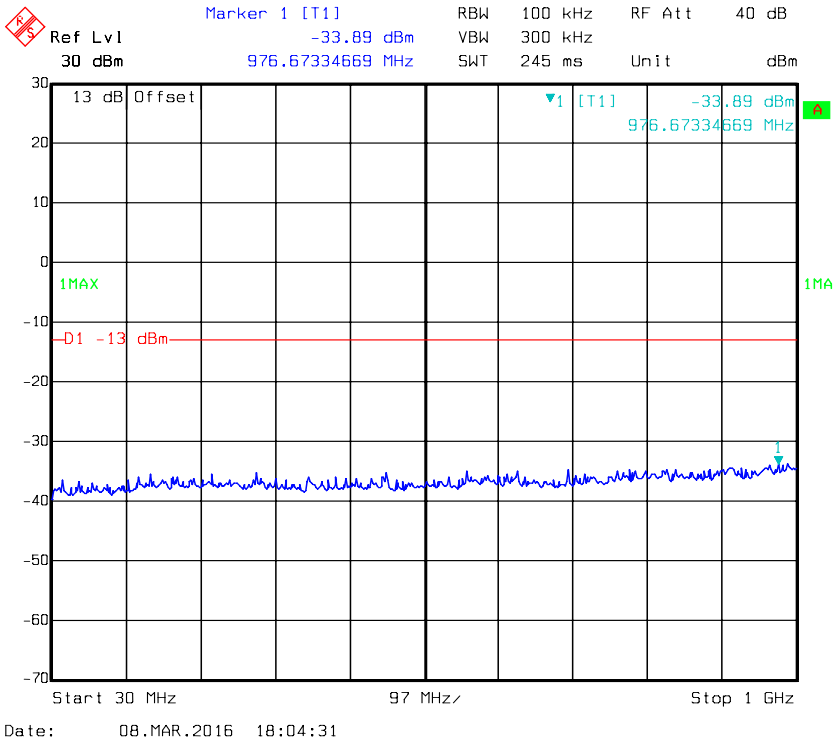
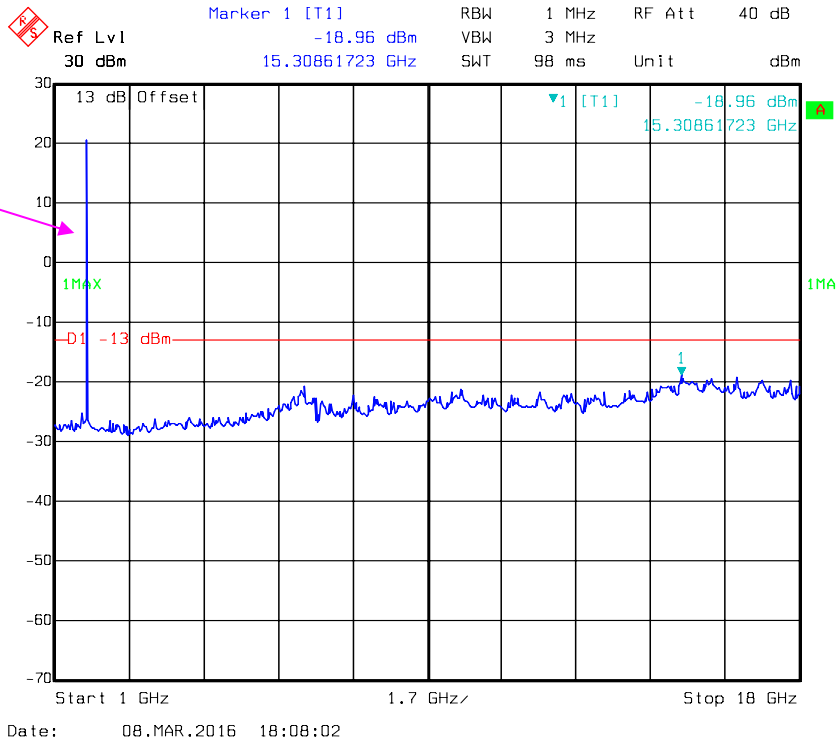
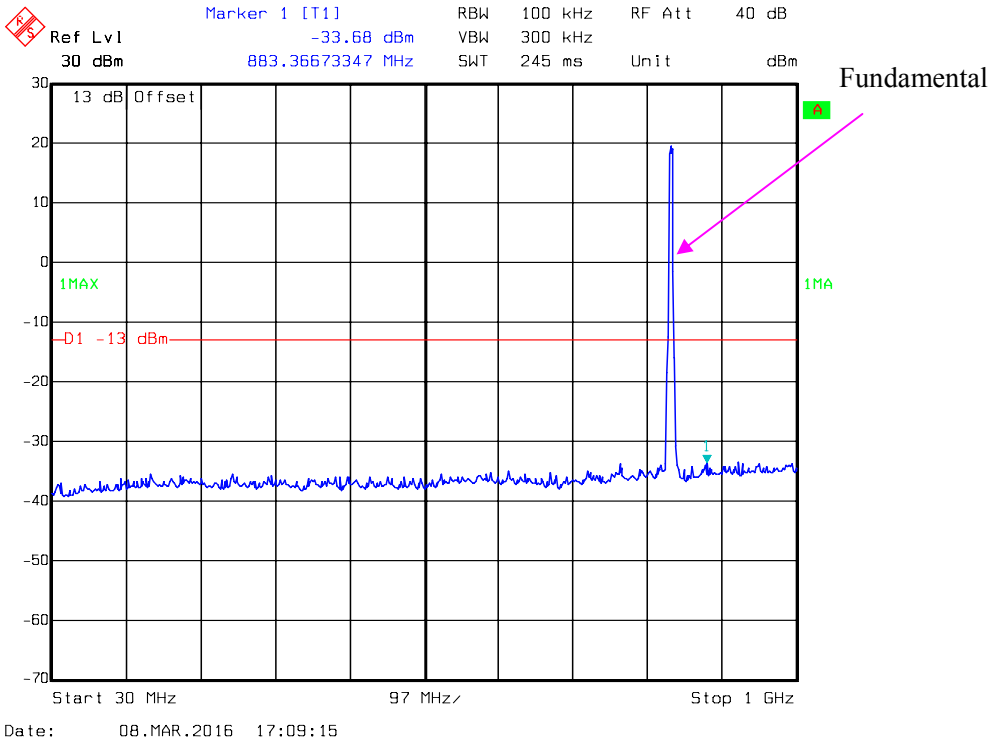
HSUPA Band IV _ Middle Channel

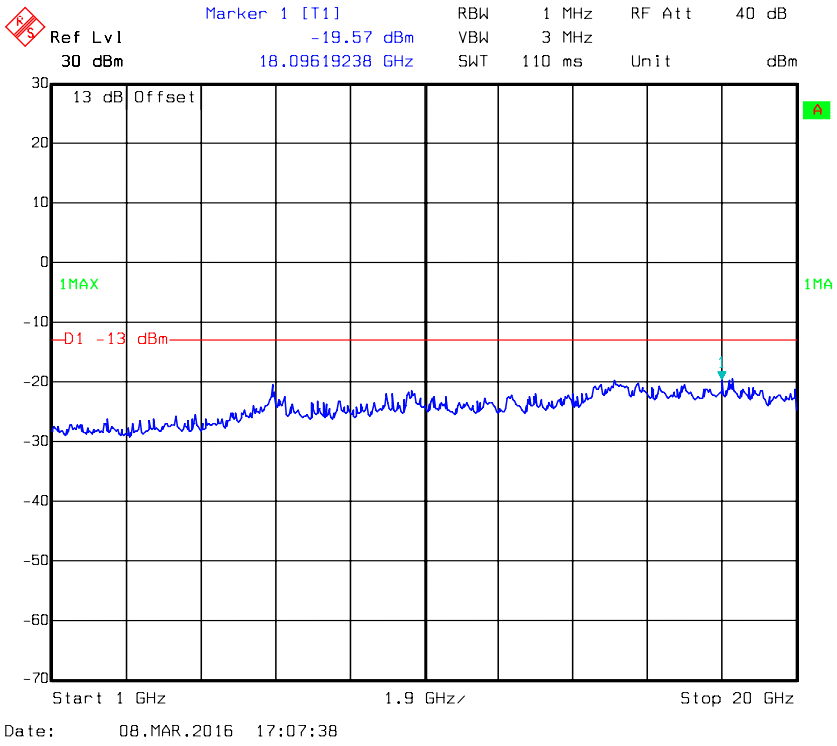




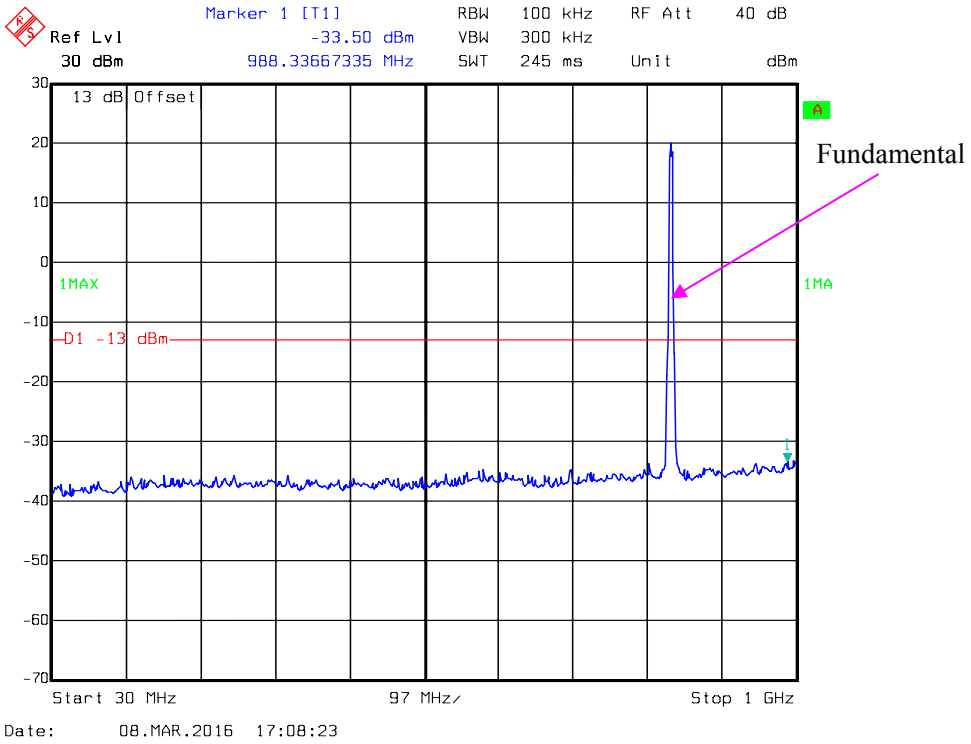
Fundamental

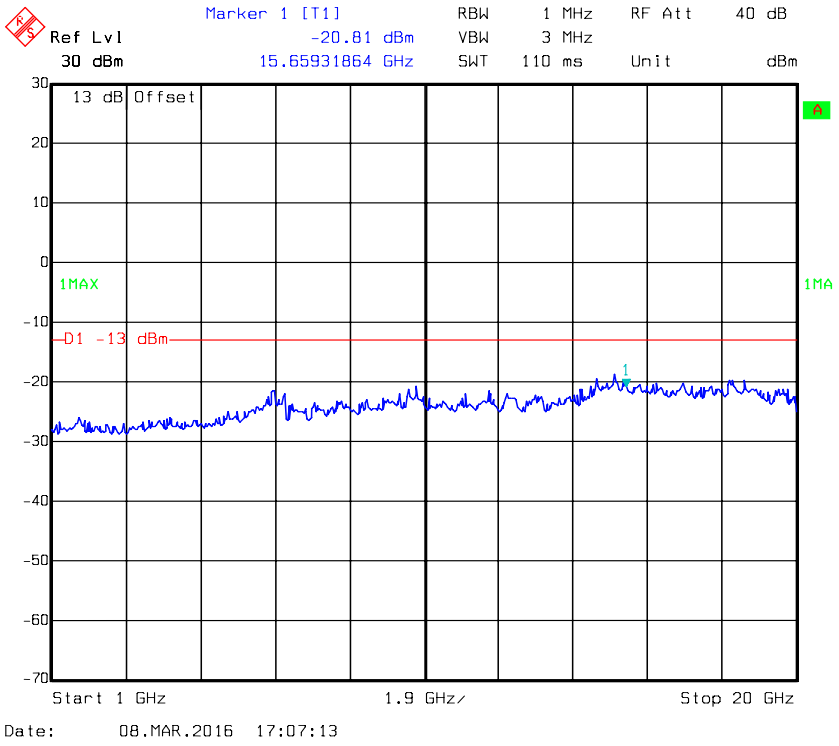
REL99 Band V_ Middle Channel



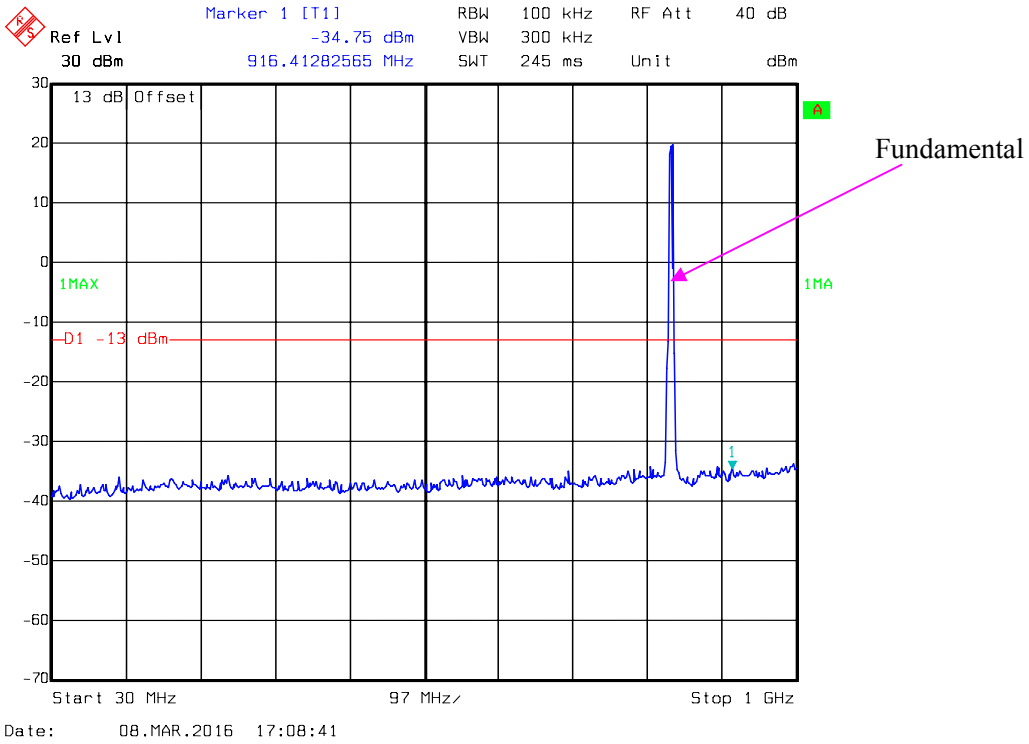


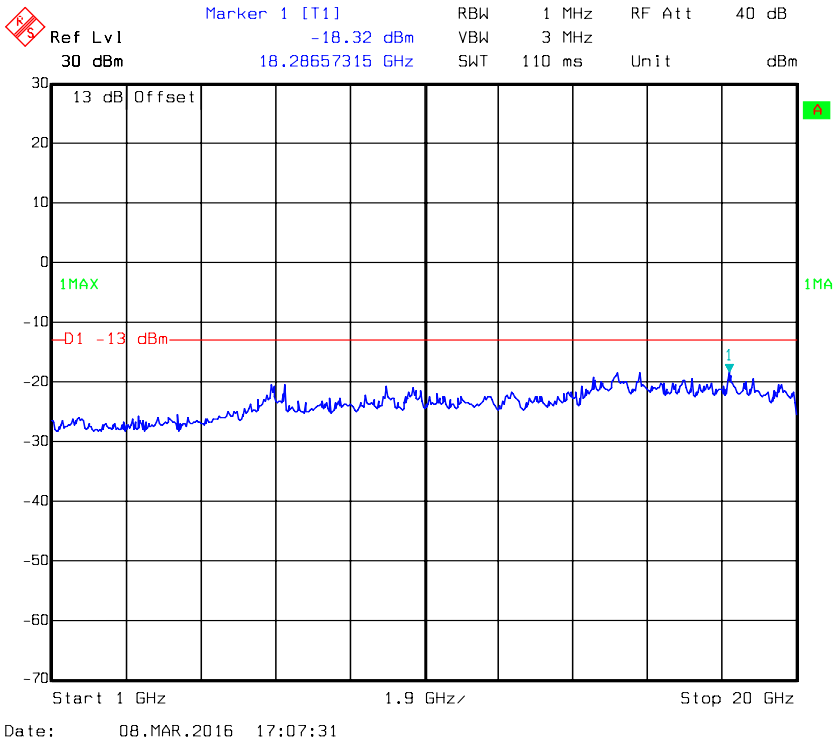
HSDPA Band V_ Middle Channel





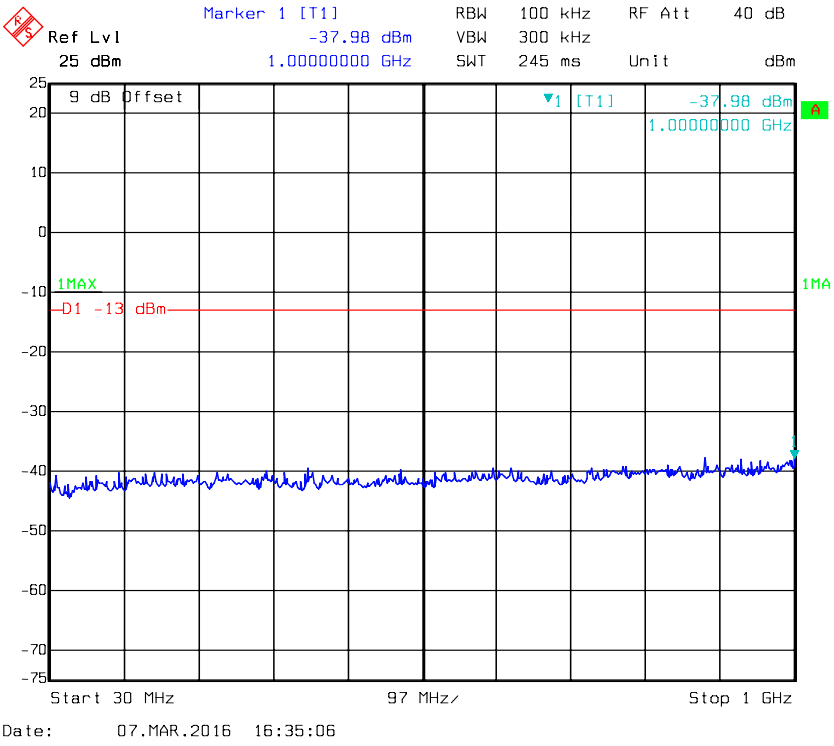
HSUPA Band V_ Middle Channel

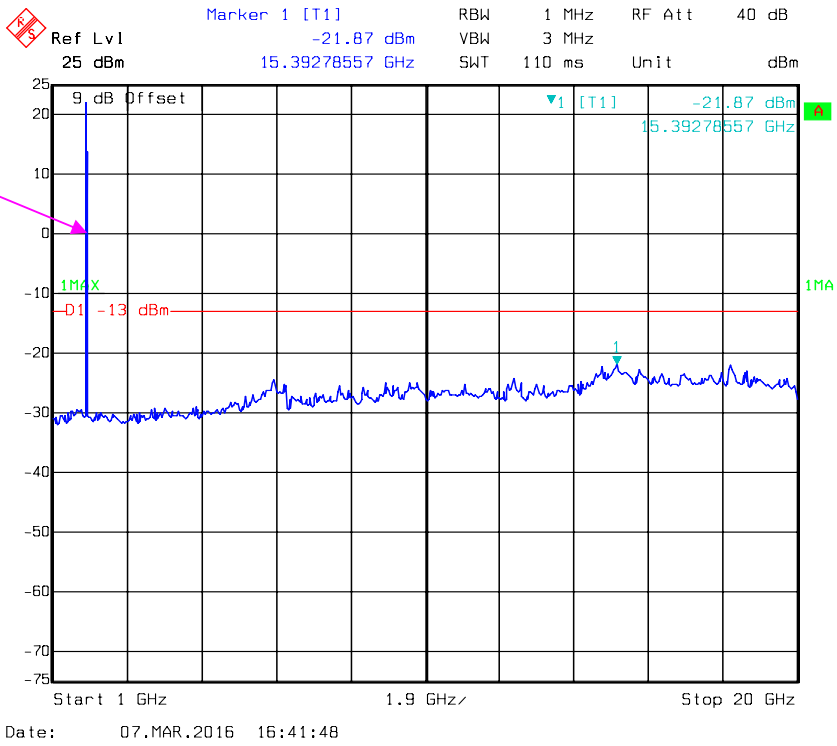




LTE Band 2:

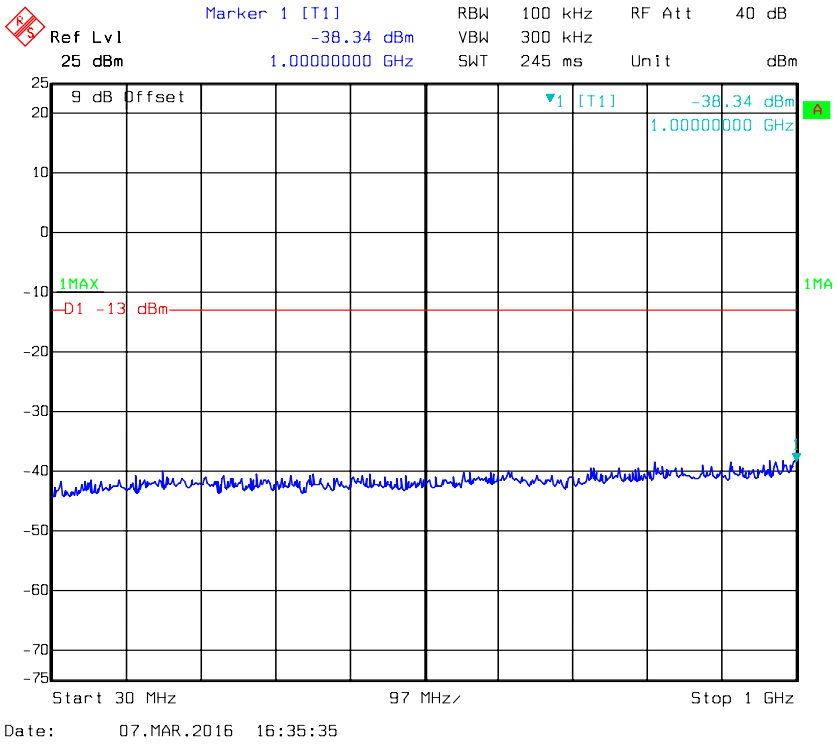
QPSK, Band 2-1.4M _ Middle Channel



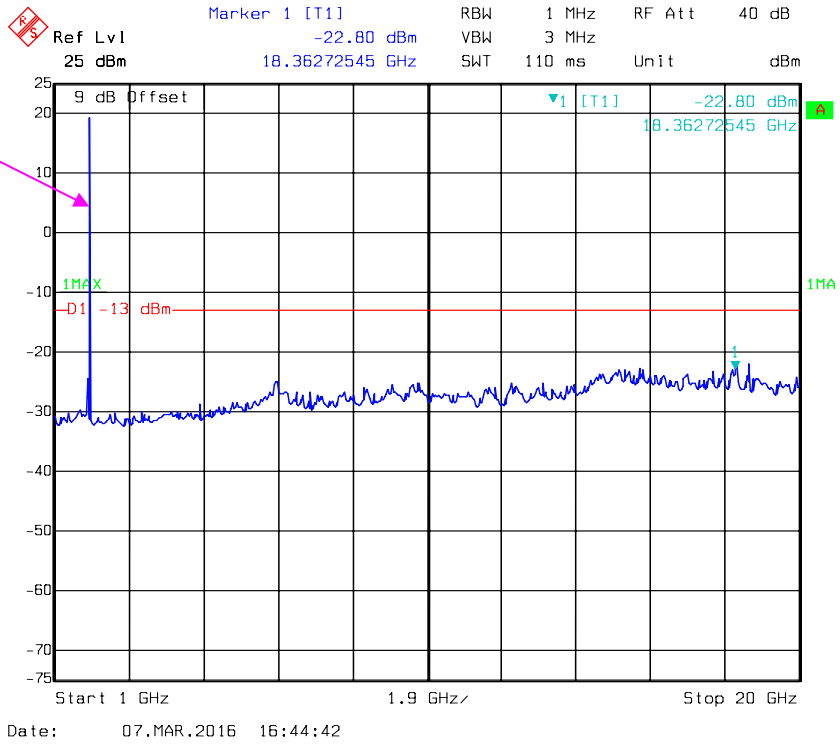


Fundamental

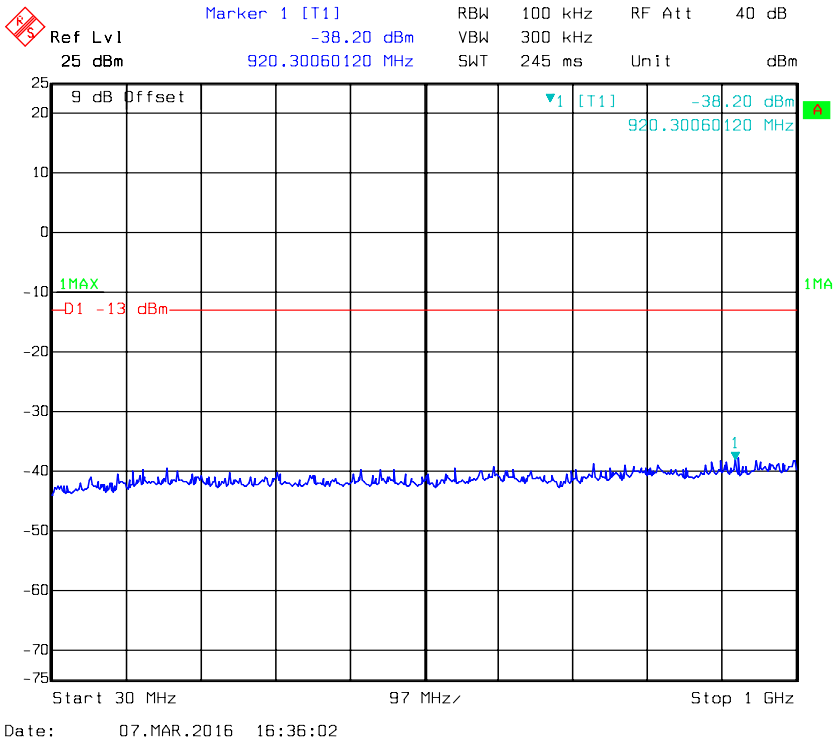
QPSK, Band 2-3M _ Middle Channel

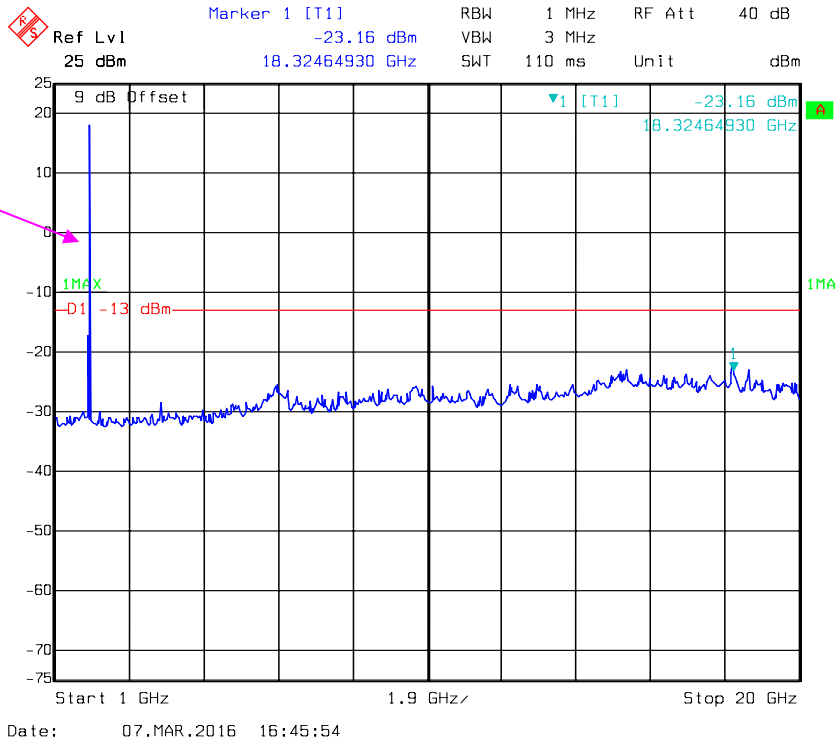


Fundamental



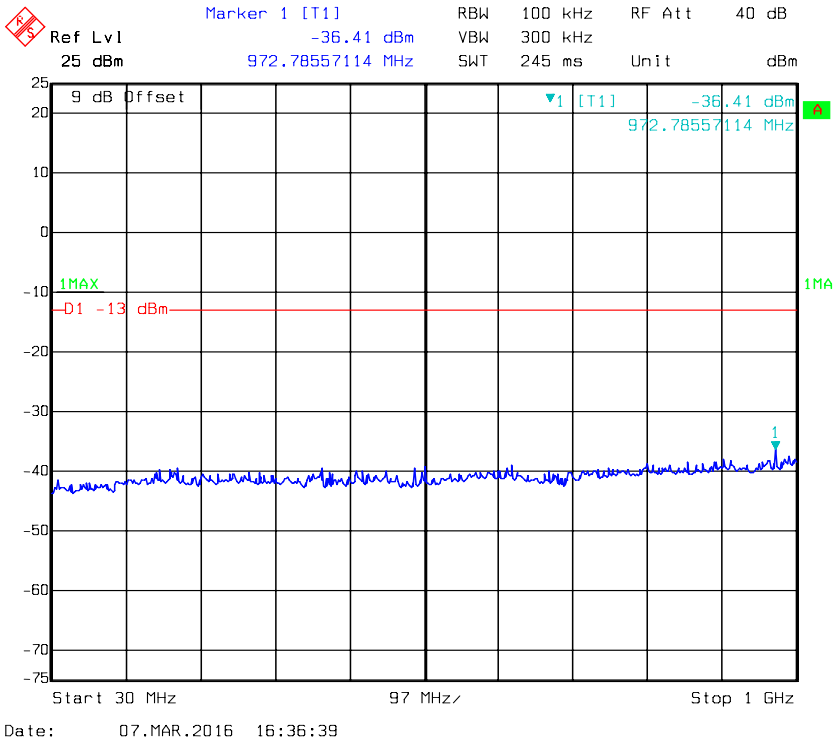
QPSK, Band 2-5M _ Middle Channel

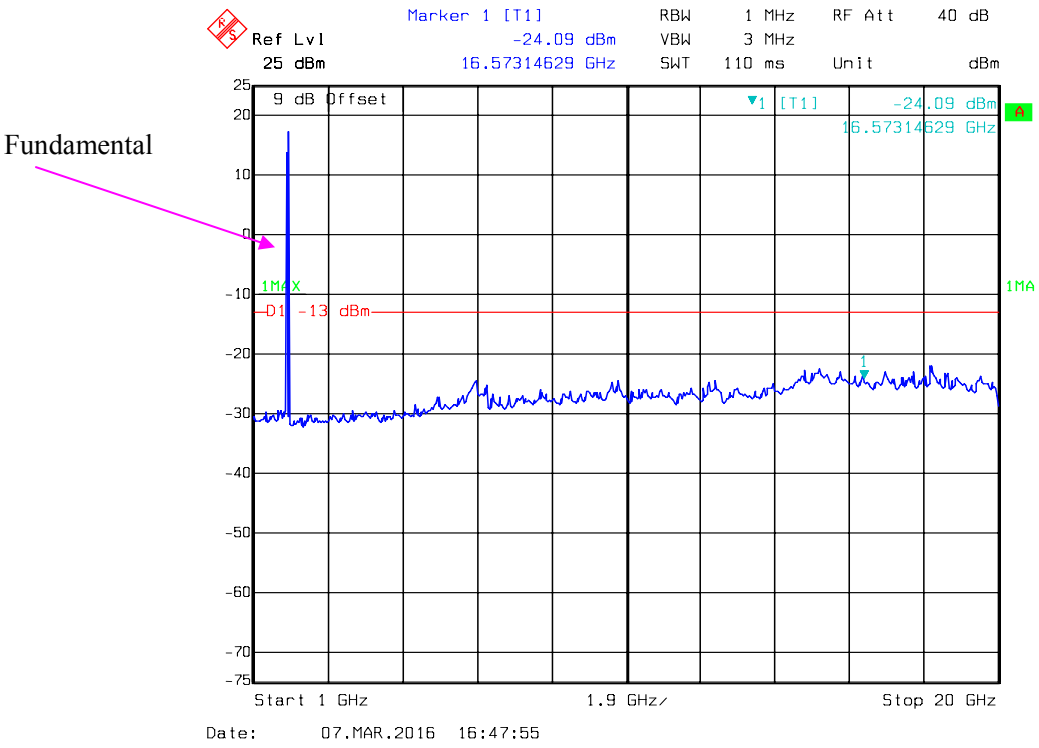




Fundamental

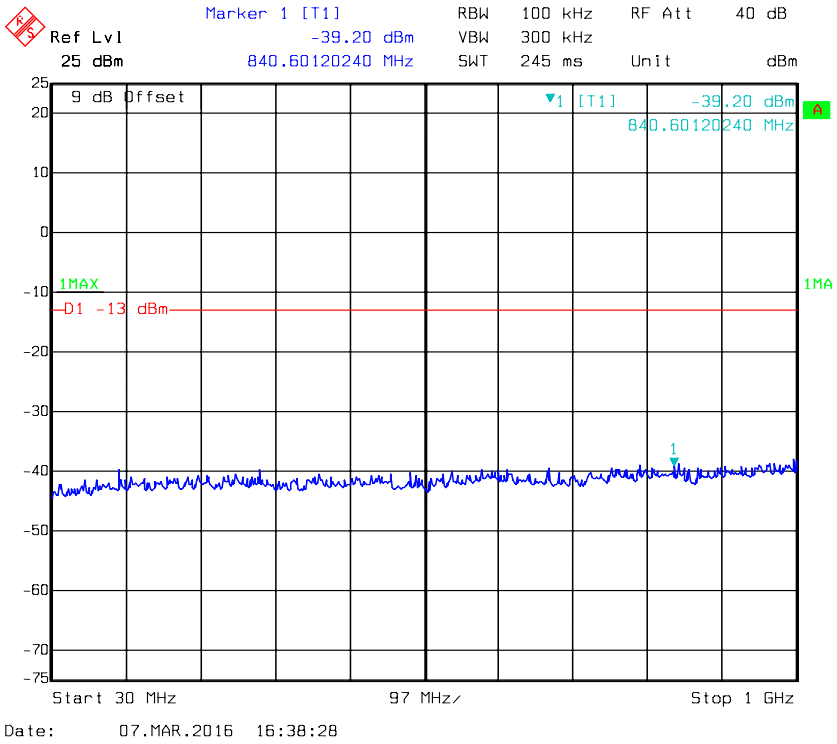
QPSK, Band 2-10M _ Middle Channel

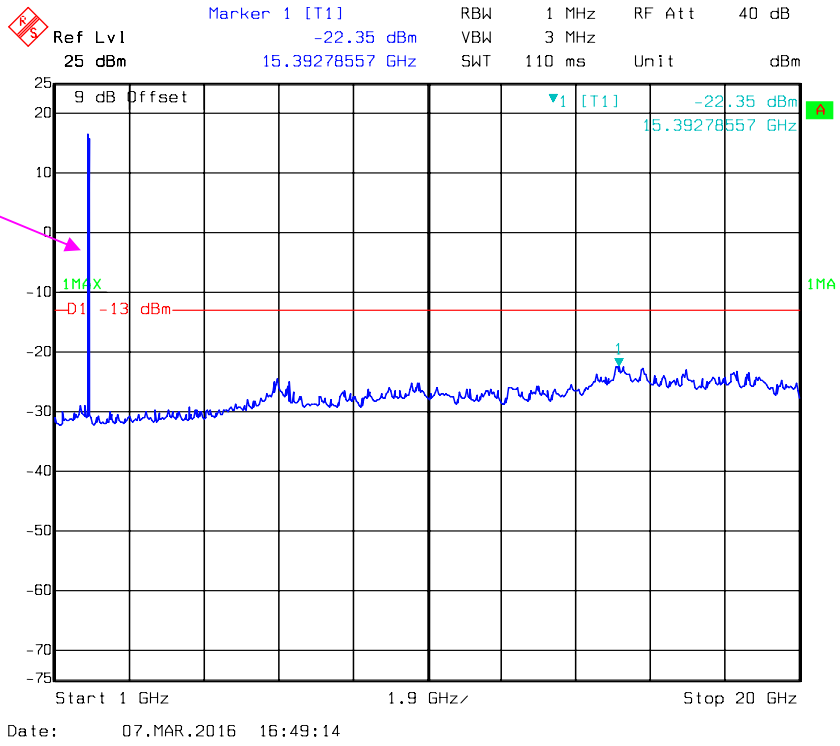




Fundamental

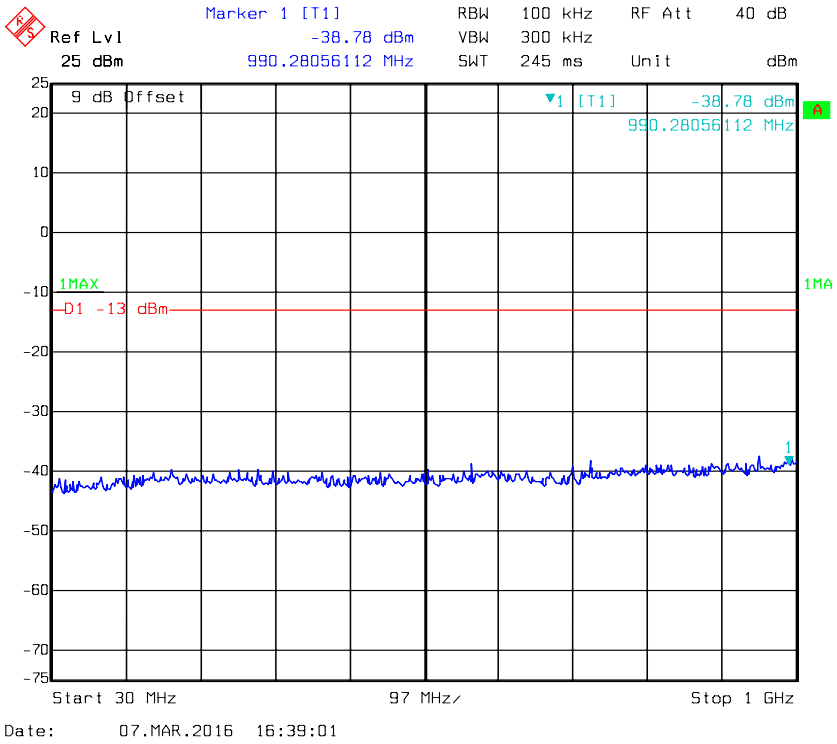
QPSK, Band 2-15M _ Middle Channel

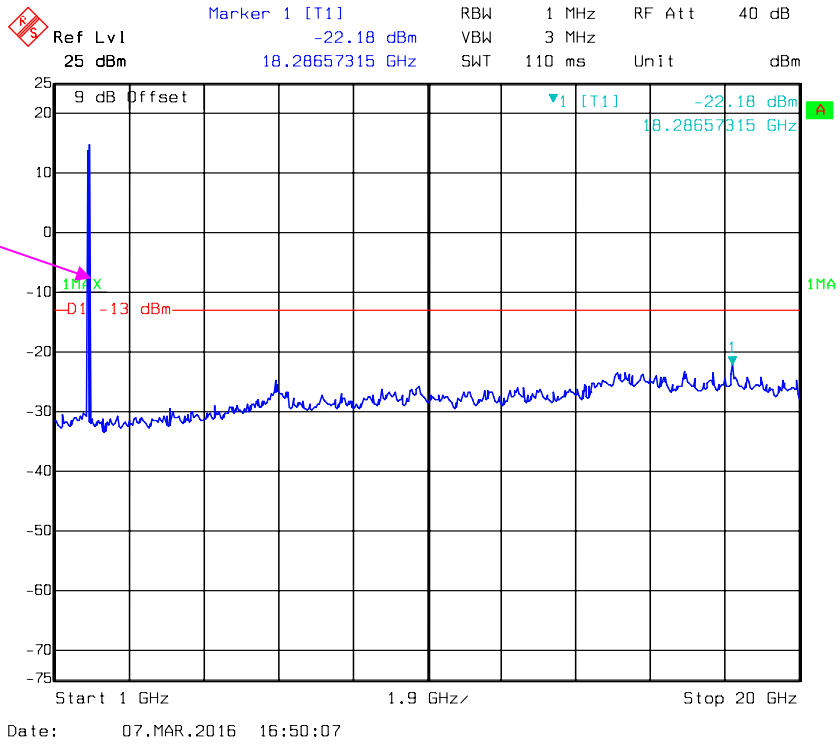




Fundamental

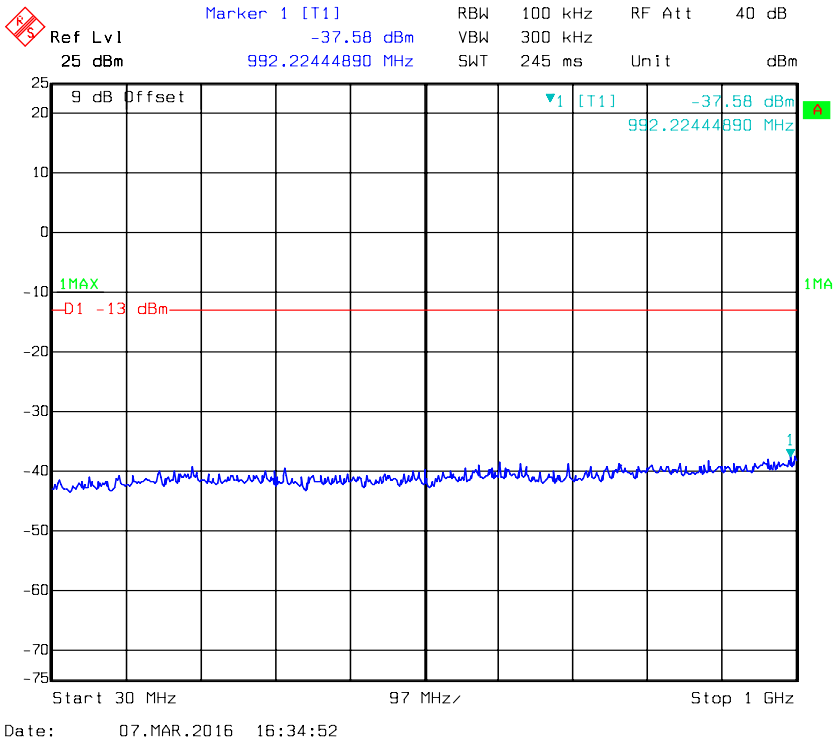
QPSK, Band 2-20M _ Middle Channel



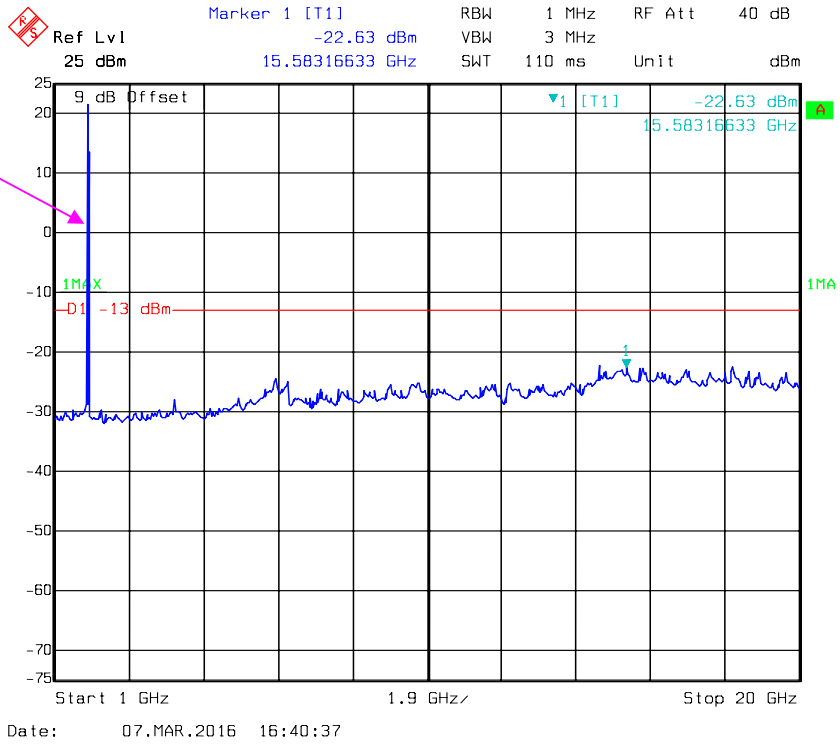


Fundamental

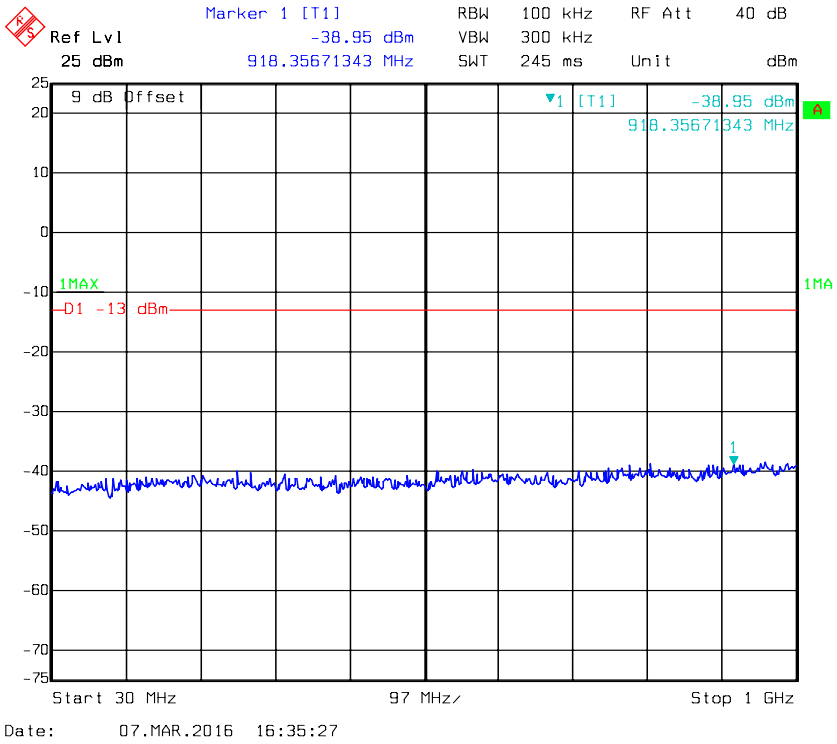
16-QAM, Band 2-1.4M _ Middle Channel



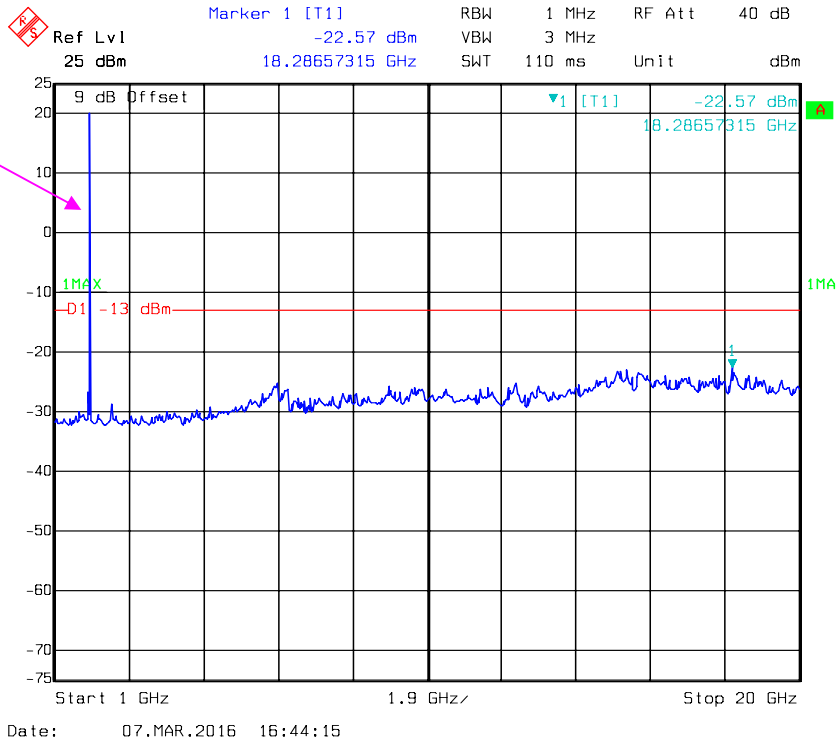
Fundamental



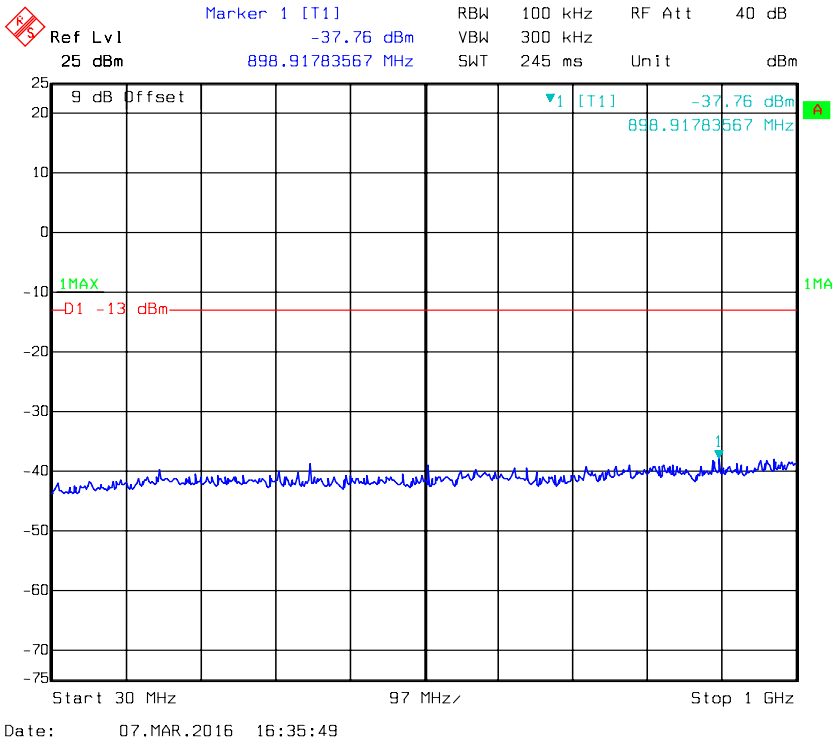
16-QAM, Band 2-3M _ Middle Channel

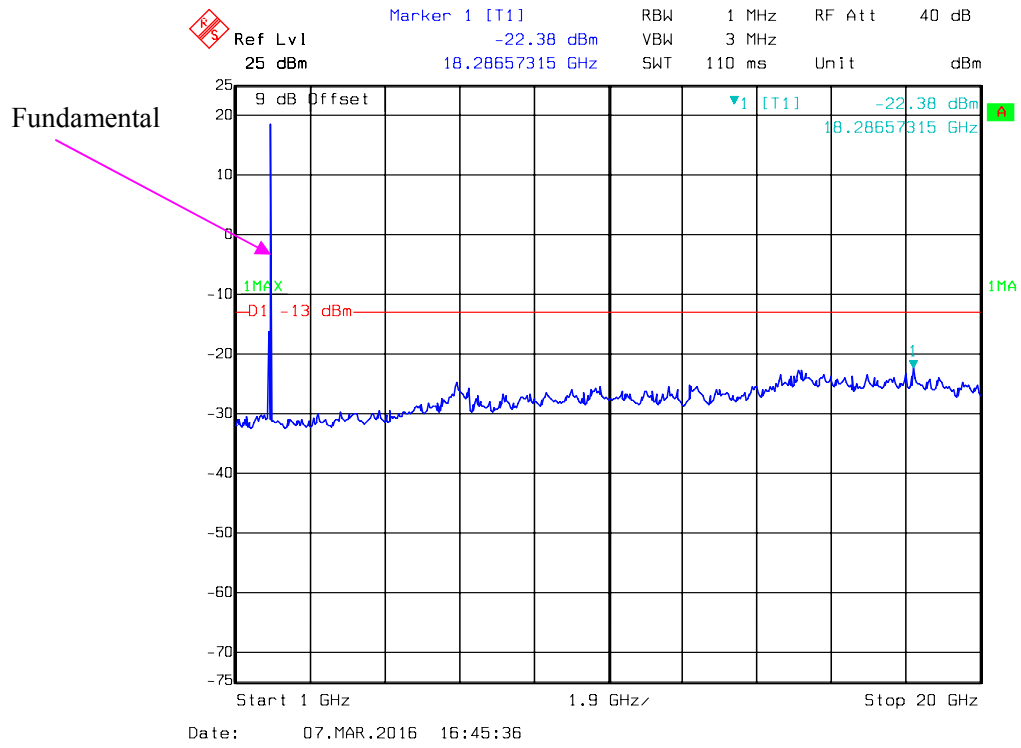


Fundamental

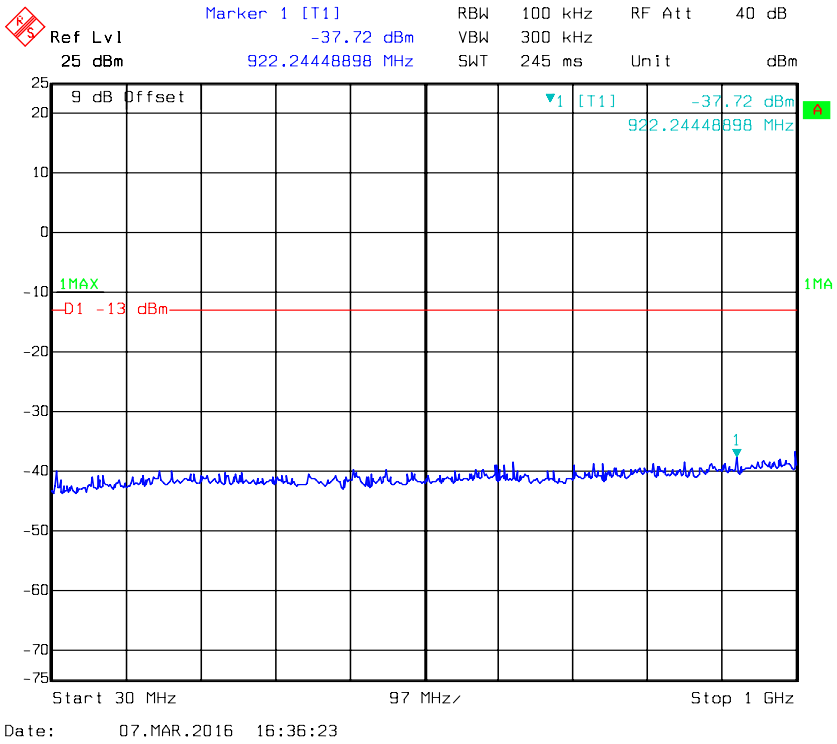


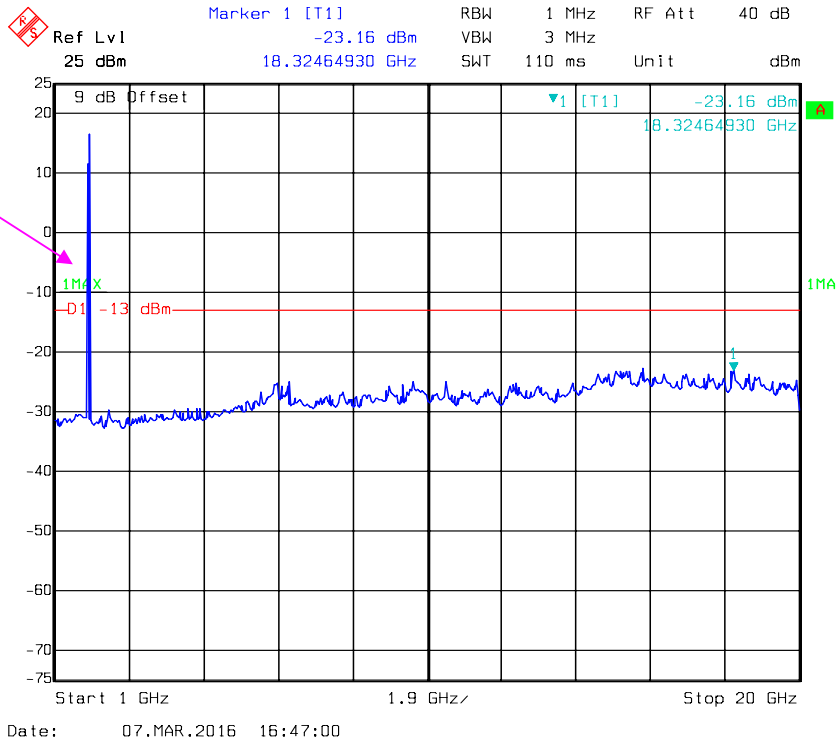
16-QAM, Band 2-5M _ Middle Channel





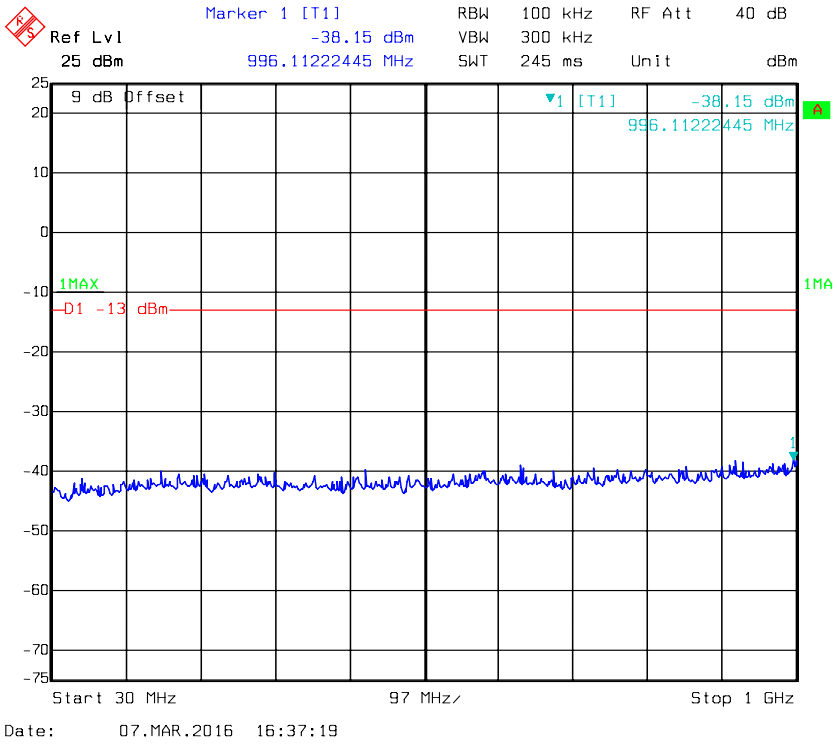
16-QAM, Band 2-10M _ Middle Channel

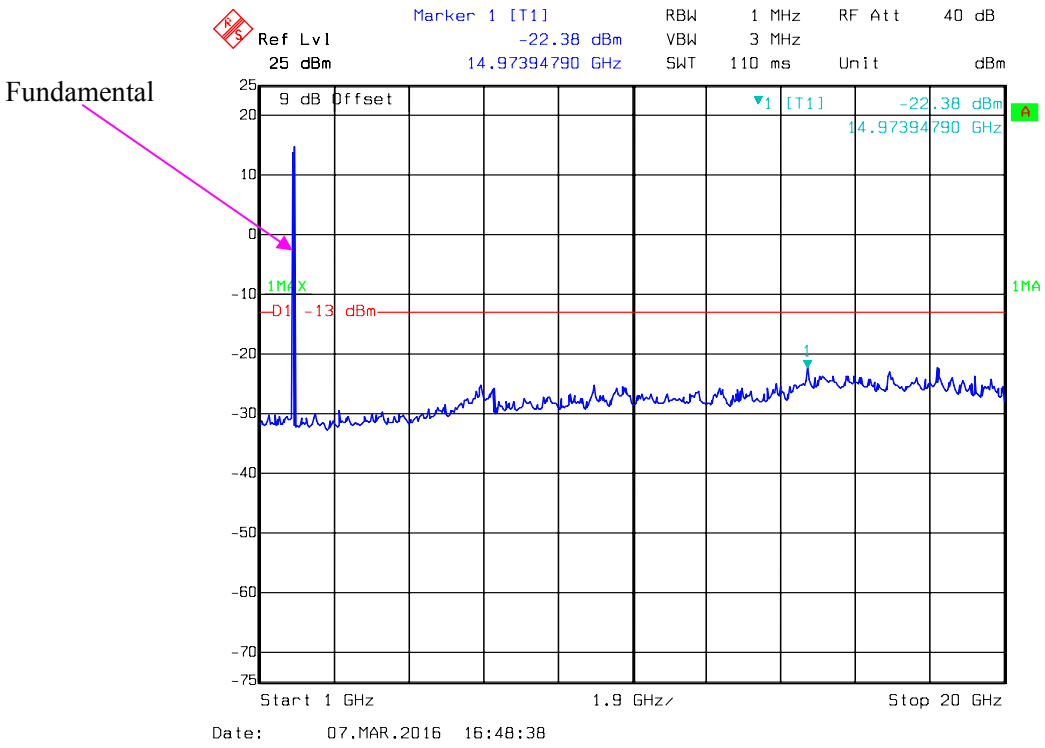




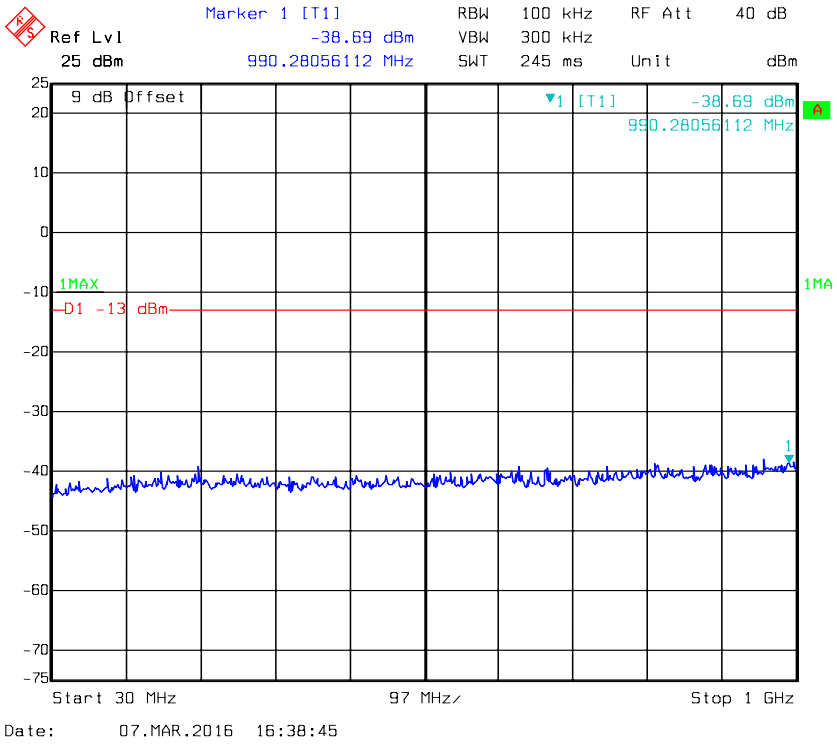
Fundamental

16-QAM, Band 2-15M _ Middle Channel

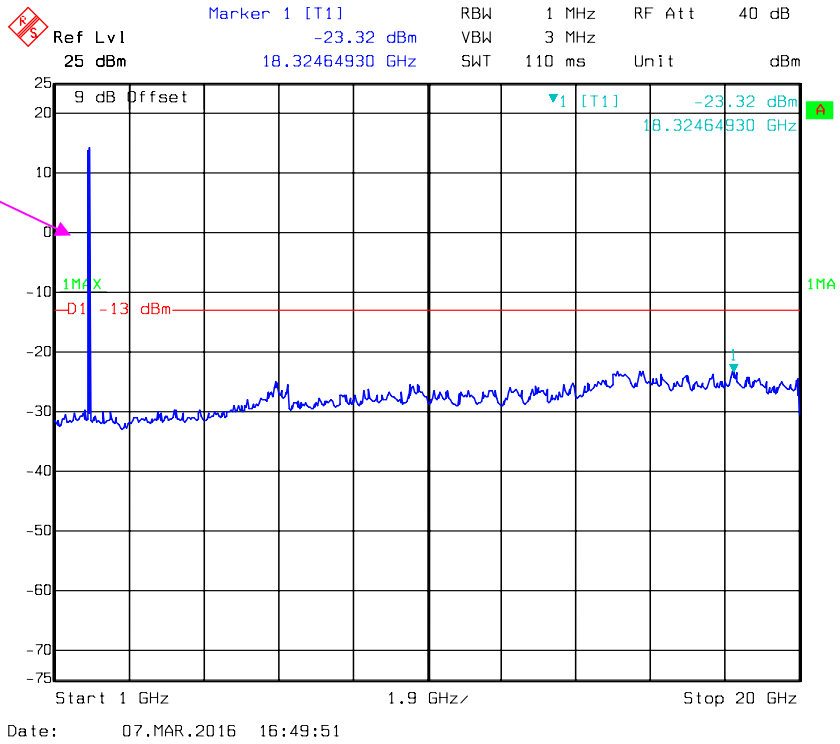




16-QAM, Band 2-20M _ Middle Channel

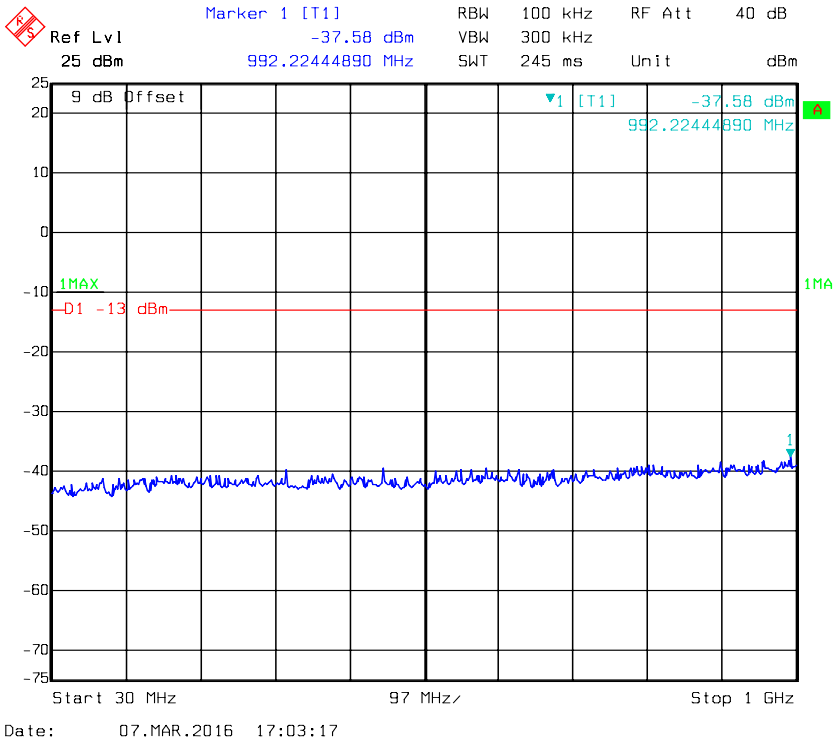


Fundamental

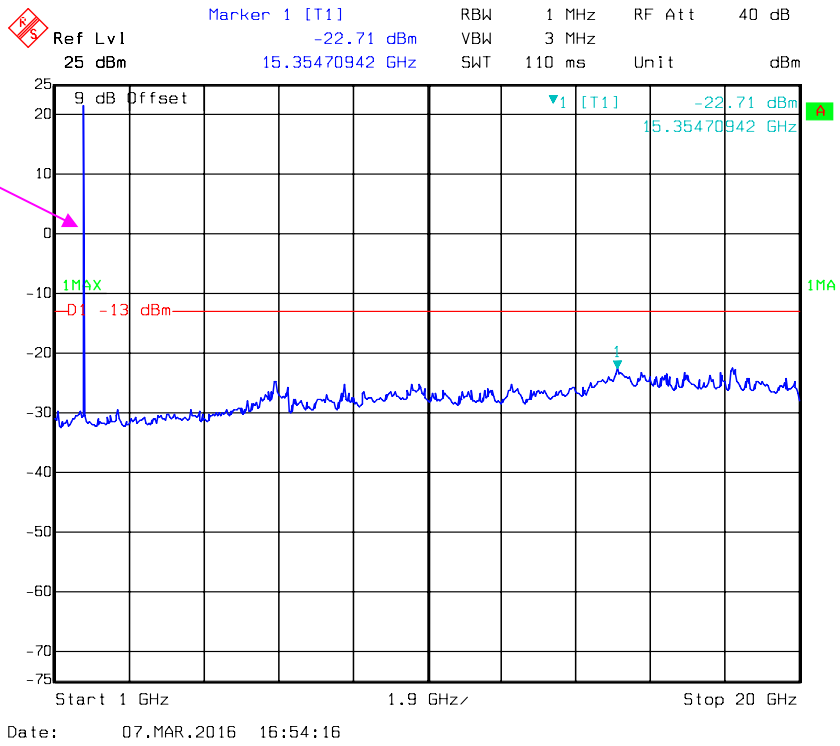


LTE Band 4:

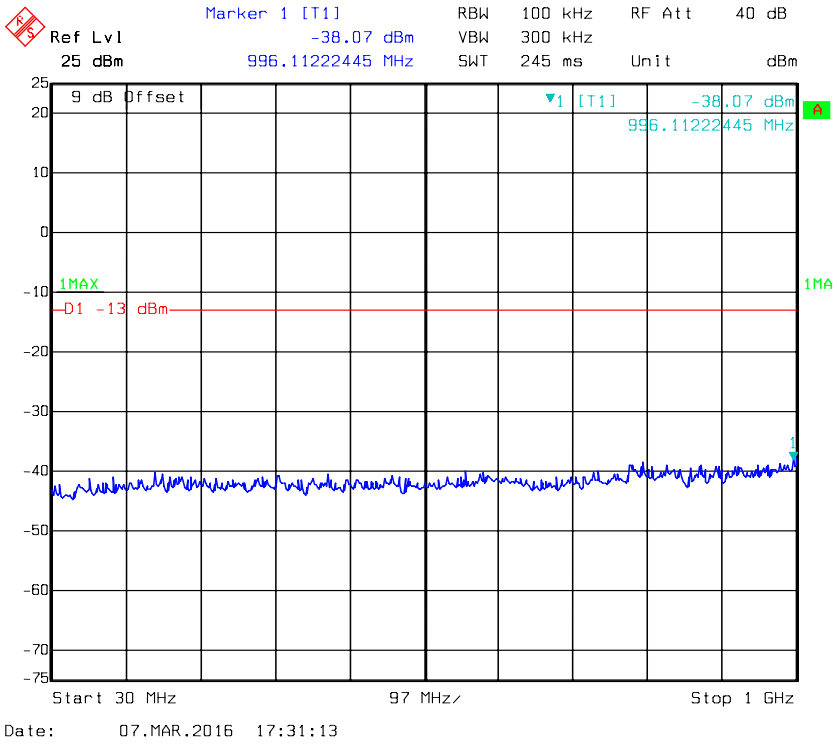
QPSK, Band 4-1.4M _ Middle Channel

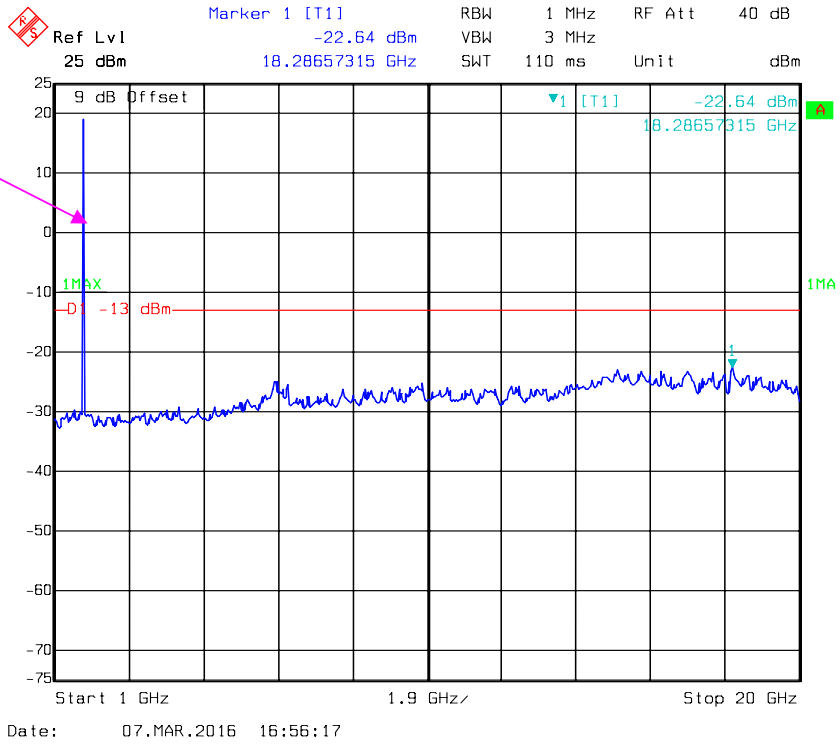


Fundamental



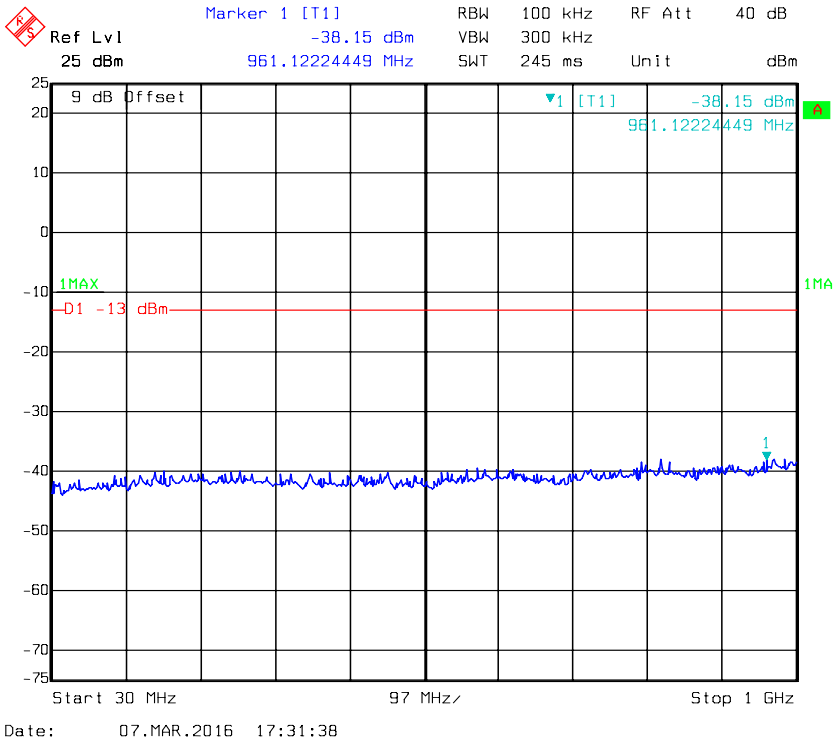
QPSK, Band 4-3M _ Middle Channel



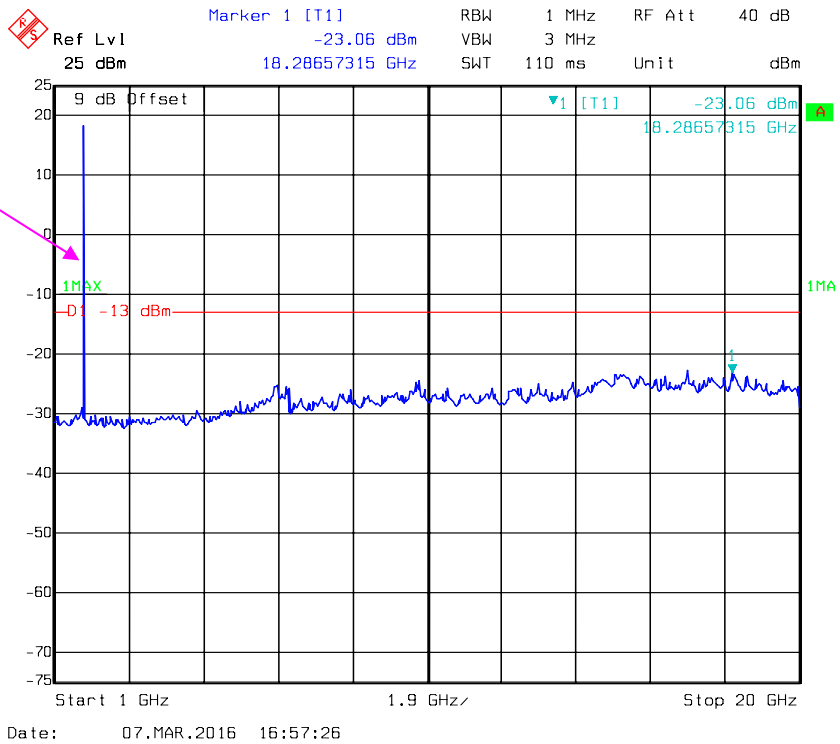


Fundamental

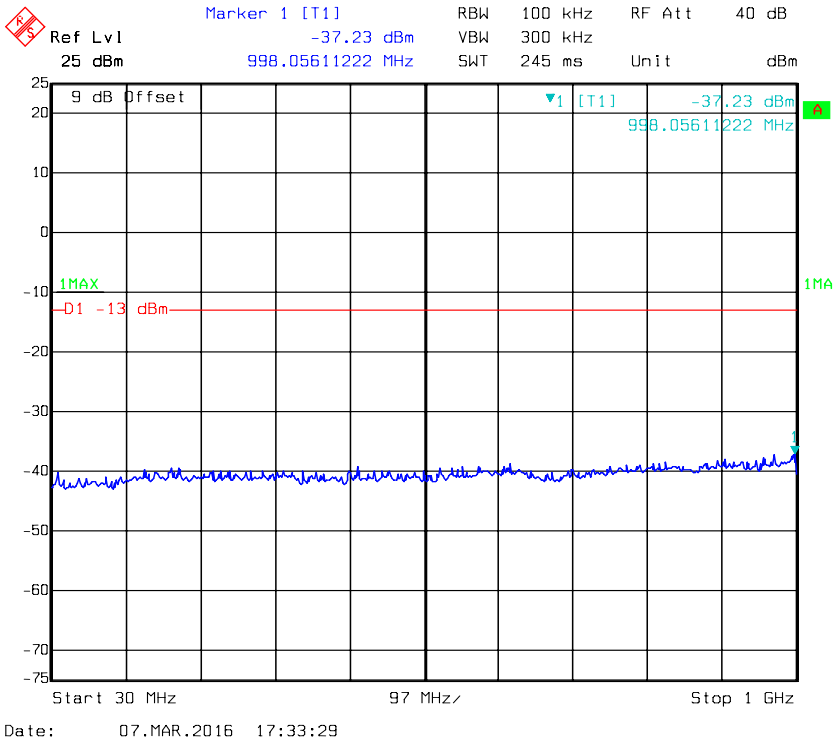
QPSK, Band 4-5M _ Middle Channel

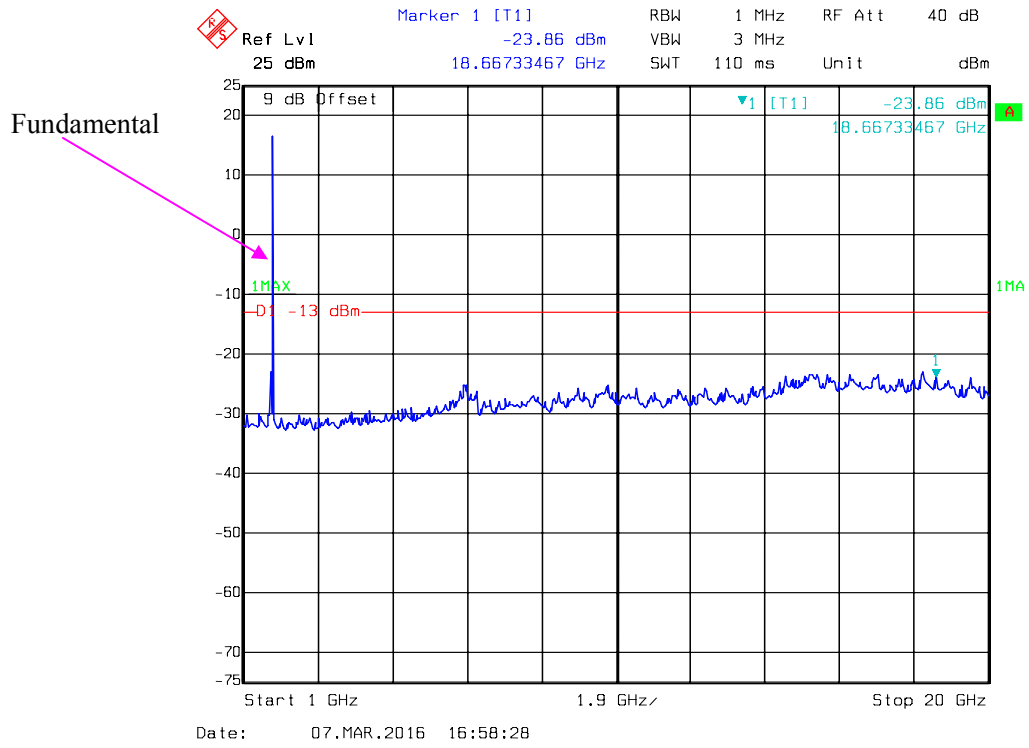


Fundamental

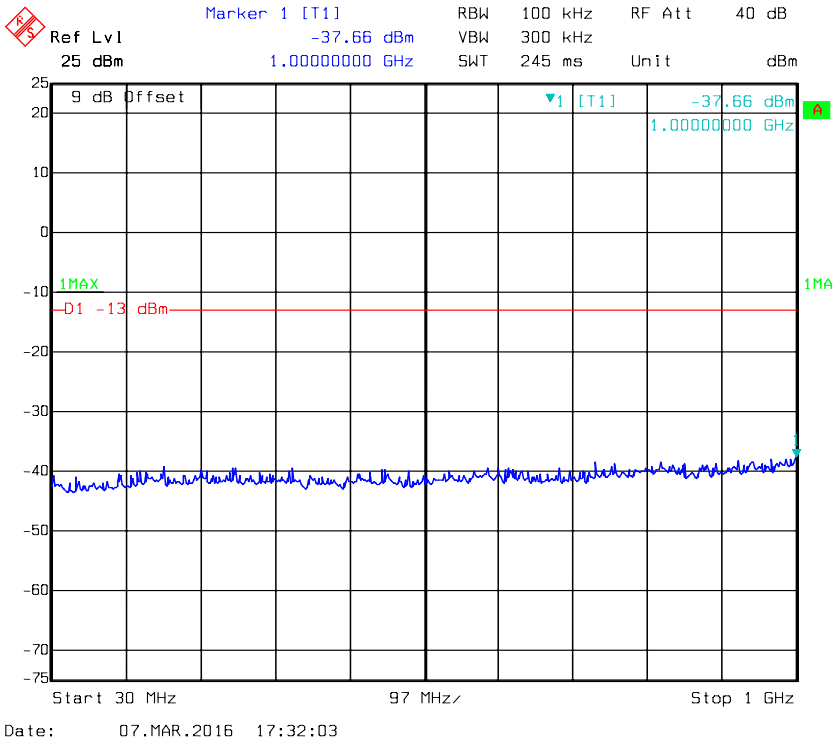


QPSK, Band 4-10M _ Middle Channel

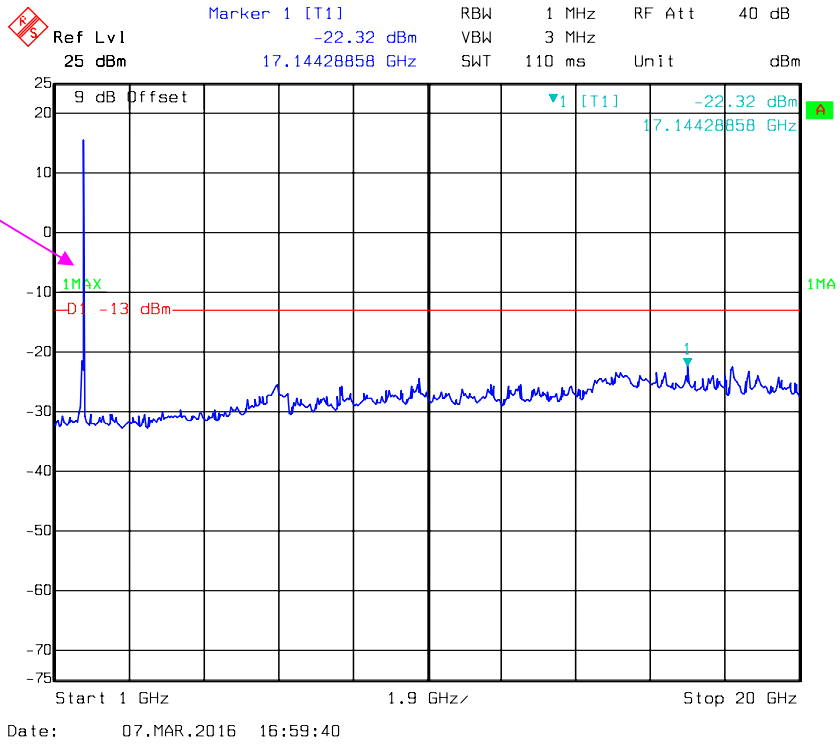




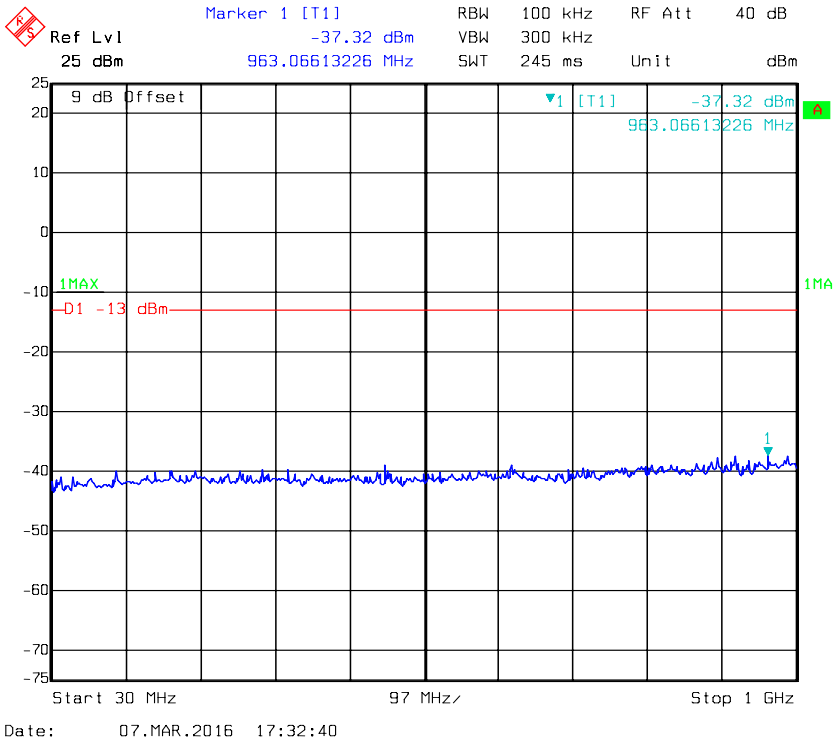
QPSK, Band 4-15M _ Middle Channel



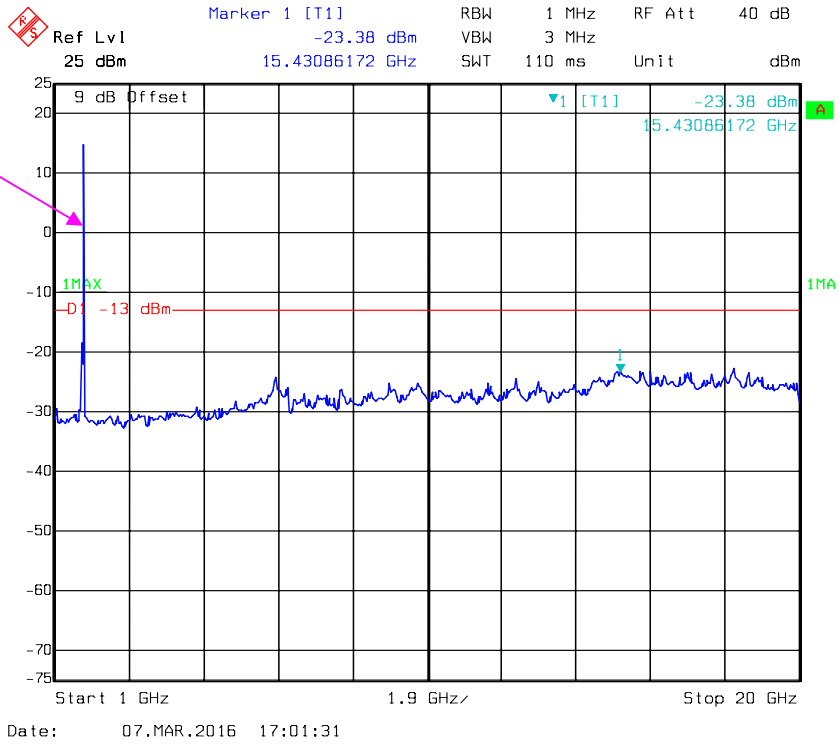
Fundamental



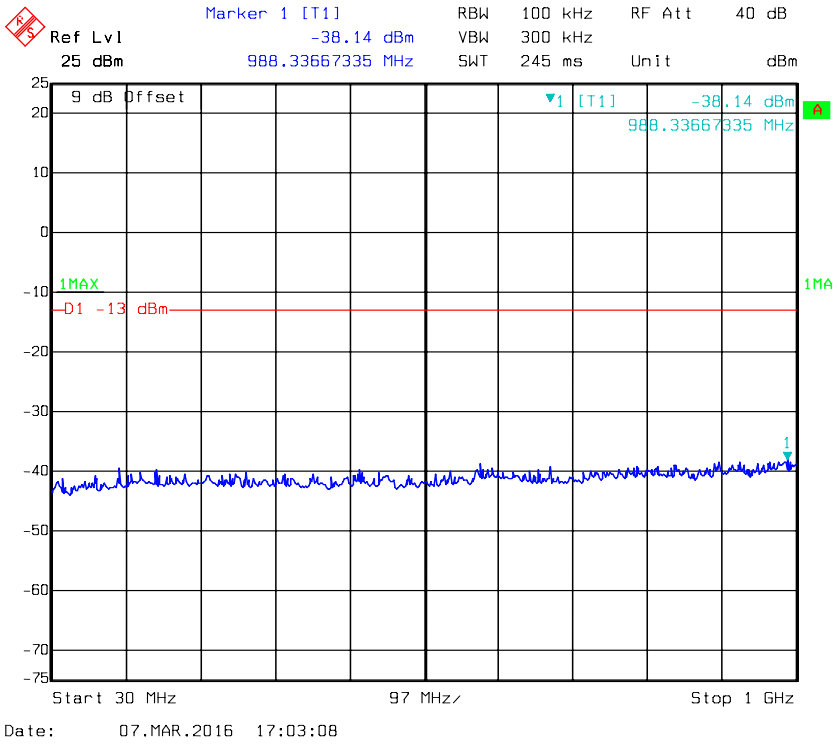
QPSK, Band 4-20M _ Middle Channel



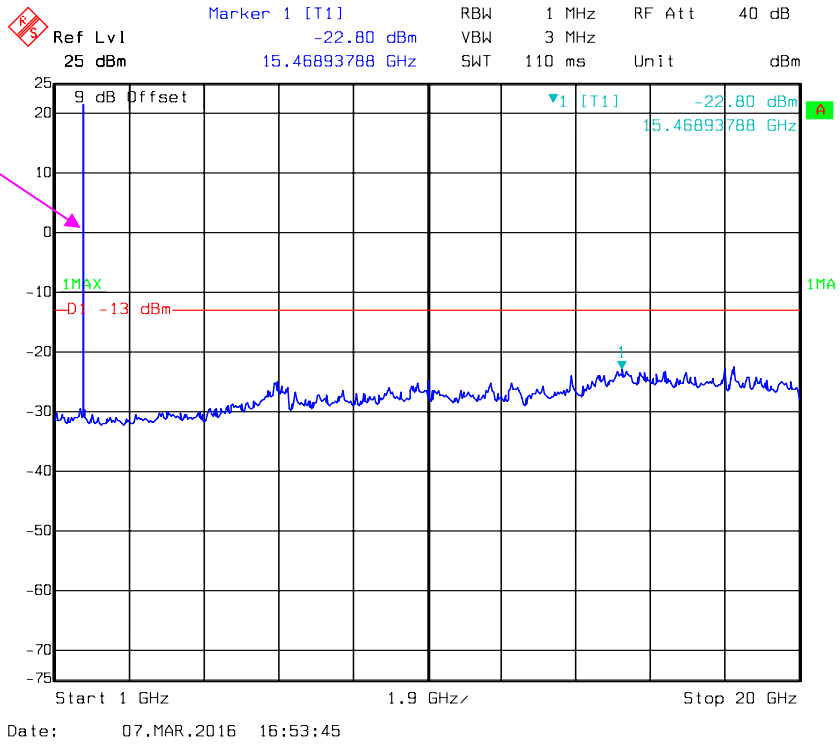
Fundamental



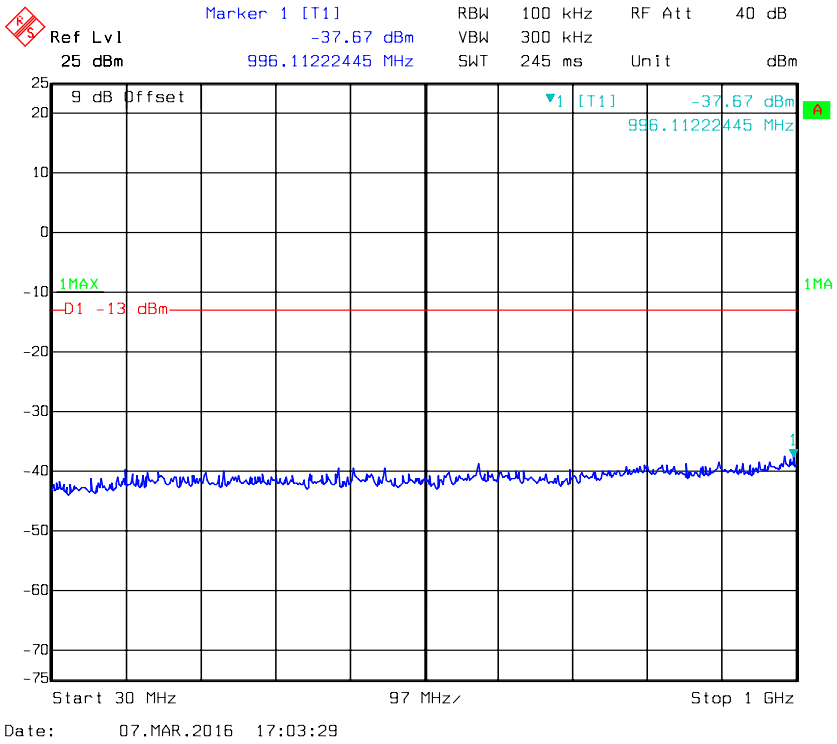
16-QAM, Band 4-1.4M _ Middle Channel



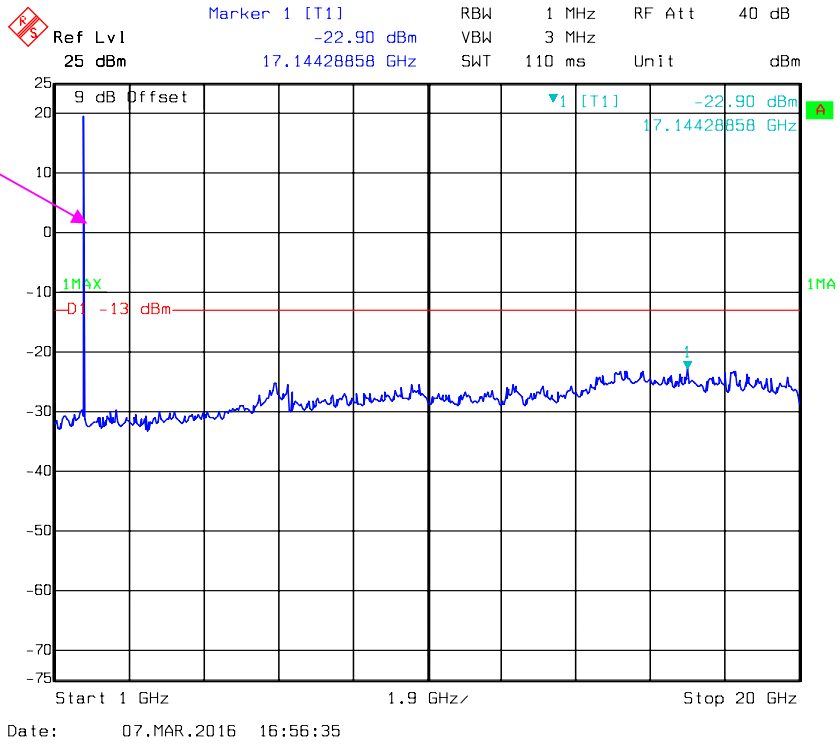
Fundamental



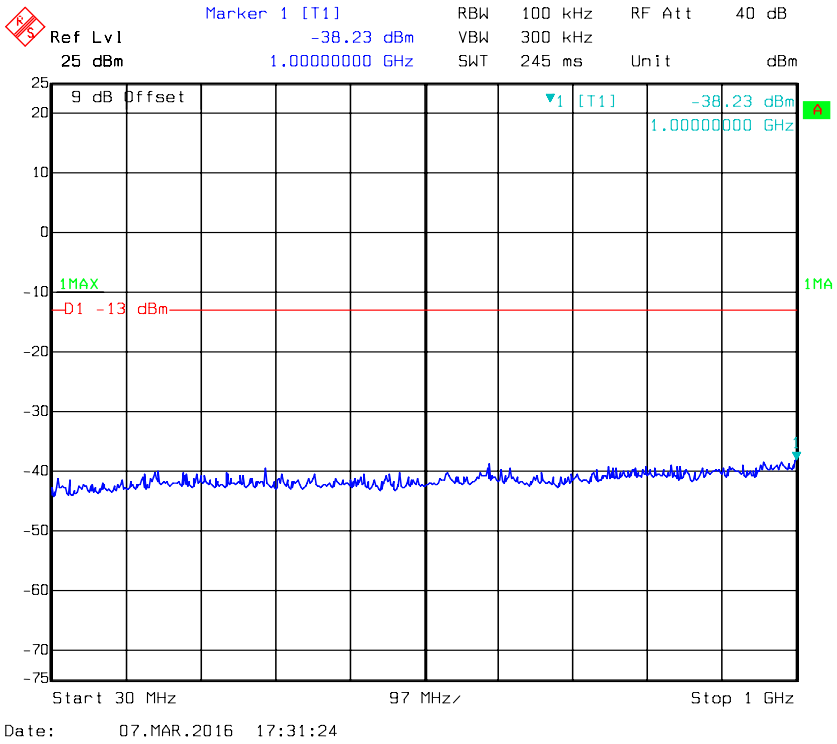
16-QAM, Band 4-3M _ Middle Channel



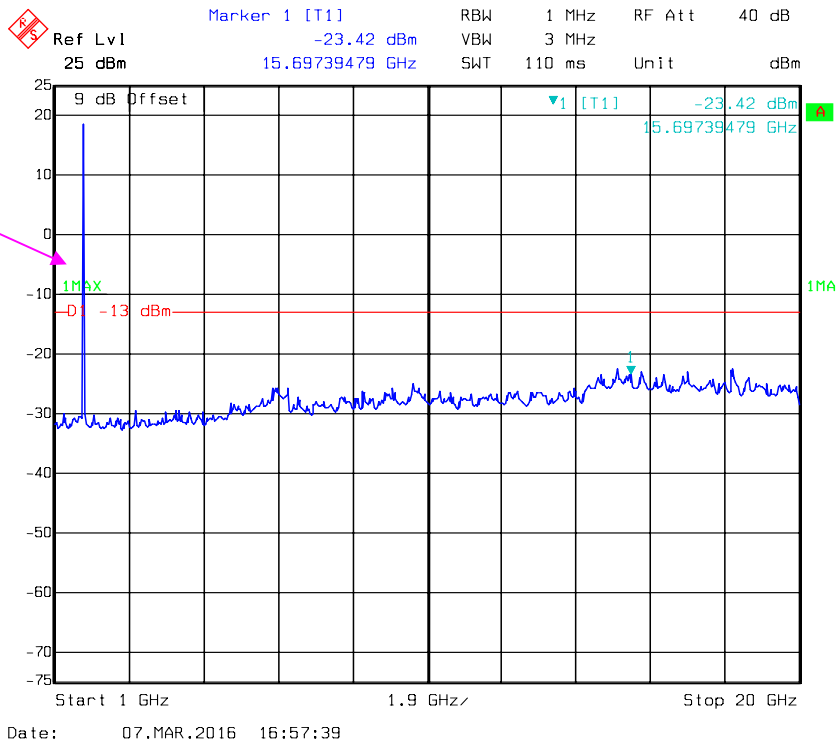
Fundamental



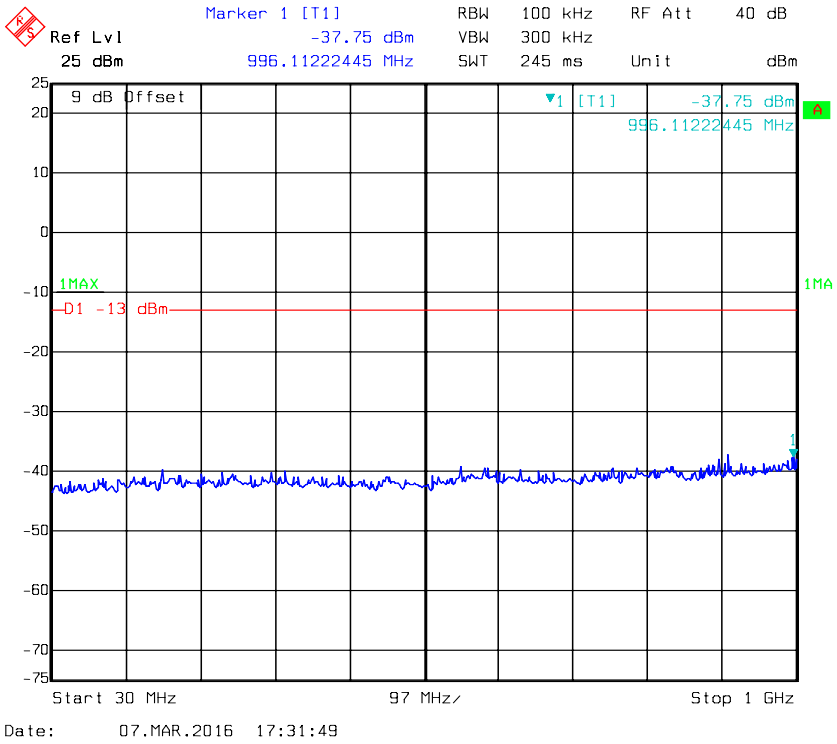
16-QAM, Band 4-5M _ Middle Channel

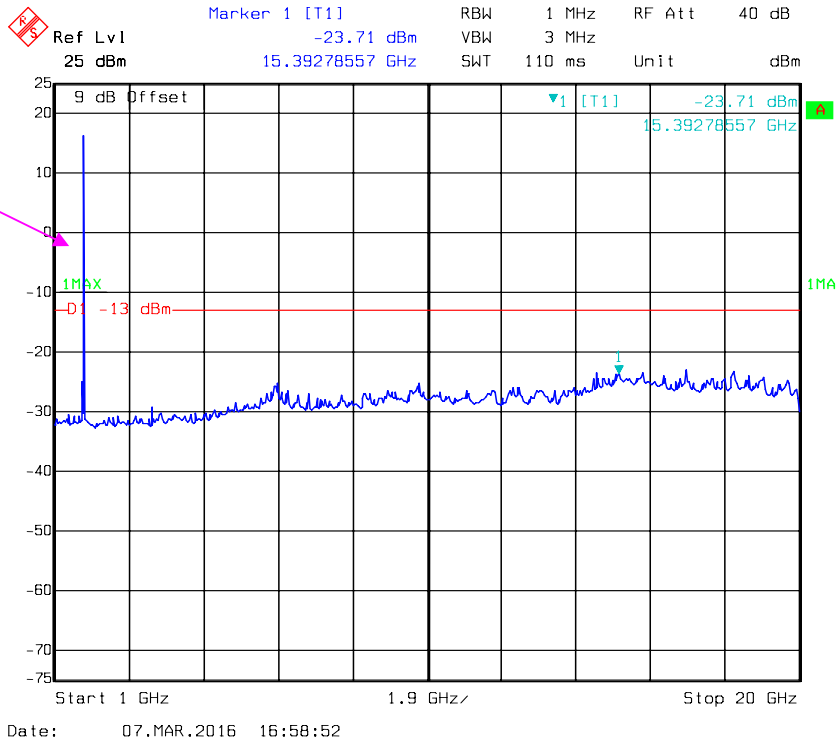


Fundamental



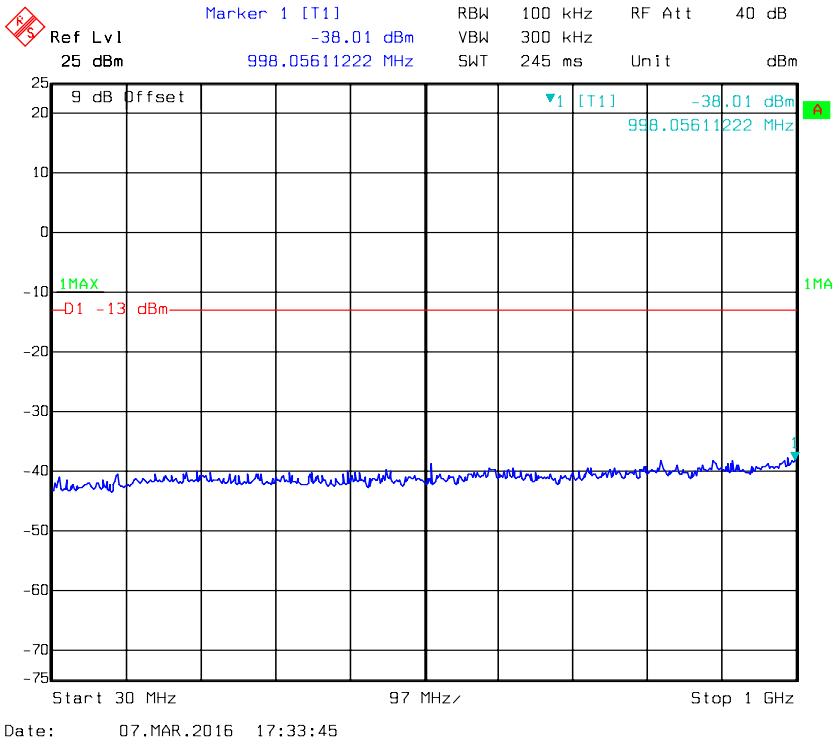
16-QAM, Band 4-10M _ Middle Channel

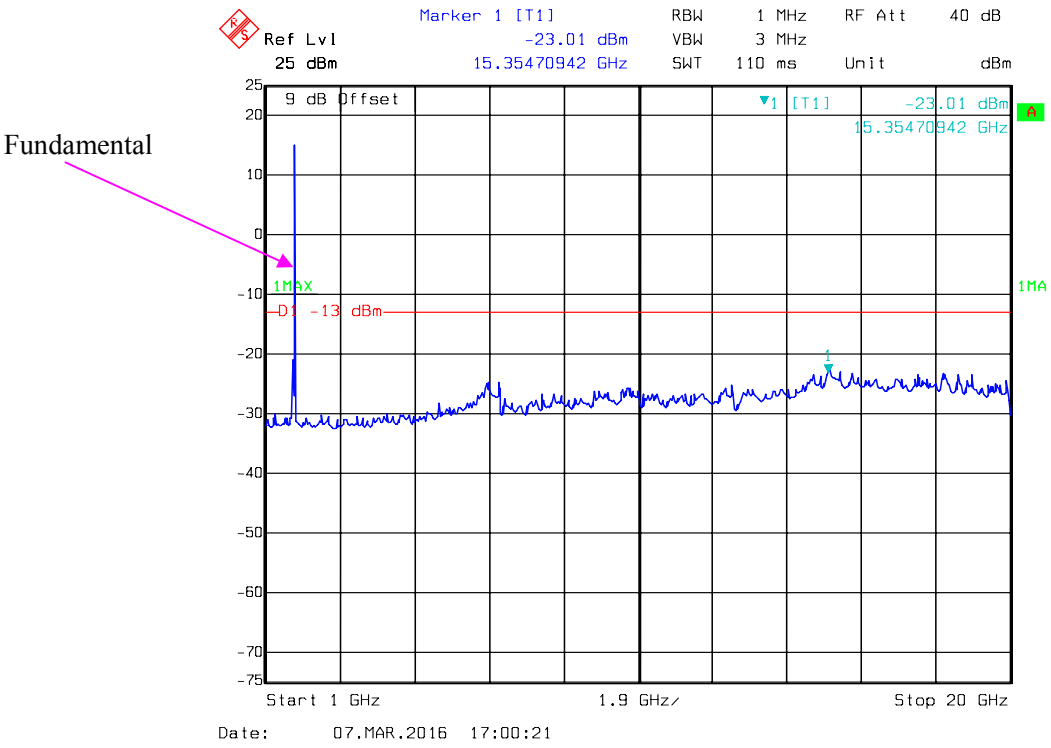




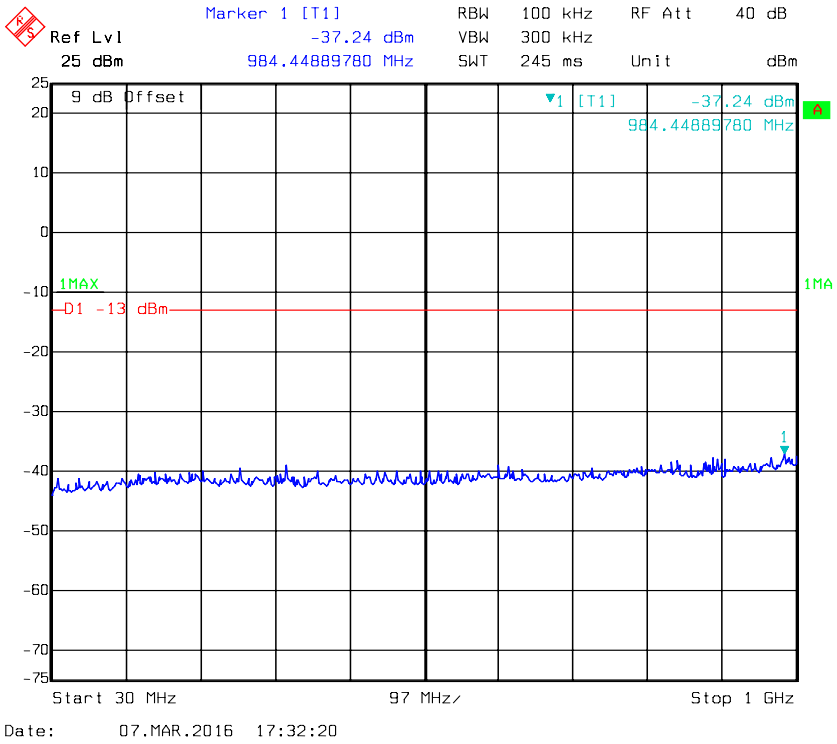
Fundamental

16-QAM, Band 4-15M _ Middle Channel

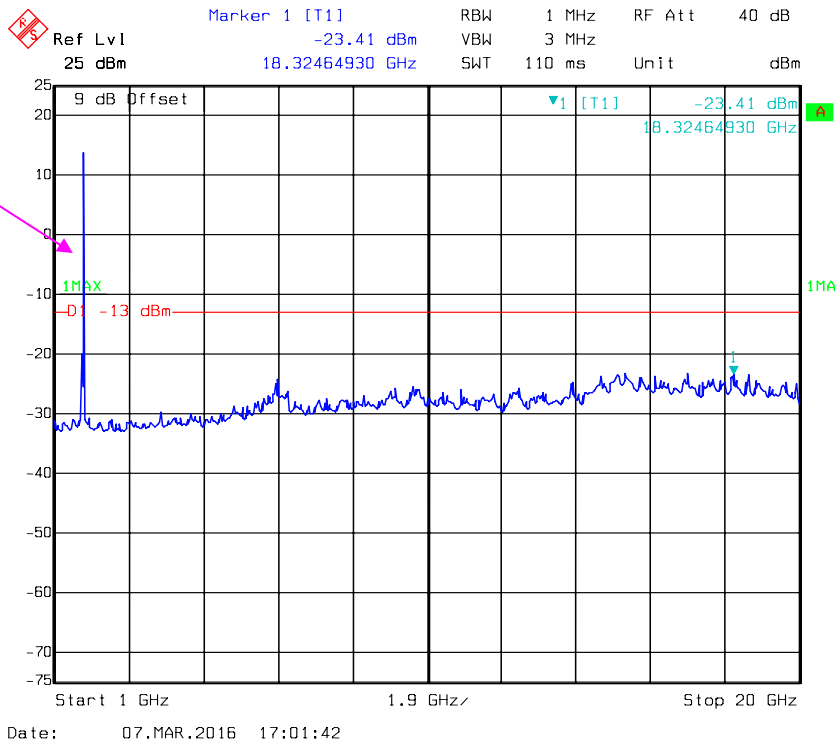




16-QAM, Band 4-20M _ Middle Channel

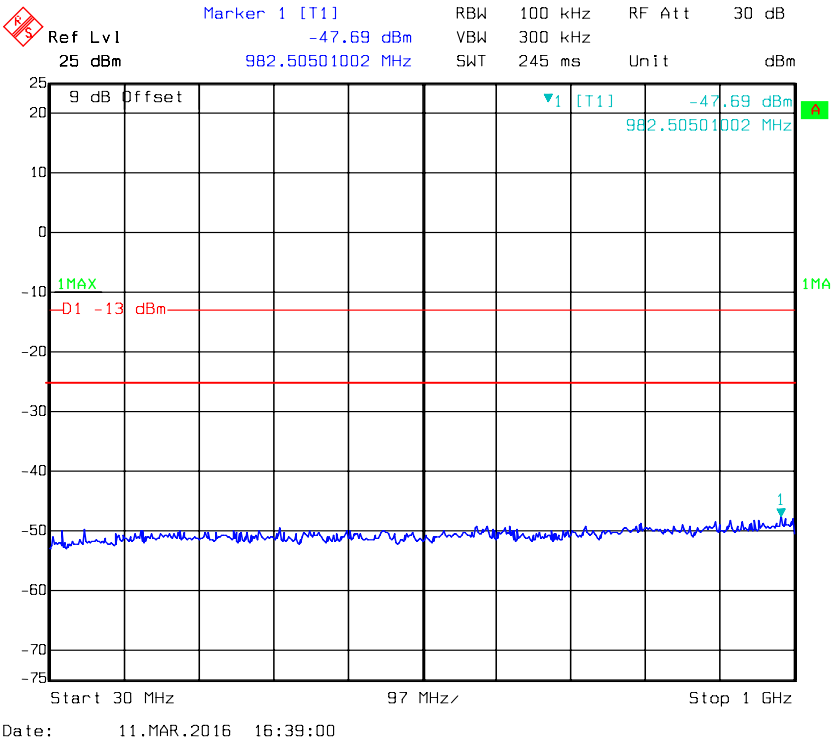


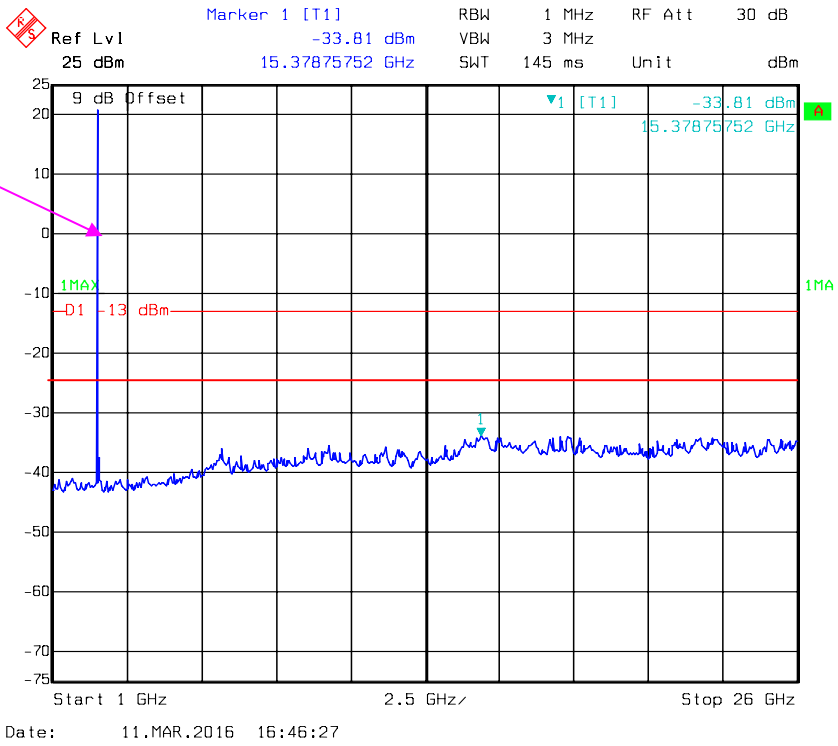
Fundamental



LTE Band 7:

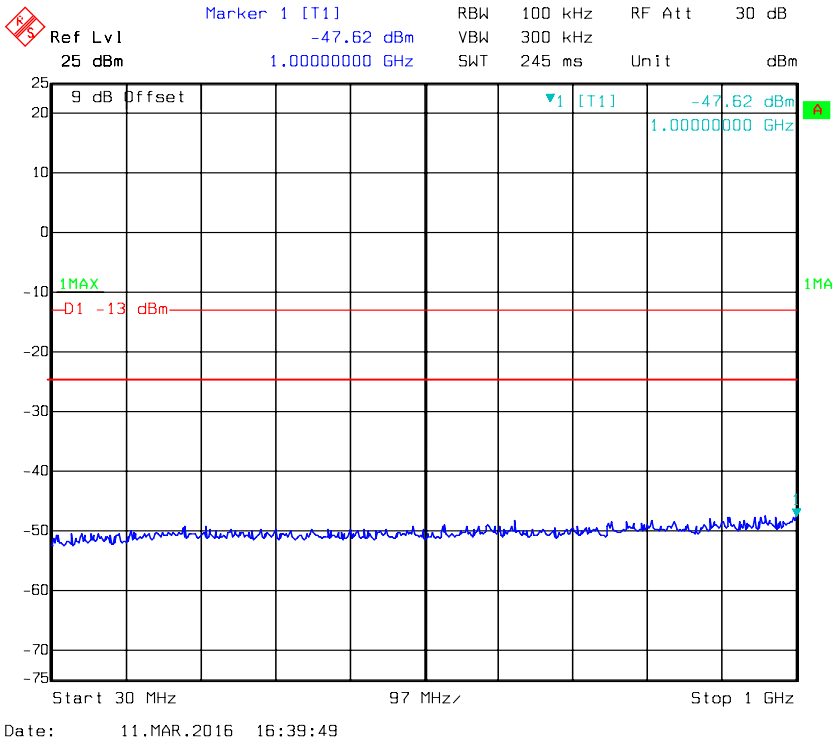
QPSK, Band 7-5M _ Middle Channel



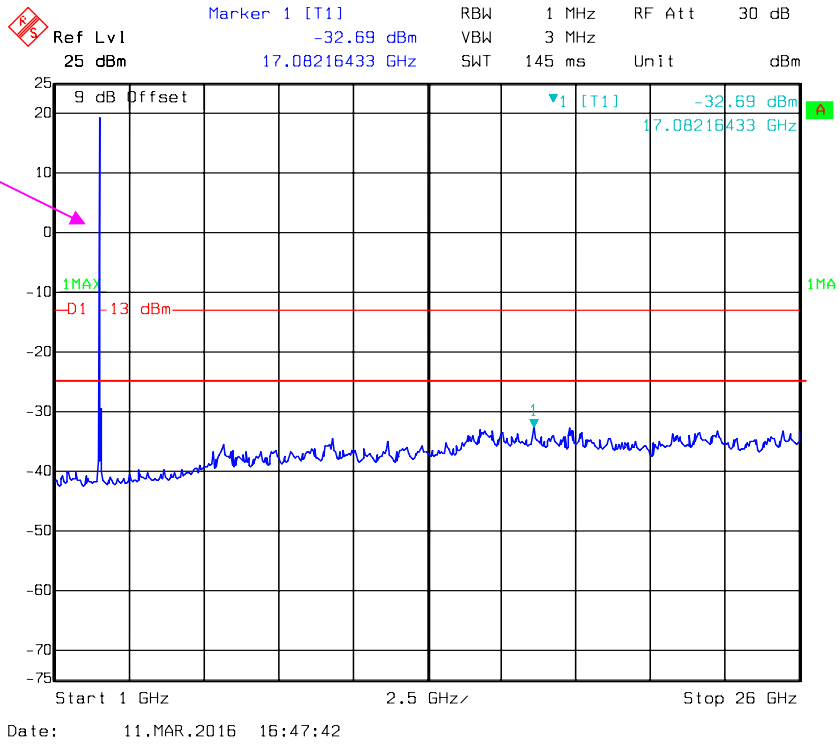


Fundamental

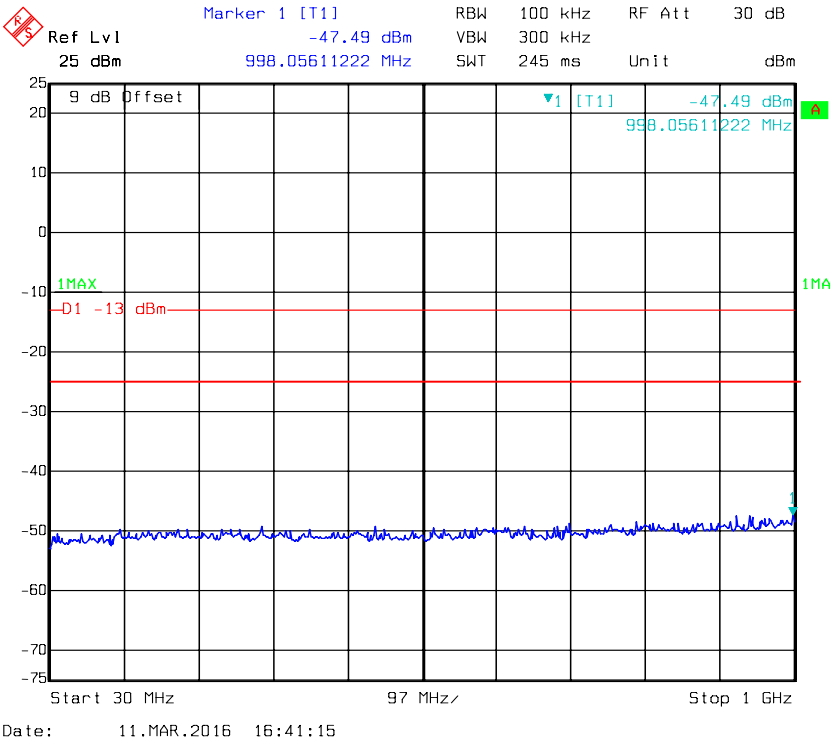
QPSK, Band 7-10M _ Middle Channel

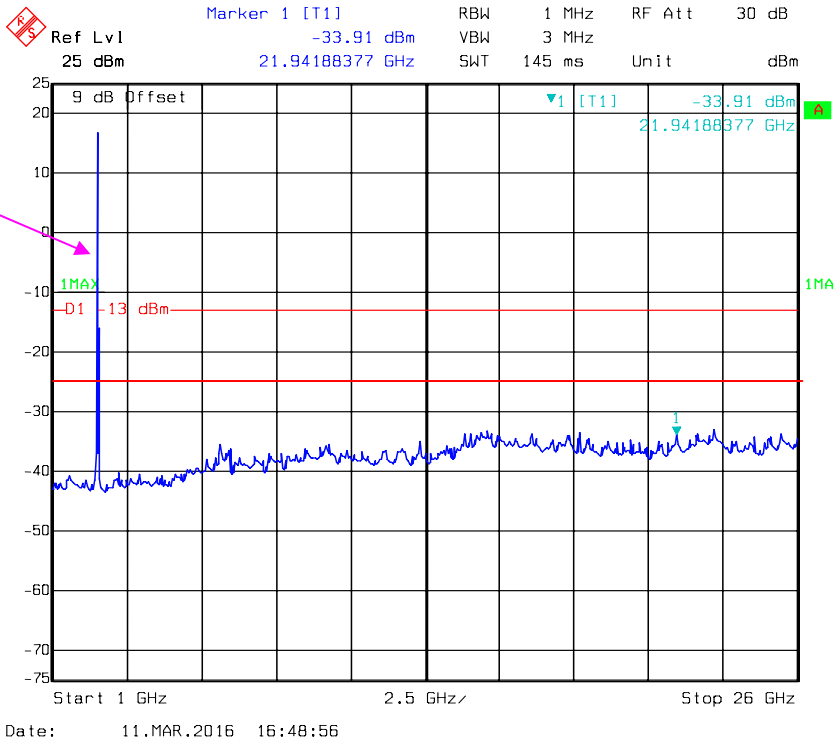


Fundamental



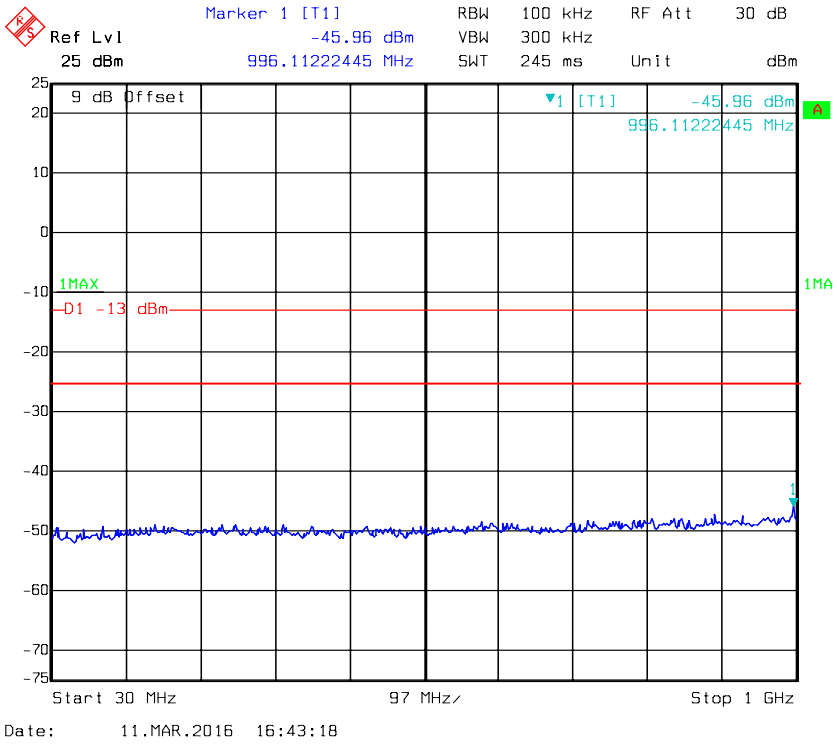
QPSK, Band 7-15M _ Middle Channel

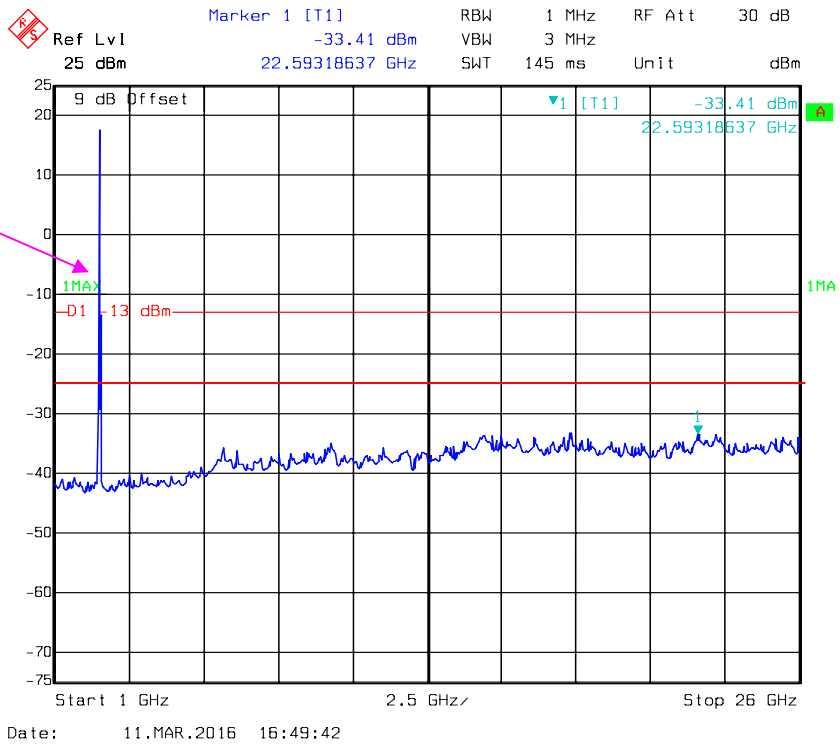




Fundamental

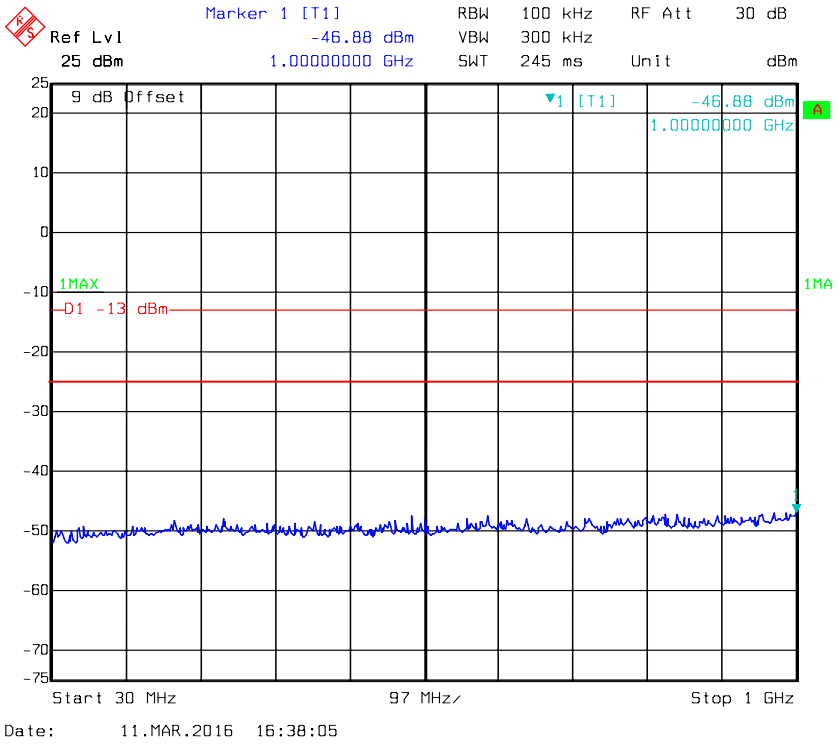
QPSK, Band 7-20M _ Middle Channel



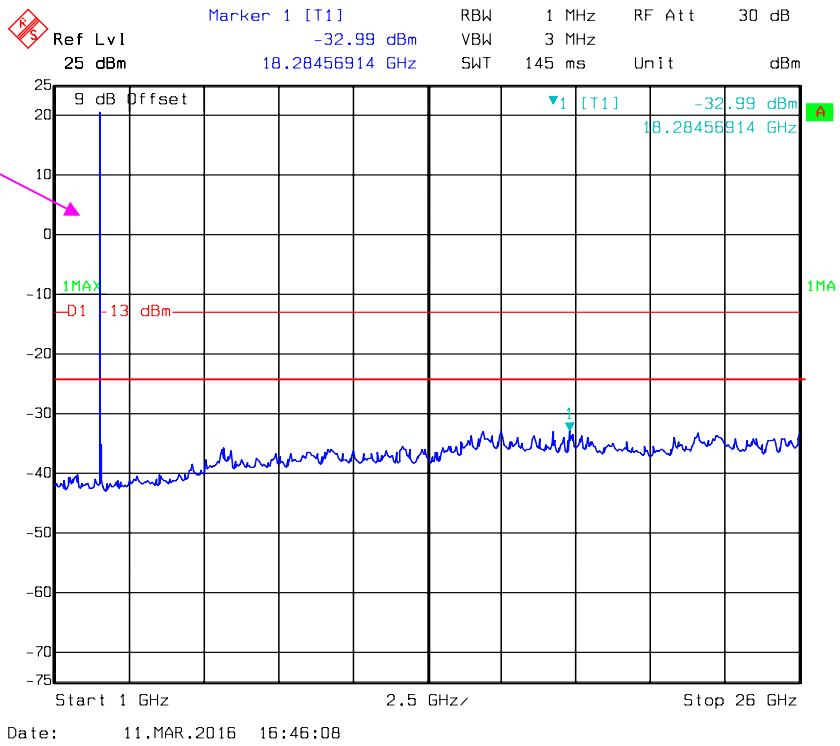


Fundamental

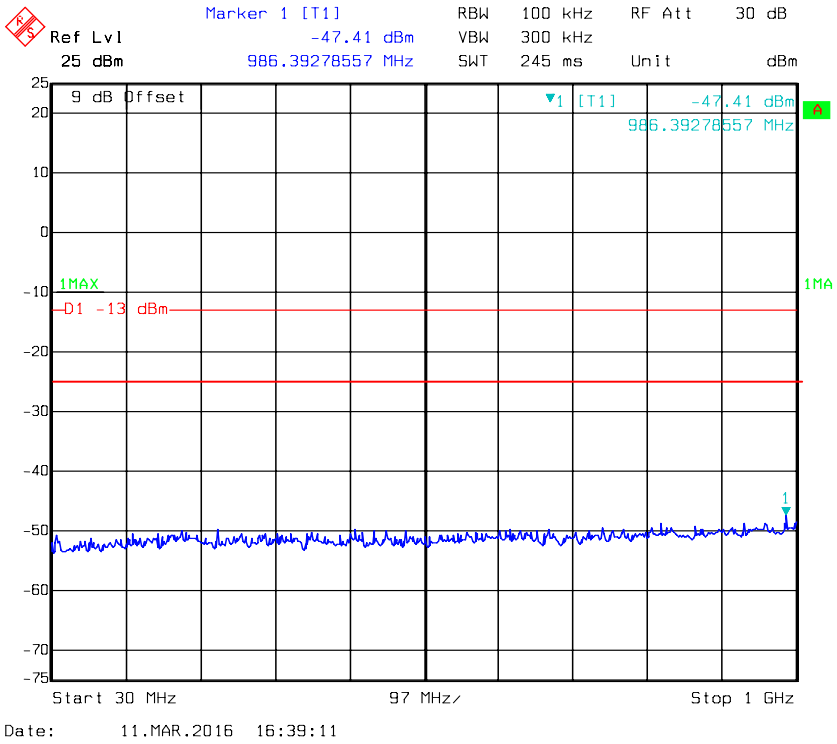
16-QAM, Band 7-5M _ Middle Channel

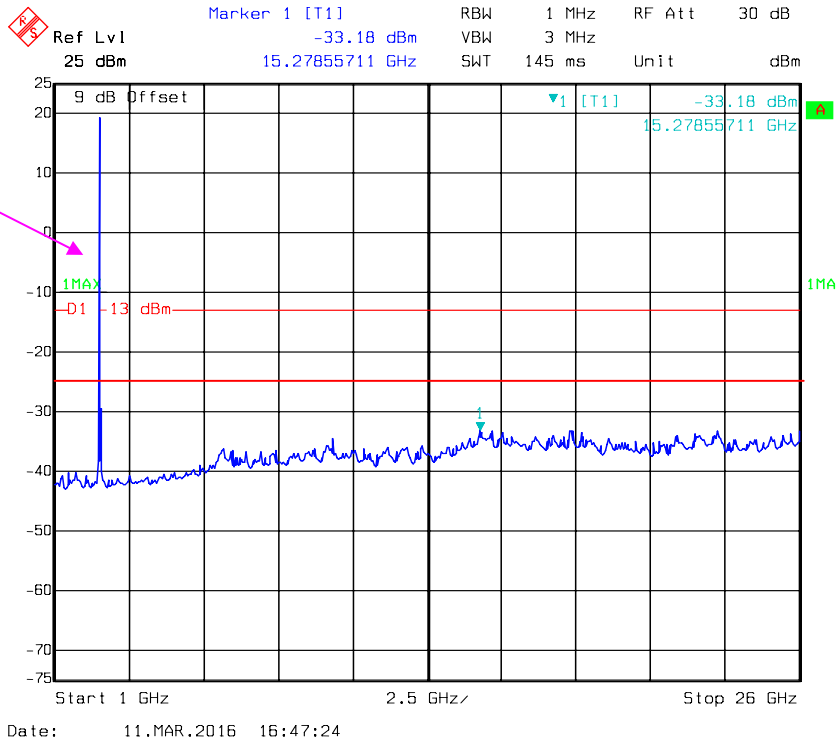


Fundamental



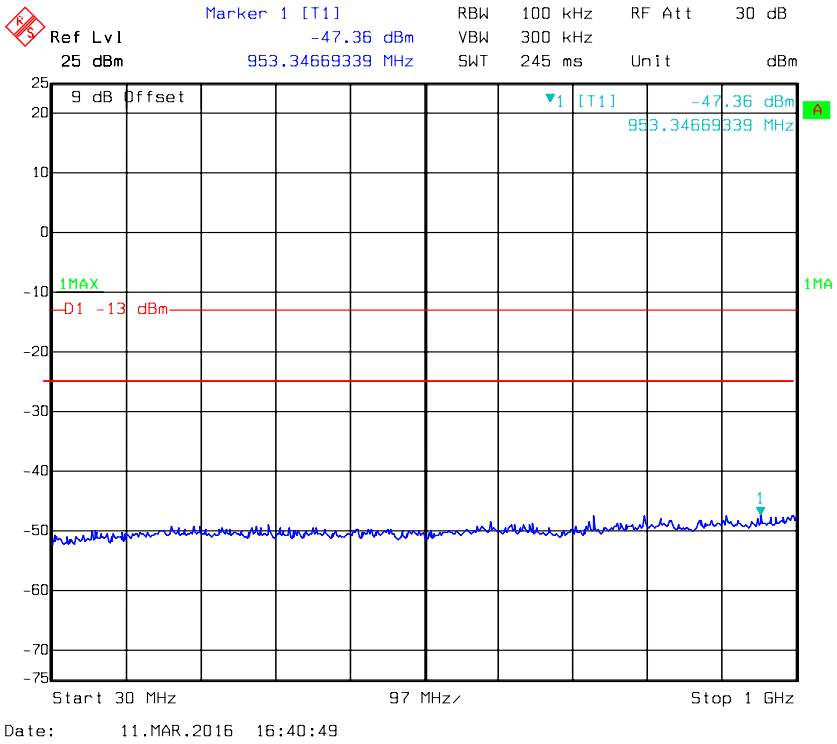
16-QAM, Band 7-10M _ Middle Channel

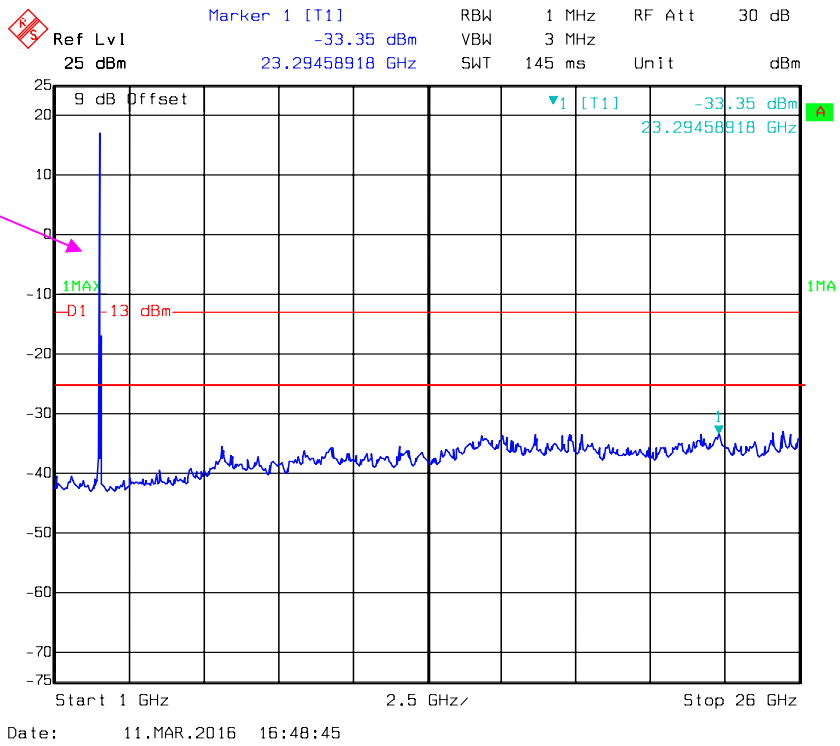




Fundamental

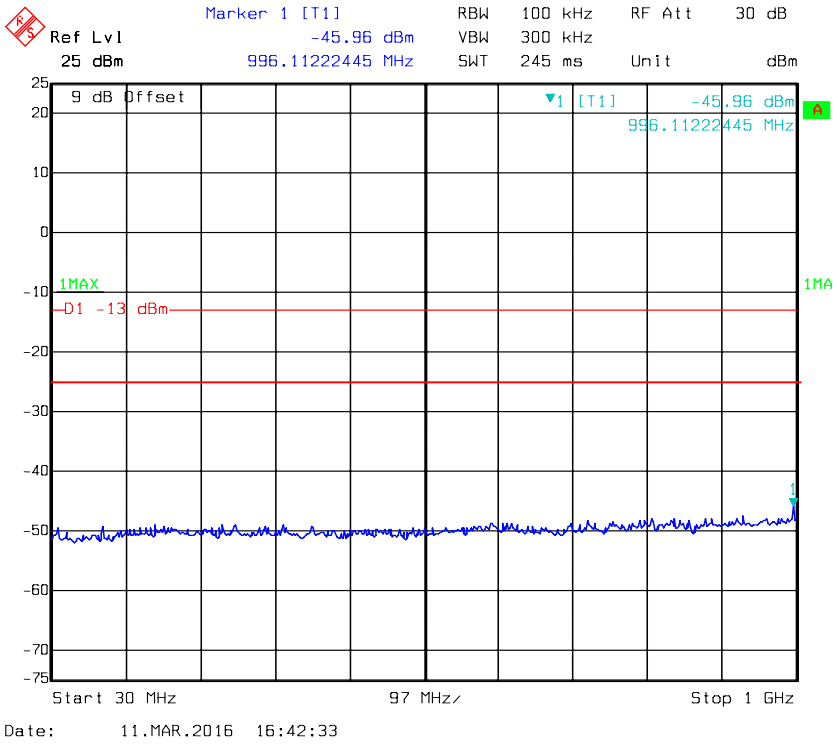
16-QAM, Band 7-15M _ Middle Channel

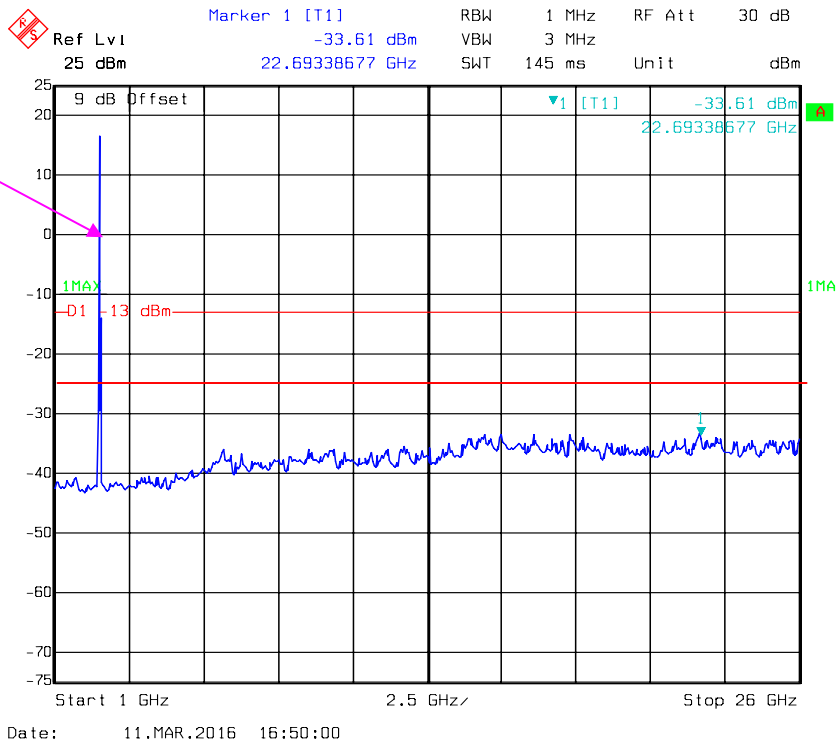




Fundamental

16-QAM, Band 7-20M _ Middle Channel

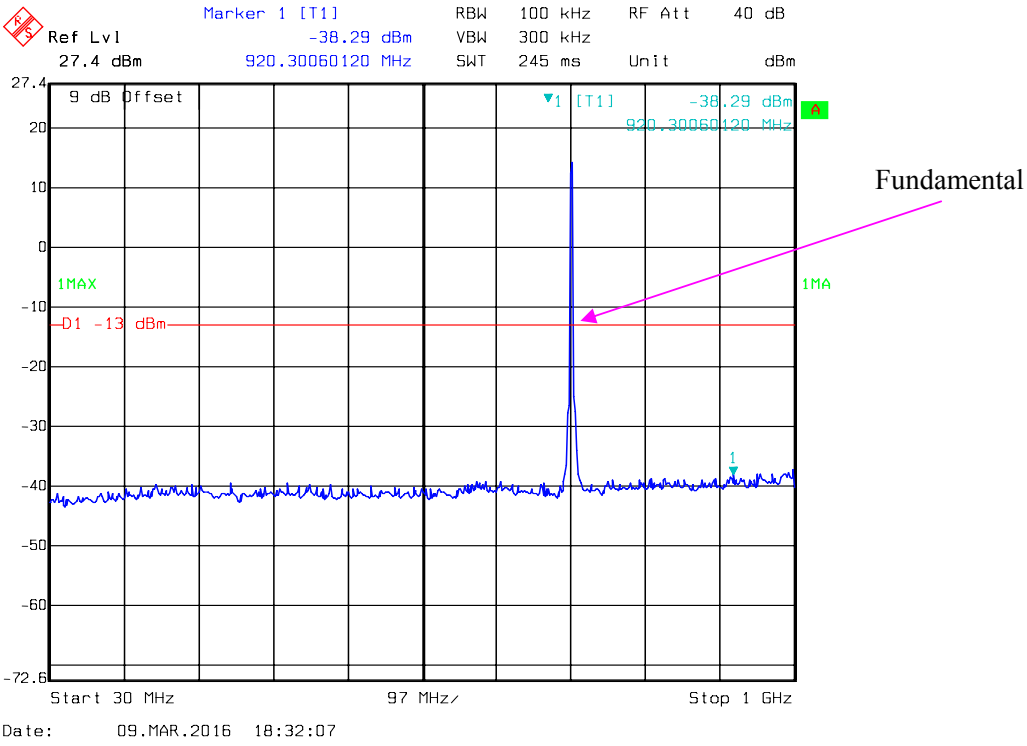


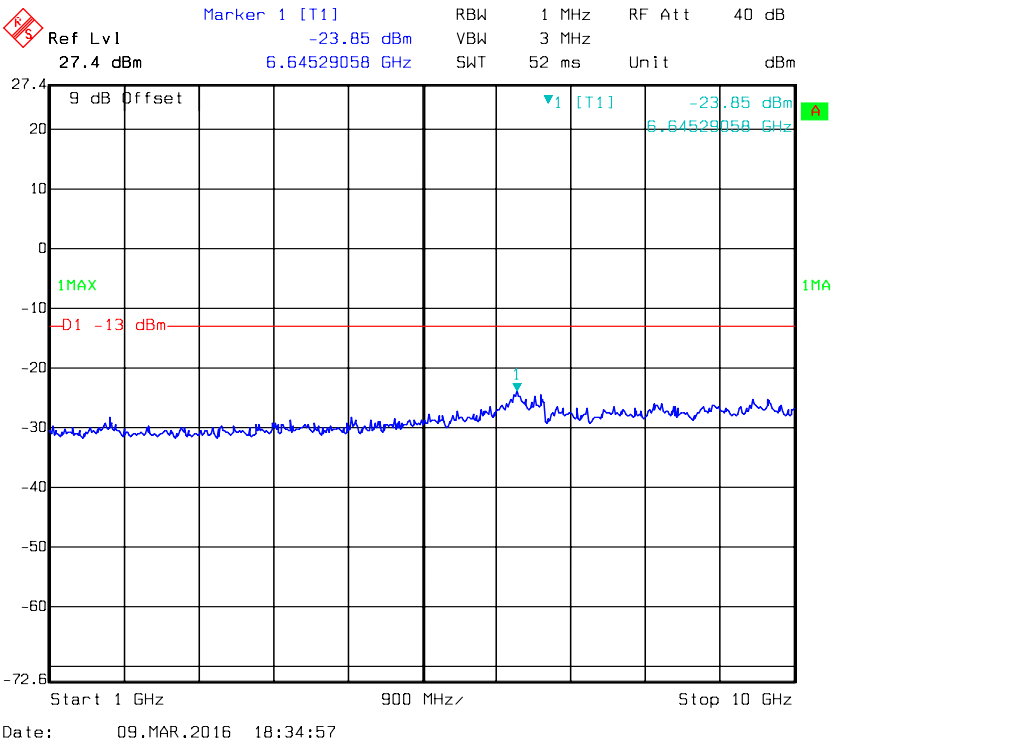


Fundamental

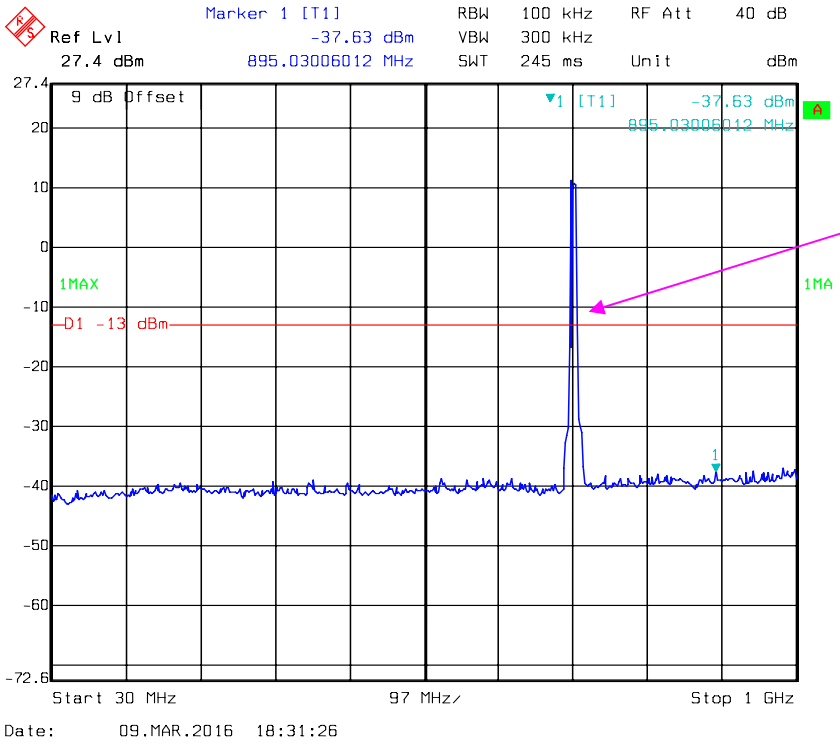
LTE Band 17:

QPSK, Band 17-5M _ Middle Channel

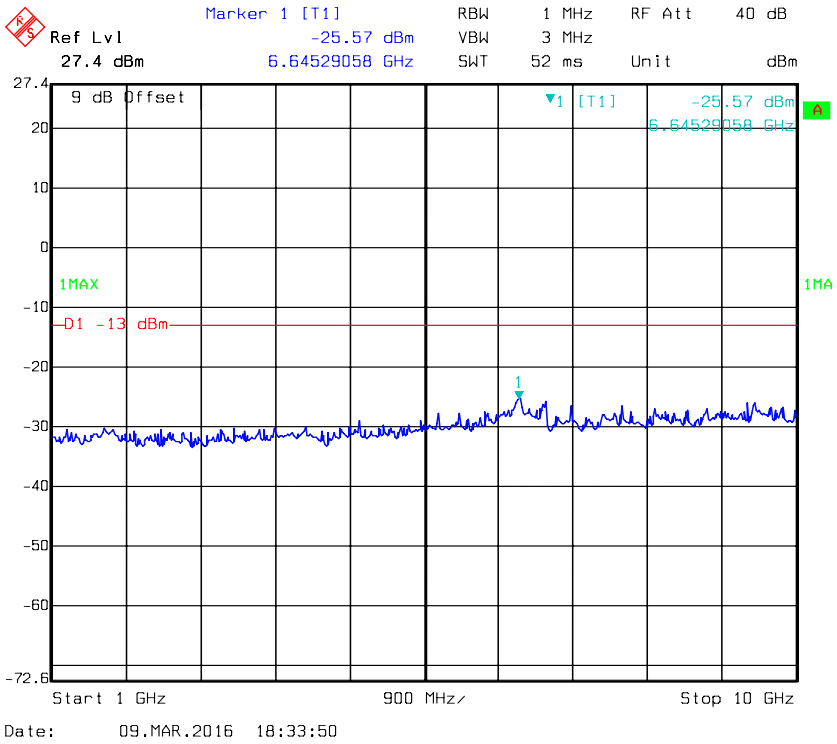




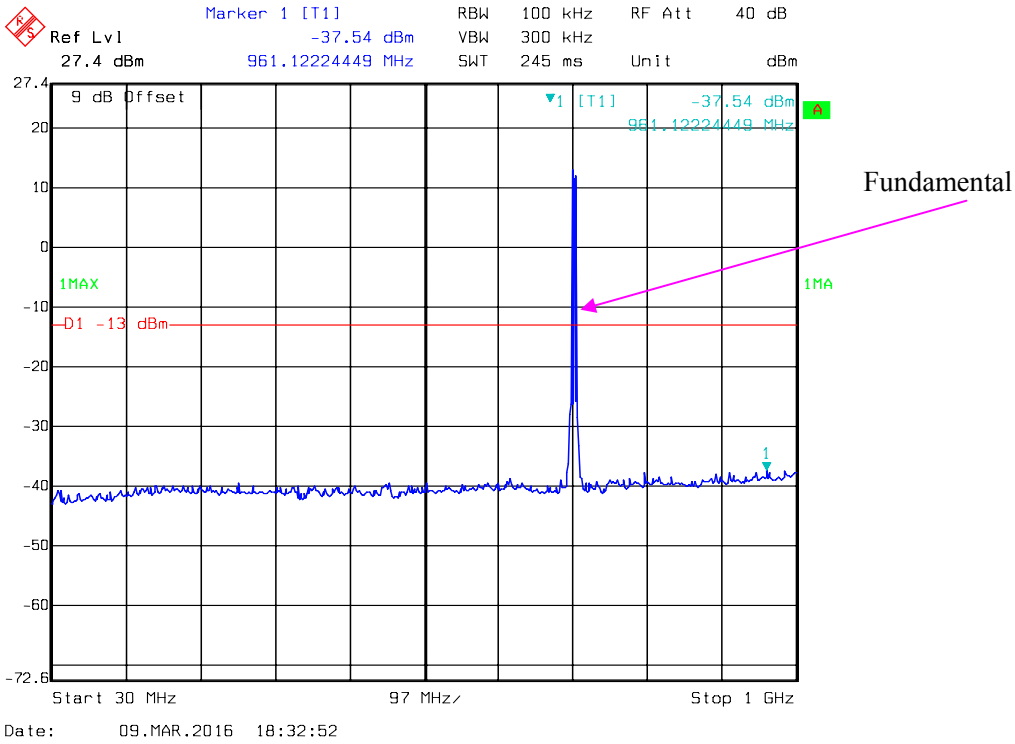
QPSK, Band 17-10M _ Middle Channel

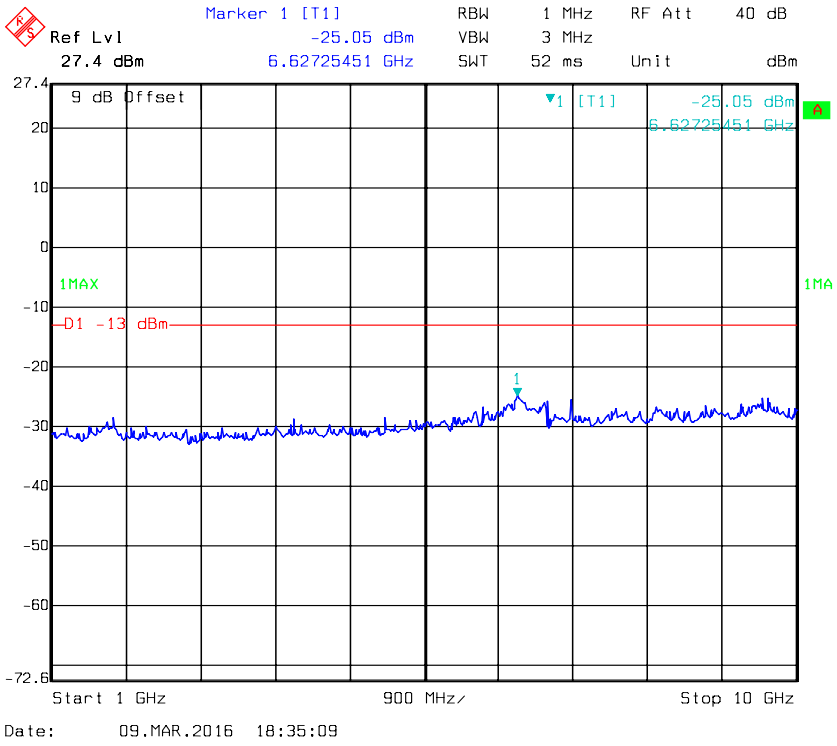


Fundamental

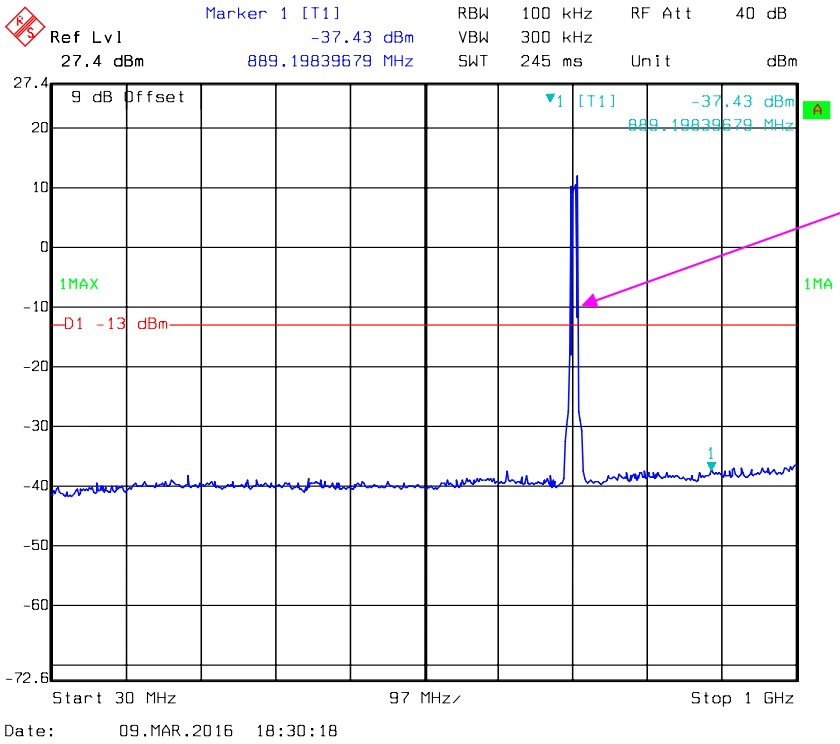


16-QAM, Band 17-5M _ Middle Channel

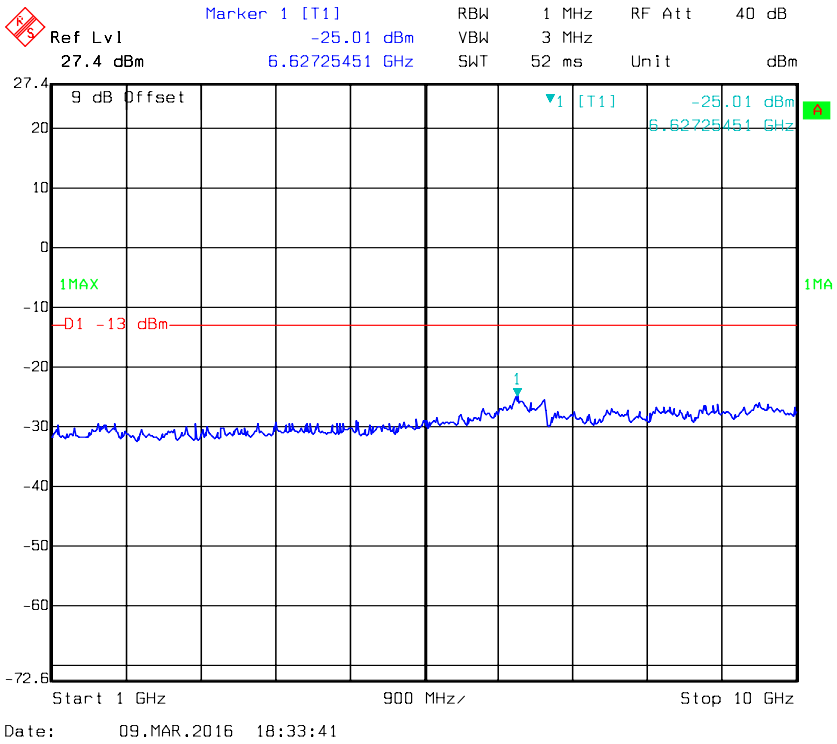




16-QAM, Band 17-10M _ Middle Channel



Fundamental



FCC §2.1053, §22.917 & §24.238 & §27.53- SPURIOUS RADIATED EMISSIONS

Applicable Standard

FCC § 2.1053, §22.917, § 24.238 and § 27.53.

Test Procedure

The transmitter was placed on a wooden turntable, and it was transmitting into a non-radiating load which was also placed on the turntable.

The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.

The frequency range up to tenth harmonic of the fundamental frequency was investigated.

Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.

Spurious emissions in dB = 10 lg (TXpwr in Watts/0.001) – the absolute level

Spurious attenuation limit in dB = 43 + 10 Log_{10} (power out in Watts)

Spurious attenuation limit in dB = 55 + 10 Log_{10} (power out in Watts) for band 7

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	EMI Test Receiver	ESCI	100224	2015-08-03	2016-08-02
Sunol Sciences	Antenna	JB3	A060611-3	2014-11-06	2017-11-05
HP	Amplifier	8447E	2434A02181	2015-09-01	2016-09-01
R&S	Spectrum Analyzer	FSEM	DE31388	2015-05-09	2016-05-09
ETS LINDGREN	Horn Antenna	3115	000 527 35	2015-09-06	2018-09-06
Mini-Circuit	Amplifier	ZVA-213-S+	054201245	2016-02-19	2017-02-19
Giga	Signal Generator	1026	320408	2015-11-23	2016-11-22
EMCO	Adjustable Dipole Antenna	3121C	9109-753	N/A	N/A
TDK RF	Horn Antenna	HRN-0118	130 084	2015-09-06	2018-09-06
N/A	Coaxial Cable	14m	N/A	2015-05-06	2016-05-06
N/A	Coaxial Cable	8m	N/A	2015-05-06	2016-05-06
N/A	Coaxial Cable	2m	N/A	2015-05-06	2016-05-06
Mini Circuit	High Pass Filter	VHF-3100+	31251	2015-05-06	2016-05-06
Mini Circuit	High Pass Filte	VHF-1200+	N/A	2015-05-06	2016-05-06

*** Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data

Environmental Conditions

Temperature:	27.4°C
Relative Humidity:	66 %
ATM Pressure:	100.6 kPa

The testing was performed by Dean Liu on 2016-03-09.

EUT Operation Mode: Transmitting

Cellular Band (PART 22H)

30 MHz-10 GHz:

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			S.G. Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
GSM mode, Frequency:836.6 MHz								
1673.200	H	42.59	-58.5	10.6	1.5	-49.4	-13.0	36.4
1673.200	V	38.09	-63.3	10.6	1.5	-54.2	-13.0	41.2
2509.800	H	39.33	-58.7	13.1	2.8	-48.4	-13.0	35.4
2509.800	V	37.71	-59.4	13.1	2.8	-49.1	-13.0	36.1
236.600	H	44.33	-63.7	0.0	0.5	-64.2	-13.0	51.2
127.100	V	42.28	-58.6	0.0	0.3	-58.9	-13.0	45.9
WCDMA R99, Frequency:836.6 MHz								
1673.200	H	34.04	-67	10.6	1.5	-57.9	-13.0	44.9
1673.200	V	33.18	-68.2	10.6	1.5	-59.1	-13.0	46.1
2509.800	H	33.58	-64.4	13.1	2.8	-54.1	-13.0	41.1
2509.800	V	33.42	-63.7	13.1	2.8	-53.4	-13.0	40.4
236.600	H	43.96	-64.1	0.0	0.5	-64.6	-13.0	51.6
127.100	V	41.32	-59.6	0.0	0.3	-59.9	-13.0	46.9

PCS Band (PART 24E)

30 MHz-20 GHz:

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			S.G. Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
GSM mode, Frequency:1880 MHz								
3760.000	H	34.08	-60.2	13.8	2.9	-49.3	-13.0	36.3
3760.000	V	33.68	-59.4	13.8	2.9	-48.5	-13.0	35.5
236.600	H	44.85	-63.2	0.0	0.5	-63.7	-13.0	50.7
127.100	V	42.13	-58.8	0.0	0.3	-59.1	-13.0	46.1
WCDMA R99, Frequency:1880 MHz								
3760.000	H	39.93	-54.4	13.8	2.9	-43.5	-13.0	30.5
3760.000	V	34.63	-58.4	13.8	2.9	-47.5	-13.0	34.5
236.600	H	43.56	-64.5	0.0	0.5	-65.0	-13.0	52.0
127.100	V	41.17	-59.7	0.0	0.3	-60.0	-13.0	47.0

AWS Band IV

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			S.G. Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
WCDMA R99, Frequency:1732.500 MHz								
3465.000	H	35.18	-61.8	13.9	1.9	-49.8	-13.0	36.8
3465.000	V	34.68	-61.5	13.9	1.9	-49.5	-13.0	36.5
236.600	H	43.02	-65	0.0	0.5	-65.5	-13.0	52.5
127.100	V	41.63	-59.3	0.0	0.3	-59.6	-13.0	46.6

Note:

1) The unit of Antenna Gain is dBd for frequency below 1GHz, and the unit of Antenna Gain is dBi for frequency above 1GHz.
2) Absolute Level = SG Level - Cable loss + Antenna Gain
3) Margin = Limit-Absolute Level

LTE:

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			S.G. Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
Band II, QPSK, Frequency:1880.00 MHz								
3760.000	H	39.81	-54.5	13.8	2.9	-43.6	-13.0	30.6
3760.000	V	37.71	-55.4	13.8	2.9	-44.5	-13.0	31.5
5640.000	H	41.53	-50.2	14.0	2.1	-38.3	-13.0	25.3
5640.000	V	45.21	-46.5	14.0	2.1	-34.6	-13.0	21.6
236.600	H	43.96	-64.1	0.0	0.5	-64.6	-13.0	51.6
127.100	V	41.32	-59.6	0.0	0.3	-59.9	-13.0	46.9
Band IV, QPSK, Frequency:1732.5 MHz								
3465.000	H	36.02	-60.9	13.9	1.9	-48.9	-13.0	35.9
3465.000	V	34.16	-62	13.9	1.9	-50.0	-13.0	37.0
5197.500	H	38.29	-52.7	14.0	2.3	-41.0	-13.0	28.0
5197.500	V	39.05	-53.5	14.0	2.3	-41.8	-13.0	28.8
236.600	H	43.54	-64.5	0.0	0.5	-65.0	-13.0	52.0
127.100	V	41.22	-59.7	0.0	0.3	-60.0	-13.0	47.0
Band VII, QPSK, Frequency:2535.000 MHz								
5070.000	H	37.87	-53.5	13.9	2.4	-42.0	-25.0	17.0
5070.000	V	39.85	-52.3	13.9	2.4	-40.8	-25.0	15.8
7605.000	H	44.80	-42.7	13.2	3.1	-32.6	-25.0	7.6
7605.000	V	46.15	-41.3	13.2	3.1	-31.2	-25.0	6.2
236.600	H	44.08	-64	0.0	0.5	-64.5	-25.0	39.5
127.100	V	42.29	-58.6	0.0	0.3	-58.9	-25.0	33.9
Band XVII, QPSK, Frequency:710.000 MHz								
1420.000	H	46.02	-54.9	9.1	1.3	-47.1	-13.0	34.1
1420.000	V	44.69	-55.9	9.1	1.3	-48.1	-13.0	35.1
2130.000	H	38.30	-57.6	11.2	1.4	-47.8	-13.0	34.8
2130.000	V	42.43	-52.4	11.2	1.4	-42.6	-13.0	29.6
236.600	H	43.54	-64.5	0.0	0.5	-65.0	-13.0	53.2
127.100	V	40.85	-60.1	0.0	0.3	-60.4	-13.0	48.1

Note:
1) The unit of Antenna Gain is dBd for frequency below 1GHz, and the unit of Antenna Gain is dBi for frequency above 1GHz.
2) Absolute Level = SG Level - Cable loss + Antenna Gain
3) Margin = Limit-Absolute Level

FCC §22.917(a) & §24.238(a) & §27.53(g)§27.53(h) §27.53(m) - BAND EDGES

Applicable Standard

According to § 22.917(a), the power of any emissions 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 §24.238(a), the power of any emissions 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 §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.

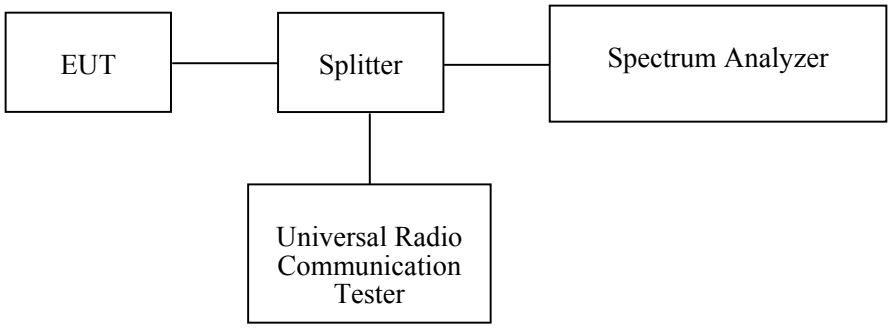
According to §27.53 (h), AWS emission limits—(1) General protection levels. Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least 43 + 10 log10 (P) dB.

According to §27.53 (m), (4) For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

Test Procedure

The RF output of the transmitter was connected to the input of the spectrum analyzer through sufficient attenuation.

The center of the spectrum analyzer was set to block edge frequency.



Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSP 38	100478	2015-05-09	2016-05-09
R&S	Spectrum Analyzer	FSEM	831259/019	2015-05-09	2016-05-09
R&S	Universal Radio Communication Tester	CMU200	109 038	2015-05-09	2016-05-09
R&S	Wideband Radio Communication Tester	CMW500	106891	2015-11-23	2016-11-23
N/A	Coaxial Cable	0.1m	N/A	2015-05-06	2016-05-06
E-Microwave	DC Blocking	EMDCB-00036	0E01201047	2015-05-06	2016-05-06
E-Microwave	Attenuator(10dB)	EMCA10-5RN	OE01203239	2015-05-08	2016-05-08
Pasternack	RF Coaxial Cable	RF-01	N/A	2015-05-06	2016-05-06
Pasternack	RF Coaxial Cable	RF-02	N/A	2015-05-06	2016-05-06
N/A	Two-way Spliter	ODP-1-6-2S	OE0120142	2015-05-06	2016-05-06

*** Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to National Primary Standards and International System of Units (SI).

Test Data

Environmental Conditions

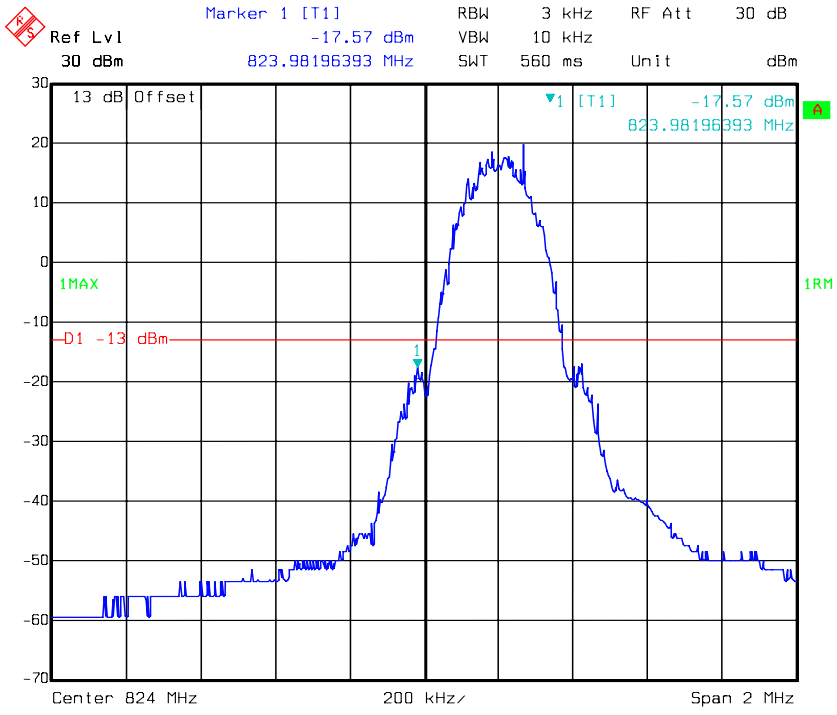
Temperature:	19.1~27.4 °C
Relative Humidity:	41~66 %
ATM Pressure:	100.6~101.8 kPa

The testing was performed by Dean Liu from 2016-03-06 to 2016-03-11.

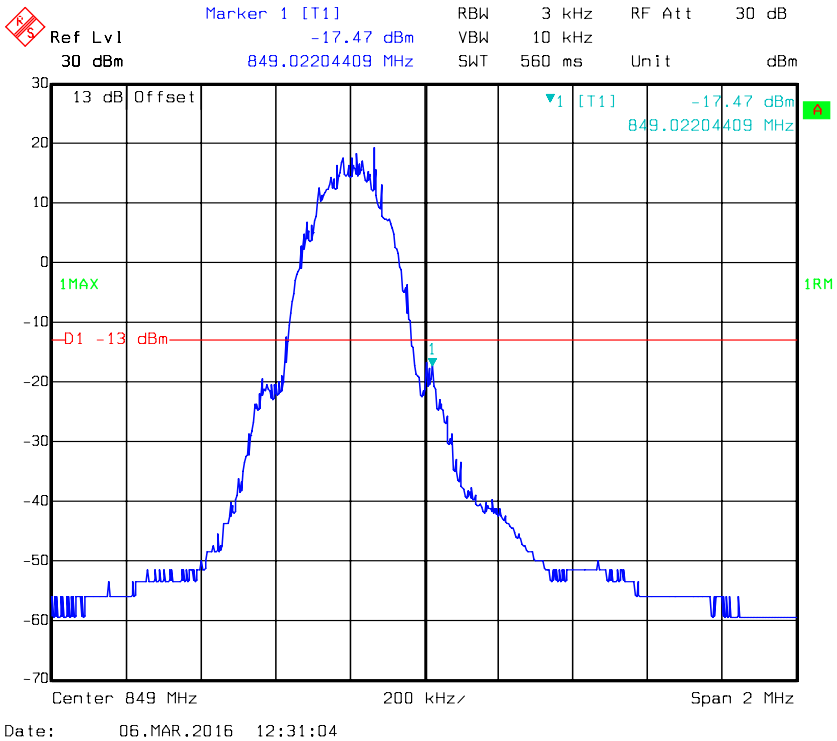
Test Mode: Transmitting

Test Result: Compliance. Please refer to the following plots.

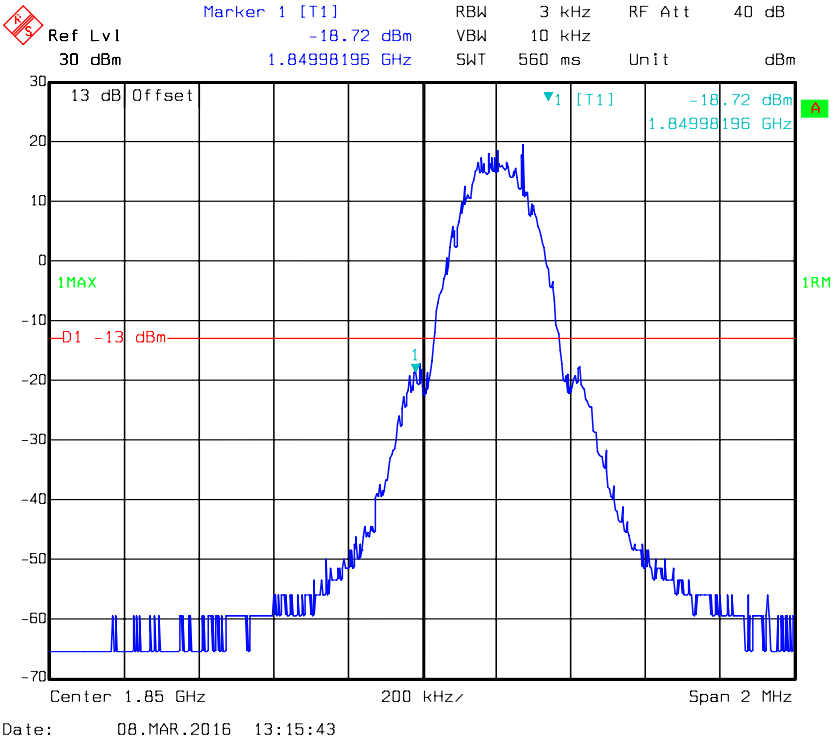
GSM 850, Left Band Edge



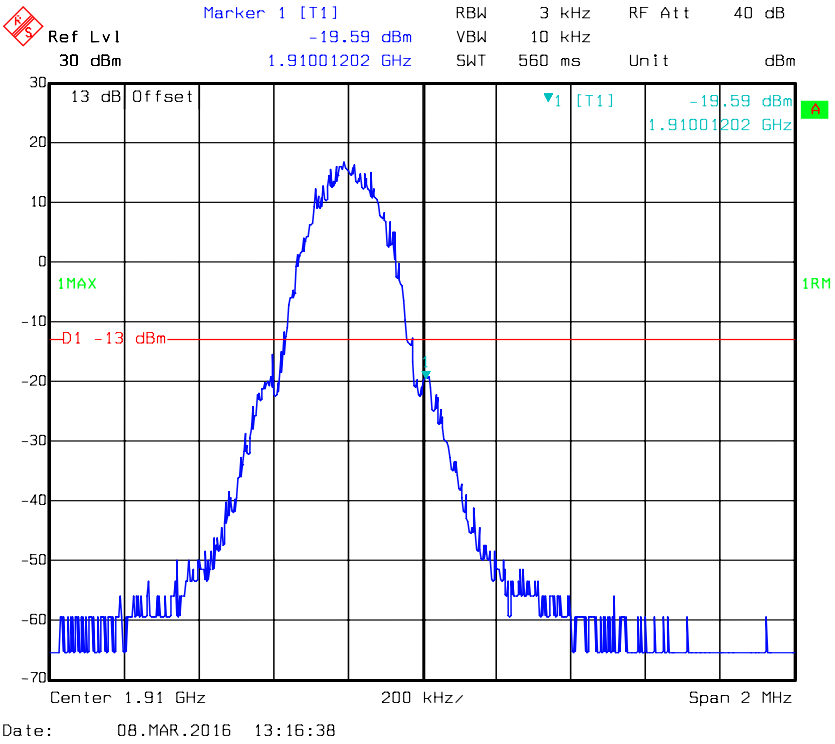
GSM 850, Right Band Edge



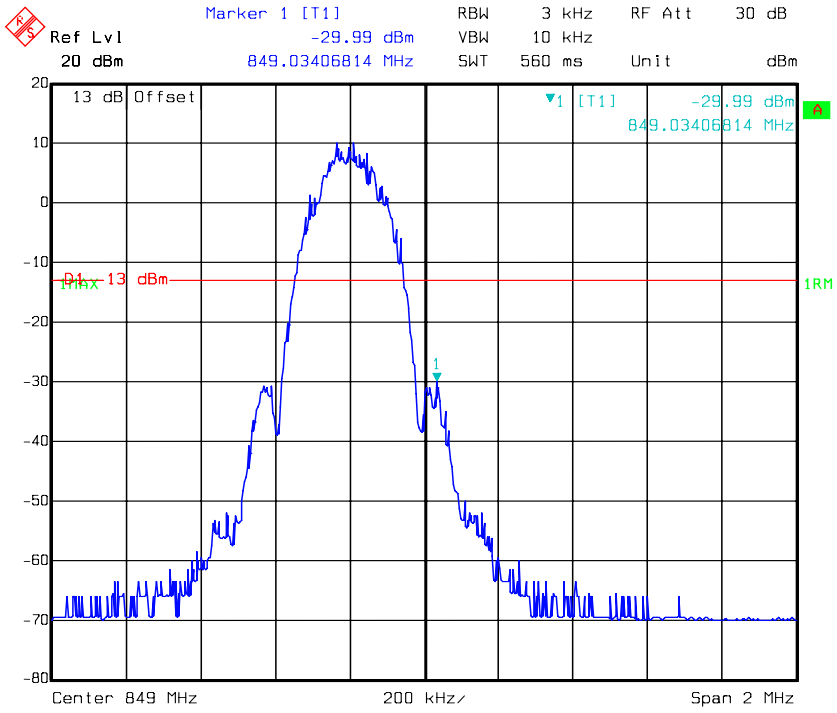
GSM 1900, Left Band Edge



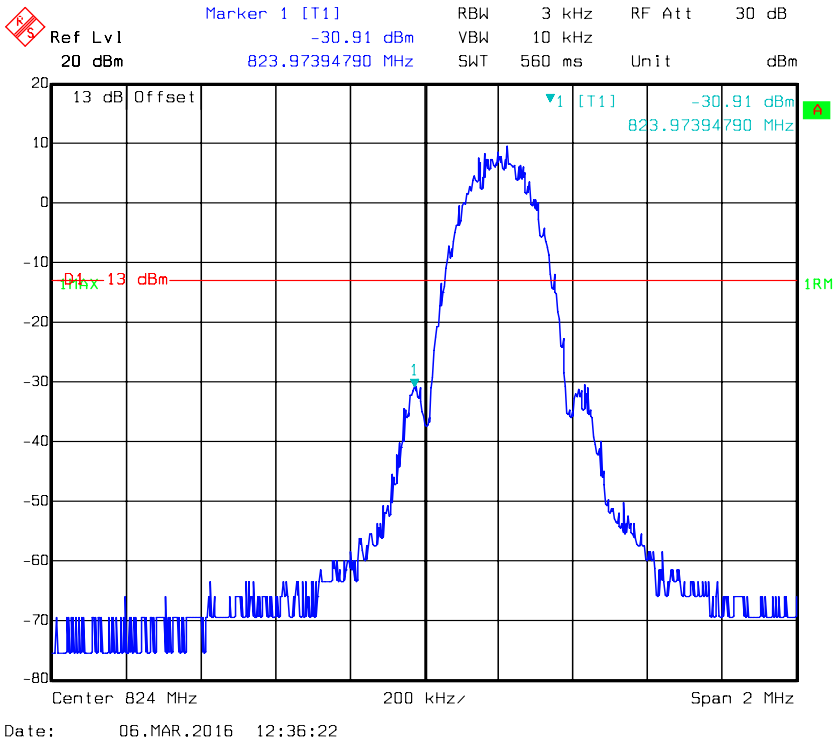
GSM 1900, Right Band Edge



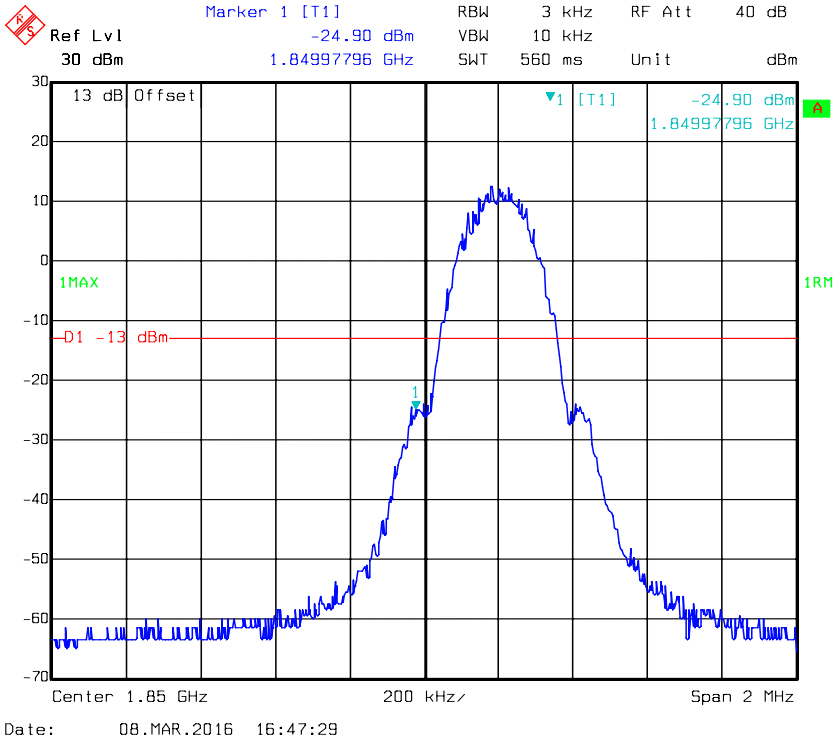
EDGE 850, Left Band Edge



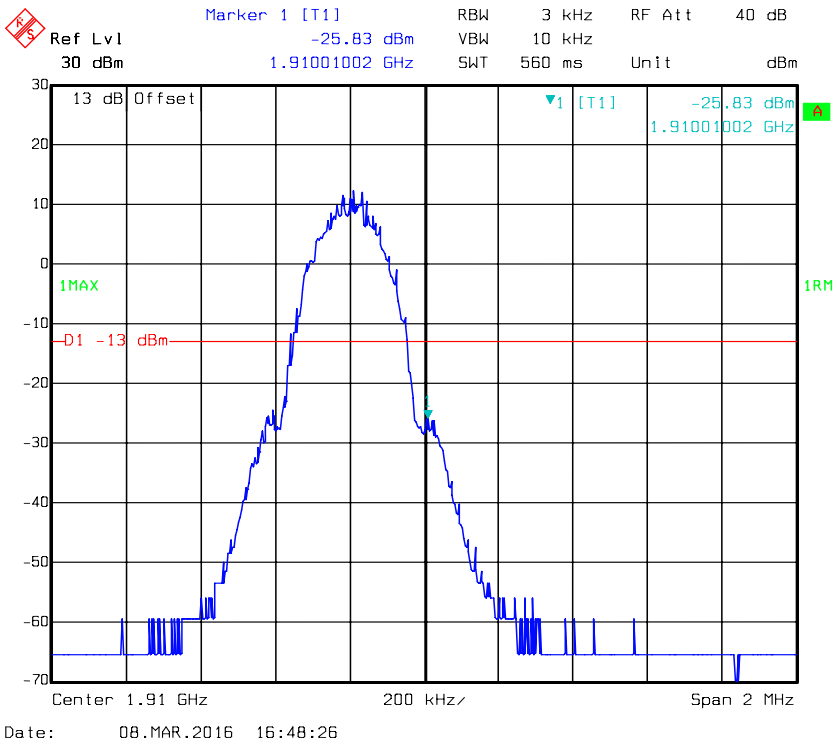
EDGE 850, Right Band Edge



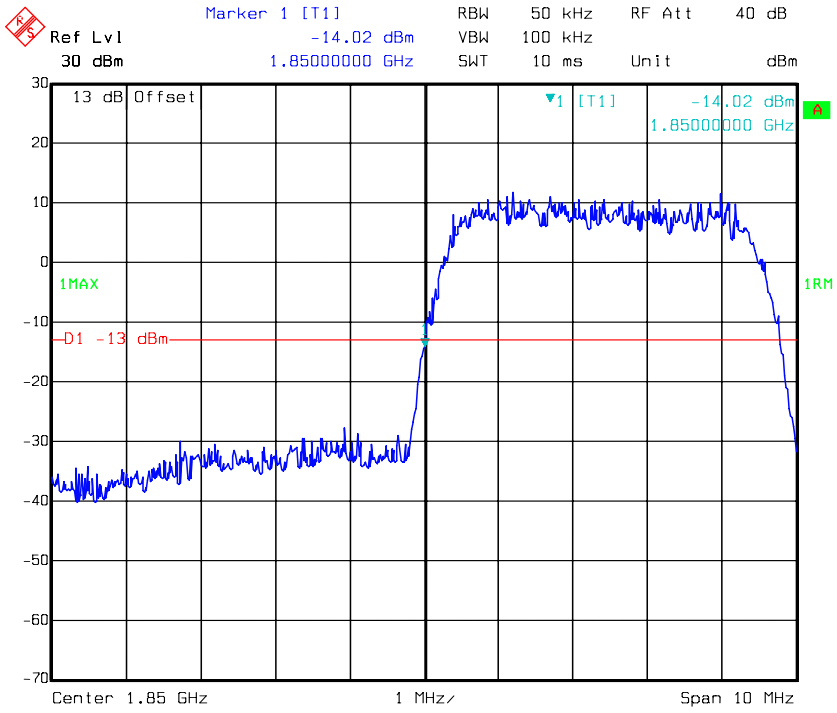
EDGE 1900, Left Band Edge



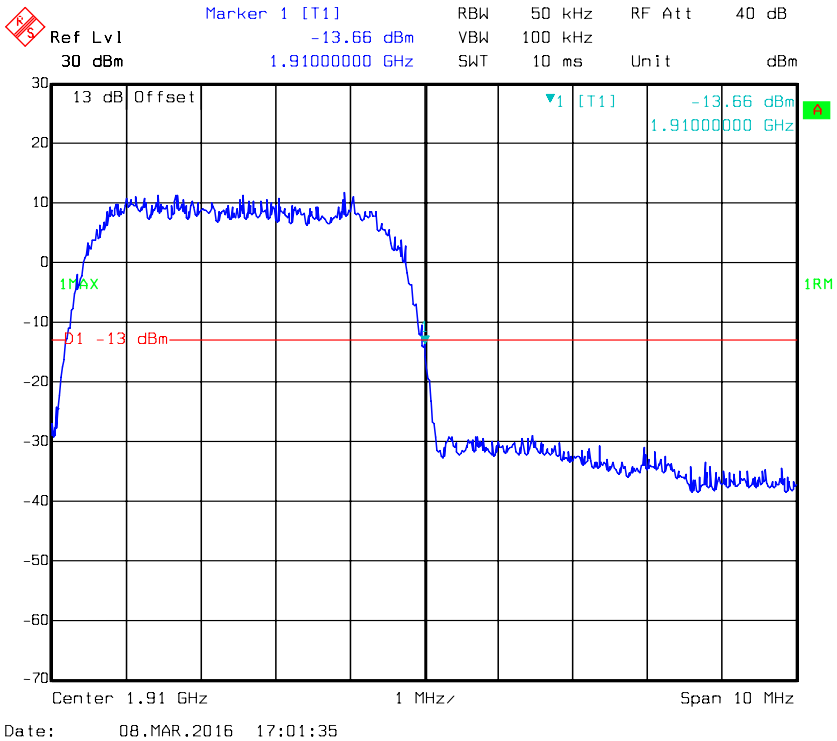
EDGE 1900, Right Band Edge



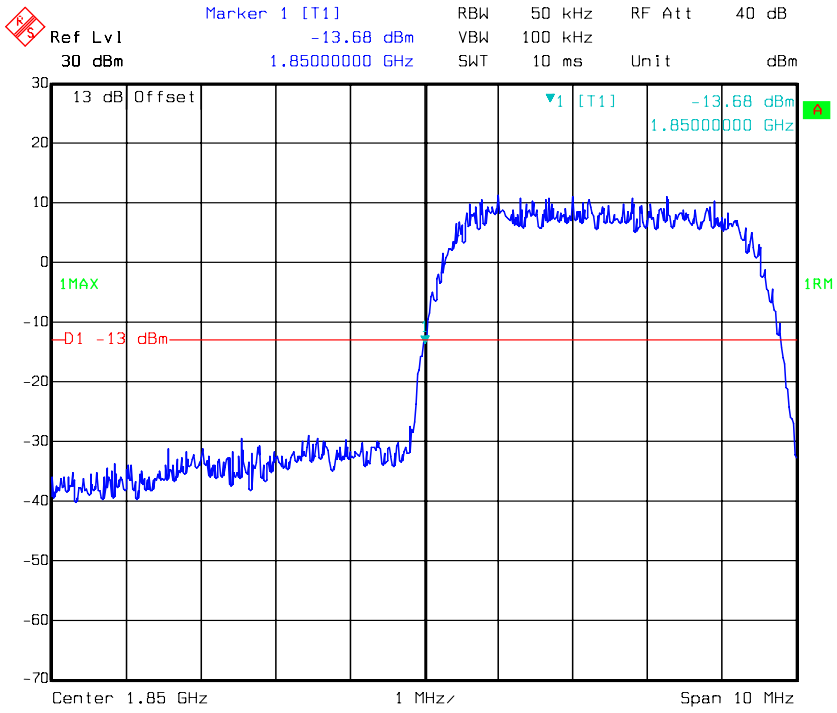
REL99 Band II, Left Band Edge



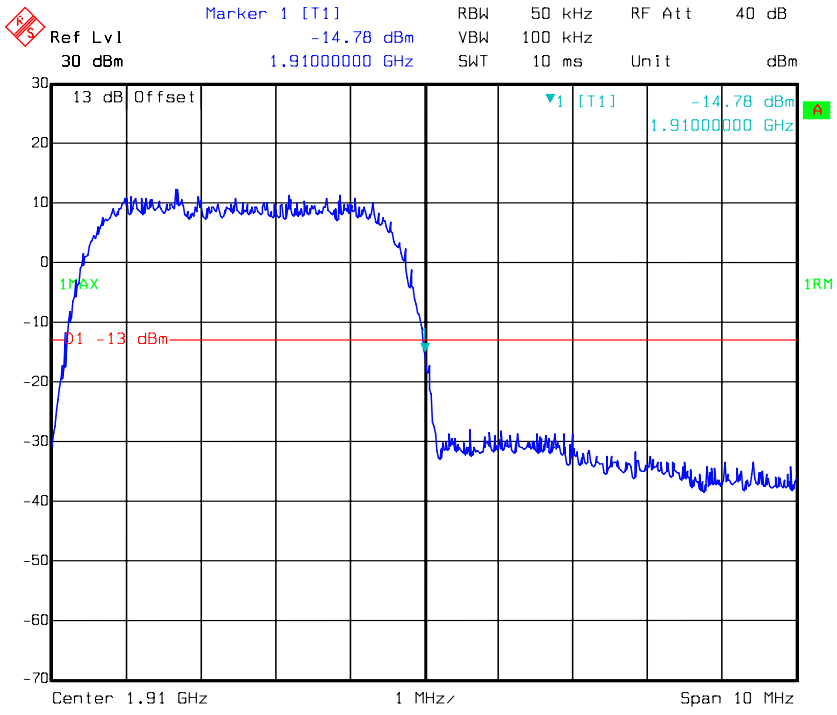
REL99 Band II, Right Band Edge



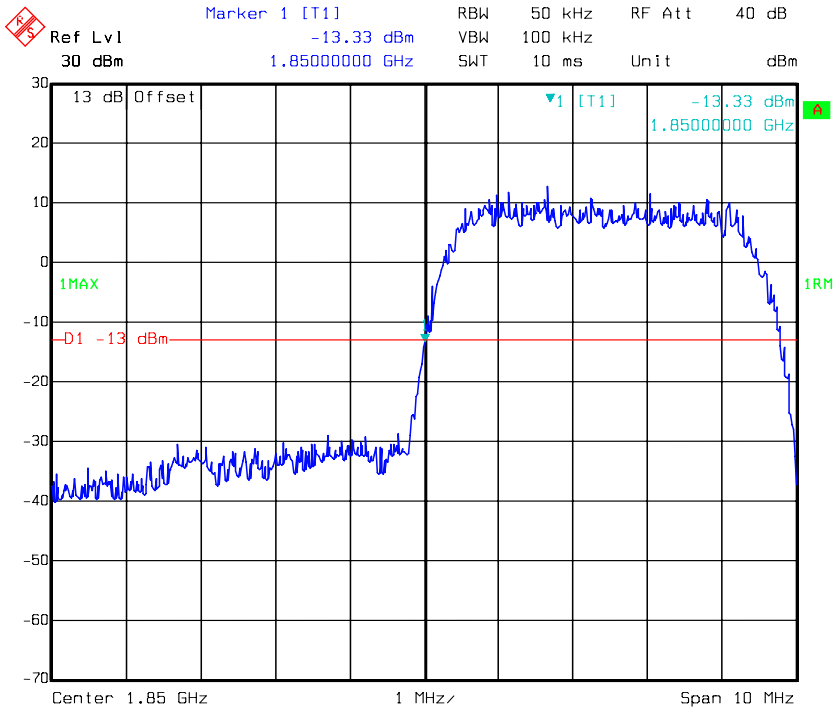
HSDPA Band II, Left Band Edge



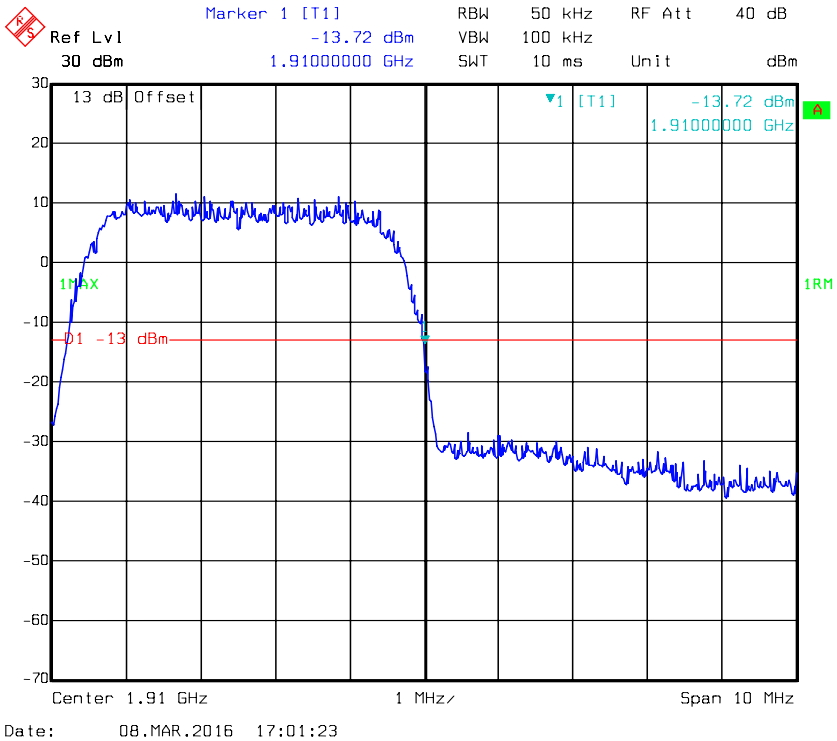
HSDPA Band II, Right Band Edge



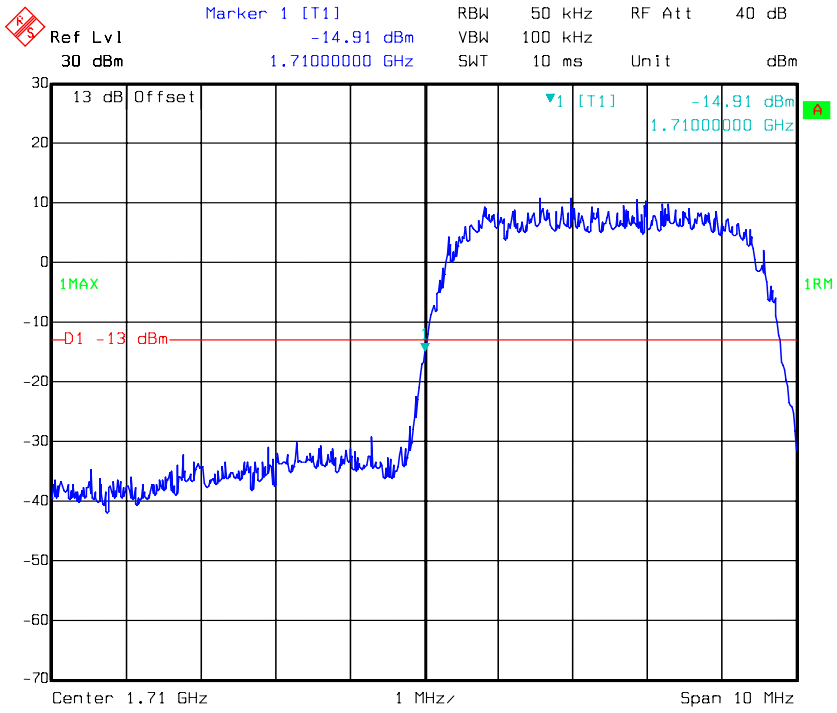
HSUPA Band II, Left Band Edge



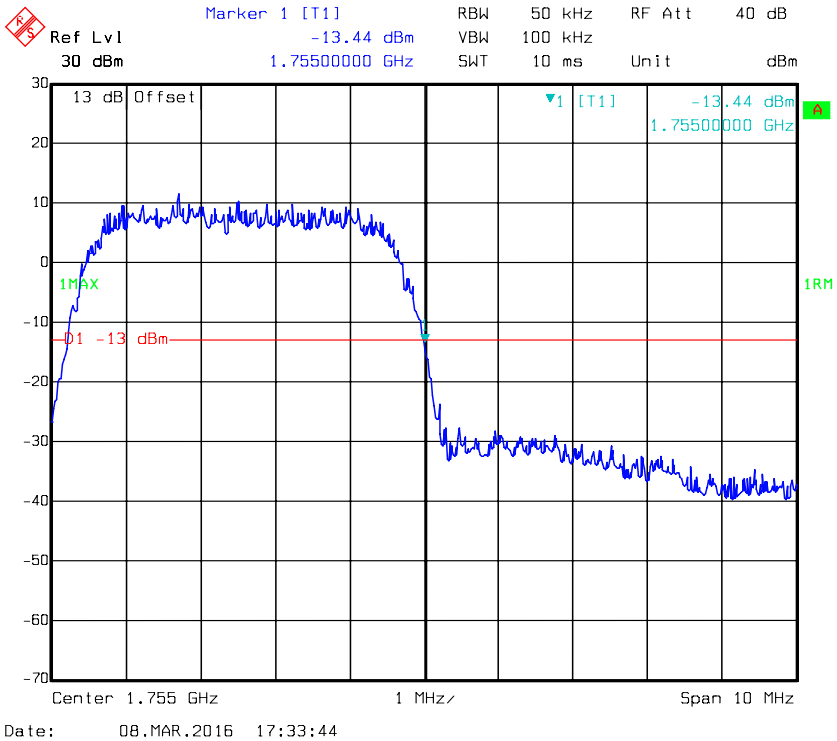
HSUPA Band II, Right Band Edge



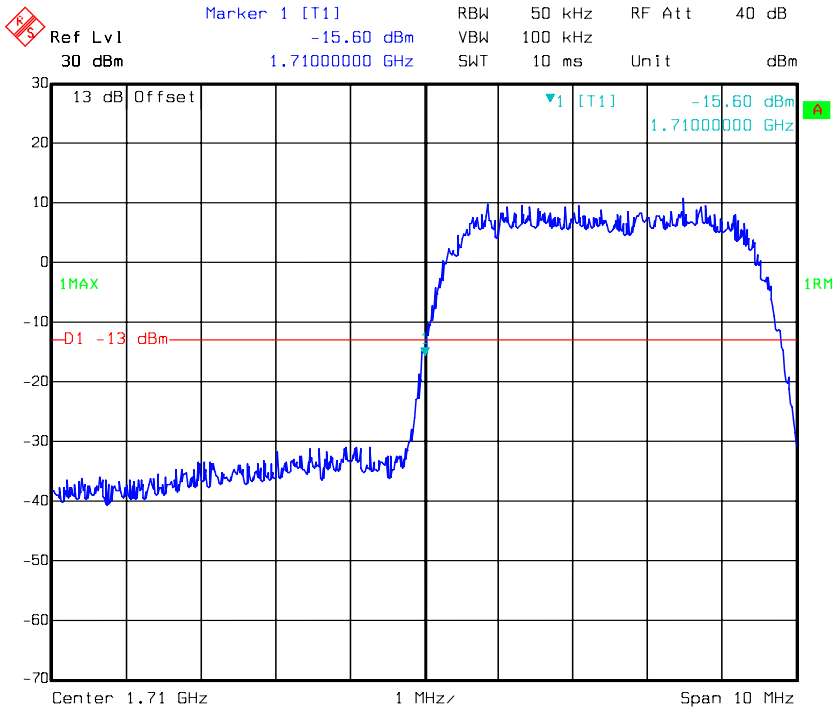
REL99 Band IV, Left Band Edge



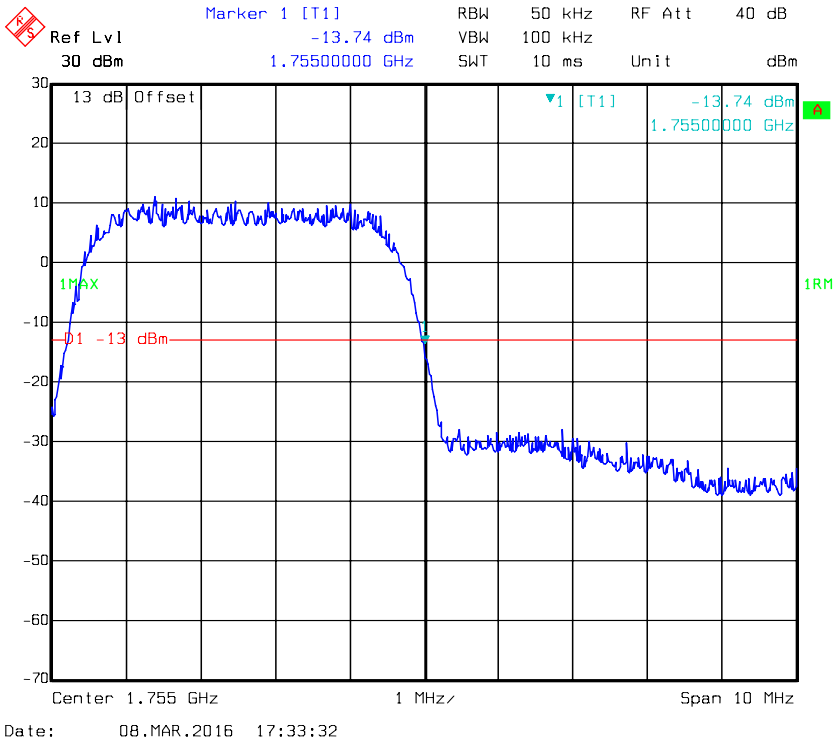
REL99 Band IV, Right Band Edge



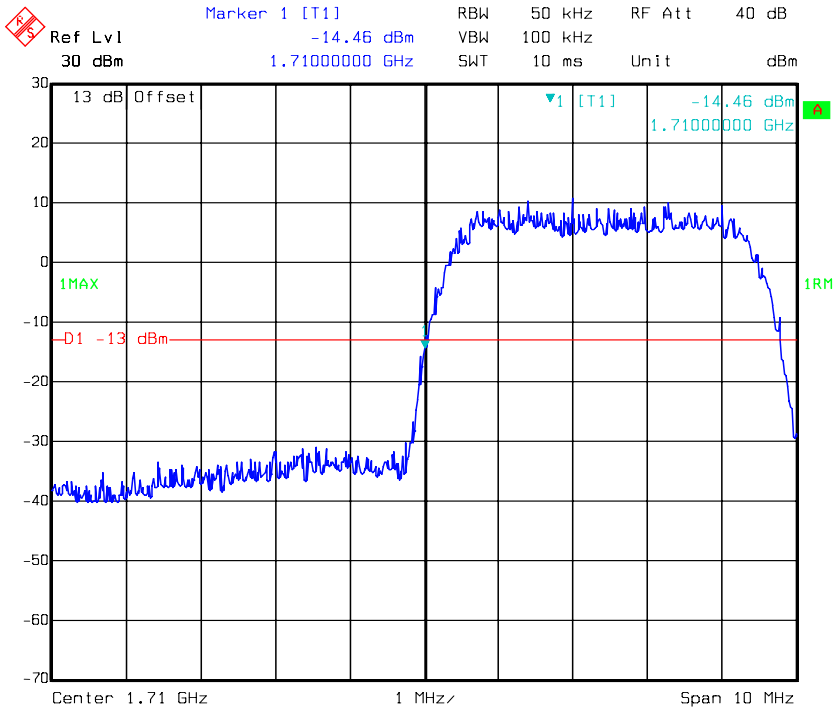
HSDPA Band IV, Left Band Edge



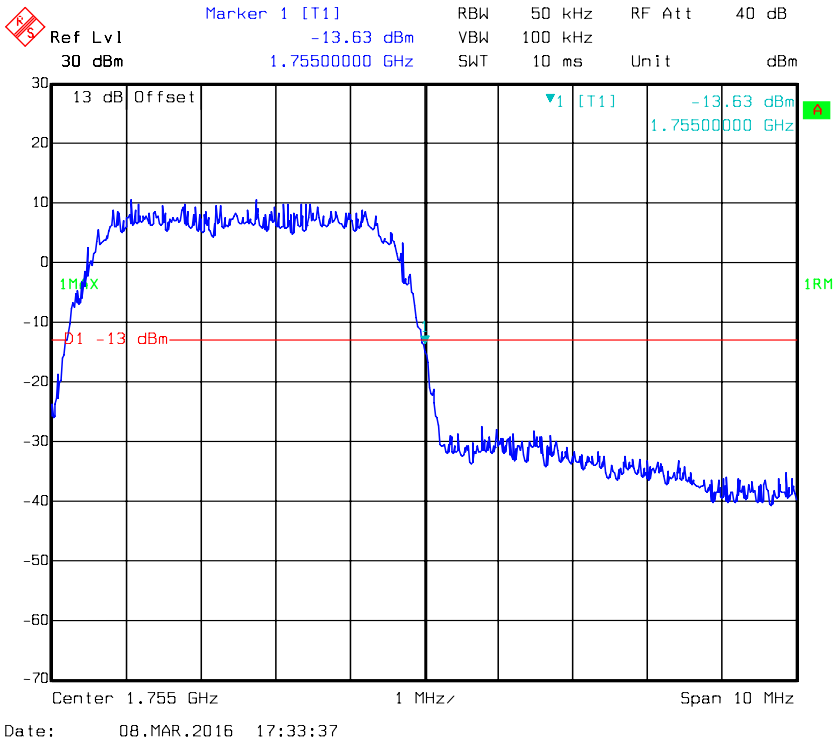
HSDPA Band IV, Right Band Edge



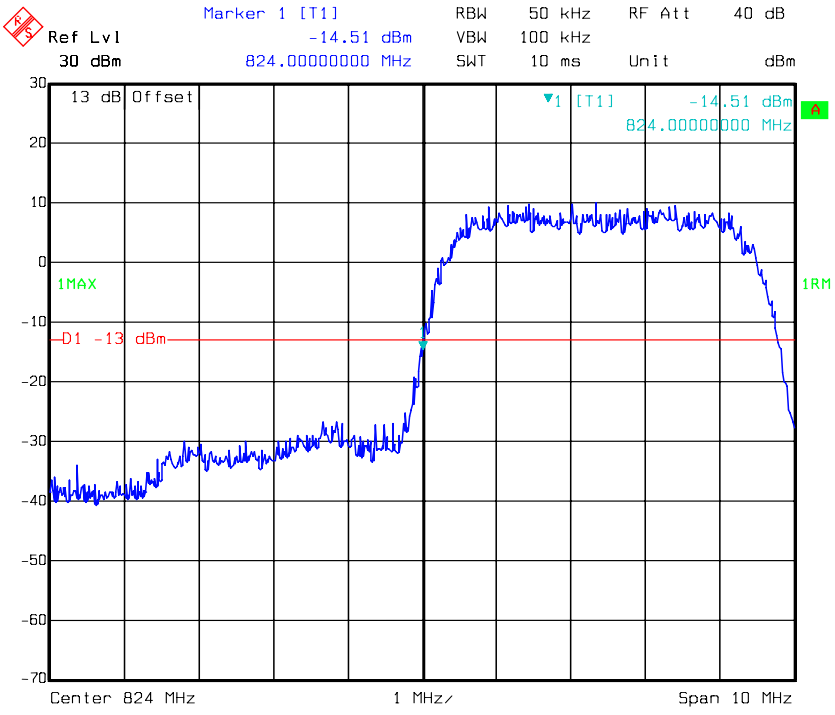
HSUPA Band IV, Left Band Edge



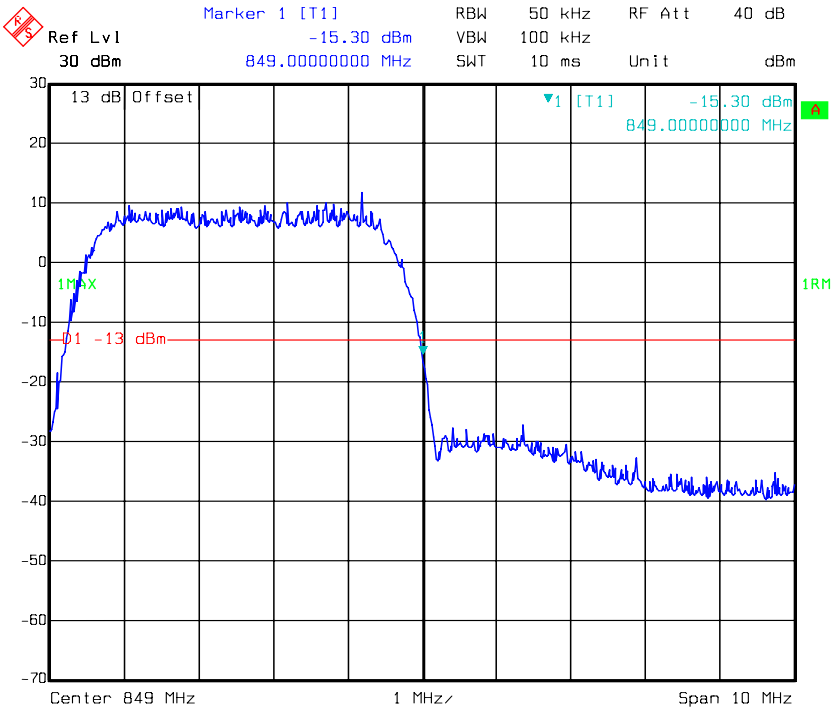
HSUPA Band IV, Right Band Edge



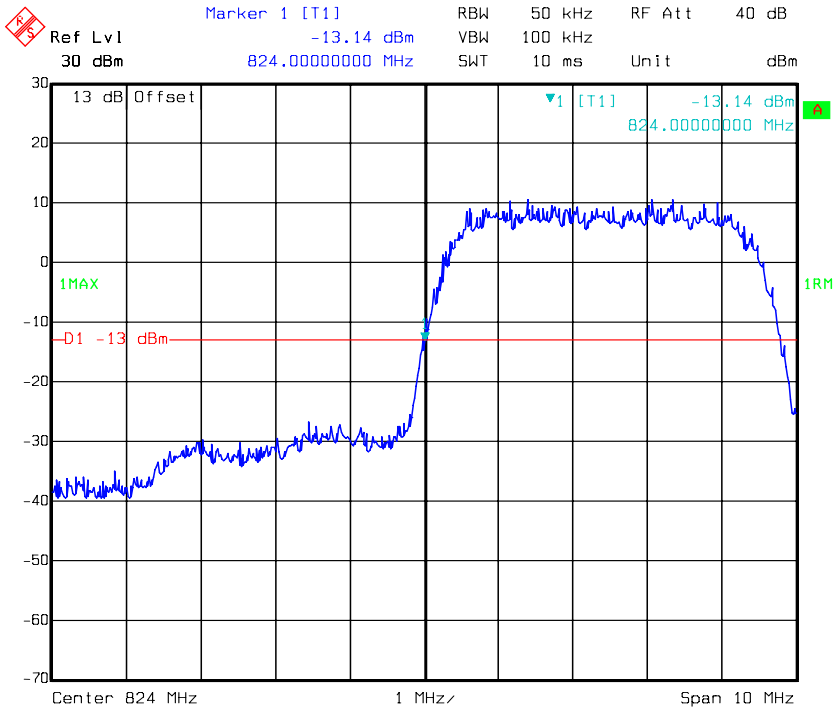
REL99 Band V, Left Band Edge



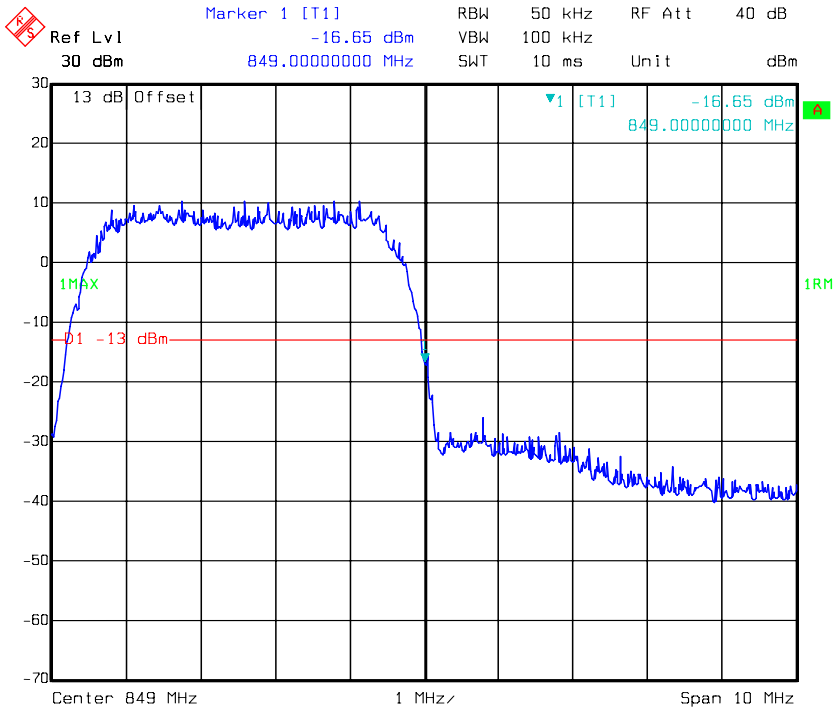
REL99 Band V Right Band Edge



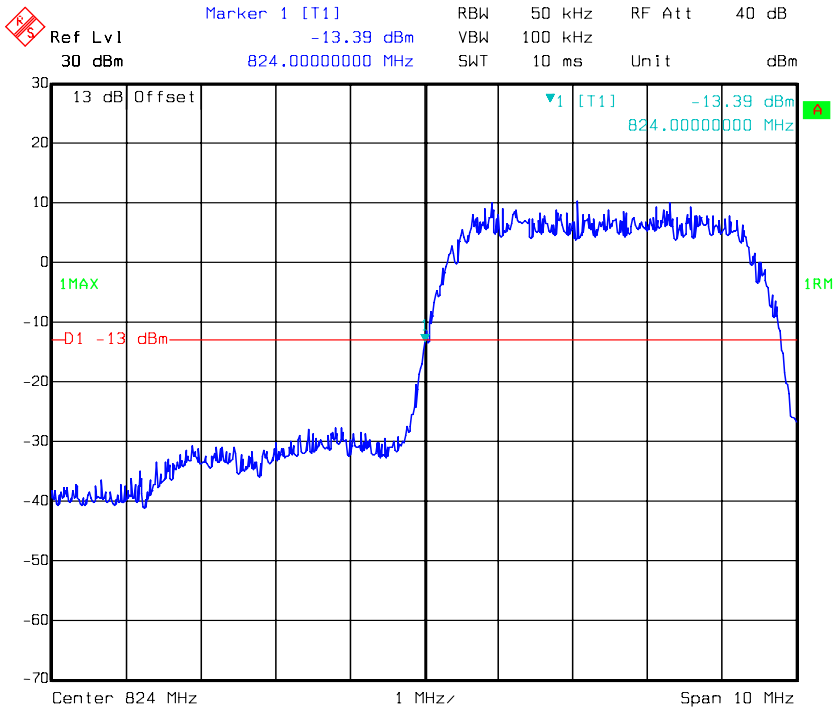
HSDPA Band V, Left Band Edge



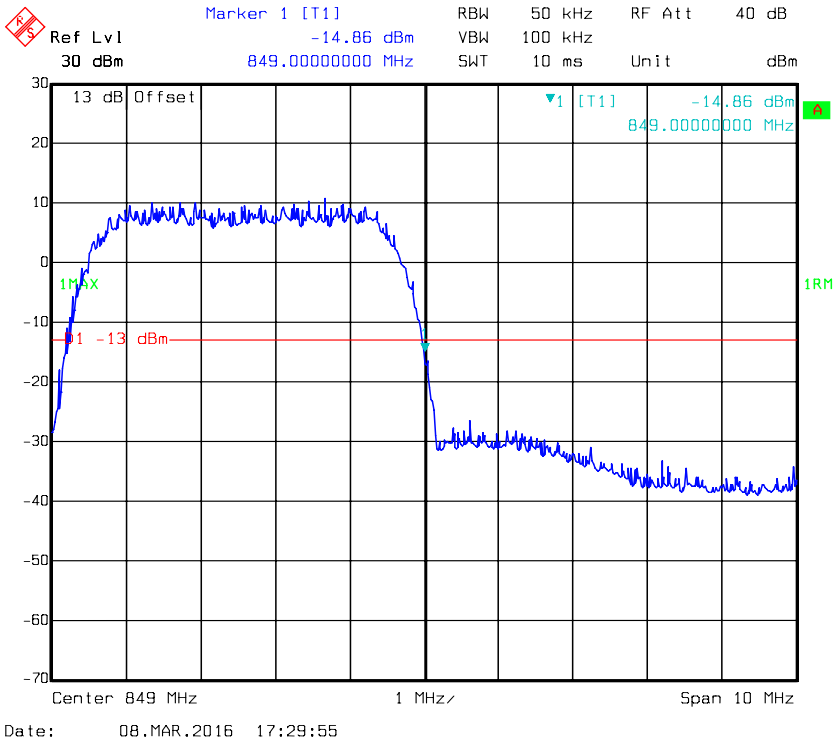
HSDPA Band V, Right Band Edge



HSUPA Band V, Left Band Edge

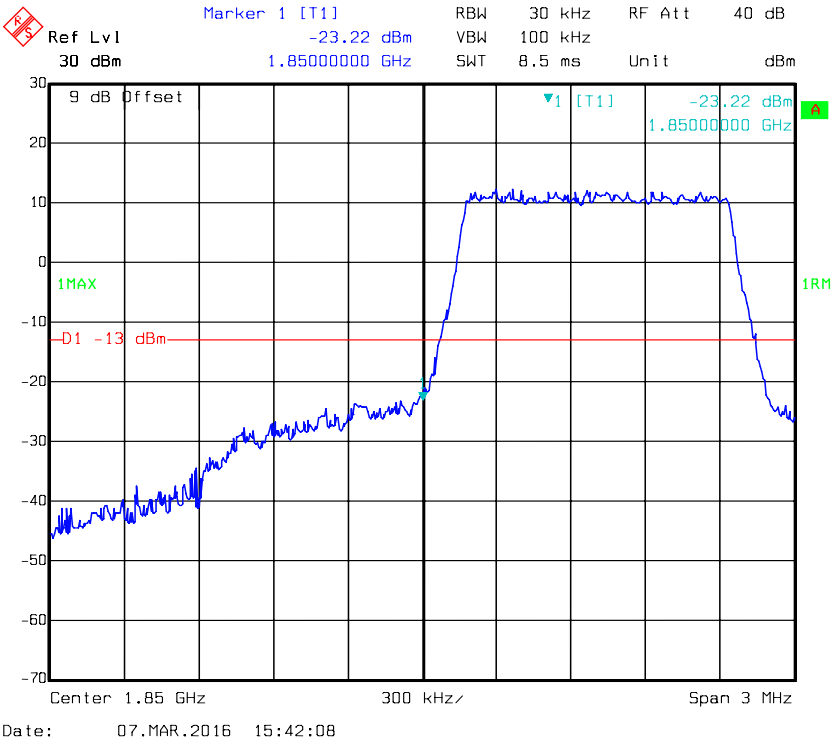


HSUPA Band V, Right Band Edge

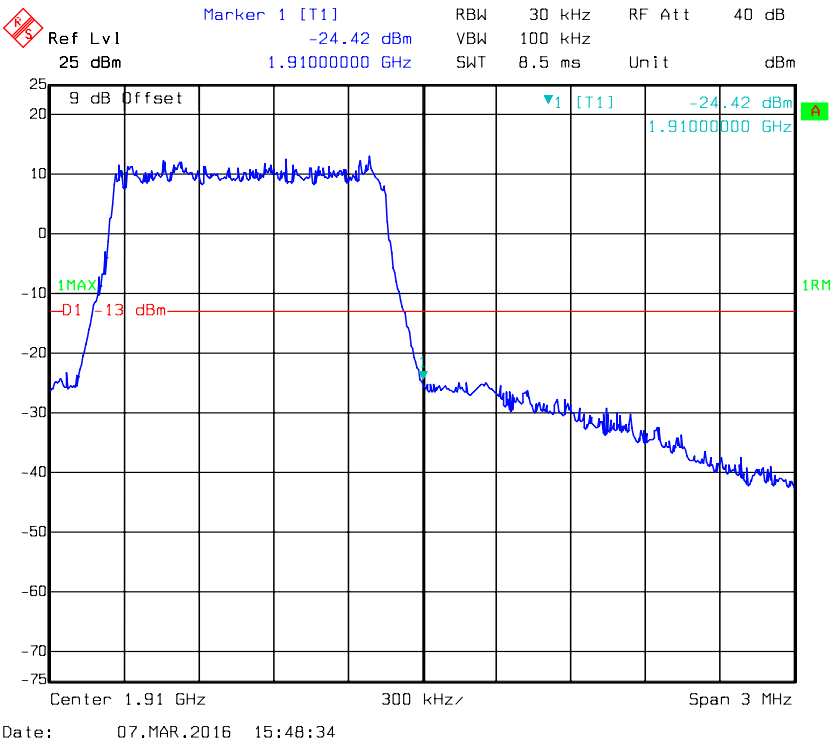


LTE Band 2:

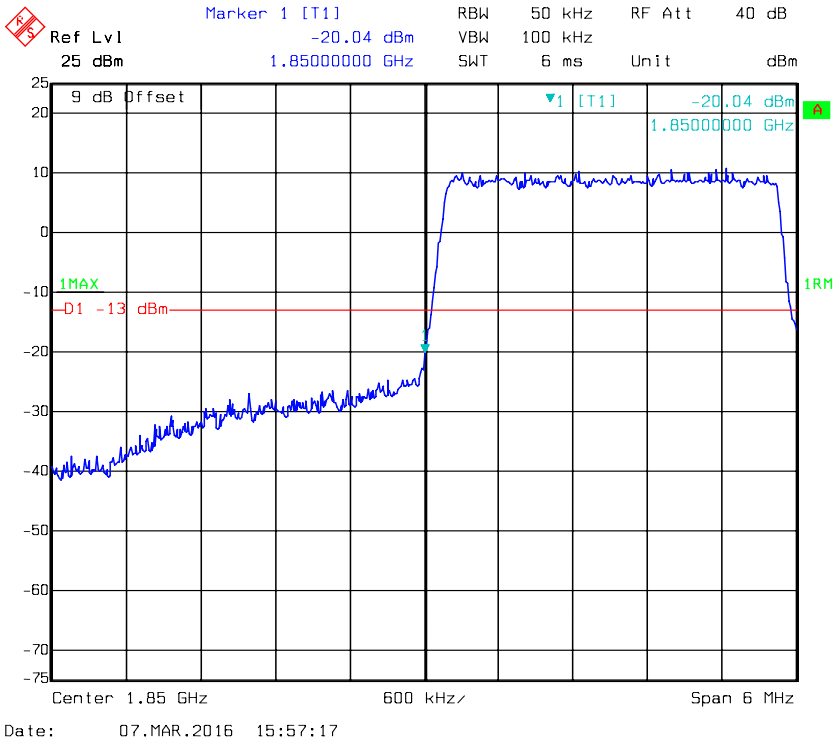
QPSK-1.4M, Left Band Edge



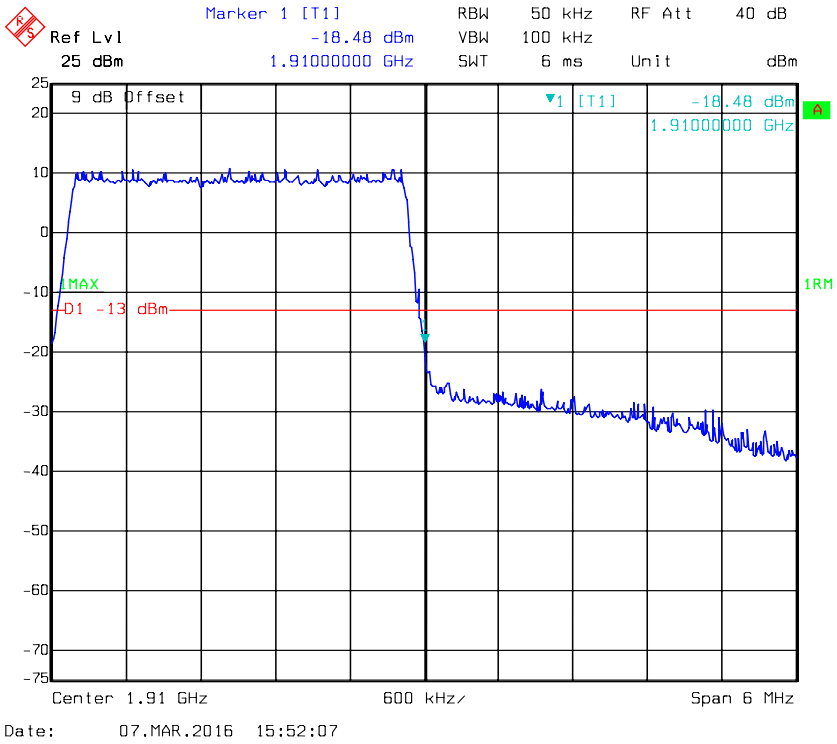
QPSK-1.4M, Right Band Edge



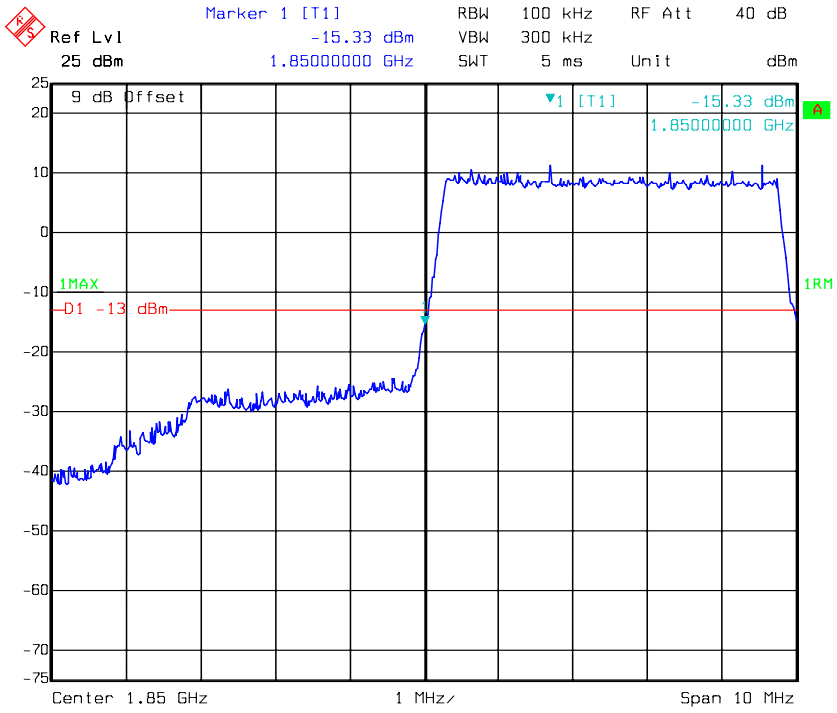
QPSK-3M, Left Band Edge



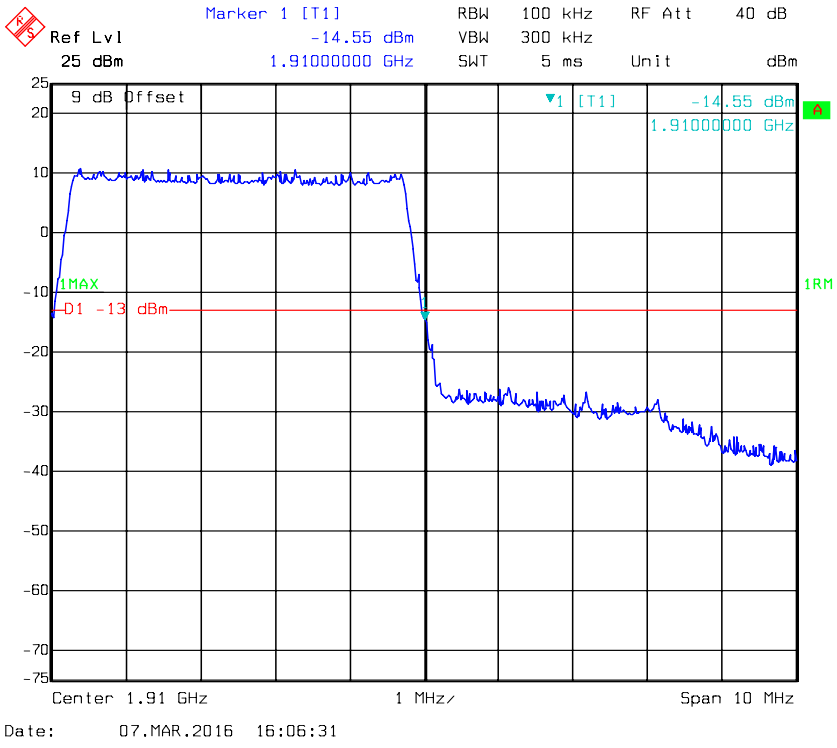
QPSK-3M, Right Band Edge



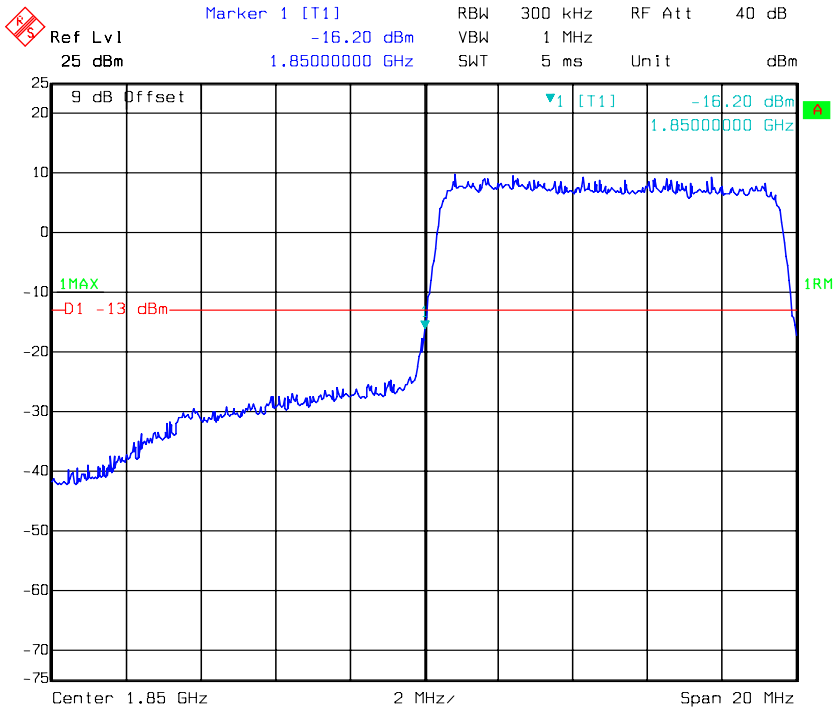
QPSK-5M, Left Band Edge



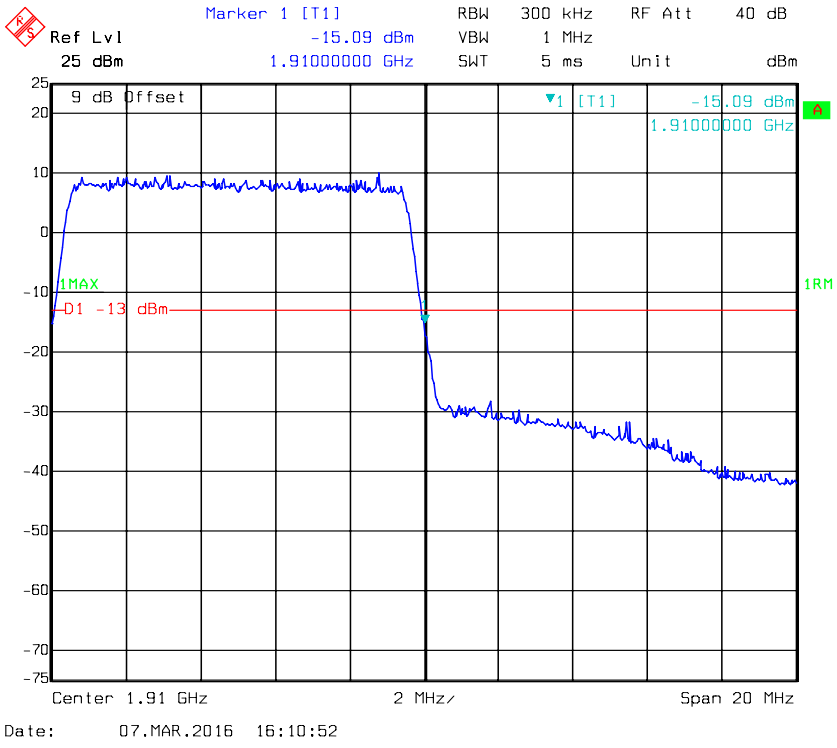
QPSK-5M, Right Band Edge



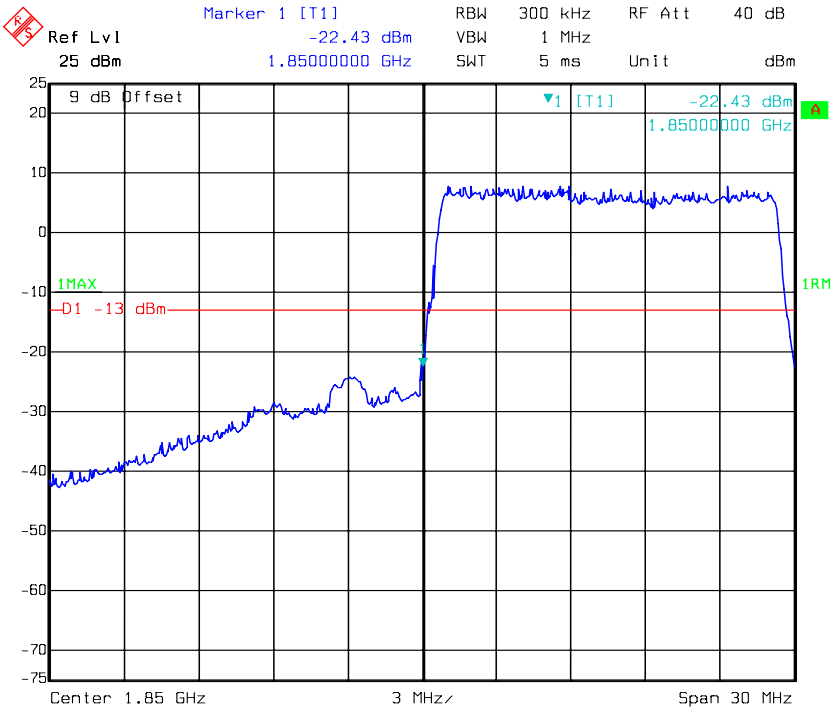
QPSK-10M, Left Band Edge



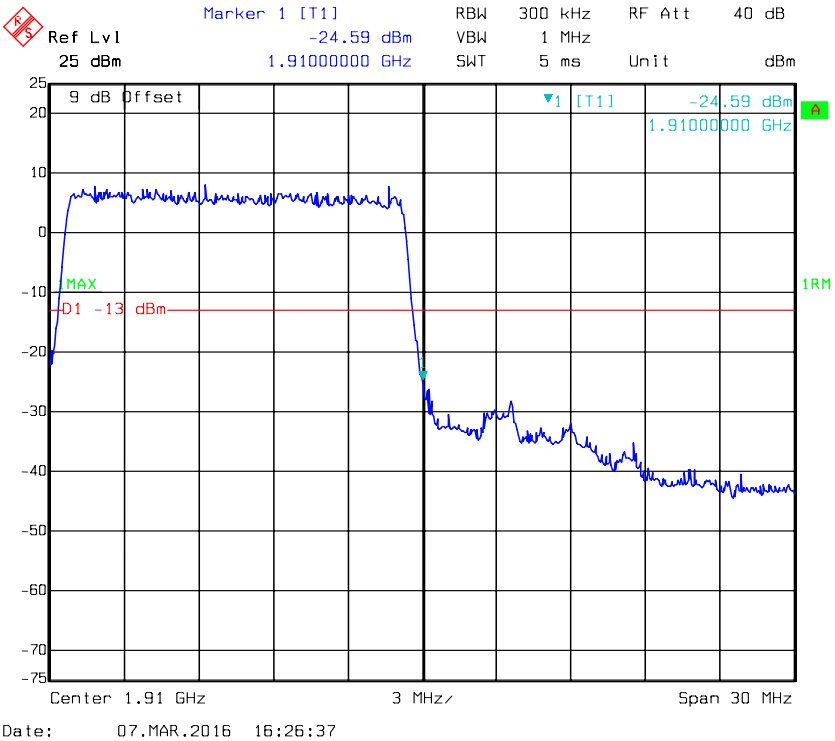
QPSK-10M, Right Band Edge



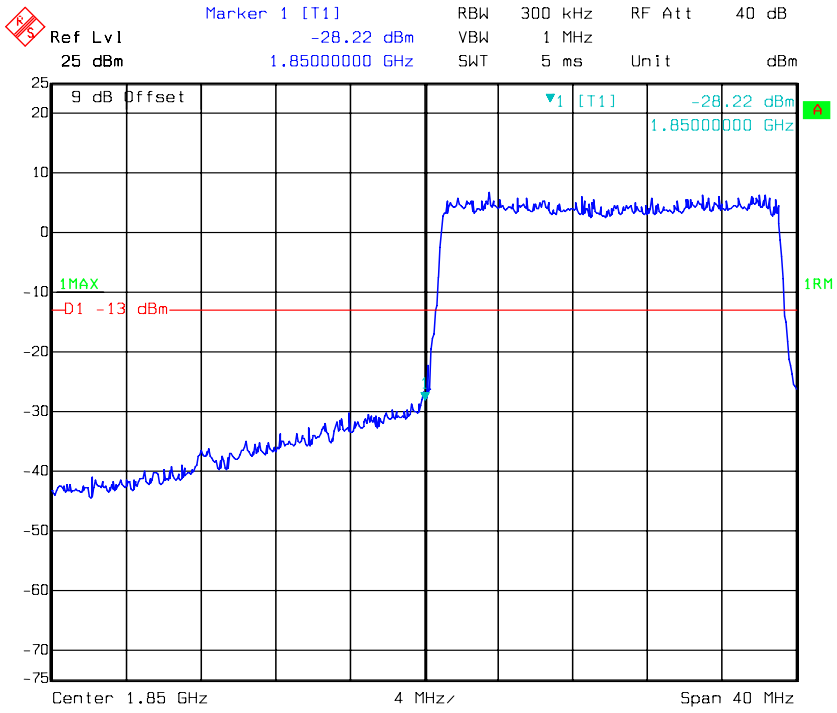
QPSK-15M, Left Band Edge



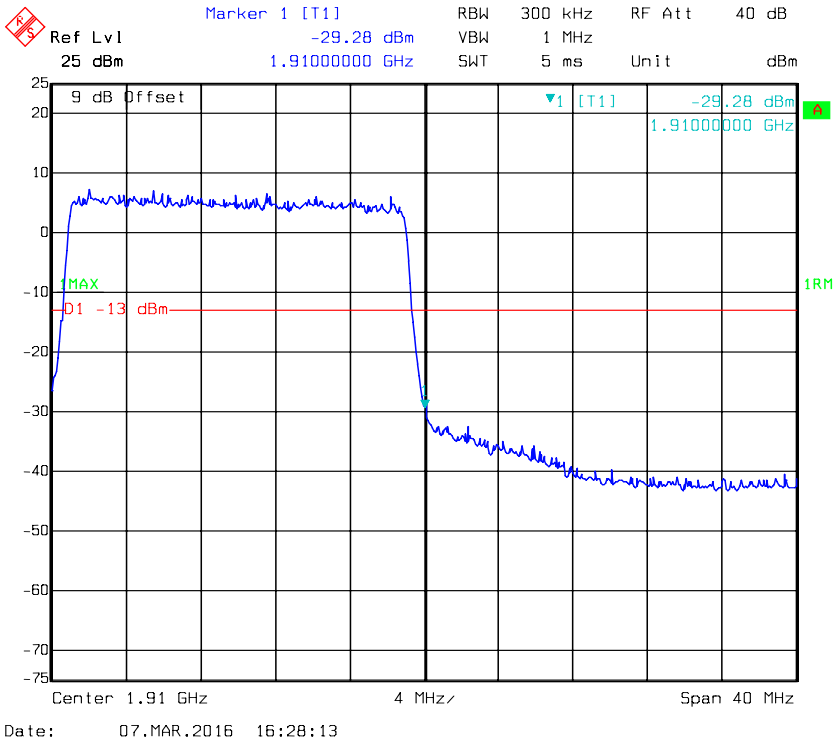
QPSK-15M, Right Band Edge



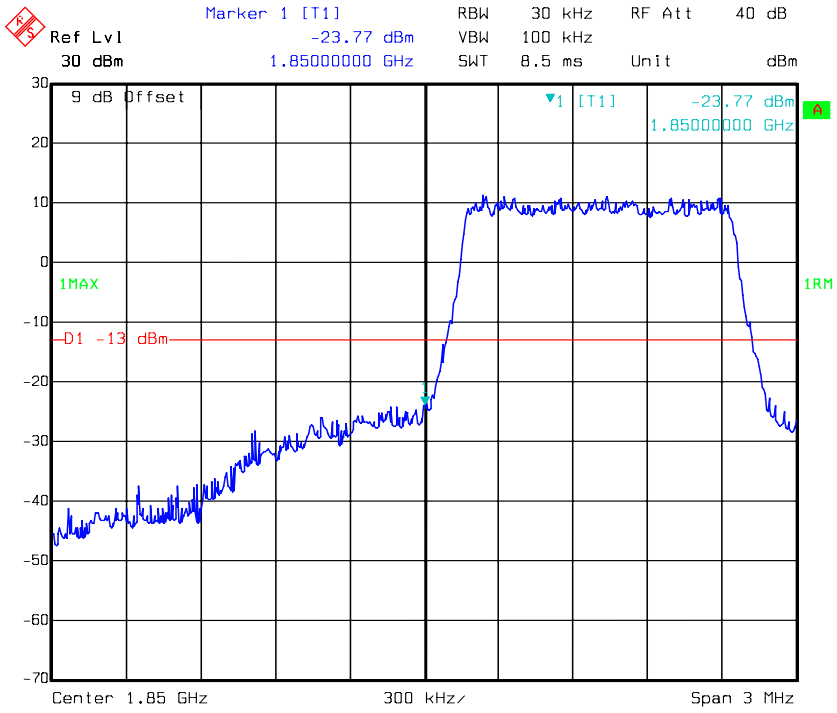
QPSK-20M, Left Band Edge



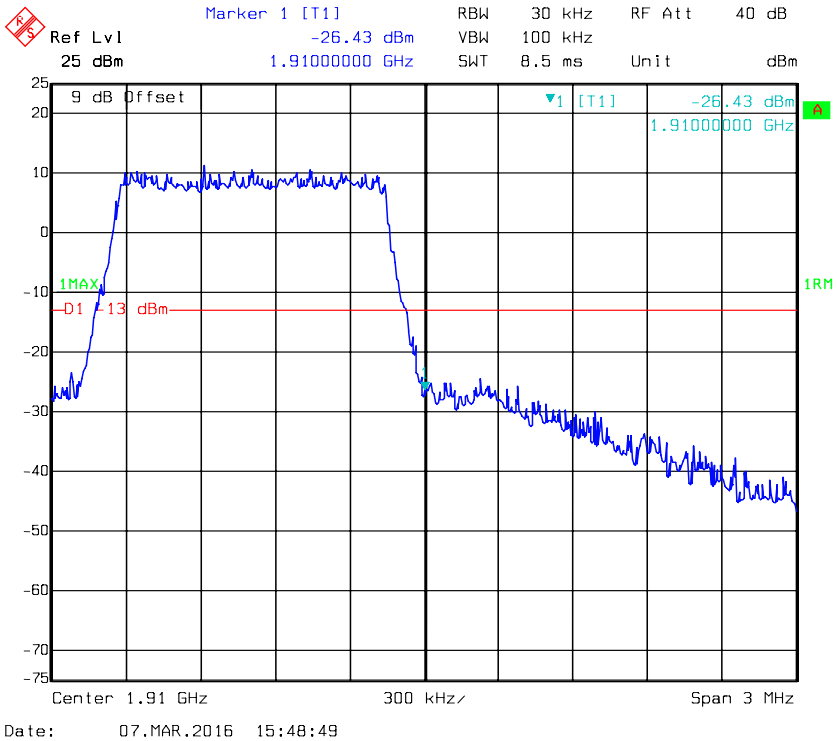
QPSK-20M, Right Band Edge



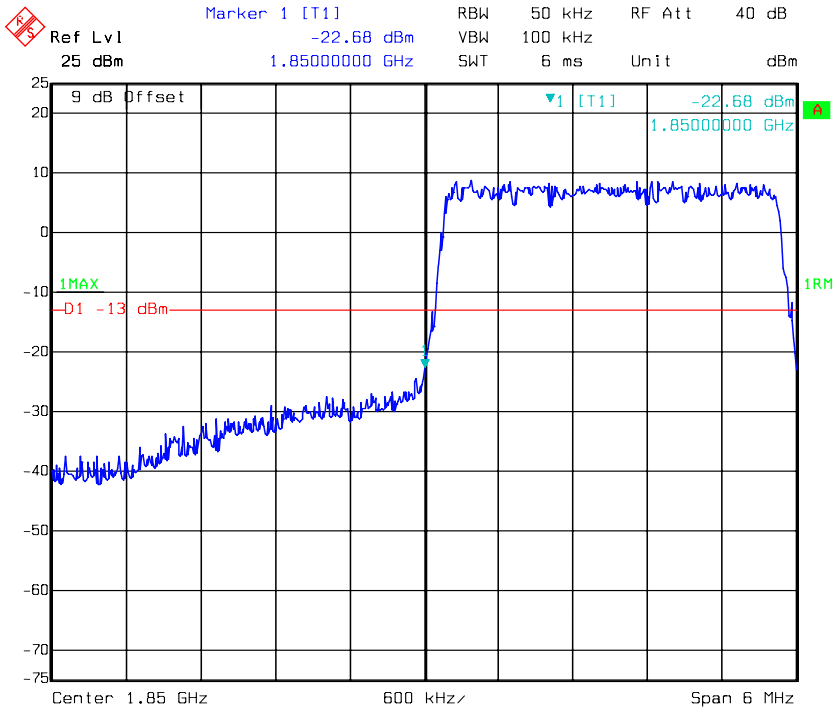
16QAM -1.4M, Left Band Edge



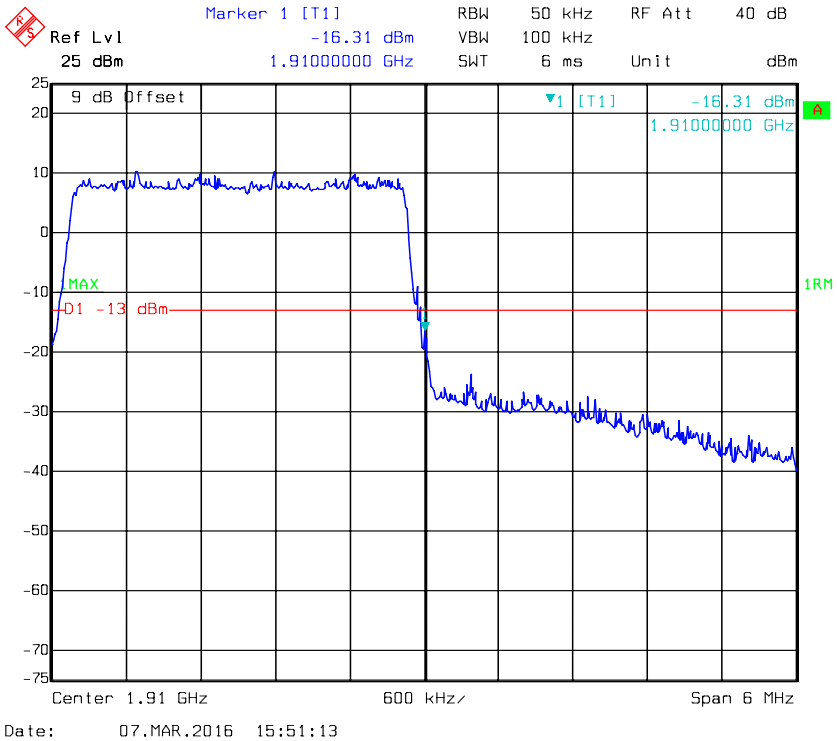
16QAM -1.4M, Right Band Edge



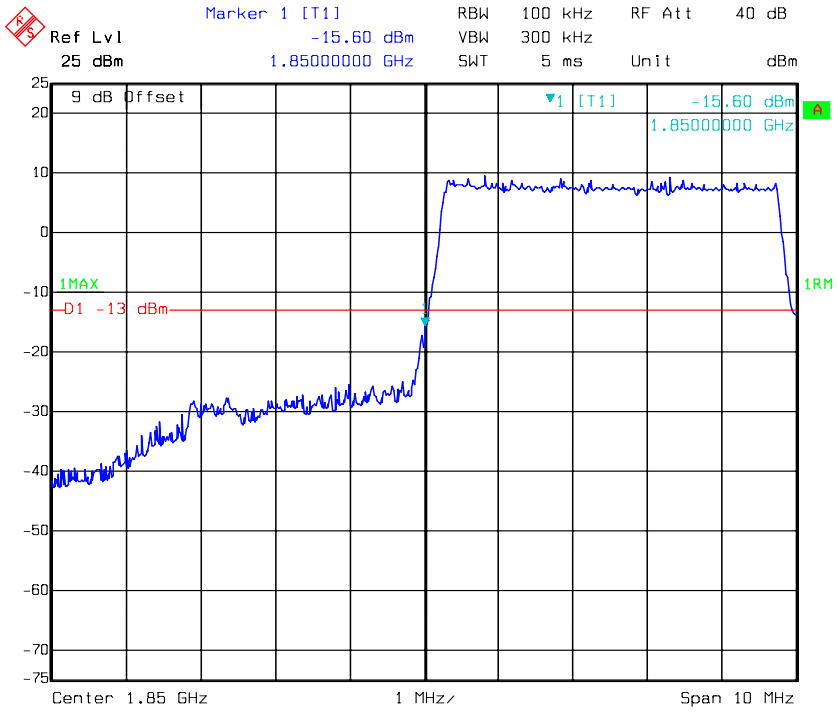
16QAM -3M, Left Band Edge



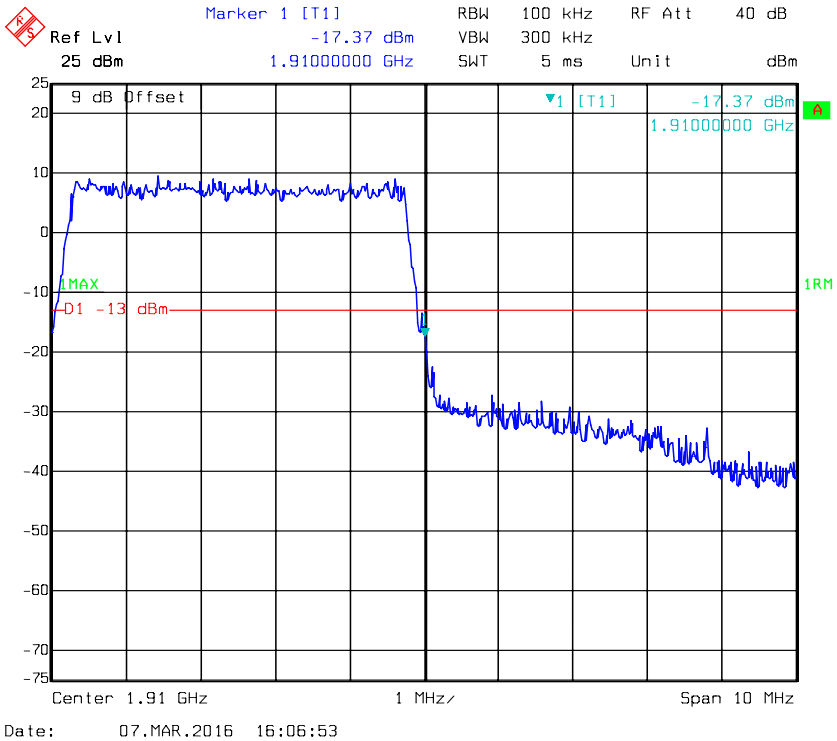
16QAM -3M, Right Band Edge



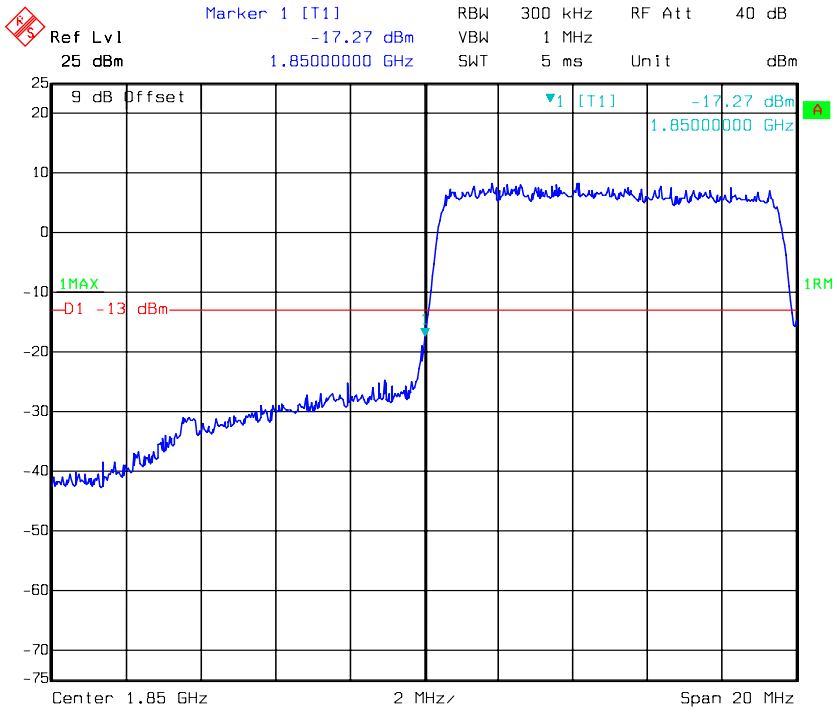
16QAM -5M, Left Band Edge



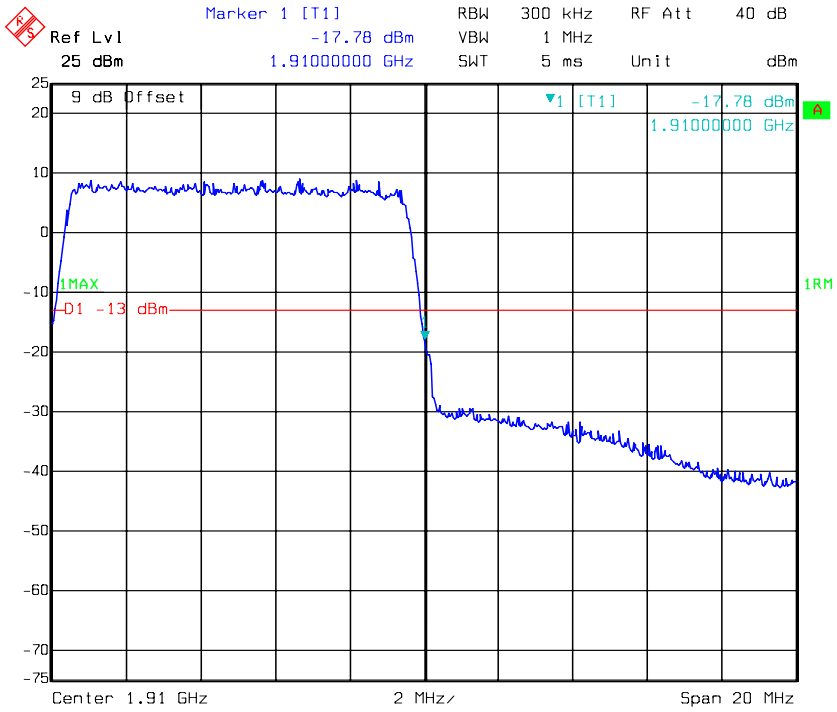
16QAM -5M, Right Band Edge



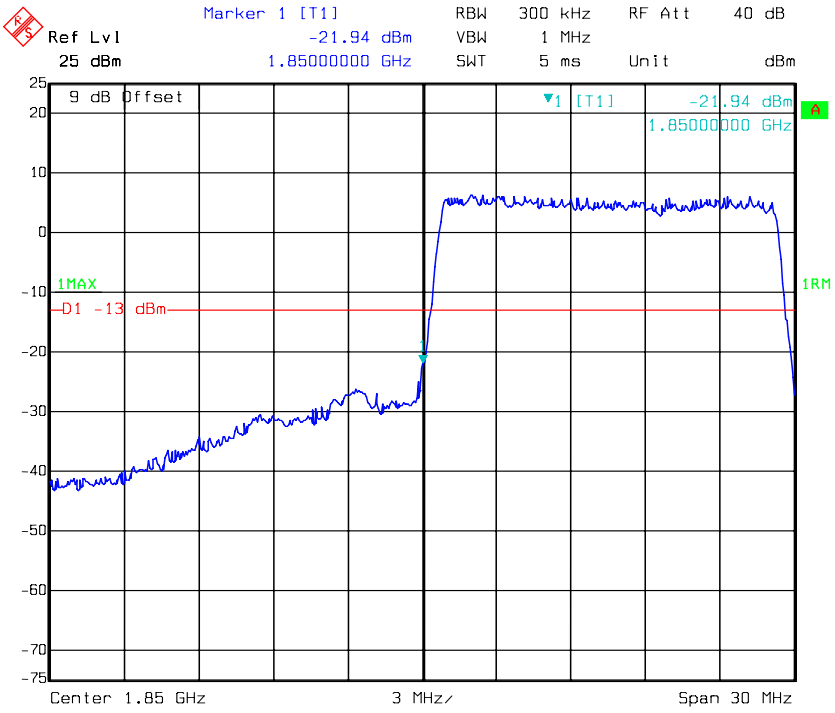
16QAM -10M, Left Band Edge



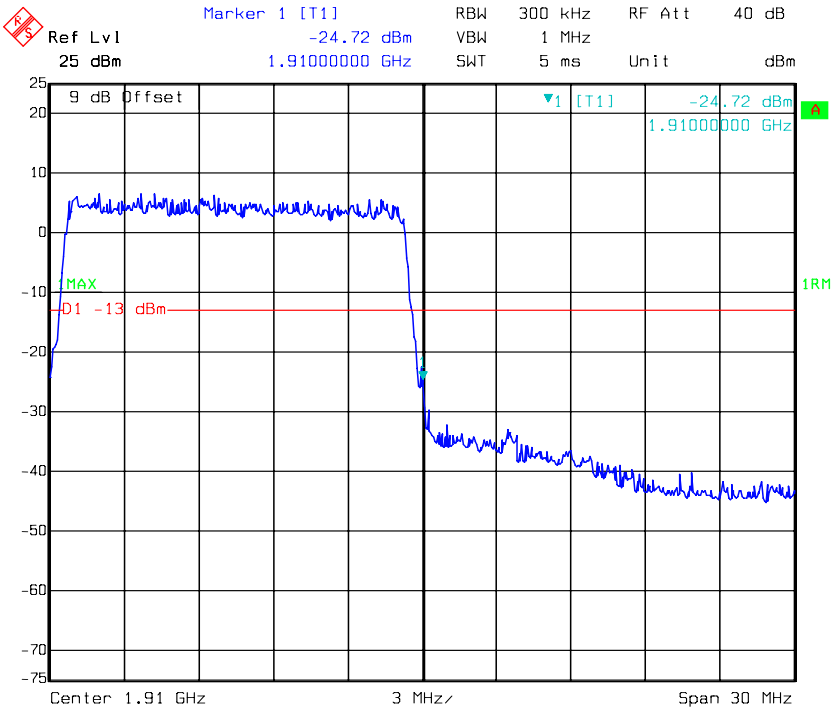
16QAM -10M, Right Band Edge



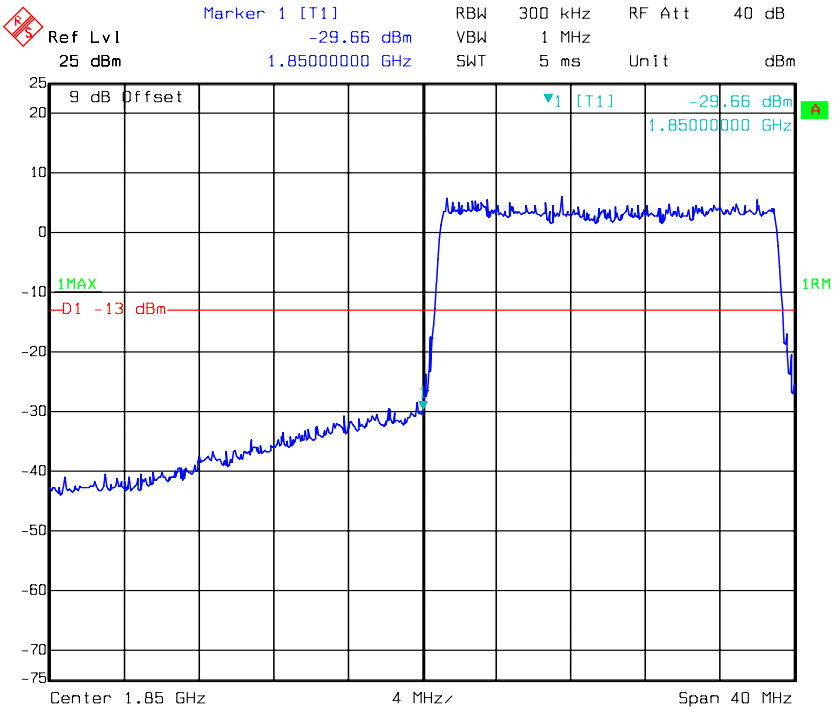
16QAM -15M, Left Band Edge



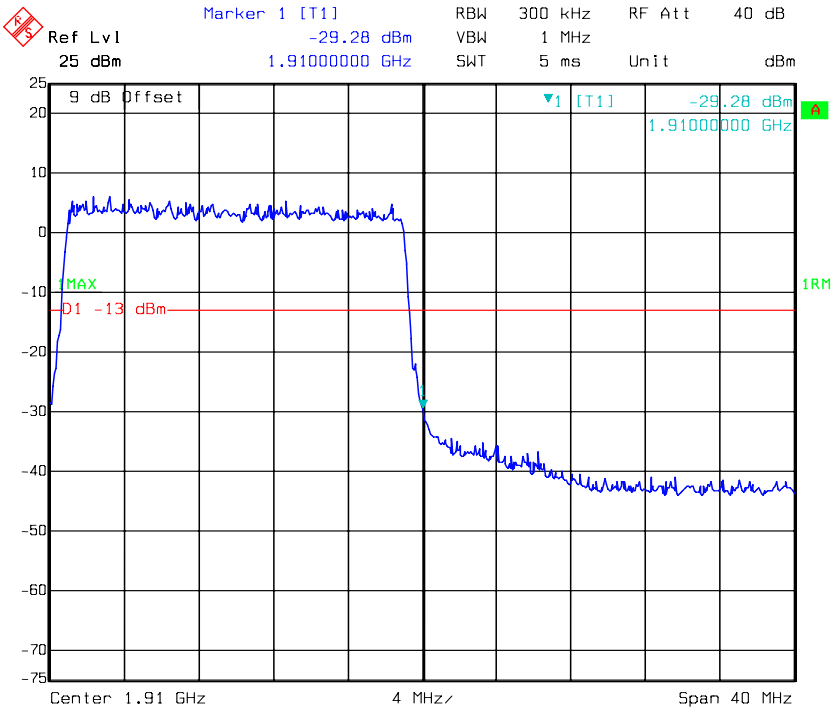
16QAM -15M, Right Band Edge



16QAM -20M, Left Band Edge

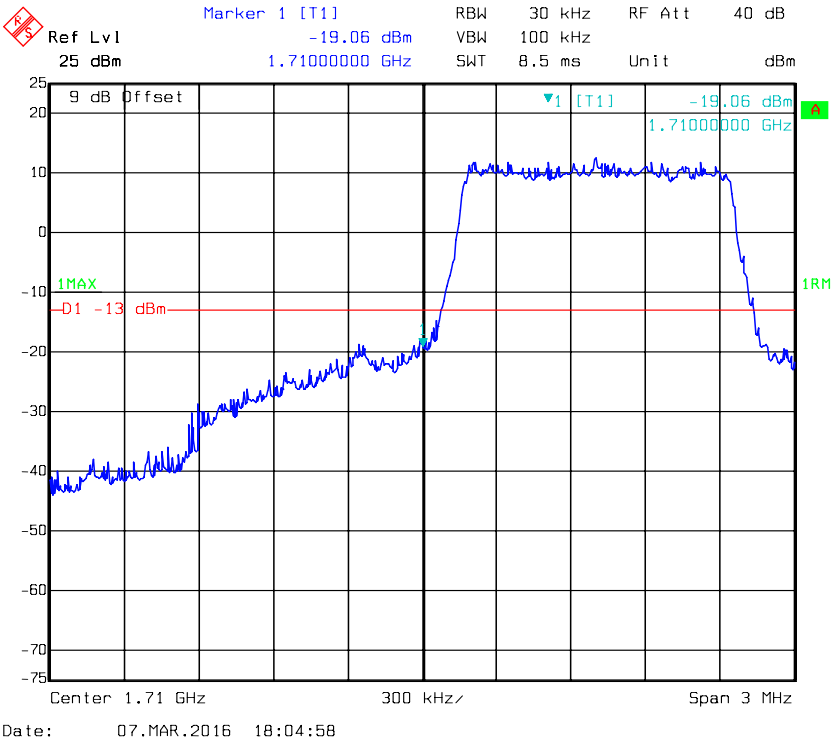


16QAM-20M, Right Band Edge

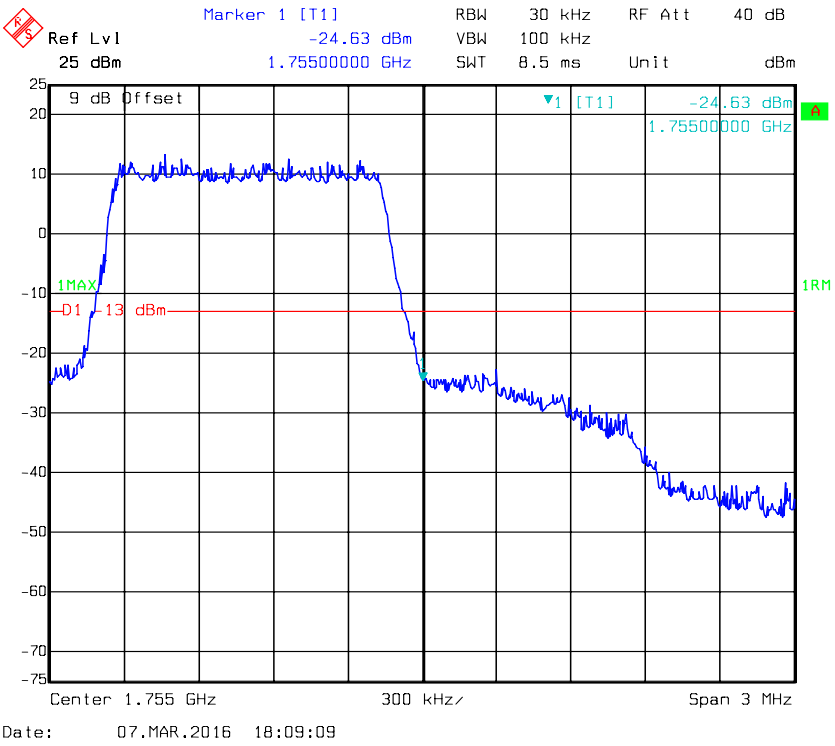


LTE Band 4:

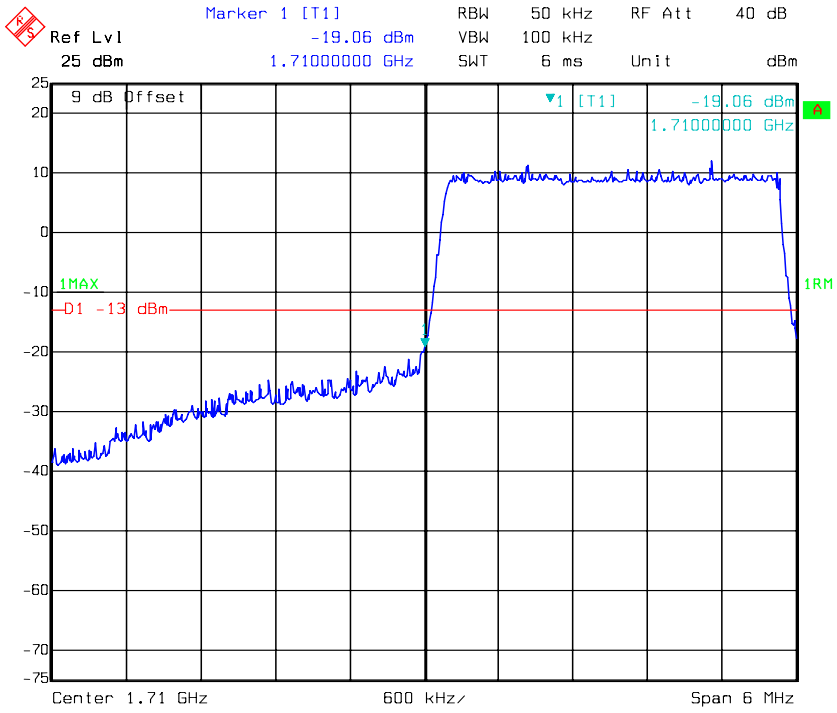
QPSK-1.4M, Left Band Edge



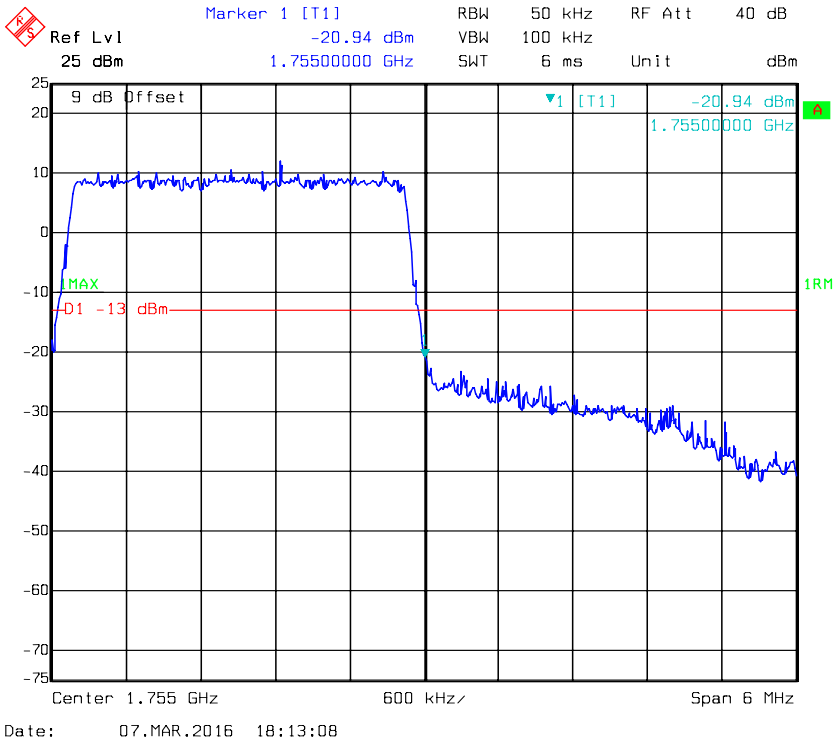
QPSK-1.4M, Right Band Edge



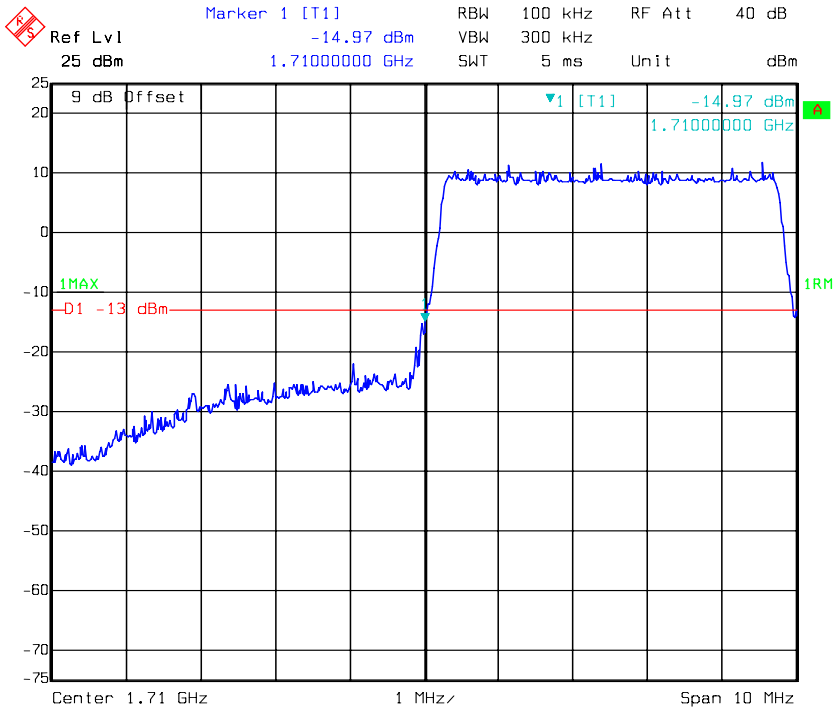
QPSK-3M, Left Band Edge



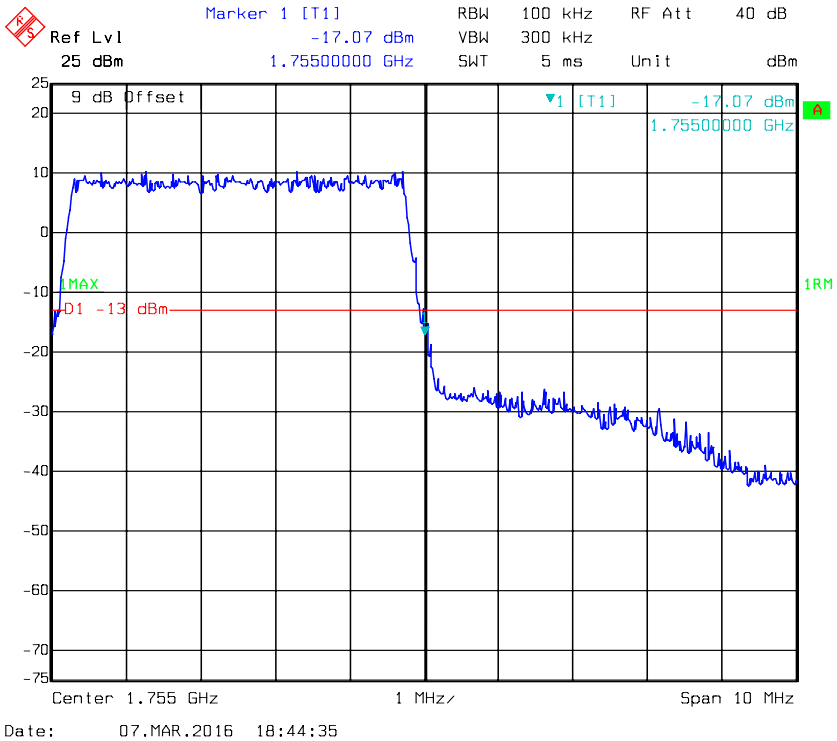
QPSK-3M, Right Band Edge



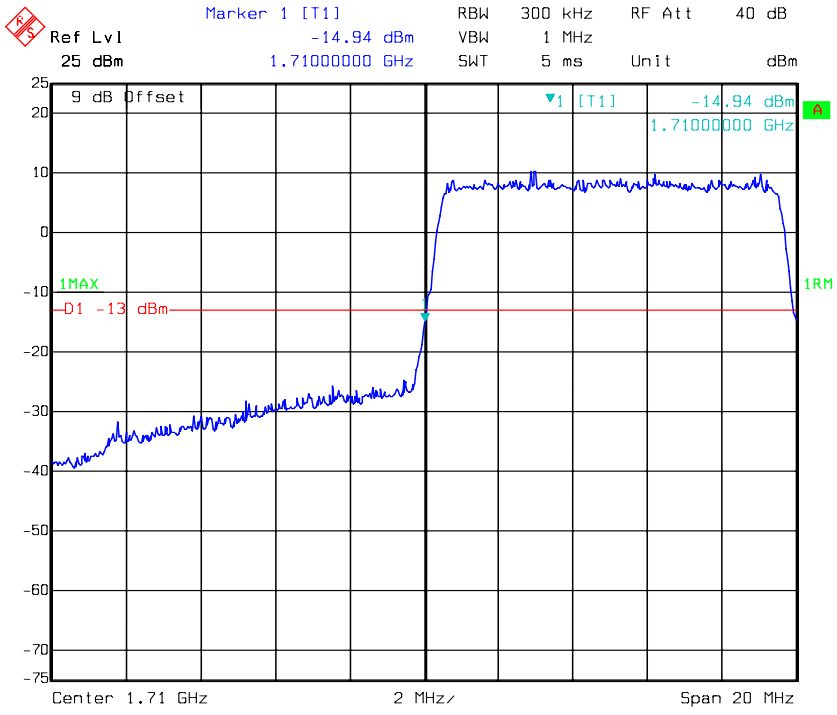
QPSK-5M, Left Band Edge



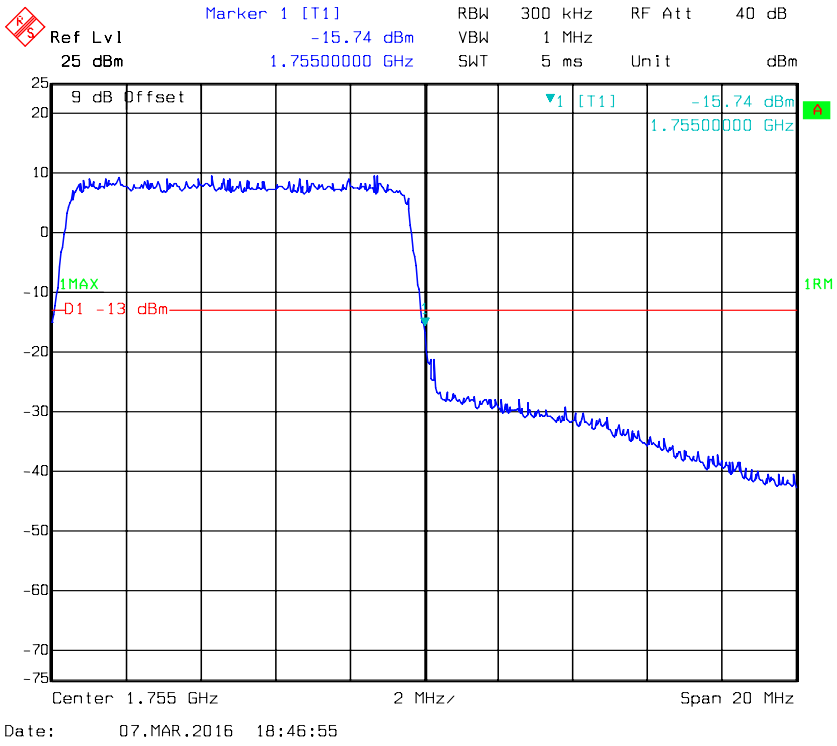
QPSK-5M, Right Band Edge



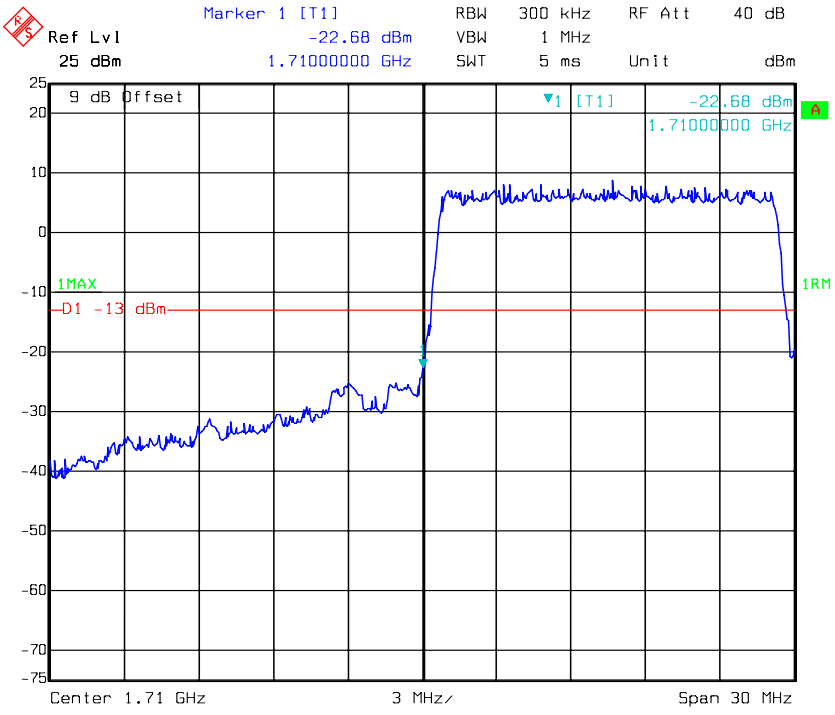
QPSK-10M, Left Band Edge



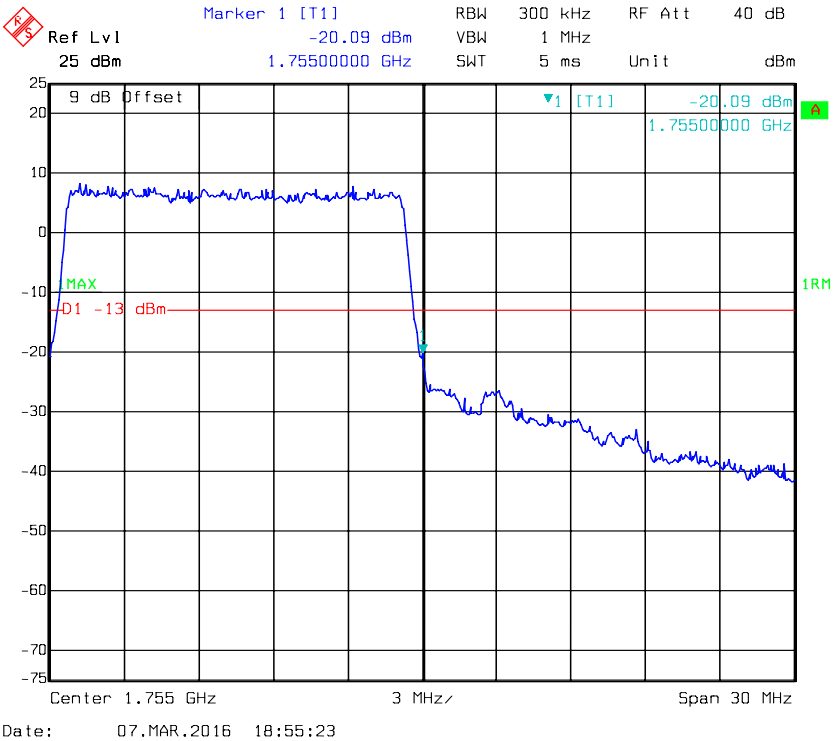
QPSK-10M, Right Band Edge



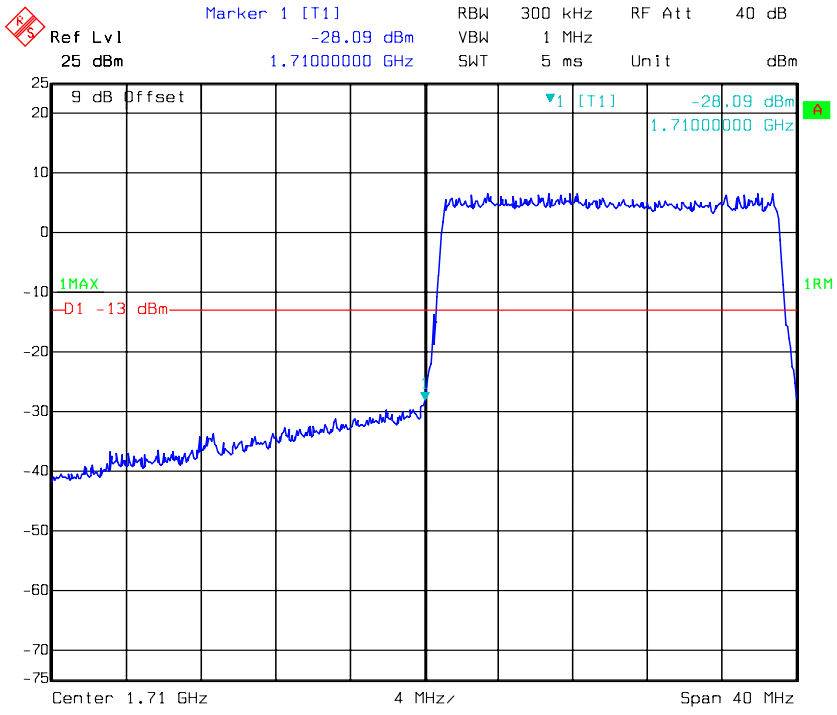
QPSK-15M, Left Band Edge



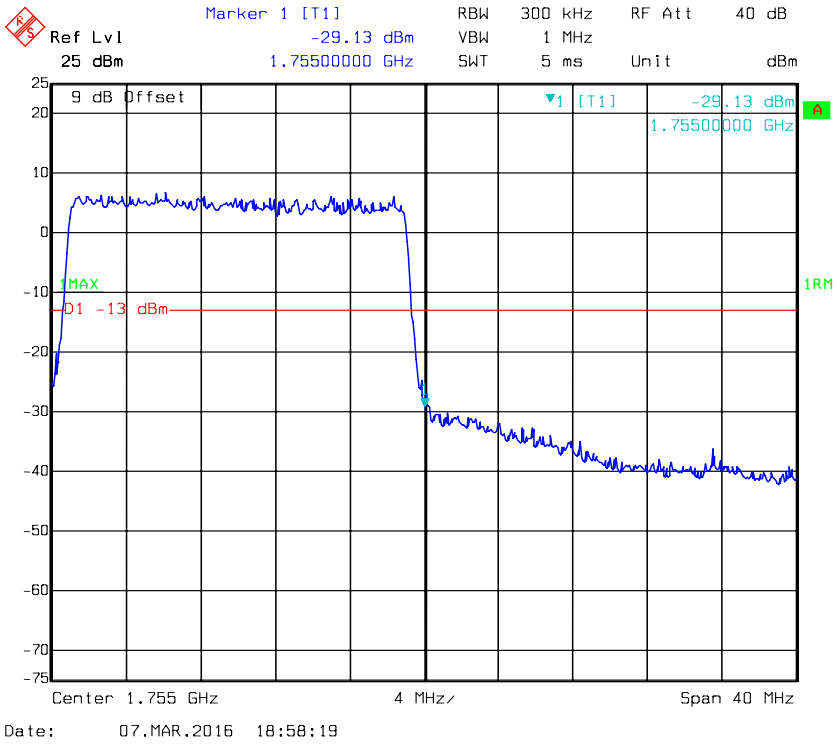
QPSK-15M, Right Band Edge



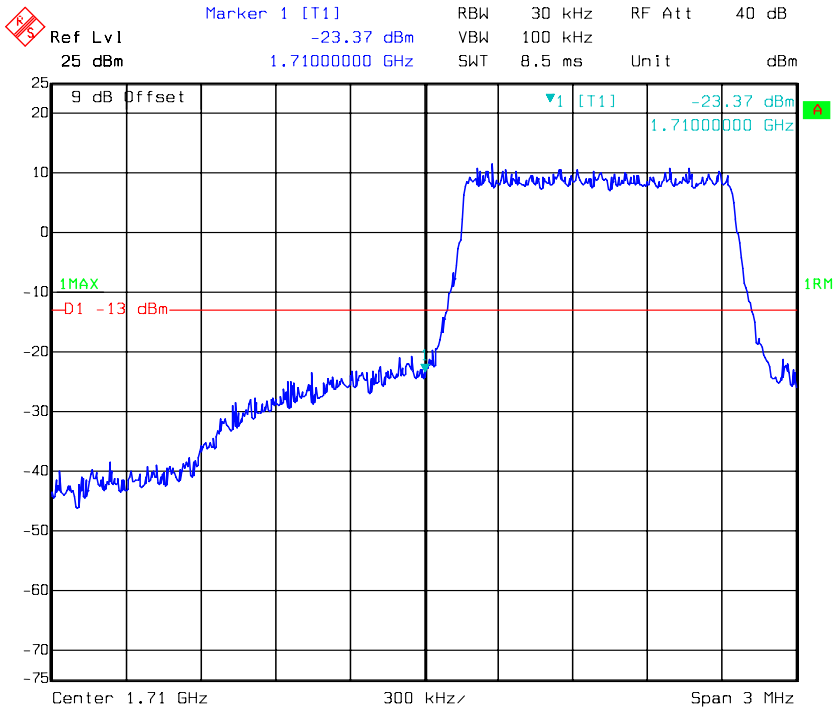
QPSK-20M, Left Band Edge



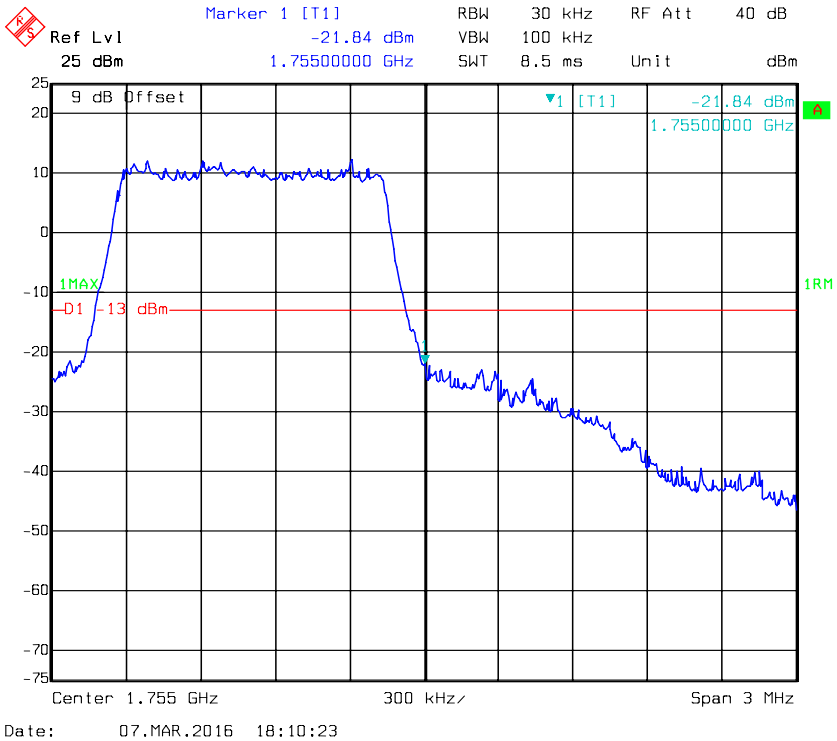
QPSK-20M, Right Band Edge



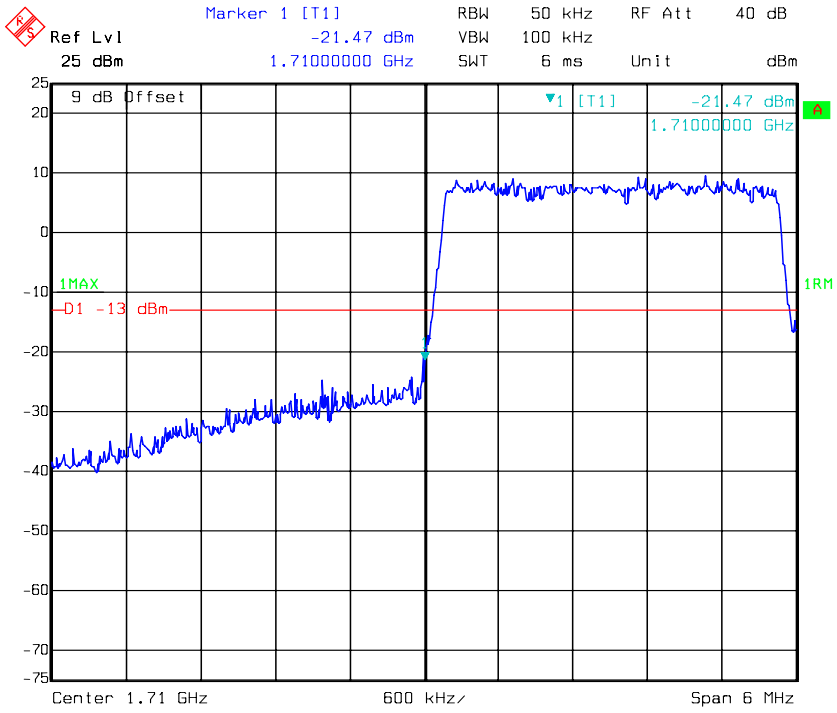
16QAM -1.4M, Left Band Edge



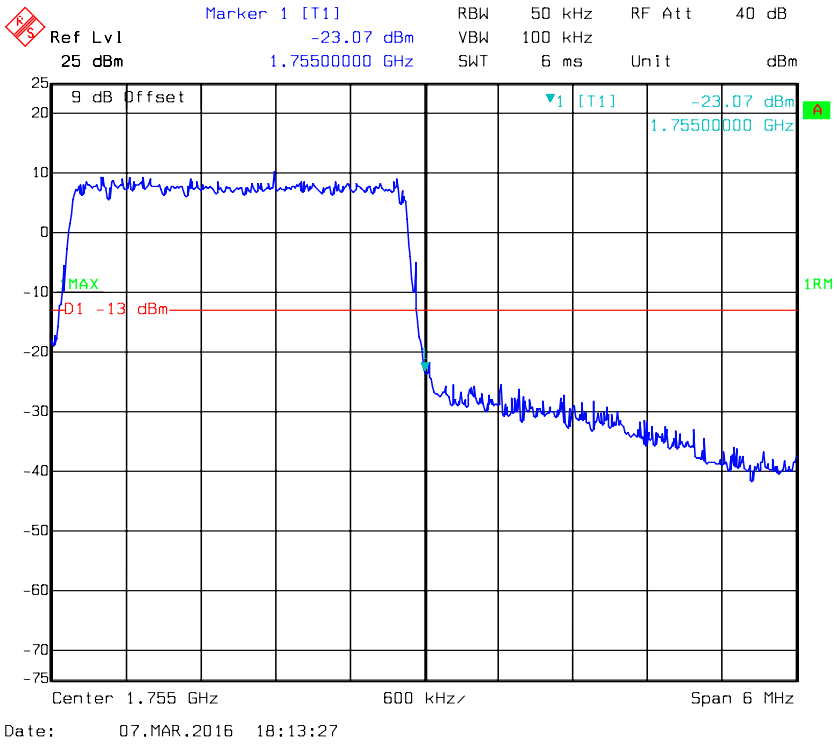
16QAM -1.4M, Right Band Edge



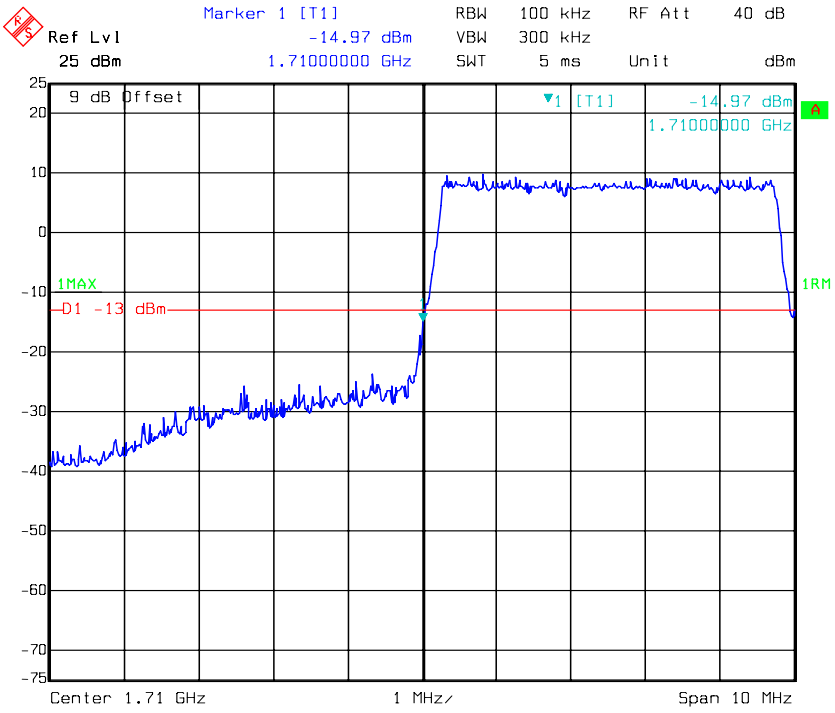
16QAM -3M, Left Band Edge



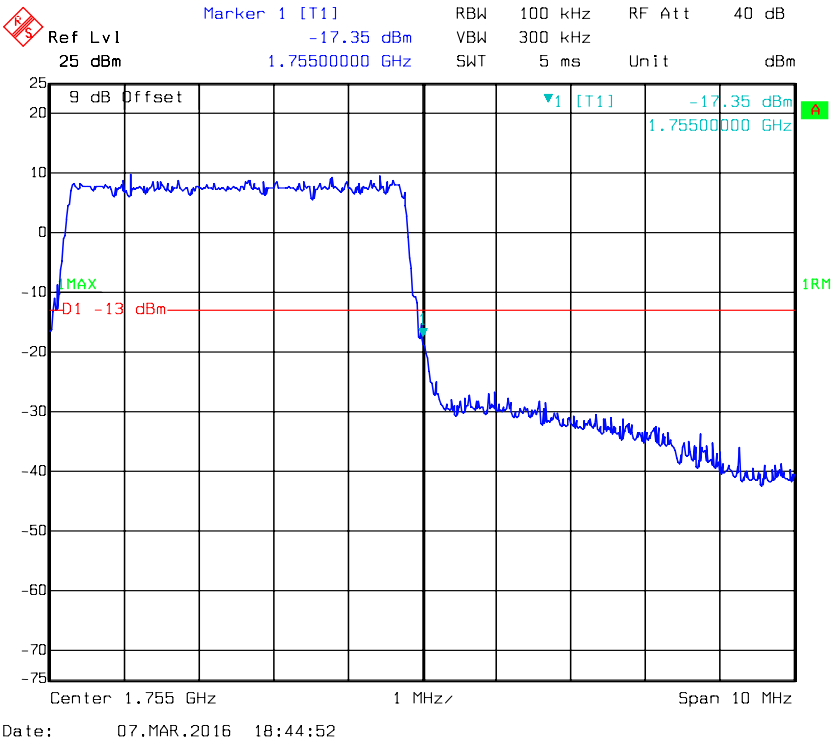
16QAM -3M, Right Band Edge



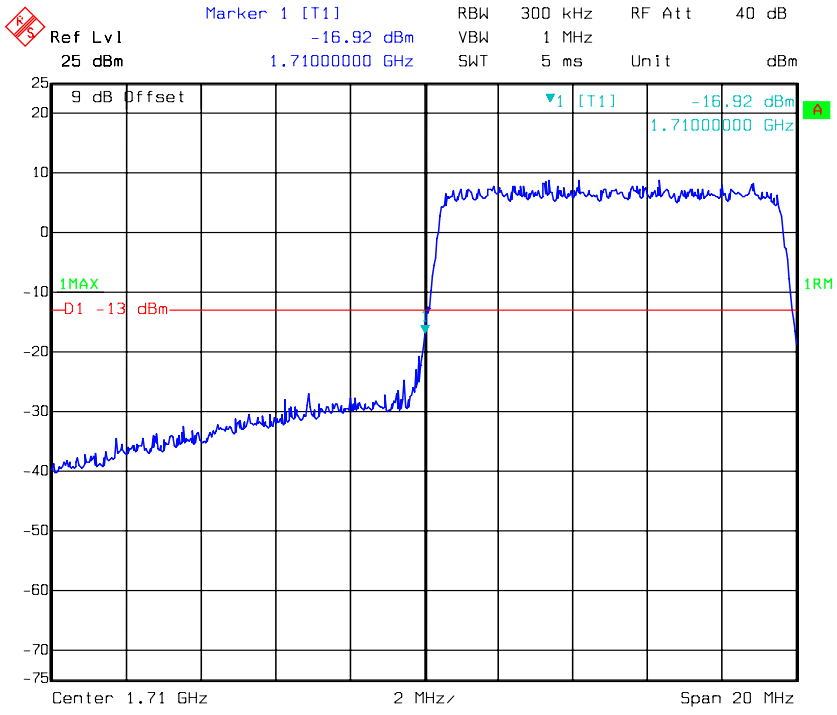
16QAM -5M, Left Band Edge



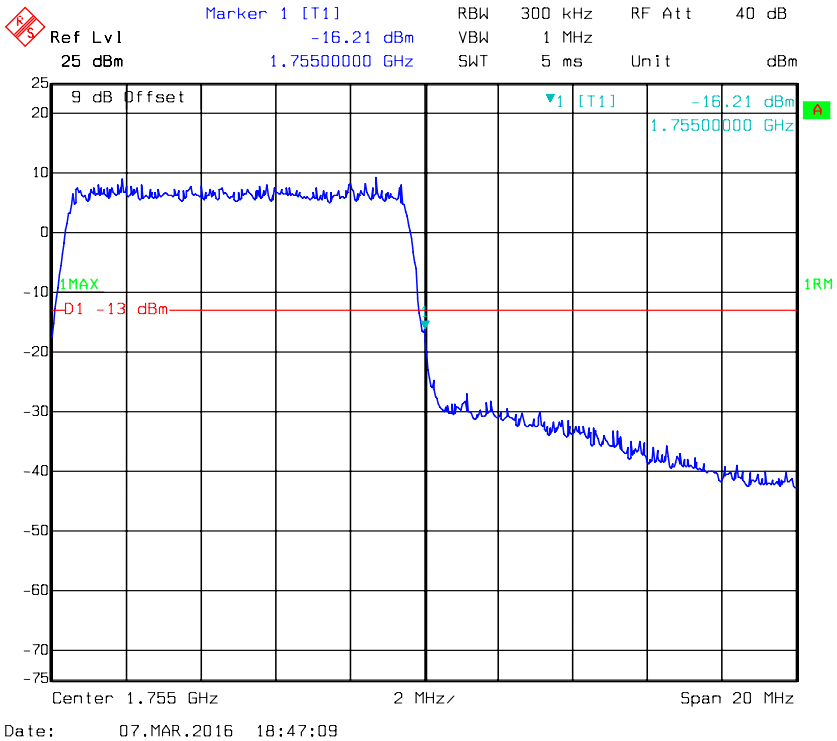
16QAM -5M, Right Band Edge



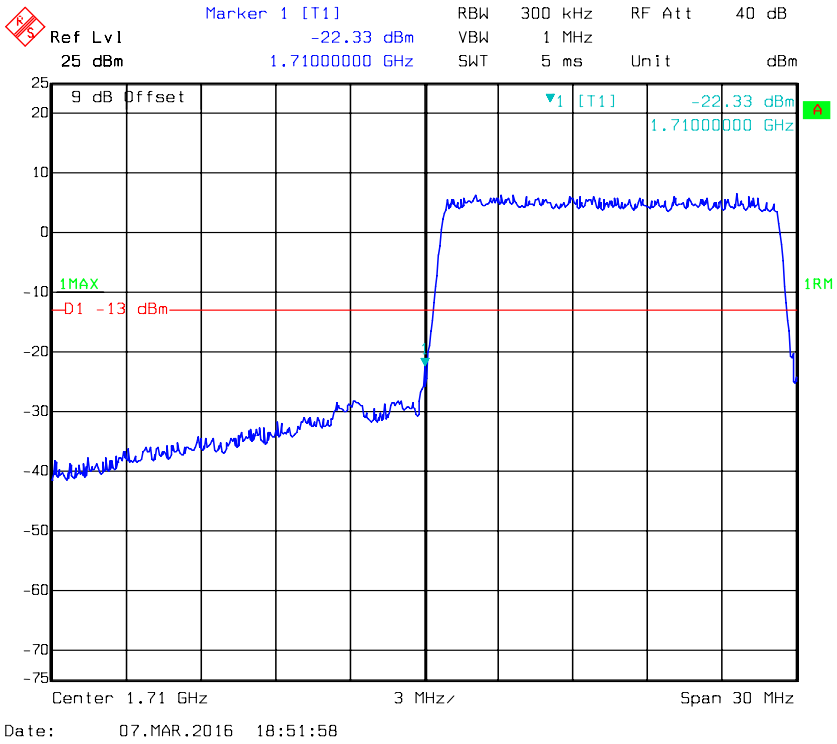
16QAM -10M, Left Band Edge



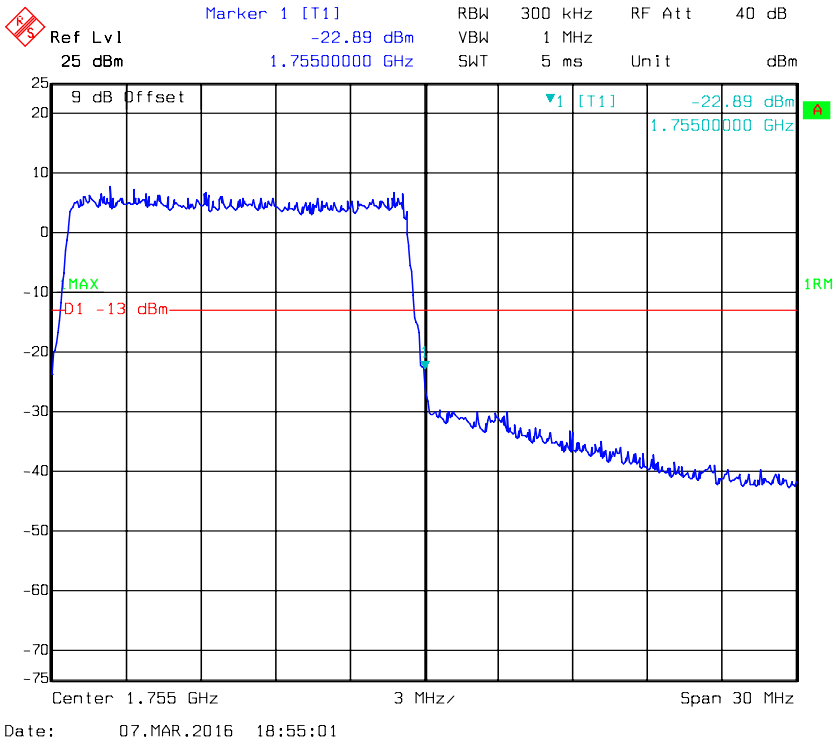
16QAM -10M, Right Band Edge



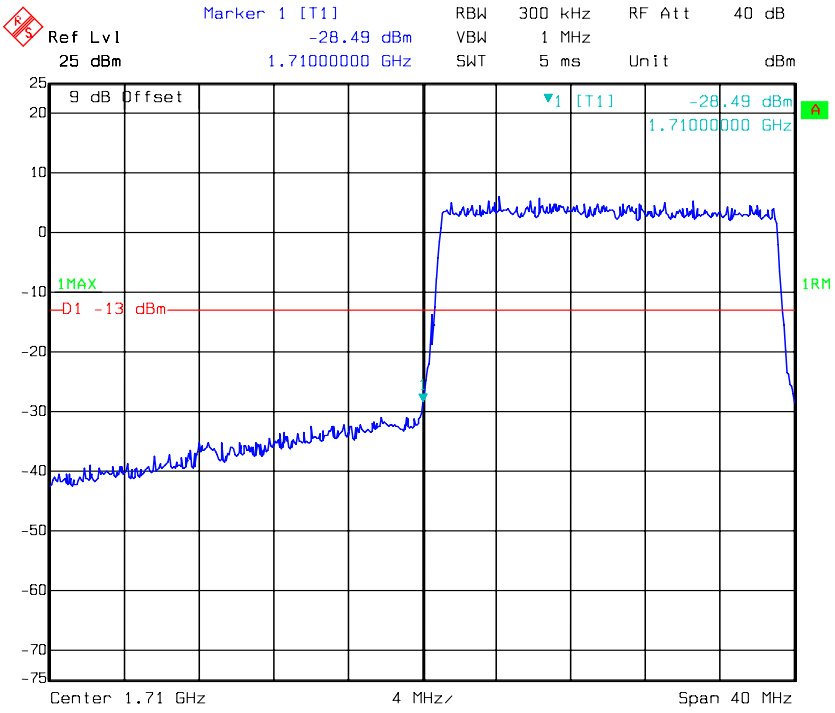
16QAM -15M, Left Band Edge



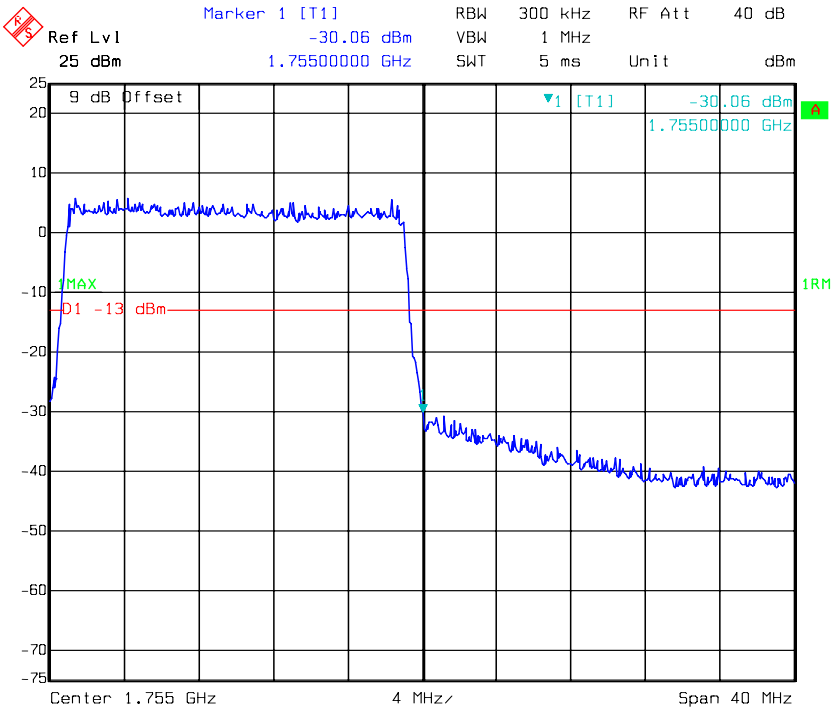
16QAM -15M, Right Band Edge



16QAM -20M, Left Band Edge

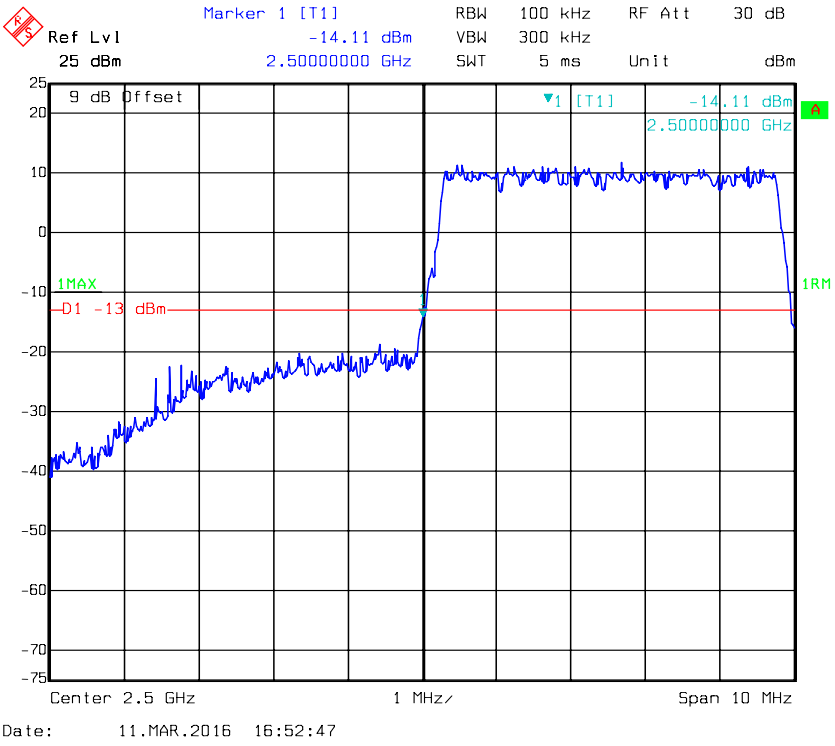


16QAM-20M, Right Band Edge

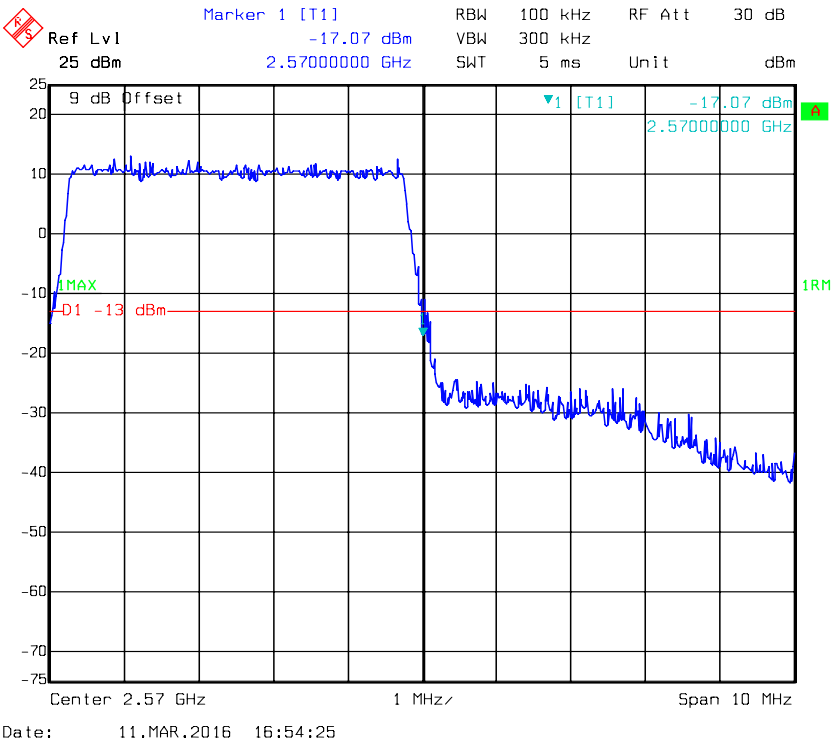


LTE Band 7:

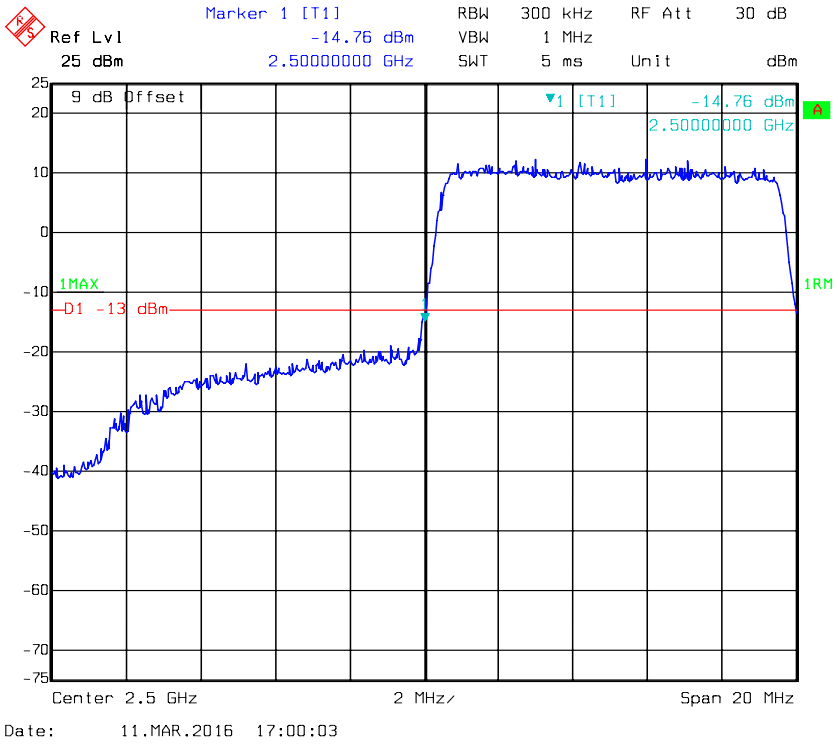
QPSK-5M, Left Band Edge



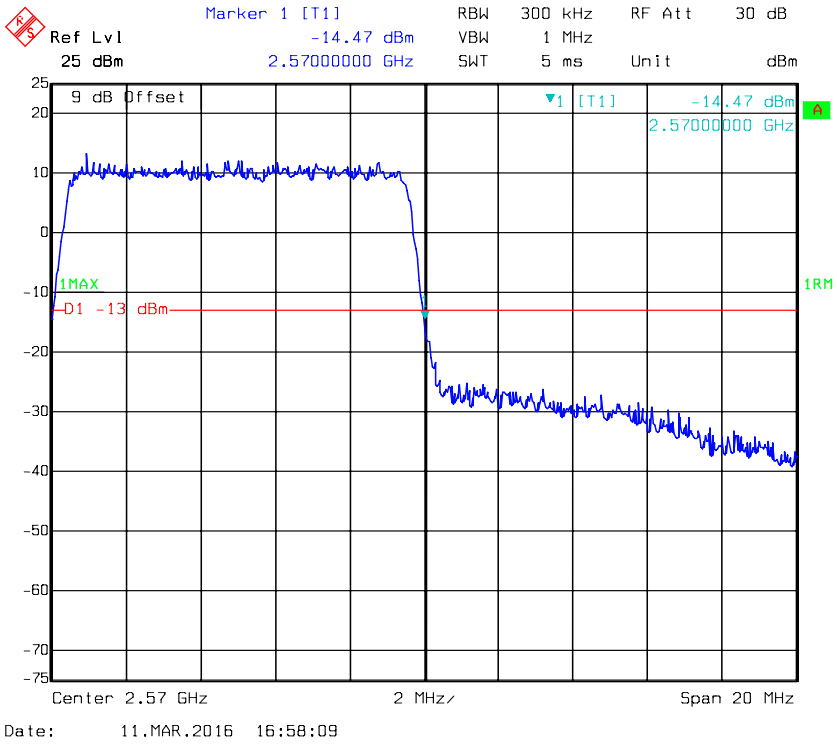
QPSK-5M, Right Band Edge



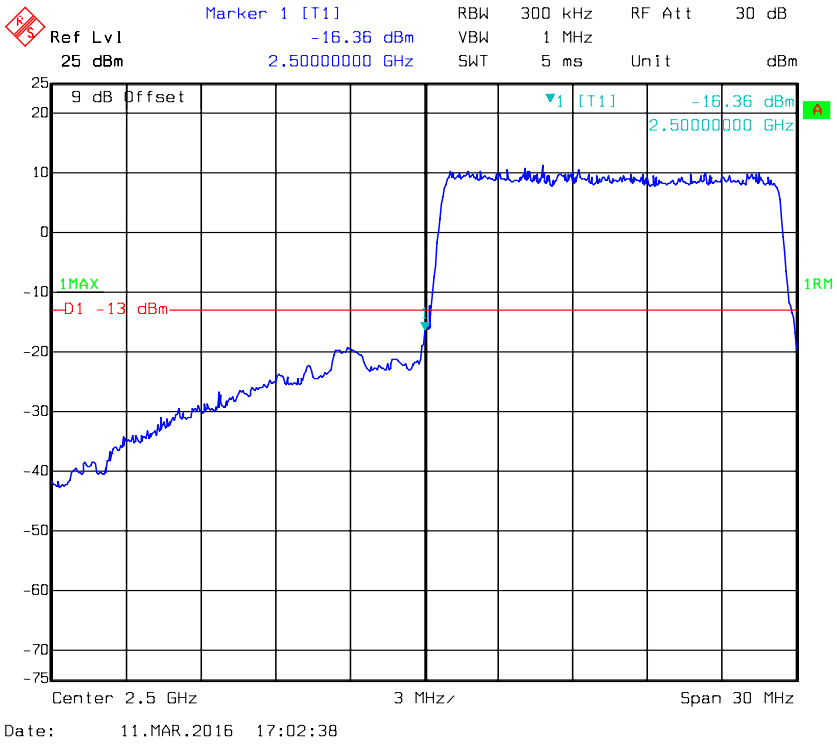
QPSK-10M, Left Band Edge



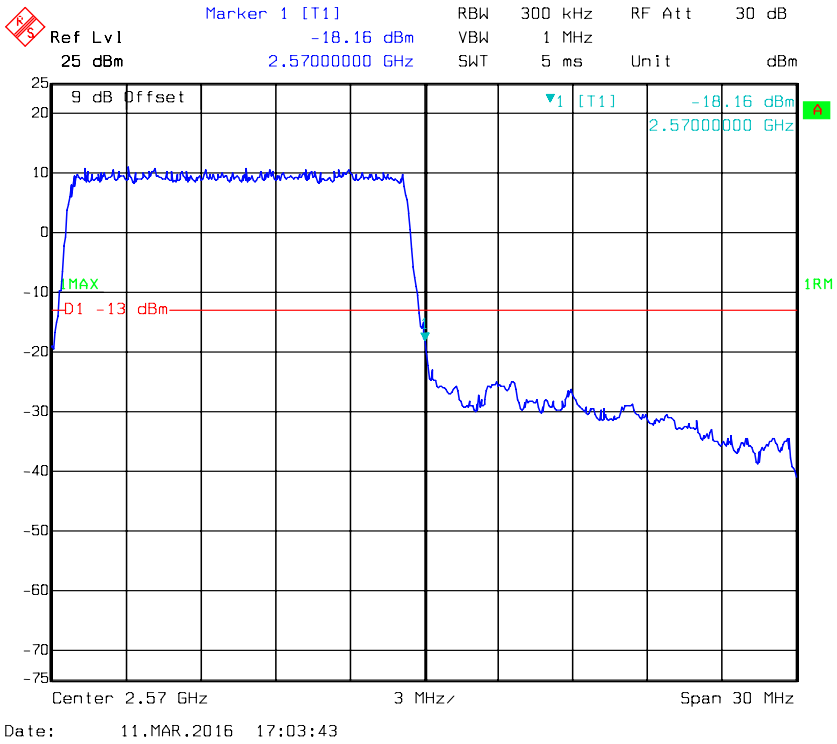
QPSK-10M, Right Band Edge



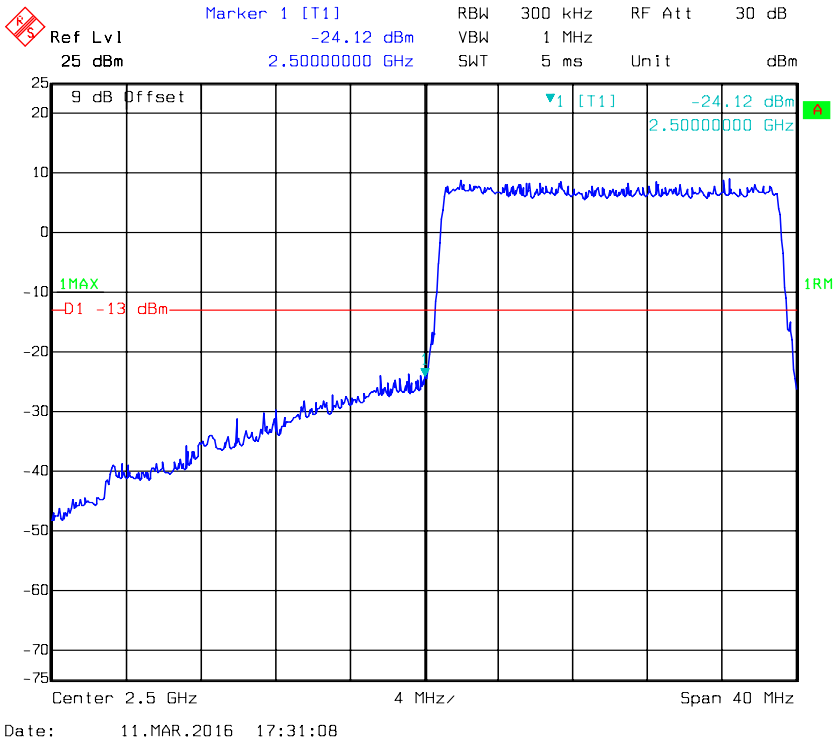
QPSK-15M, Left Band Edge



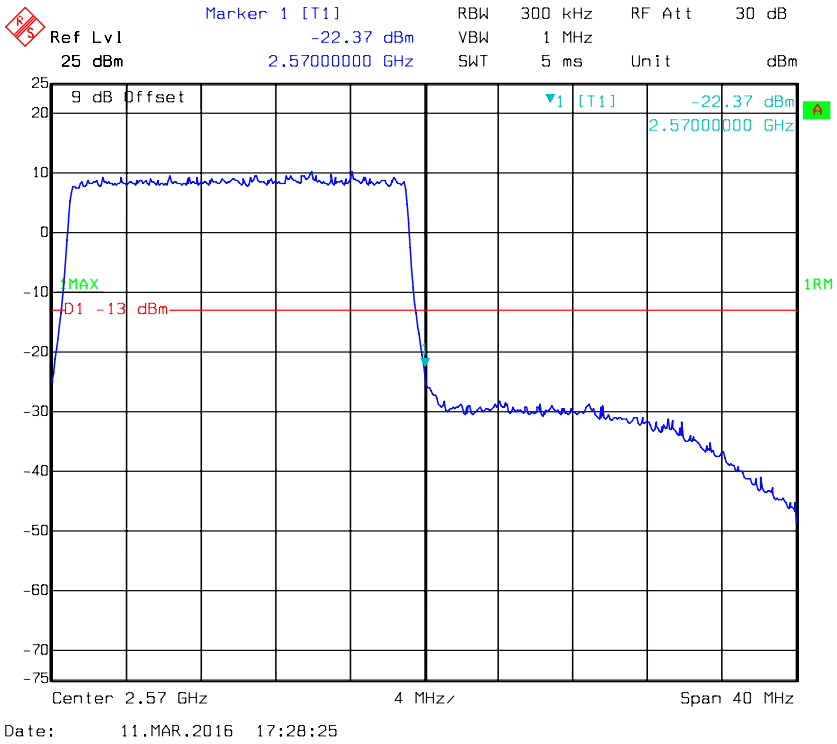
QPSK-15M, Right Band Edge



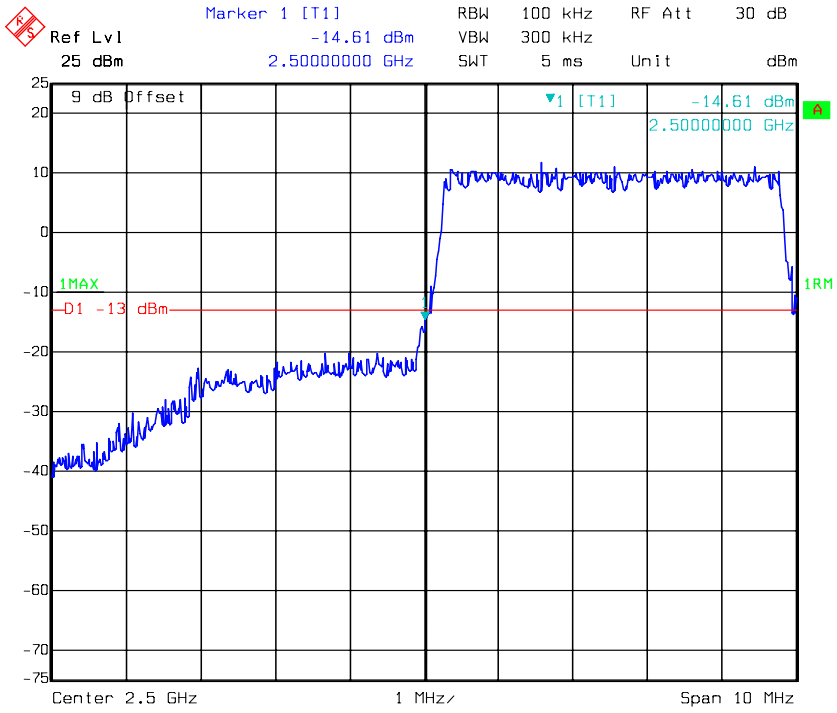
QPSK-20M, Left Band Edge



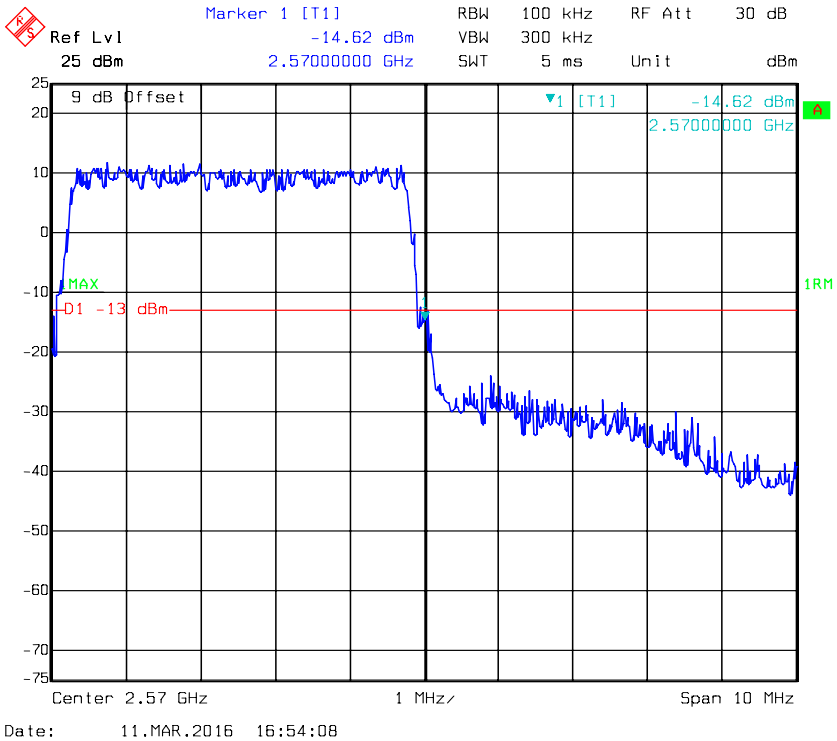
QPSK-20M, Right Band Edge



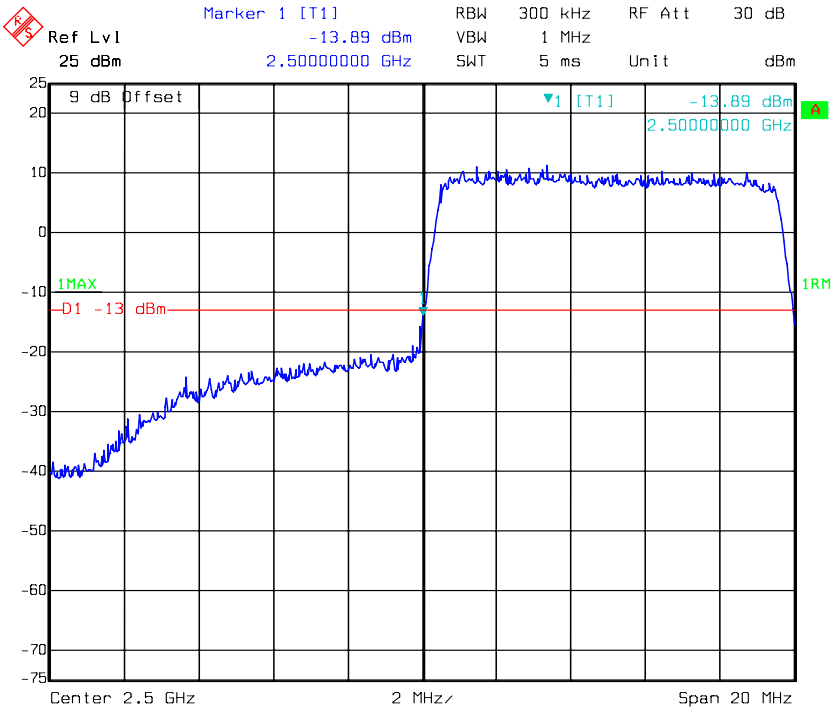
16QAM -5M, Left Band Edge



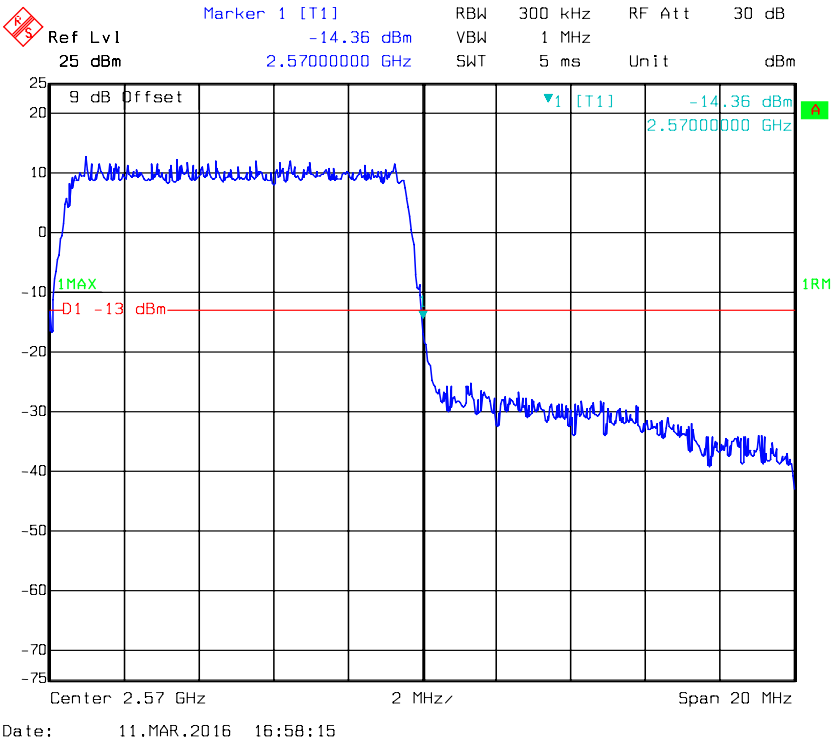
16QAM -5M, Right Band Edge



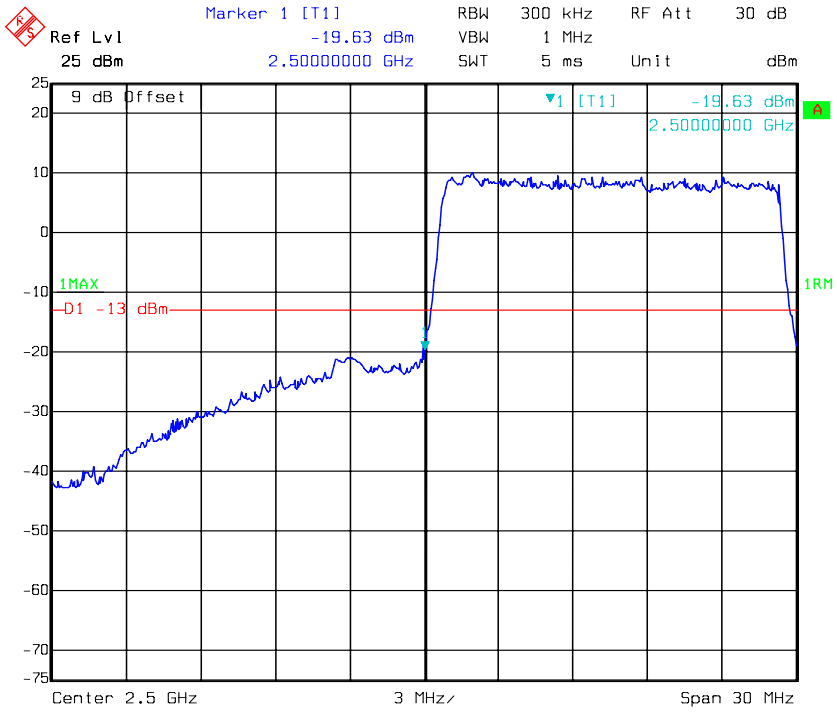
16QAM -10M, Left Band Edge



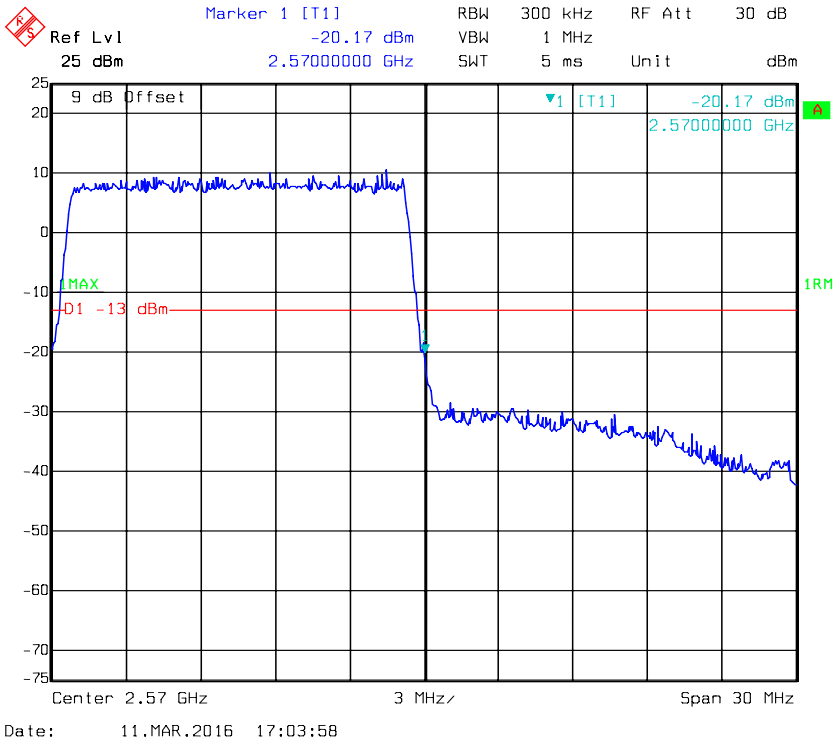
16QAM -10M, Right Band Edge



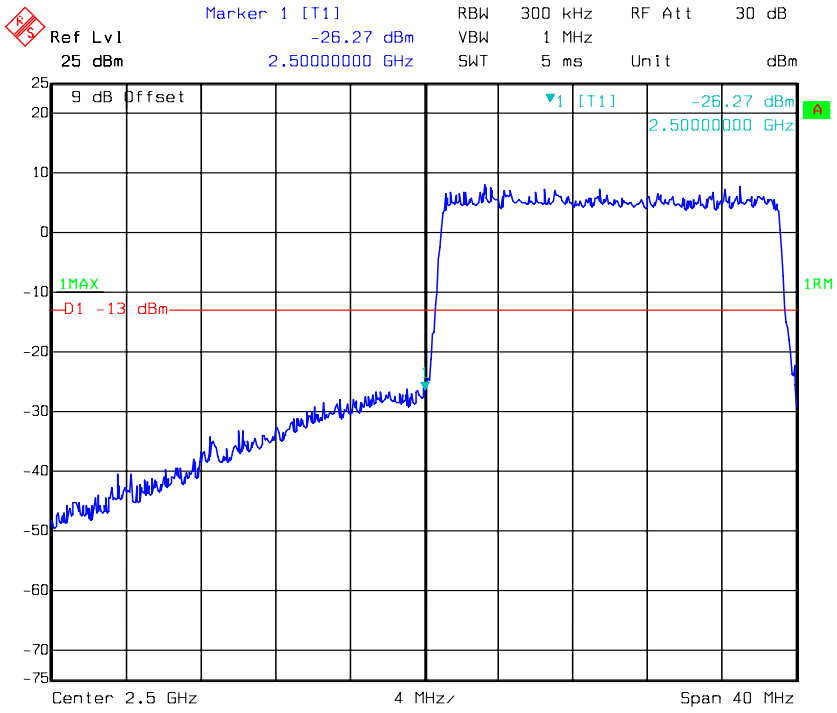
16QAM -15M, Left Band Edge



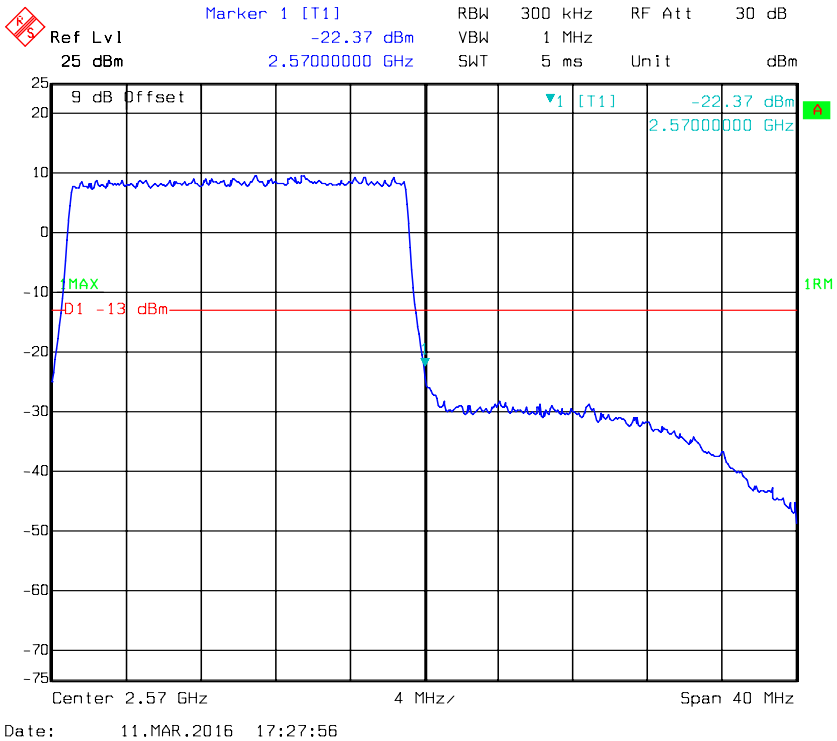
16QAM -15M Full RB, Right Band Edge



16QAM -20M, Left Band Edge

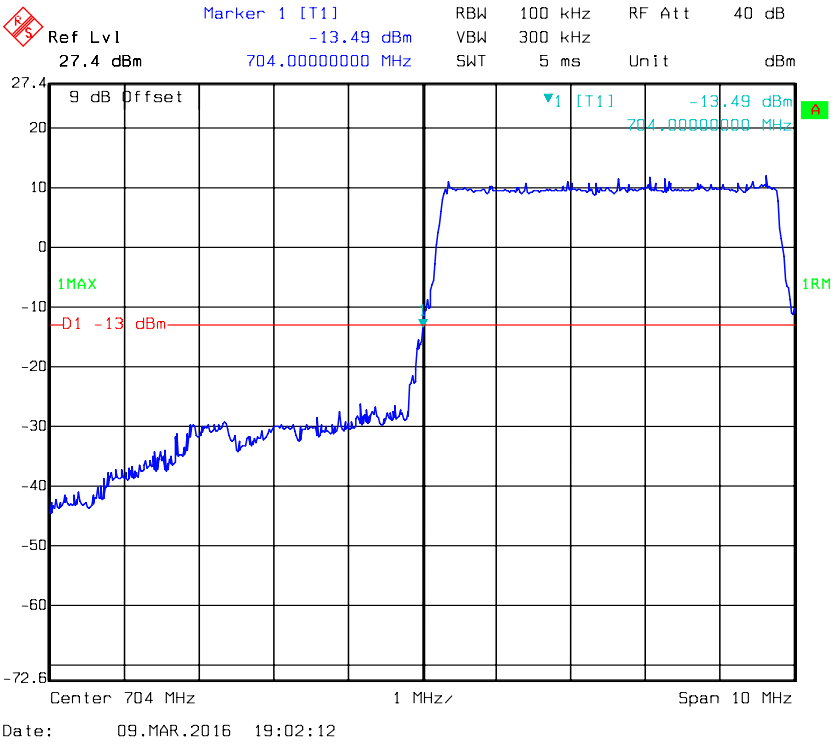


16QAM-20M, Right Band Edge

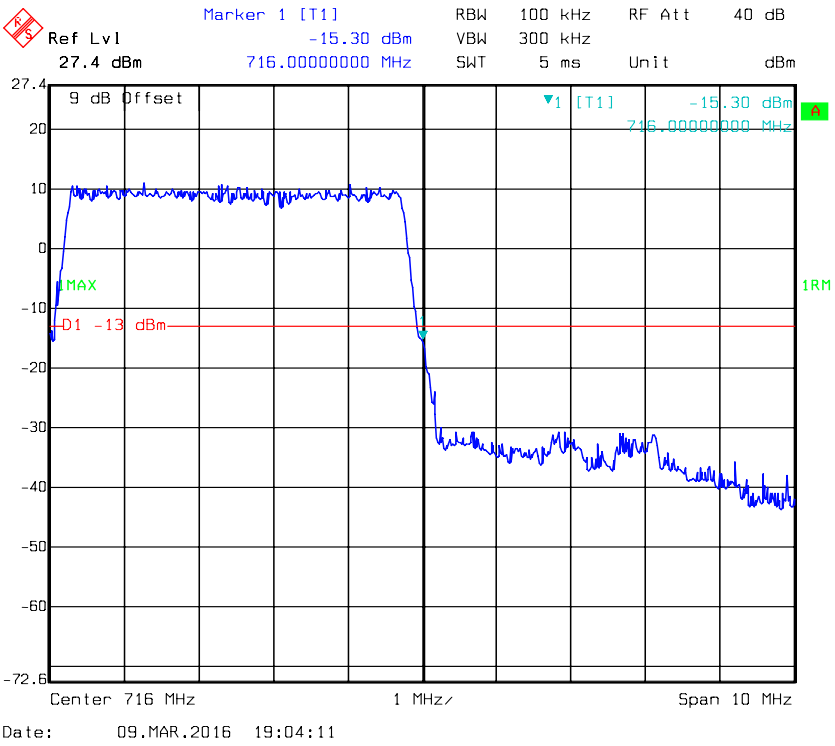


LTE Band 17:

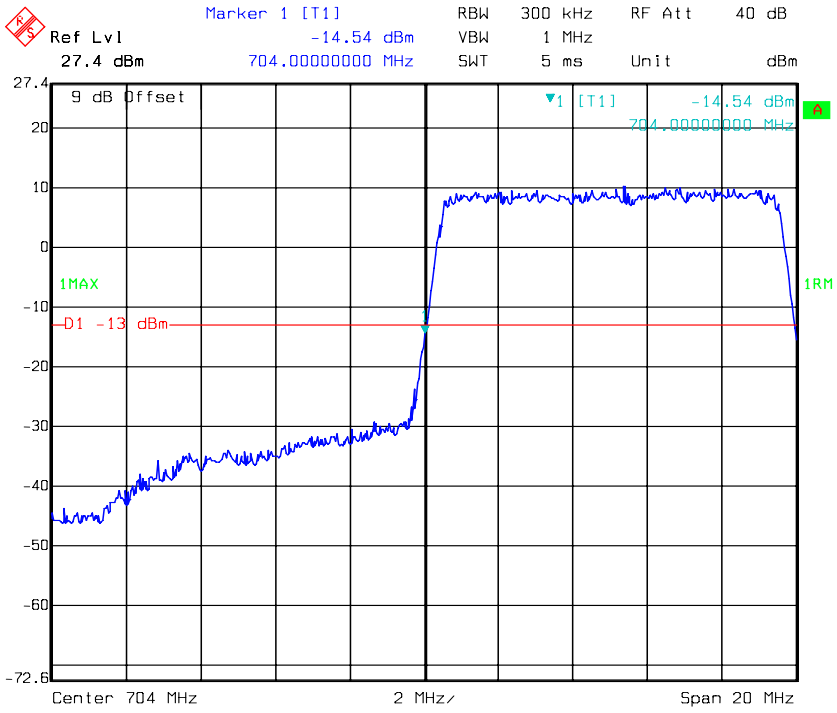
QPSK-5M, Left Band Edge



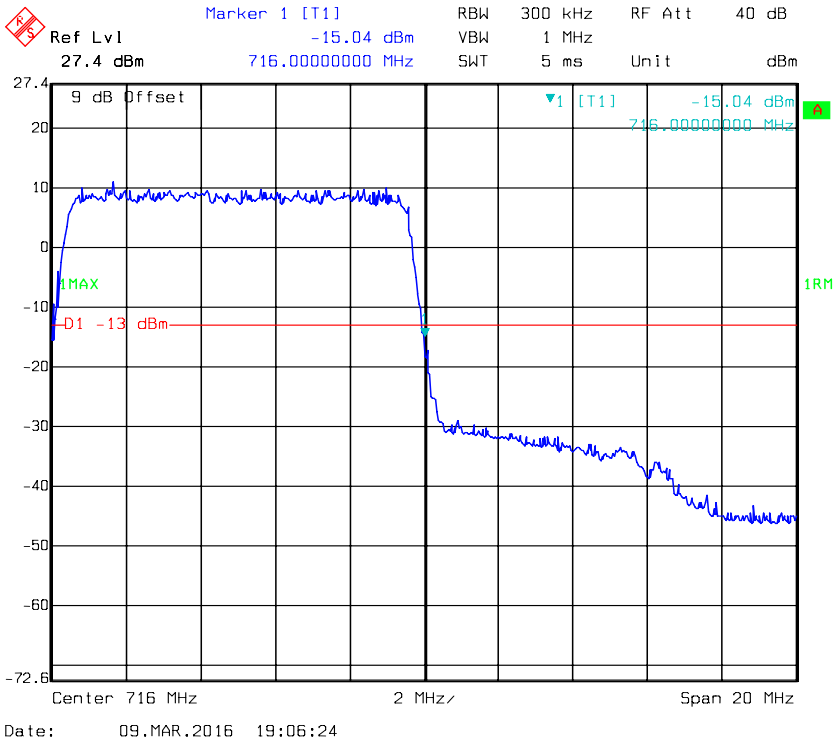
QPSK-5M, Right Band Edge



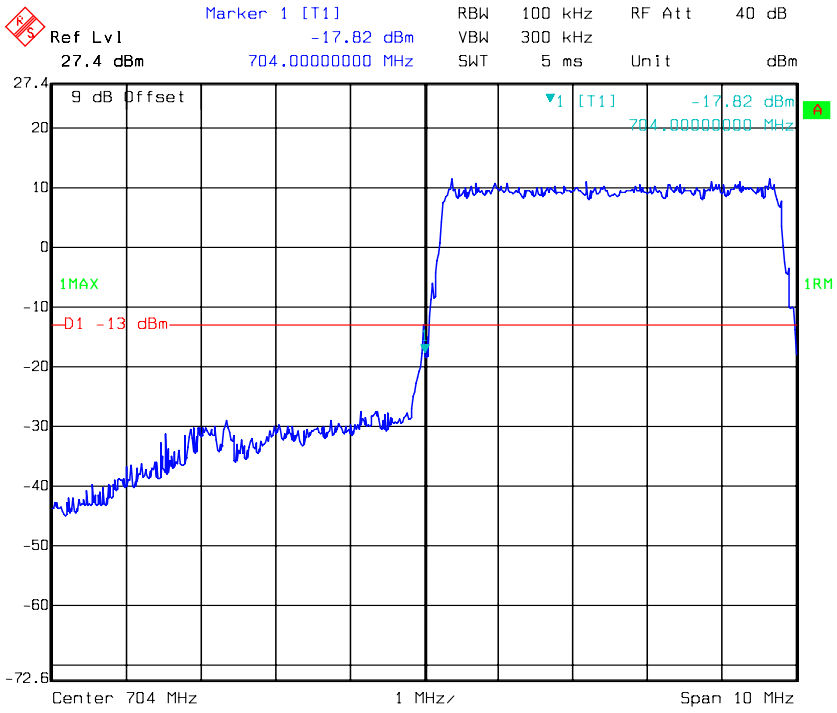
QPSK-10M, Left Band Edge



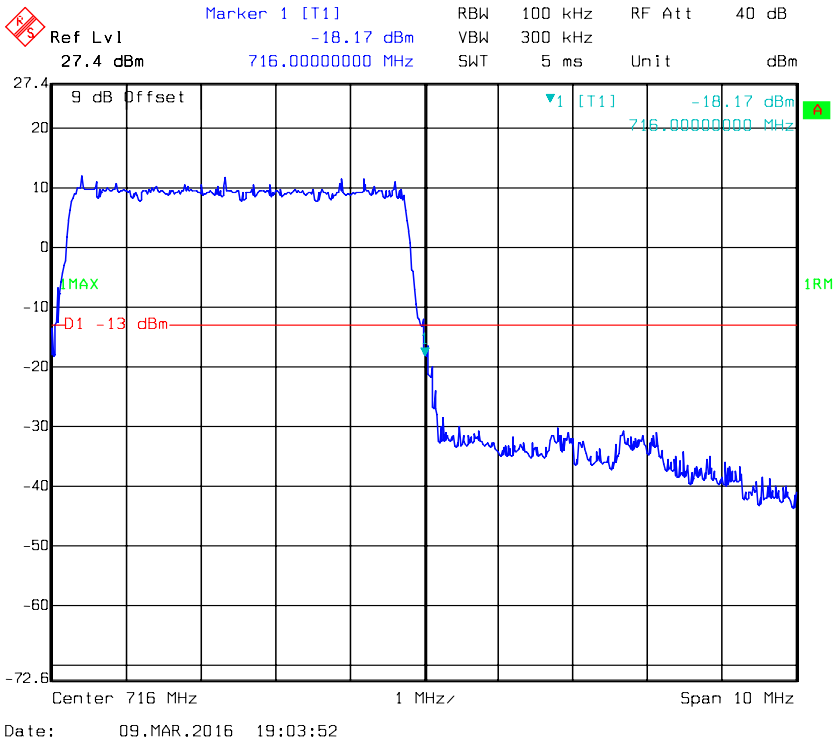
QPSK-10M, Right Band Edge



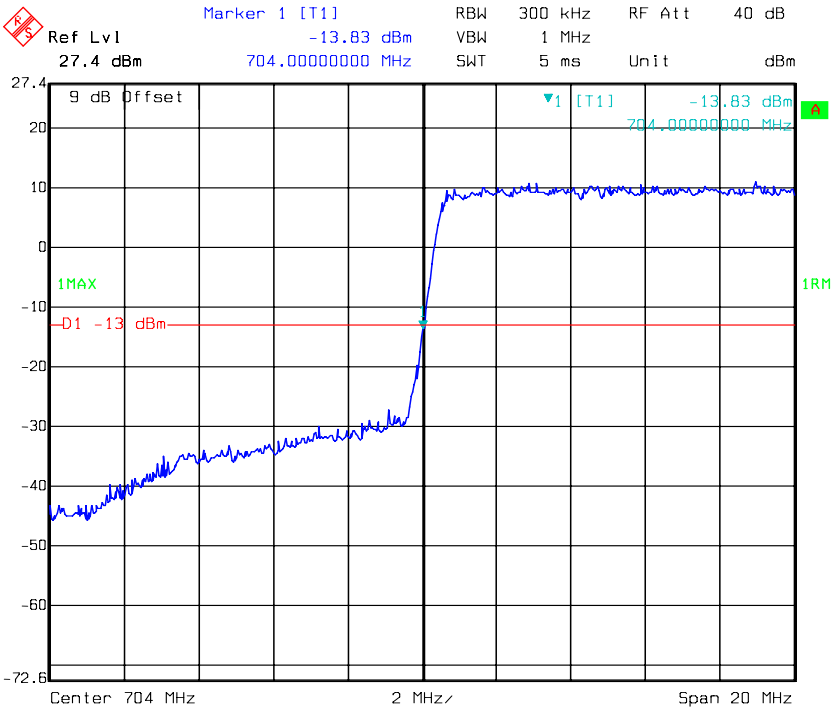
16QAM -5M, Left Band Edge



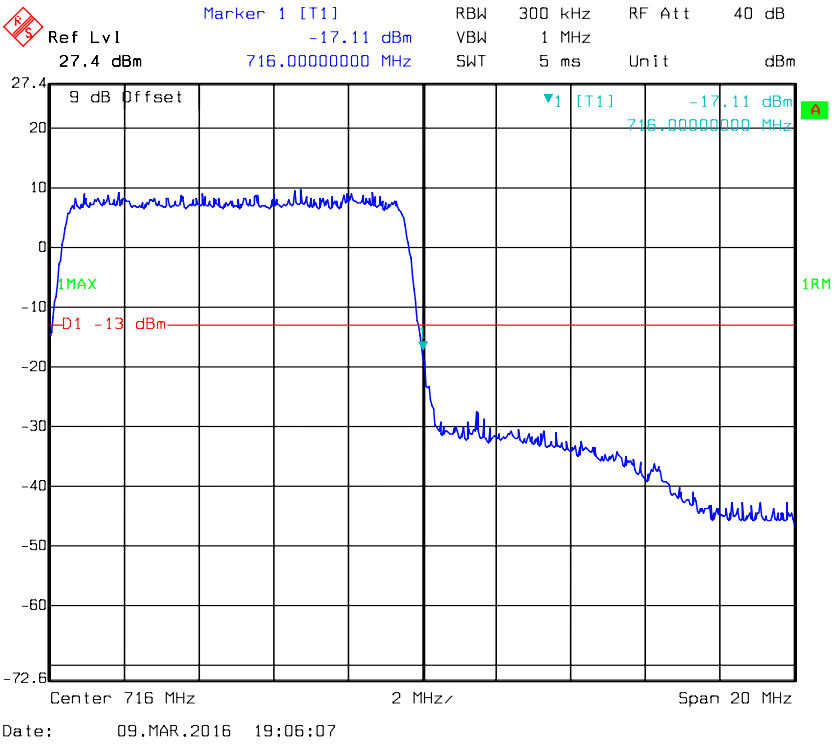
16QAM -5M, Right Band Edge



16QAM -10M, Left Band Edge



16QAM -10M, Right Band Edge



FCC §2.1055, §22.355 & §24.235 & §27.54 - FREQUENCY STABILITY

Applicable Standard

FCC § 2.1055 (a), § 2.1055 (d), §22.355, §24.235，§27.54

According to §22.355, the carrier frequency of each transmitter in the Public Mobile Services must be maintained within the tolerances given in Table below:

Frequency Tolerance for Transmitters in the Public Mobile Services

Frequency Range (MHz)	Base, fixed (ppm)	Mobile > 3 watts (ppm)	Mobile ≤ 3 watts (ppm)
25 to 50	20.0	20.0	50.0
50 to 450	5.0	5.0	50.0
450 to 512	2.5	5.0	5.0
821 to 896	1.5	2.5	2.5
928 to 929.	5.0	N/A	N/A
929 to 960.	1.5	N/A	N/A
2110 to 2220	10.0	N/A	N/A

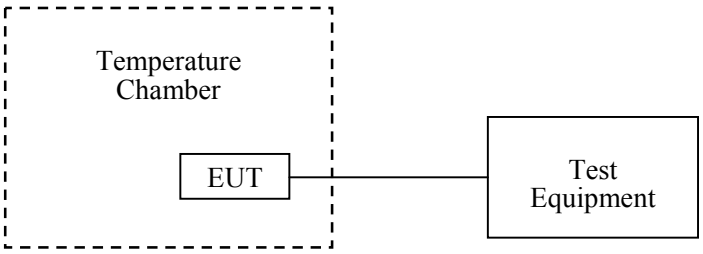
According to §24.235, the frequency stability shall be sufficient to ensure that the fundamental emissions stays within the authorized frequency block.

Test Procedure

Frequency Stability vs. Temperature: The equipment under test was connected to an external DC power supply and the RF output was connected to communication test set via feed-through attenuators. The EUT was placed inside the temperature chamber. The DC leads and RF output cable exited the chamber through an opening made for the purpose.

After the temperature stabilized for approximately 20 minutes, the frequency output was recorded from the communication test set.

Frequency Stability vs. Voltage: An external variable DC power supply was connected to the battery terminals of the equipment under test. The voltage was set from 85% to 115% of the nominal value and was then decreased until the transmitter light no longer illuminated; i.e., the battery end point. The output frequency was recorded for each battery voltage.



Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Dongzhixu	High Temperature Test Chamber	DP1000	201105083-3	2015-09-10	2016-09-09
R&S	Universal Radio Communication Tester	CMU200	109 038	2015-05-09	2016-05-09
R&S	Wideband Radio Communication Tester	CMW500	106891	2015-12-19	2016-12-19
UNI-T	Multimeter	UT39A	M130199938	2015-04-10	2016-04-10
Pasternack	RF Coaxial Cable	RF-01	/	2015-05-06	2016-05-06

*** Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data

Environmental Conditions

Temperature:	19.1 °C
Relative Humidity:	41 %
ATM Pressure:	100.6 kPa

The testing was performed by Dean Liu from 2016-03-11.

Cellular Band (Part 22H)

GMSK, Middle Channel, f_c = 836.6 MHz				
Temperature	**Voltage**	**Frequency Error**	**Frequency Error**	**Limit**
℃	**V_{DC}**	**Hz**	**ppm**	**ppm**
-30	3.8	2	0.000	2.5
-20	3.8	1	0.000	2.5
-10	3.8	0	0.000	2.5
0	3.8	4	0.000	2.5
10	3.8	7	0.000	2.5
20	3.8	9	0.000	2.5
30	3.8	7	0.000	2.5
40	3.8	7	0.000	2.5
50	3.8	10	0.000	2.5
25	3.6	0	0.000	2.5
25	4.35	3	0.000	2.5

EDGE, Middle Channel, f_c = 836.6 MHz				
Temperature	**Voltage**	**Frequency Error**	**Frequency Error**	**Limit**
℃	**V_{DC}**	**Hz**	**ppm**	**ppm**
-30	3.8	6	0.007	2.5
-20	3.8	7	0.008	2.5
-10	3.8	3	0.004	2.5
0	3.8	4	0.005	2.5
10	3.8	6	0.007	2.5
20	3.8	9	0.011	2.5
30	3.8	6	0.007	2.5
40	3.8	9	0.011	2.5
50	3.8	11	0.013	2.5
25	3.6	-1	-0.001	2.5
25	4.35	1	0.001	2.5

WCDMA Band V: Re199

Middle Channel, f_c = 836.6 MHz				
Temperature	**Voltage**	**Frequency Error**	**Frequency Error**	**Limit**
℃	**V_{DC}**	**Hz**	**ppm**	**ppm**
-30	3.8	-5	-0.006	2.5
-20	3.8	-9	-0.011	2.5
-10	3.8	-4	-0.005	2.5
0	3.8	-5	-0.006	2.5
10	3.8	-5	-0.006	2.5
20	3.8	-1	-0.001	2.5
30	3.8	-4	-0.005	2.5
40	3.8	-6	-0.007	2.5
50	3.8	-11	-0.013	2.5
25	3.6	-4	-0.005	2.5
25	4.35	-6	-0.007	2.5

WCDMA Band V: HSDPA

Middle Channel, f_c = 836.6 MHz				
Temperature	**Voltage**	**Frequency Error**	**Frequency Error**	**Limit**
℃	**V_{DC}**	**Hz**	**ppm**	**ppm**
-30	3.8	-9	-0.011	2.5
-20	3.8	-8	-0.010	2.5
-10	3.8	-11	-0.013	2.5
0	3.8	-11	-0.013	2.5
10	3.8	-14	-0.017	2.5
20	3.8	-10	-0.012	2.5
30	3.8	-15	-0.018	2.5
40	3.8	-11	-0.013	2.5
50	3.8	-18	-0.022	2.5
25	3.6	-13	-0.016	2.5
25	4.35	-6	-0.007	2.5

WCDMA Band V: HSUPA

Middle Channel, f_c = 836.6 MHz				
Temperature	**Voltage**	**Frequency Error**	**Frequency Error**	**Limit**
℃	**V_{DC}**	**Hz**	**ppm**	**ppm**
-30	3.8	-5	-0.006	2.5
-20	3.8	-8	-0.010	2.5
-10	3.8	-6	-0.007	2.5
0	3.8	-6	-0.007	2.5
10	3.8	-4	-0.005	2.5
20	3.8	-3	-0.004	2.5
30	3.8	-3	-0.004	2.5
40	3.8	-10	-0.012	2.5
50	3.8	-10	-0.012	2.5
25	3.6	-8	-0.010	2.5
25	4.35	-8	-0.010	2.5

WCDMA Band IV: REL99

Middle Channel, f_c = 1732.6 MHz				
Temperature	**Voltage**	**Frequency Error**	**Frequency Error**	**Limit**
℃	**V_{DC}**	**Hz**	**ppm**	**ppm**
-30	3.8	-10	-0.006	2.5
-20	3.8	-8	-0.005	2.5
-10	3.8	-6	-0.003	2.5
0	3.8	-5	-0.003	2.5
10	3.8	-1	-0.001	2.5
20	3.8	0	0.000	2.5
30	3.8	0	0.000	2.5
40	3.8	-6	-0.003	2.5
50	3.8	-8	-0.005	2.5
25	3.6	-7	-0.004	2.5
25	4.35	-2	-0.001	2.5

WCDMA Band IV: HSDPA

Middle Channel, f_c = 1732.6 MHz				
Temperature	**Voltage**	**Frequency Error**	**Frequency Error**	**Limit**
℃	**V_{DC}**	**Hz**	**ppm**	**ppm**
-30	3.8	-7	-0.004	2.5
-20	3.8	-7	-0.004	2.5
-10	3.8	-8	-0.005	2.5
0	3.8	-13	-0.008	2.5
10	3.8	-11	-0.006	2.5
20	3.8	-10	-0.006	2.5
30	3.8	-15	-0.009	2.5
40	3.8	-15	-0.009	2.5
50	3.8	-16	-0.009	2.5
25	3.6	-15	-0.009	2.5
25	4.35	-6	-0.003	2.5

WCDMA Band IV: HSUPA

Middle Channel, f_c = 1732.6 MHz				
Temperature	**Voltage**	**Frequency Error**	**Frequency Error**	**Limit**
℃	**V_{DC}**	**Hz**	**ppm**	**ppm**
-30	3.8	-6	-0.003	2.5
-20	3.8	-9	-0.005	2.5
-10	3.8	-6	-0.003	2.5
0	3.8	-8	-0.005	2.5
10	3.8	-3	-0.002	2.5
20	3.8	-4	-0.002	2.5
30	3.8	-2	-0.001	2.5
40	3.8	-12	-0.007	2.5
50	3.8	-14	-0.008	2.5
25	3.6	-10	-0.006	2.5
25	4.35	-6	-0.003	2.5

PCS Band (Part 24E)

GMSK, Middle Channel, f_c = 1880.0 MHz				
Temperature	**Voltage**	**Frequency Error**	**Frequency Error**	**Result**
℃	**V_{DC}**	**Hz**	**ppm**	
-30	3.8	7	0.004	Compliance
-20	3.8	3	0.002	Compliance
-10	3.8	10	0.005	Compliance
0	3.8	10	0.005	Compliance
10	3.8	7	0.004	Compliance
20	3.8	11	0.006	Compliance
30	3.8	11	0.006	Compliance
40	3.8	3	0.002	Compliance
50	3.8	3	0.002	Compliance
25	3.6	7	0.004	Compliance
25	4.35	8	0.004	Compliance

EDGE, Middle Channel, f_c = 1880.0 MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Result
℃	V_{DC}	Hz	ppm	
-30	3.8	9	-0.004	Compliance
-20	3.8	3	-0.004	Compliance
-10	3.8	12	-0.001	Compliance
0	3.8	8	-0.003	Compliance
10	3.8	6	-0.001	Compliance
20	3.8	8	-0.001	Compliance
30	3.8	10	0.001	Compliance
40	3.8	6	-0.003	Compliance
50	3.8	3	-0.005	Compliance
25	3.6	4	-0.004	Compliance
25	4.35	8	-0.002	Compliance

WCDMA Band II: Re199

Middle Channel, f_c = 1880.0 MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Result
℃	V_{DC}	Hz	ppm	
-30	3.8	-7	-0.004	Compliance
-20	3.8	-8	-0.004	Compliance
-10	3.8	-2	-0.001	Compliance
0	3.8	-5	-0.003	Compliance
10	3.8	-1	-0.001	Compliance
20	3.8	-2	-0.001	Compliance
30	3.8	1	0.001	Compliance
40	3.8	-6	-0.003	Compliance
50	3.8	-10	-0.005	Compliance
25	3.6	-8	-0.004	Compliance
25	4.35	-4	-0.002	Compliance

WCDMA Band II: HSDPA

Middle Channel, f_c = 1880.0 MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Result
℃	V_{DC}	Hz	ppm	
-30	3.8	-10	-0.005	Compliance
-20	3.8	-13	-0.007	Compliance
-10	3.8	-8	-0.004	Compliance
0	3.8	-11	-0.006	Compliance
10	3.8	-14	-0.007	Compliance
20	3.8	-14	-0.007	Compliance
30	3.8	-15	-0.008	Compliance
40	3.8	-13	-0.007	Compliance
50	3.8	-15	-0.008	Compliance
25	3.6	-17	-0.009	Compliance
25	4.35	-9	-0.005	Compliance

WCDMA Band II: HSUPA

Middle Channel, f_c = 1880.0 MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Result
℃	V_{DC}	Hz	ppm	
-30	3.8	-8	-0.004	Compliance
-20	3.8	-9	-0.005	Compliance
-10	3.8	-3	-0.002	Compliance
0	3.8	-8	-0.004	Compliance
10	3.8	-4	-0.002	Compliance
20	3.8	-5	-0.003	Compliance
30	3.8	-3	-0.002	Compliance
40	3.8	-9	-0.005	Compliance
50	3.8	-12	-0.006	Compliance
25	3.6	-11	-0.006	Compliance
25	4.35	-6	-0.003	Compliance

LTE Band 2:

QPSK, Channel Bandwidth:10MHz Middle Channel, f_c = 1732.5 MHz				
Temperature	**Voltage**	**Frequency Error**	**Frequency Error**	**Result**
℃	**V_{DC}**	**Hz**	**ppm**	
-30	3.8	-0.96	-0.0005	Compliance
-20	3.8	-0.82	-0.0004	Compliance
-10	3.8	-0.92	-0.0005	Compliance
0	3.8	-0.85	-0.0005	Compliance
10	3.8	-0.91	-0.0005	Compliance
20	3.8	-0.87	-0.0005	Compliance
30	3.8	-0.94	-0.0005	Compliance
40	3.8	-0.84	-0.0004	Compliance
50	3.8	-0.94	-0.0005	Compliance
25	3.6	-0.91	-0.0005	Compliance
25	4.35	-0.92	-0.0005	Compliance

16QAM, Channel Bandwidth:10MHz Middle Channel, f_c = 1732.5 MHz				
Temperature	**Voltage**	**Frequency Error**	**Frequency Error**	**Result**
℃	**V_{DC}**	**Hz**	**ppm**	
-30	3.8	-0.87	-0.0005	Compliance
-20	3.8	-0.82	-0.0004	Compliance
-10	3.8	-0.87	-0.0005	Compliance
0	3.8	-0.78	-0.0004	Compliance
10	3.8	-0.83	-0.0004	Compliance
20	3.8	-0.86	-0.0005	Compliance
30	3.8	-0.86	-0.0005	Compliance
40	3.8	-0.83	-0.0004	Compliance
50	3.8	-0.91	-0.0005	Compliance
25	3.6	-0.86	-0.0005	Compliance
25	4.35	-0.87	-0.0005	Compliance

LTE Band 4:

QPSK, Channel Bandwidth:10MHz Middle Channel, f_c = 1732.5 MHz				
Temperature	**Voltage**	**Frequency Error**	**Frequency Error**	**Result**
℃	**V_{DC}**	**Hz**	**ppm**	
-30	3.8	-1.07	-0.0006	Compliance
-20	3.8	-1.10	-0.0006	Compliance
-10	3.8	-1.14	-0.0007	Compliance
0	3.8	-1.10	-0.0006	Compliance
10	3.8	-1.07	-0.0006	Compliance
20	3.8	-1.08	-0.0006	Compliance
30	3.8	-0.66	-0.0004	Compliance
40	3.8	-0.76	-0.0004	Compliance
50	3.8	-0.53	-0.0003	Compliance
25	3.6	-0.65	-0.0004	Compliance
25	4.35	-0.67	-0.0004	Compliance

16QAM, Channel Bandwidth:10MHz Middle Channel, f_c = 1732.5 MHz				
Temperature	**Voltage**	**Frequency Error**	**Frequency Error**	**Result**
℃	**V_{DC}**	**Hz**	**ppm**	
-30	3.8	-2.32	-0.0013	Compliance
-20	3.8	-2.32	-0.0013	Compliance
-10	3.8	-2.36	-0.0014	Compliance
0	3.8	-2.32	-0.0013	Compliance
10	3.8	-2.31	-0.0013	Compliance
20	3.8	-2.36	-0.0014	Compliance
30	3.8	-1.92	-0.0011	Compliance
40	3.8	-1.97	-0.0011	Compliance
50	3.8	-1.74	-0.0010	Compliance
25	3.6	-1.90	-0.0011	Compliance
25	4.35	-1.89	-0.0011	Compliance

LTE Band 7:

QPSK, Channel Bandwidth:10MHz Middle Channel, f_c = 2535 MHz				
Temperature	**Voltage**	**Frequency Error**	**Frequency Error**	**Result**
℃	**V_{DC}**	**Hz**	**ppm**	
-30	3.8	-0.43	-0.0002	Compliance
-20	3.8	-0.55	-0.0002	Compliance
-10	3.8	-0.51	-0.0002	Compliance
0	3.8	-0.56	-0.0002	Compliance
10	3.8	-0.45	-0.0002	Compliance
20	3.8	-0.61	-0.0002	Compliance
30	3.8	-0.51	-0.0002	Compliance
40	3.8	-0.45	-0.0002	Compliance
50	3.8	-0.57	-0.0002	Compliance
25	3.6	-0.53	-0.0002	Compliance
25	4.35	-0.38	-0.0001	Compliance

16QAM, Channel Bandwidth:10MHz Middle Channel, f_c = 2535 MHz				
Temperature	**Voltage**	**Frequency Error**	**Frequency Error**	**Result**
℃	**V_{DC}**	**Hz**	**ppm**	
-30	3.8	-1.21	-0.0005	Compliance
-20	3.8	-1.29	-0.0005	Compliance
-10	3.8	-1.22	-0.0005	Compliance
0	3.8	-1.27	-0.0005	Compliance
10	3.8	-1.17	-0.0005	Compliance
20	3.8	-1.35	-0.0005	Compliance
30	3.8	-1.22	-0.0005	Compliance
40	3.8	-1.15	-0.0005	Compliance
50	3.8	-1.30	-0.0005	Compliance
25	3.6	-1.29	-0.0005	Compliance
25	4.35	-1.12	-0.0004	Compliance

LTE Band 17:

QPSK, Channel Bandwidth:10MHz Middle Channel, f_c = 710 MHz				
Temperature	**Voltage**	**Frequency Error**	**Frequency Error**	**Result**
℃	**V_{DC}**	**Hz**	**ppm**	
-30	3.8	-1.68	-0.0024	Compliance
-20	3.8	-1.77	-0.0025	Compliance
-10	3.8	-1.66	-0.0023	Compliance
0	3.8	-1.72	-0.0024	Compliance
10	3.8	-1.73	-0.0024	Compliance
20	3.8	-1.71	-0.0024	Compliance
30	3.8	-1.80	-0.0025	Compliance
40	3.8	-1.70	-0.0024	Compliance
50	3.8	-1.67	-0.0024	Compliance
25	3.6	-1.68	-0.0024	Compliance
25	4.35	-1.80	-0.0025	Compliance

16QAM, Channel Bandwidth:10MHz Middle Channel, f_c = 710 MHz				
Temperature	**Voltage**	**Frequency Error**	**Frequency Error**	**Result**
℃	**V_{DC}**	**Hz**	**ppm**	
-30	3.8	-1.46	-0.0021	Compliance
-20	3.8	-1.47	-0.0021	Compliance
-10	3.8	-1.52	-0.0021	Compliance
0	3.8	-1.56	-0.0022	Compliance
10	3.8	-1.52	-0.0021	Compliance
20	3.8	-1.49	-0.0021	Compliance
30	3.8	-1.47	-0.0021	Compliance
40	3.8	-1.54	-0.0022	Compliance
50	3.8	-1.56	-0.0022	Compliance
25	3.6	-1.52	-0.0021	Compliance
25	4.35	-1.49	-0.0021	Compliance

Note: The fundamental emissions stay within the authorized bands of operation based on the frequency deviation measured is small.

DECLARATION LETTER

Posh Mobile Limited
Add: 1011A, 10/F., Harbour Centre Tower 1, No.1 Hok Cheung St., Hung Hom, Kowloon, Hong Kong
Tel: 0085221229685 Fax: 0085239044979

DECLARATION OF SIMILARITY

Date: 2016-3-4

FEDERAL COMMUNICATIONS COMMISSION
Authorization and Evaluation Division
7435 Oakland Mills Road
Columbia, MD 21046

Dear Sir or Madam:

We, Posh Mobile Limited, hereby authorize Bay Area Compliance Laboratories Corp. to act as a laboratory for testing and test report generation for the following project(s):

(Product name: Equal Pro LTE FCC ID: 2ABN6L700)

The detail information,please check the reports.hereby declare that the model: L700 is electrically identical with the model: L700A which was tested by BACL with the same electromagnetic emissions and electromagnetic compatibility characteristics. The results of which are featured in BACL projects: RDG160304003, RDG160304003-20

A description of the differences between the two models and that are declared similar are as follows:
They are same motherboard, and just have the different model name ,and L700A has Band4,L700 no has Band4.

The detail information,please check the reports.

Sincerely,
K.N.Chong
Manager
E-mail: poshmobileltd@yahoo.com Tel: 0085221229685
Add: 1011A, 10/F., Harbour Centre Tower 1, No.1 Hok Cheung St., Hung Hom, Kowloon, Hong Kong

******* END OF REPORT *******