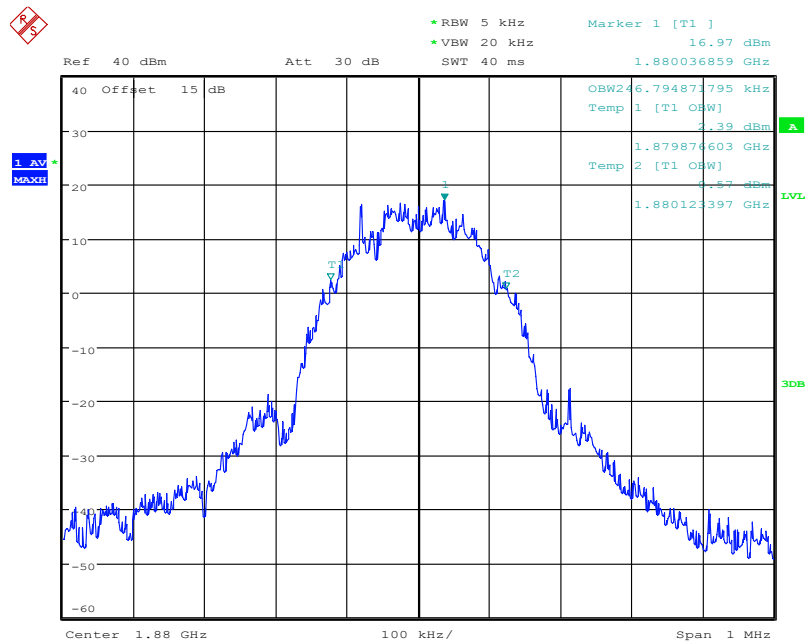
Date: 22.FEB.2020 05:40:17

GMSK 99% Channel 661



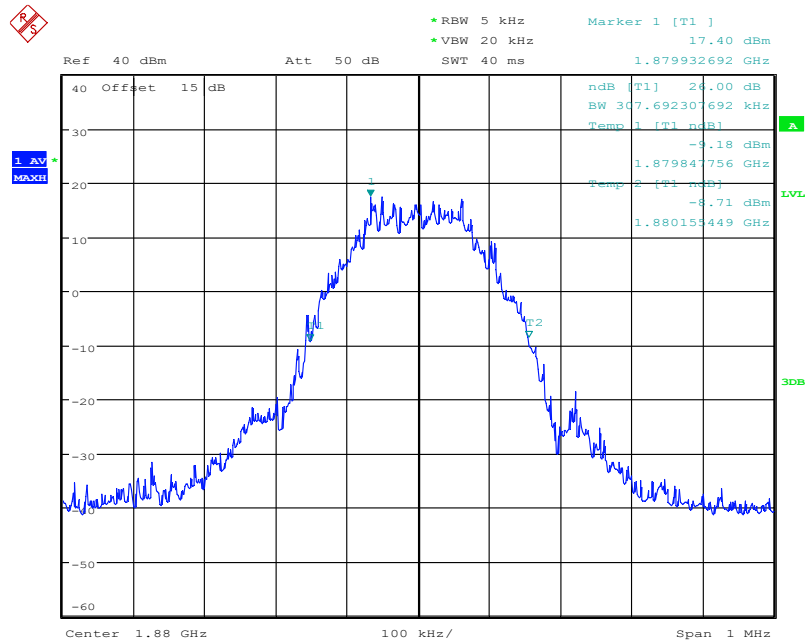
Date: 22.FEB.2020 05:40:51

GMSK -26dBc Channel 661



Date: 22.FEB.2020 06:12:17

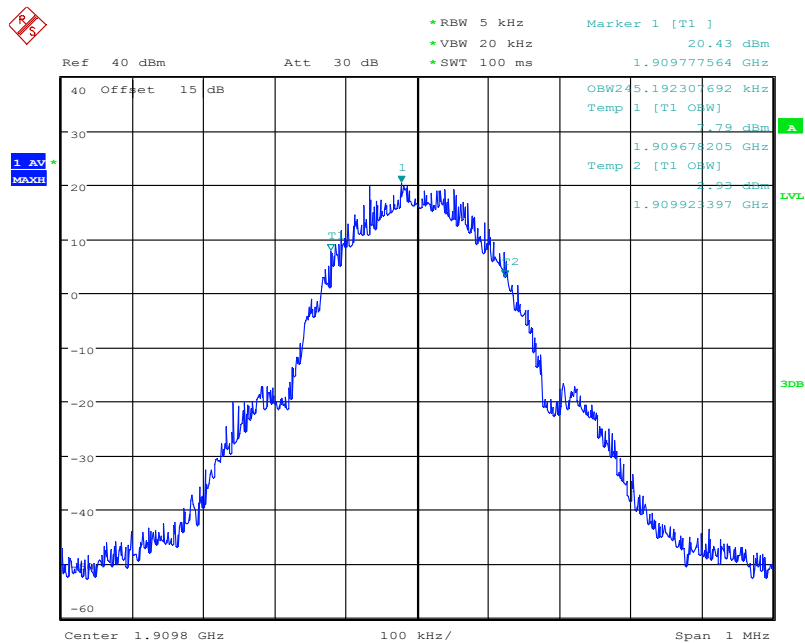
8PSK 99% Channel 661



Date: 22.FEB.2020 06:12:38

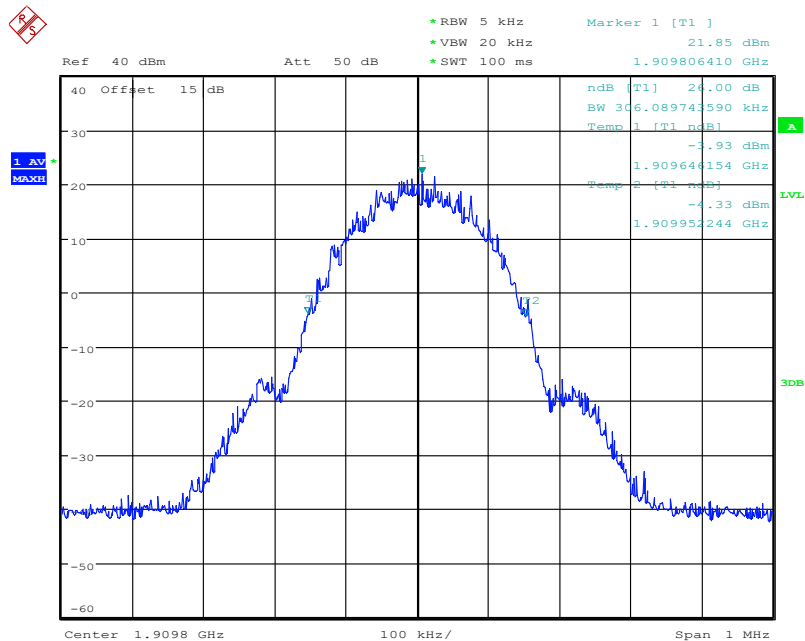
8PSK -26dBc Channel 661

Report No.:B19W50598-WWAN_Rev1



Date: 22.FEB.2020 05:42:09

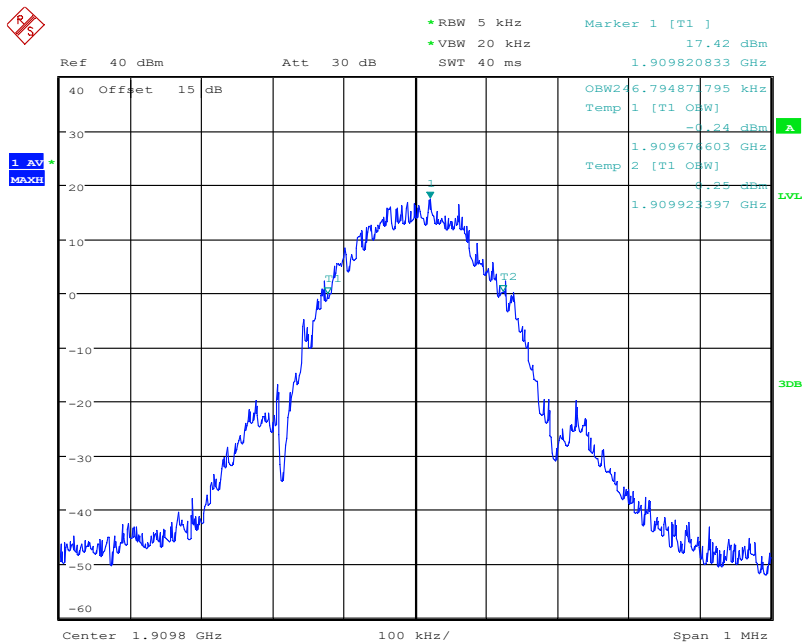
GMSK 99% Channel 810



Date: 22.FEB.2020 05:41:51

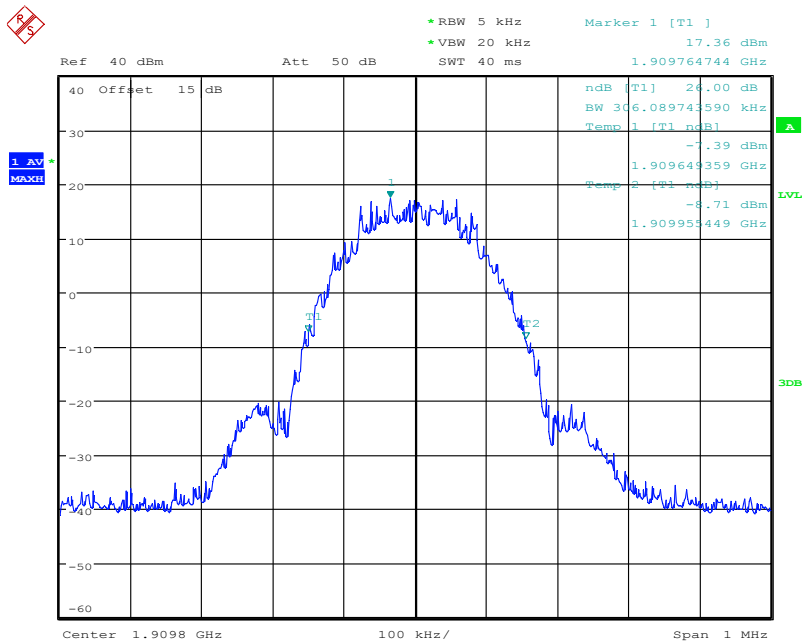
GMSK -26dBc Channel 810

Report No.:B19W50598-WWAN_Rev1



Date: 22.FEB.2020 06:13:26

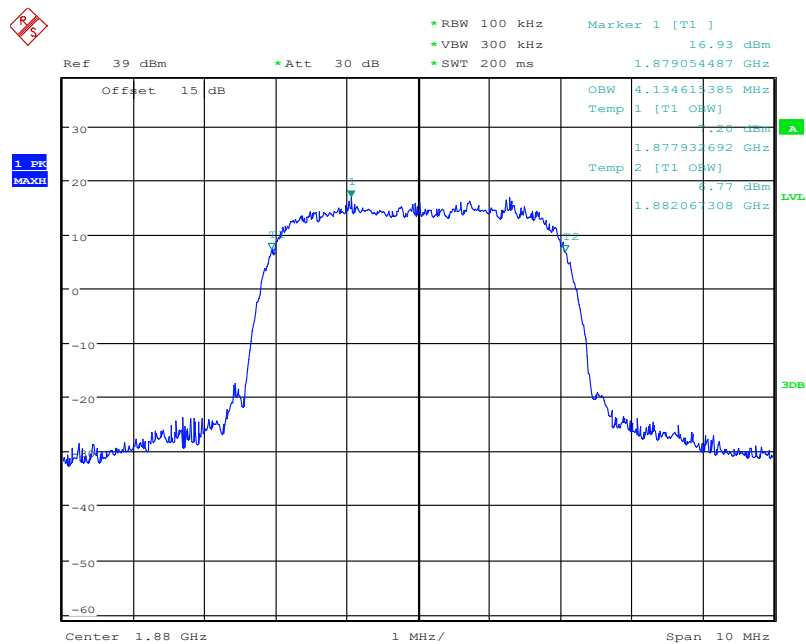
8PSK 99% Channel 810



Date: 22.FEB.2020 06:13:12

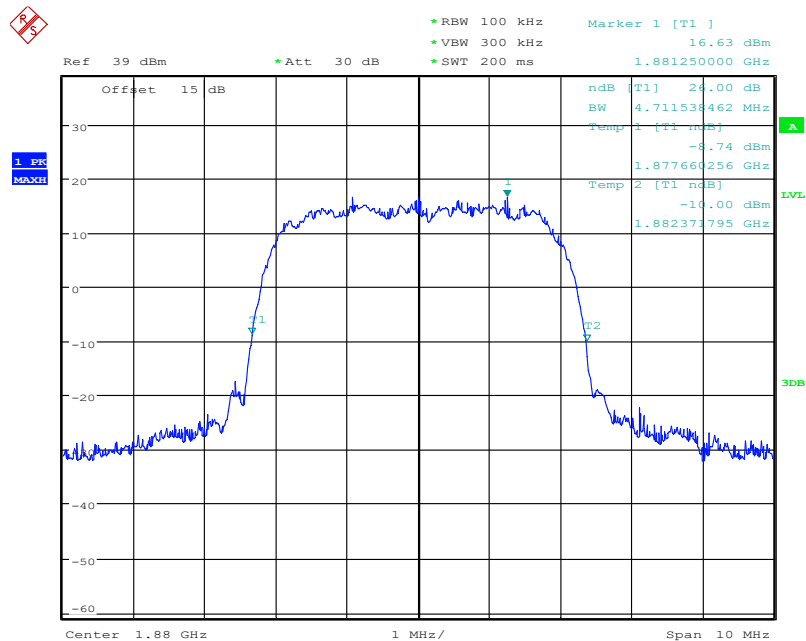
8PSK -26dBc Channel 810

Graphical results for WCDMA Band2:



Date: 22.FEB.2020 01:55:06

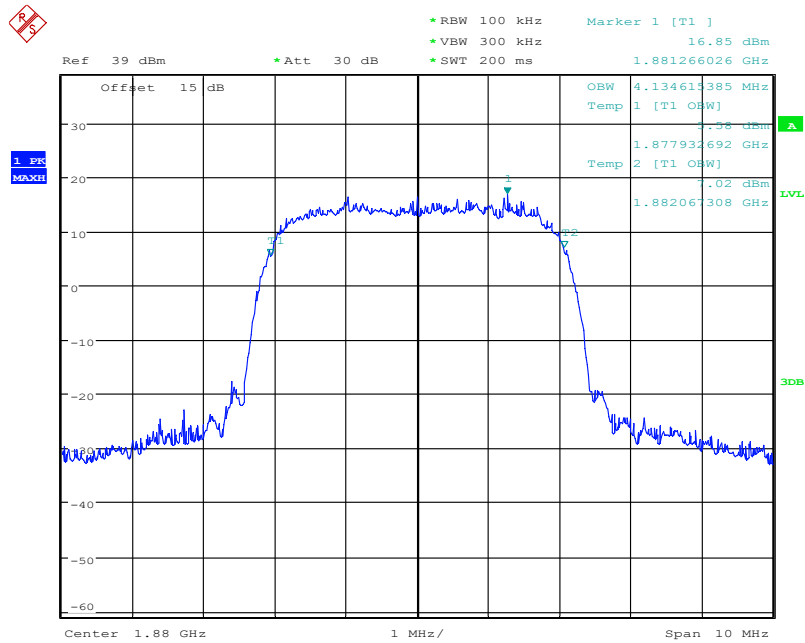
WCDMA B2 99% QPSK



Date: 22.FEB.2020 01:55:33

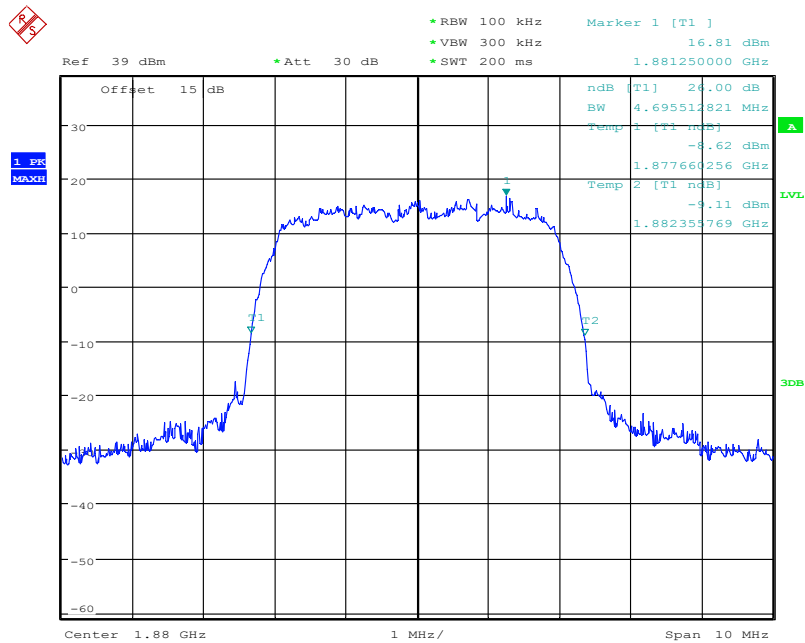
WCDMA B2 -26dBc QPSK

Report No.:B19W50598-WWAN_Rev1



Date: 22.FEB.2020 01:57:42

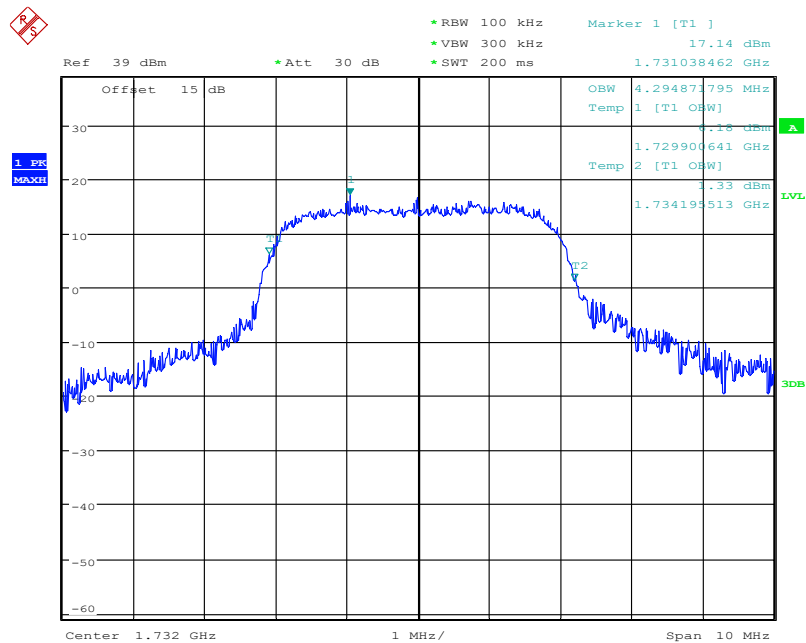
WCDMA B2 99% 16QAM



Date: 22.FEB.2020 01:57:27

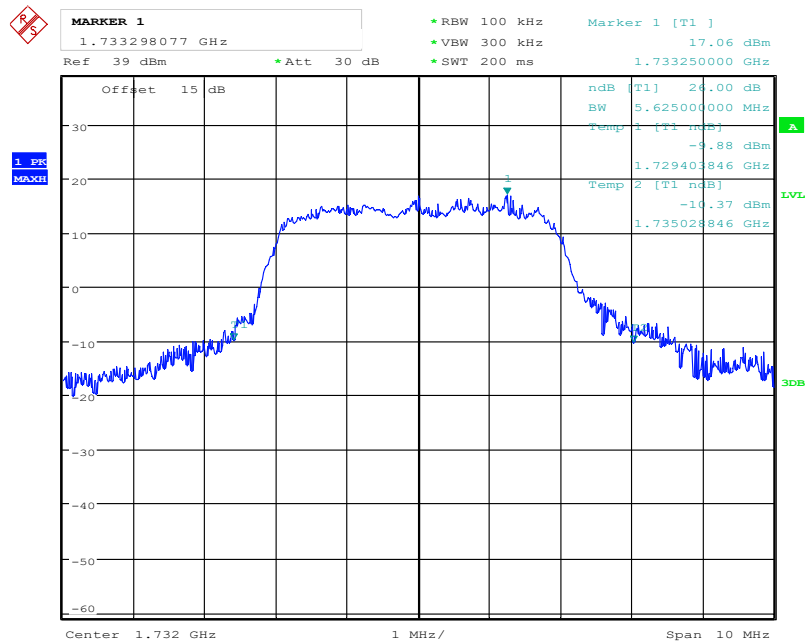
WCDMA B2 -26dBc 16QAM

Report No.:B19W50598-WWAN_Rev1



Date: 22.FEB.2020 02:01:10

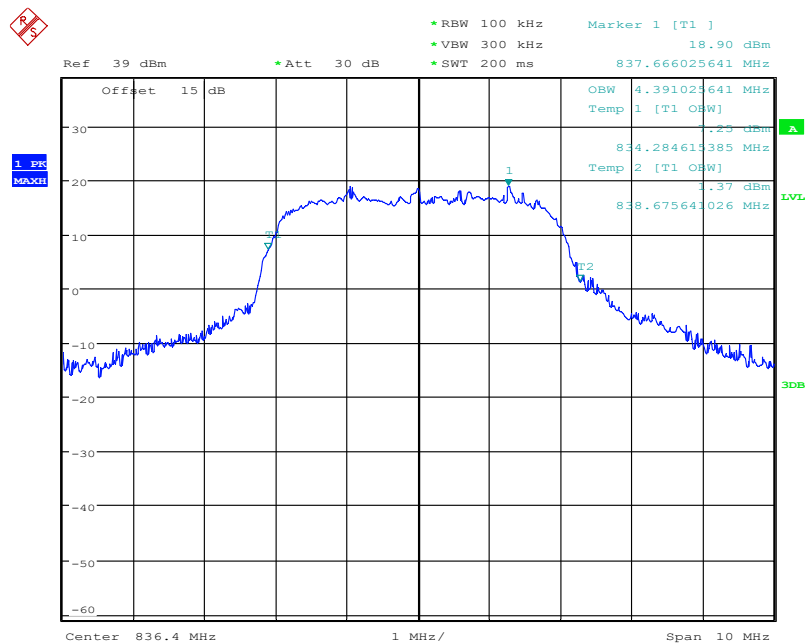
WCDMA B4 99% 16QAM



Date: 22.FEB.2020 02:01:28

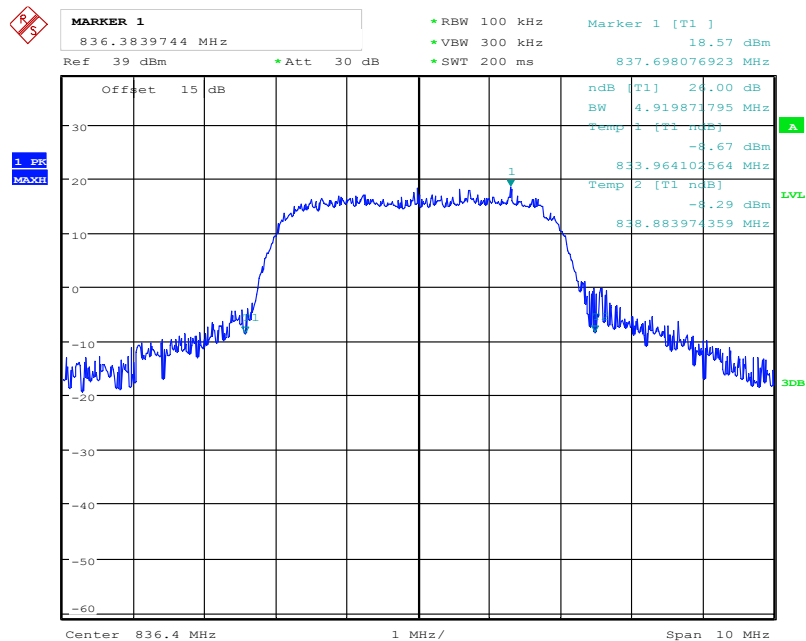
WCDMA B4 -26dBc 16QAM

Graphical results for WCDMA Band5:



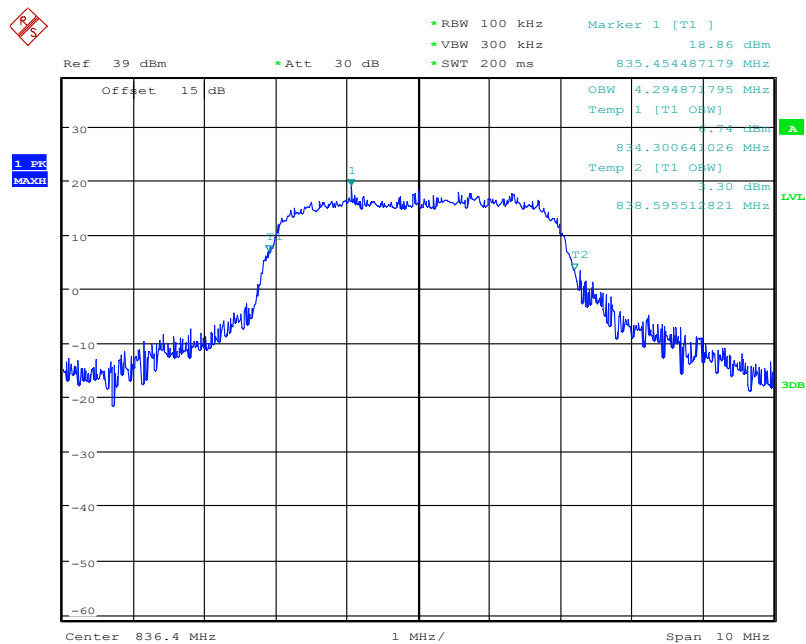
Date: 22.FEB.2020 02:04:36

WCDMA B5 99% QPSK



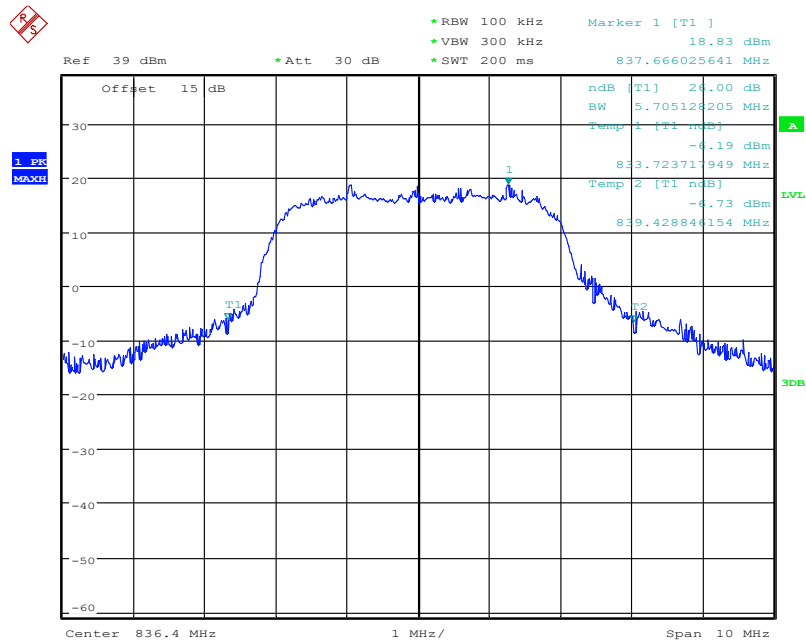
Date: 22.FEB.2020 02:04:59

WCDMA B5 -26dBc QPSK



Date: 22.FEB.2020 02:06:21

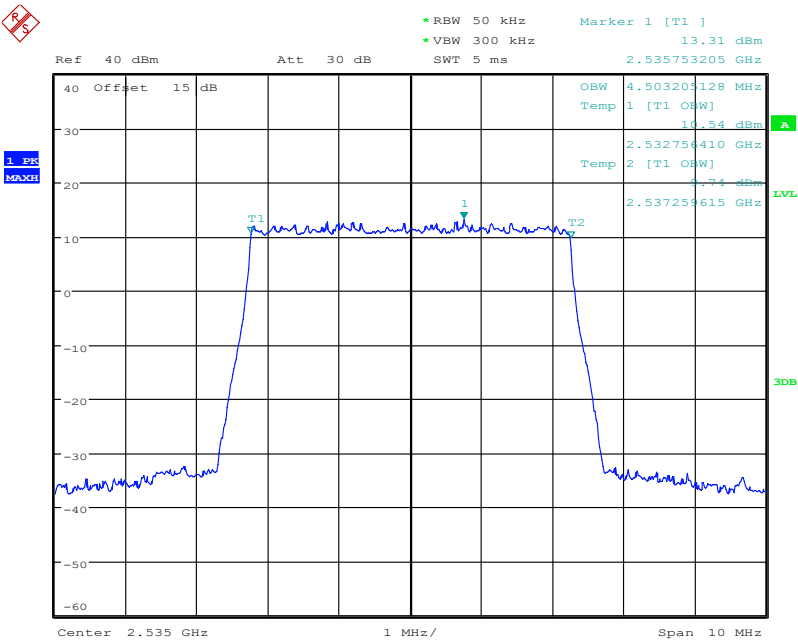
WCDMA B5 99% 16QAM



Date: 22.FEB.2020 02:05:59

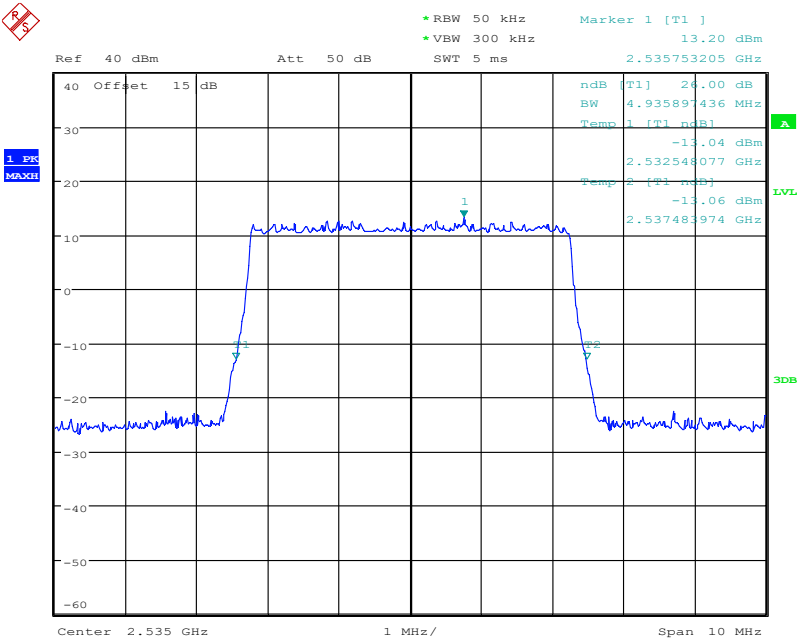
WCDMA B5 -26dBc 16QAM

Graphical results for LTE B7:



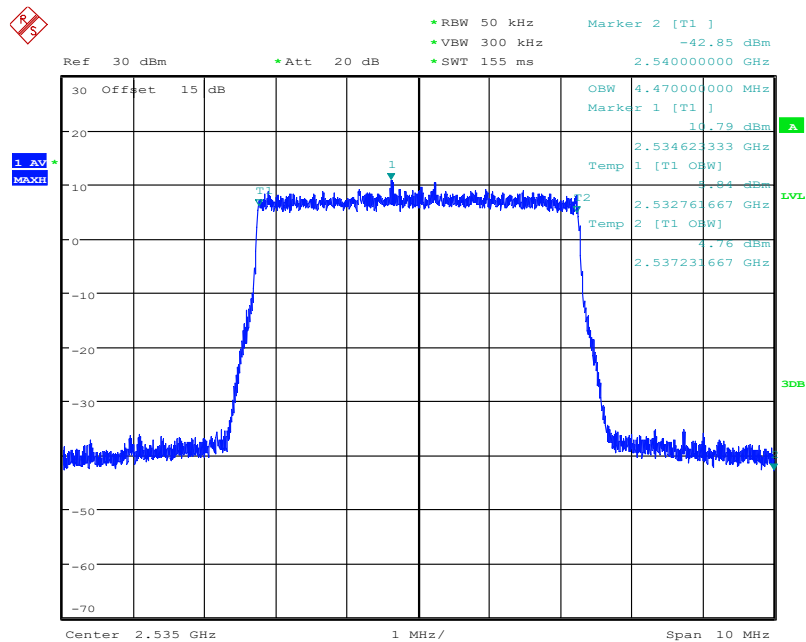
Date: 21.FEB.2020 06:21:18

LTE Band7 QPSK 99% Channel 21100 BW=5MHz RB=25 RB Offset=0



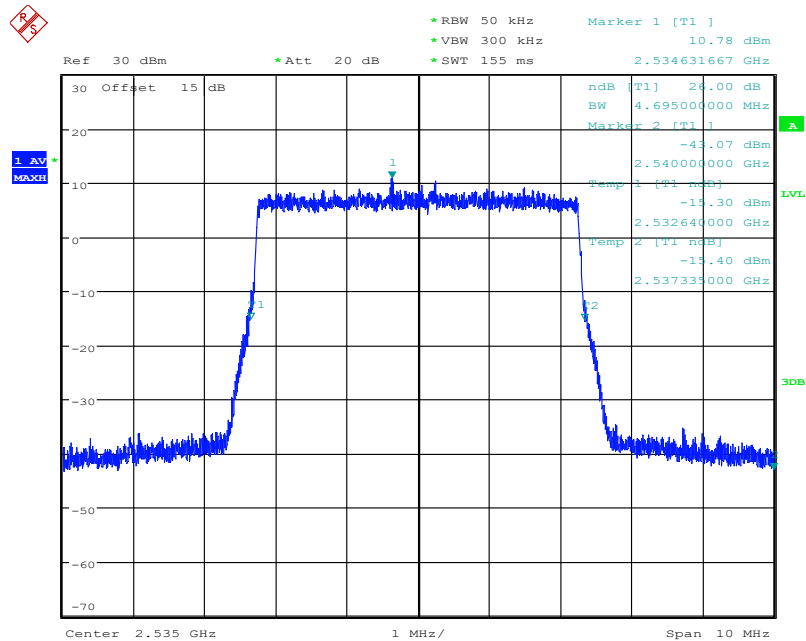
Date: 21.FEB.2020 06:24:42

LTE Band7 QPSK -26dBc Channel 21100 BW=5MHz RB=25 RB Offset=0



Date: 23.FEB.2020 04:14:52

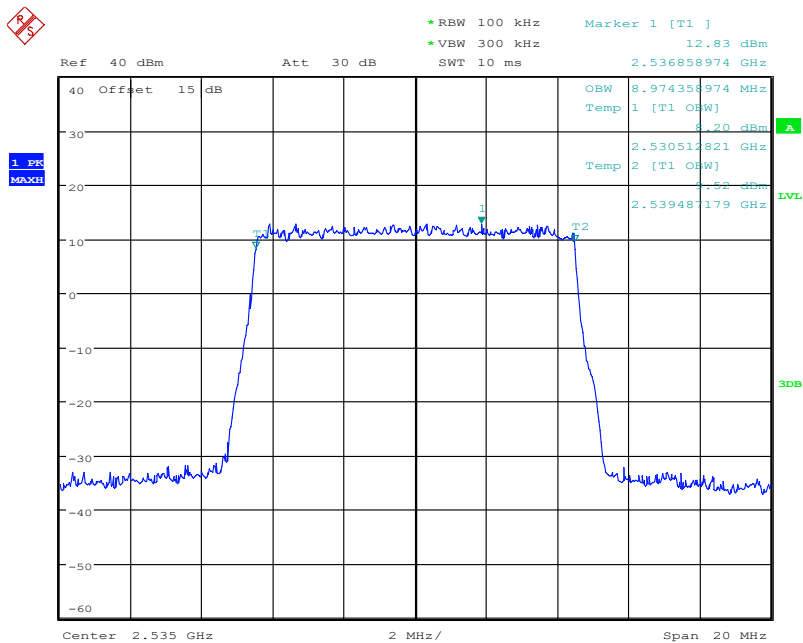
LTE Band7 16QAM 99% Channel 21100 BW=5MHz RB=25 RB Offset=0



Date: 23.FEB.2020 04:15:51

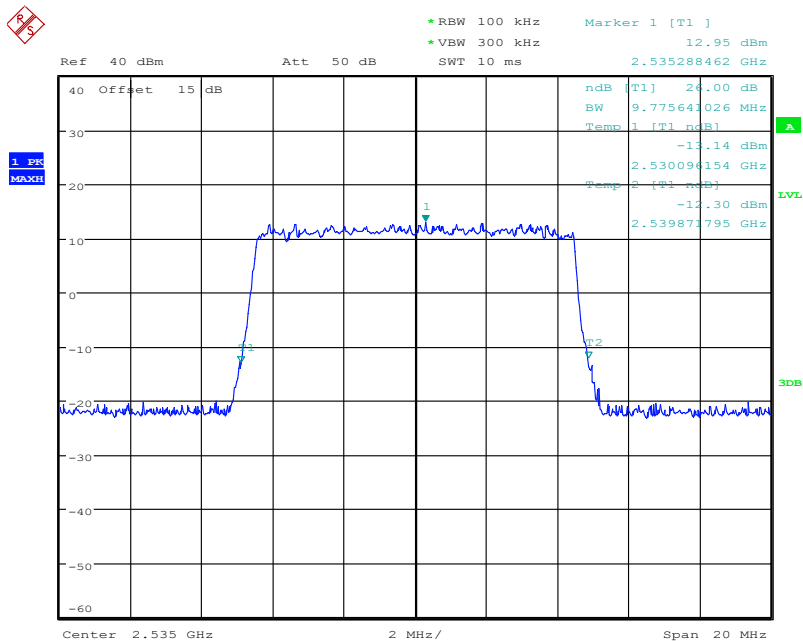
LTE Band7 16QAM -26dBc Channel 21100 BW=5MHz RB=25 RB Offset=0

Report No.:B19W50598-WWAN_Rev1



Date: 21.FEB.2020 06:28:46

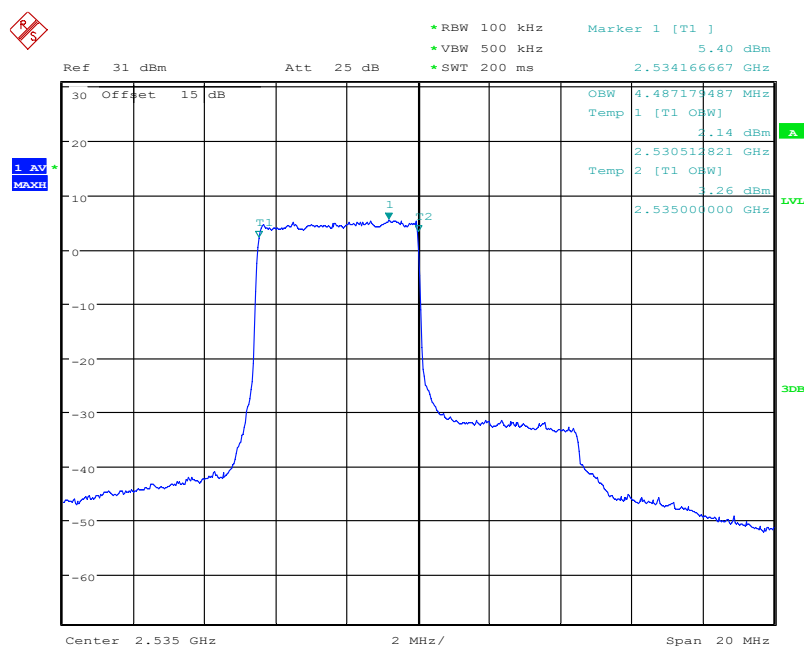
LTE Band7 QPSK 99% Channel 21100 BW=10MHz RB=50 RB Offset=0



Date: 21.FEB.2020 06:27:59

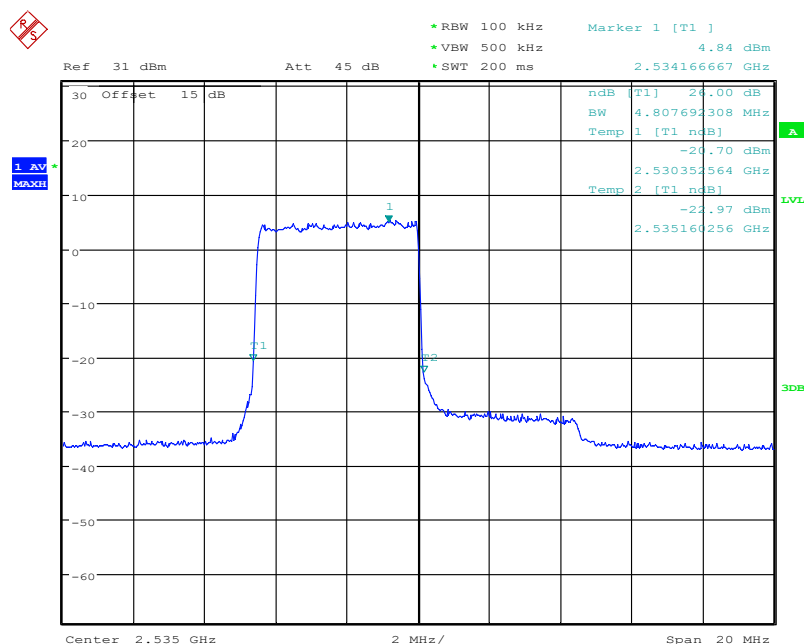
LTE Band7 QPSK -26dBc Channel 21100 BW=10MHz RB=50 RB Offset=0

Report No.:B19W50598-WWAN Rev1



Date: 25.FEB.2020 15:52:31

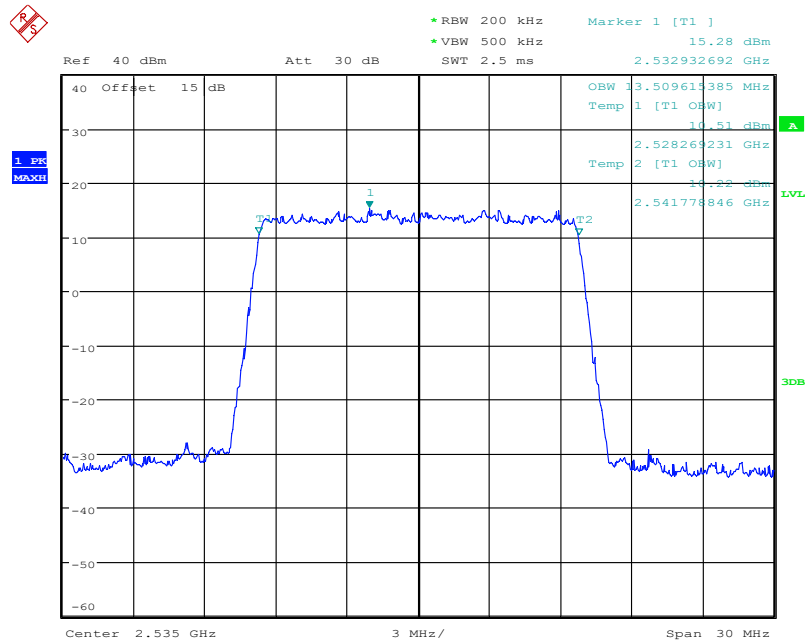
LTE Band7 16QAM 99% Channel 21100 BW=10MHz RB=25 RB Offset=0



Date: 25.FEB.2020 15:53:24

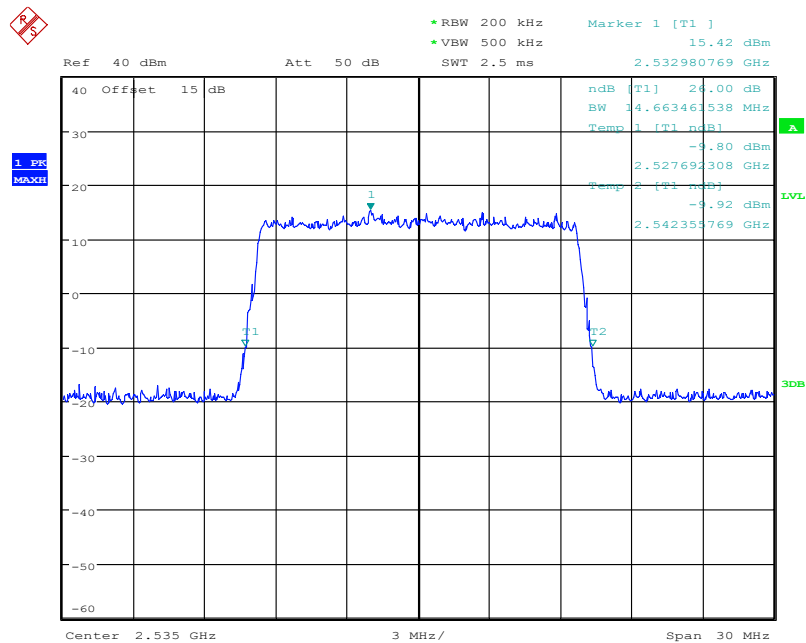
LTE Band7 16QAM -26dBc Channel 21100 BW=10MHz RB=25 RB Offset=0

Report No.:B19W50598-WWAN_Rev1



Date: 21.FEB.2020 06:33:18

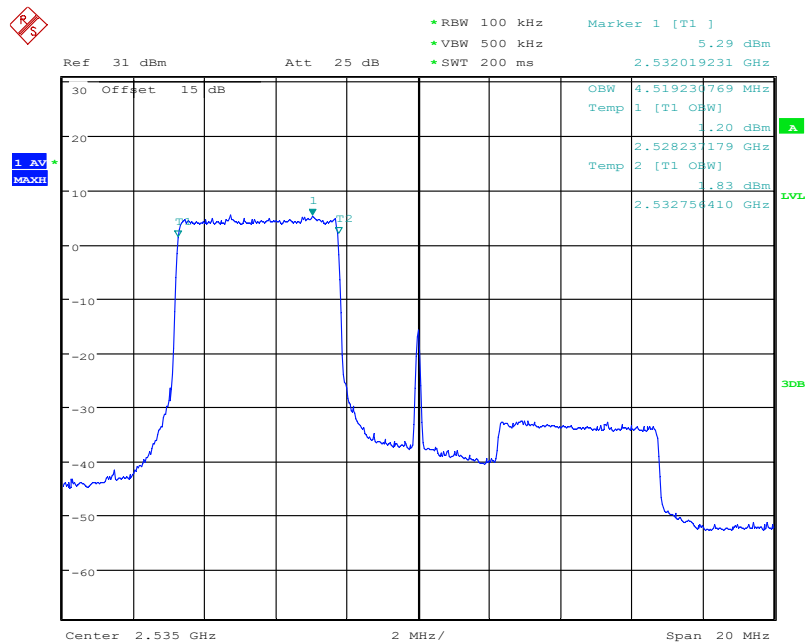
LTE Band7 QPSK 99% Channel 21100 BW=15MHz RB=75 RB Offset=0



Date: 21.FEB.2020 06:34:28

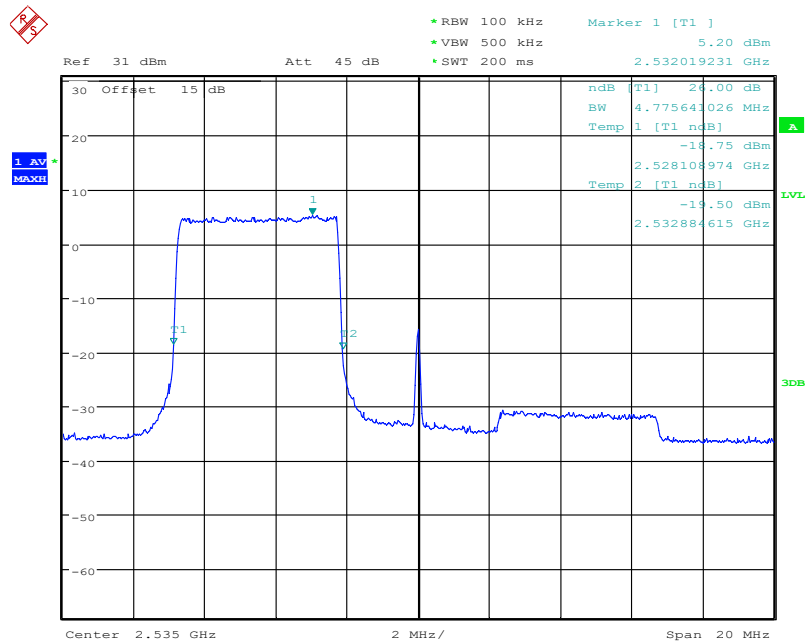
LTE Band7 QPSK -26dBc Channel 21100 BW=15MHz RB=75 RB Offset=0

Report No.:B19W50598-WWAN_Rev1



Date: 25.FEB.2020 15:55:39

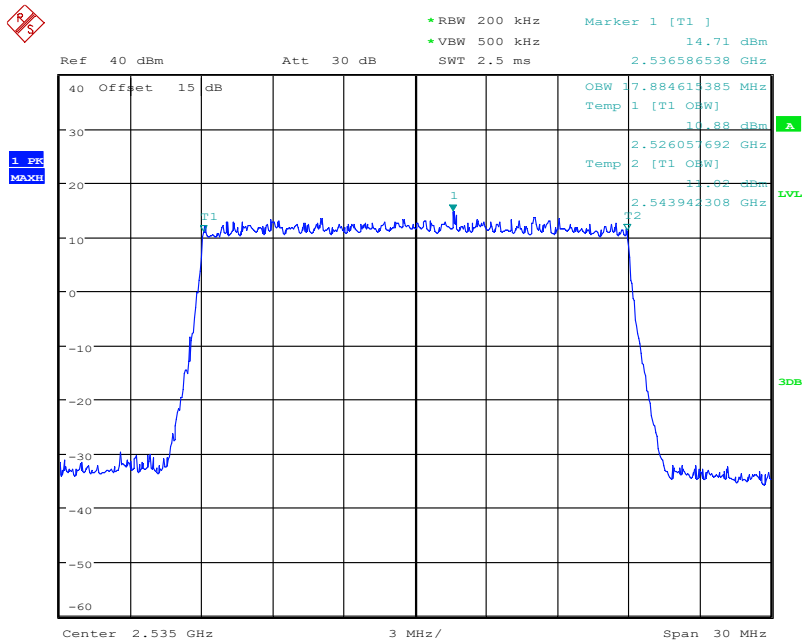
LTE Band7 16QAM 99% Channel 21100 BW=15MHz RB=25 RB Offset=0



Date: 25.FEB.2020 15:55:10

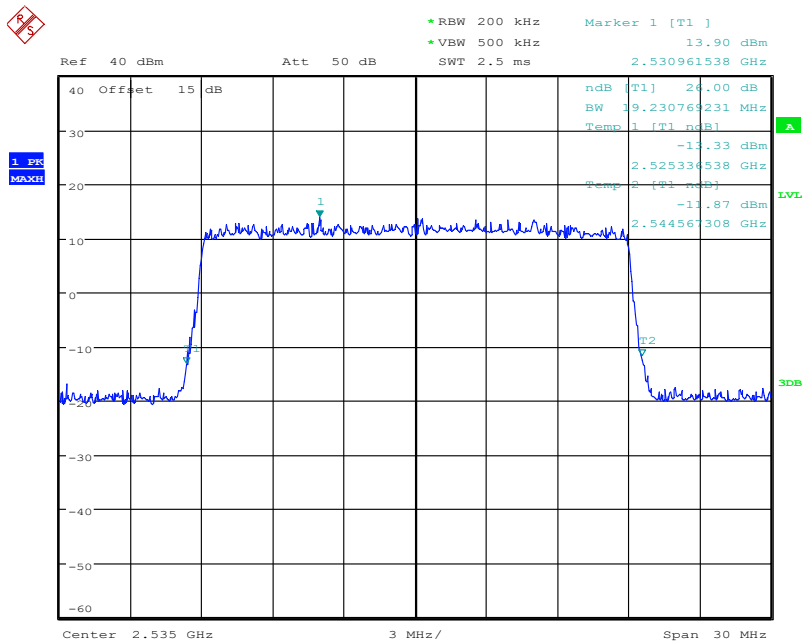
LTE Band7 16QAM -26dBc Channel 21100 BW=15MHz RB=25 RB Offset=0

Report No.:B19W50598-WWAN_Rev1



Date: 21.FEB.2020 06:36:12

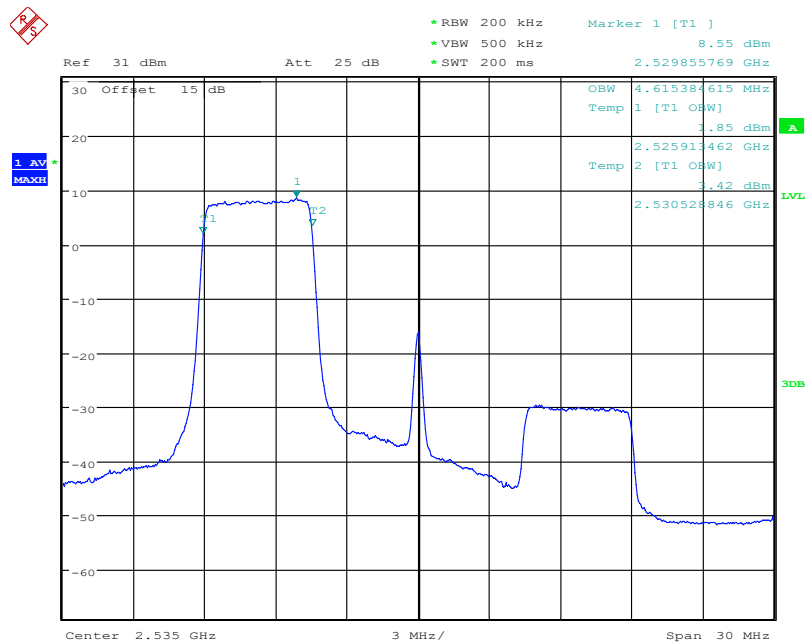
LTE Band7 QPSK 99% Channel 21100 BW=20MHz RB=100 RB Offset=0



Date: 21.FEB.2020 06:35:27

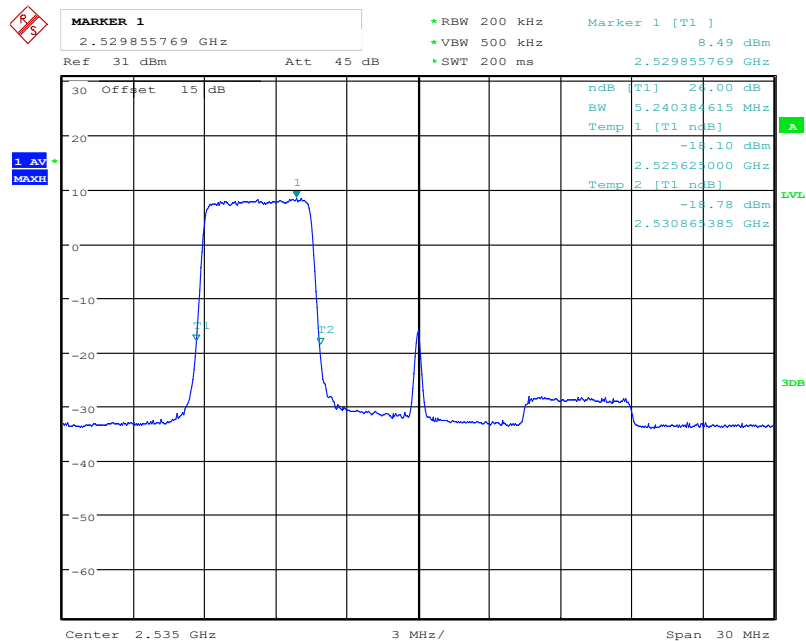
LTE Band7 QPSK -26dBc Channel 21100 BW=20MHz RB=100 RB Offset=0

Report No.:B19W50598-WWAN_Rev1



Date: 25.FEB.2020 15:57:55

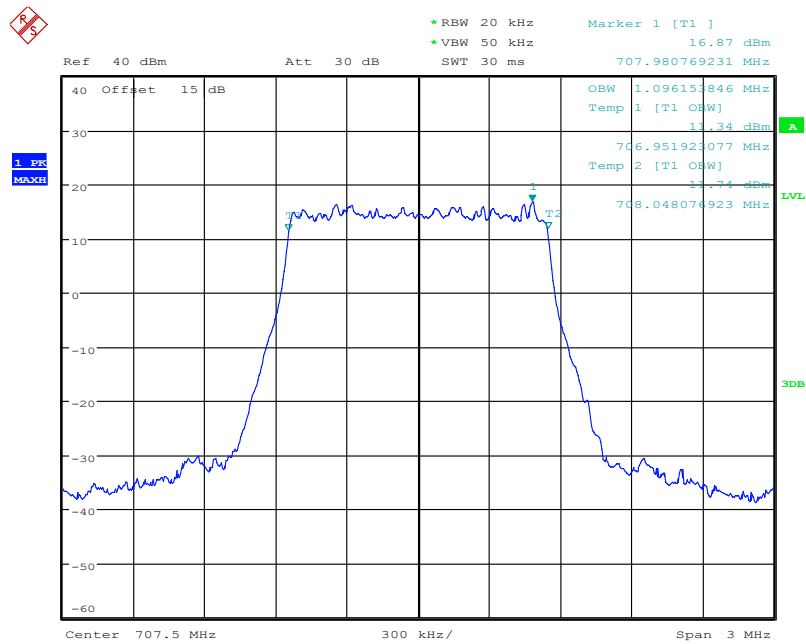
LTE Band7 16QAM 99% Channel 21100 BW=20MHz RB=25 RB Offset=0



Date: 25.FEB.2020 15:58:20

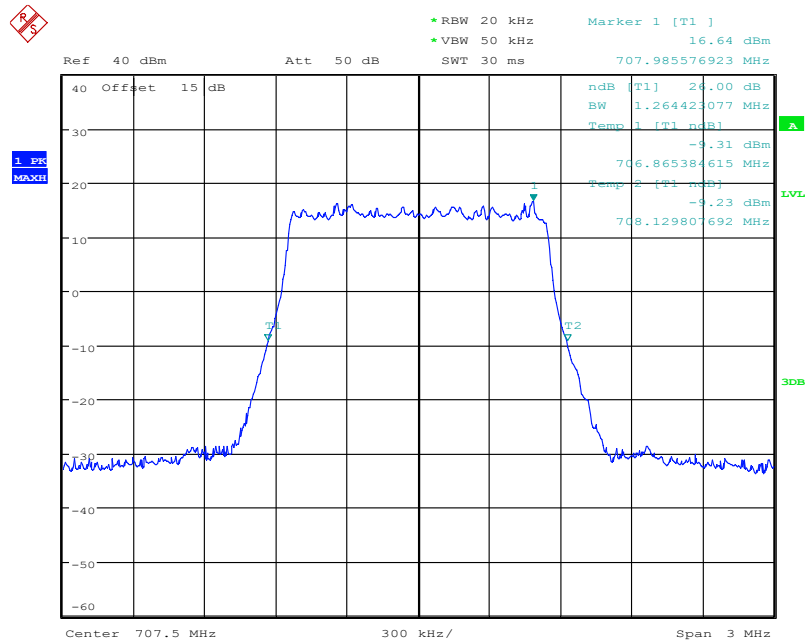
LTE Band7 16QAM -26dBc Channel 21100 BW=20MHz RB=25 RB Offset=0

Graphical results for LTE B12:



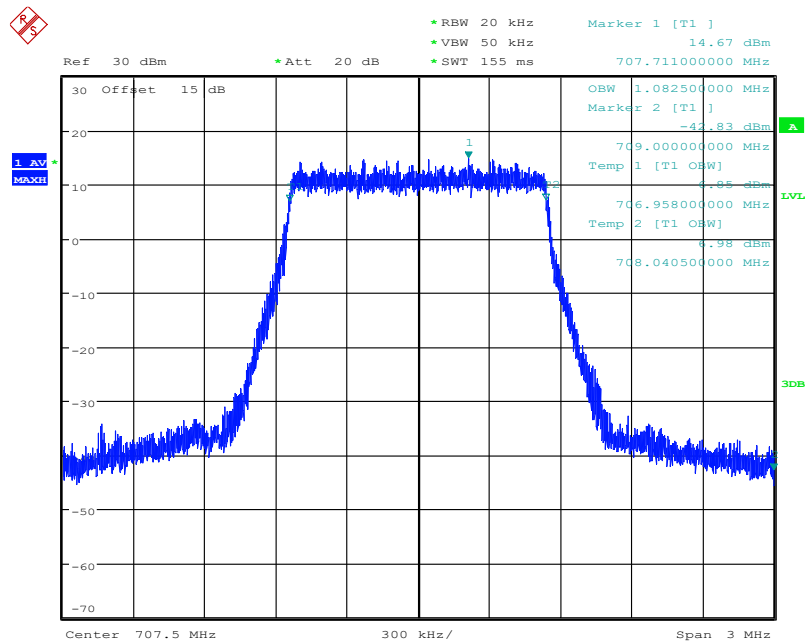
Date: 21.FEB.2020 06:42:27

LTE Band12 QPSK 99% Channel 23095 BW=1.4MHz RB=6 RB Offset=0



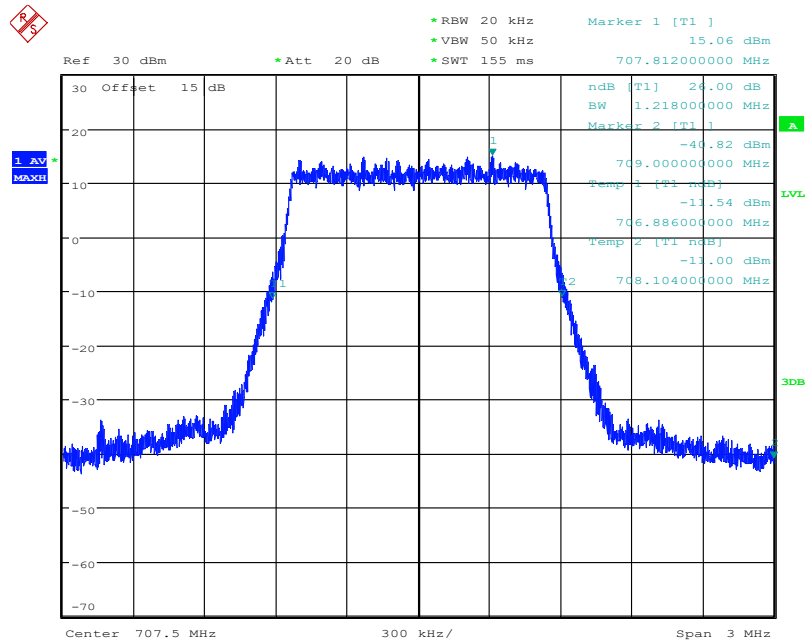
Date: 21.FEB.2020 06:43:06

LTE Band12 QPSK -26dBc Channel 23095 BW=1.4MHz RB=6 RB Offset=0



Date: 23.FEB.2020 04:18:33

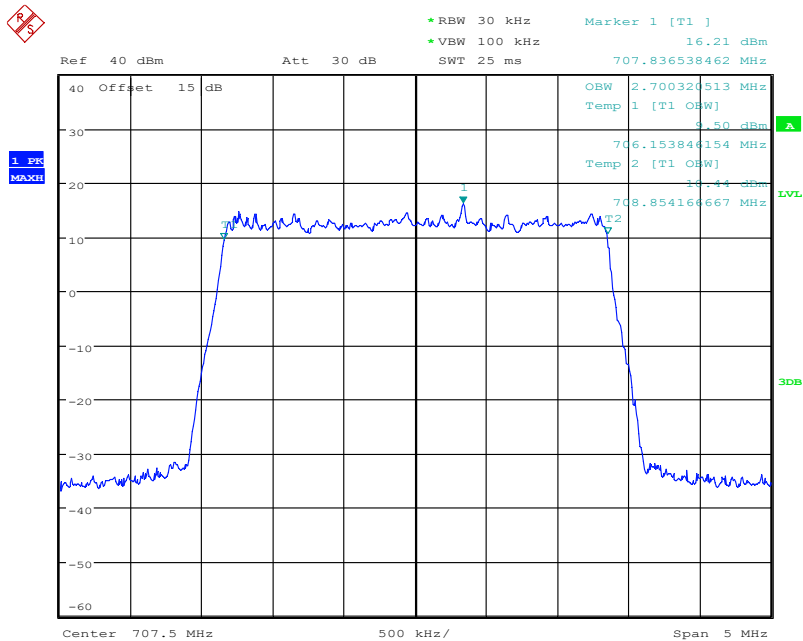
LTE Band12 16QAM 99% Channel 23095 BW=1.4MHz RB=6 RB Offset=0



Date: 23.FEB.2020 04:18:14

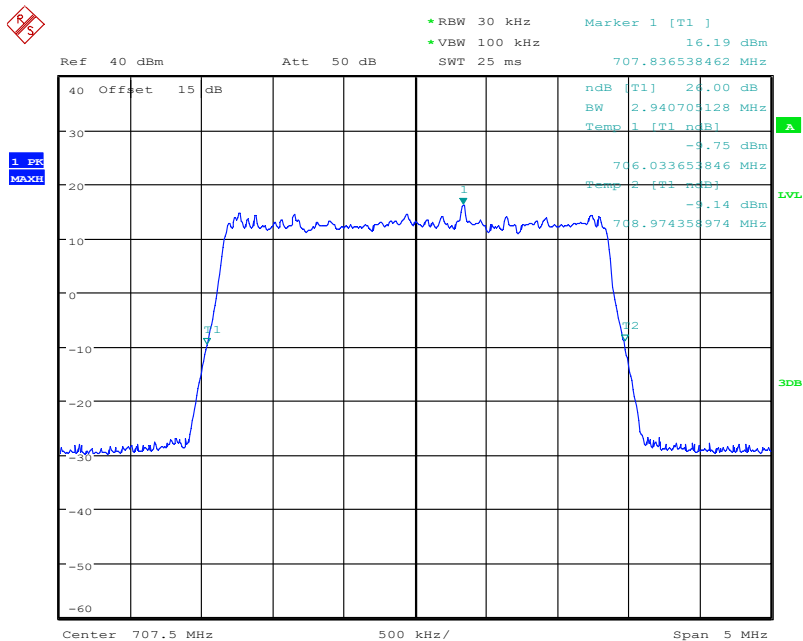
LTE Band12 16QAM -26dBc Channel 23095 BW=1.4MHz RB=6 RB Offset=0

Report No.:B19W50598-WWAN_Rev1



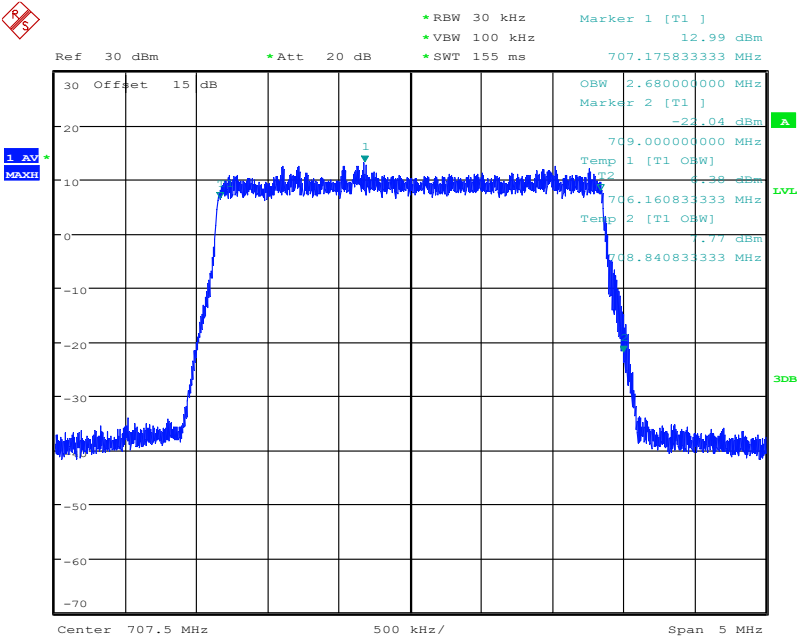
Date: 21.FEB.2020 06:48:22

LTE Band12 QPSK 99% Channel 23095 BW=3MHz RB=15 RB Offset=0



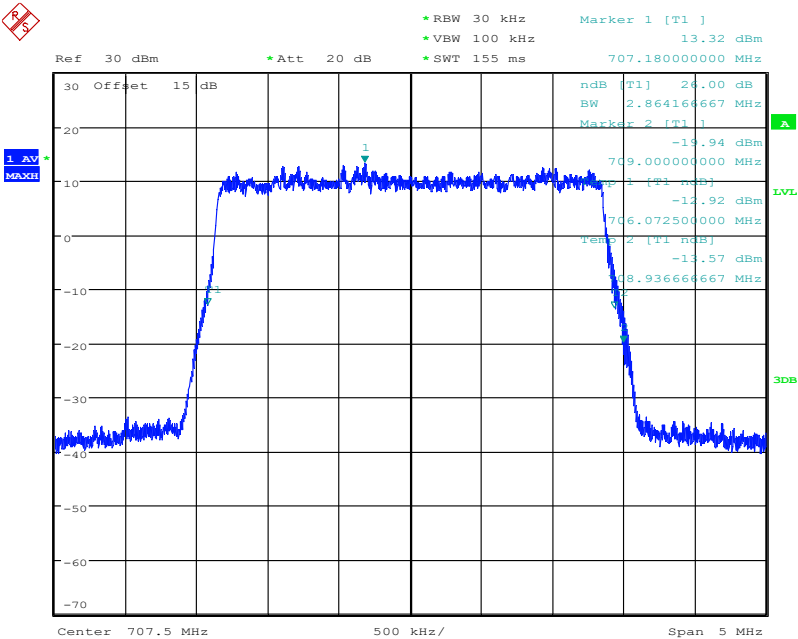
Date: 21.FEB.2020 06:47:38

LTE Band12 QPSK -26dBc Channel 23095 BW=3MHz RB=15 RB Offset=0



Date: 23.FEB.2020 04:20:27

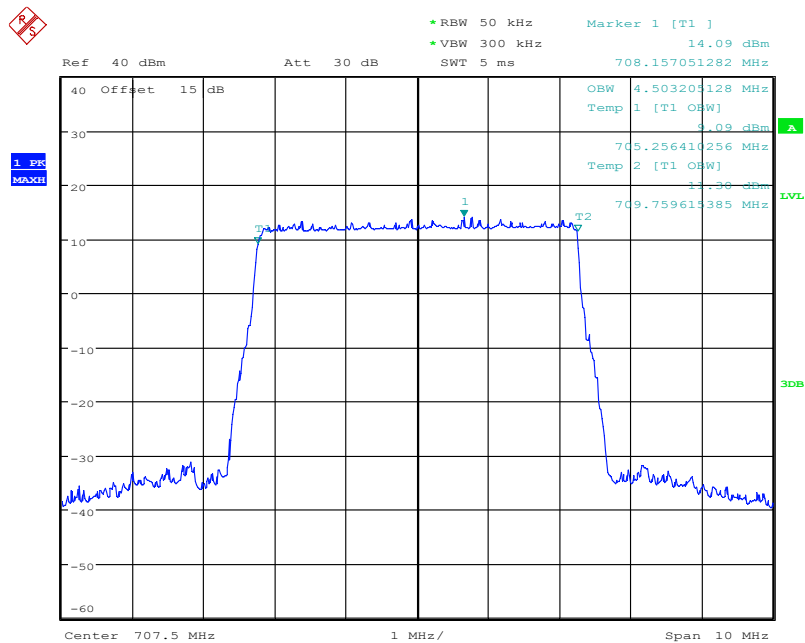
LTE Band12 16QAM 99% Channel 23095 BW=3MHz RB=15 RB Offset=0



Date: 23.FEB.2020 04:23:26

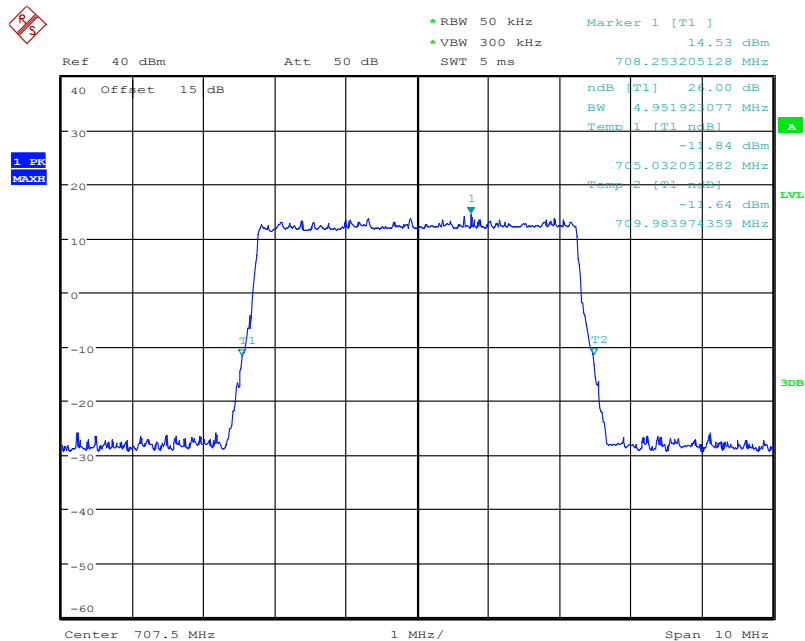
LTE Band12 16QAM -26dBc Channel 23095 BW=3MHz RB=15 RB Offset=0

Report No.:B19W50598-WWAN_Rev1



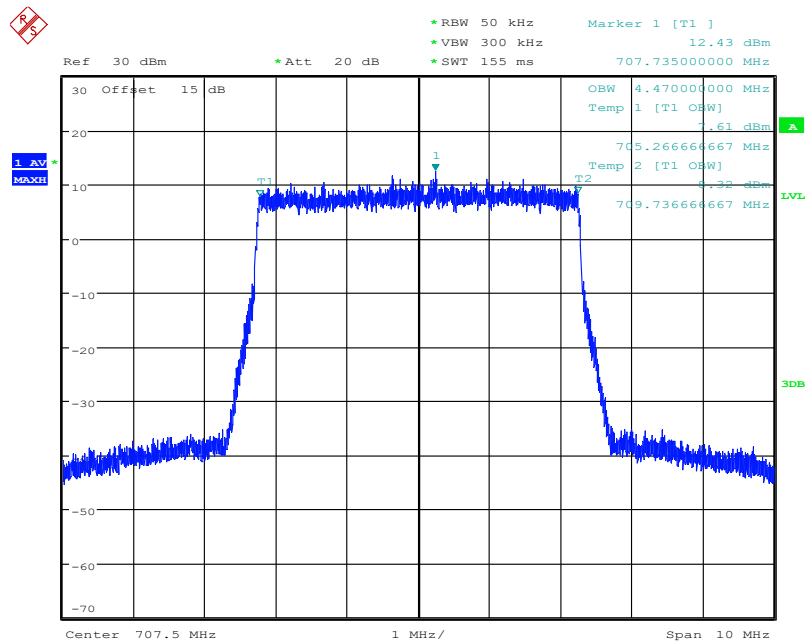
Date: 21.FEB.2020 06:49:20

LTE Band12 QPSK 99% Channel 23095 BW=5MHz RB=25 RB Offset=0



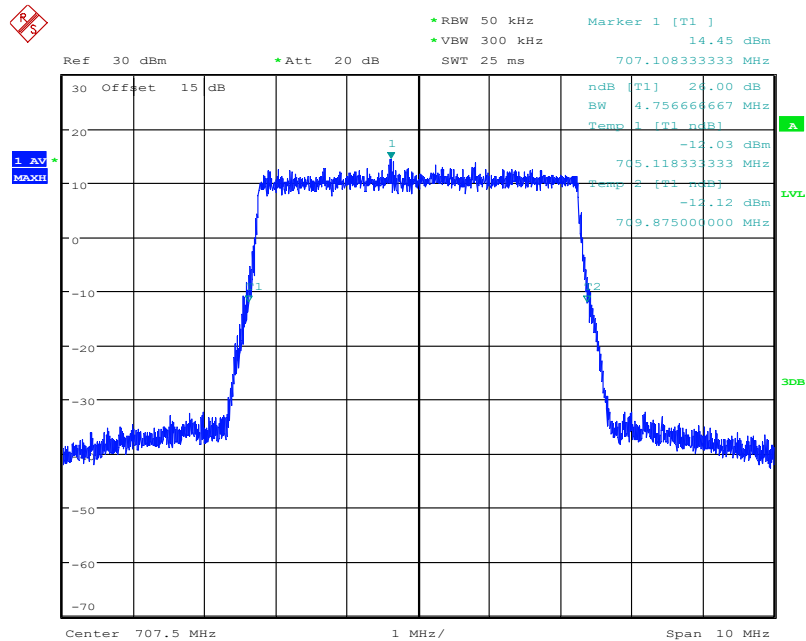
Date: 21.FEB.2020 06:49:55

LTE Band12 QPSK -26dBc Channel 23095 BW=5MHz RB=25 RB Offset=0



Date: 23.FEB.2020 04:25:37

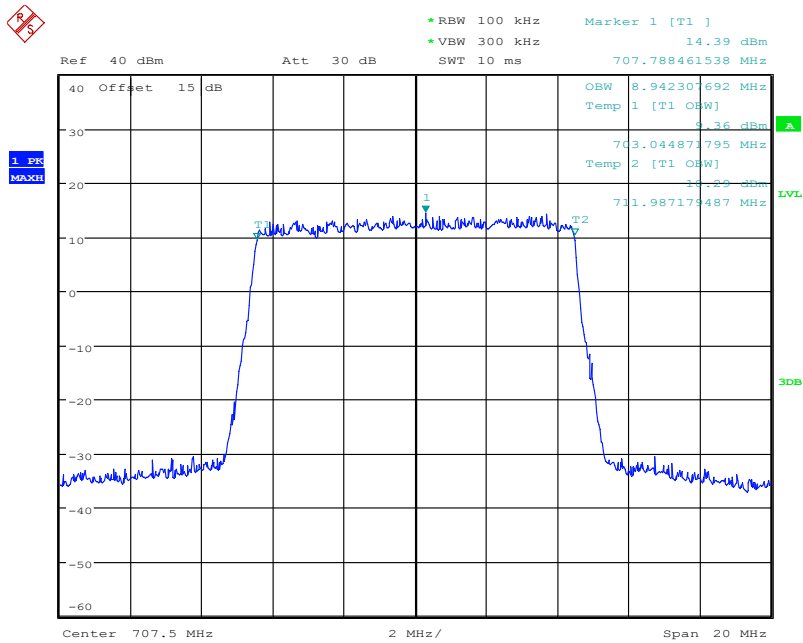
LTE Band12 16QAM 99% Channel 23095 BW=5MHz RB=25 RB Offset=0



Date: 23.FEB.2020 04:26:27

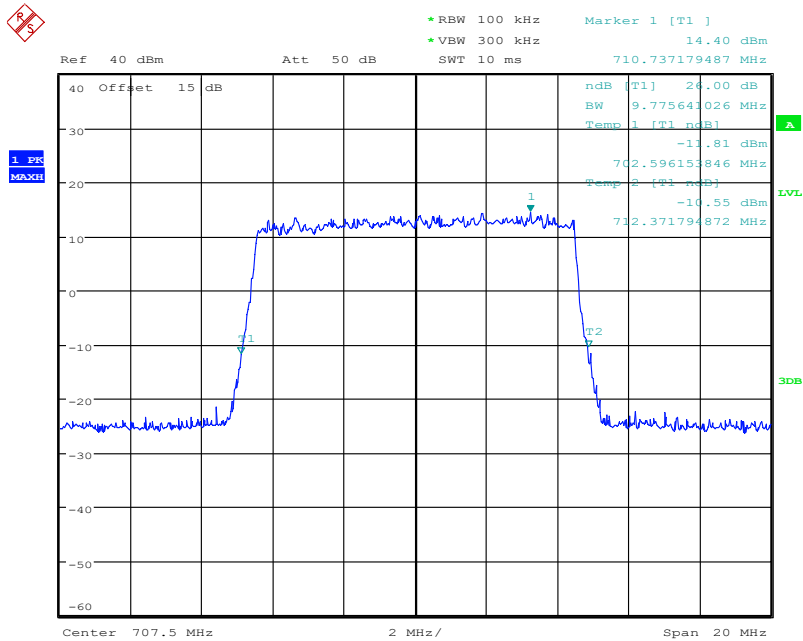
LTE Band12 16QAM -26dBc Channel 23095 BW=5MHz RB=25 RB Offset=0

Report No.:B19W50598-WWAN_Rev1



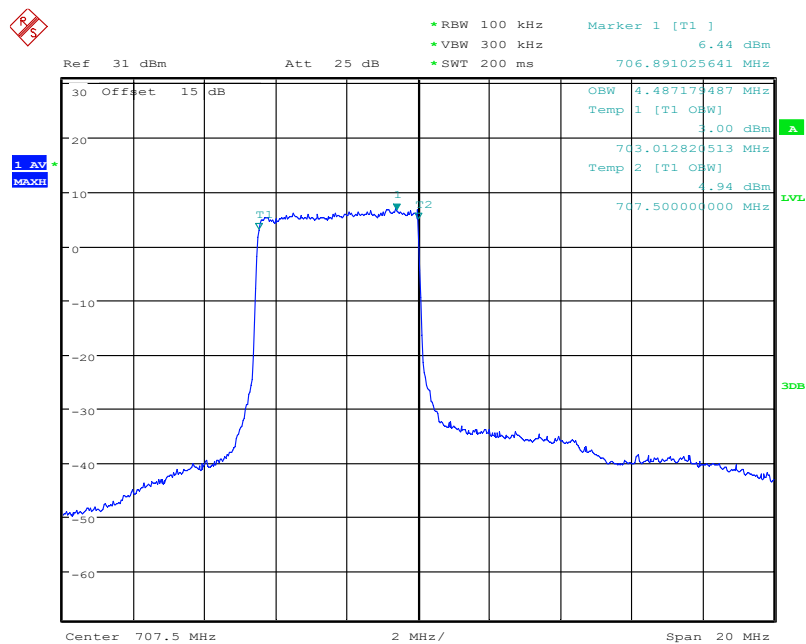
Date: 21.FEB.2020 06:51:24

LTE Band12 QPSK 99% Channel 23095 BW=10MHz RB=50 RB Offset=0



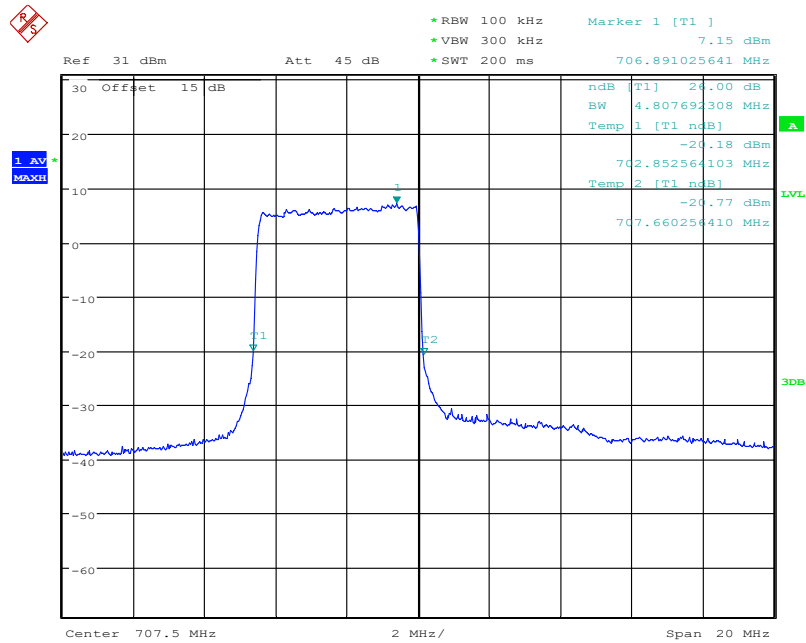
Date: 21.FEB.2020 06:50:58

LTE Band12 QPSK -26dBc Channel 23095 BW=10MHz RB=50 RB Offset=0



Date: 25.FEB.2020 16:04:10

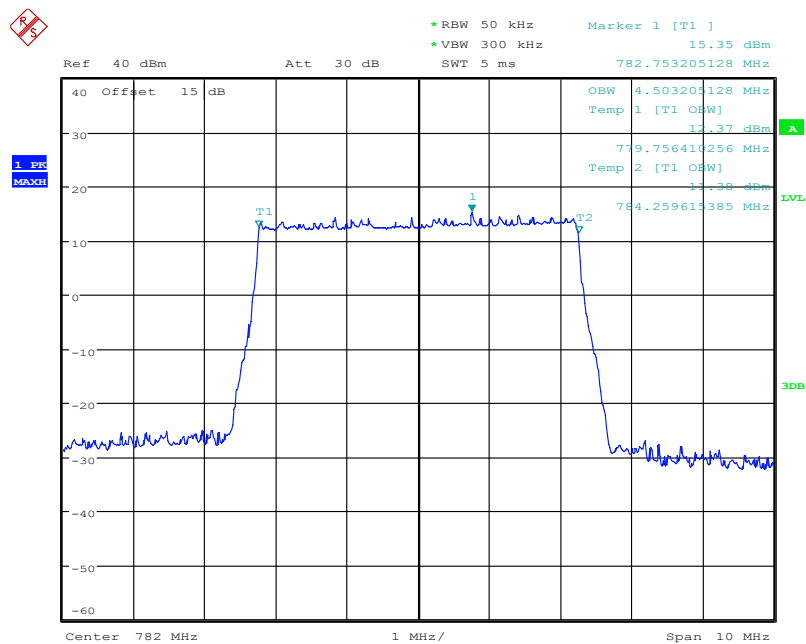
LTE Band12 16QAM 99% Channel 23095 BW=10MHz RB=25 RB Offset=0



Date: 25.FEB.2020 16:03:43

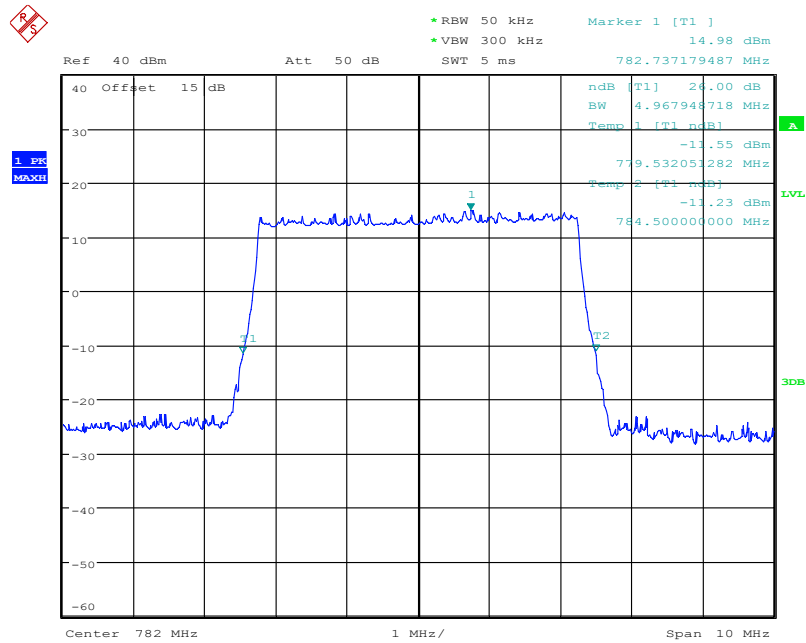
LTE Band12 16QAM -26dBc Channel 23095 BW=10MHz RB=25 RB Offset=0

Graphical results for LTE B13:



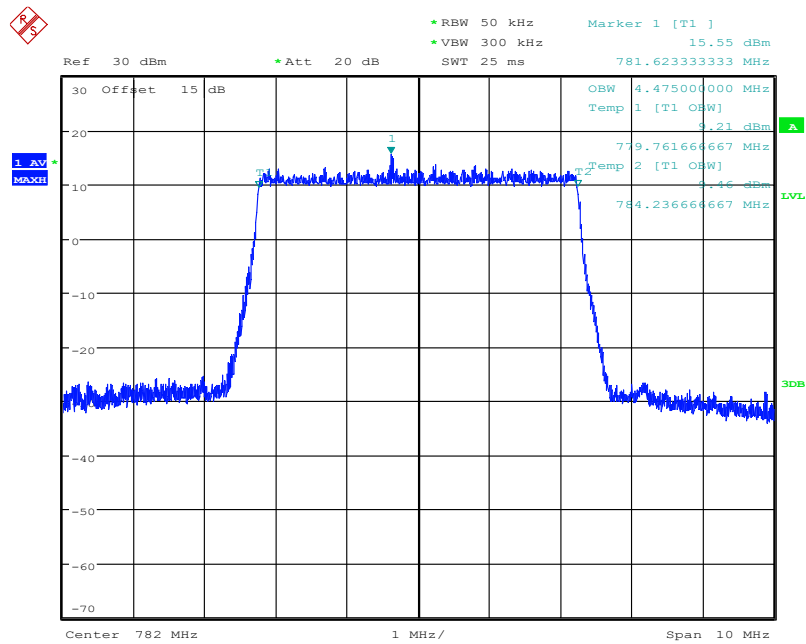
Date: 21.FEB.2020 06:55:48

LTE Band13 QPSK 99% Channel 23230 BW=5MHz RB=25 RB Offset=0



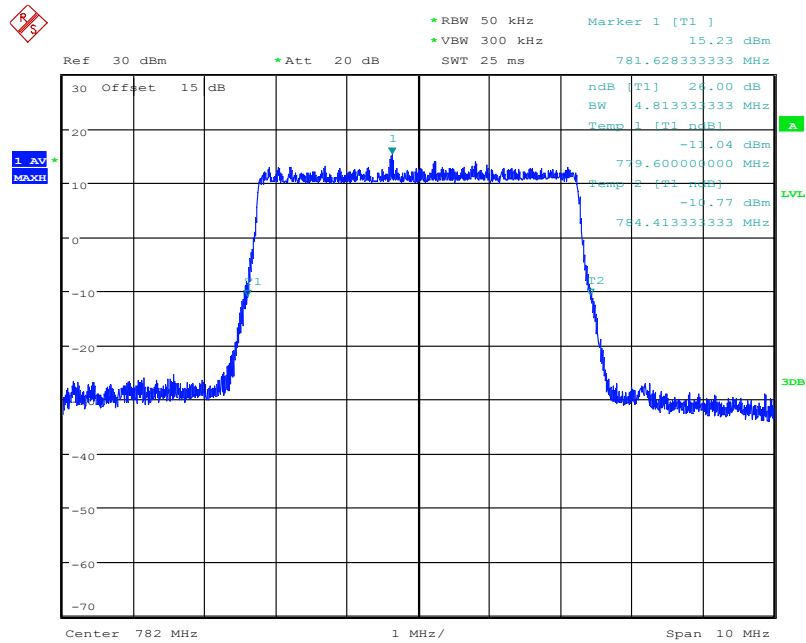
Date: 21.FEB.2020 06:55:20

LTE Band13 QPSK -26dBc Channel 23230 BW=5MHz RB=25 RB Offset=0



Date: 23.FEB.2020 04:39:40

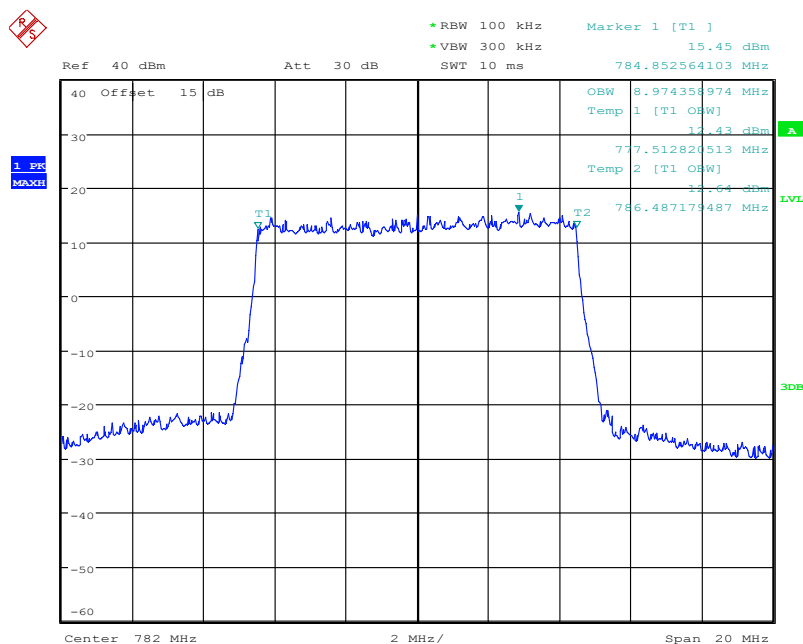
LTE Band13 16QAM 99% Channel 23230 BW=5MHz RB=25 RB Offset=0



Date: 23.FEB.2020 04:42:08

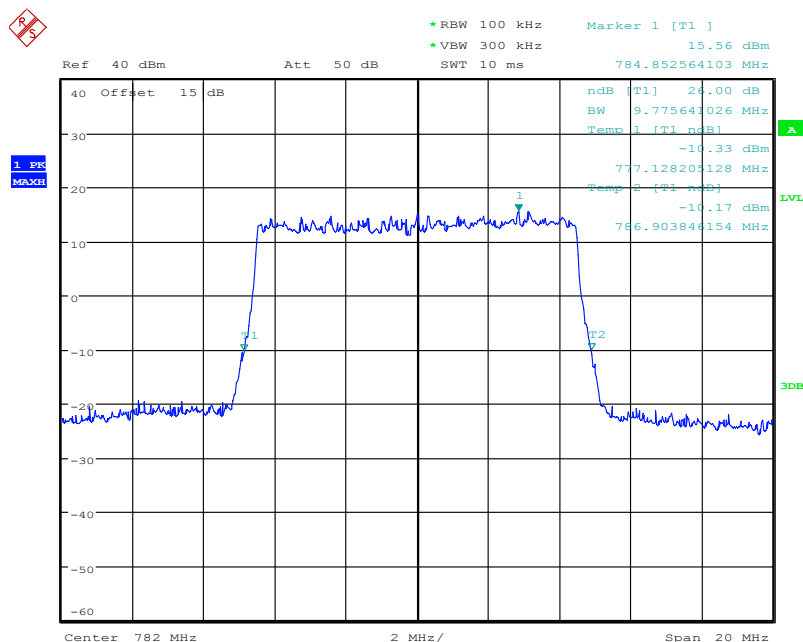
LTE Band13 16QAM -26dBc Channel 23230 BW=5MHz RB=25 RB Offset=0

Report No.:B19W50598-WWAN Rev1



Date: 21.FEB.2020 06:53:26

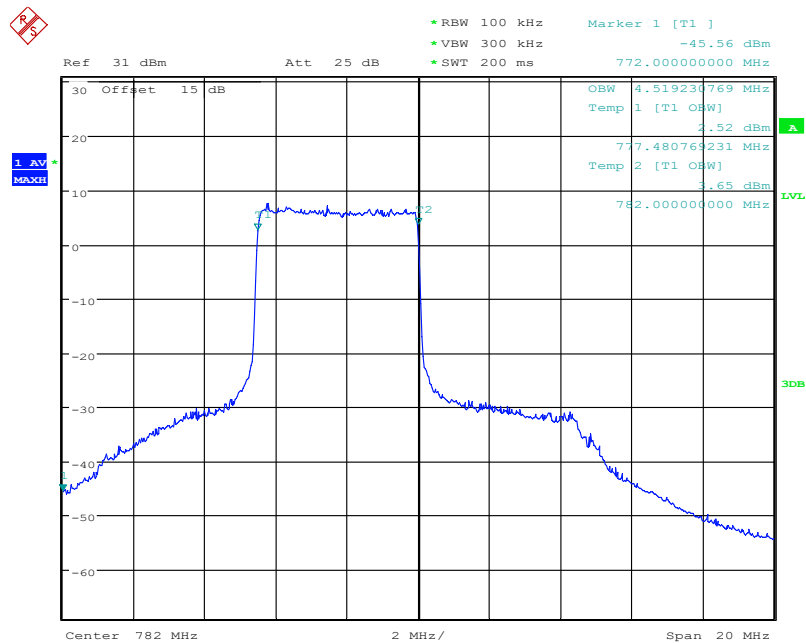
LTE Band13 QPSK 99% Channel 23230 BW=10MHz RB=50 RB Offset=0



Date: 21.FEB.2020 06:54:00

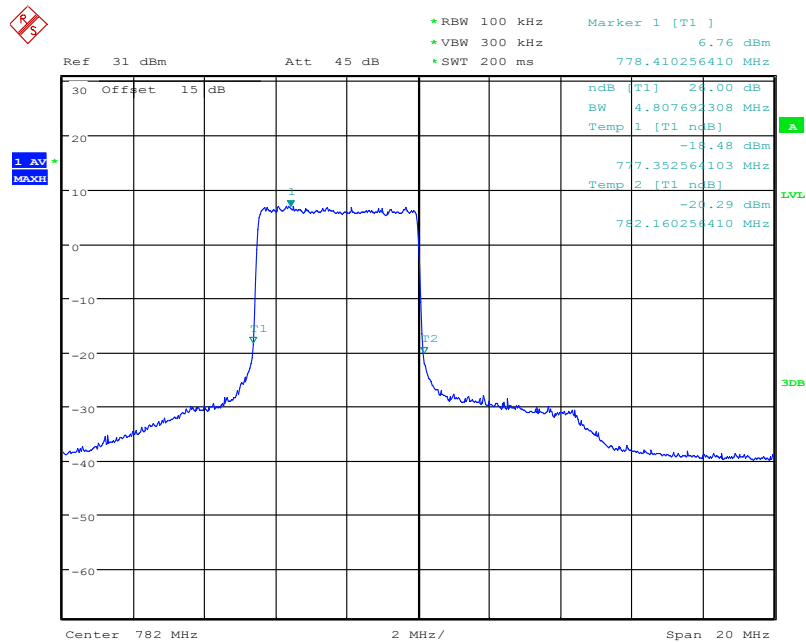
LTE Band13 QPSK -26dBc Channel 23230 BW=10MHz RB=50 RB Offset=0

Report No.:B19W50598-WWAN_Rev1



Date: 25.FEB.2020 16:05:12

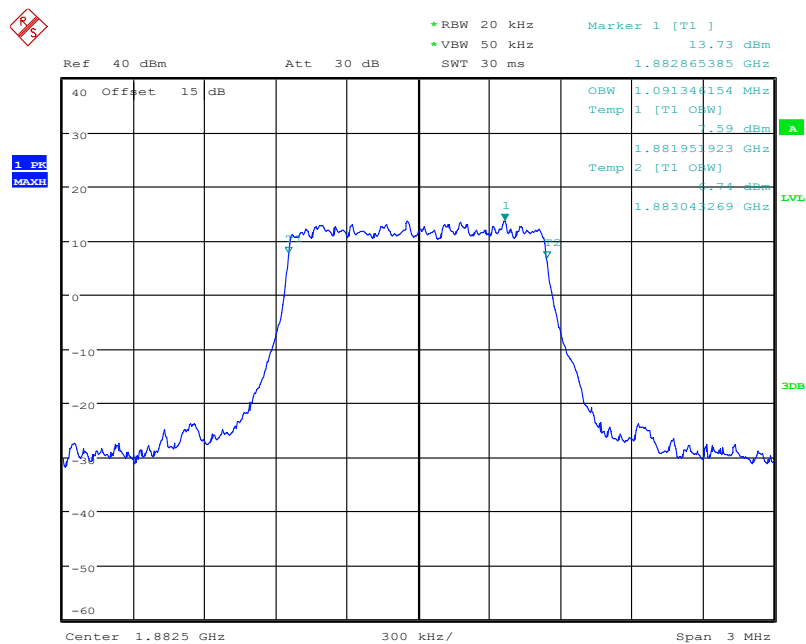
LTE Band13 16QAM -99% Channel 23230 BW=10MHz RB=25 RB Offset=0



Date: 25.FEB.2020 16:05:38

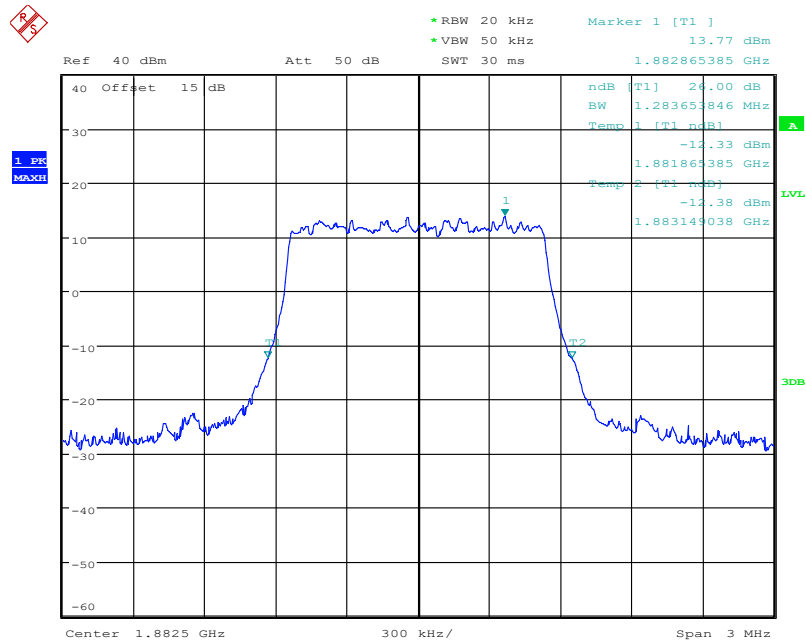
LTE Band13 16QAM -26dBc Channel 23230 BW=10MHz RB=25 RB Offset=0

Graphical results for LTE B25:



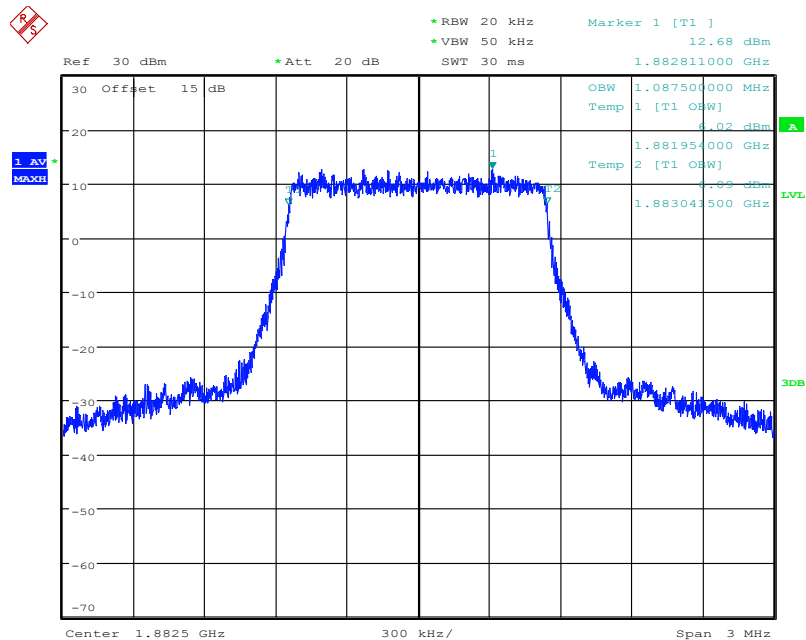
Date: 21.FEB.2020 06:59:17

LTE Band25 QPSK 99% Channel 26365 BW=1.4MHz RB=6 RB Offset=0



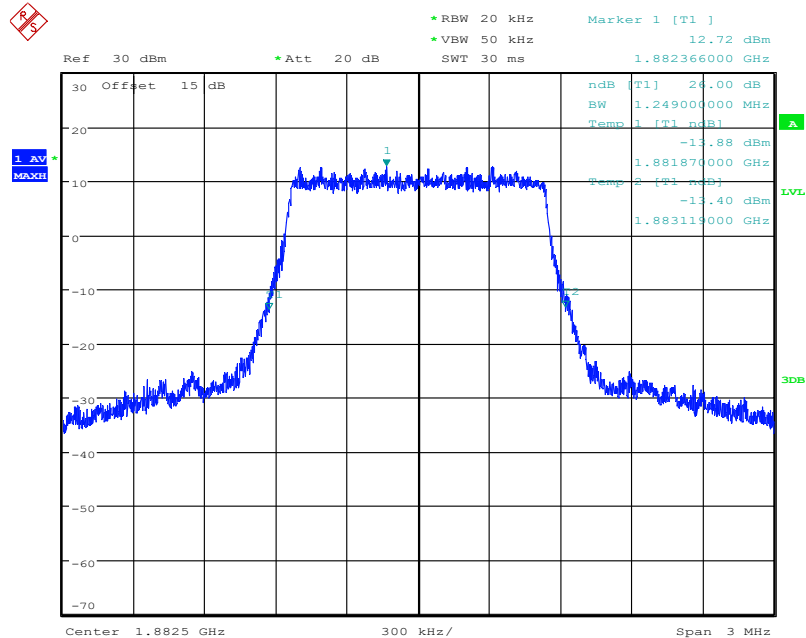
Date: 21.FEB.2020 06:59:49

LTE Band25 QPSK -26dBc Channel 26365 BW=1.4MHz RB=6 RB Offset=0



Date: 23.FEB.2020 04:46:10

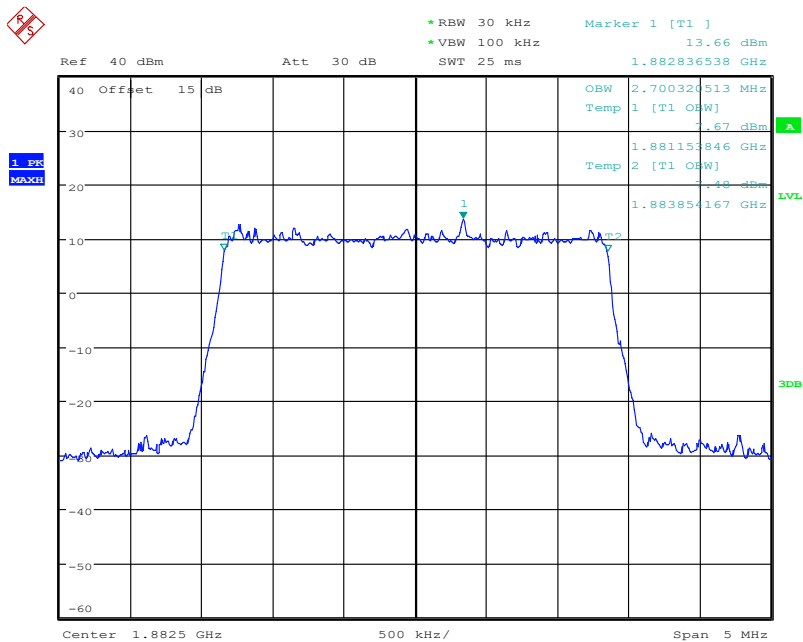
LTE Band25 16QAM 99% Channel 26365 BW=1.4MHz RB=6 RB Offset=0



Date: 23.FEB.2020 04:45:42

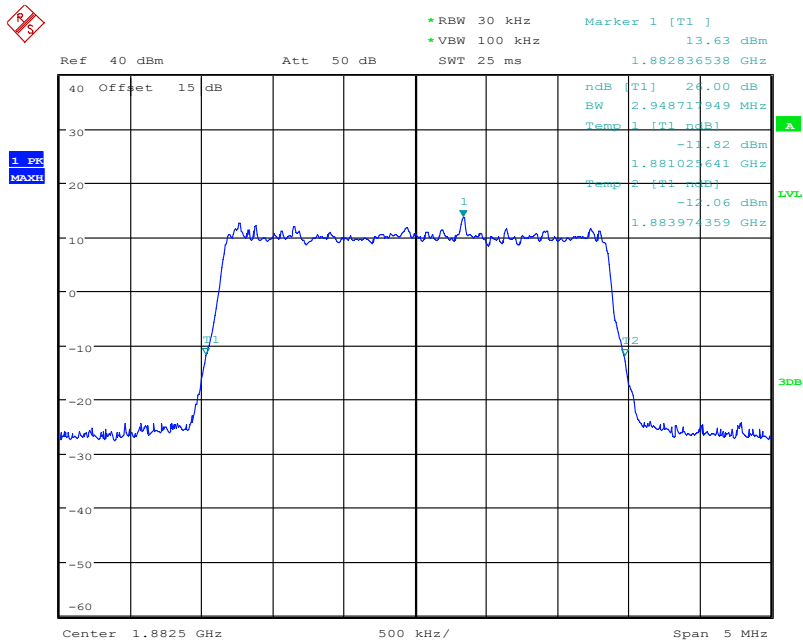
LTE Band25 16QAM -26dBc Channel 26365 BW=1.4MHz RB=6 RB Offset=0

Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777



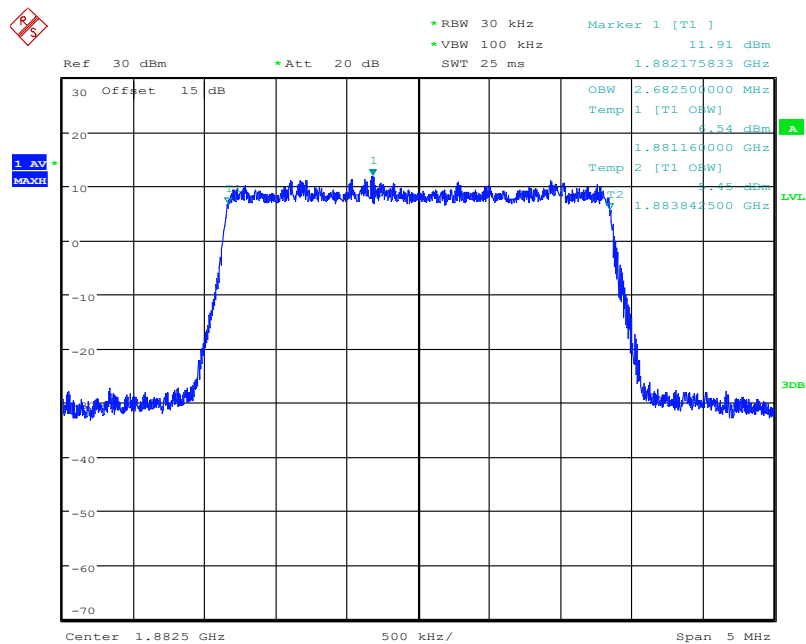
Date: 21.FEB.2020 07:01:50

LTE Band25 QPSK 99% Channel 26365 BW=3MHz RB=15 RB Offset=0



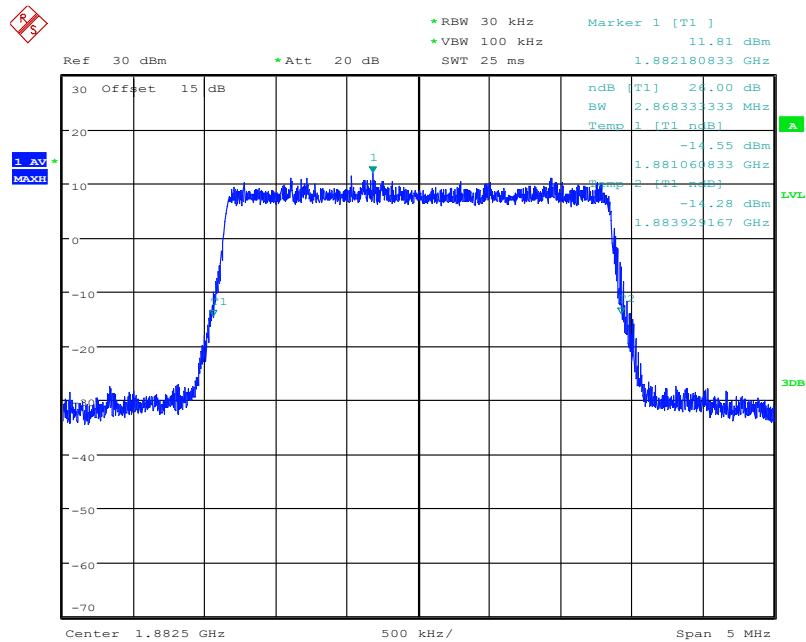
Date: 21.FEB.2020 07:01:18

LTE Band25 QPSK -26dBc Channel 26365 BW=3MHz RB=15 RB Offset=0



Date: 23.FEB.2020 04:47:59

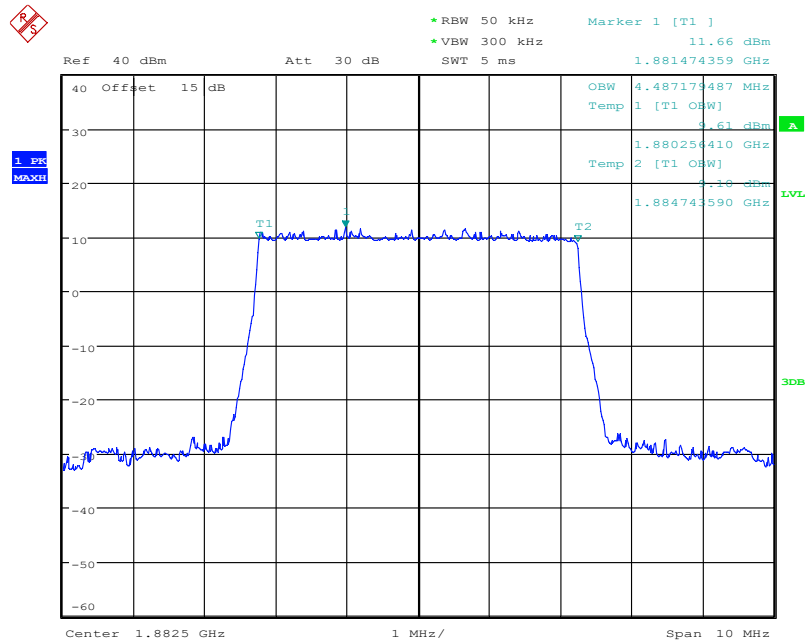
LTE Band25 16QAM 99% Channel 26365 BW=3MHz RB=15 RB Offset=0



Date: 23.FEB.2020 04:48:36

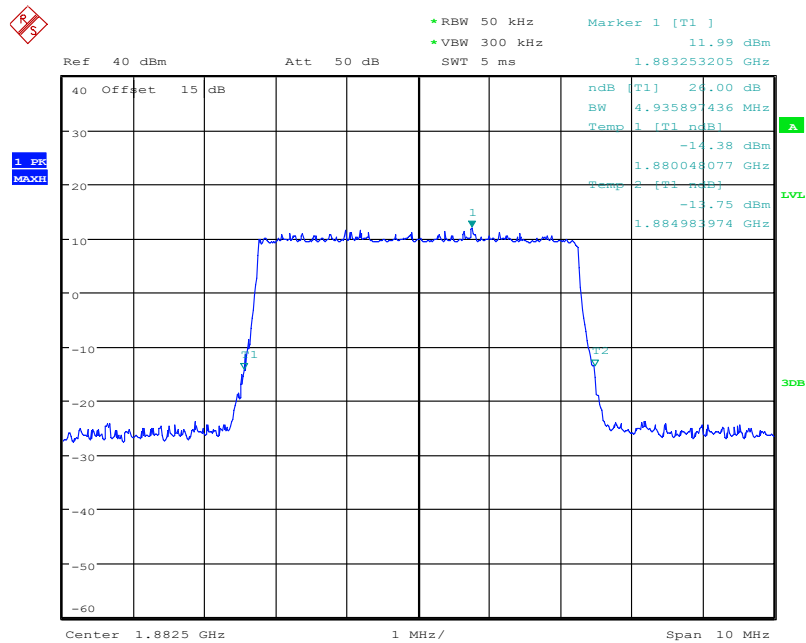
LTE Band25 16QAM -26dBc Channel 26365 BW=3MHz RB=15 RB Offset=0

Report No.:B19W50598-WWAN_Rev1



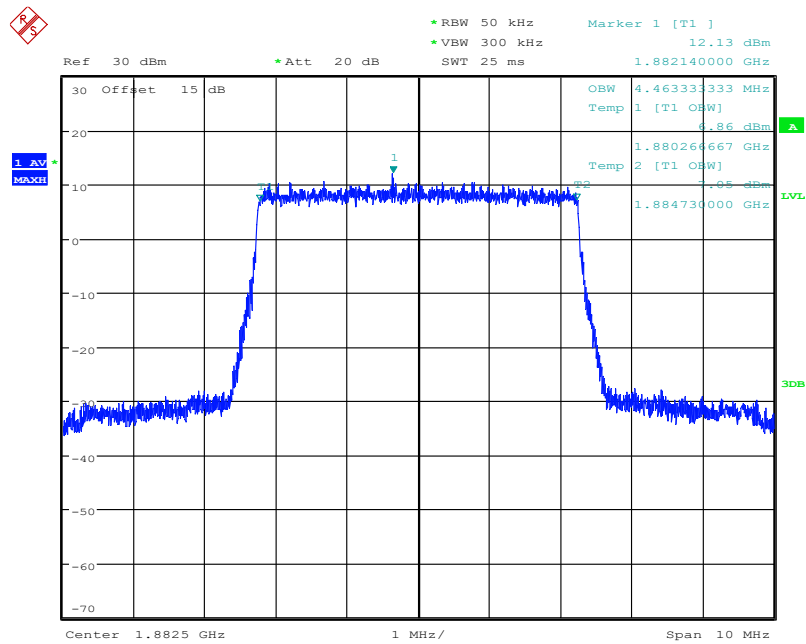
Date: 21.FEB.2020 07:02:48

LTE Band25 QPSK 99% Channel 26365 BW=5MHz RB=25 RB Offset=0



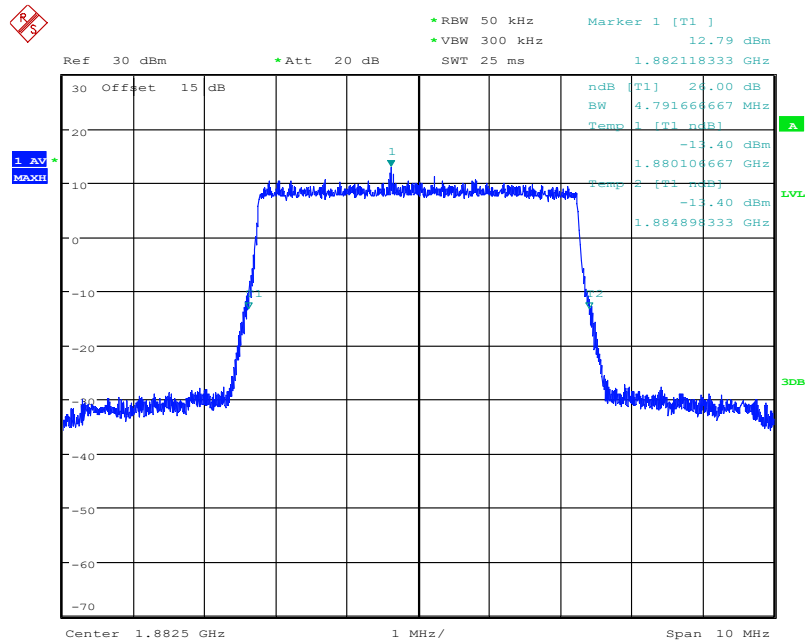
Date: 21.FEB.2020 07:03:10

LTE Band25 QPSK -26dBc Channel 26365 BW=5MHz RB=25 RB Offset=0



Date: 23.FEB.2020 04:50:30

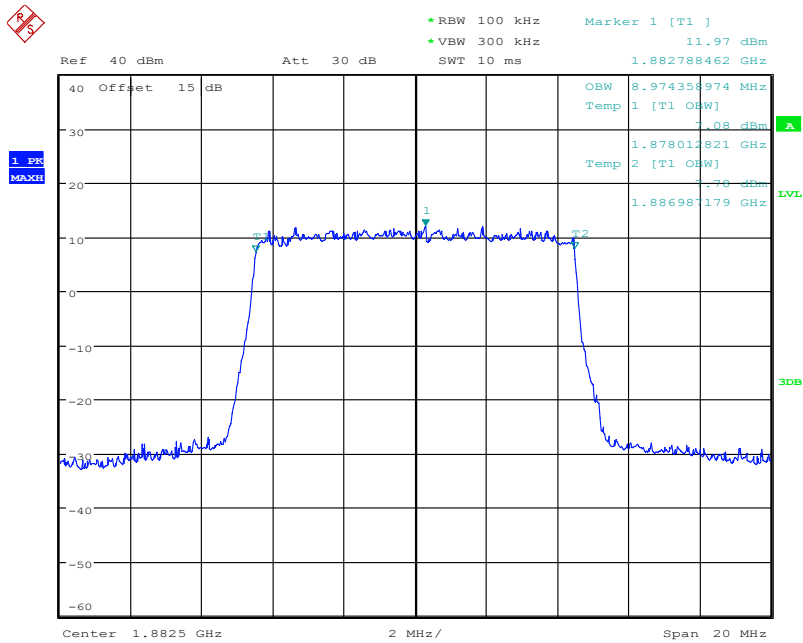
LTE Band25 16QAM 99% Channel 26365 BW=5MHz RB=25 RB Offset=0



Date: 23.FEB.2020 04:50:04

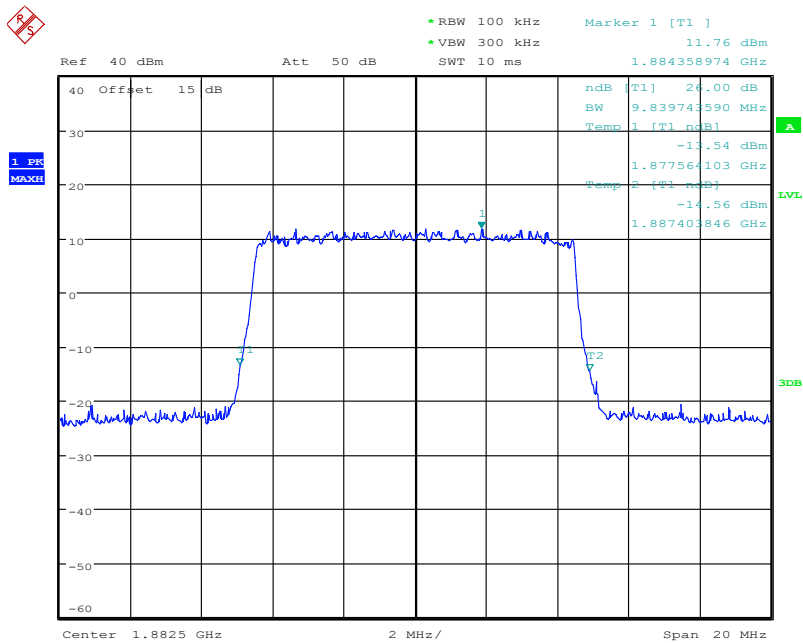
LTE Band25 16QAM -26dBc Channel 26365 BW=5MHz RB=25 RB Offset=0

Report No.:B19W50598-WWAN_Rev1



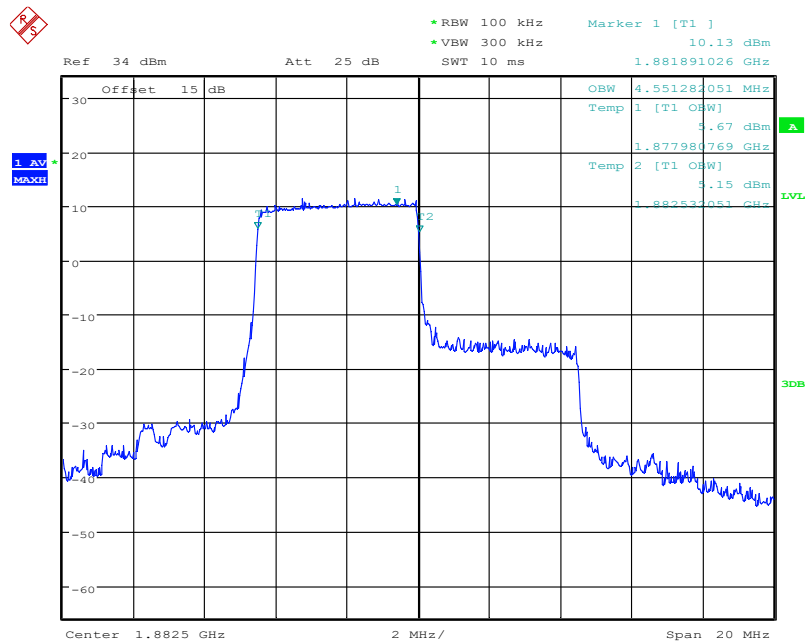
Date: 21.FEB.2020 07:04:40

LTE Band25 QPSK 99% Channel 26365 BW=10MHz RB=50 RB Offset=0



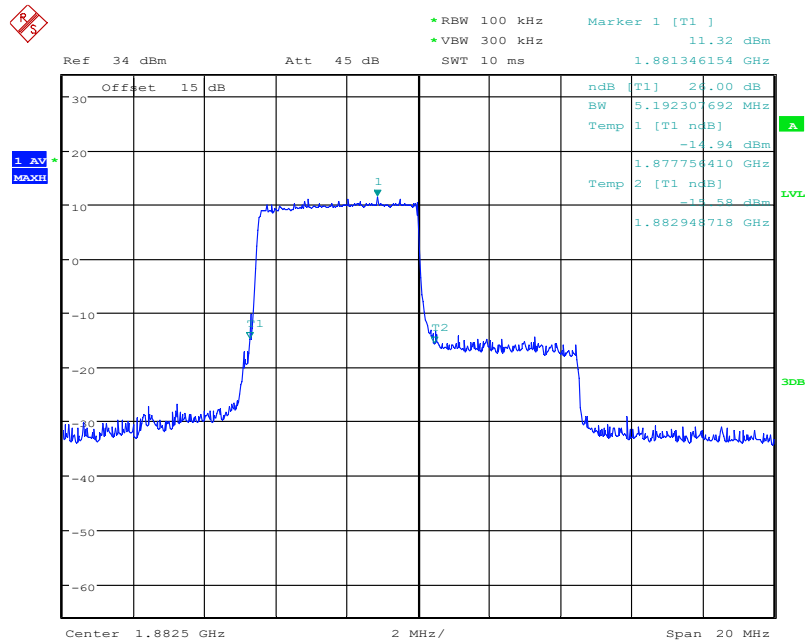
Date: 21.FEB.2020 07:04:14

LTE Band25 QPSK -26dBc Channel 26365 BW=10MHz RB=50 RB Offset=0



Date: 25.FEB.2020 16:10:33

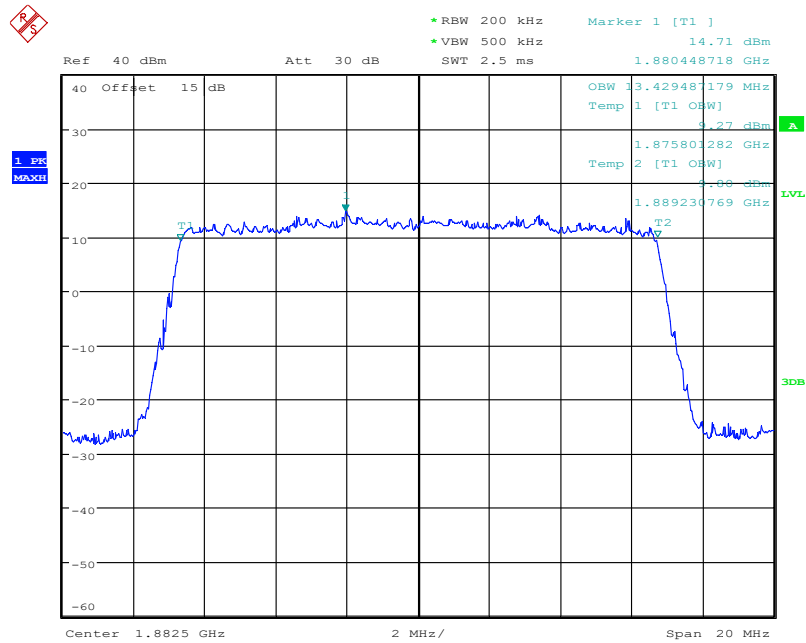
LTE Band2 16QAM 99% Channel 26365 BW=10MHz RB=25 RB Offset=0



Date: 25.FEB.2020 16:11:24

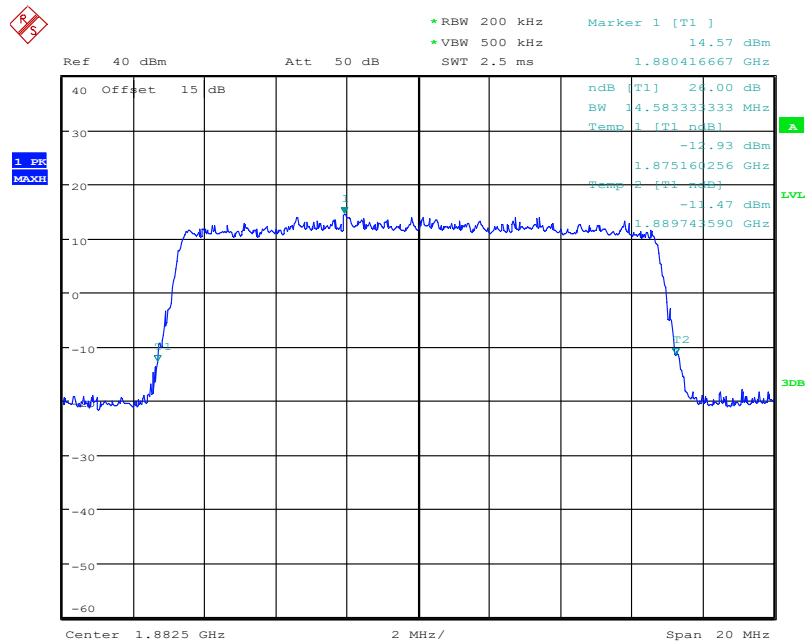
LTE Band2 16QAM -26dBc Channel 26365 BW=10MHz RB=25 RB Offset=0

Report No.:B19W50598-WWAN_Rev1



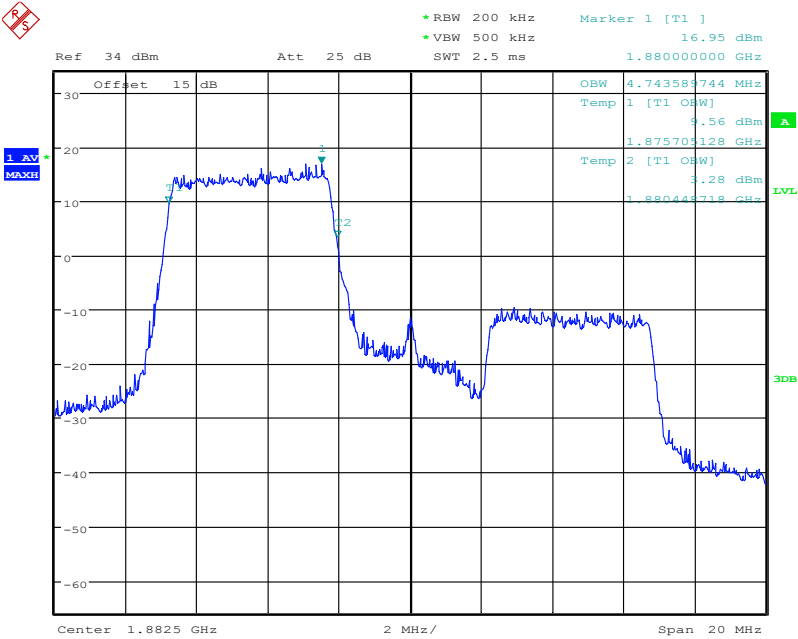
Date: 21.FEB.2020 07:05:43

LTE Band25 QPSK 99% Channel 26365 BW=15MHz RB=75 RB Offset=0



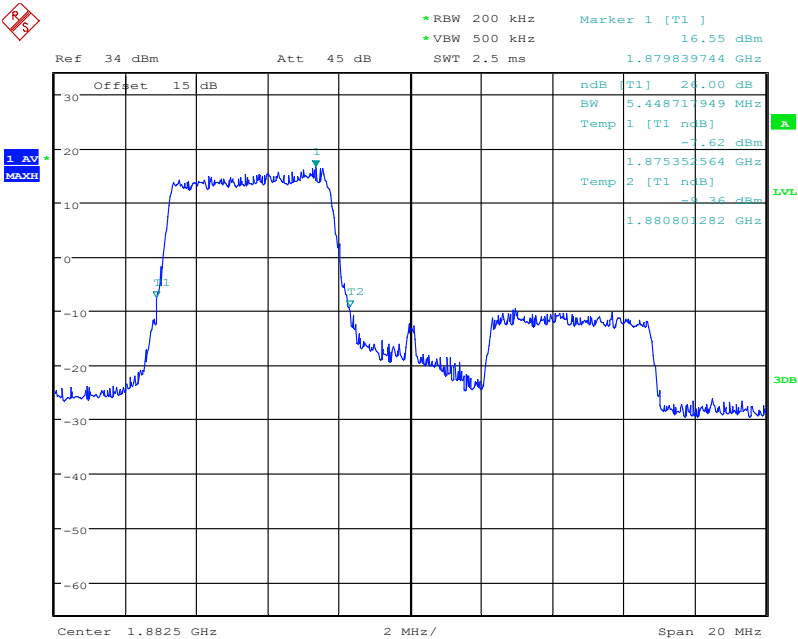
Date: 21.FEB.2020 07:06:03

LTE Band25 QPSK -26dBc Channel 26365 BW=15MHz RB=75 RB Offset=0



Date: 25.FEB.2020 16:13:17

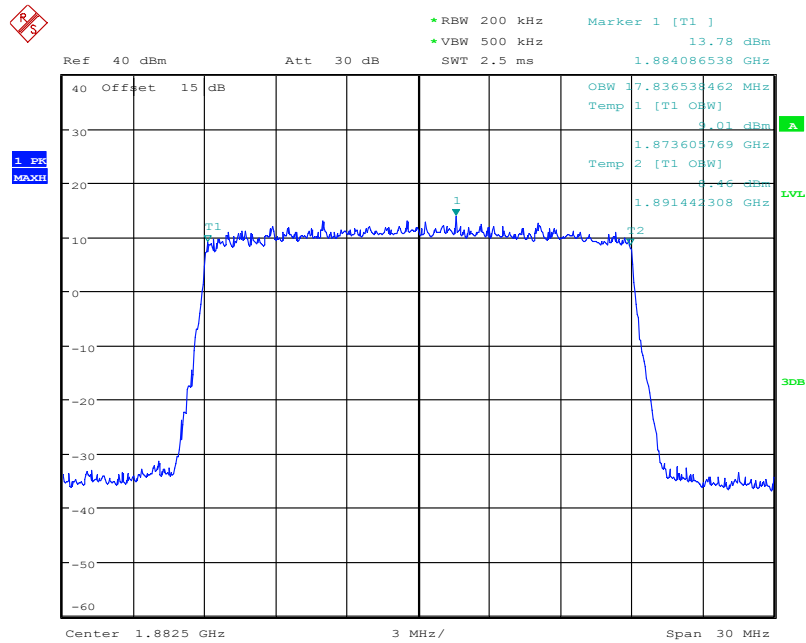
LTE Band25 16QAM 99% Channel 26365 BW=15MHz RB=25 RB Offset=0



Date: 25.FEB.2020 16:12:42

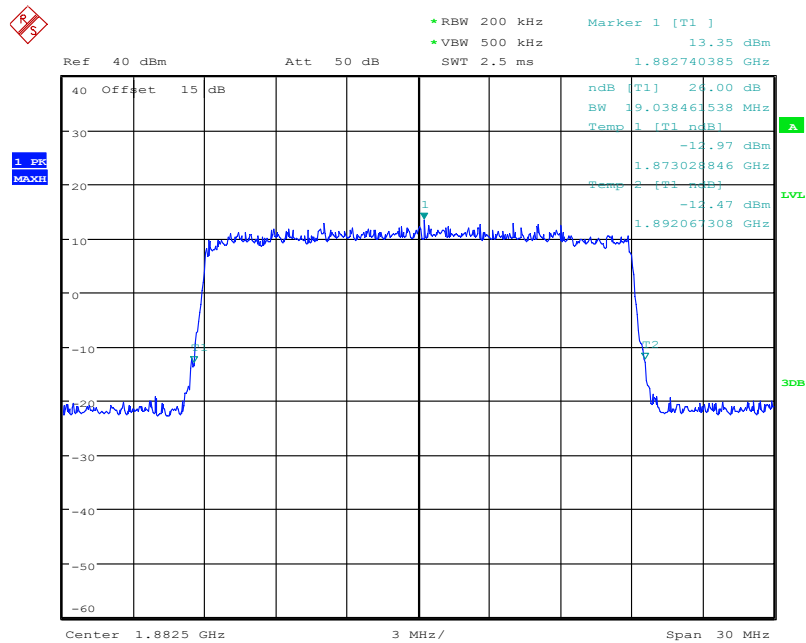
LTE Band25 16QAM -26dBc Channel 26365 BW=15MHz RB=25 RB Offset=0

Report No.:B19W50598-WWAN_Rev1



Date: 21.FEB.2020 07:07:35

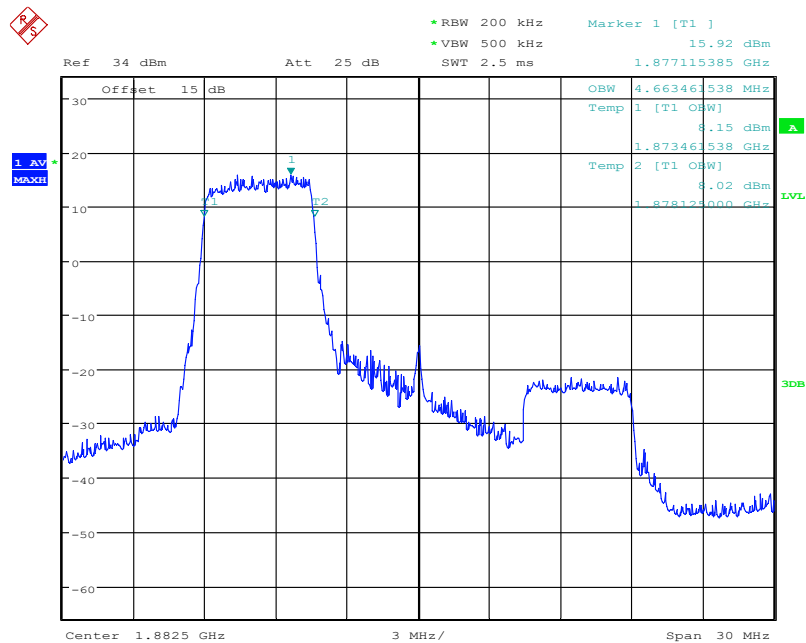
LTE Band25 QPSK 99% Channel 26365 BW=20MHz RB=100 RB Offset=0



Date: 21.FEB.2020 07:07:09

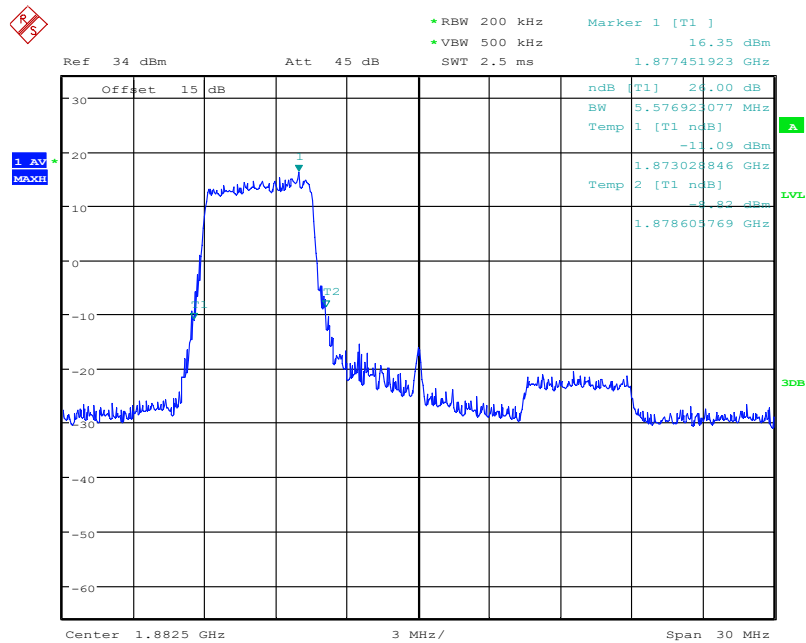
LTE Band25 QPSK -26dBc Channel 26365 BW=20MHz RB=100 RB Offset=0

Report No.:B19W50598-WWAN_Rev1



Date: 25.FEB.2020 16:14:36

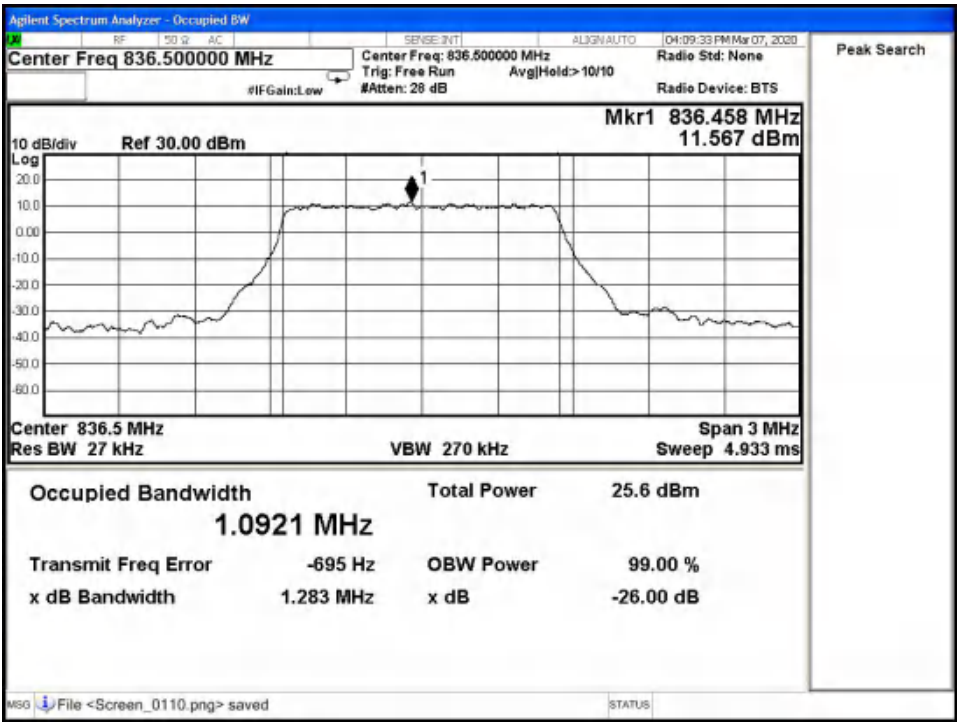
LTE Band25 16QAM 99% Channel 26365 BW=20MHz RB=25 RB Offset=0



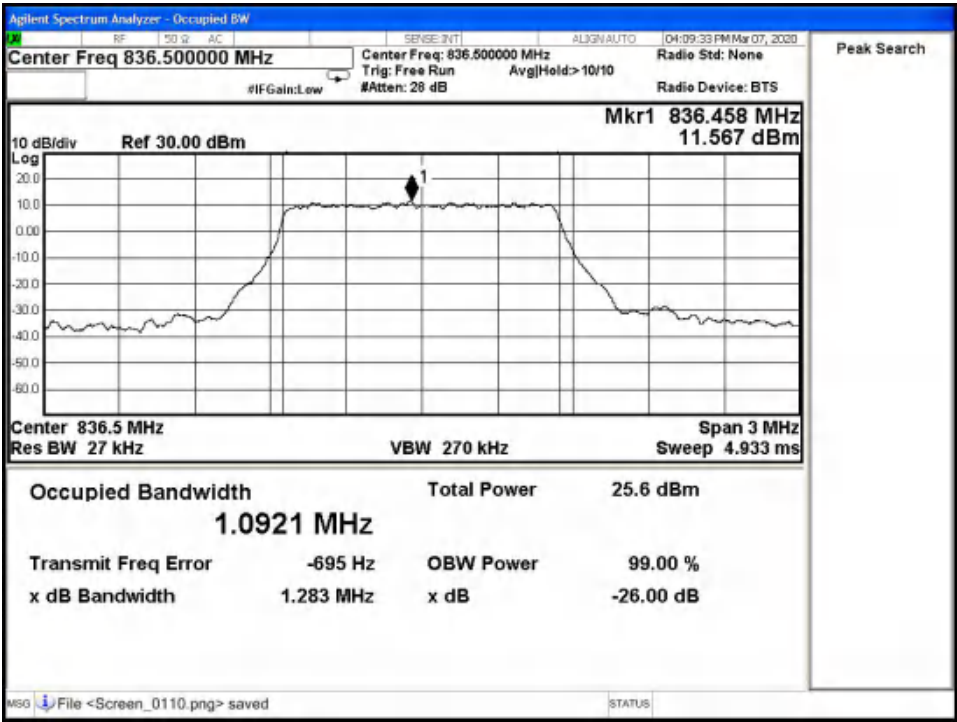
Date: 25.FEB.2020 16:15:02

LTE Band25 16QAM -26dBc Channel 26365 BW=20MHz RB=25 RB Offset=0

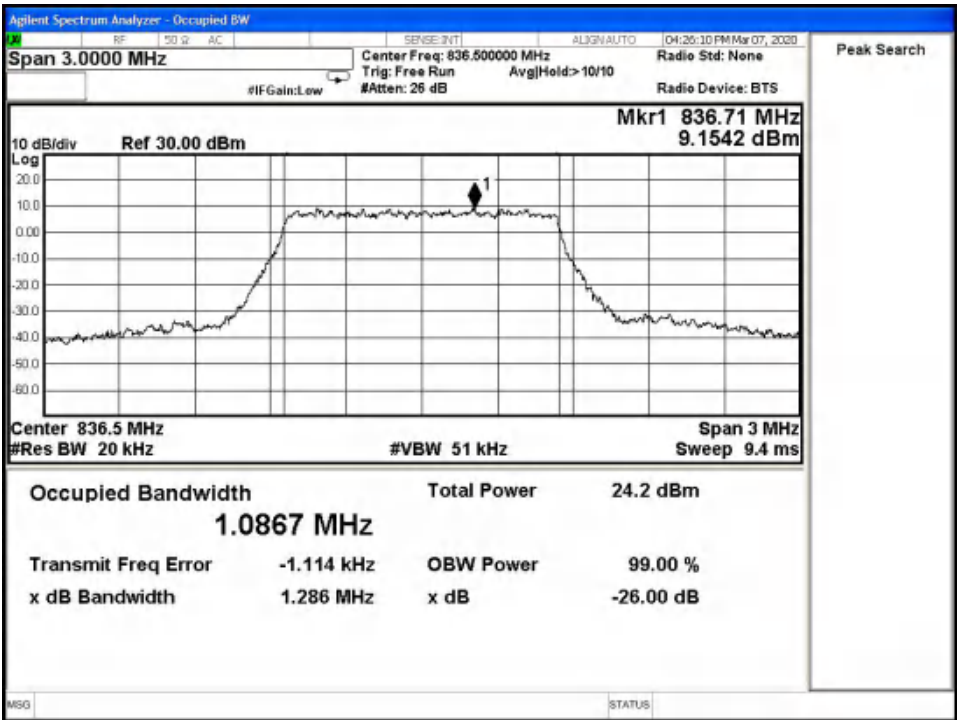
Graphical results for LTE B26:



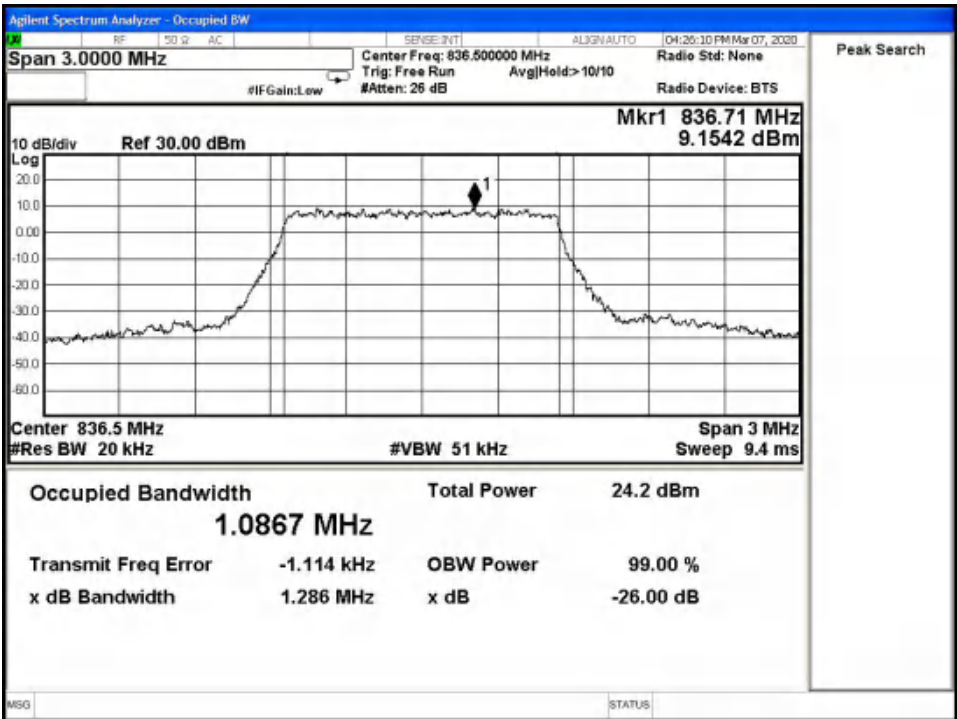
LTE Band26 QPSK 99% Channel 26915 BW=1.4MHz RB=6 RB Offset=0



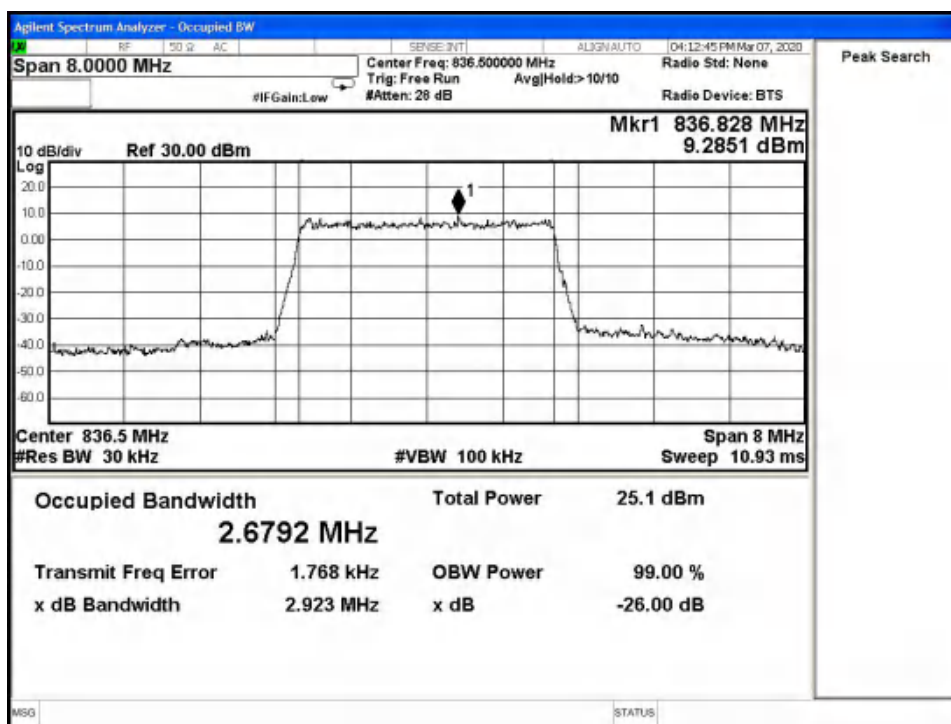
LTE Band26 QPSK -26dBc Channel 26915 BW=1.4MHz RB=6 RB Offset=0



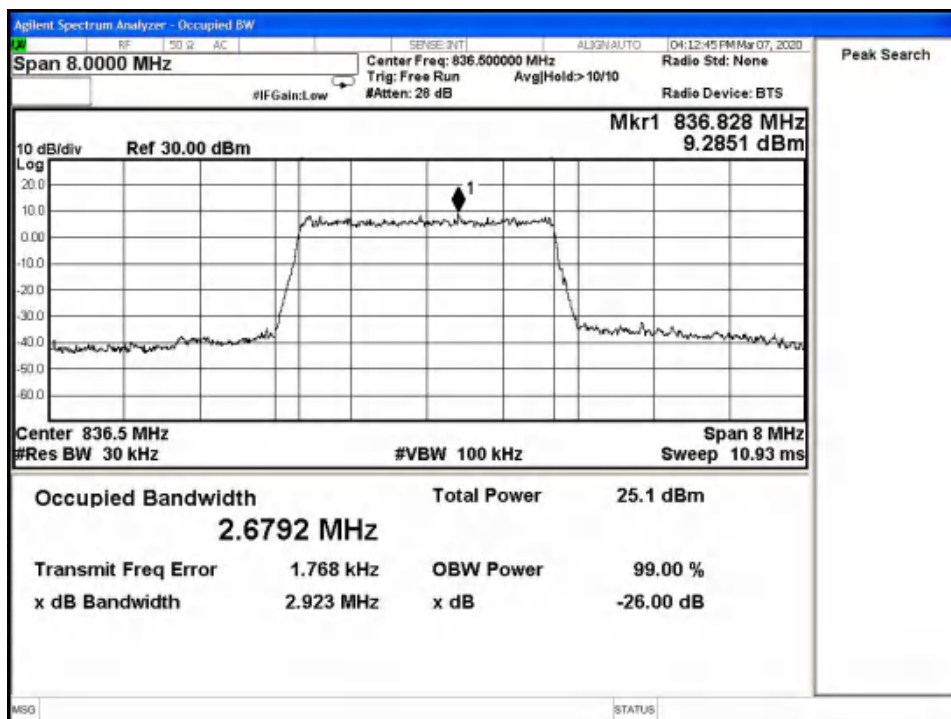
LTE Band26 16QAM 99% Channel 26915 BW=1.4MHz RB=6 RB Offset=0



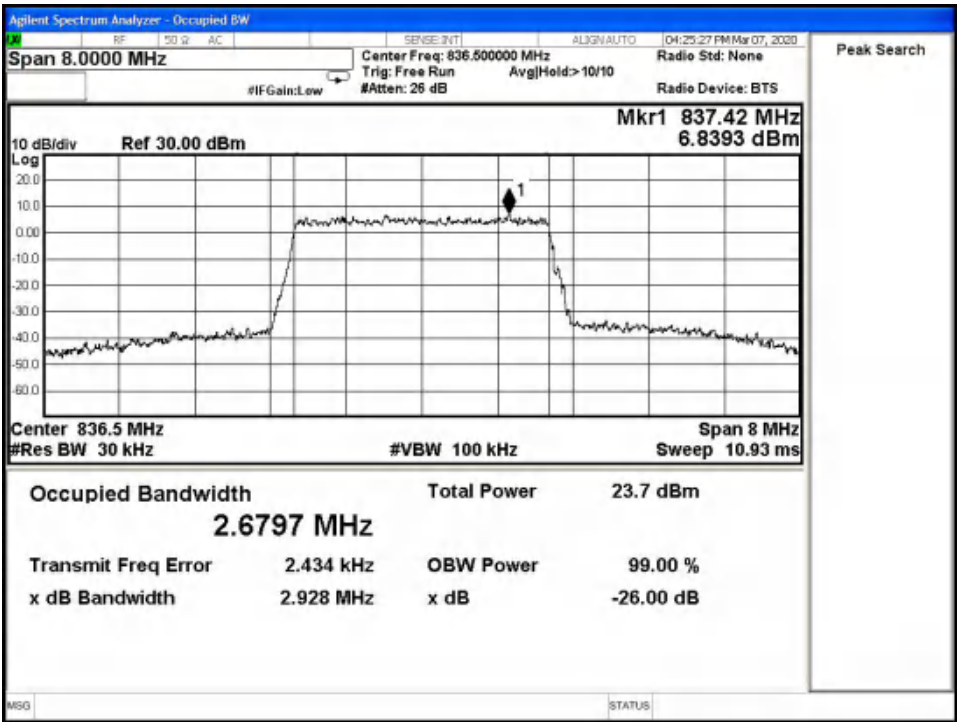
LTE Band26 16QAM -26dBc Channel 26915 BW=1.4MHz RB=6 RB Offset=0



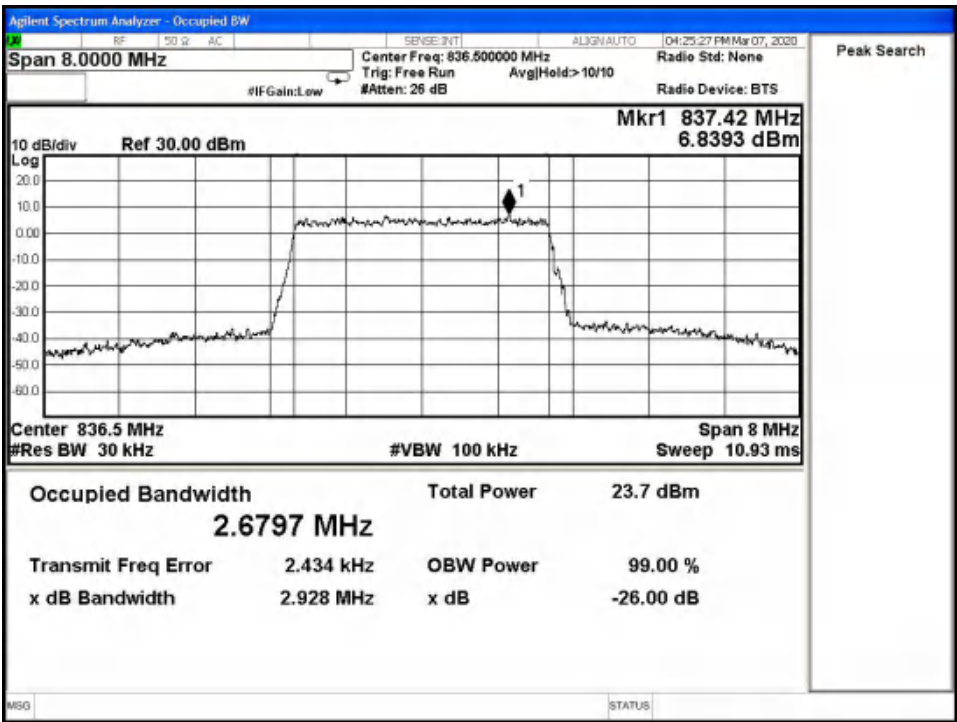
LTE Band26 QPSK 99% Channel 26915 BW=3MHz RB=15 RB Offset=0



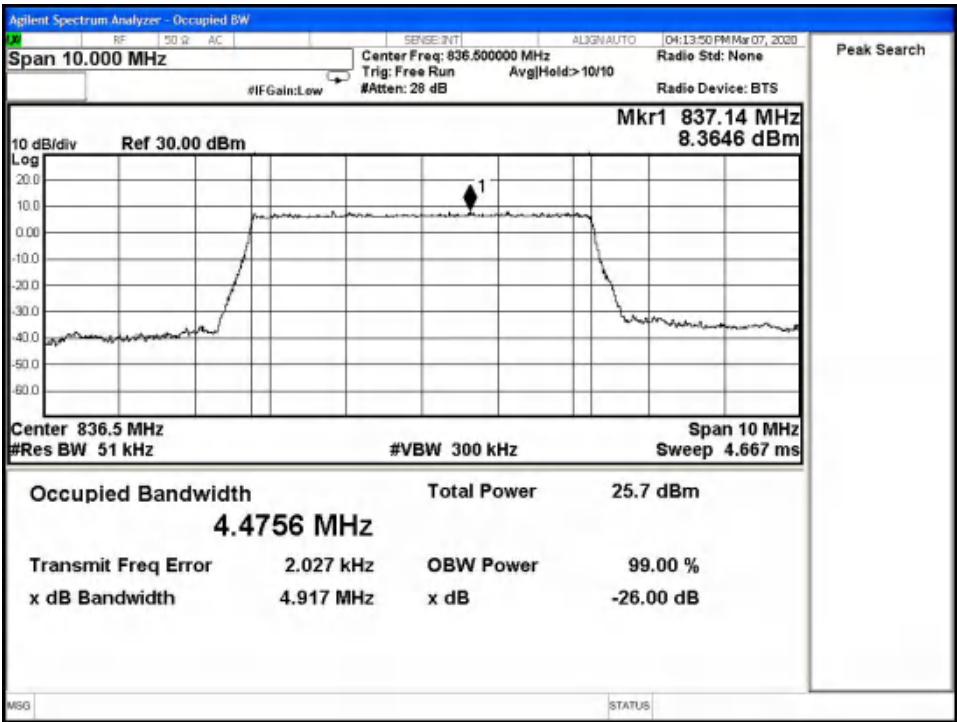
LTE Band26 QPSK -26dBc Channel 26915 BW=3MHz RB=15 RB Offset=0



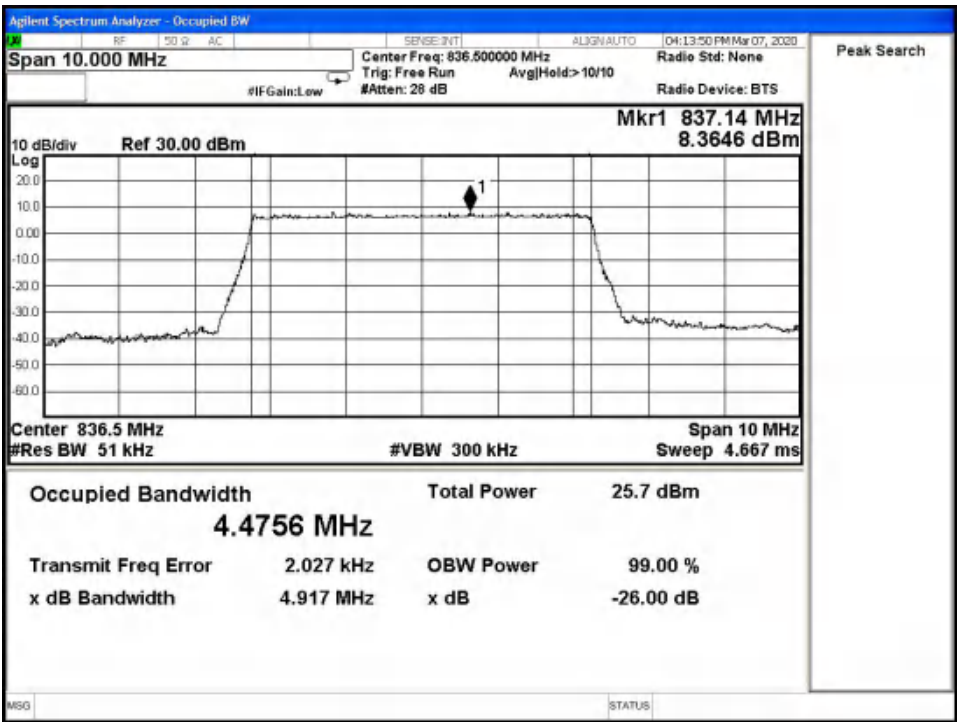
LTE Band26 16QAM 99% Channel 26915 BW=3MHz RB=15 RB Offset=0



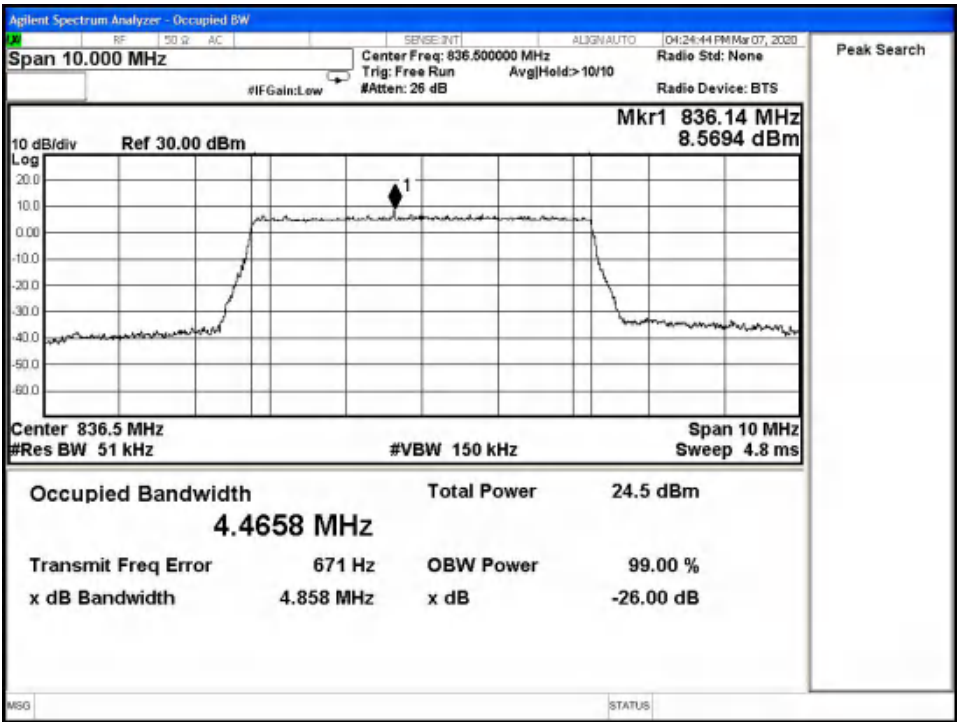
LTE Band26 16QAM -26dBc Channel 26915 BW=3MHz RB=15 RB Offset=0



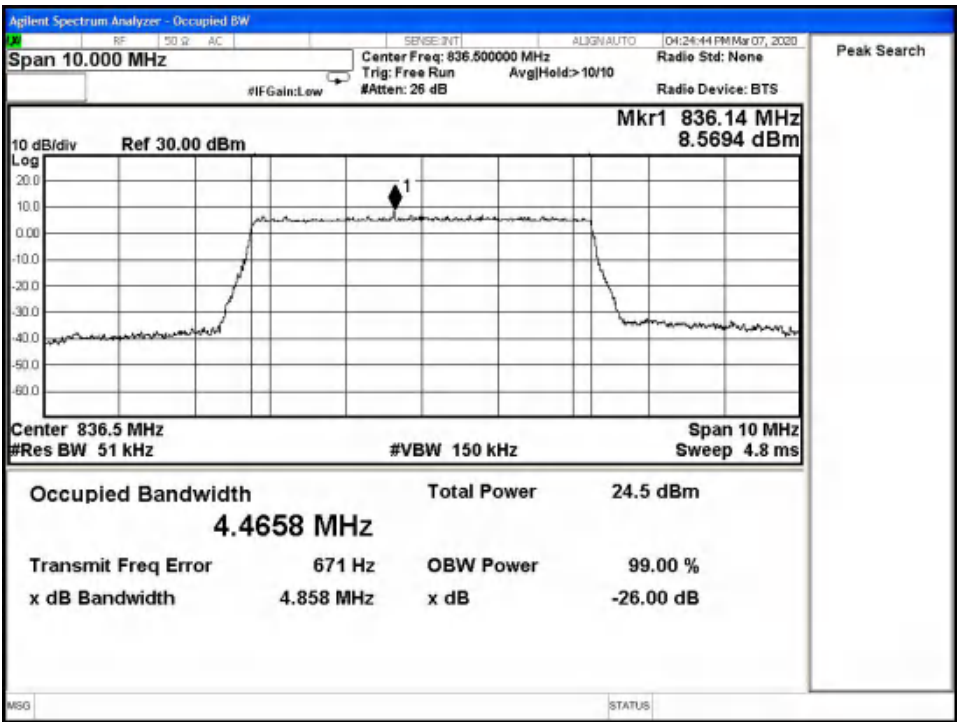
LTE Band26 QPSK 99% Channel 26915 BW=5MHz RB=25 RB Offset=0



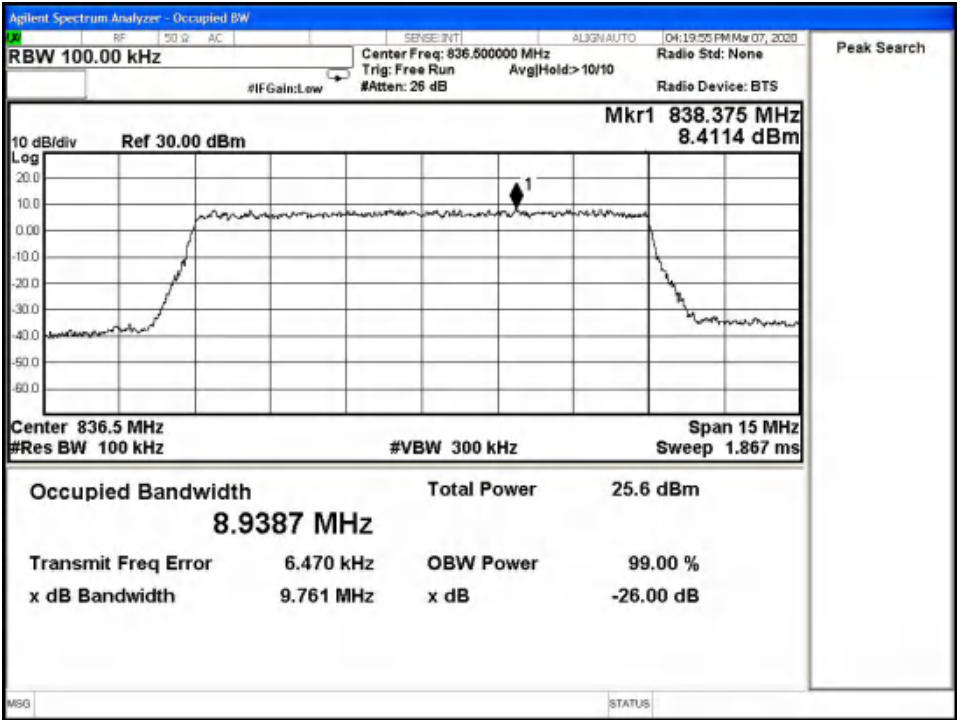
LTE Band26 QPSK -26dBc Channel 26915 BW=5MHz RB=25 RB Offset=0



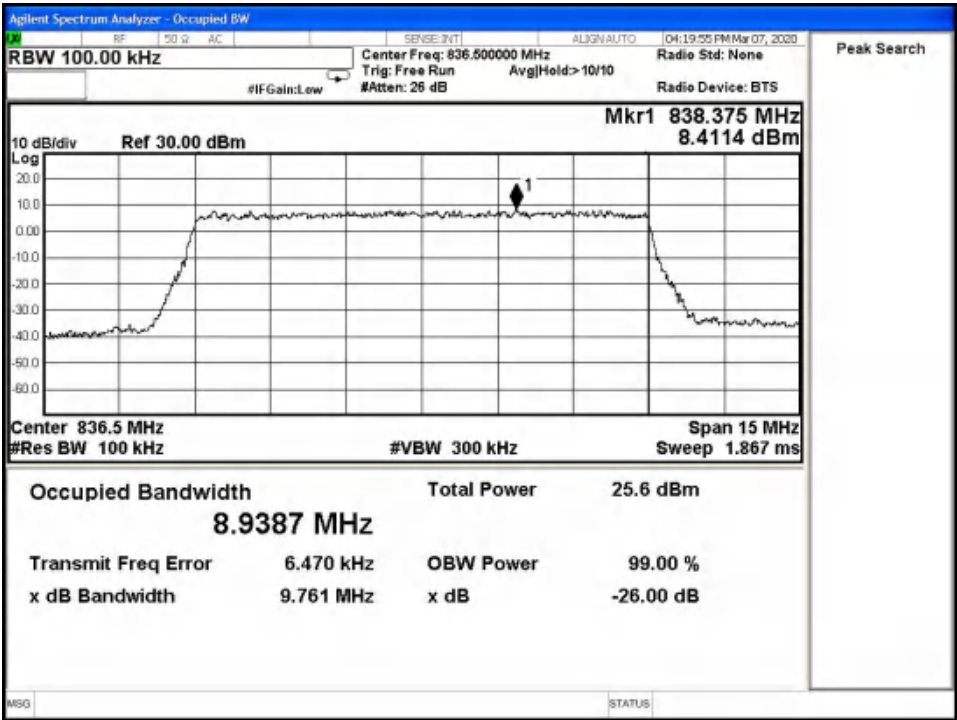
LTE Band26 16QAM 99% Channel 26915 BW=5MHz RB=25 RB Offset=0



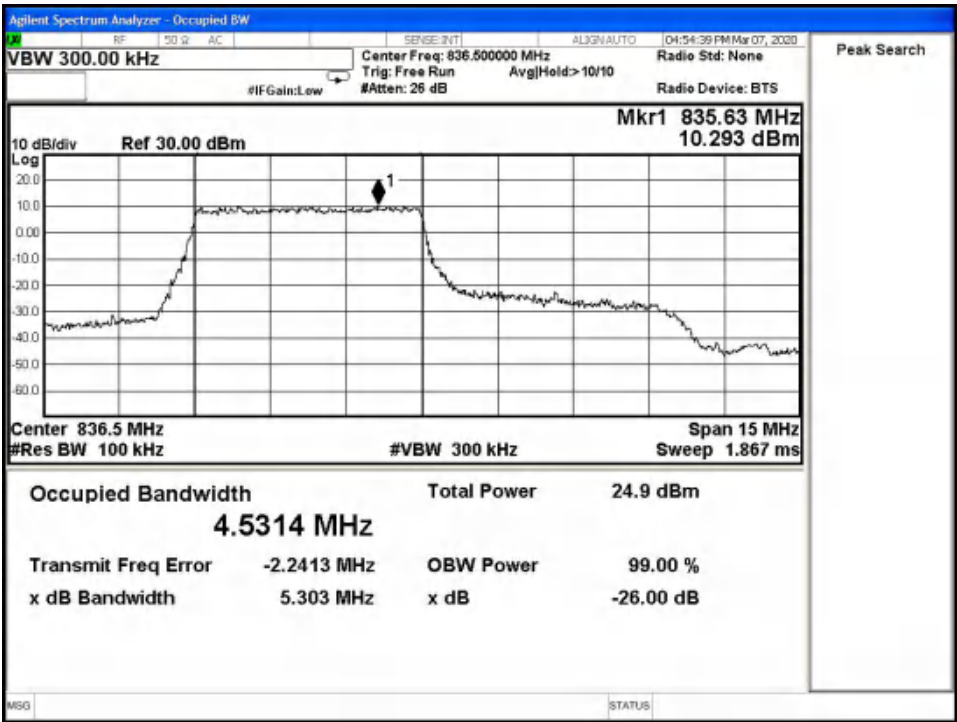
LTE Band26 16QAM -26dBc Channel 26915 BW=5MHz RB=25 RB Offset=0



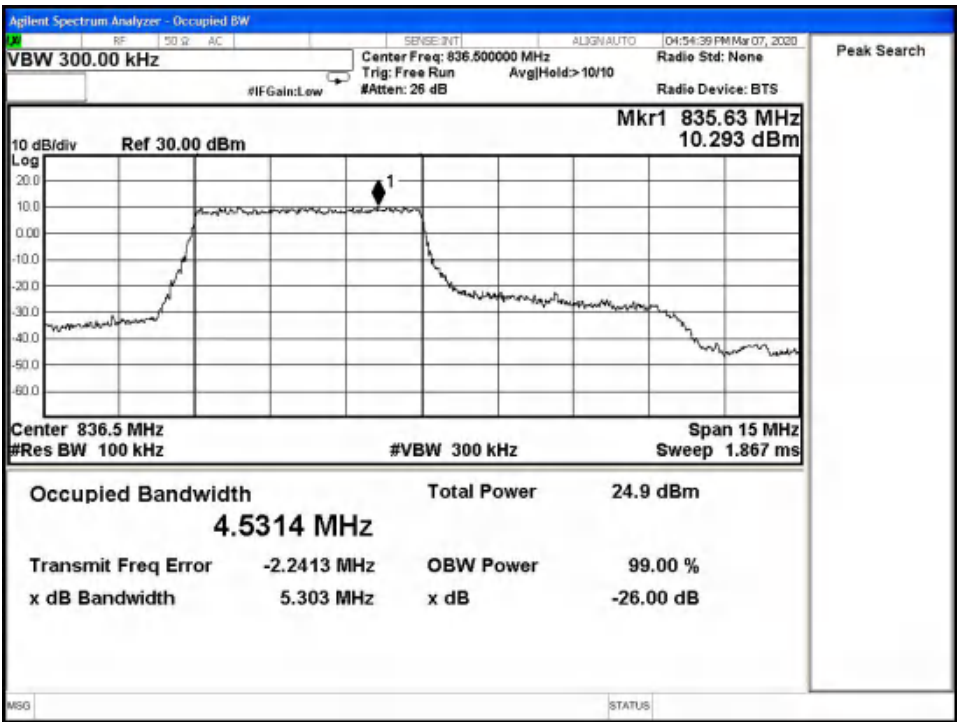
LTE Band26 QPSK 99% Channel 26915 BW=10MHz RB=50 RB Offset=0



LTE Band26 QPSK -26dBc Channel 26915 BW=10MHz RB=50 RB Offset=0

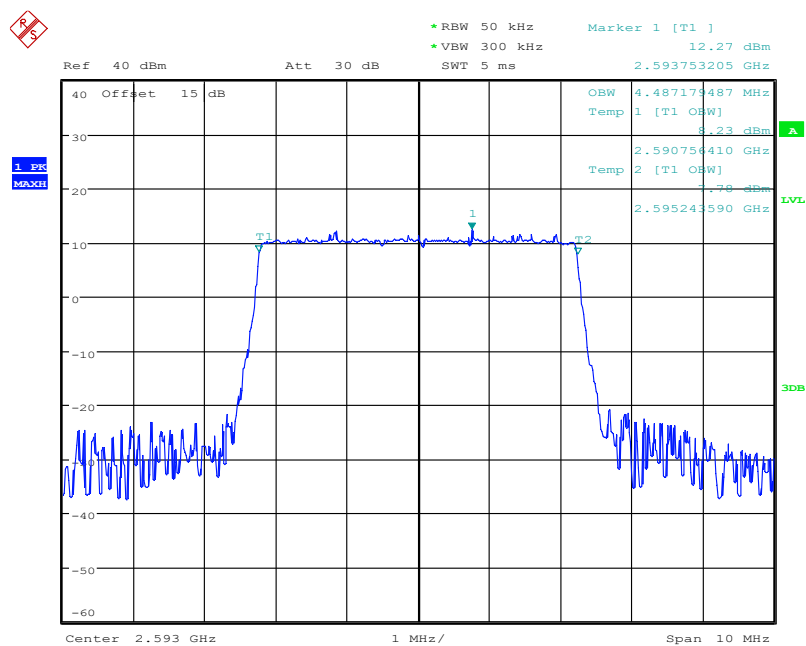


LTE Band26 16QAM 99% Channel 26915 BW=10MHz RB=25 RB Offset=0



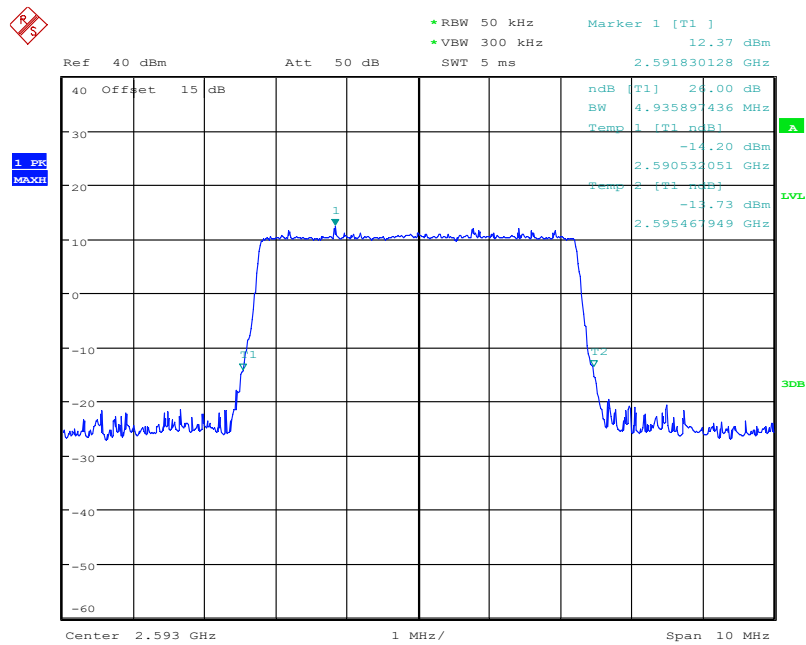
LTE Band26 16QAM -26dBc Channel 26915 BW=10MHz RB=25 RB Offset=0

Graphical results for LTE B41:



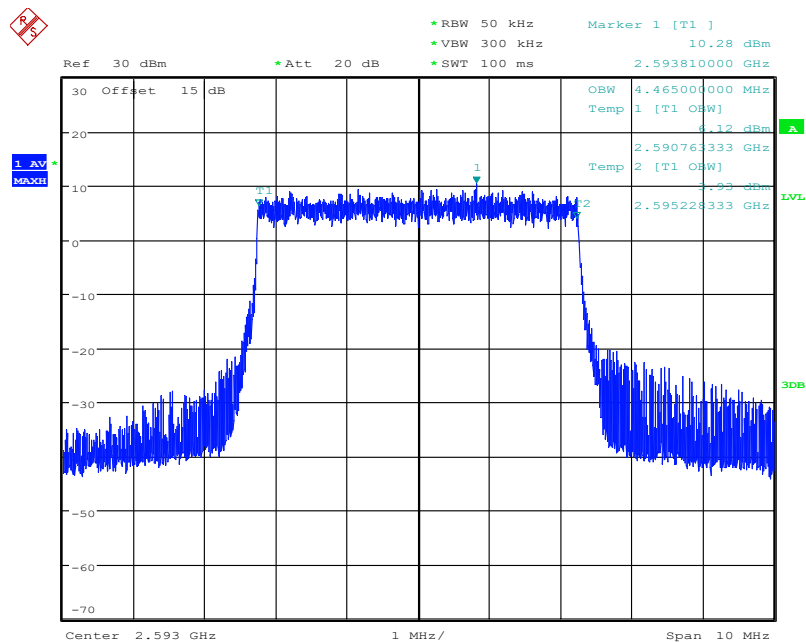
Date: 21.FEB.2020 07:47:22

LTE Band41 QPSK 99% Channel 40620 BW=5MHz RB=25 RB Offset=0



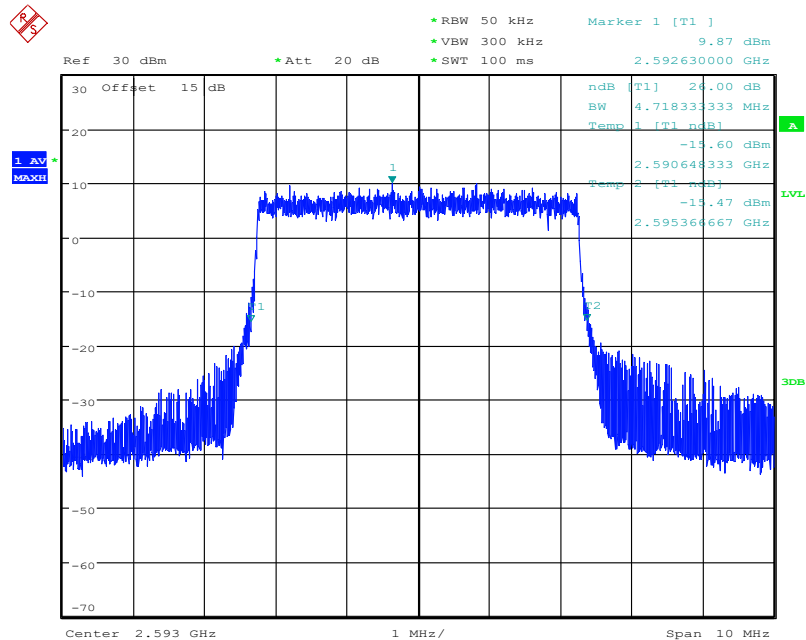
Date: 21.FEB.2020 07:47:00

LTE Band41 QPSK -26dBc Channel 40620 BW=5MHz RB=25 RB Offset=0



Date: 23.FEB.2020 05:31:56

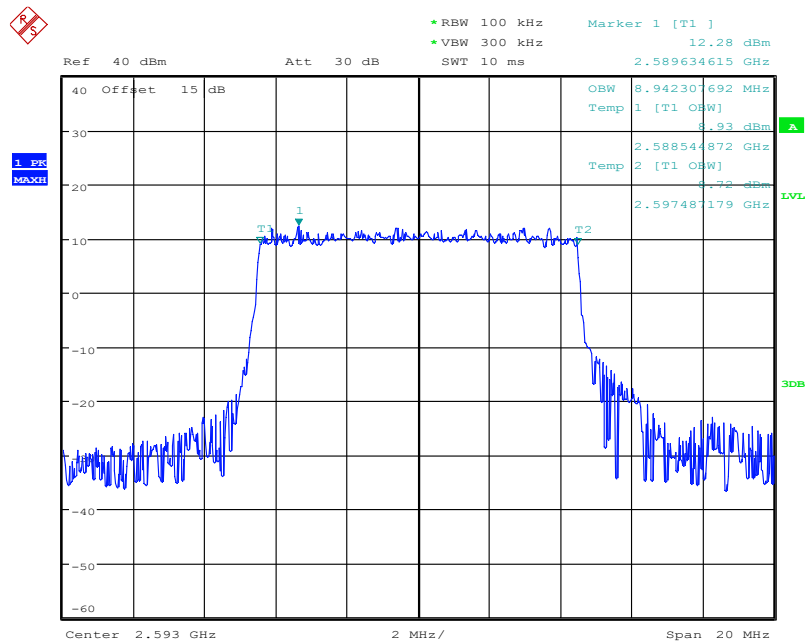
LTE Band41 16QAM 99% Channel 40620 BW=5MHz RB=25 RB Offset=0



Date: 23.FEB.2020 05:32:32

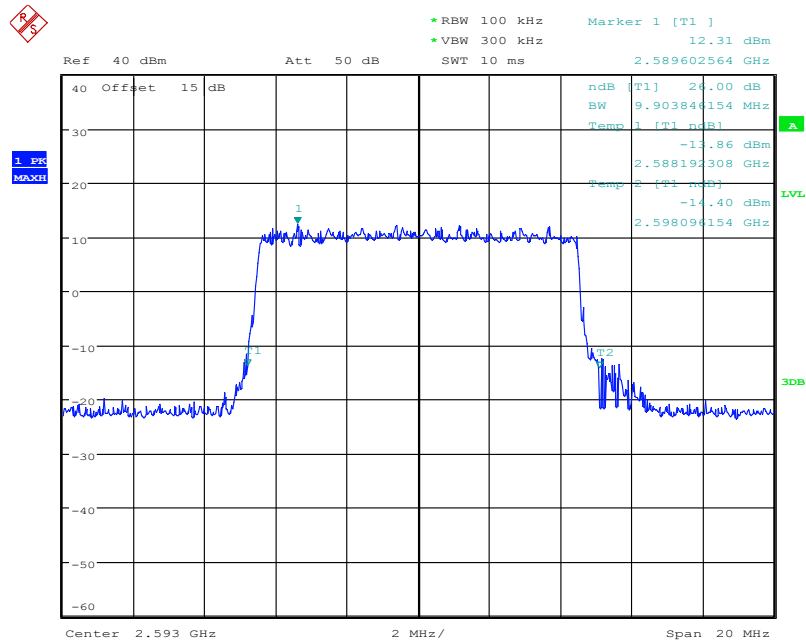
LTE Band41 16QAM -26dBc Channel 40620 BW=5MHz RB=25 RB Offset=0

Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777



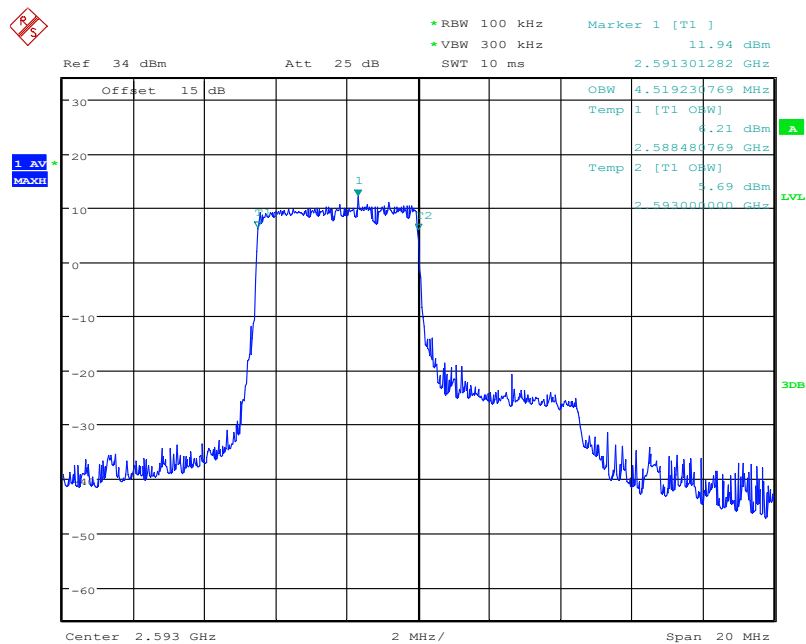
Date: 21.FEB.2020 07:48:11

LTE Band41 QPSK 99% Channel 40620 BW=10MHz RB=50 RB Offset=0



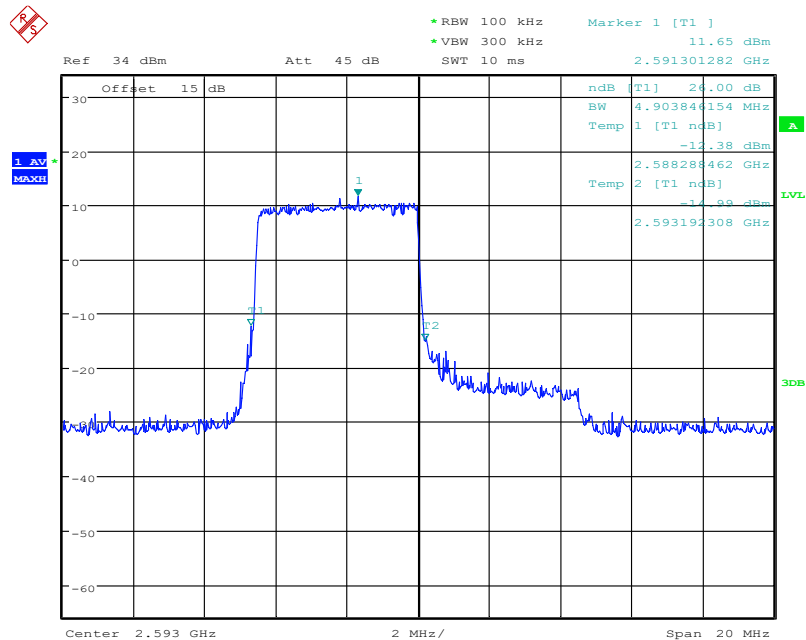
Date: 21.FEB.2020 07:48:41

LTE Band41 QPSK -26dBc Channel 40620 BW=10MHz RB=50 RB Offset=0



Date: 25.FEB.2020 16:34:58

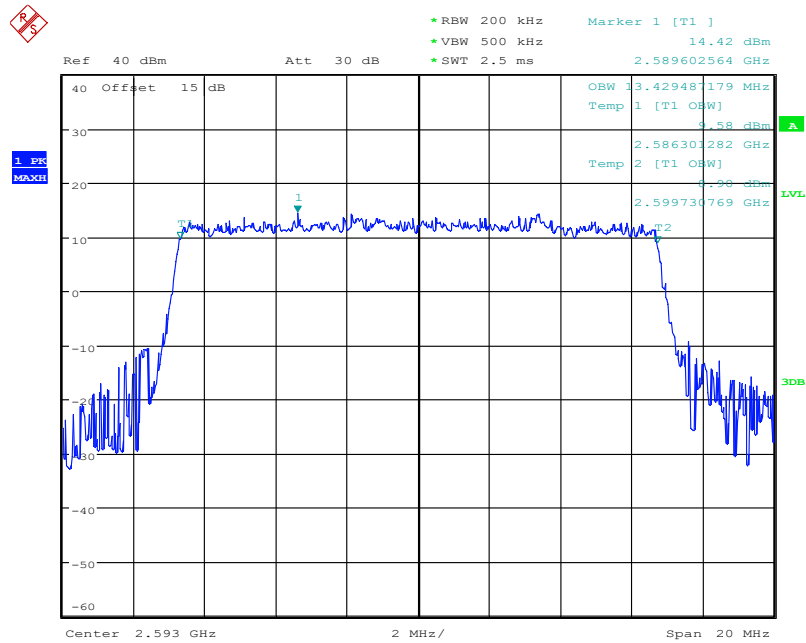
LTE Band41 16QAM 99% Channel 40620 BW=10MHz RB=25 RB Offset=0



Date: 25.FEB.2020 16:34:16

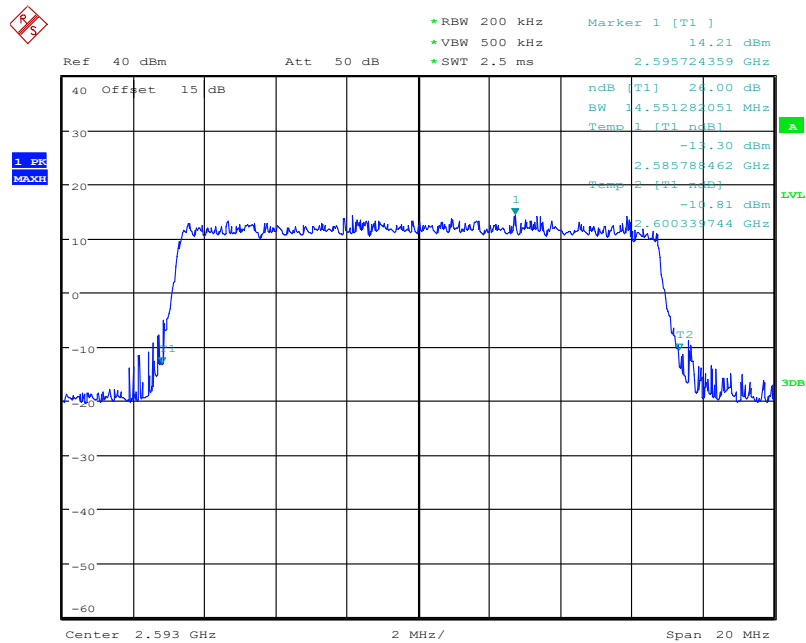
LTE Band41 16QAM -26dBc Channel 40620 BW=10MHz RB=25 RB Offset=0

Report No.:B19W50598-WWAN_Rev1



Date: 21.FEB.2020 07:51:06

LTE Band41 QPSK 99% Channel 40620 BW=15MHz RB=75 RB Offset=0



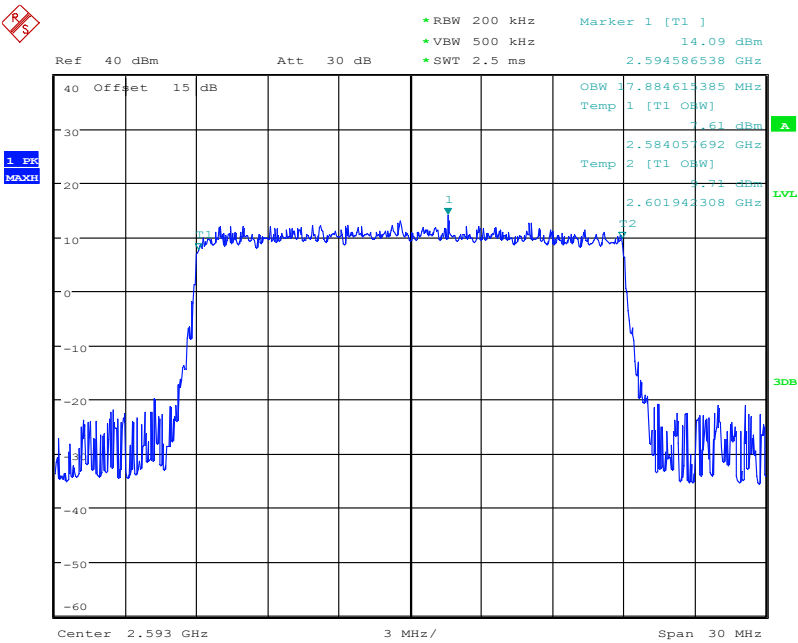
Date: 21.FEB.2020 07:51:34

LTE Band41 QPSK -26dBc Channel 40620 BW=15MHz RB=75 RB Offset=0

LTE Band41 16QAM 99% Channel 40620 BW=15MHz RB=25 RB Offset=0

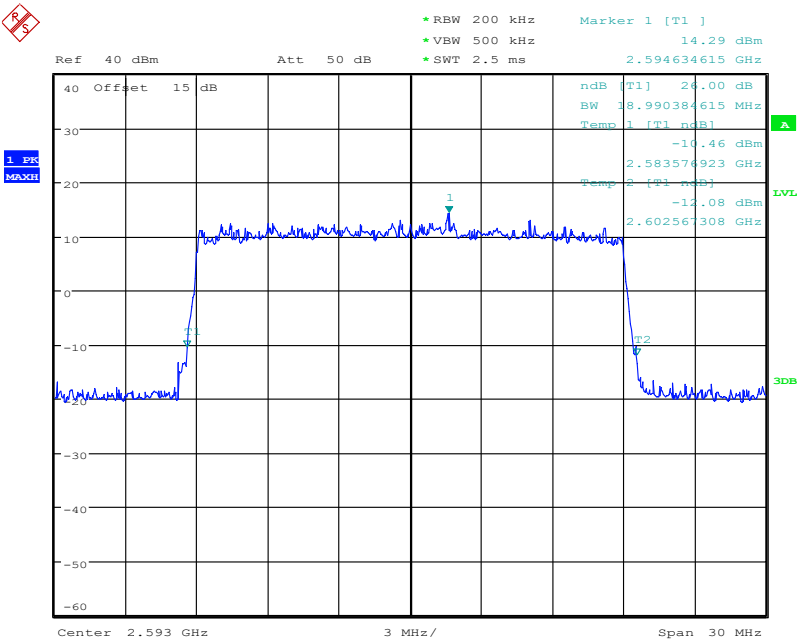
LTE Band41 16QAM -26dBc Channel 40620 BW=15MHz RB=25 RB Offset=0

Report No.:B19W50598-WWAN_Rev1



Date: 21.FEB.2020 07:52:30

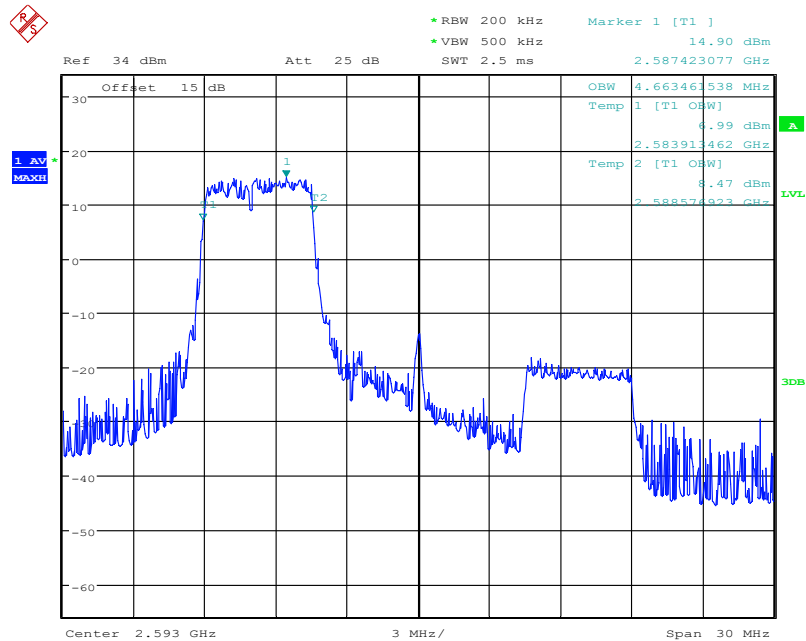
LTE Band41 QPSK 99% Channel 40620 BW=20MHz RB=100 RB Offset=0



Date: 21.FEB.2020 07:52:14

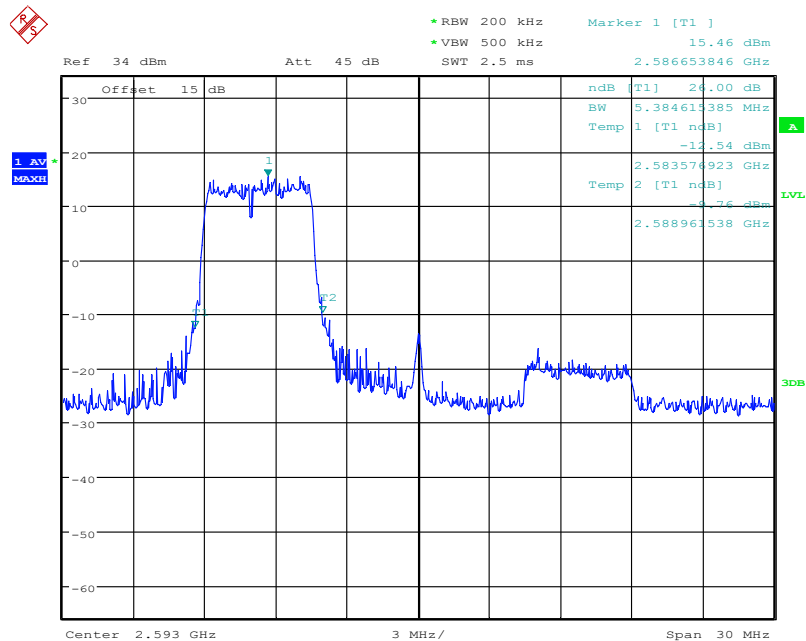
LTE Band41 QPSK -26dBc Channel 40620 BW=20MHz RB=100 RB Offset=0

Report No.:B19W50598-WWAN_Rev1



Date: 25.FEB.2020 16:38:29

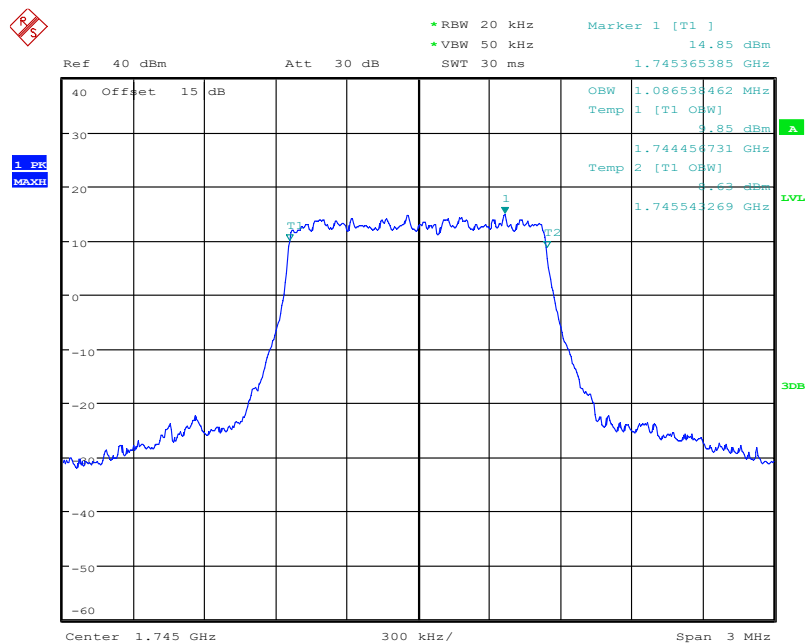
LTE Band41 16QAM 99% Channel 40620 BW=20MHz RB=25 RB Offset=0



Date: 25.FEB.2020 16:37:59

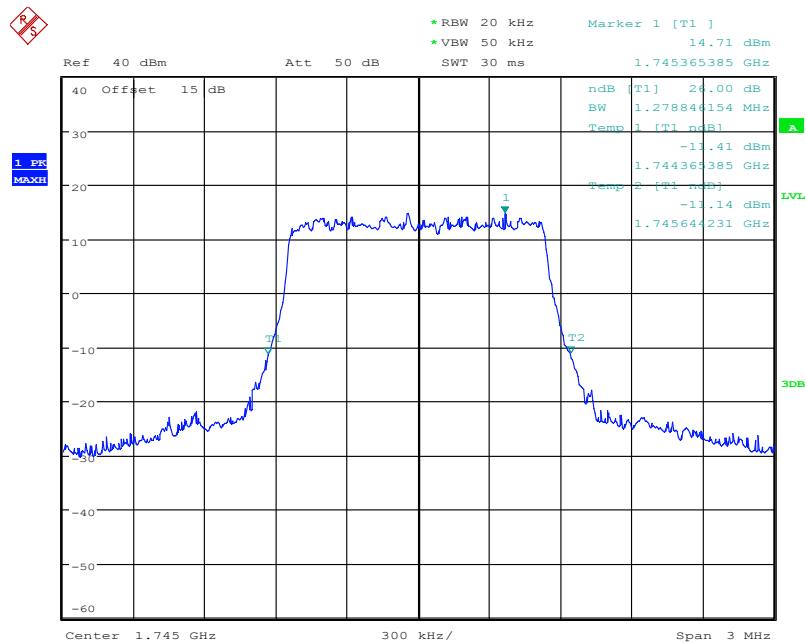
LTE Band41 16QAM -26dBc Channel 40620 BW=20MHz RB=25 RB Offset=0

Graphical results for LTE B66:



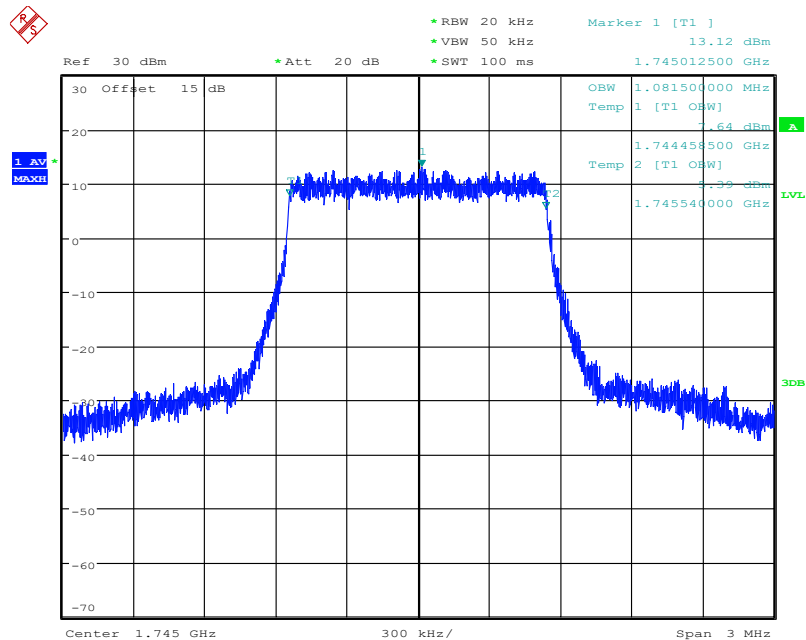
Date: 21.FEB.2020 07:55:19

LTE Band66 QPSK 99% Channel 132322 BW=1.4MHz RB=6 RB Offset=0



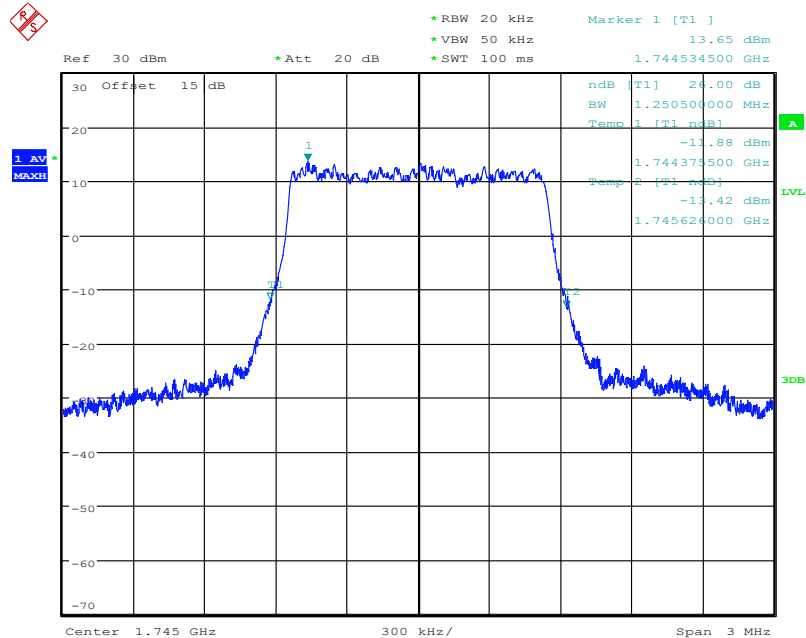
Date: 21.FEB.2020 07:55:38

LTE Band66 QPSK -26dBc Channel 132322 BW=1.4MHz RB=6 RB Offset=0



Date: 23.FEB.2020 05:18:06

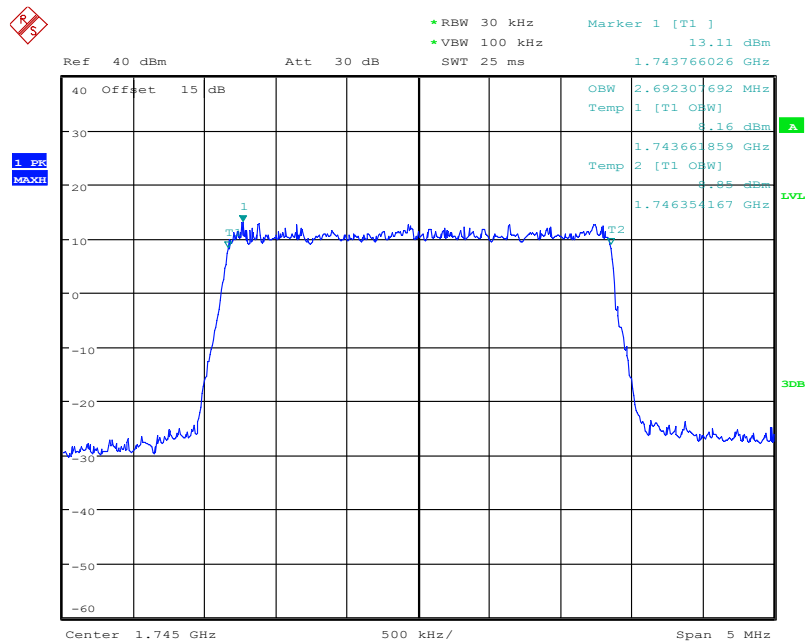
LTE Band66 16QAM 99% Channel 26365 BW=1.4MHz RB=6 RB Offset=0



Date: 23.FEB.2020 05:17:51

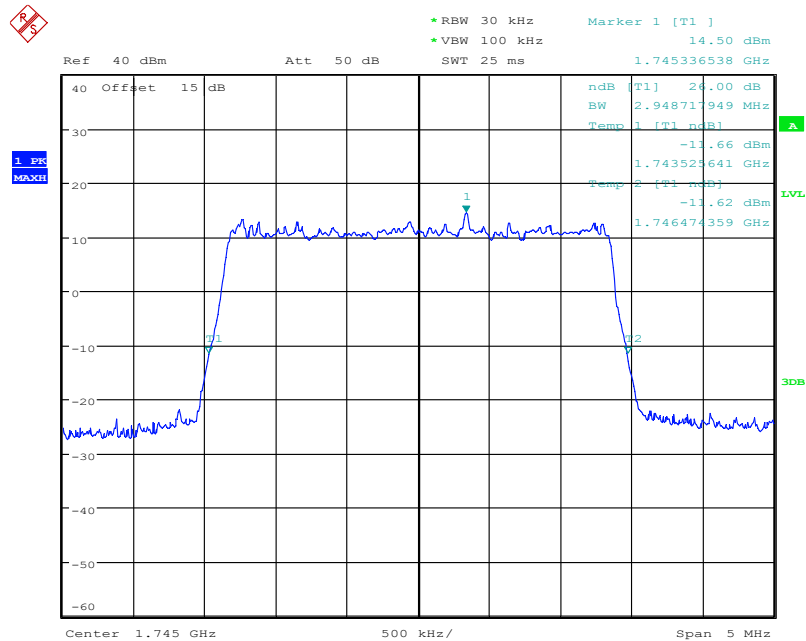
LTE Band66 16QAM -26dBc Channel 26365 BW=1.4MHz RB=6 RB Offset=0

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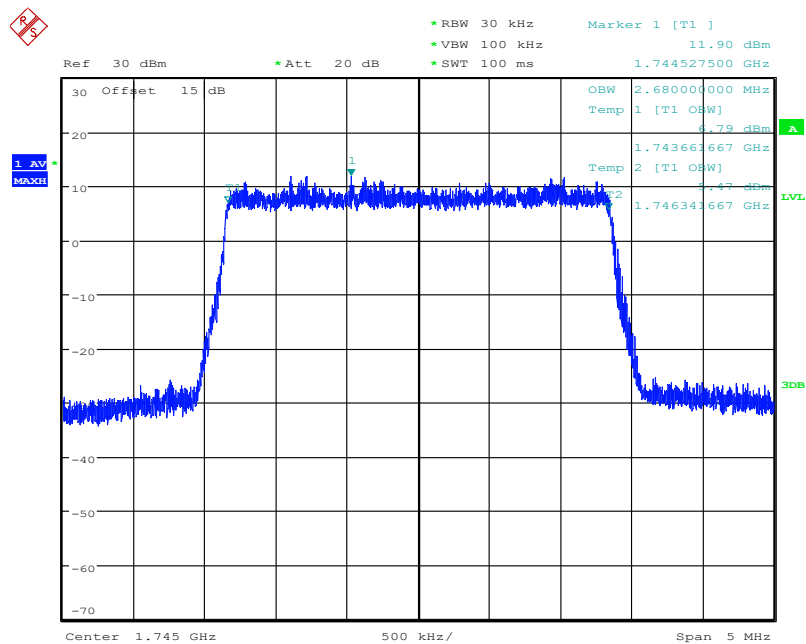
Date: 21.FEB.2020 07:58:08

LTE Band66 QPSK 99% Channel 26365 BW=3MHz RB=15 RB Offset=0



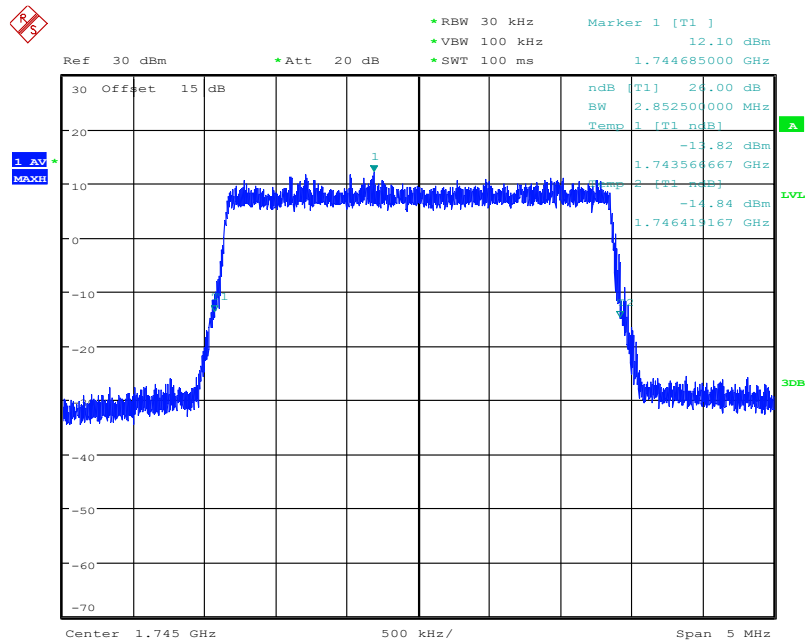
Date: 21.FEB.2020 07:57:54

LTE Band66 QPSK -26dBc Channel 26365 BW=3MHz RB=15 RB Offset=0



Date: 23.FEB.2020 05:19:15

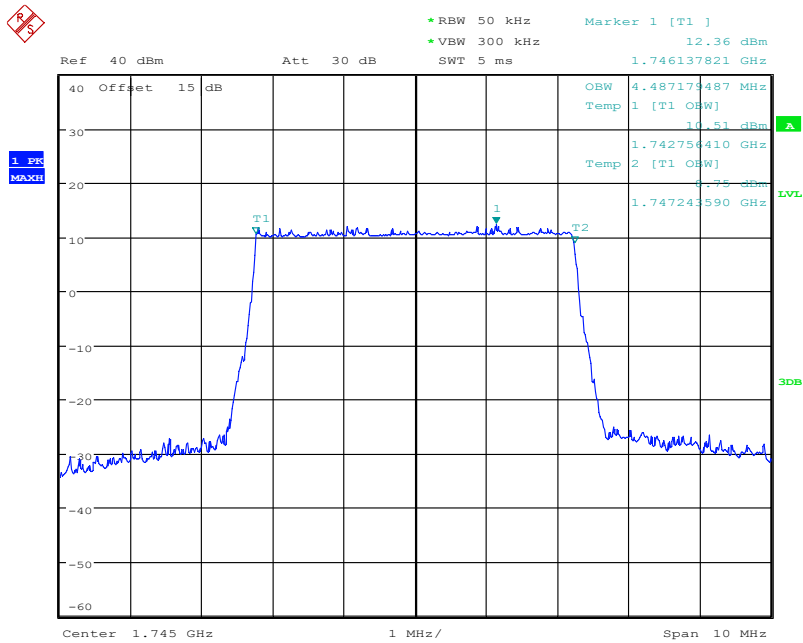
LTE Band66 16QAM 99% Channel 26365 BW=3MHz RB=15 RB Offset=0



Date: 23.FEB.2020 05:19:34

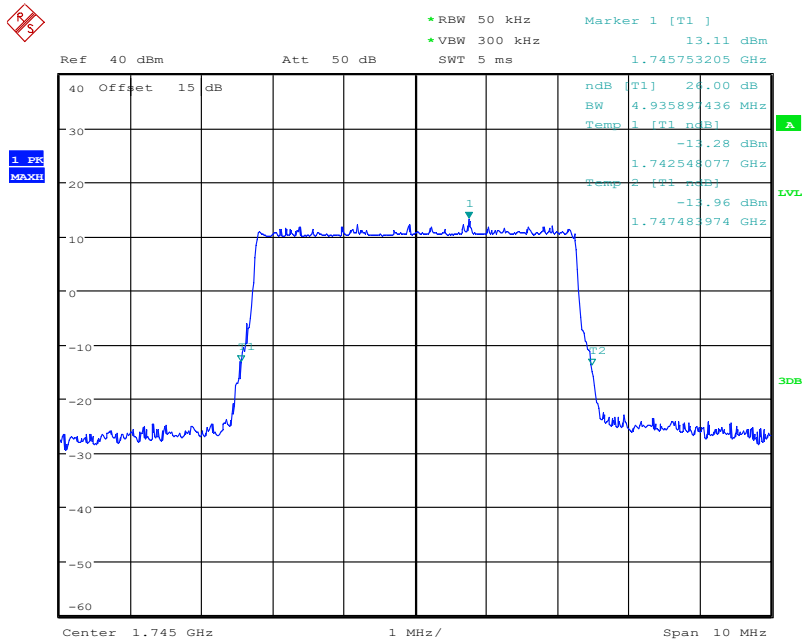
LTE Band66 16QAM -26dBc Channel 26365 BW=3MHz RB=15 RB Offset=0

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Date: 21.FEB.2020 07:58:50

LTE Band66 QPSK 99% Channel 26365 BW=5MHz RB=25 RB Offset=0

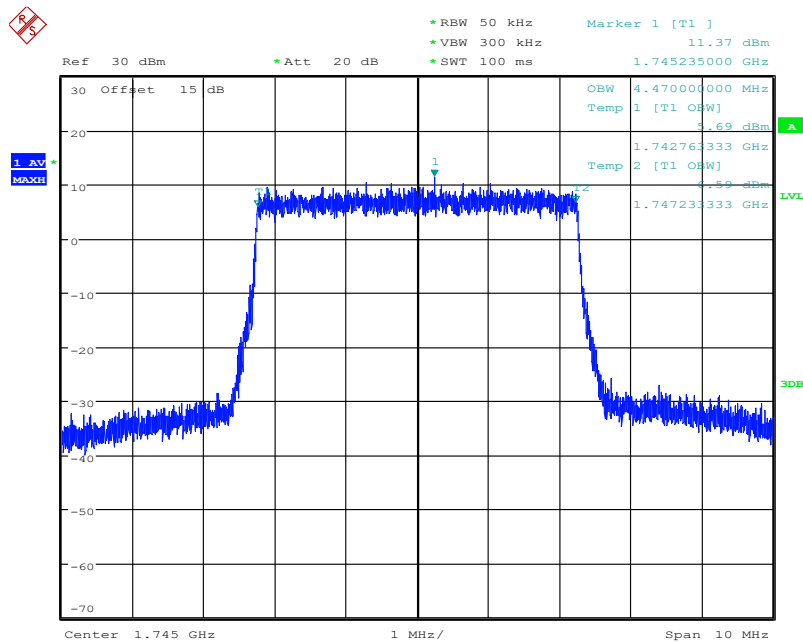


Date: 21.FEB.2020 07:59:05

LTE Band66 QPSK -26dBc Channel 26365 BW=5MHz RB=25 RB Offset=0

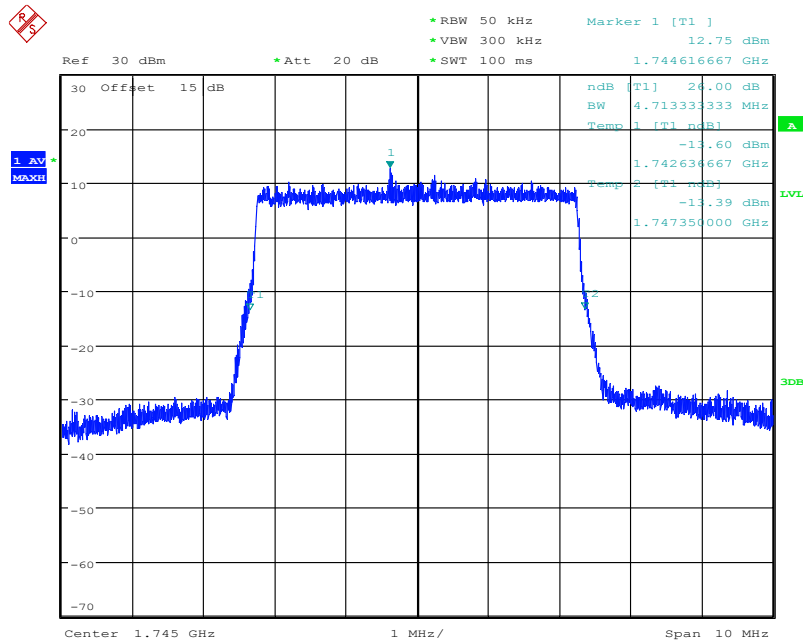
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Report No.:B19W50598-WWAN_Rev1



Date: 23.FEB.2020 05:20:55

LTE Band66 16QAM 99% Channel 26365 BW=5MHz RB=25 RB Offset=0

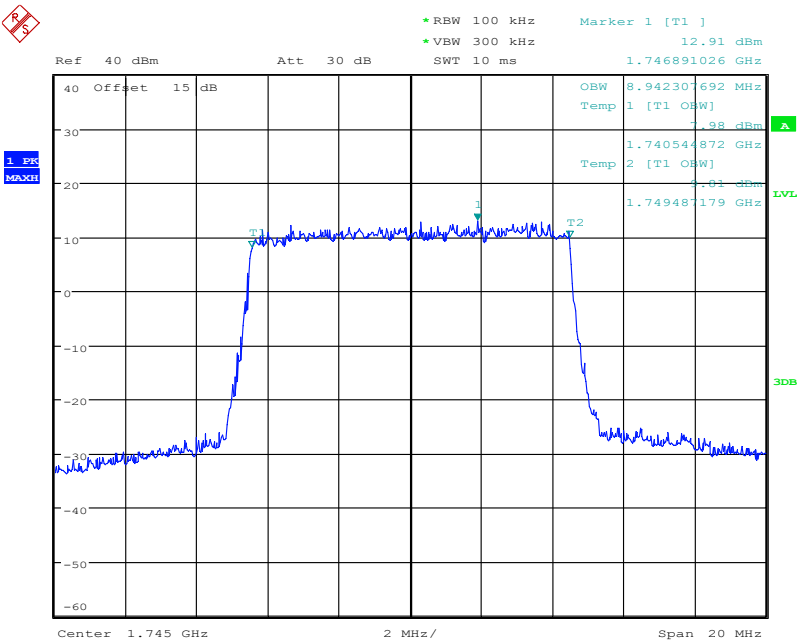


Date: 23.FEB.2020 05:20:40

LTE Band66 16QAM -26dBc Channel 26365 BW=5MHz RB=25 RB Offset=0

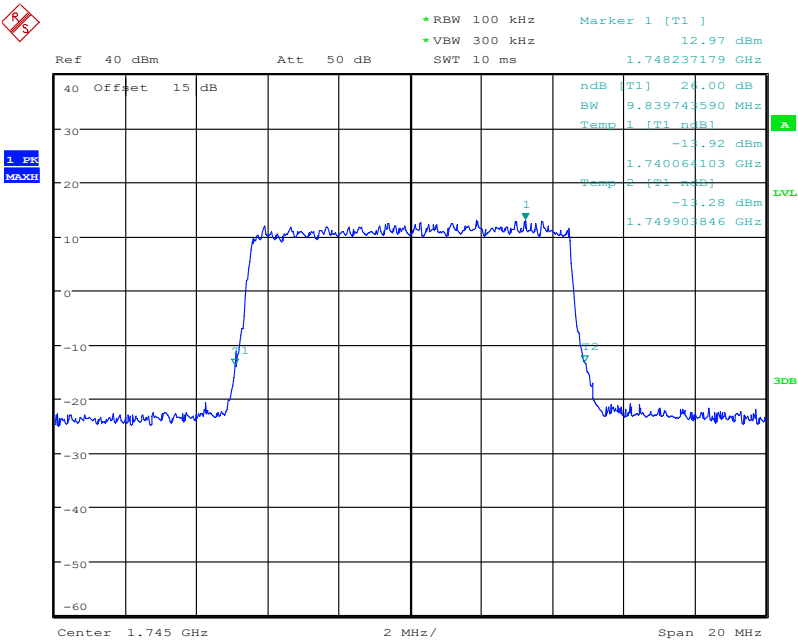
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Tel: 0086-23-88069965 FAX: 0086-23-88608777

Report No.:B19W50598-WWAN_Rev1



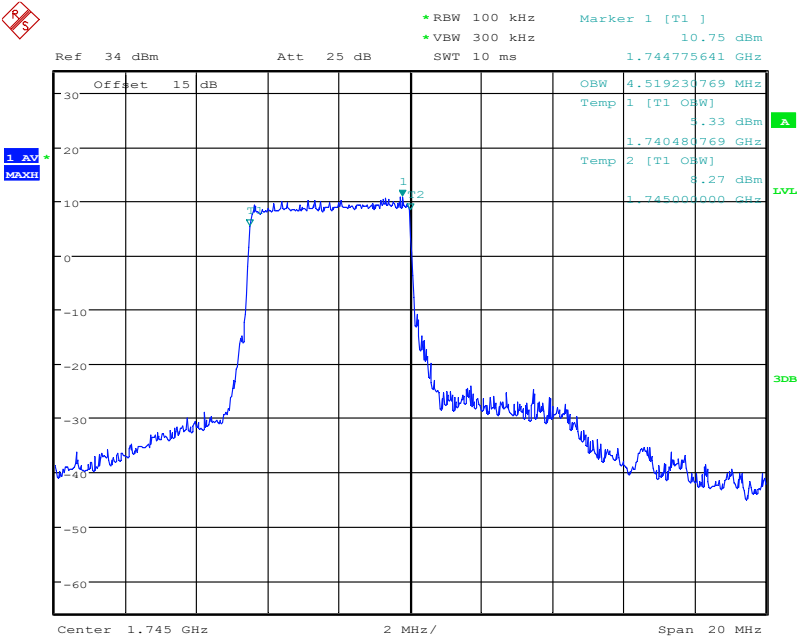
Date: 21.FEB.2020 08:00:11

LTE Band66 QPSK 99% Channel 26365 BW=10MHz RB=50 RB Offset=0



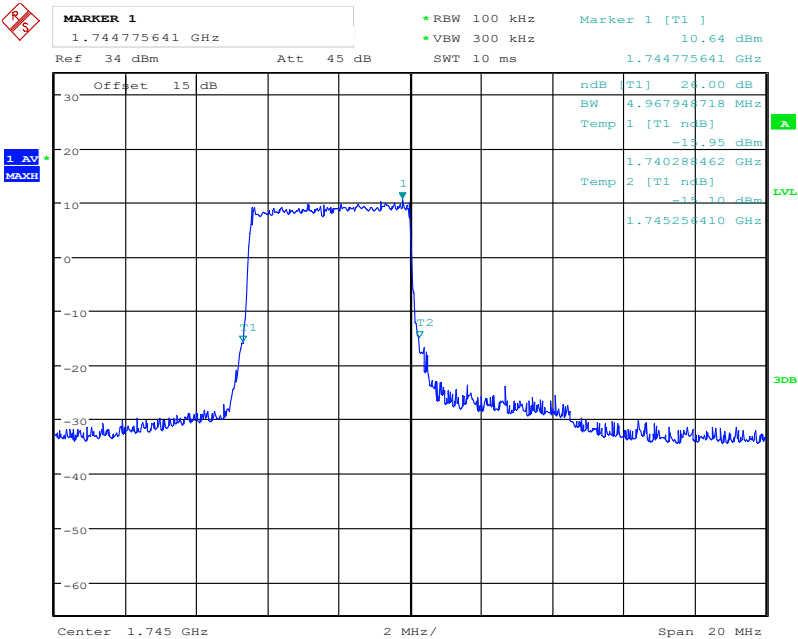
Date: 21.FEB.2020 07:59:58

LTE Band66 QPSK -26dBc Channel 26365 BW=10MHz RB=50 RB Offset=0



Date: 25.FEB.2020 16:26:30

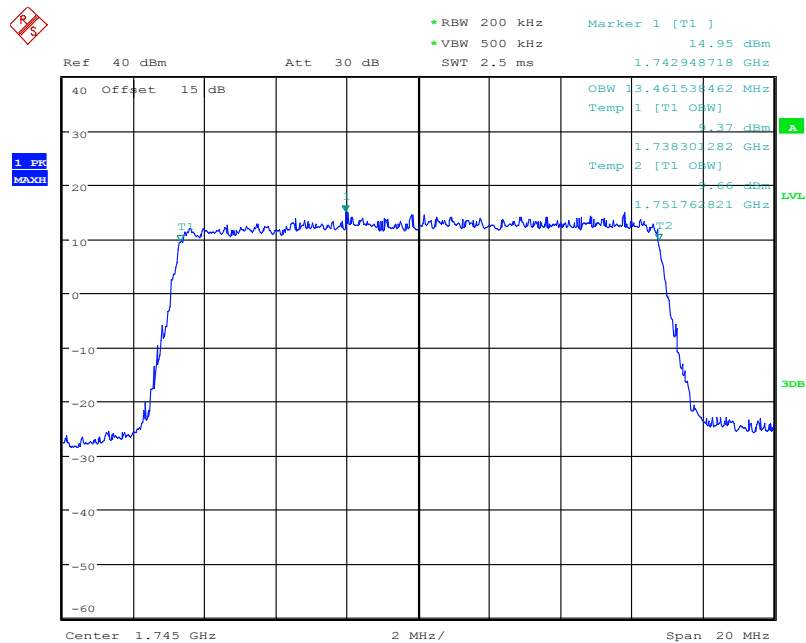
LTE Band66 16QAM 99% Channel 26365 BW=10MHz RB=25 RB Offset=0



Date: 25.FEB.2020 16:26:48

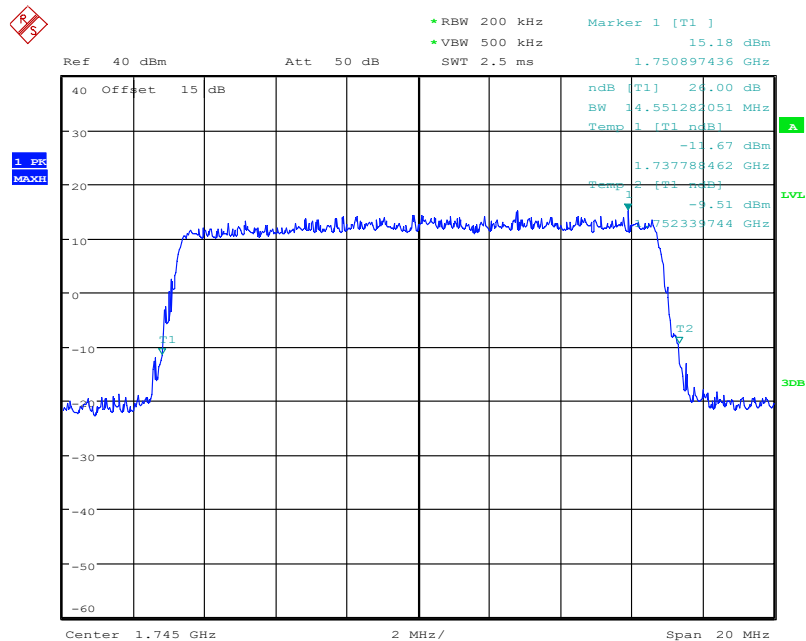
LTE Band66 16QAM -26dBc Channel 26365 BW=10MHz RB=25 RB Offset=0

Report No.:B19W50598-WWAN_Rev1



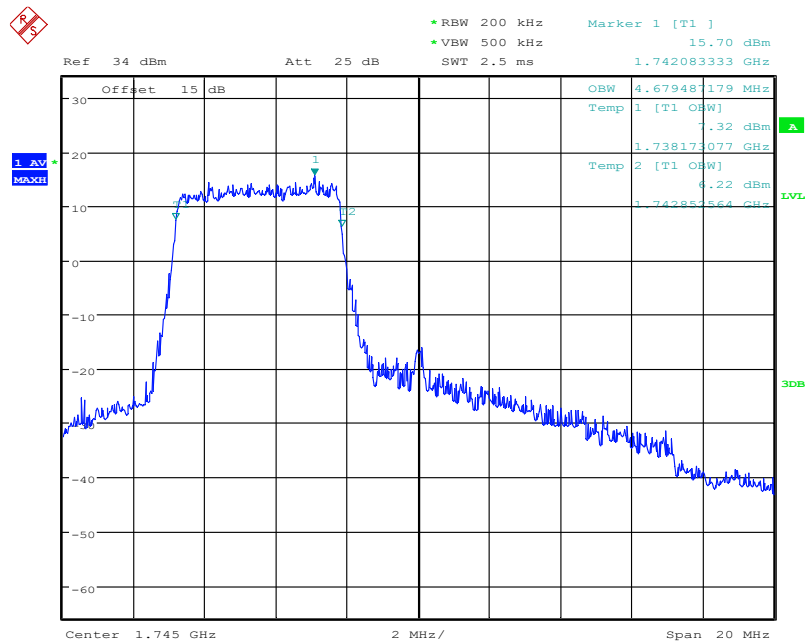
Date: 21.FEB.2020 08:00:51

LTE Band66 QPSK 99% Channel 26365 BW=15MHz RB=75 RB Offset=0



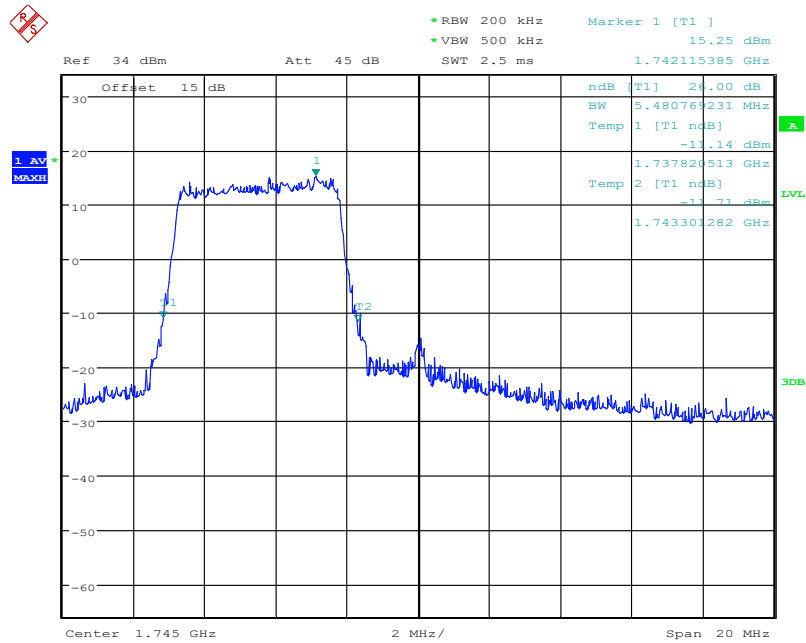
Date: 21.FEB.2020 08:01:04

LTE Band66 QPSK -26dBc Channel 26365 BW=15MHz RB=75 RB Offset=0



Date: 25.FEB.2020 16:28:05

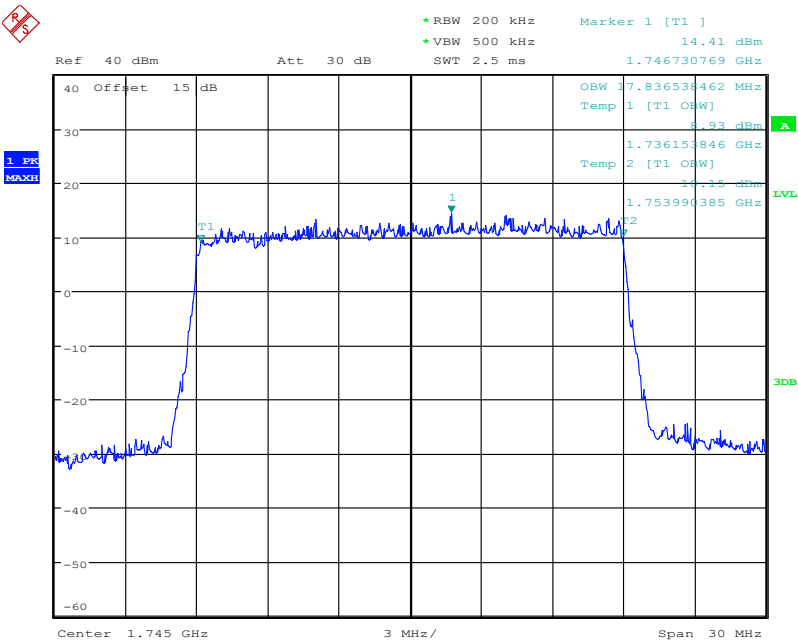
LTE Band66 16QAM 99% Channel 26365 BW=15MHz RB=25 RB Offset=0



Date: 25.FEB.2020 16:27:40

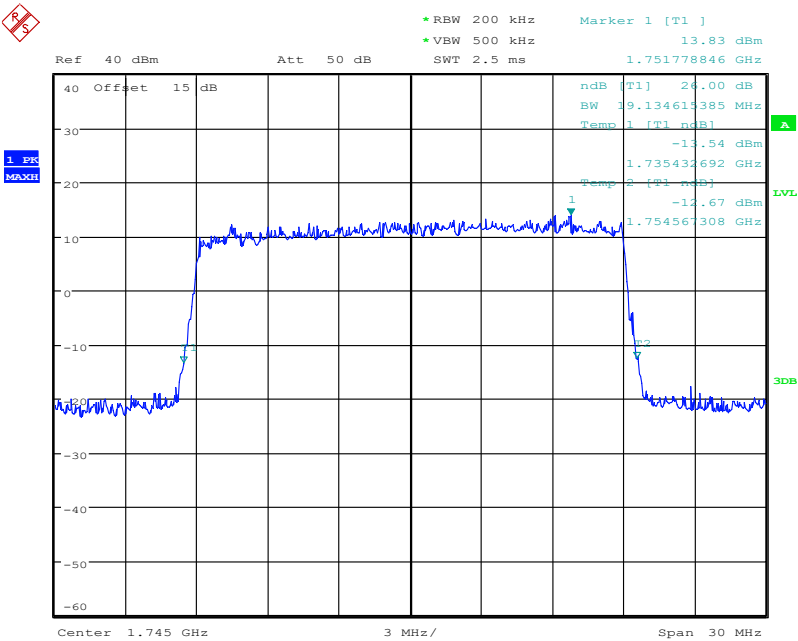
LTE Band66 16QAM -26dBc Channel 26365 BW=15MHz RB=25 RB Offset=0

Report No.:B19W50598-WWAN_Rev1



Date: 21.FEB.2020 08:01:54

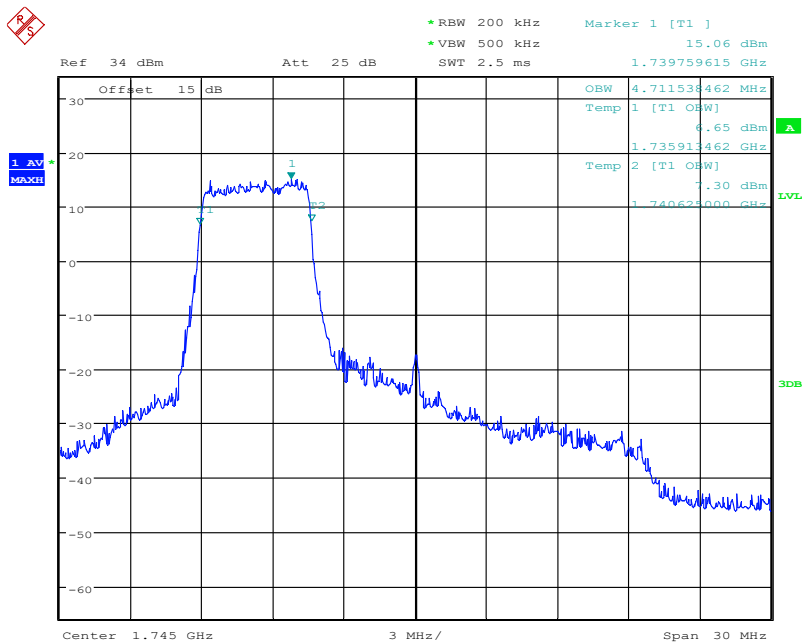
LTE Band66 QPSK 99% Channel 26365 BW=20MHz RB=100 RB Offset=0



Date: 21.FEB.2020 08:01:39

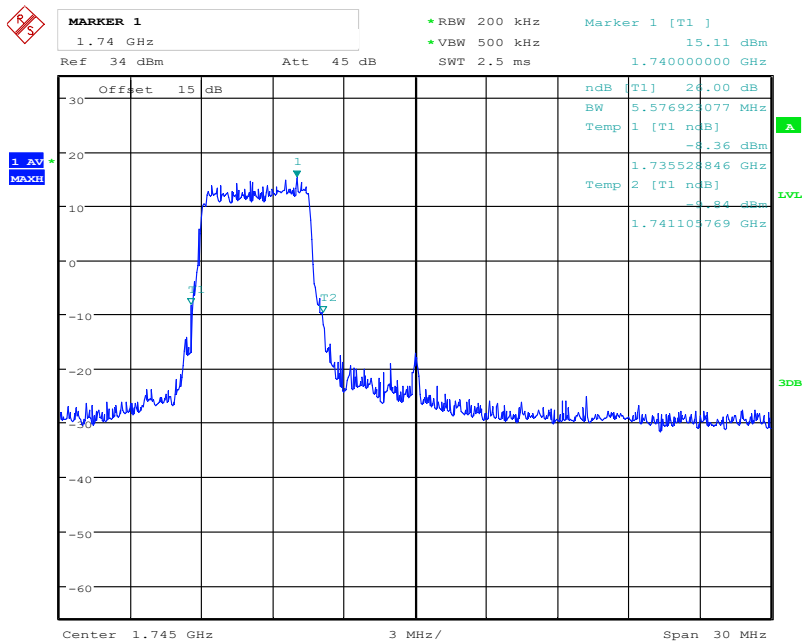
LTE Band66 QPSK -26dBc Channel 26365 BW=20MHz RB=100 RB Offset=0

Report No.:B19W50598-WWAN_Rev1



Date: 25.FEB.2020 16:30:10

LTE Band66 16QAM 99% Channel 26365 BW=20MHz RB=25 RB Offset=0



Date: 25.FEB.2020 16:30:29

LTE Band66 16QAM -26dBc Channel 26365 BW=20MHz RB=25 RB Offset=0

5.3 Conducted Spurious Emission

Specifications:	FCC Part 2.1051,24.238,2.1053,22.917, 27.53, 90.691 RSS-130 4.6, RSS-132 4.5, RSS-133 6.5, RSS-199 4.6
DUT Serial Number:	868822040009761
Test conditions:	Ambient Temperature:15℃-35℃ Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	--

Limit Level Construction:

According to Part 22.917 (a), i.e., 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.

According to Part 24.238 (a), i.e., 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, so the limit level is: $P(\text{dBm}) - (43 + 10 \log(P)) \text{ dB} = -13\text{dBm}$.

According to Part 27.53(h):

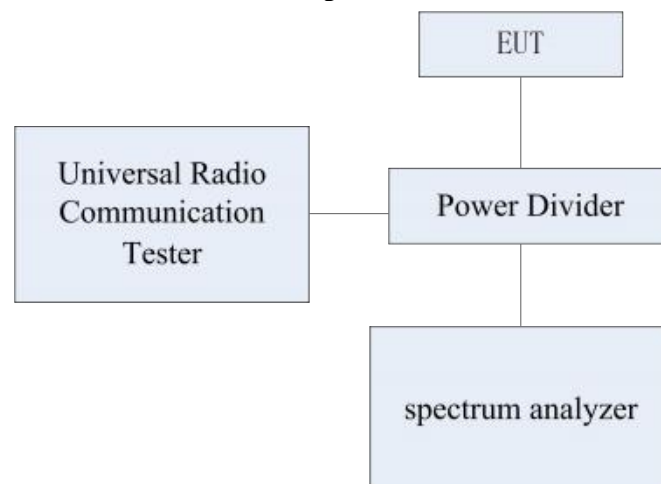
Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 Bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter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

According to Part 27.53(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.

Test Setup:

During the test, the EUT was controlled via the Wireless Communications Test Set to ensure max power transmission and proper modulation and measured by spectrum analyzer.



Test Method:

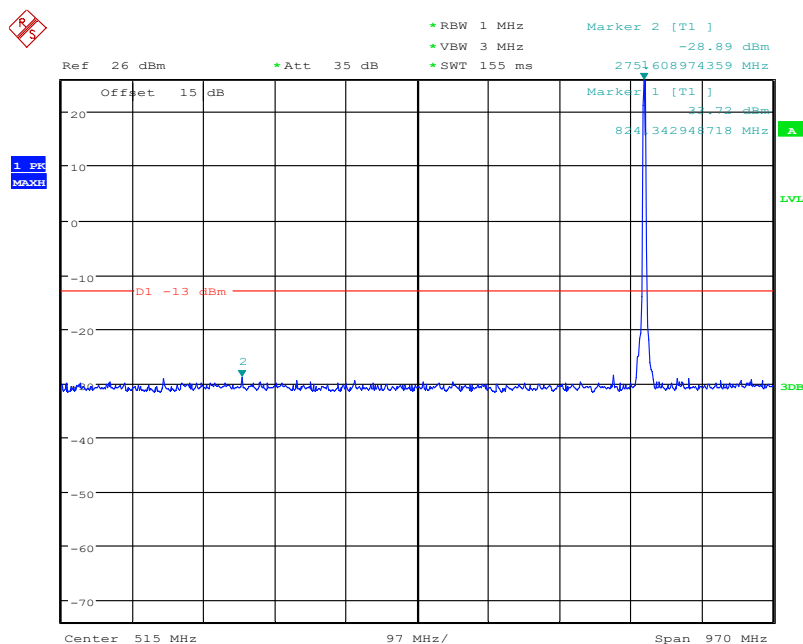
The measurement was performed accordance with section 2.2.13 of ANSI/TIA-603-D: Land Mobile FM or PM Communications Equipment Measurement and Performance Standards.

The measurement was performed accordance with section 2.2.13 of ANSI/TIA-603-D-2010: Land Mobile FM or PM Communications Equipment Measurement and Performance Standards.

The RF output of the transmitter was connected to a spectrum analyzer through a calibrated coaxial cable. Sufficient scans were taken to show the out-of-Band emissions, if any, up to 10th harmonic. The EUT was scanned for spurious emissions from 30MHz to 20GHz with sufficient Bandwidth and video resolution. The spectrum analyzer was set to Maximum hold mode to ensure that the worst-case emissions were captured.

Note: --

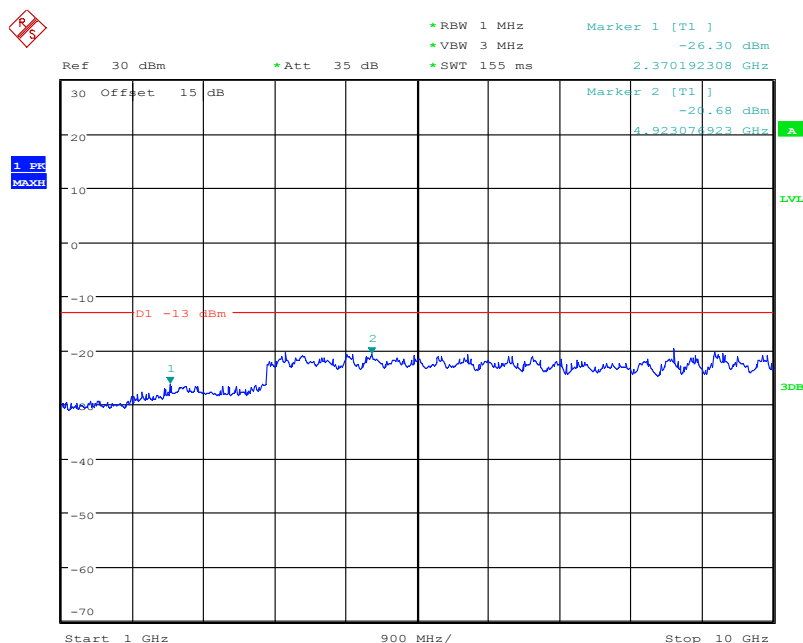
5.3.1 GSM850 Conducted Spurious Emission Results



Date: 22.FEB.2020 07:03:38

GMSK, Low channel, 824.200 MHz, 30MHz to 1GHz

Note: The strong emission shown in each case is the carrier signal.

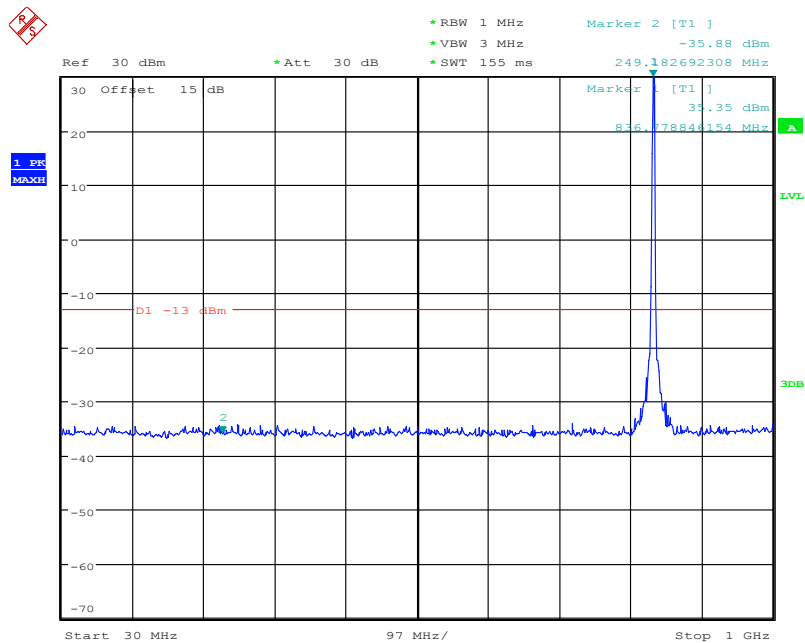


Date: 22.FEB.2020 07:04:38

GMSK, Low channel, 824.200 MHz, 1GHz to 10GHz

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Tel: 0086-23-88069965 FAX: 0086-23-88608777

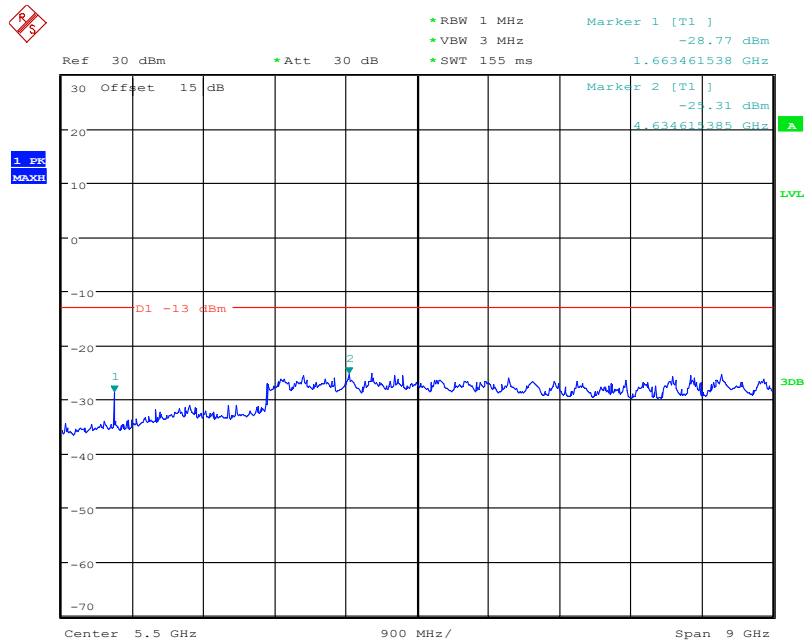
Report No.:B19W50598-WWAN_Rev1



Date: 22.FEB.2020 07:07:47

GMSK, Mid Channel, 836.6 MHz, 30MHz to 1GHz

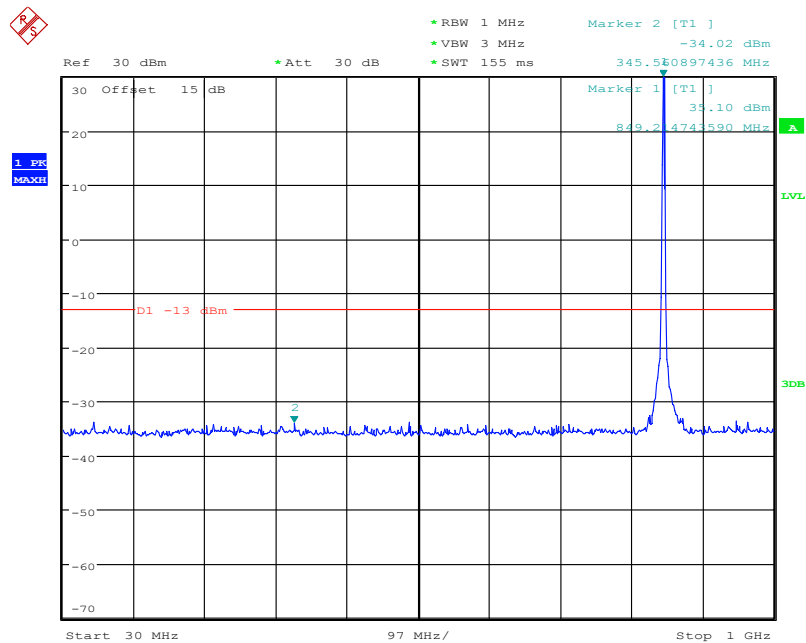
Note: The strong emission shown in each case is the carrier signal.



Date: 22.FEB.2020 07:07:03

GMSK, Mid Channel, 836.6 MHz, 1GHz to 10GHz

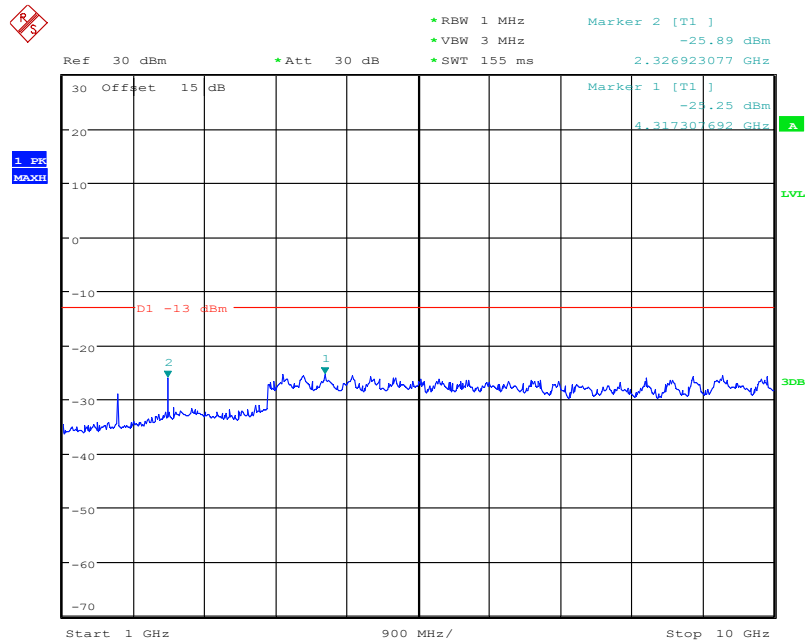
Report No.:B19W50598-WWAN_Rev1



Date: 22.FEB.2020 07:08:53

GMSK, High Channel, 848.8 MHz, 30MHz to 1GHz

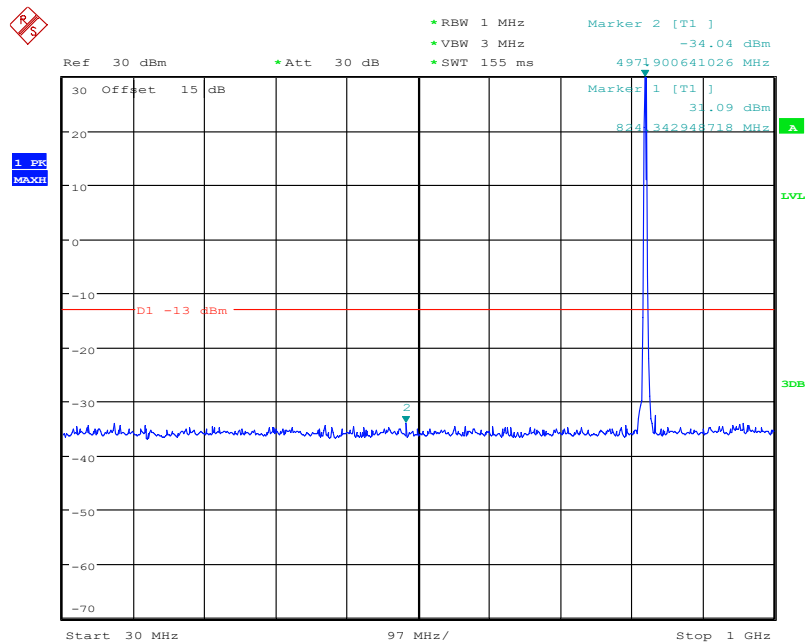
Note: The strong emission shown in each case is the carrier signal.



Date: 22.FEB.2020 07:09:38

GMSK, High Channel, 848.8 MHz, 1GHz to 10GHz

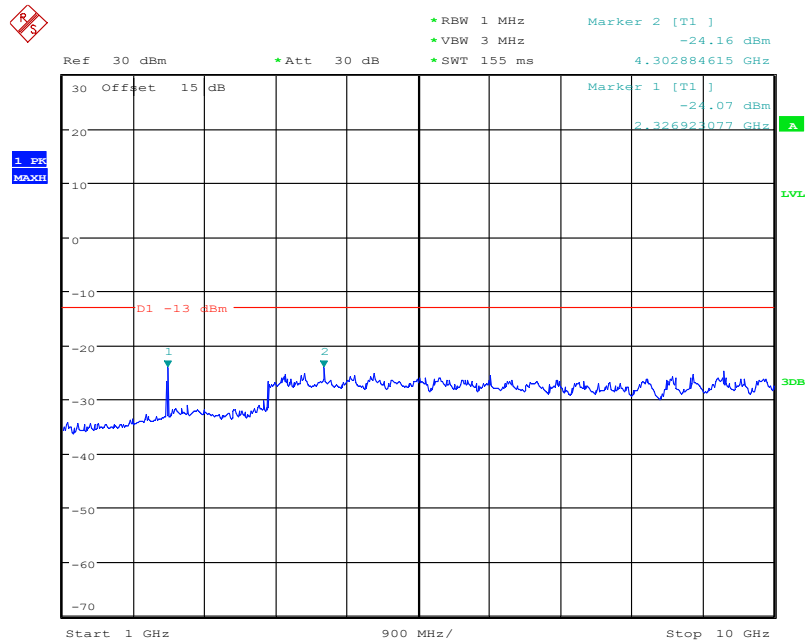
Report No.:B19W50598-WWAN_Rev1



Date: 22.FEB.2020 07:12:32

8PSK, Low channel, 824.200 MHz, 30MHz to 1GHz

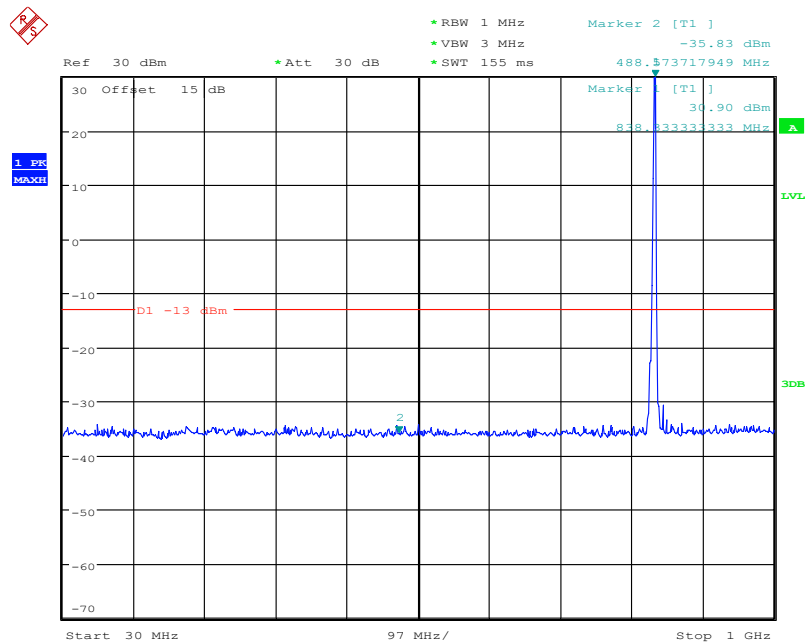
Note: The strong emission shown in each case is the carrier signal.



Date: 22.FEB.2020 07:12:00

8PSK, Low channel, 824.200 MHz, 1GHz to 10GHz

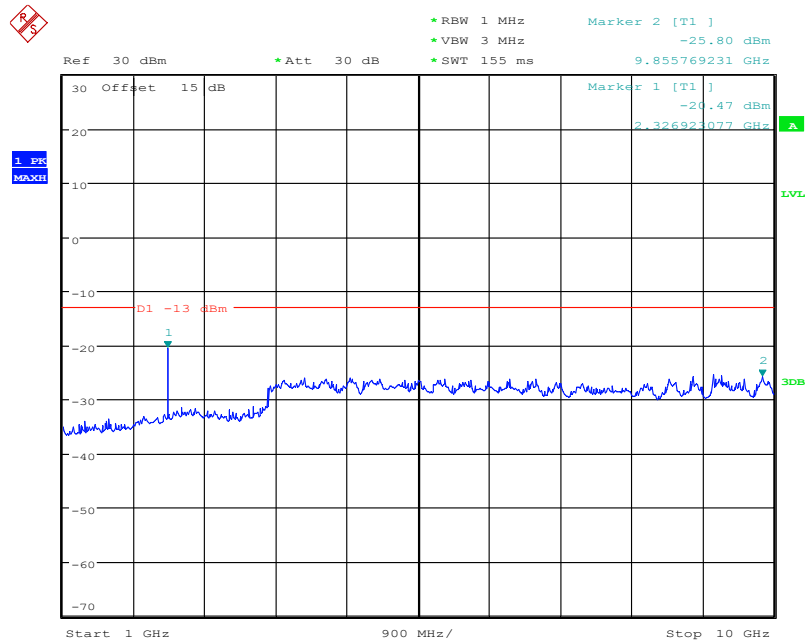
Report No.:B19W50598-WWAN_Rev1



Date: 22.FEB.2020 07:13:08

8PSK, Mid Channel, 836.6 MHz, 30MHz to 1GHz

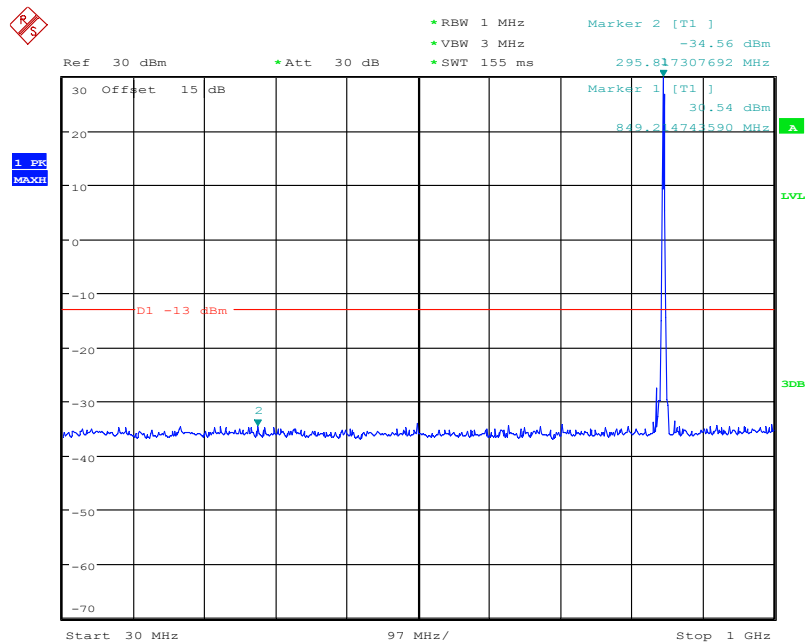
Note: The strong emission shown in each case is the carrier signal.



Date: 22.FEB.2020 07:13:39

8PSK, Mid Channel, 836.6 MHz, 1GHz to 10GHz

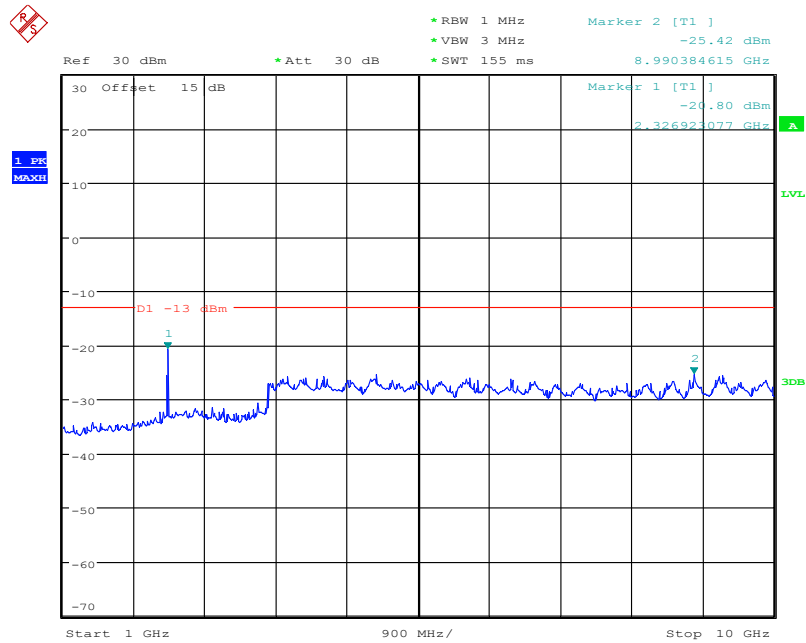
Report No.:B19W50598-WWAN_Rev1



Date: 22.FEB.2020 07:14:43

8PSK, High Channel, 848.8 MHz, 30MHz to 1GHz

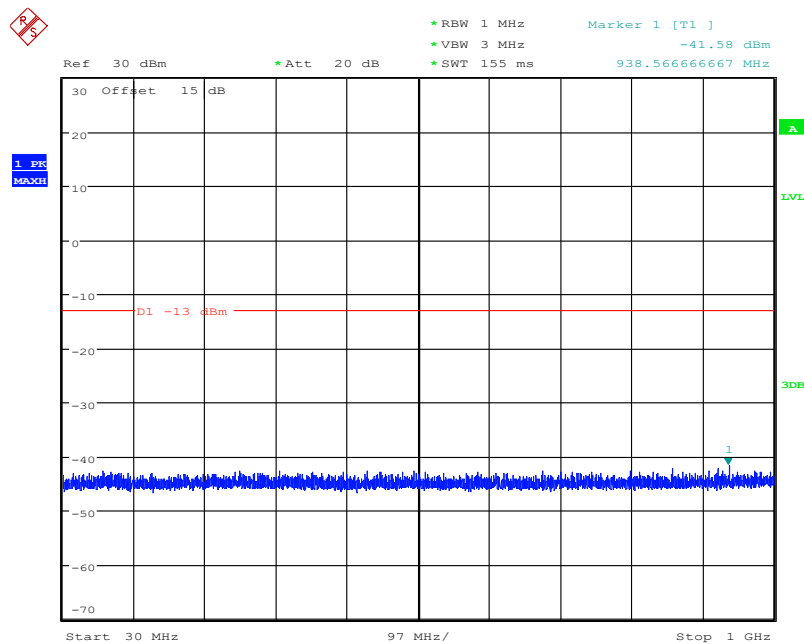
Note: The strong emission shown in each case is the carrier signal.



Date: 22.FEB.2020 07:14:02

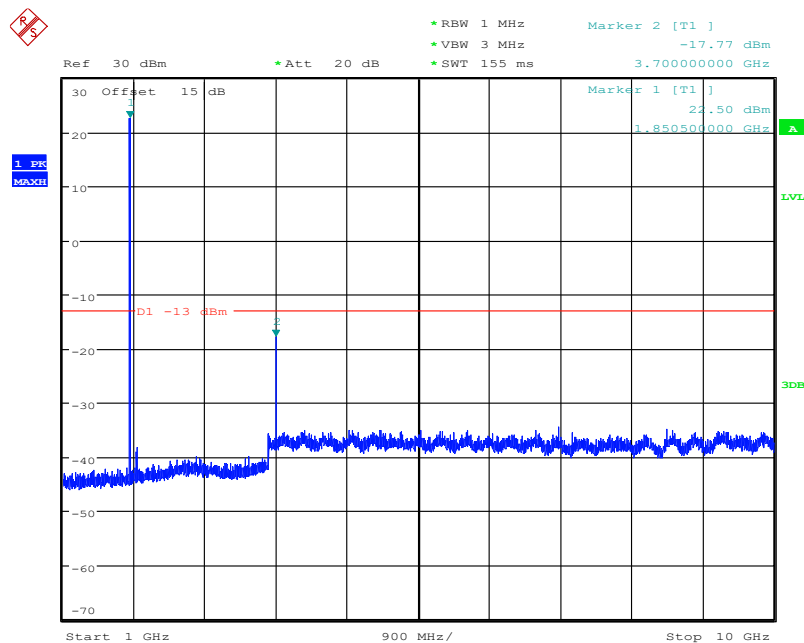
8PSK, High Channel, 848.8 MHz, 1GHz to 10GHz

5.3.2 PCS1900 Conducted Spurious Emission Results



Date: 23.FEB.2020 02:26:04

GMSK, Low channel, 1850.2 MHz, 30MHz to 1GHz



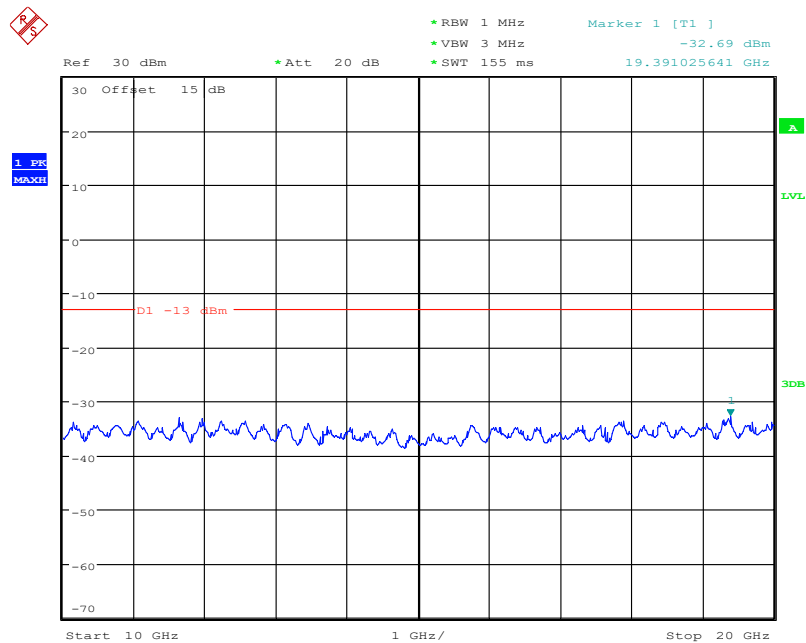
Date: 23.FEB.2020 02:25:49

GMSK, Low channel, 1850.2 MHz, 1GHz to 10GHz

Note: The strong emission shown is the carrier signal.

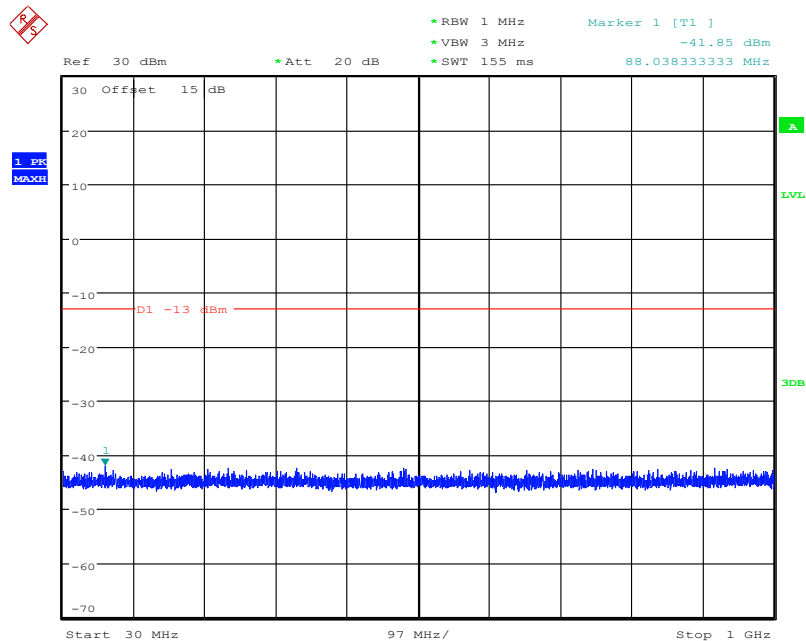
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Report No.:B19W50598-WWAN_Rev1



Date: 22.FEB.2020 09:02:58

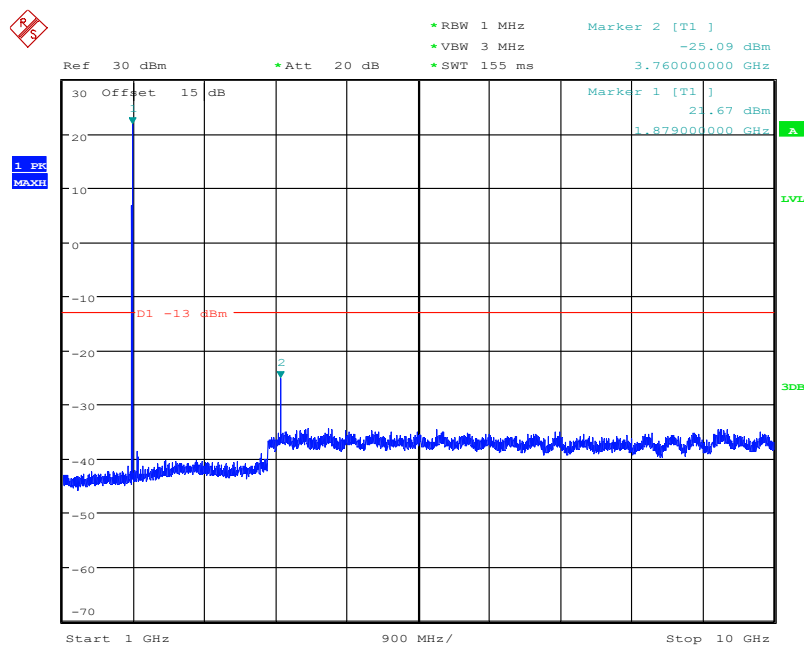
GMSK, Low channel, 1850.2 MHz, 10GHz to 20GHz



Date: 23.FEB.2020 02:24:40

GMSK, Middle channel, 1880.0 MHz, 30MHz to 1GHz

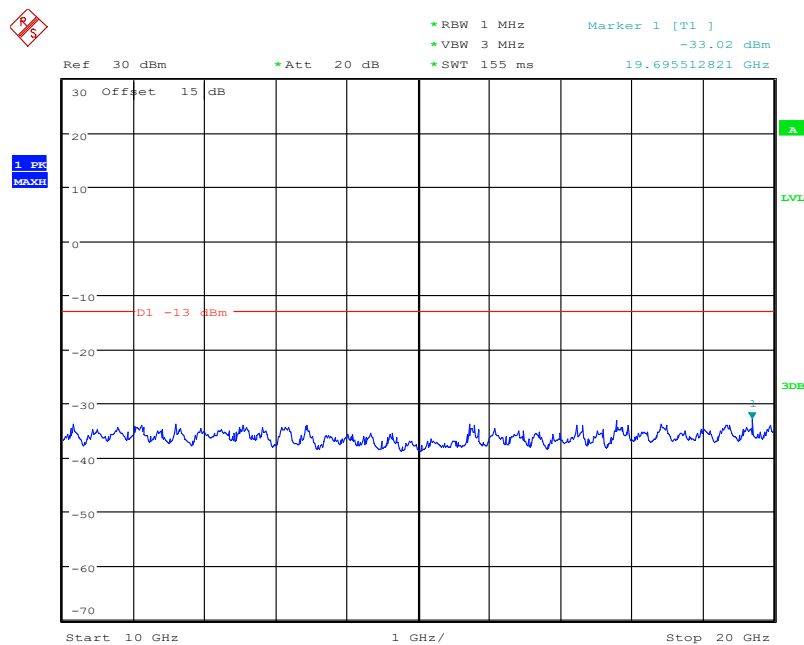
Report No.:B19W50598-WWAN_Rev1



Date: 23.FEB.2020 02:25:20

GMSK, Middle channel, 1880.0 MHz, 1GHz to 10GHz

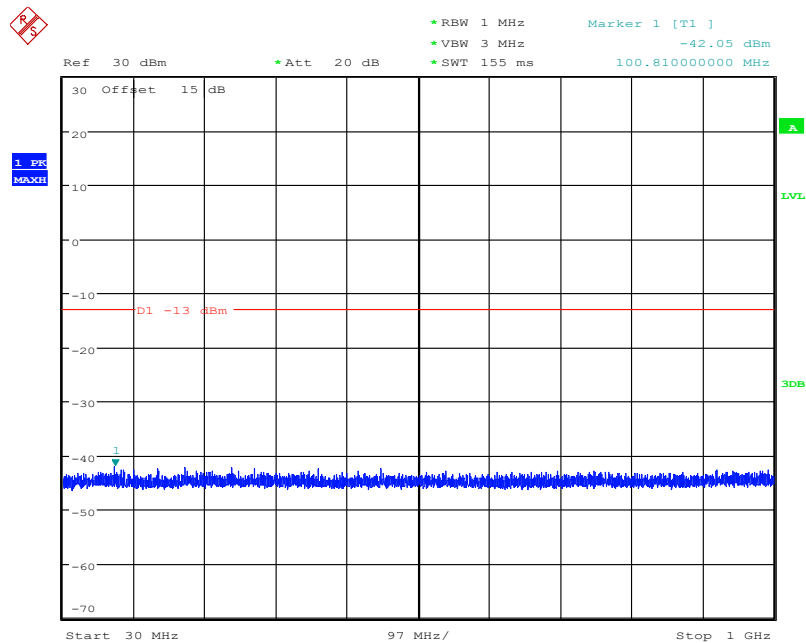
Note: The strong emission shown is the carrier signal.



Date: 22.FEB.2020 09:05:09

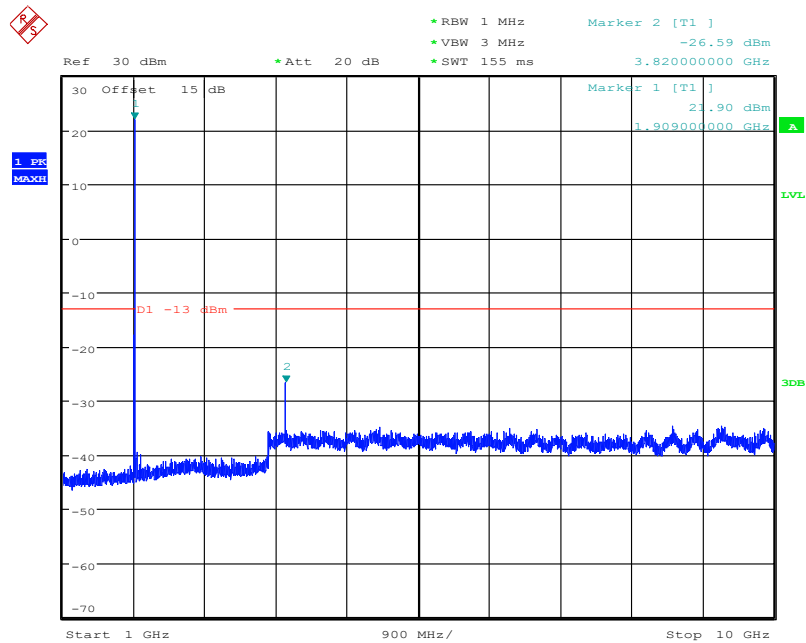
GMSK, Middle channel, 1880.0 MHz, 10GHz to 20GHz

Report No.:B19W50598-WWAN_Rev1



Date: 23.FEB.2020 02:24:23

GMSK, High channel, 1909.8 MHz, 30MHz to 1GHz

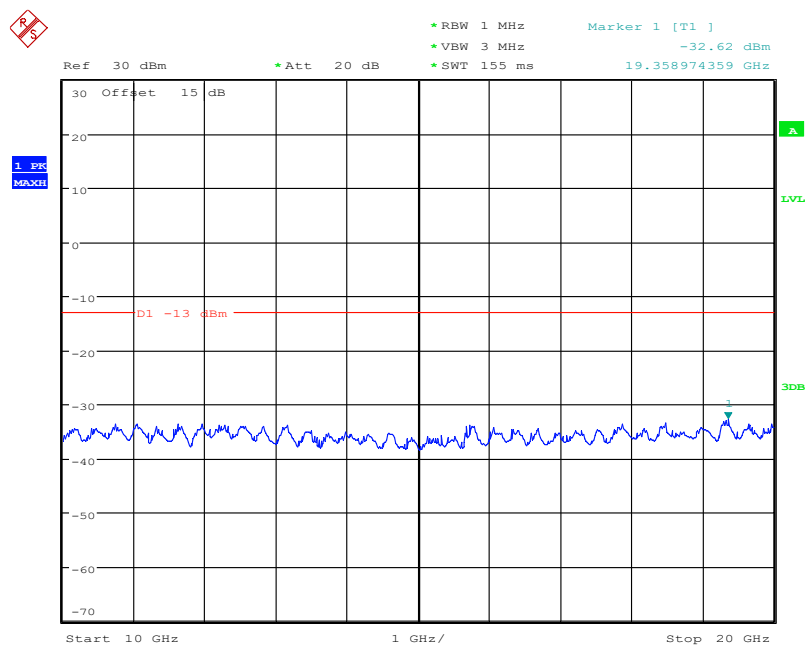


Date: 23.FEB.2020 02:24:00

GMSK, High channel, 1909.8 MHz, 1GHz to 10GHz

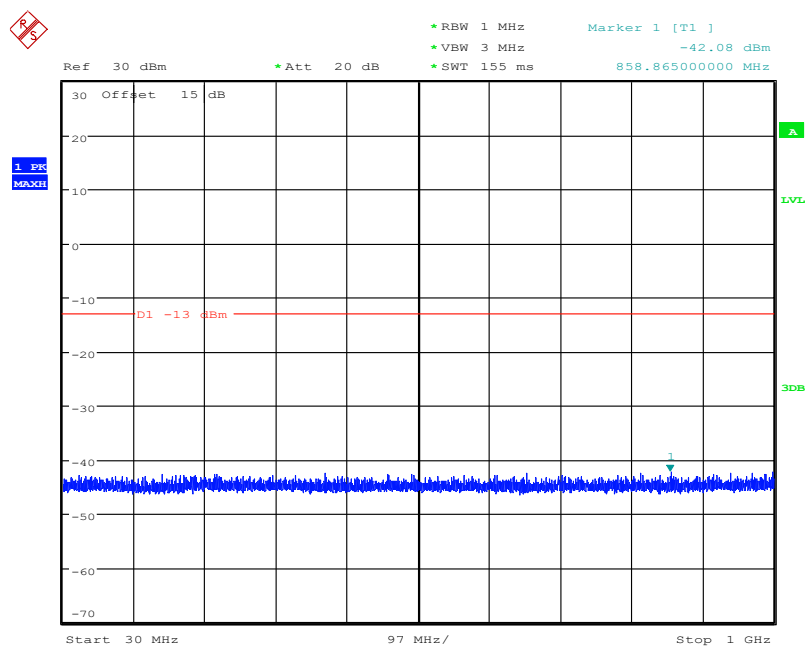
Note: The strong emission shown is the carrier signal.

Report No.:B19W50598-WWAN_Rev1



Date: 22.FEB.2020 09:06:22

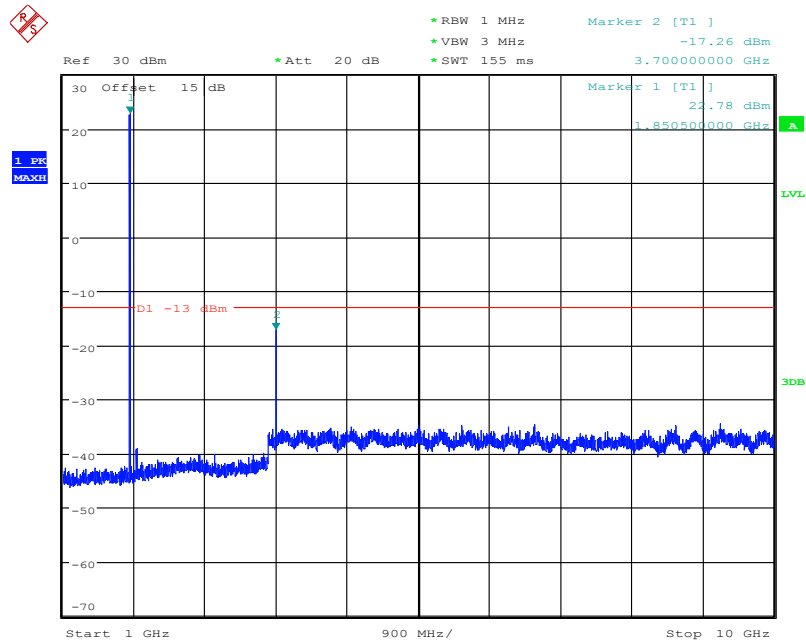
GMSK, High channel, 1909.8 MHz, 10GHz to 20GHz



Date: 23.FEB.2020 02:22:28

8PSK, Low channel, 1850.2 MHz, 30MHz to 1GHz

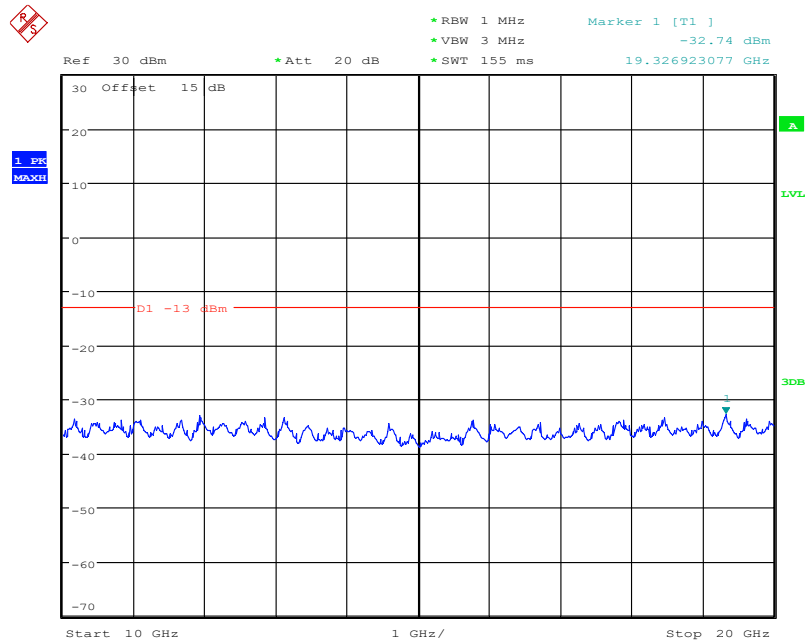
Report No.:B19W50598-WWAN_Rev1



Date: 23.FEB.2020 02:22:09

8PSK, Low channel, 1850.2 MHz, 1GHz to 10GHz

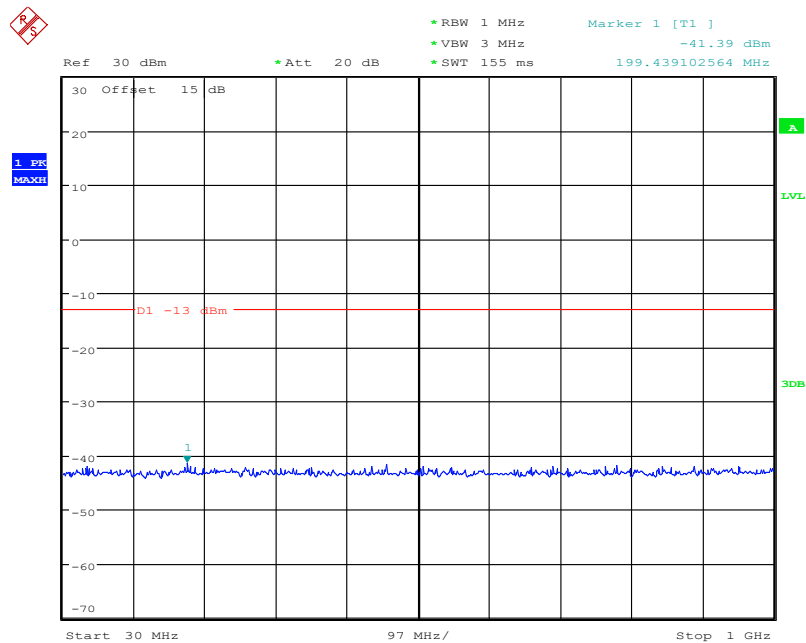
Note: The strong emission shown is the carrier signal.



Date: 22.FEB.2020 09:28:37

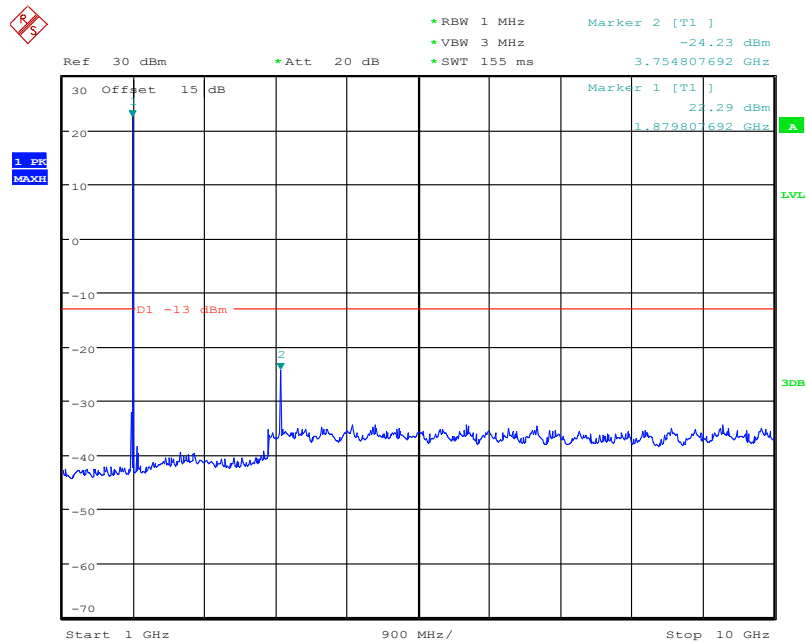
8PSK, Low channel, 1850.2 MHz, 10GHz to 20GHz

Report No.:B19W50598-WWAN_Rev1



Date: 23.FEB.2020 02:20:05

8PSK, Middle channel, 1880.0 MHz, 30MHz to 1GHz

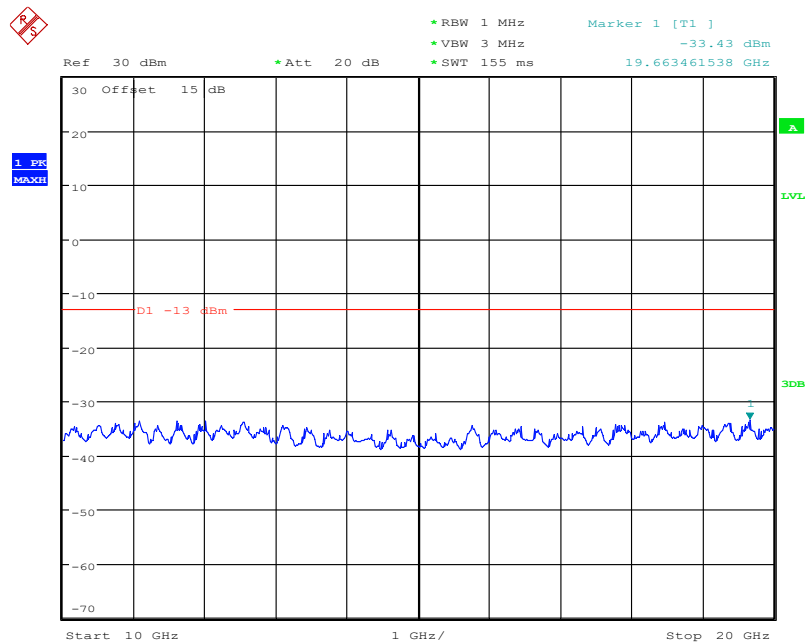


Date: 23.FEB.2020 02:20:30

8PSK, Middle channel, 1880.0 MHz, 1GHz to 10GHz

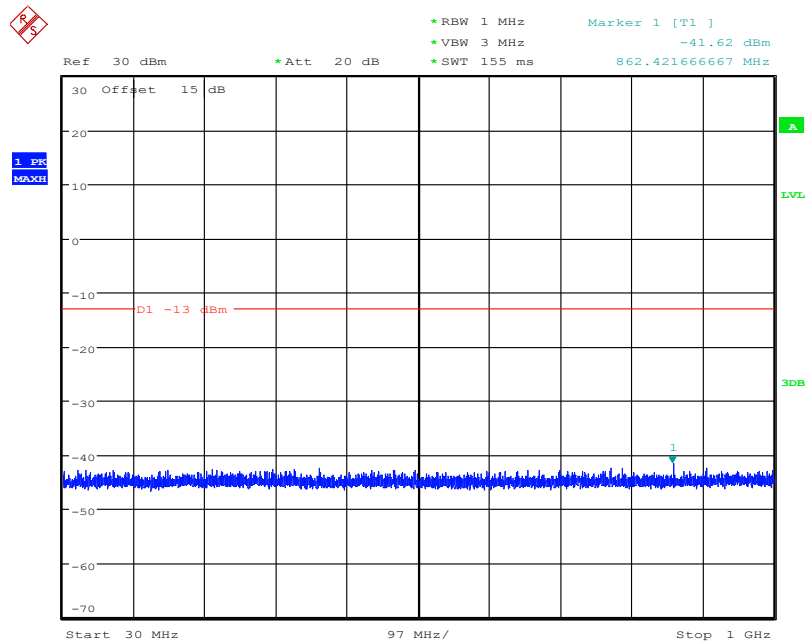
Note: The strong emission shown is the carrier signal.

Report No.:B19W50598-WWAN_Rev1



Date: 22.FEB.2020 09:29:00

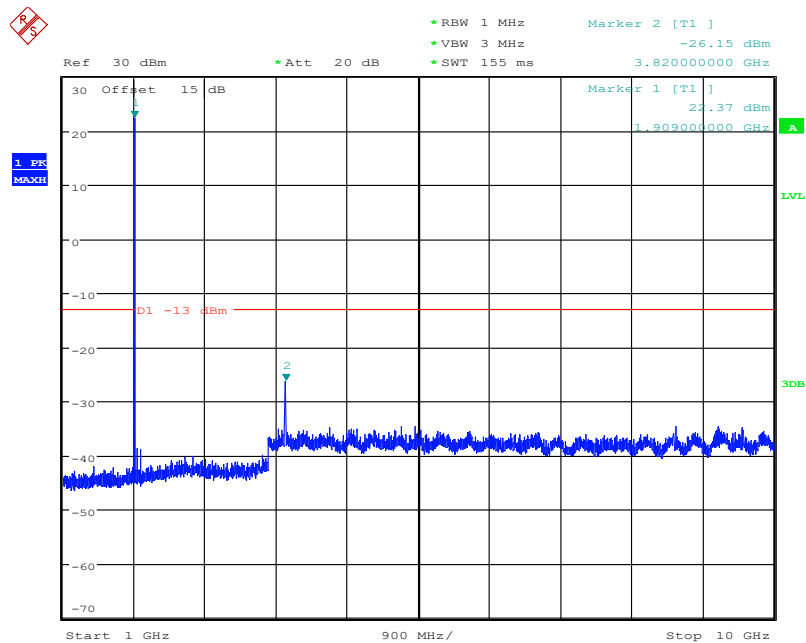
8PSK, Middle channel, 1880.0 MHz, 10GHz to 20GHz



Date: 23.FEB.2020 02:22:56

8PSK, High channel, 1909.8 MHz, 30MHz to 1GHz

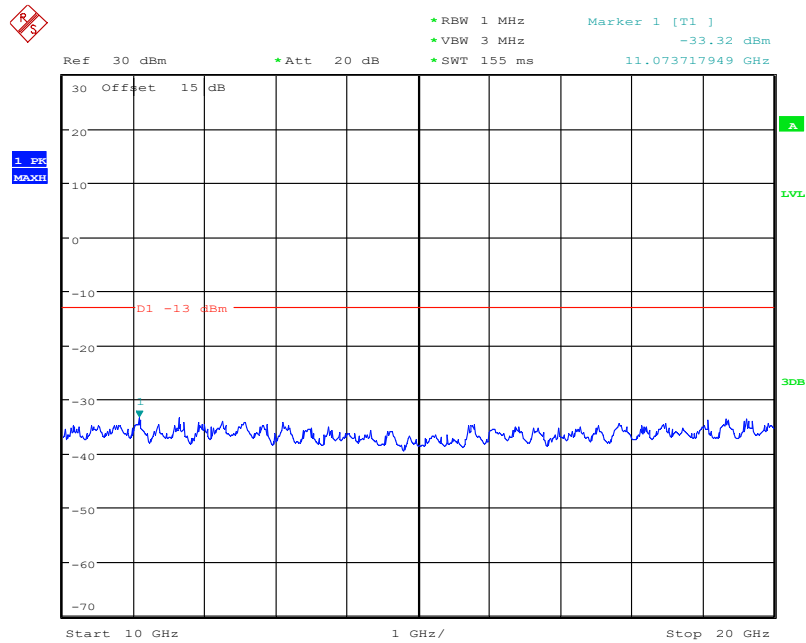
Report No.:B19W50598-WWAN_Rev1



Date: 23.FEB.2020 02:23:11

8PSK, High channel, 1909.8 MHz, 1GHz to 10GHz

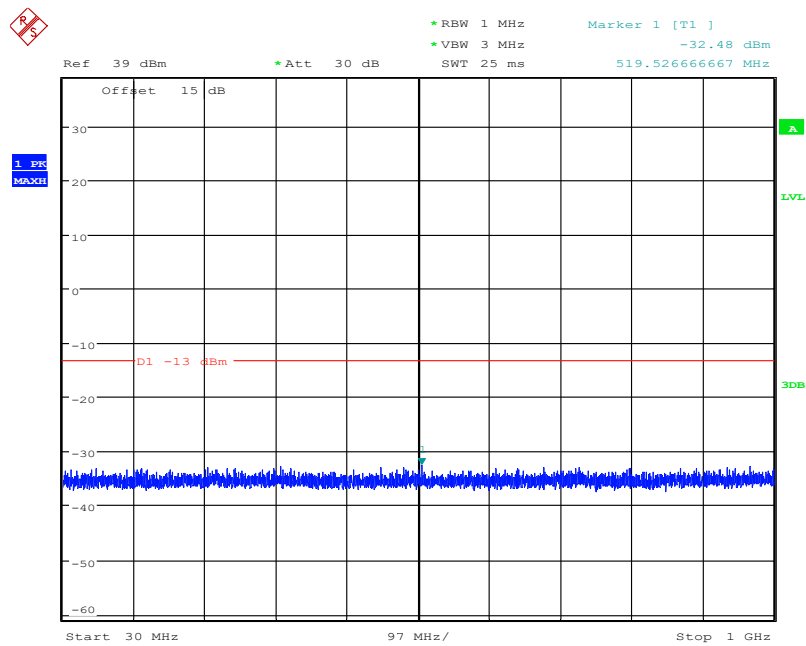
Note: The strong emission shown is the carrier signal



Date: 22.FEB.2020 09:29:19

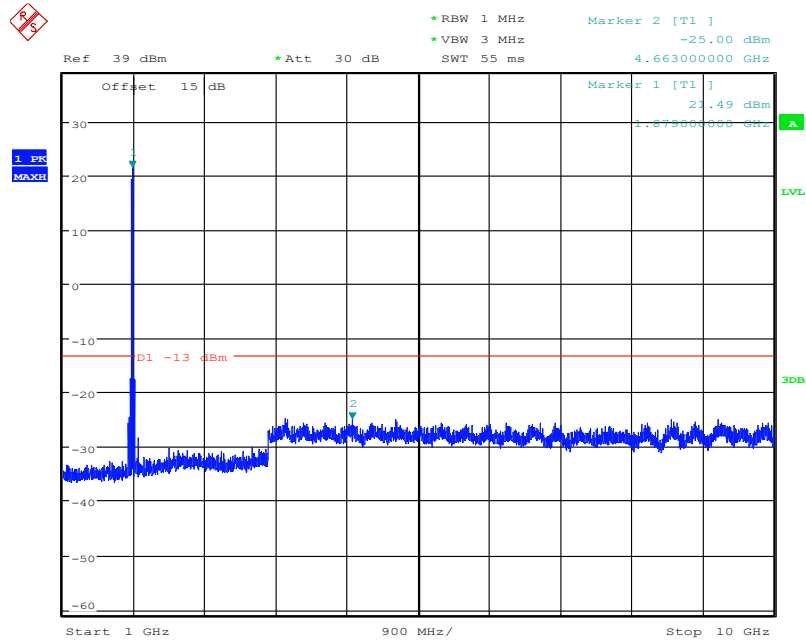
8PSK, High channel, 1909.8 MHz, 10GHz to 20GHz

5.3.3 WCDMA Band 2 Conducted Spurious Emission Results



Date: 22.FEB.2020 02:33:02

WCDMA Band 2 QPSK Mode Middle Channel, 1880 MHz, 30MHz to 1GHz



Date: 22.FEB.2020 02:32:45

WCDMA Band 2 QPSK Mode Middle Channel, 1880 MHz, 1GHz to 10GHz

Note: The strong emission shown in each case is the carrier signal.

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