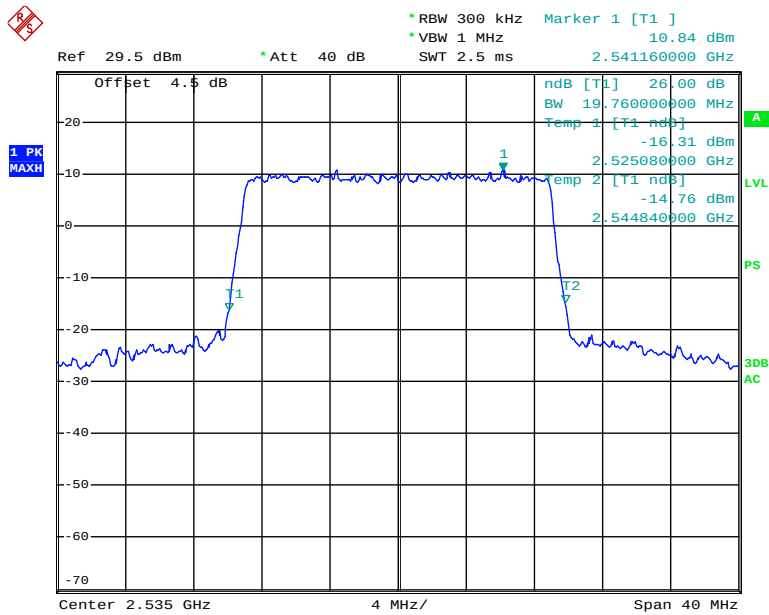
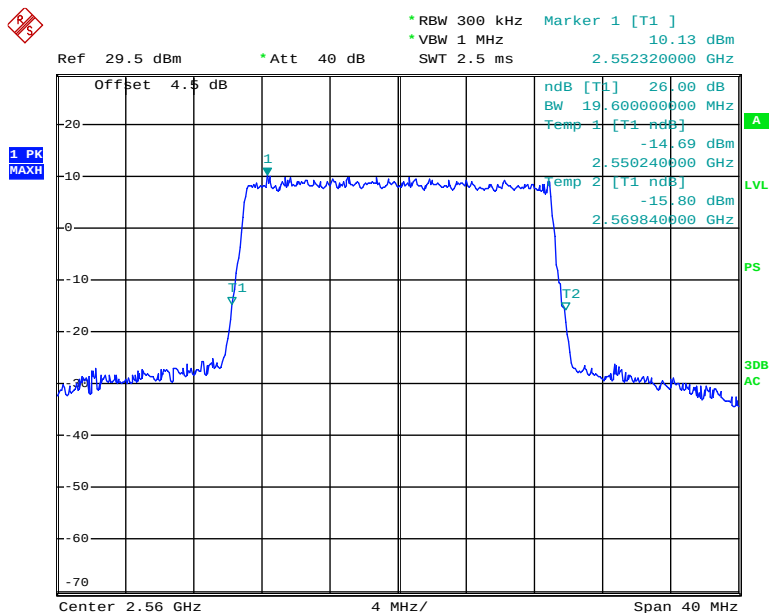


16-QAM (20.0 MHz) - 26 dB Bandwidth, Middle channel

Date: 3.DEC.2014 09:04:22

16-QAM (20.0 MHz) - 26 dB Bandwidth, High channel

Date: 3.DEC.2014 09:13:16

Band 17:

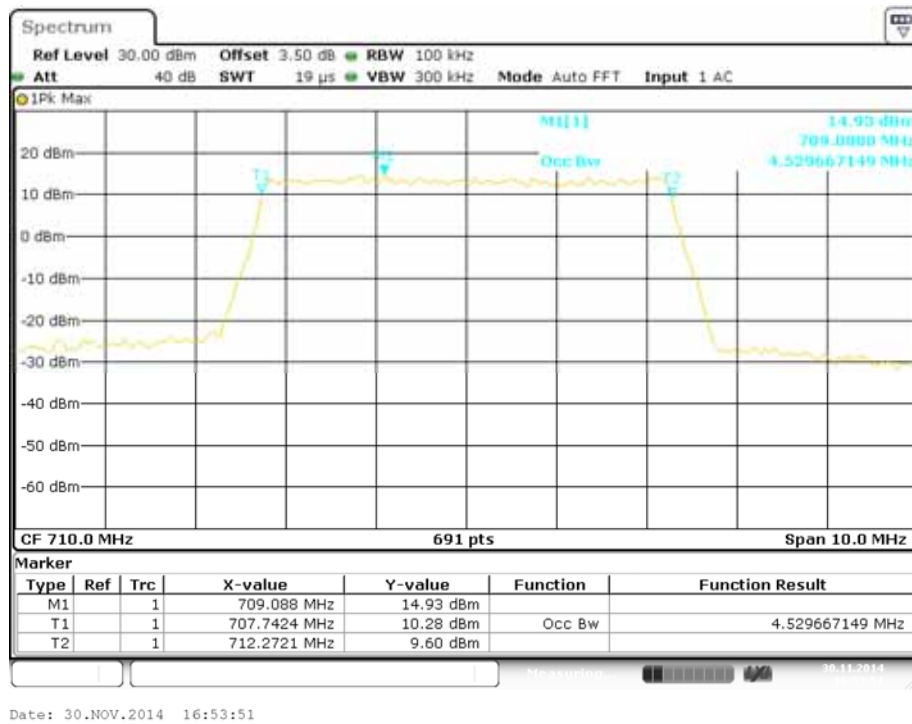
99% Occupied Bandwidth		Low channel (MHz)	Middle channel (MHz)	High channel (MHz)
5.0 MHz	QPSK	4.53	4.53	4.54
	16QAM	4.53	4.52	4.52
10.0 MHz	QPSK	9.03	9.12	9.06
	16QAM	9.06	9.09	9.06

26 dB Emission Bandwidth		Low channel (MHz)	Middle channel (MHz)	High channel (MHz)
5.0 MHz	QPSK	5.01	5.05	5.11
	16QAM	5.05	5.09	5.04
10.0 MHz	QPSK	10.07	10.16	10.13
	16QAM	10.04	10.01	10.01

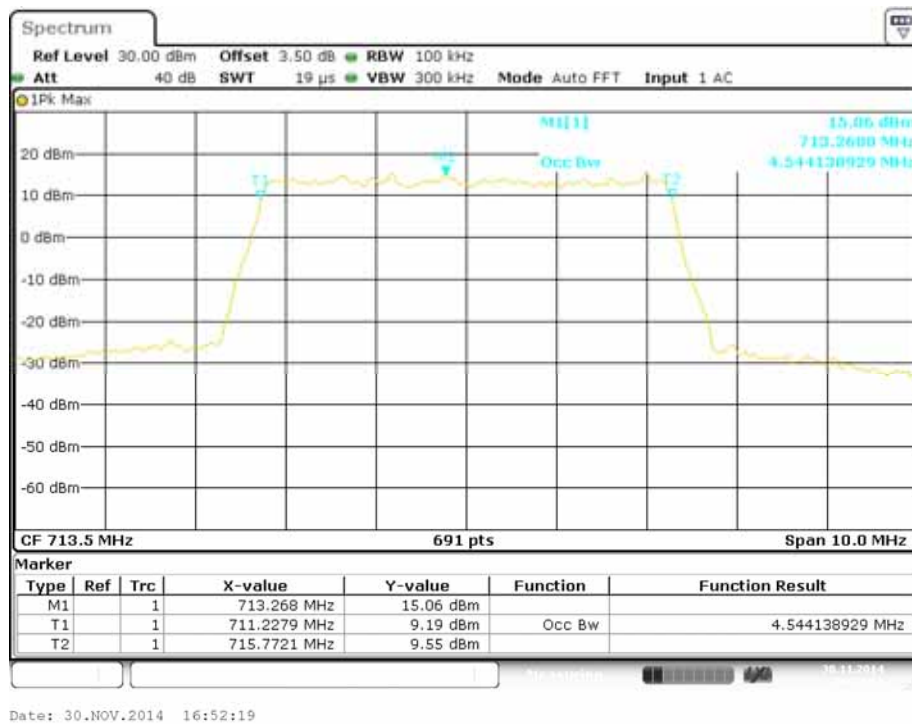
QPSK (5.0 MHz) - 99% Occupied Bandwidth, Low channel

Date: 30.NOV.2014 16:51:42

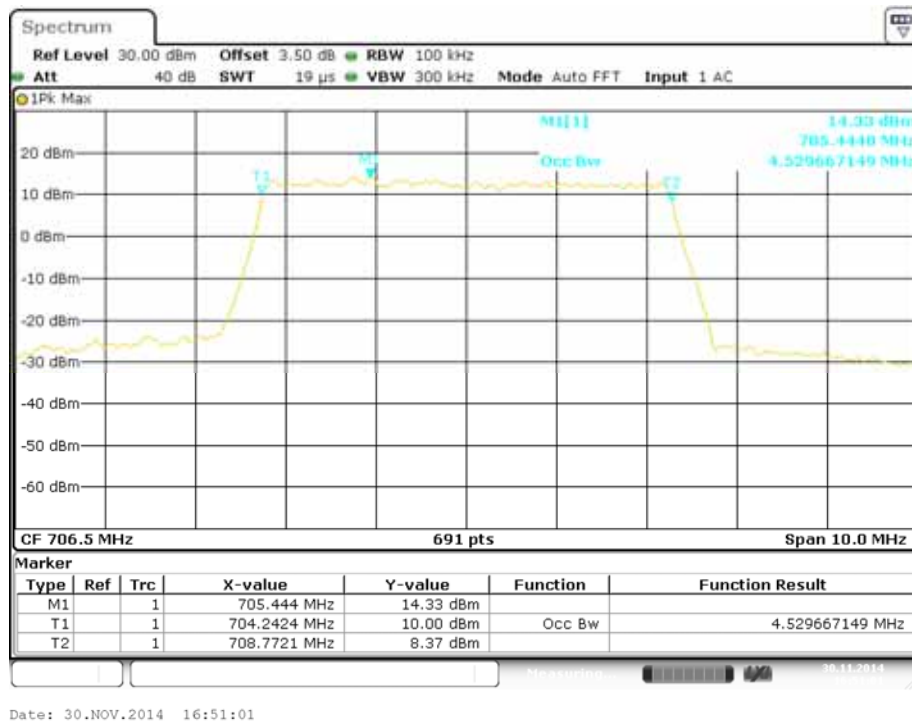
QPSK (5.0 MHz) - 99% Occupied Bandwidth, Middle channel



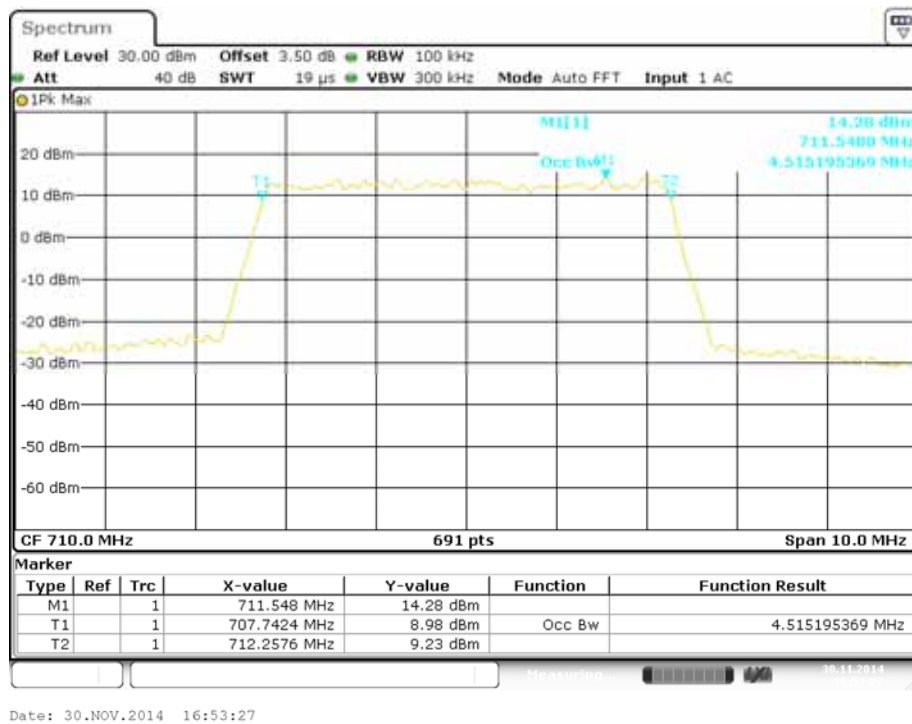
QPSK (5.0 MHz) - 99% Occupied Bandwidth, High channel

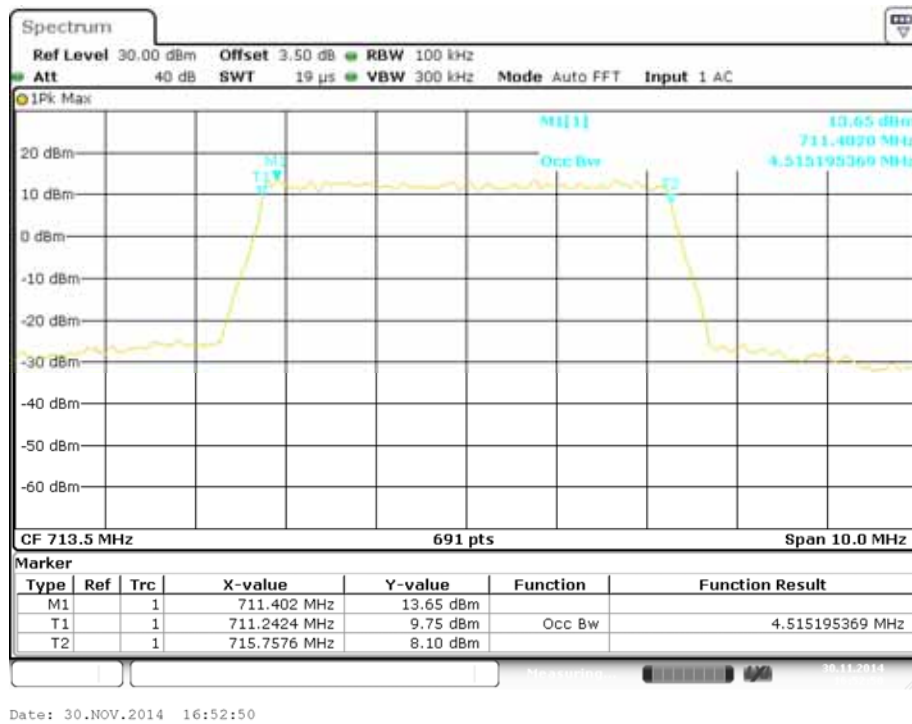
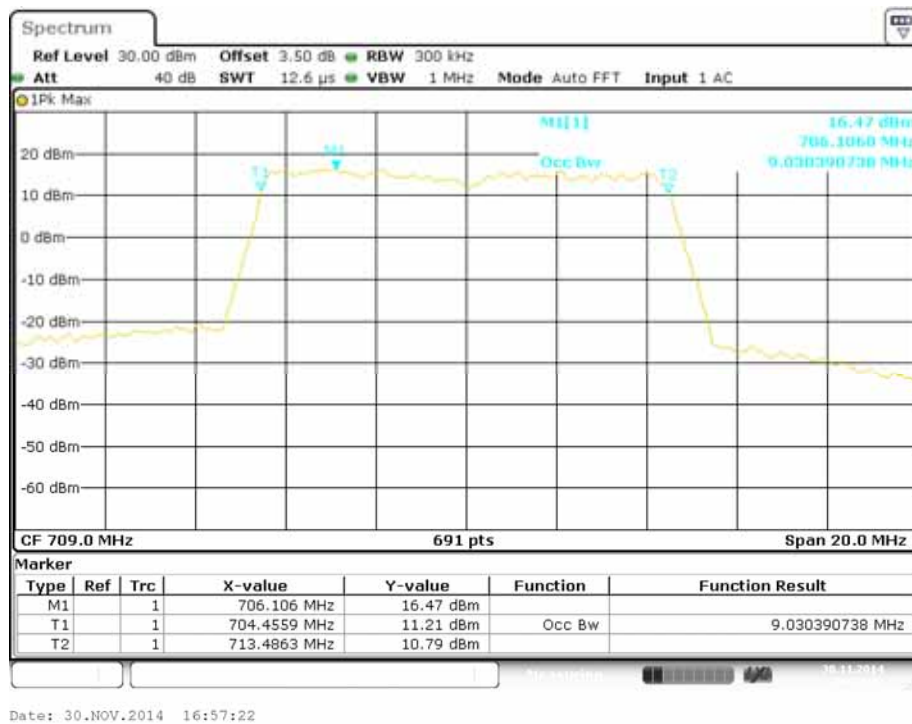


16-QAM (5.0 MHz) - 99% Occupied Bandwidth, Low channel

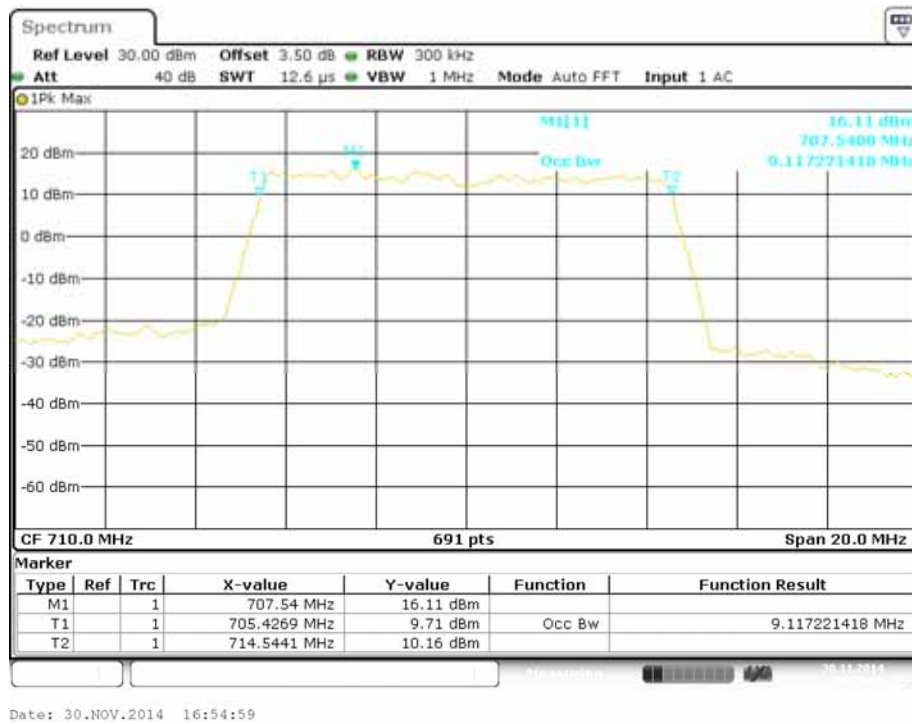


16-QAM (5.0 MHz) - 99% Occupied Bandwidth, Middle channel

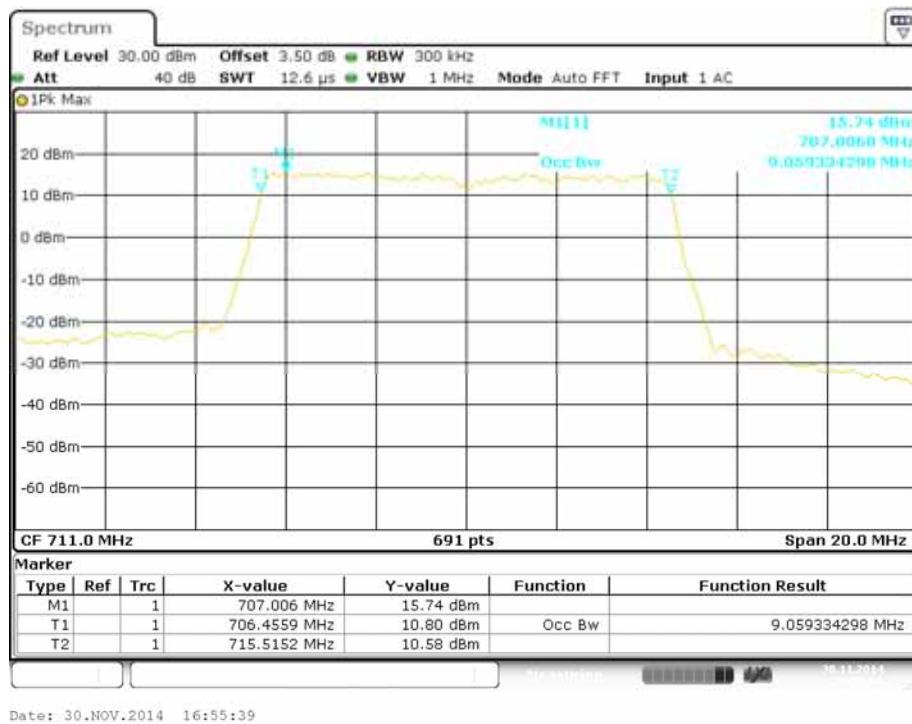


16-QAM (5.0 MHz) - 99% Occupied Bandwidth, High channel**QPSK (10.0 MHz) - 99% Occupied Bandwidth, Low channel**

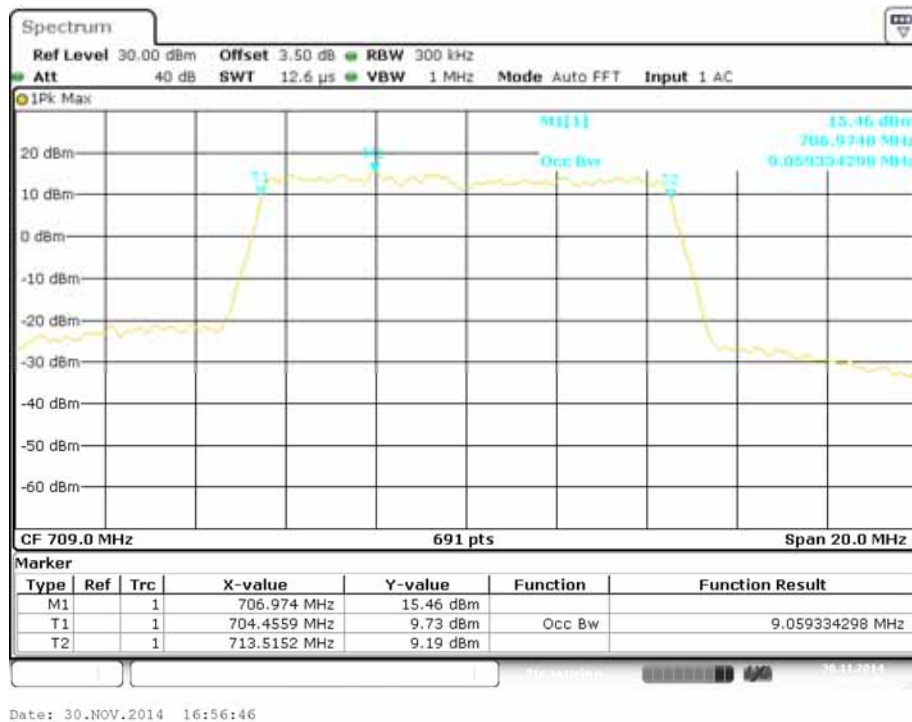
QPSK (10.0 MHz) - 99% Occupied Bandwidth, Middle channel



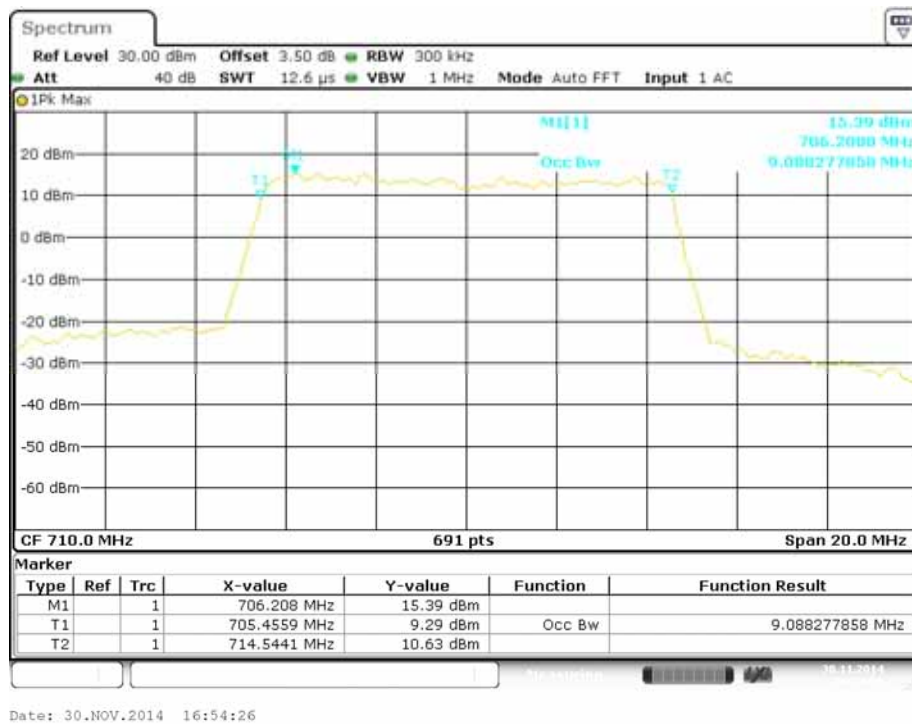
QPSK (10.0 MHz) - 99% Occupied Bandwidth, High channel



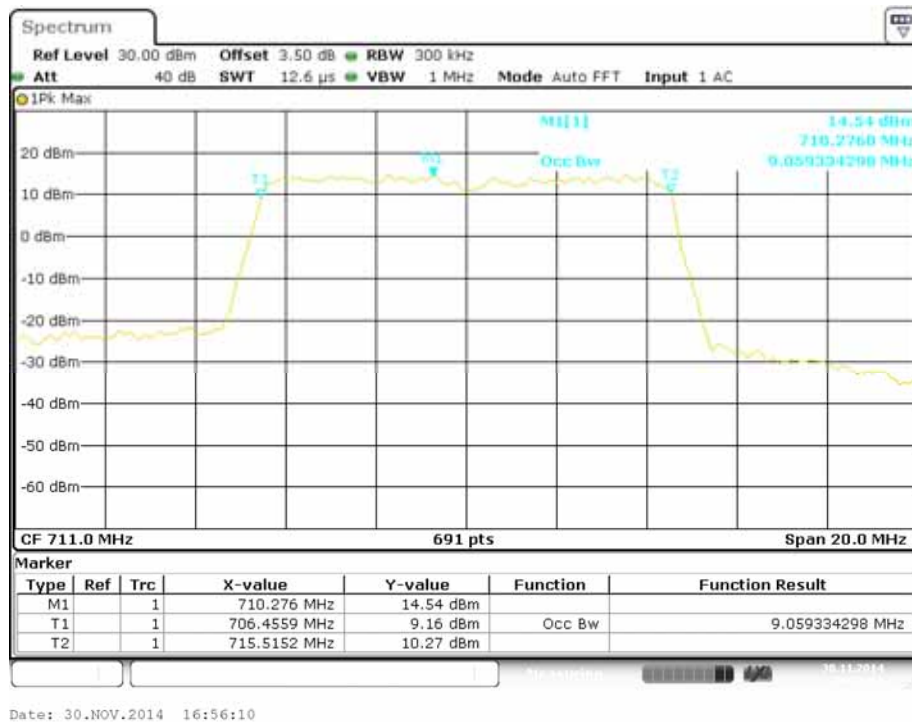
16-QAM (10.0 MHz) - 99% Occupied Bandwidth, Low channel



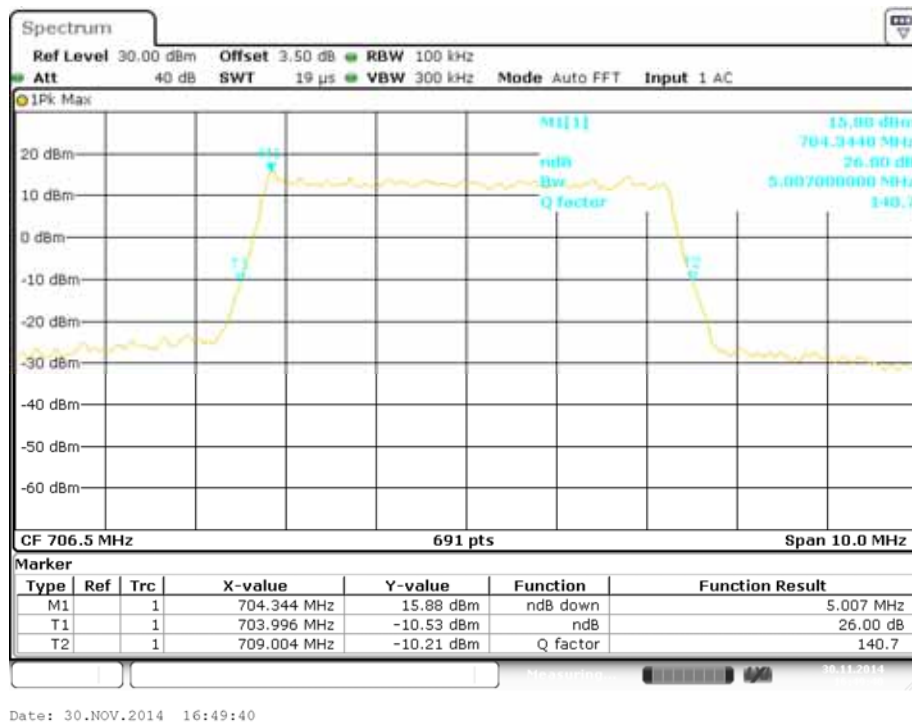
16-QAM (10.0 MHz) - 99% Occupied Bandwidth, Middle channel



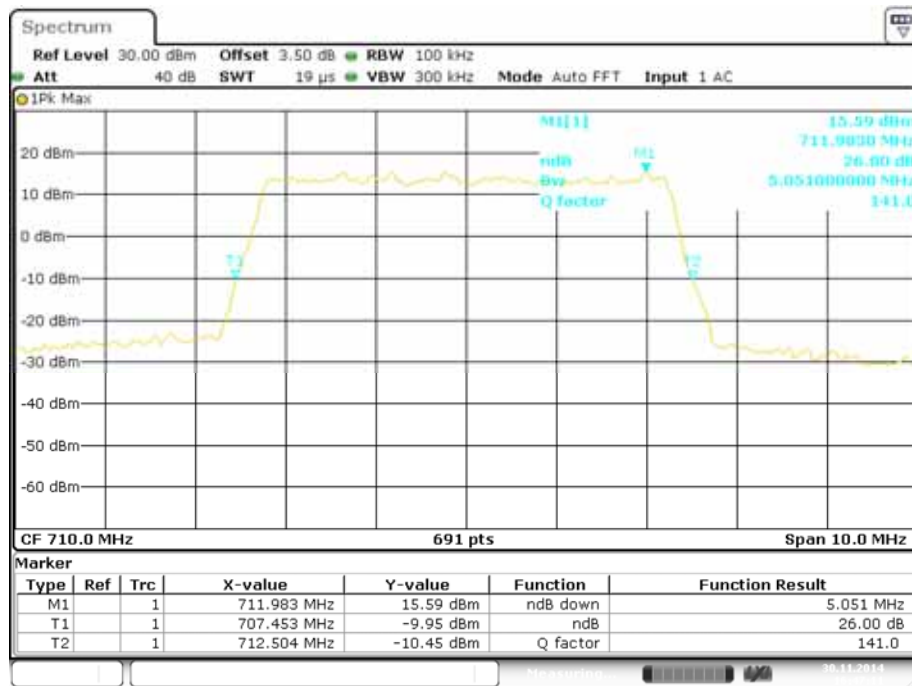
16-QAM (10.0 MHz) - 99% Occupied Bandwidth, High channel



QPSK (5.0 MHz) - 26 dB Bandwidth, Low channel



QPSK (5.0 MHz) - 26 dB Bandwidth, Middle channel



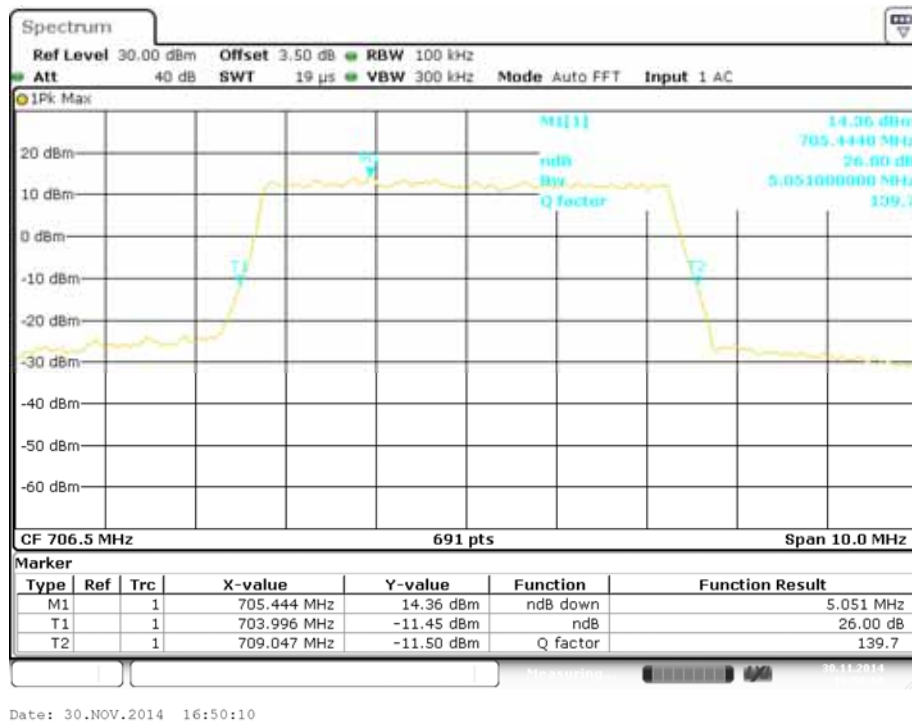
Date: 30.NOV.2014 16:47:11

QPSK (5.0 MHz) - 26 dB Bandwidth, High channel

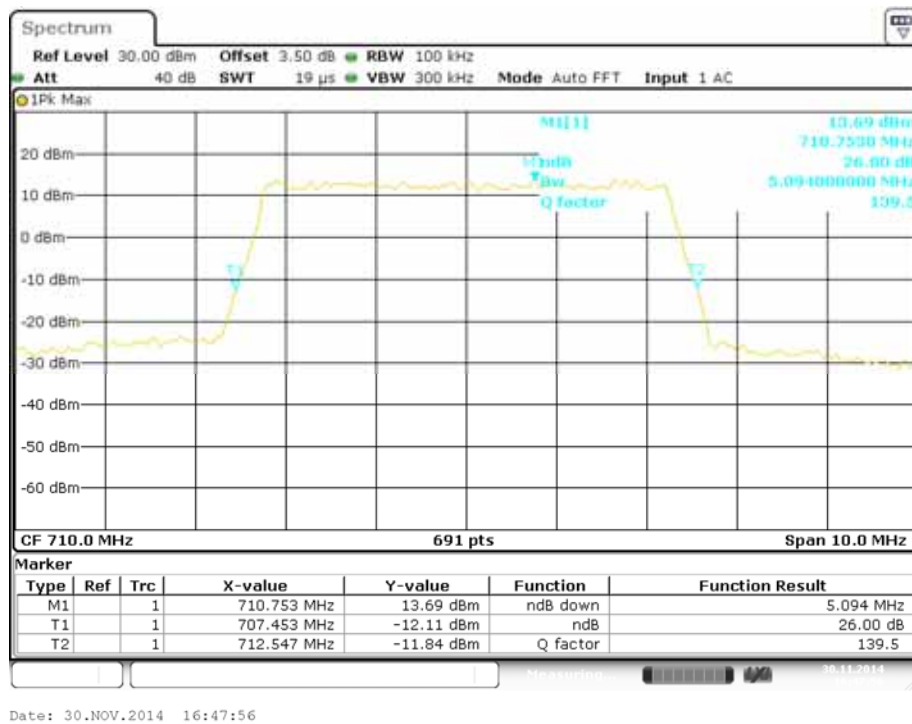


Date: 30.NOV.2014 16:48:59

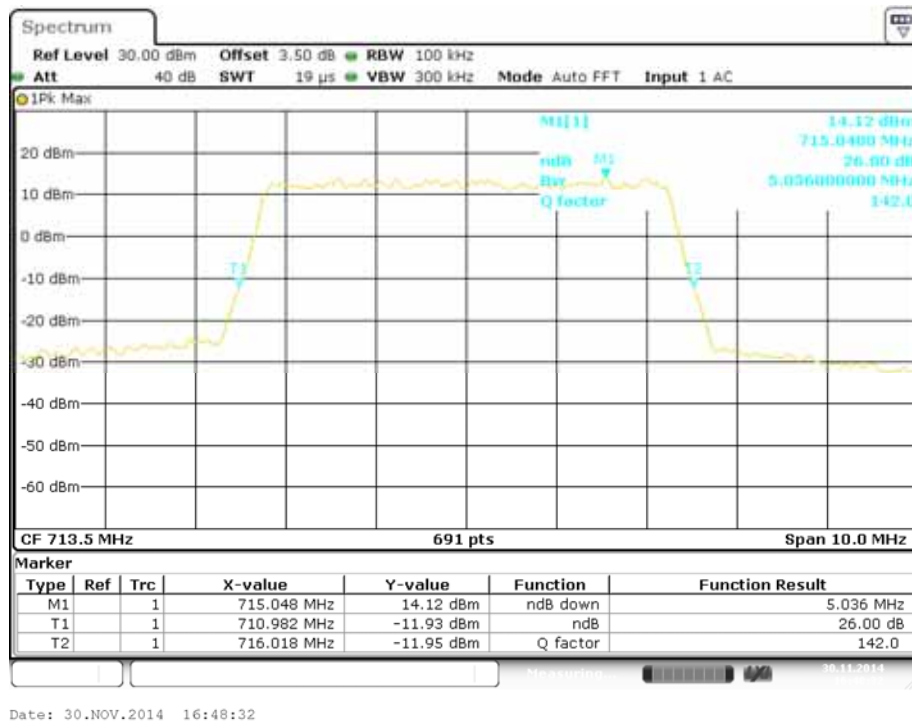
16-QAM (5.0 MHz) - 26 dB Bandwidth, Low channel



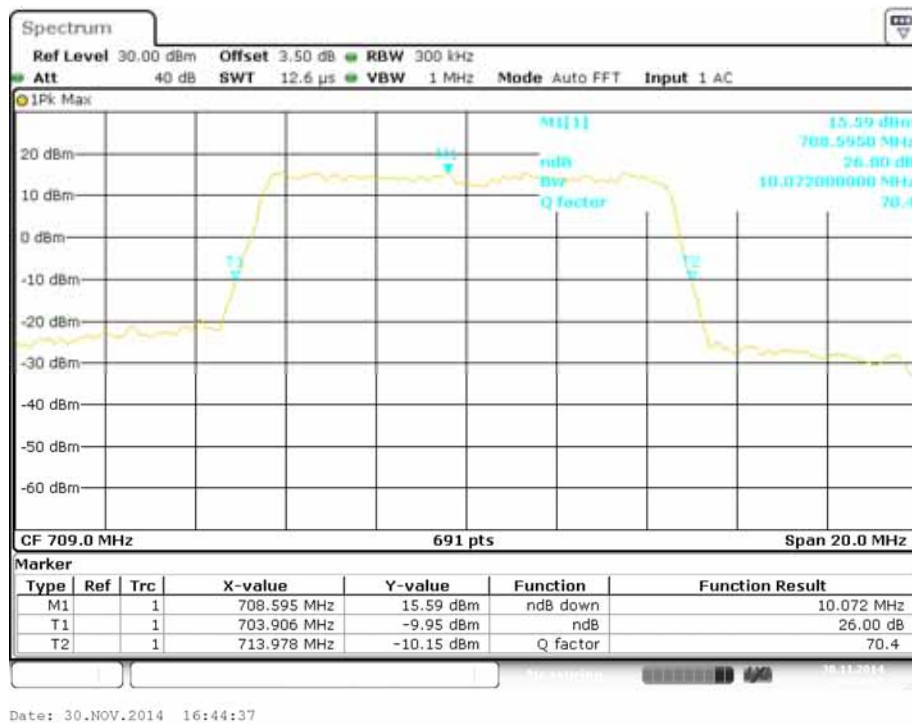
16-QAM (5.0 MHz) - 26 dB Bandwidth, Middle channel



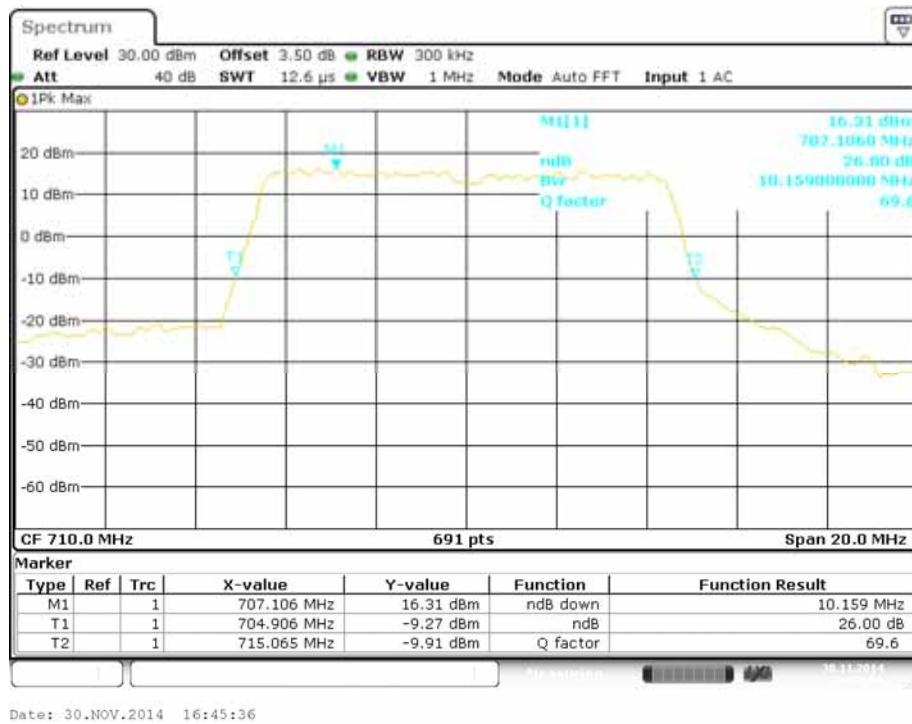
16-QAM (5.0 MHz) - 26 dB Bandwidth, High channel



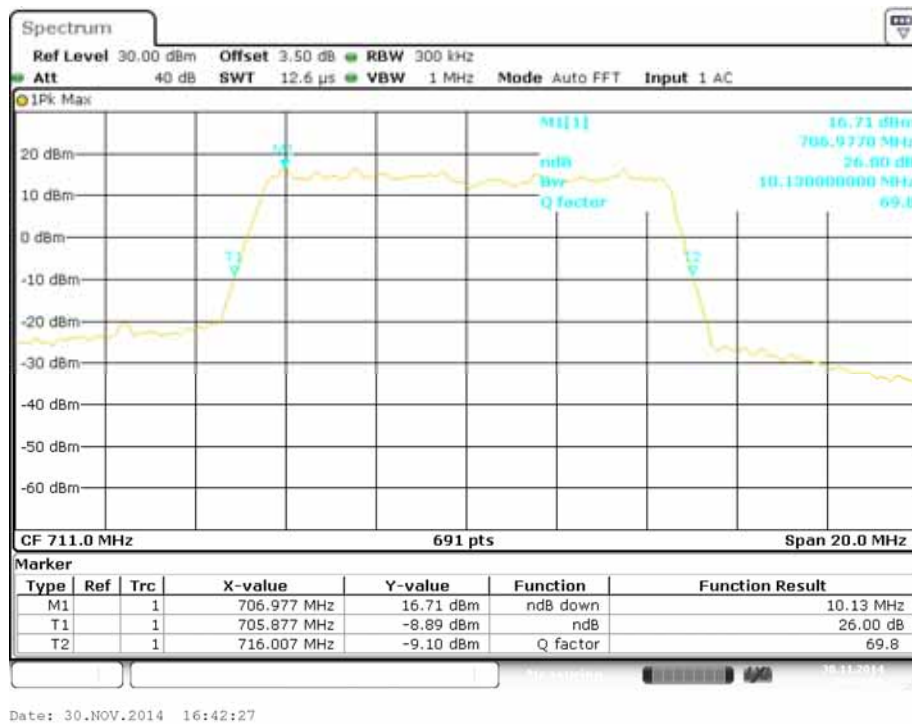
QPSK (10.0 MHz) - 26 dB Bandwidth, Low channel



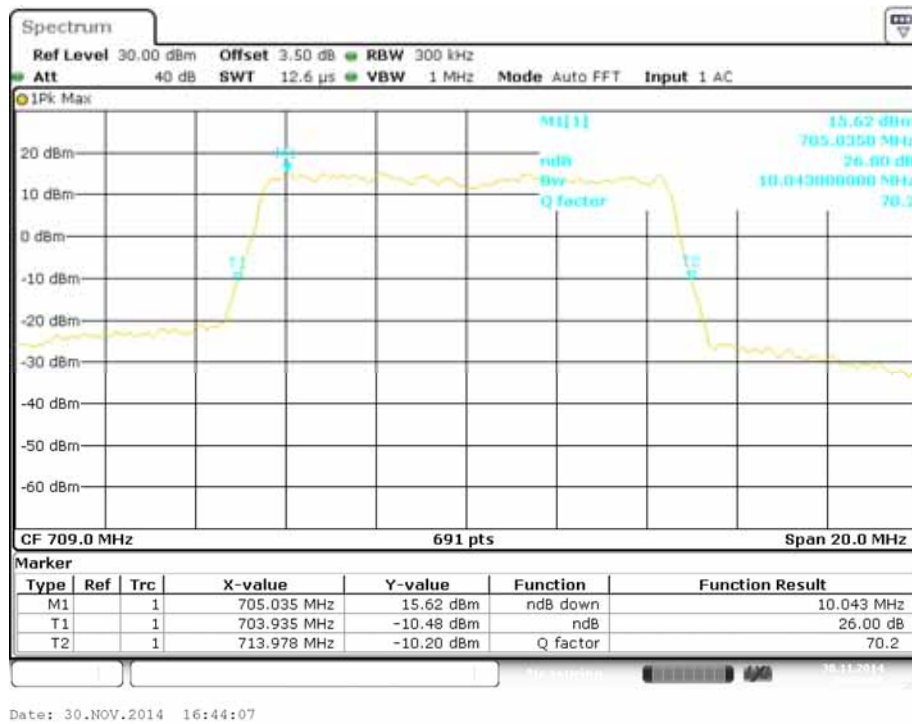
QPSK (10.0 MHz) - 26 dB Bandwidth, Middle channel



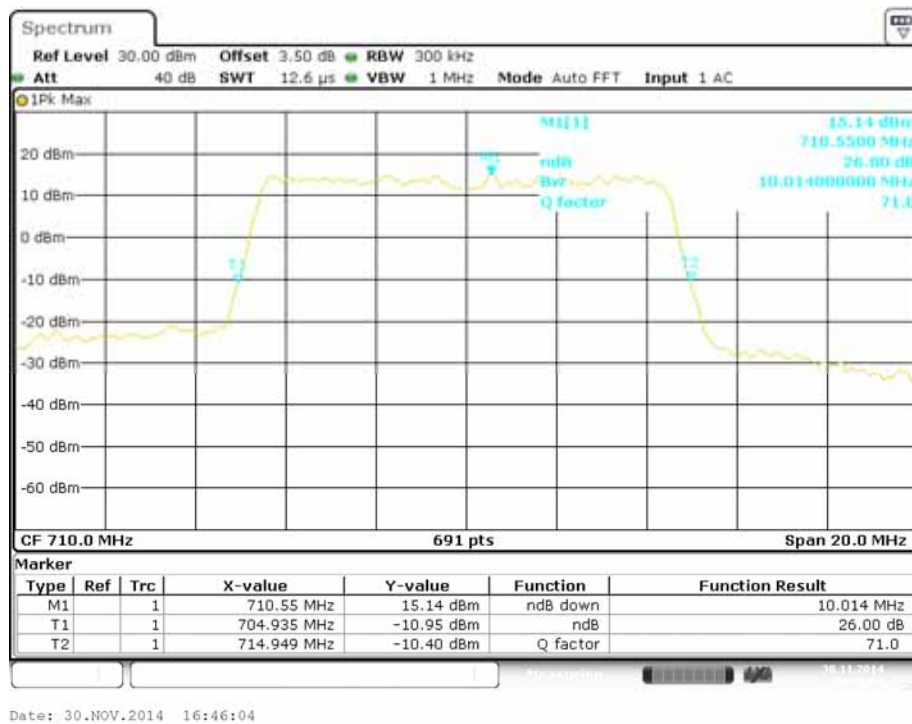
QPSK (10.0 MHz) - 26 dB Bandwidth, High channel



16-QAM (10.0 MHz) - 26 dB Bandwidth, Low channel



16-QAM (10.0 MHz) - 26 dB Bandwidth, Middle channel



16-QAM (10.0 MHz) - 26 dB Bandwidth, High channel



Date: 30.NOV.2014 16:43:19

FCC §2.1051 & §27.53- SPURIOUS EMISSIONS AT ANTENNA TERMINALS

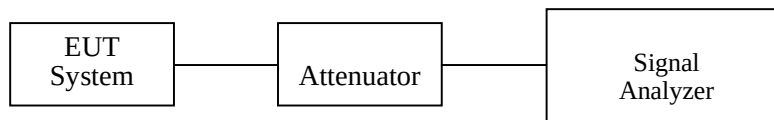
Applicable Standards

FCC §2.1051 and §27.53.

The spectrum was to be investigated to the tenth harmonics of the highest fundamental frequency as specified in § 2.1051.

Test Procedure

The RF output of the transceiver was connected to a spectrum analyzer and simulator through appropriate attenuation. The resolution bandwidths of the spectrum analyzer were set at 100 kHz @ below 1GHz, 1MHz @ above 1GHz. sufficient scans were taken to show any out of band emissions up to 10th harmonic.



Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	Signal Analyzer	FSIQ26	837405/023	2014-08-22	2015-08-22

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

Test Data

Environmental Conditions

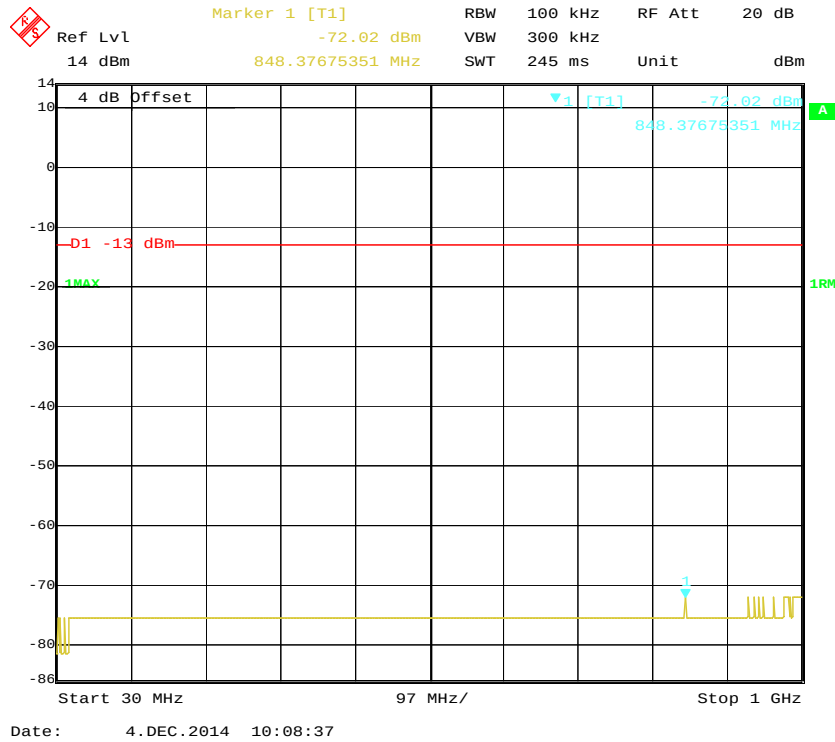
Temperature:	19 °C
Relative Humidity:	60 %
ATM Pressure:	100.0 kPa

The testing was performed by William Li on 2014-12-04.

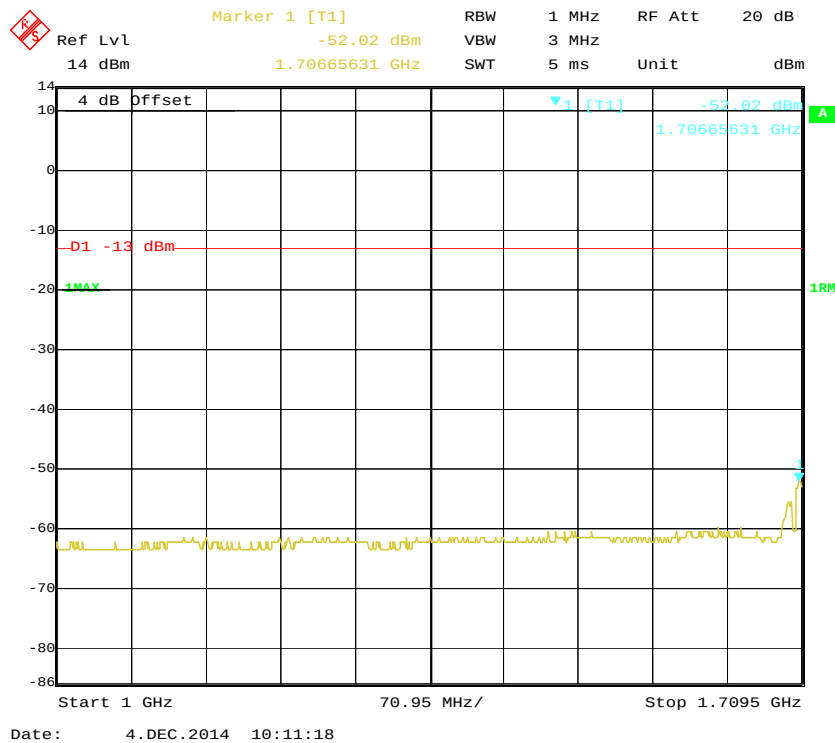
Please refer to the following plots.

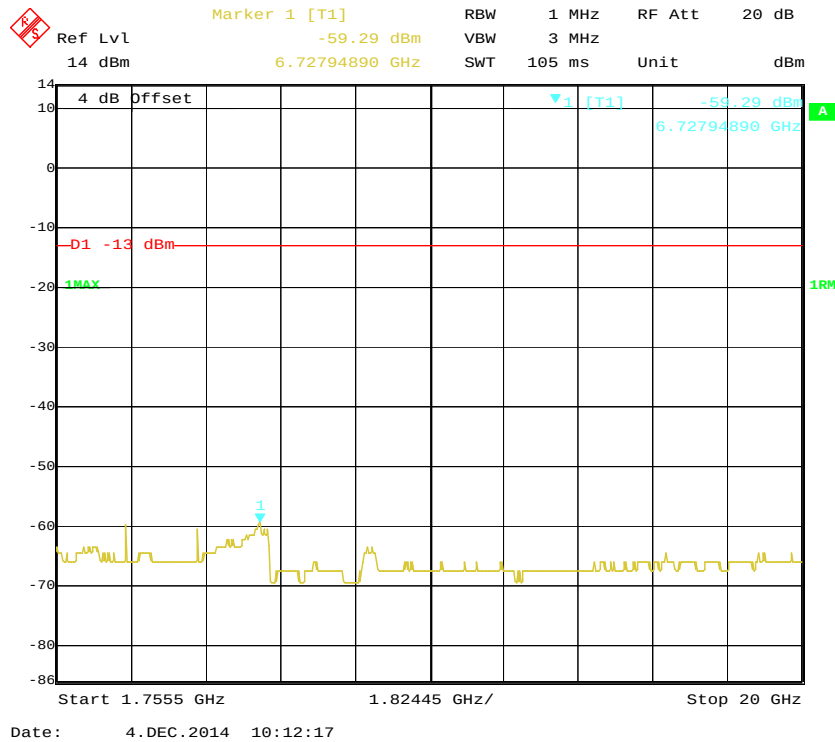
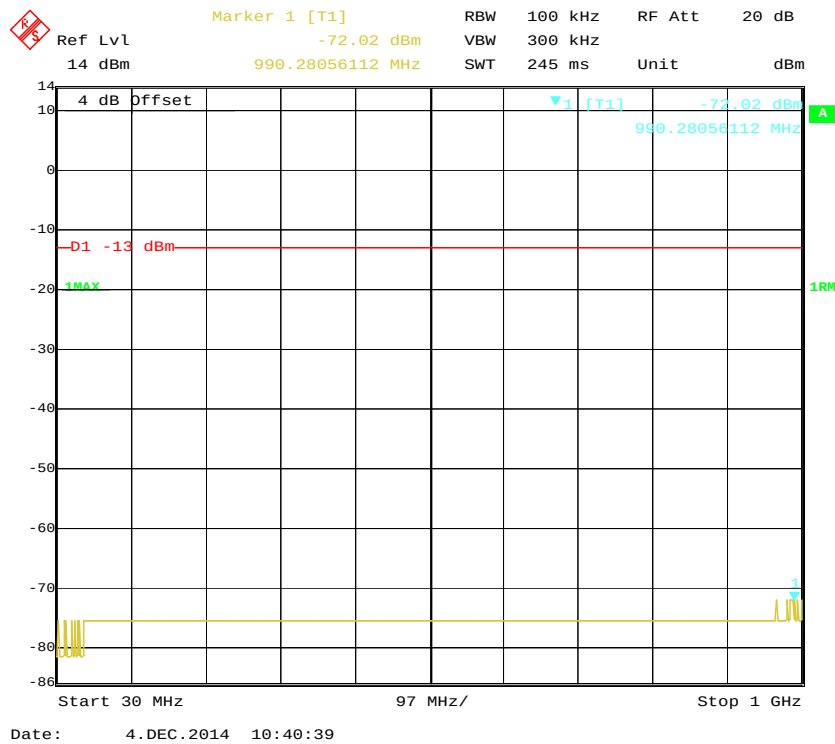
Band 4:

30 MHz - 1 GHz (1.4 MHz, Middle Channel)

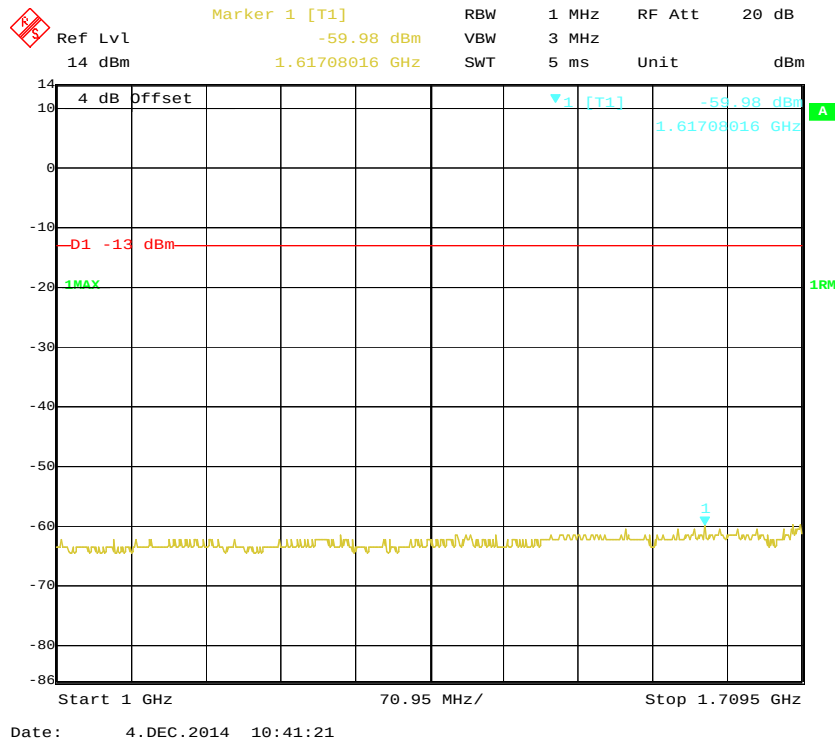


1 GHz – 1.7095 GHz (1.4 MHz, Middle Channel)

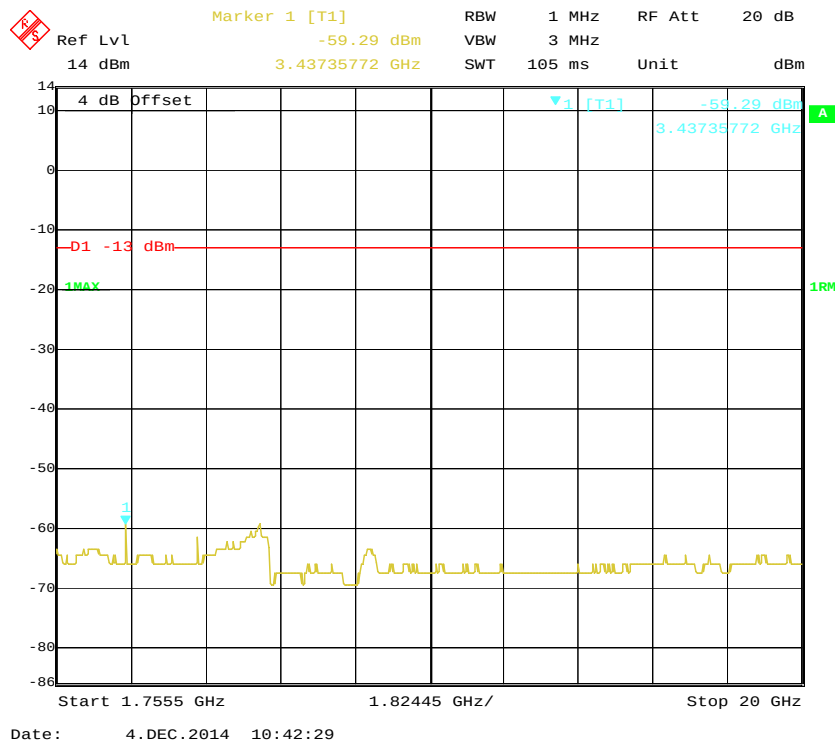


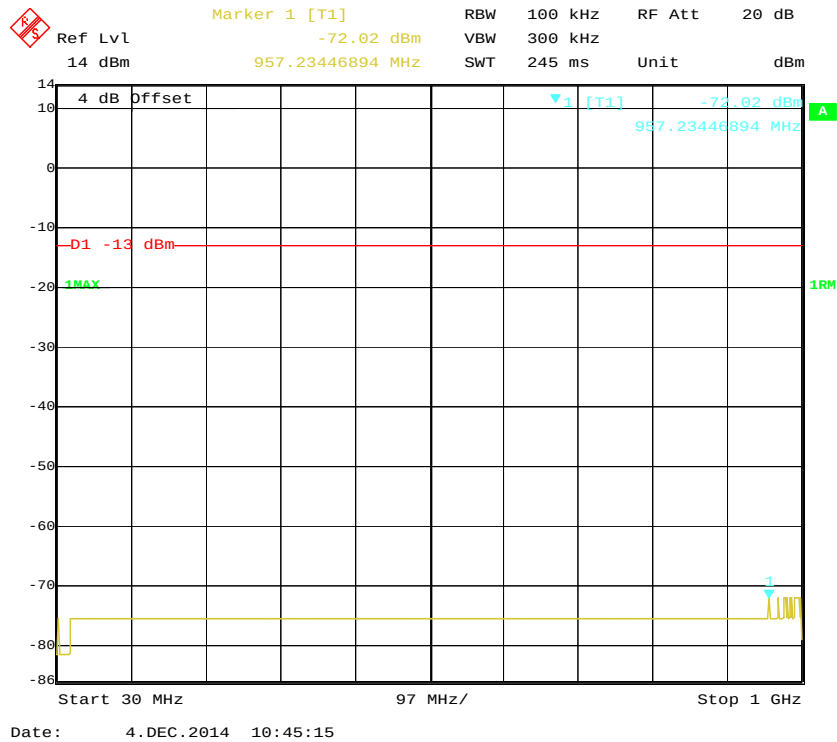
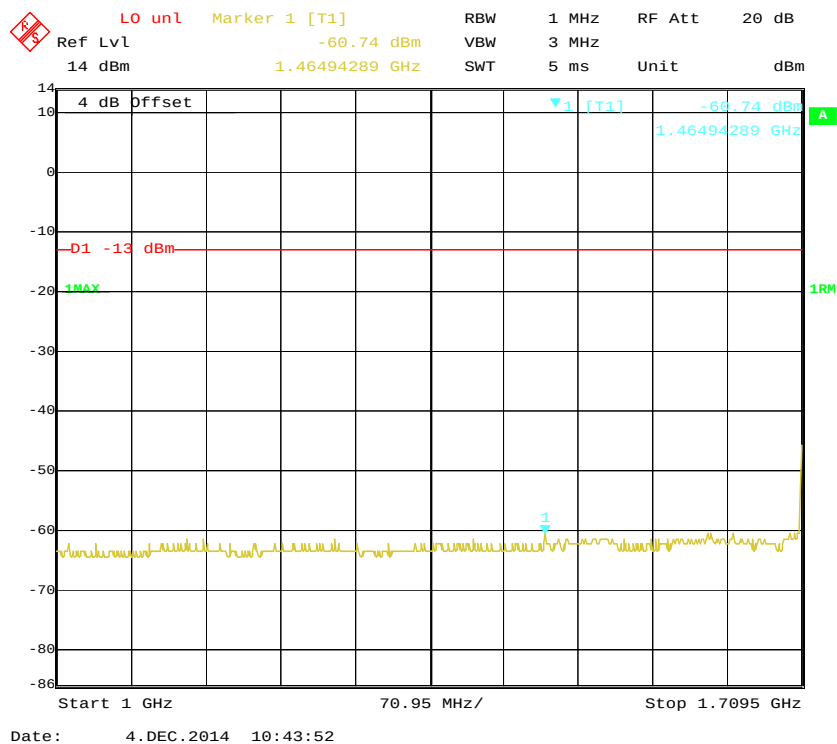
1.7555 GHz - 20 GHz (1.4 MHz, Middle Channel)**30 MHz - 1 GHz (3.0 MHz, Middle Channel)**

1 GHz – 1.7095 GHz (3.0 MHz, Middle Channel)

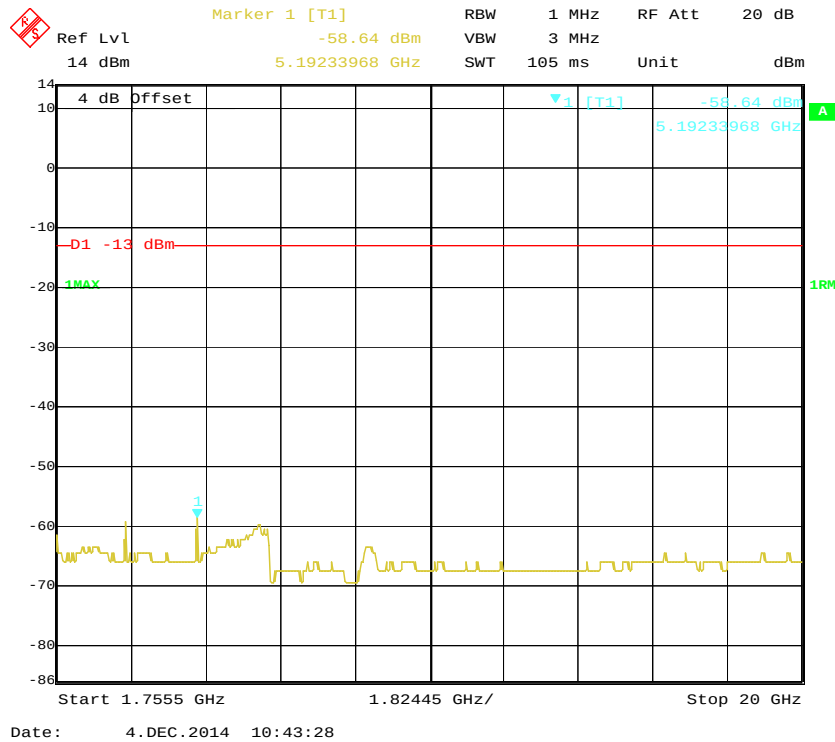


1.7555 GHz - 20 GHz (3.0 MHz, Middle Channel)

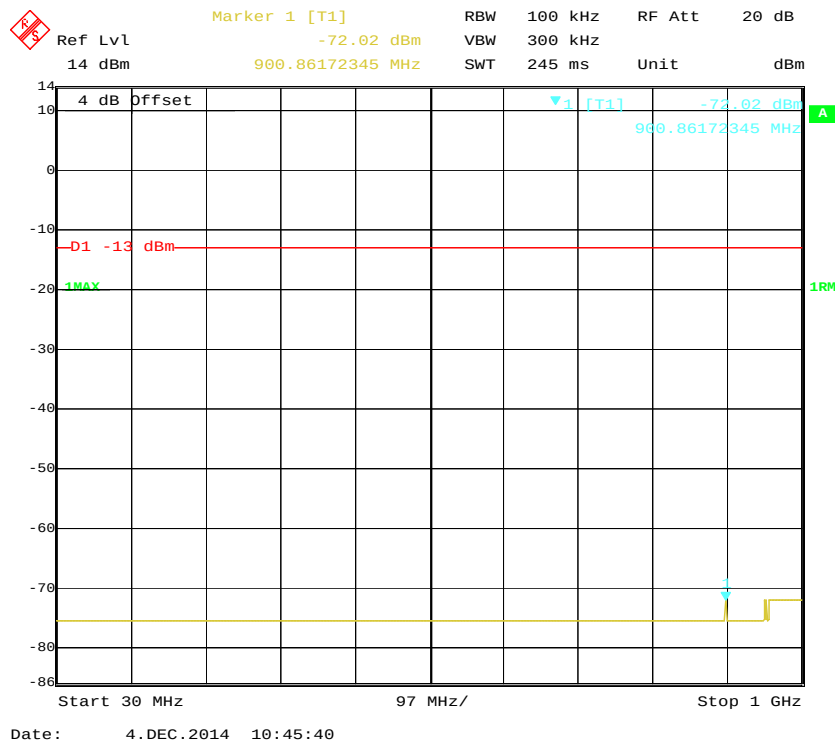


30 MHz - 1 GHz (5.0 MHz, Middle Channel)**1 GHz - 1.709 GHz (5.0 MHz, Middle Channel)**

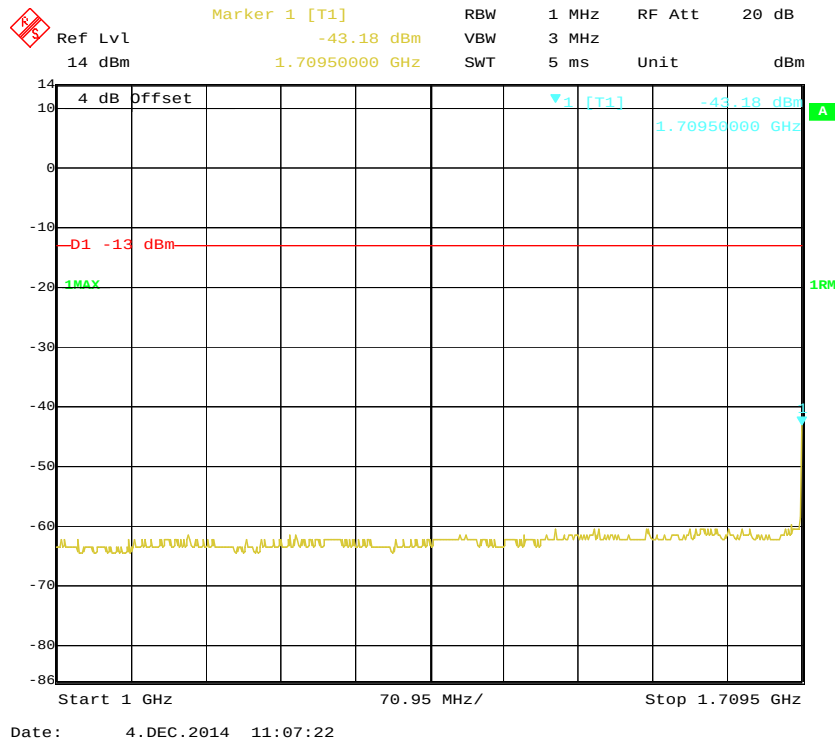
1.7555 GHz - 20 GHz (5.0 MHz, Middle Channel)



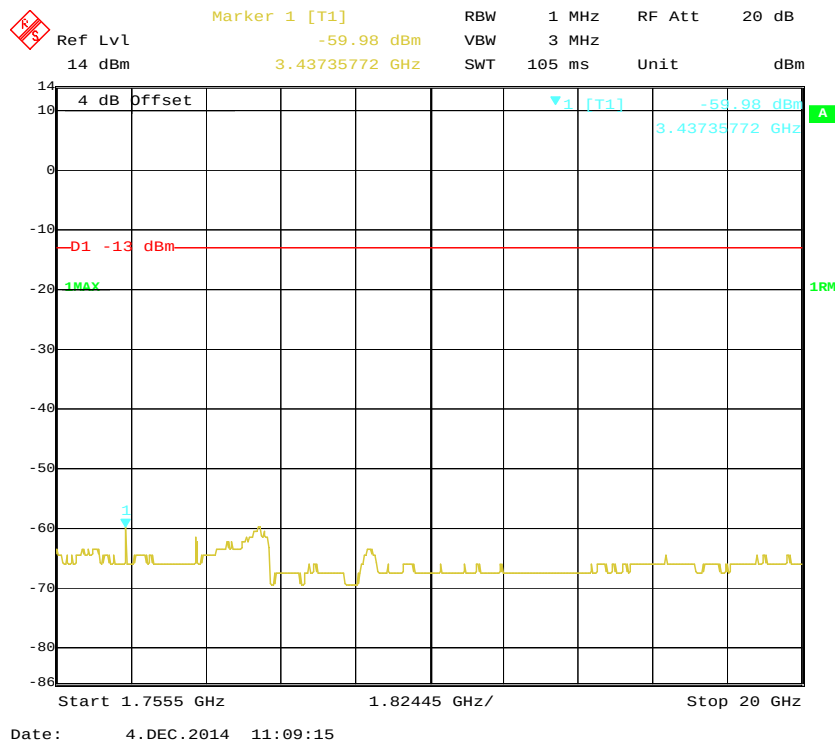
30 MHz - 1 GHz (10.0 MHz, Middle Channel)



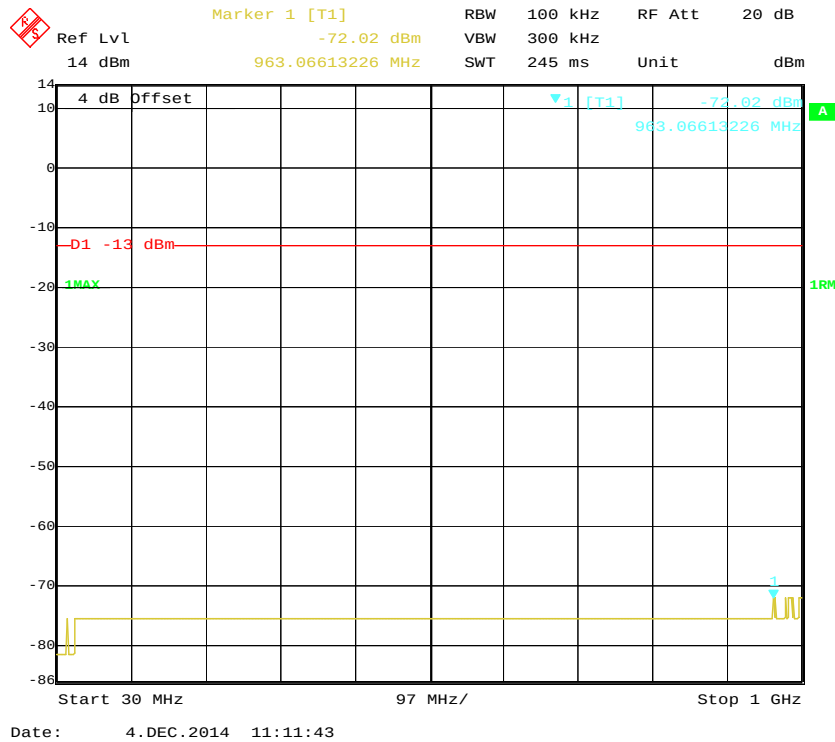
1 GHz – 1.709 GHz (10.0 MHz, Middle Channel)



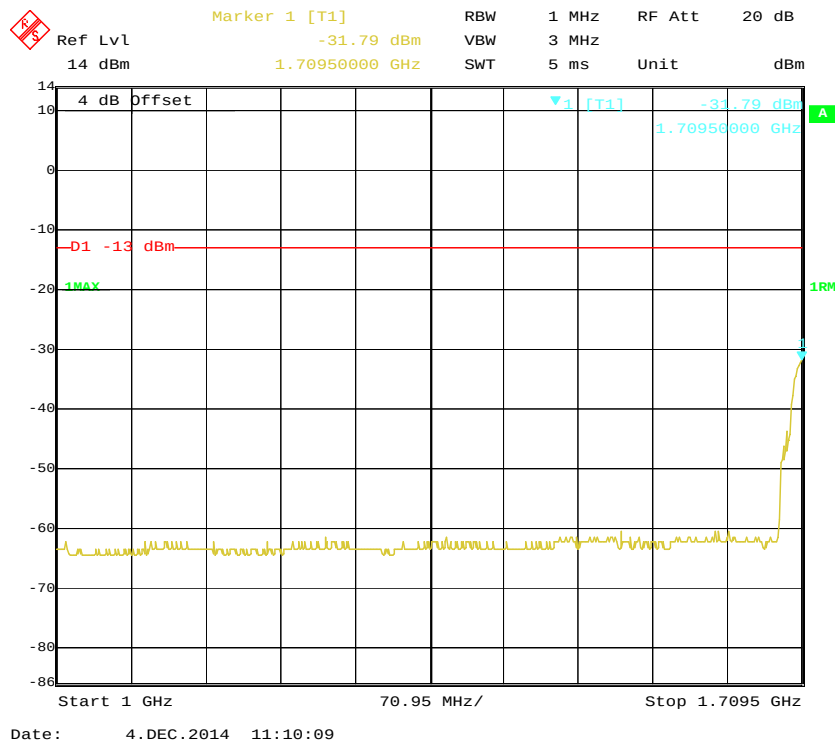
1.7555 GHz - 20 GHz (10.0 MHz, Middle Channel)



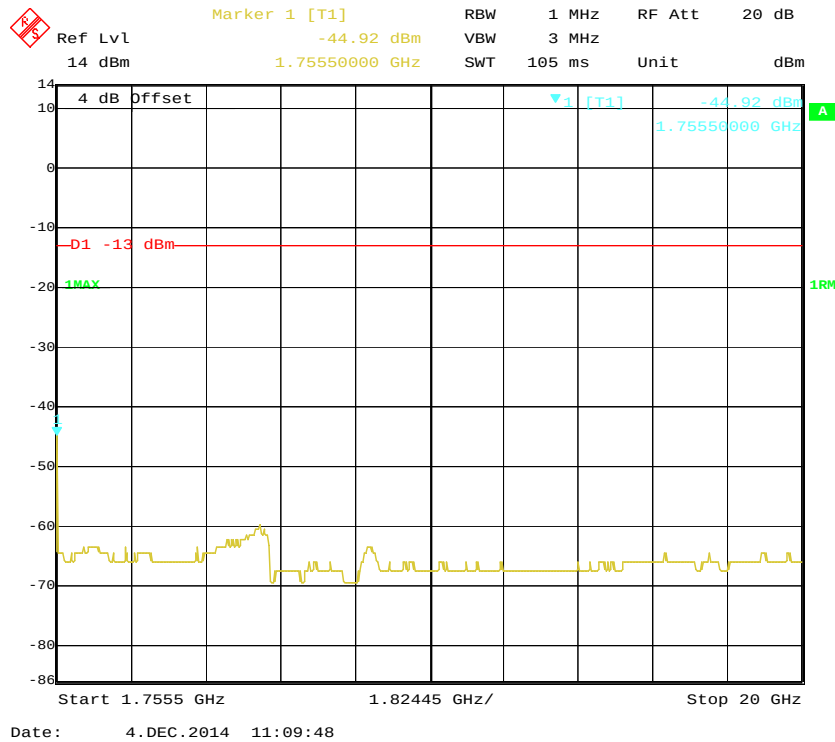
30 MHz - 1 GHz (15.0 MHz, Middle Channel)



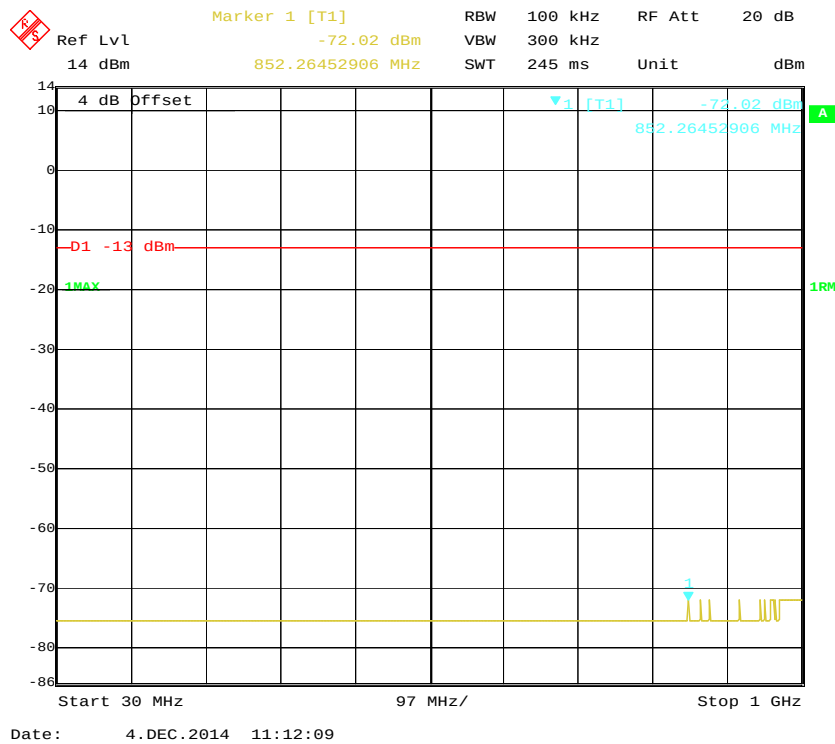
1 GHz - 1.709 GHz (15.0 MHz, Middle Channel)



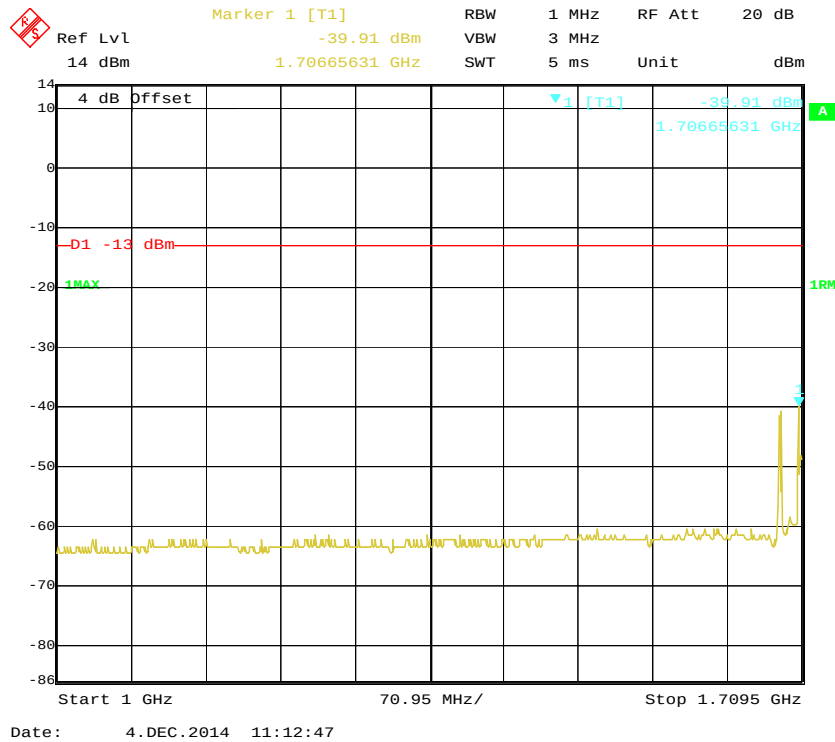
1.7555 GHz - 20 GHz (15.0 MHz, Middle Channel)



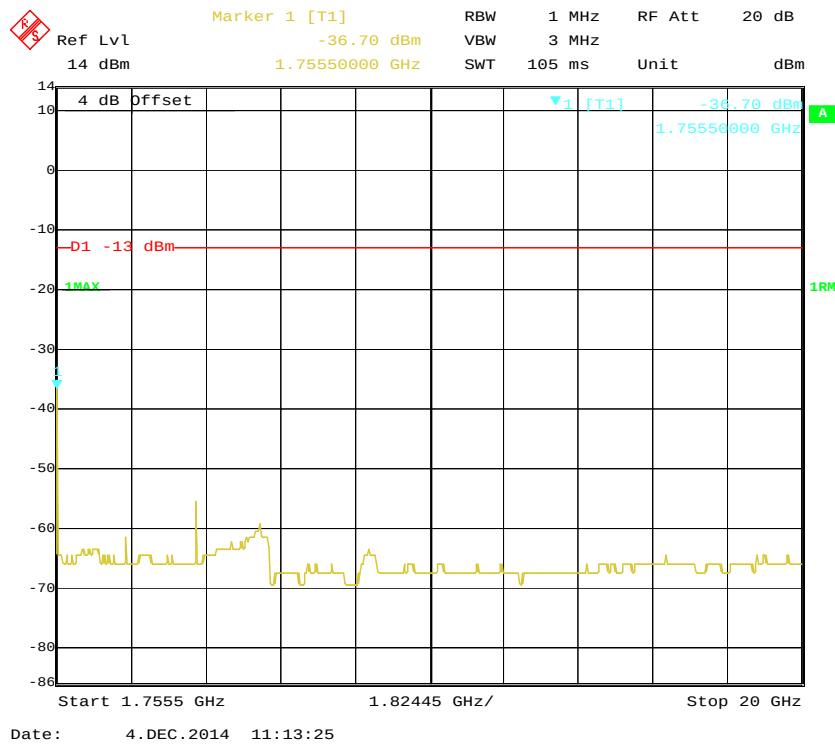
30 MHz - 1 GHz (20.0 MHz, Middle Channel)

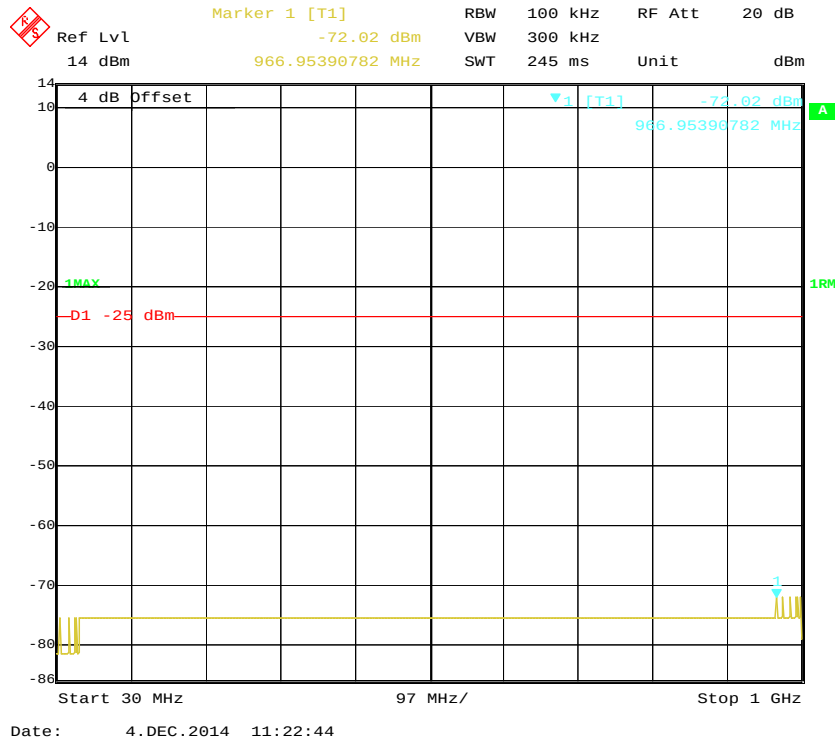
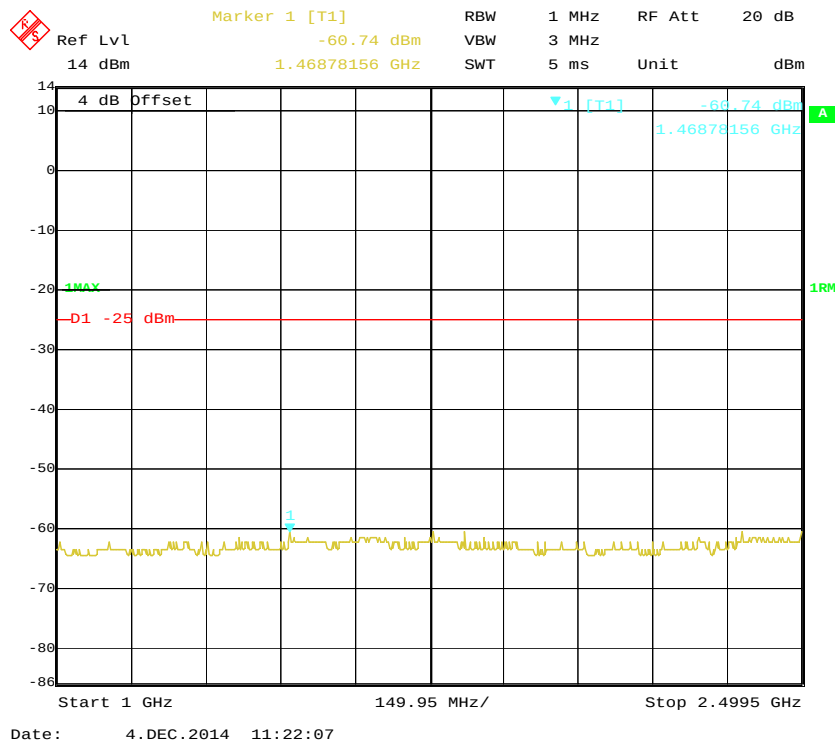


1 GHz – 1.709 GHz (20.0 MHz, Middle Channel)

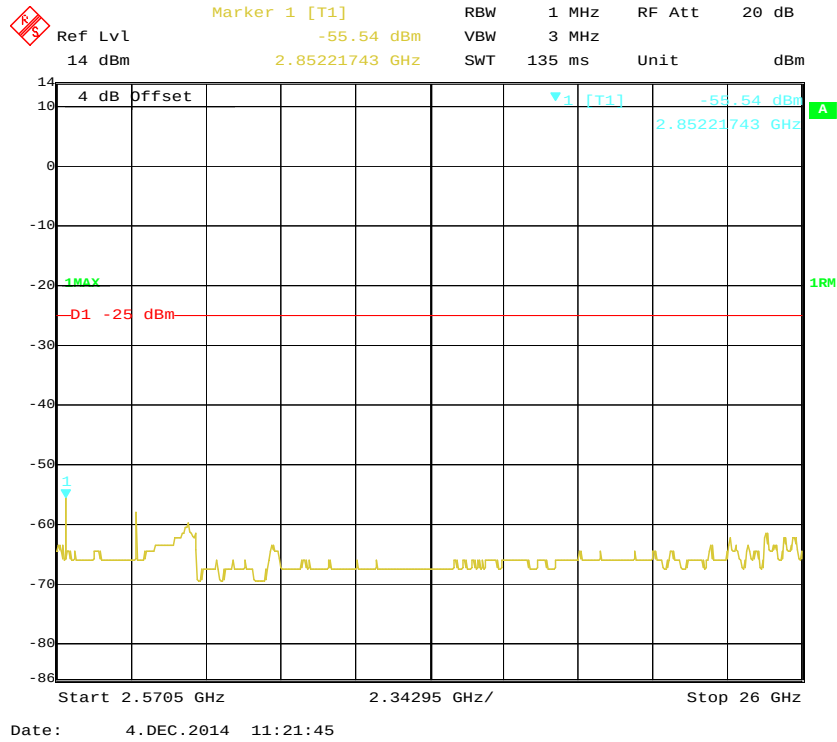


1.755 GHz - 20 GHz (20.0 MHz, Middle Channel)

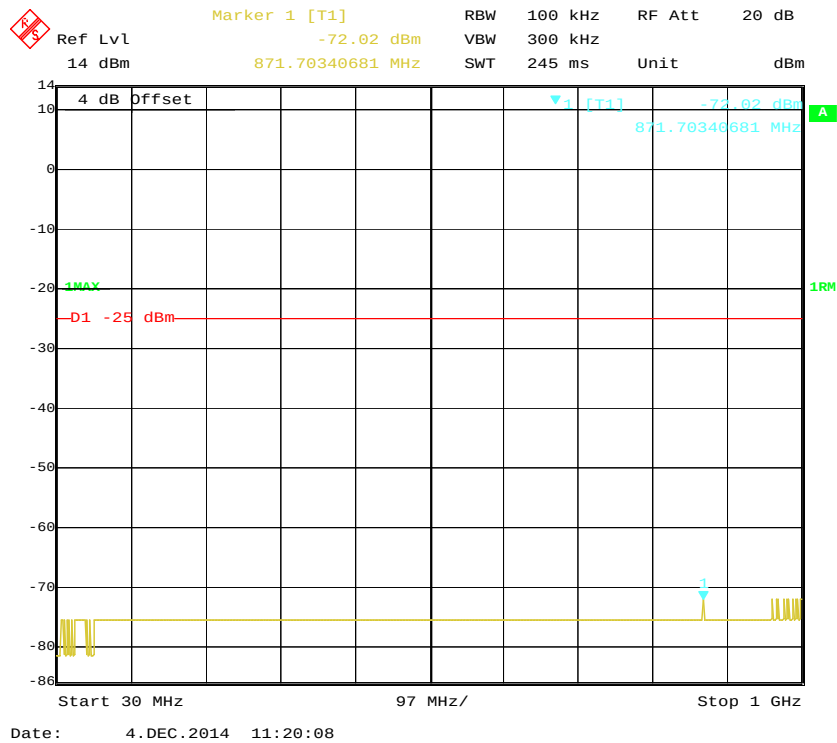


Band 7:**30 MHz - 1 GHz (5.0 MHz, Middle Channel)****1 GHz – 2.4995 GHz (5.0 MHz, Middle Channel)**

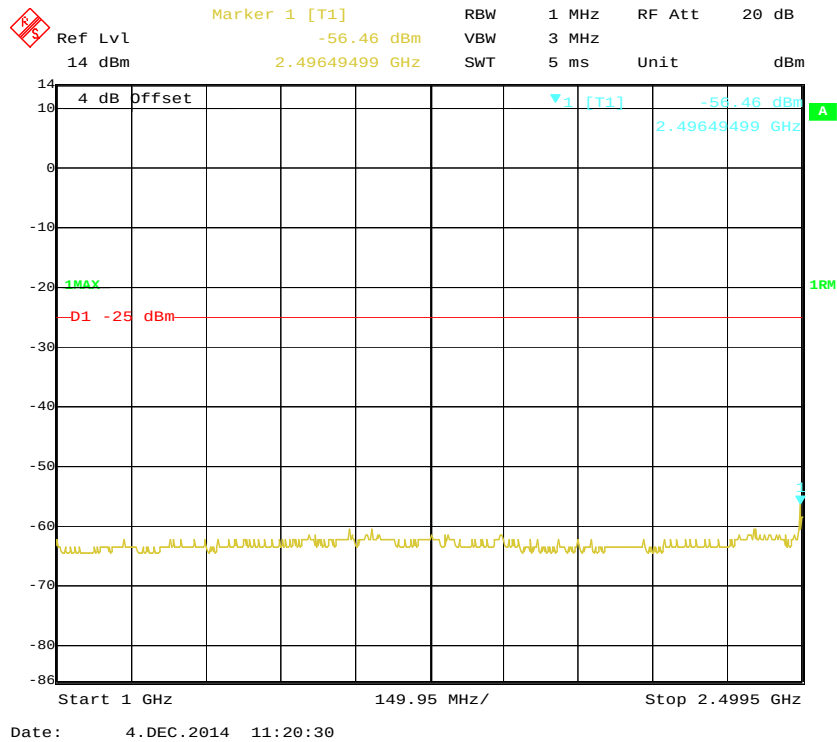
2.5705 GHz - 26 GHz (5.0 MHz, Middle Channel)



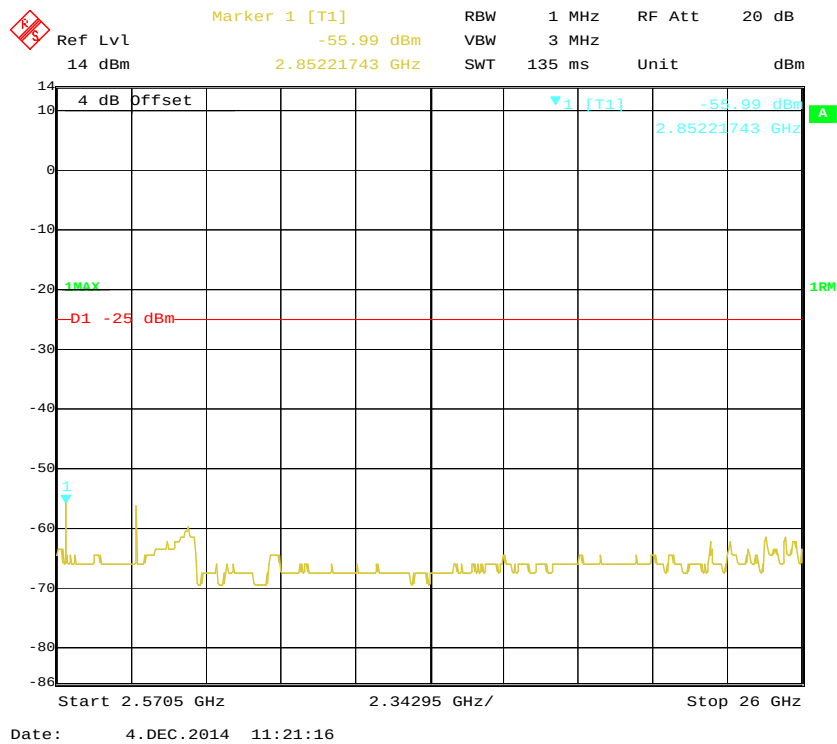
30 MHz - 1 GHz (10.0 MHz, Middle Channel)

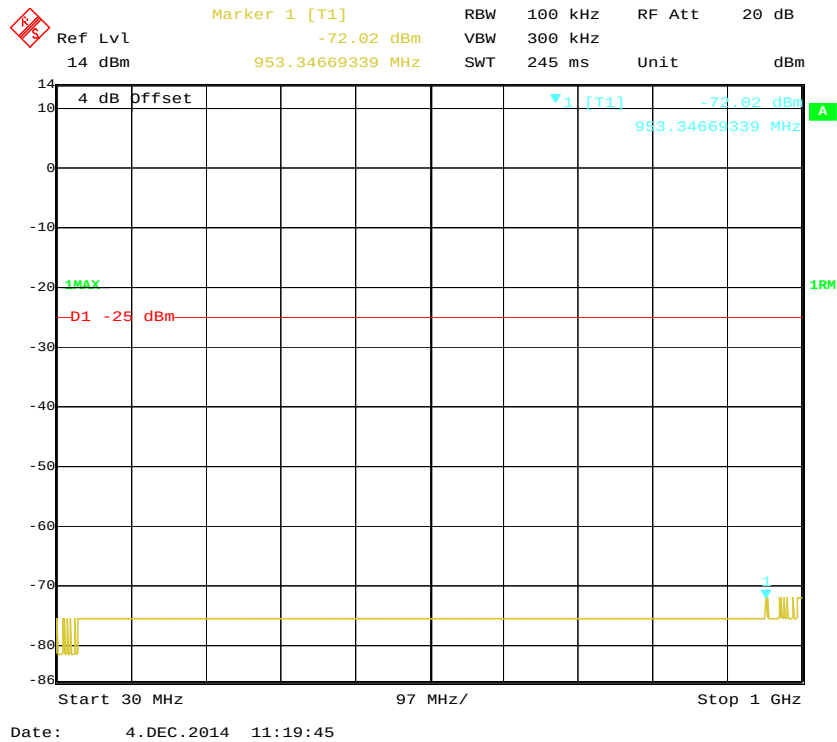
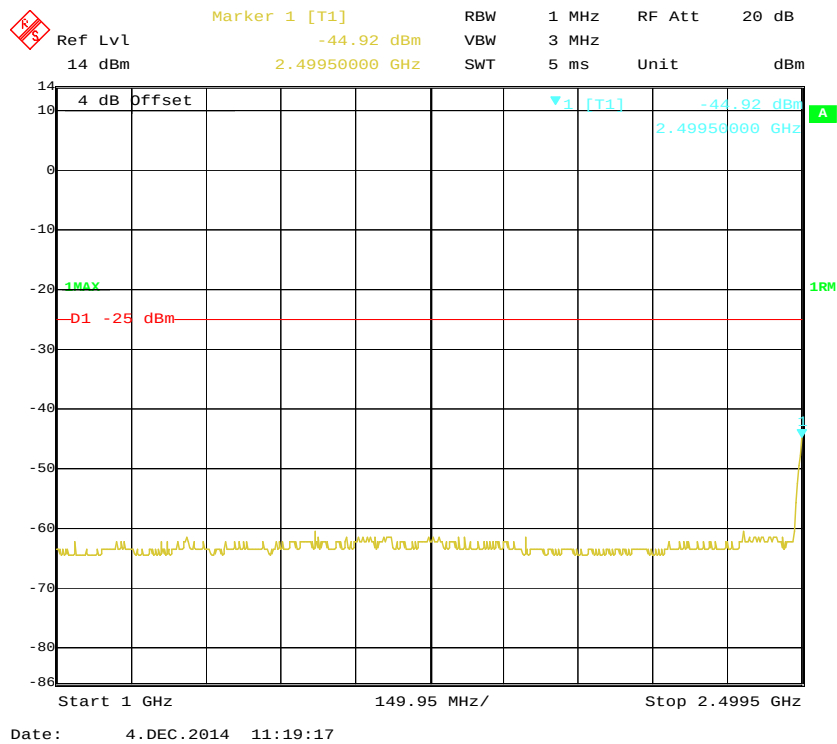


1 GHz – 2.4995 GHz (10.0 MHz, Middle Channel)

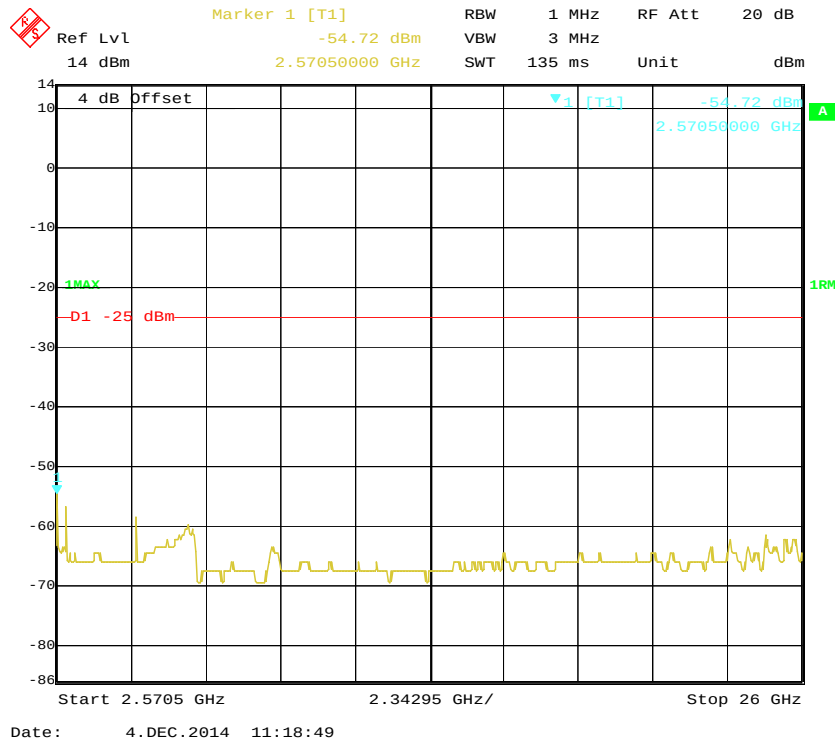


2.5705 GHz - 26 GHz (10.0 MHz, Middle Channel)

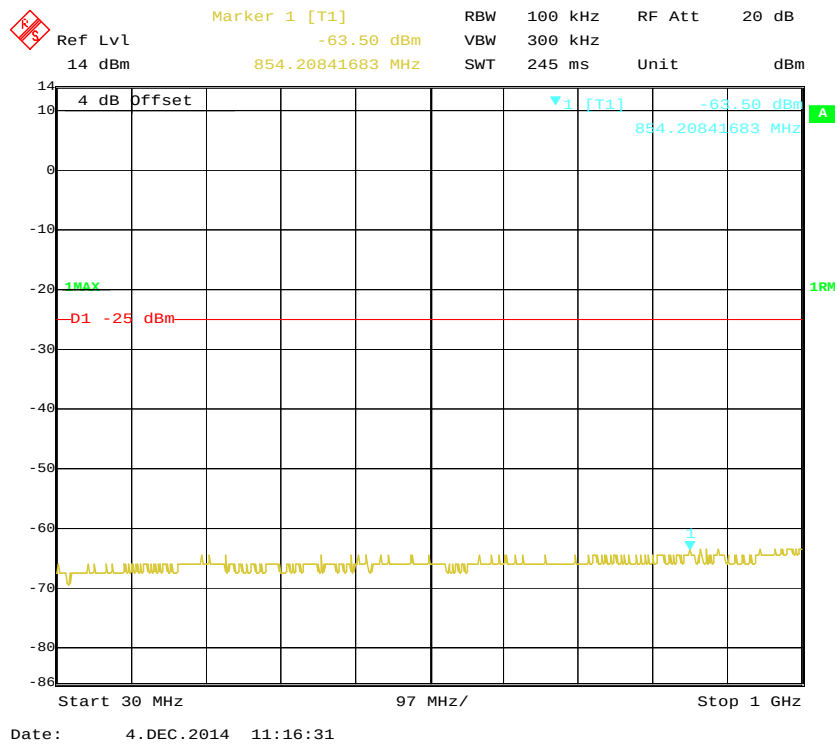


30 MHz - 1 GHz (15.0 MHz, Middle Channel)**1 GHz – 2.4995 GHz (15.0 MHz, Middle Channel)**

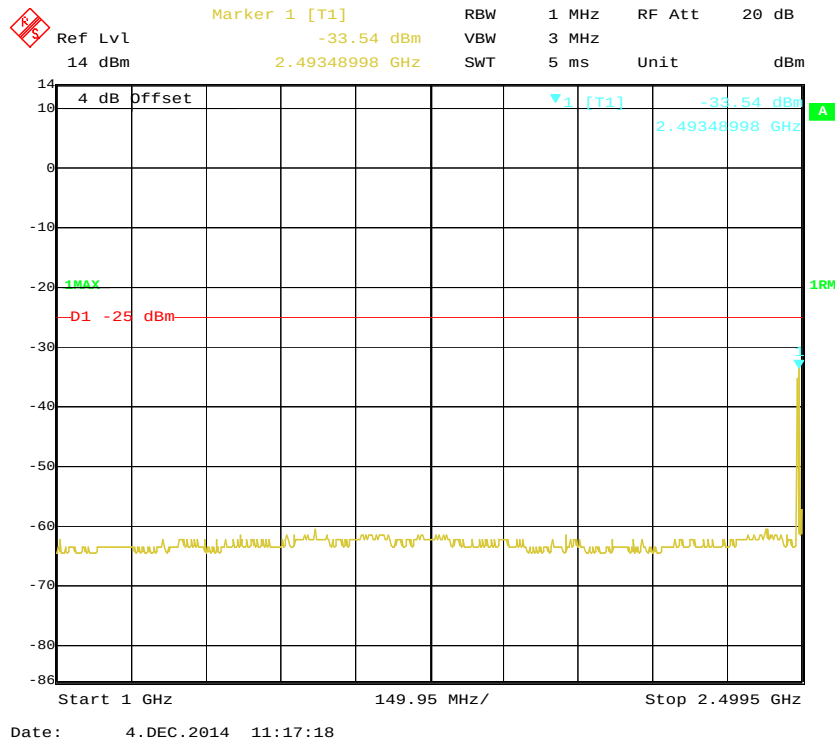
2.5705 GHz - 26 GHz (15.0 MHz, Middle Channel)



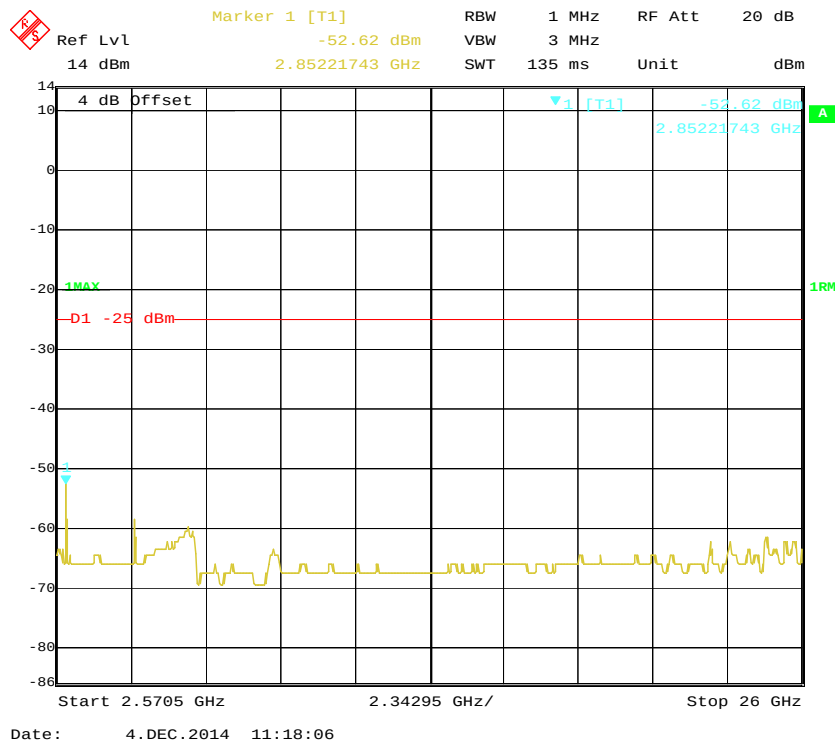
30 MHz - 1 GHz (20.0 MHz, Middle Channel)

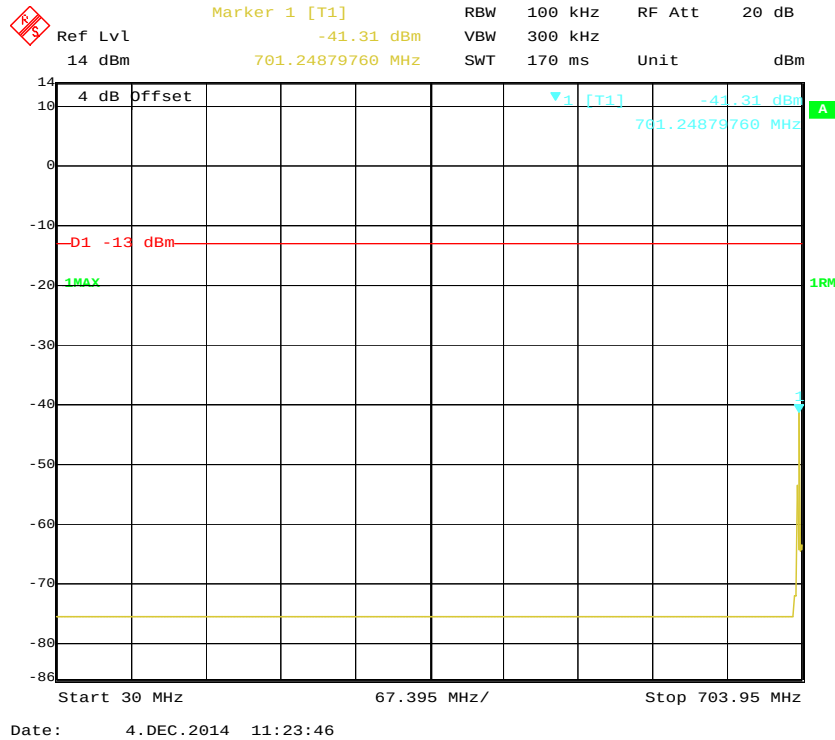
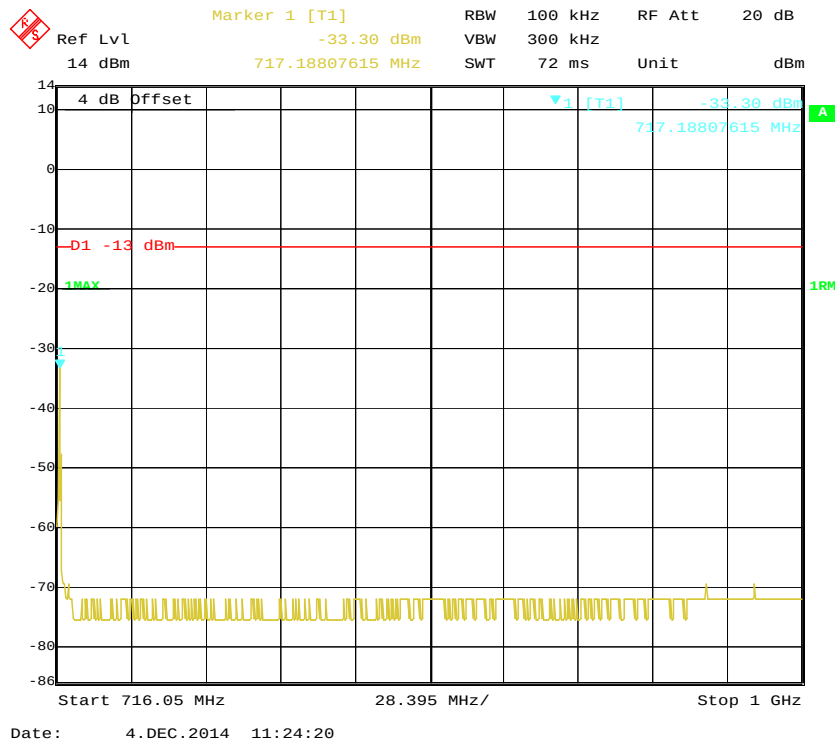


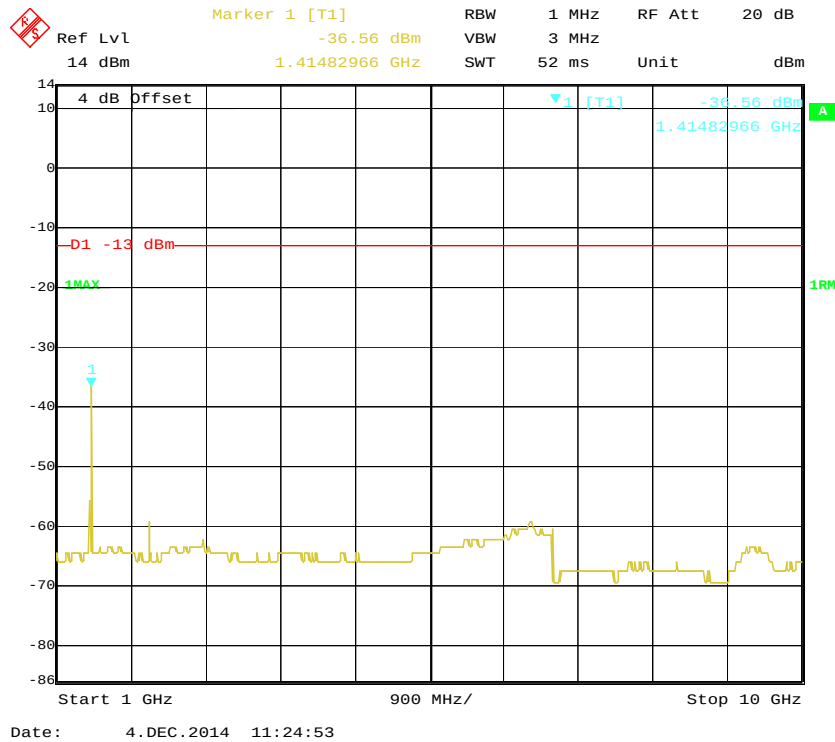
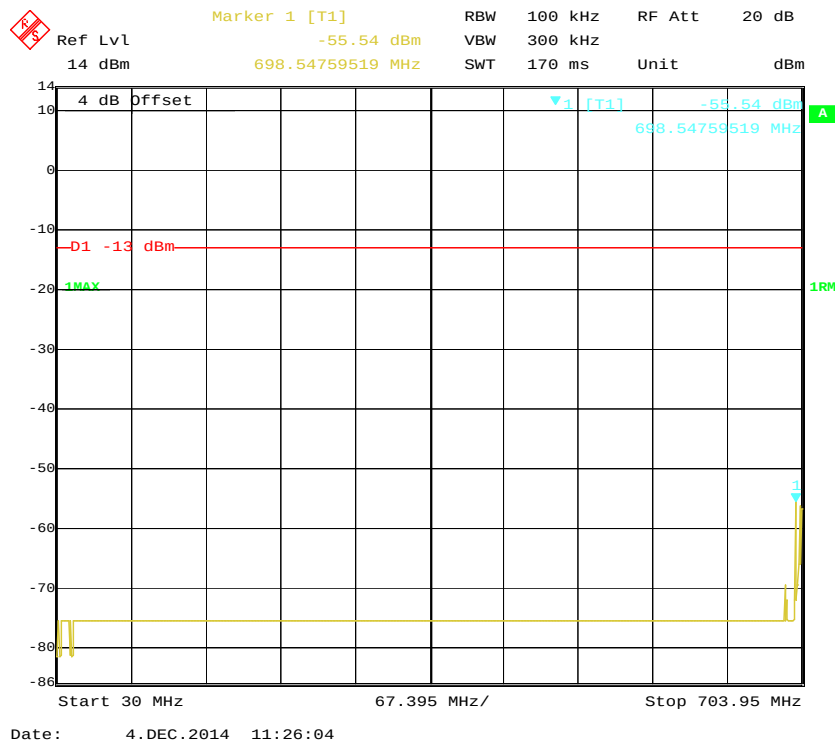
1 GHz – 2.4995 GHz (20.0 MHz, Middle Channel)



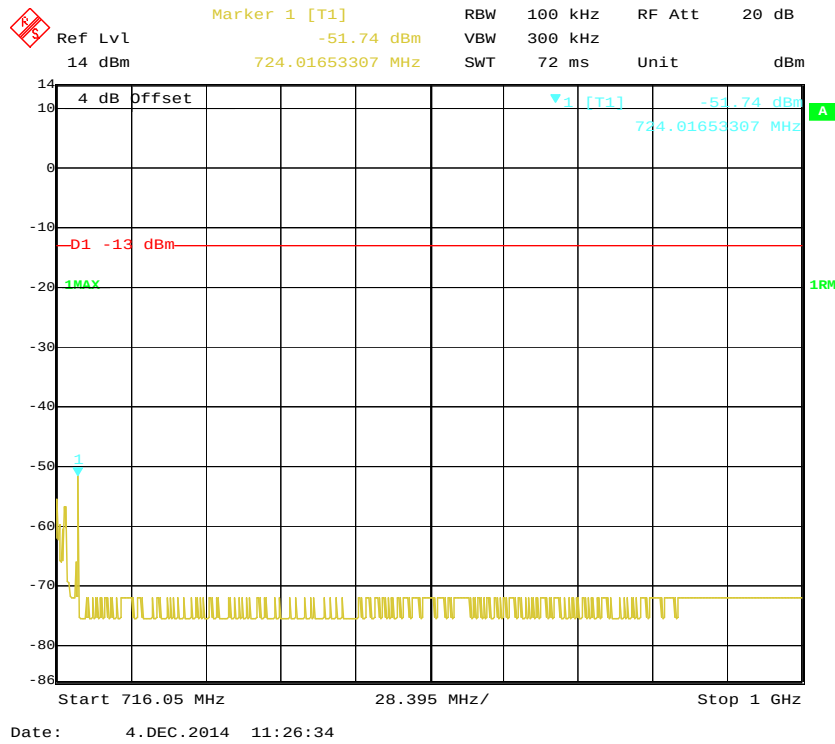
2.5705 GHz - 26 GHz (20.0 MHz, Middle Channel)



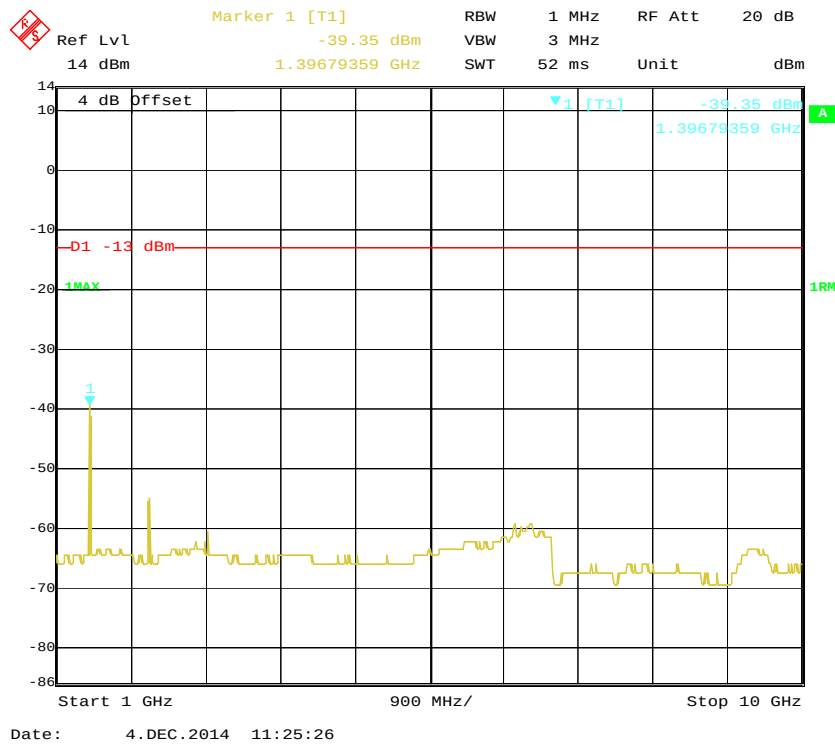
Band 17:**30 MHz – 703.95 MHz (5.0 MHz, Middle Channel)****716.05 MHz – 1 GHz (5.0 MHz, Middle Channel)**

1 GHz - 10 GHz (5.0 MHz, Middle Channel)**30 MHz – 703.95 MHz (10.0 MHz, Middle Channel)**

716.05 MHz – 1 GHz (10.0 MHz, Middle Channel)



1 GHz - 10 GHz (10.0 MHz, Middle Channel)



FCC §2.1053 & §27.53 - SPURIOUS RADIATED EMISSIONS

Applicable Standards

FCC § 2.1053 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 (TX pwr in Watts/0.001) – the absolute level

Spurious attenuation limit in dB = 43 + 10 Log₁₀ (power out in Watts)

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Sunol Sciences	Horn Antenna	DRH-118	A052304	2014-12-01	2015-11-30
Sunol Sciences	Broadband Antenna	JB3	A111513	2014-6-18	2017-6-17
Rohde & Schwarz	Signal Analyzer	FSIQ26	837405/023	2014-08-22	2015-08-22
Mini-Circuits	Amplifier	ZVA-213+	N/A	NCR	NCR
HP	Amplifier	HP8447E	1937A01046	2014-05-06	2015-05-06
HP	Signal Generator	8341B	2624A00116	2014-06-03	2015-06-03
COM POWER	Dipole Antenna	AD-100	041000	NCR	NCR
A.H. System	Horn Antenna	SAS-200/571	135	2012-02-11	2015-02-10

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

Test Data**Environmental Conditions**

Temperature:	20 °C
Relative Humidity:	58 %
ATM Pressure:	101.0 kPa

The testing was performed by William Li on 2014-12-03.

Test mode: Transmitting (Pre-scan with all the bandwidth, and worse case as below)

Frequency	Receiver	Turntable	Rx Antenna		Substituted			Absolute Level (dBm)	FCC Part 27	
(MHz)	Reading (dBμV)	Angle Degree	Height (m)	Polar (H/V)	SG Level (dBm)	Cable Loss (dB)	Antenna Gain (dB)		Limit (dBm)	Margin (dB)
Band 4: 20 MHz, Middle Channel										
149.15	33.98	33	1.1	H	-63.0	0.26	0	-63.26	-13	50.26
149.15	34.12	278	1.6	V	-62.9	0.26	0	-63.16	-13	50.16
3465.00	35.23	212	1.9	H	-52.1	2.23	10.70	-43.63	-13	30.63
3465.00	36.17	107	2.4	V	-51.2	2.23	10.70	-42.73	-13	29.73
Band 7: 20 MHz, Middle Channel										
149.15	32.78	351	1.0	H	-64.2	0.26	0	-64.46	-25	39.46
149.15	33.11	67	1.5	V	-63.9	0.26	0	-64.16	-25	39.16
5070.00	43.78	281	1.6	H	-45.9	2.22	11.60	-36.52	-25	11.52
5070.00	44.29	224	1.8	V	-44.8	2.22	11.60	-35.42	-25	10.42
Band 17: 20 MHz, Middle Channel										
149.15	33.21	293	2.3	H	-63.8	0.26	0	-64.06	-13	51.06
149.15	34.14	159	1.9	V	-62.9	0.26	0	-63.16	-13	50.16
1420.00	38.25	350	2.0	H	-62.4	0.88	9.00	-54.28	-13	41.28
1420.00	39.33	44	1.7	V	-62.1	0.88	9.00	-53.98	-13	40.98

Note:

- 1) Absolute Level = SG Level - Cable loss + Antenna Gain
- 2) Margin = Limit- Absolute Level

FCC §27.53 - BAND EDGES

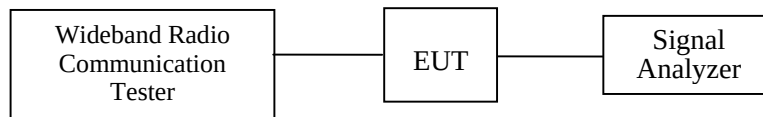
Applicable Standards

According to FCC §27.53, 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.

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, RBW set to 1% approximately of bandwidth.



Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESR	1316.3003K03-101746-zn	2014-06-13	2015-06-13

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

Test Data

Environmental Conditions

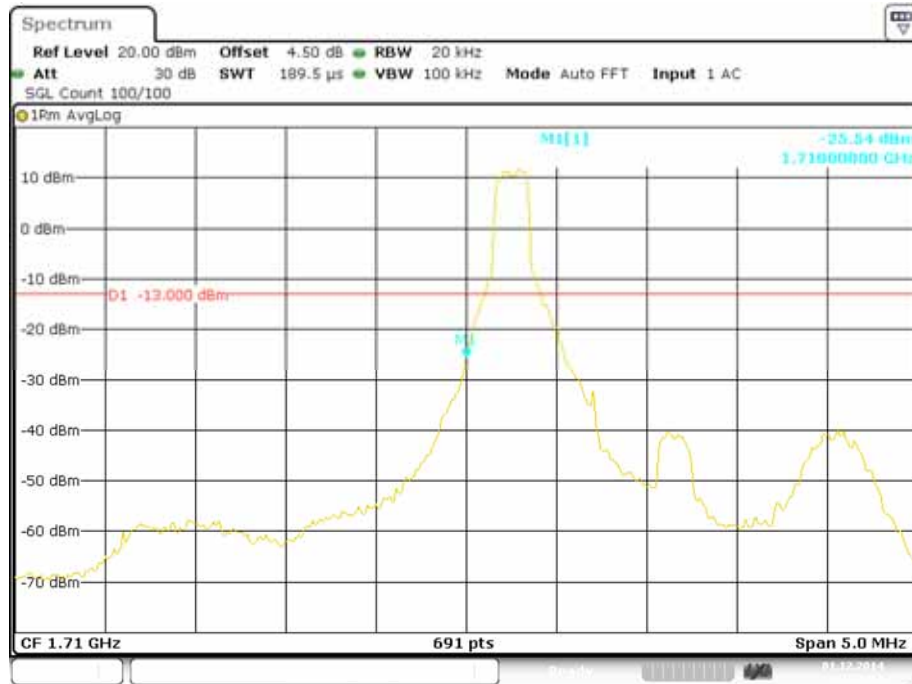
Temperature:	20 °C
Relative Humidity:	58 %
ATM Pressure:	101.0 kPa

The testing was performed by William Li on 2014-12-01.

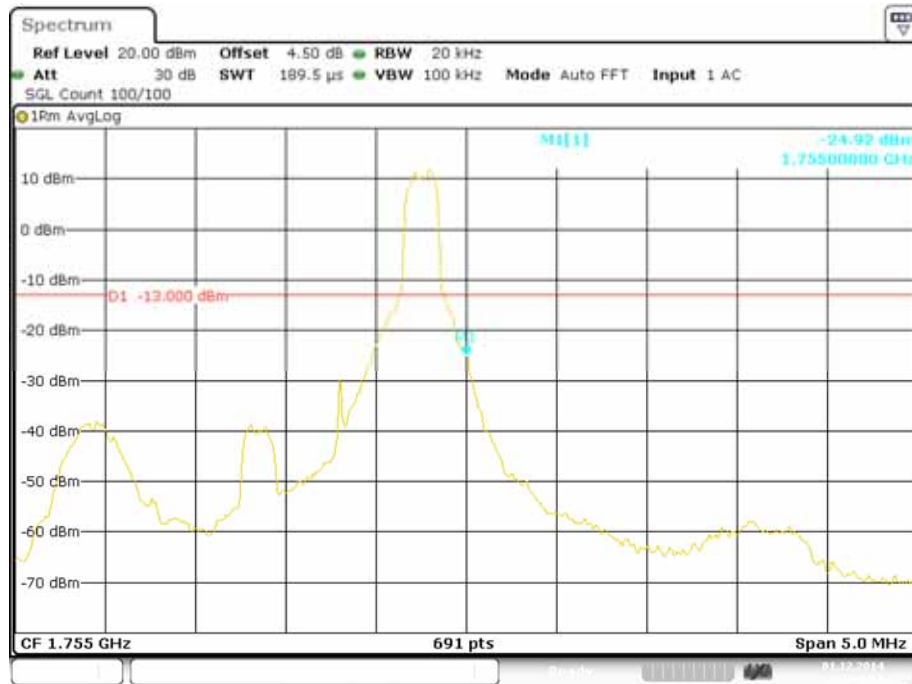
Band 4:

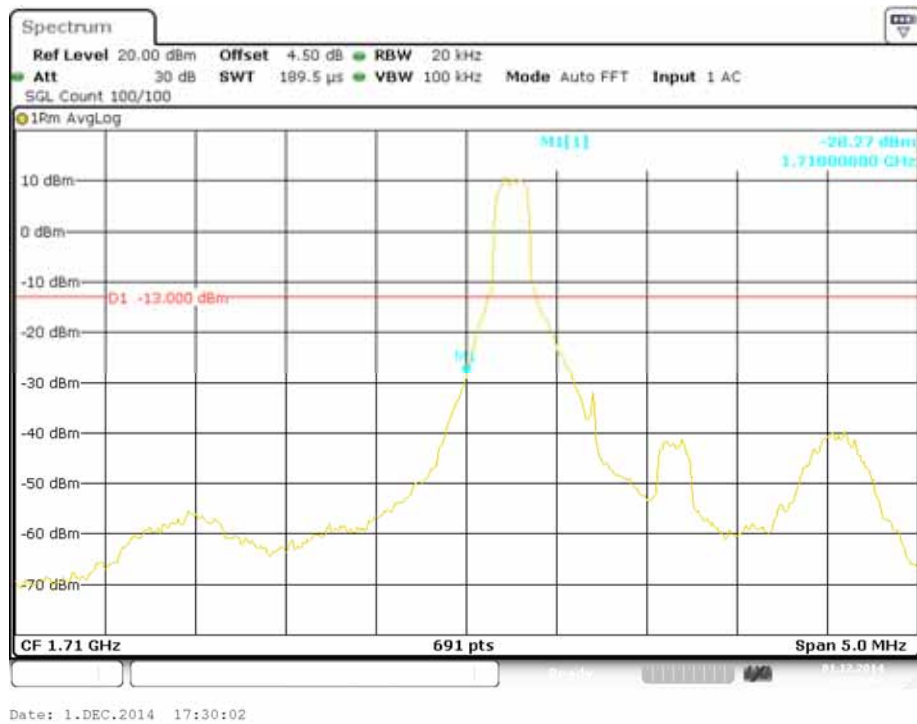
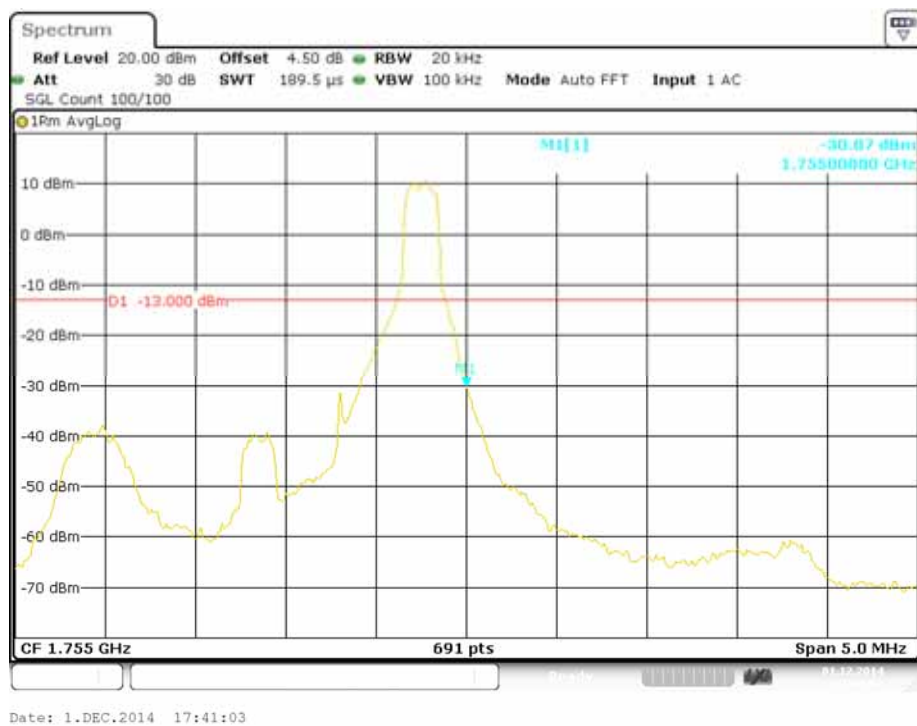
Bandwidth (MHz)	RB	Modulation	Left Band Edge (dBm)	Right Band Edge (dBm)	Limit (dBm)	Result
1.4 MHz	1RB	QPSK	-25.54	-24.92	≤ -13	PASS
		16QAM	-28.27	-30.07	≤ -13	PASS
	FULL RB	QPSK	-34.96	-28.68	≤ -13	PASS
		16QAM	-35.36	-32.37	≤ -13	PASS
3.0 MHz	1RB	QPSK	-19.94	-24.19	≤ -13	PASS
		16QAM	-23.68	-27.17	≤ -13	PASS
	FULL RB	QPSK	-35.91	-31.44	≤ -13	PASS
		16QAM	-36.40	-33.06	≤ -13	PASS
5.0 MHz	1RB	QPSK	-25.75	-31.67	≤ -13	PASS
		16QAM	-29.75	-31.75	≤ -13	PASS
	FULL RB	QPSK	-35.55	-32.68	≤ -13	PASS
		16QAM	-37.68	-35.05	≤ -13	PASS
10.0 MHz	1RB	QPSK	-39.46	-38.65	≤ -13	PASS
		16QAM	-38.77	-38.43	≤ -13	PASS
	FULL RB	QPSK	-32.93	-33.24	≤ -13	PASS
		16QAM	-35.64	-34.91	≤ -13	PASS
15.0 MHz	1RB	QPSK	-40.16	-40.81	≤ -13	PASS
		16QAM	-42.18	-43.74	≤ -13	PASS
	FULL RB	QPSK	-25.75	-30.35	≤ -13	PASS
		16QAM	-29.32	-32.99	≤ -13	PASS
20.0 MHz	1RB	QPSK	-46.89	-45.32	≤ -13	PASS
		16QAM	-48.89	-47.81	≤ -13	PASS
	FULL RB	QPSK	-30.31	-36.89	≤ -13	PASS
		16QAM	-34.32	-37.55	≤ -13	PASS

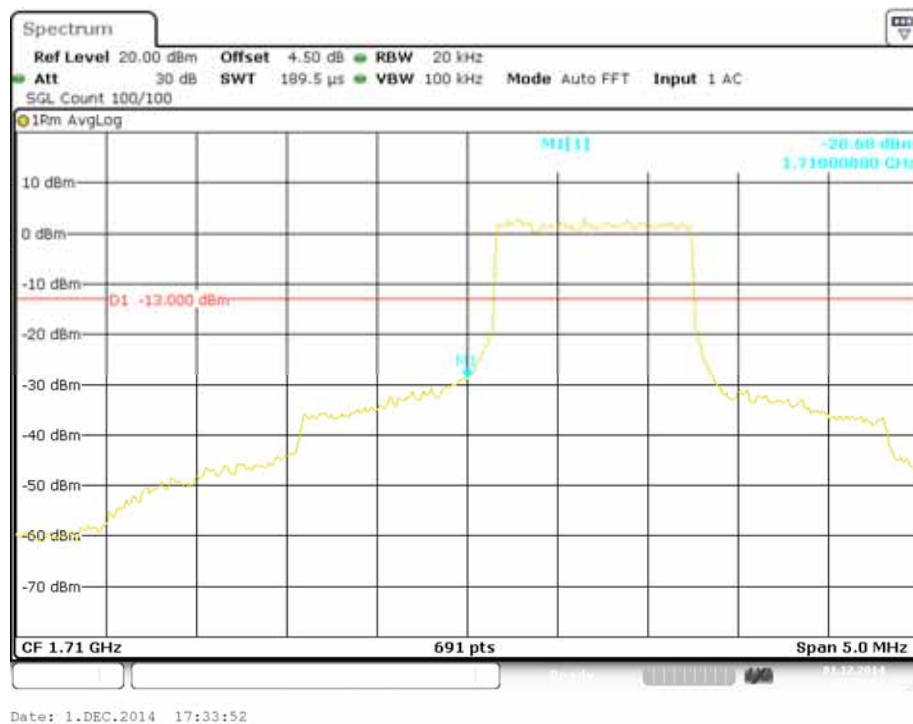
QPSK (1.4 MHz, 1RB) - Left Band Edge

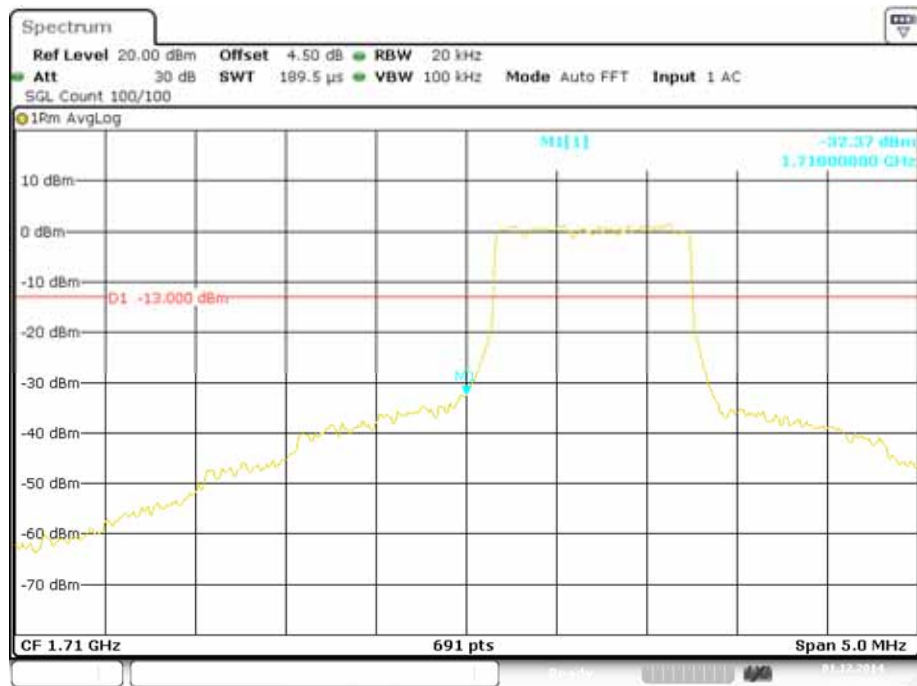


QPSK (1.4 MHz, 1RB) - Right Band Edge

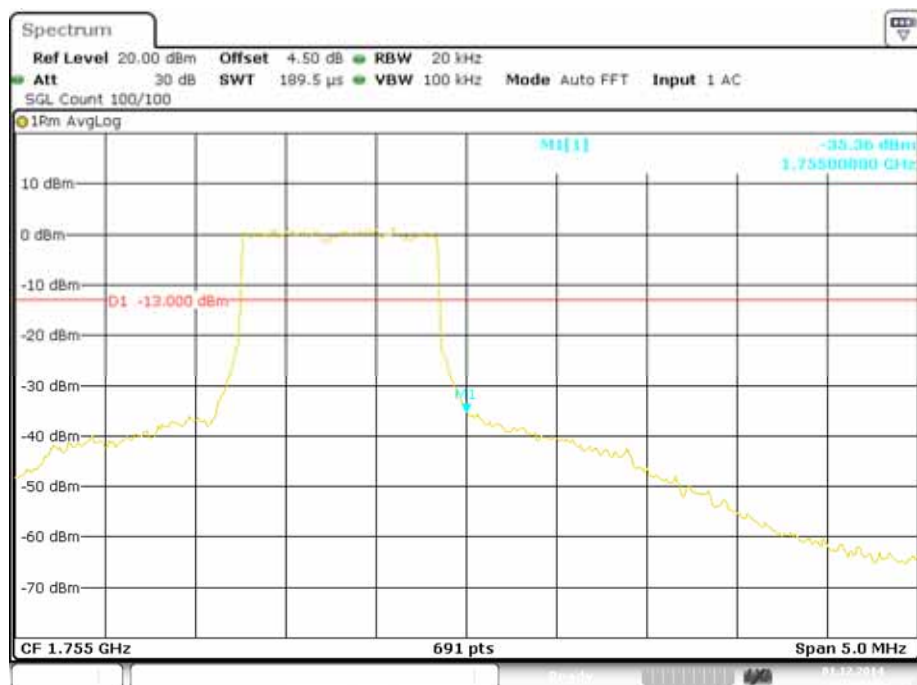


16-QAM (1.4 MHz, 1RB) - Left Band Edge**16-QAM (1.4 MHz, 1RB) - Right Band Edge**

QPSK (1.4 MHz, FULL RB) - Left Band Edge**QPSK (1.4 MHz, FULL RB) - Right Band Edge**

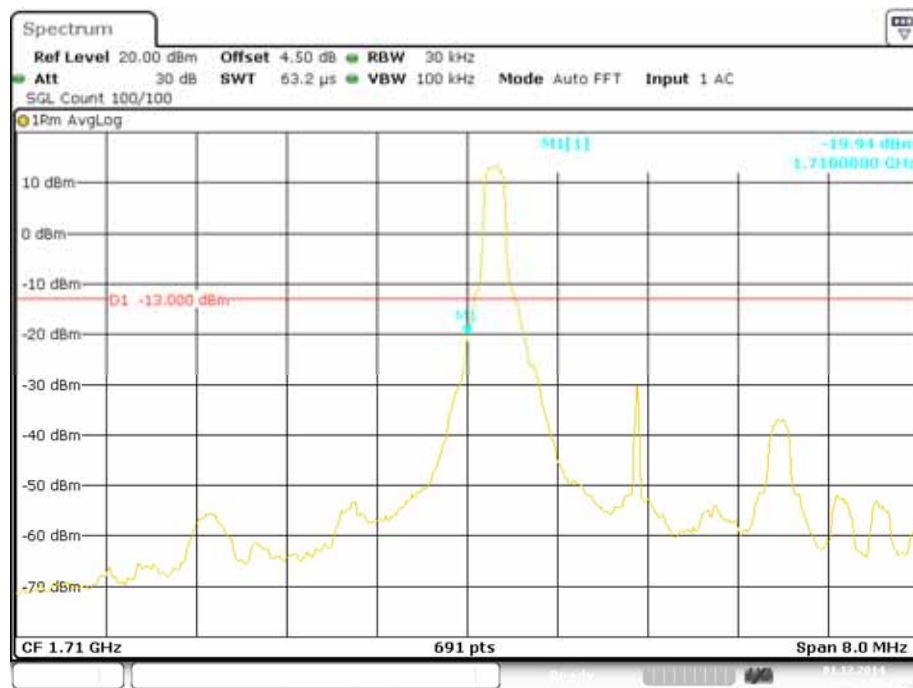
16-QAM (1.4 MHz, FULL RB) - Left Band Edge

Date: 1.DEC.2014 17:31:24

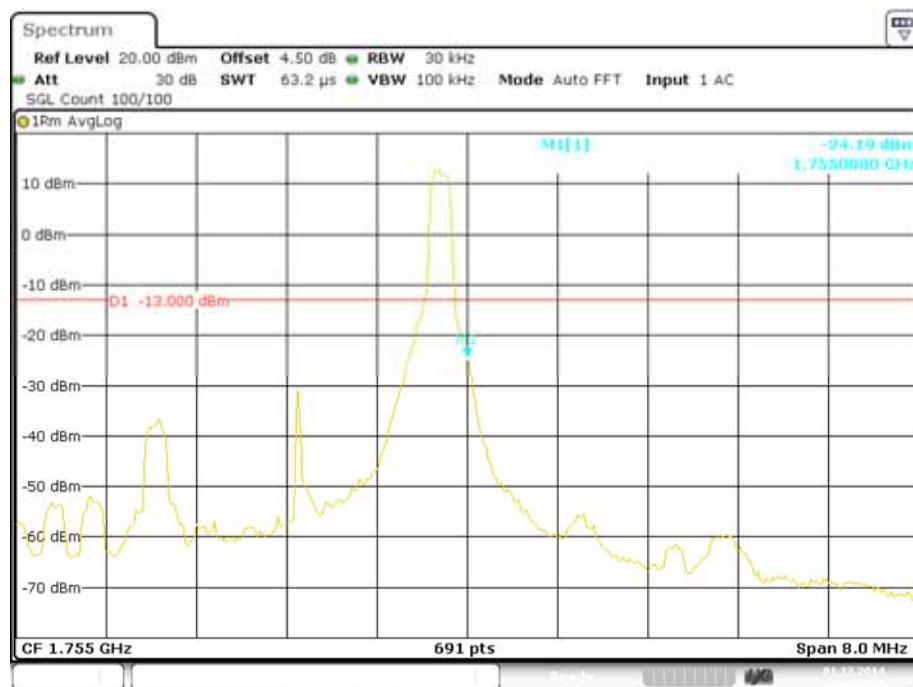
16-QAM (1.4 MHz, FULL RB) - Right Band Edge

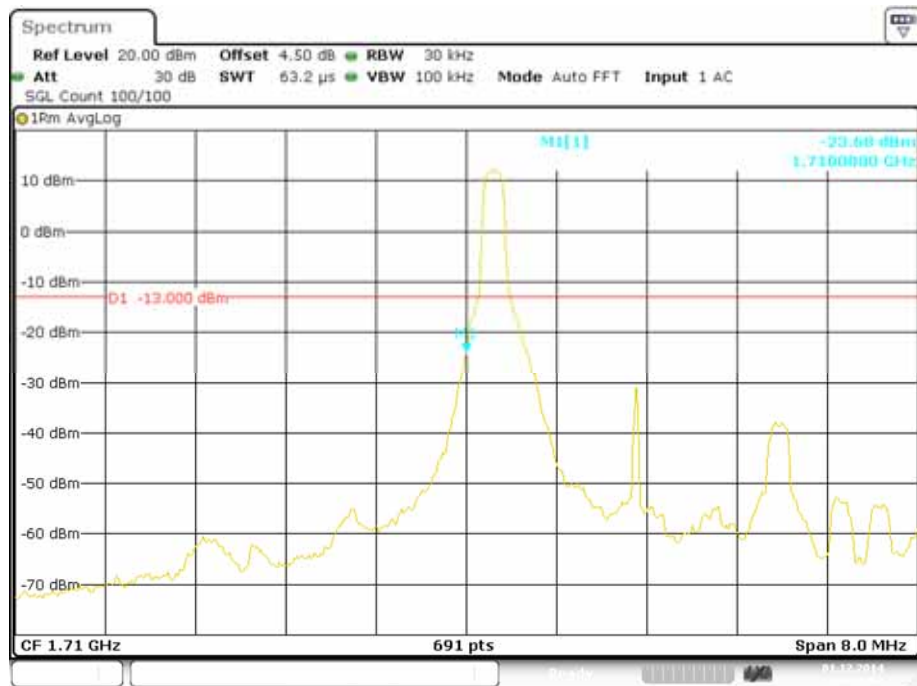
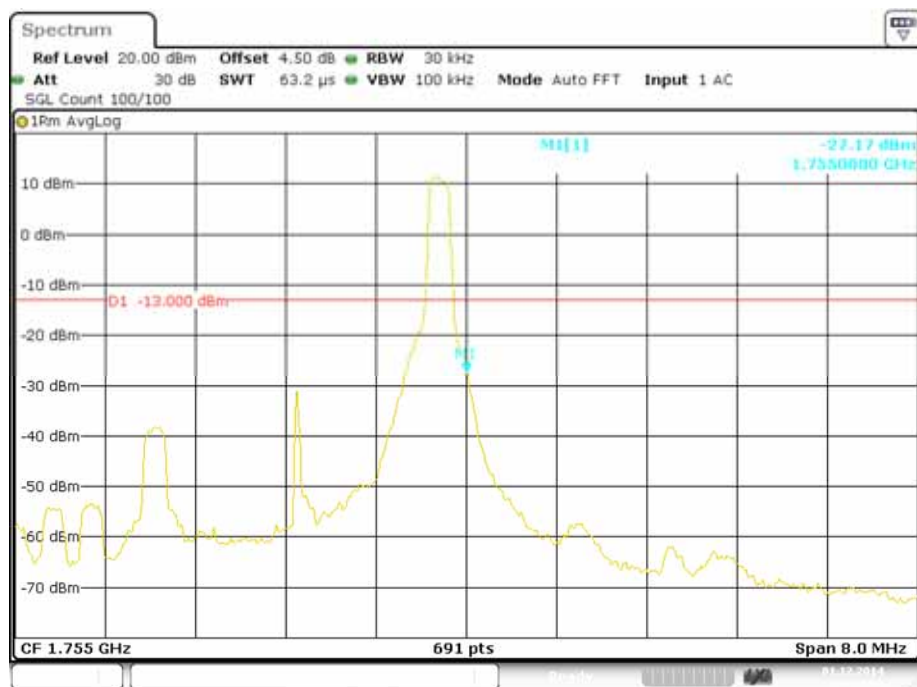
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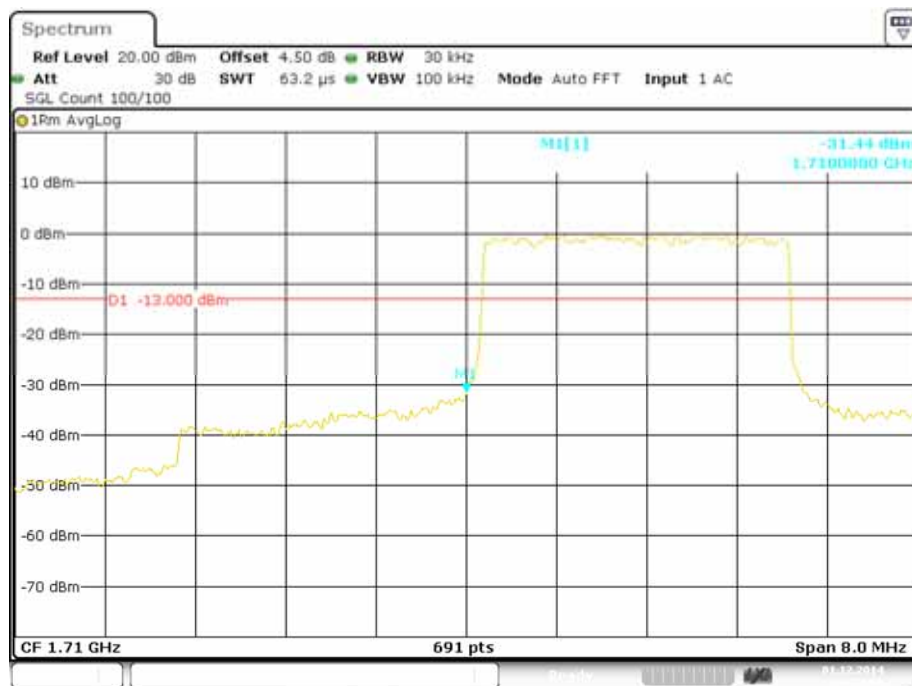
QPSK (3.0 MHz, 1RB) - Left Band Edge



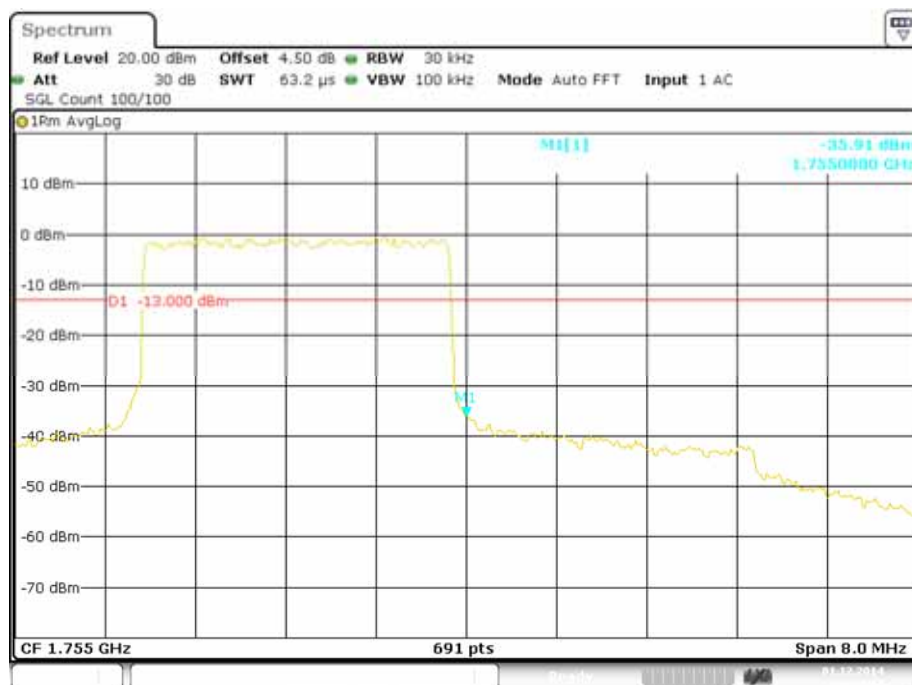
QPSK (3.0 MHz, 1RB) - Right Band Edge



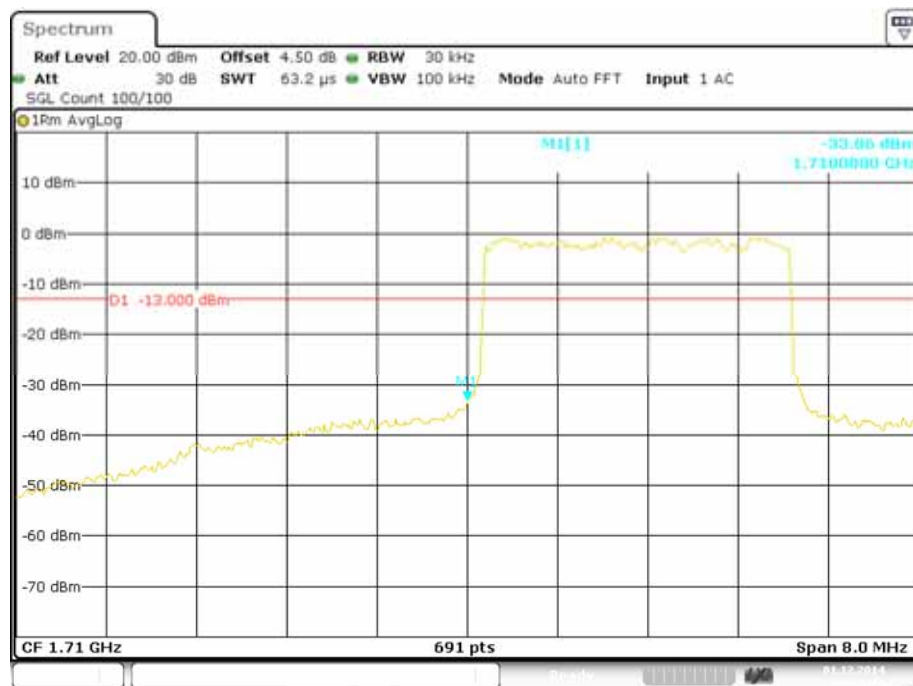
16-QAM (3.0 MHz, 1RB) - Left Band Edge**16-QAM (3.0 MHz, 1RB) - Right Band Edge**

QPSK (3.0 MHz, FULL RB) - Left Band Edge

Date: 1.DEC.2014 19:17:09

QPSK (3.0 MHz, FULL RB) - Right Band Edge

Date: 1.DEC.2014 19:12:14

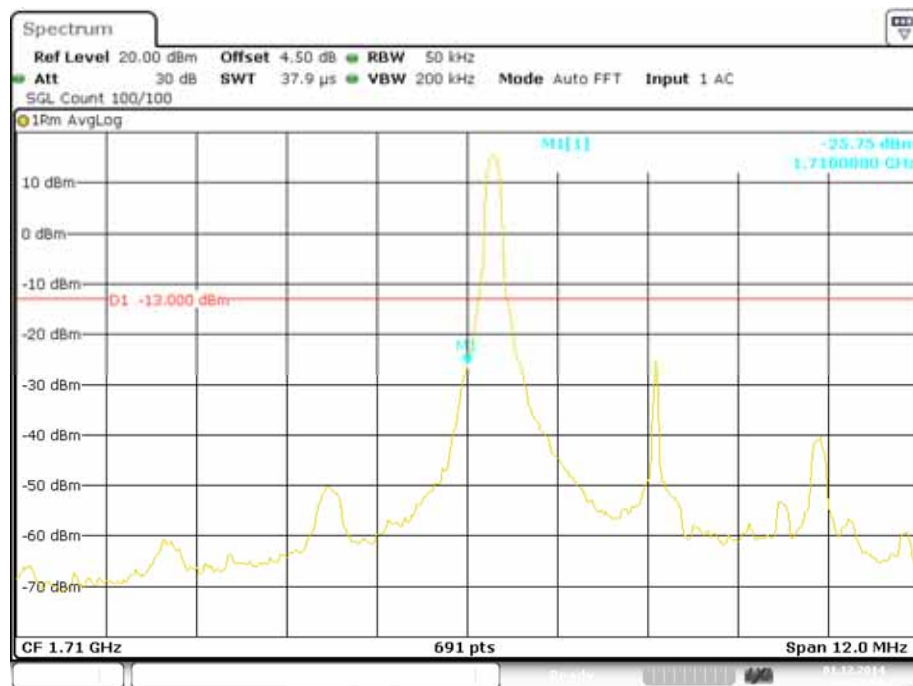
16-QAM (3.0 MHz, FULL RB) - Left Band Edge

Date: 1.DEC.2014 19:16:42

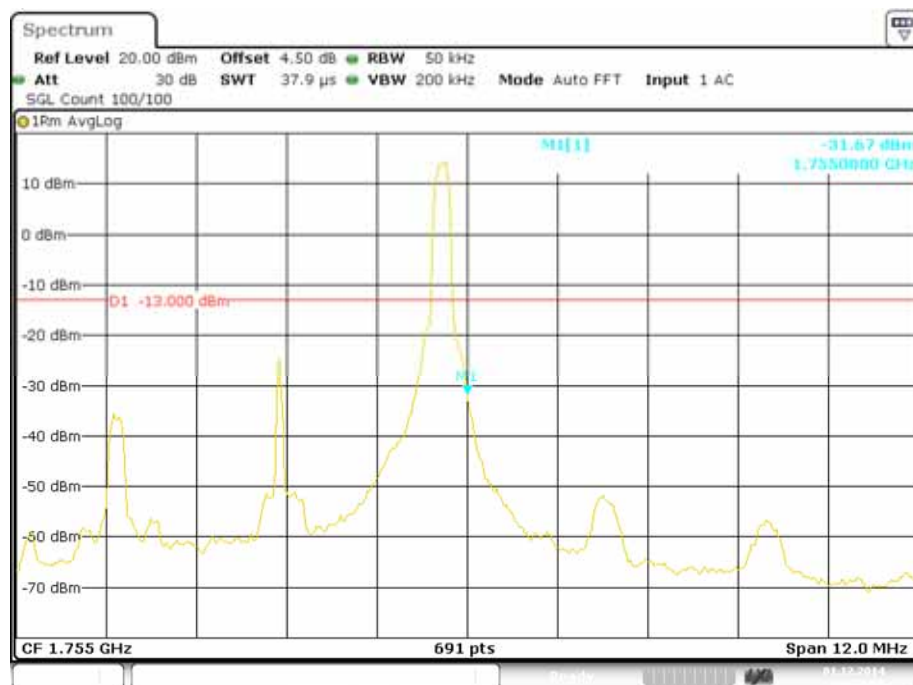
16-QAM (3.0 MHz, FULL RB) - Right Band Edge

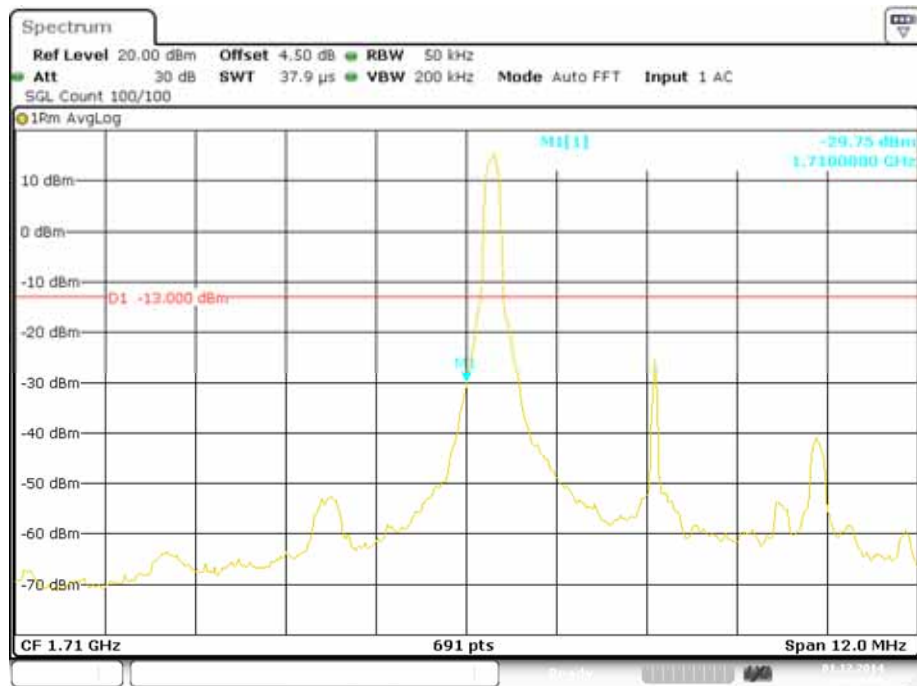
Date: 1.DEC.2014 19:13:12

QPSK (5.0 MHz, 1RB) - Left Band Edge

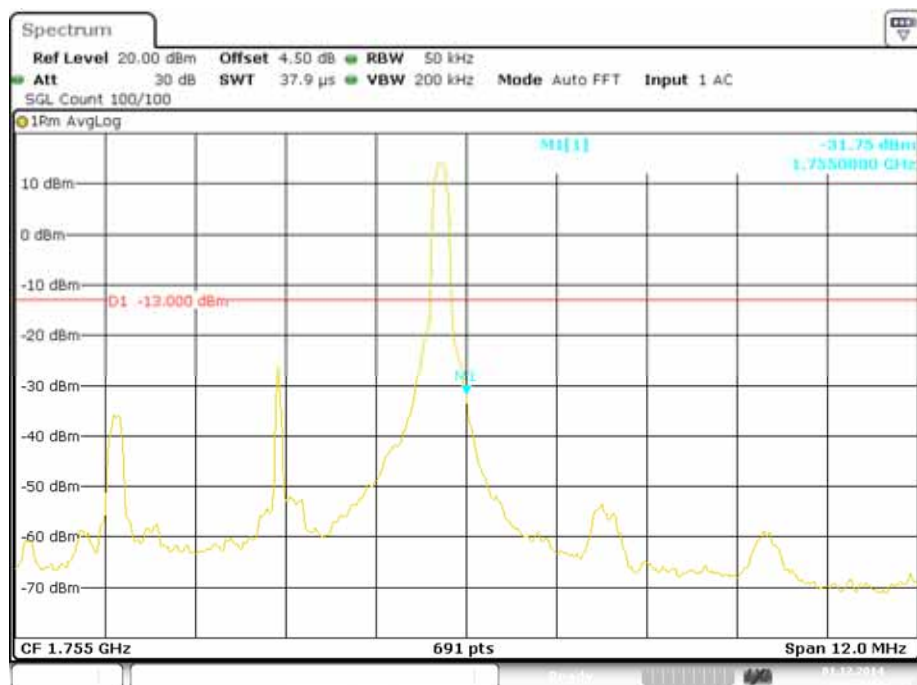


QPSK (5.0 MHz, 1RB) - Right Band Edge

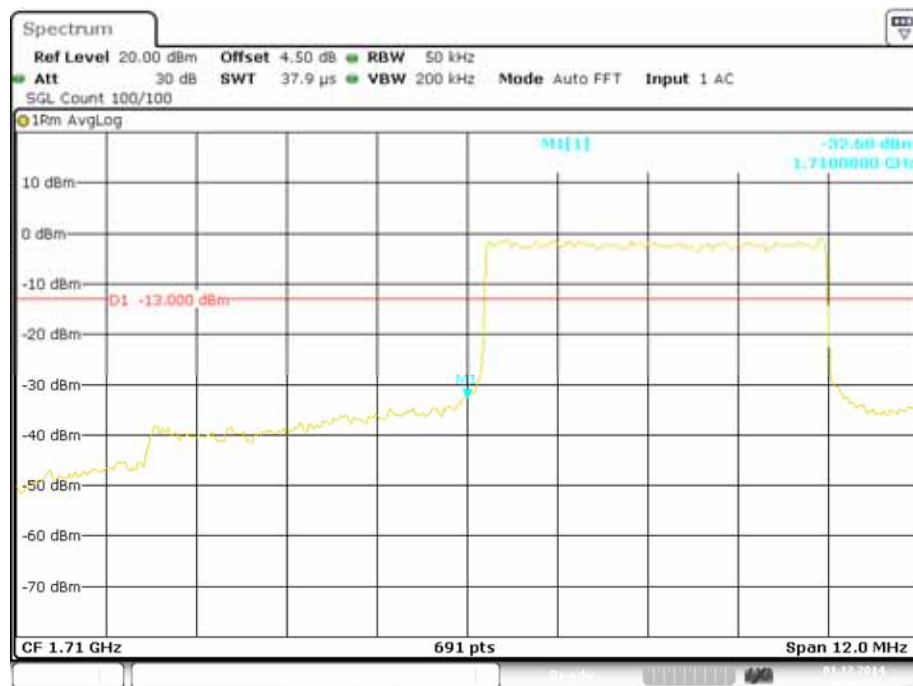


16-QAM (5.0 MHz, 1RB) - Left Band Edge

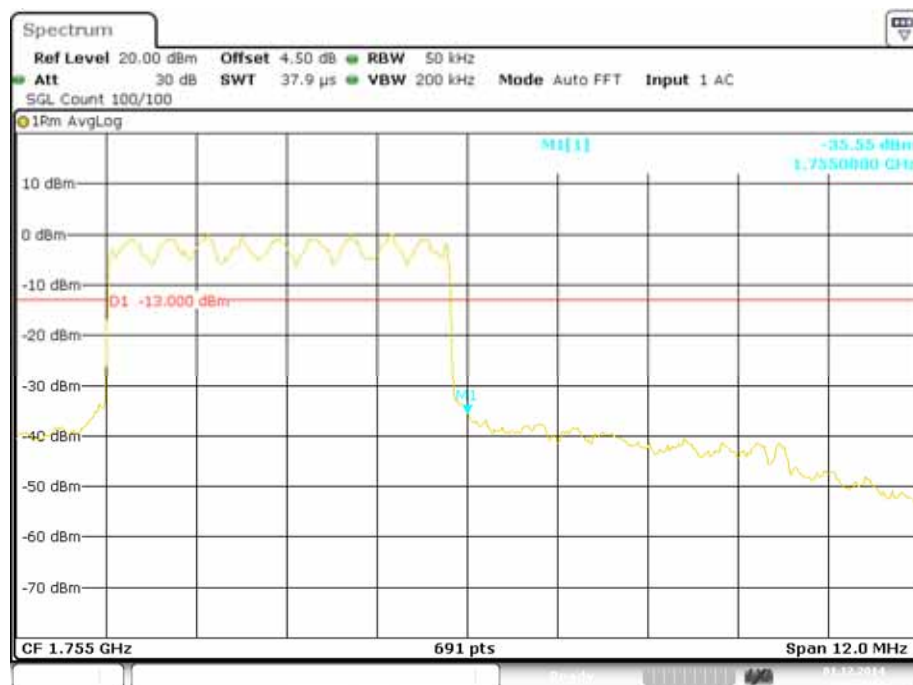
Date: 1.DEC.2014 19:19:36

16-QAM (5.0 MHz, 1RB) - Right Band Edge

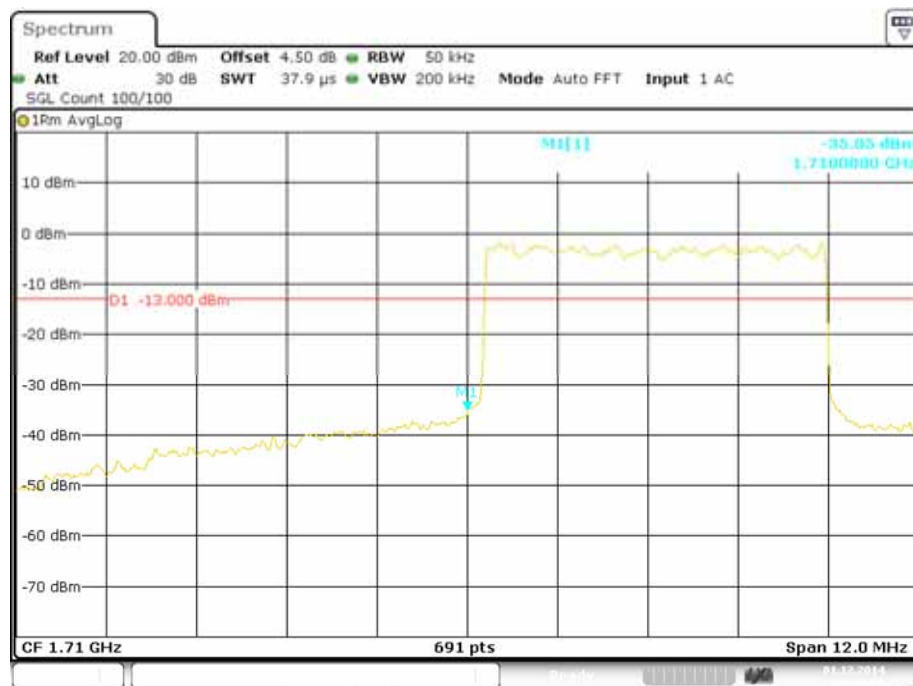
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QPSK (5.0 MHz, FULL RB) - Left Band Edge

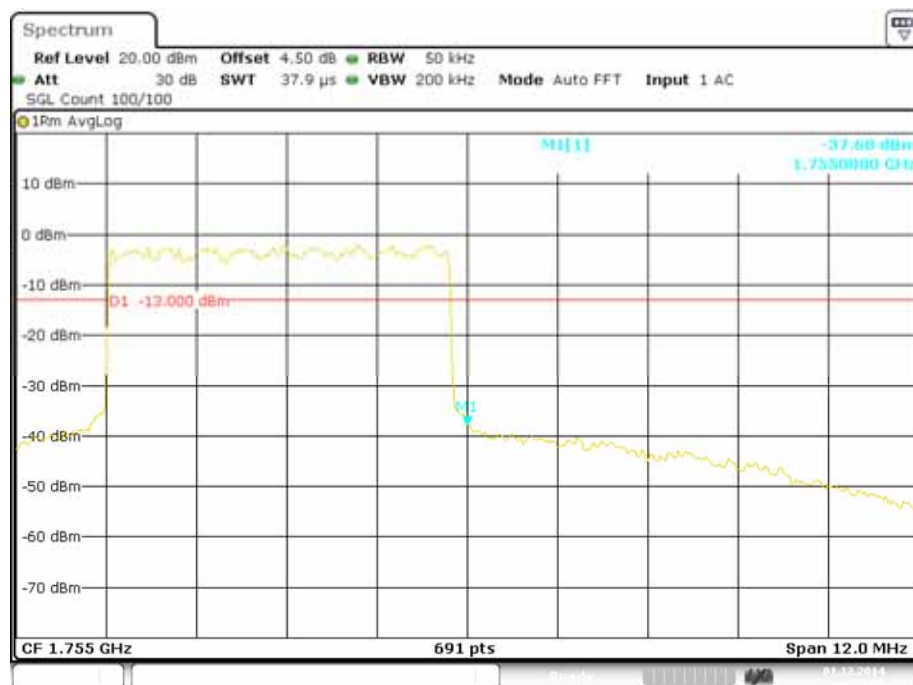
Date: 1.DEC.2014 19:18:32

QPSK (5.0 MHz, FULL RB) - Right Band Edge

Date: 1.DEC.2014 19:22:41

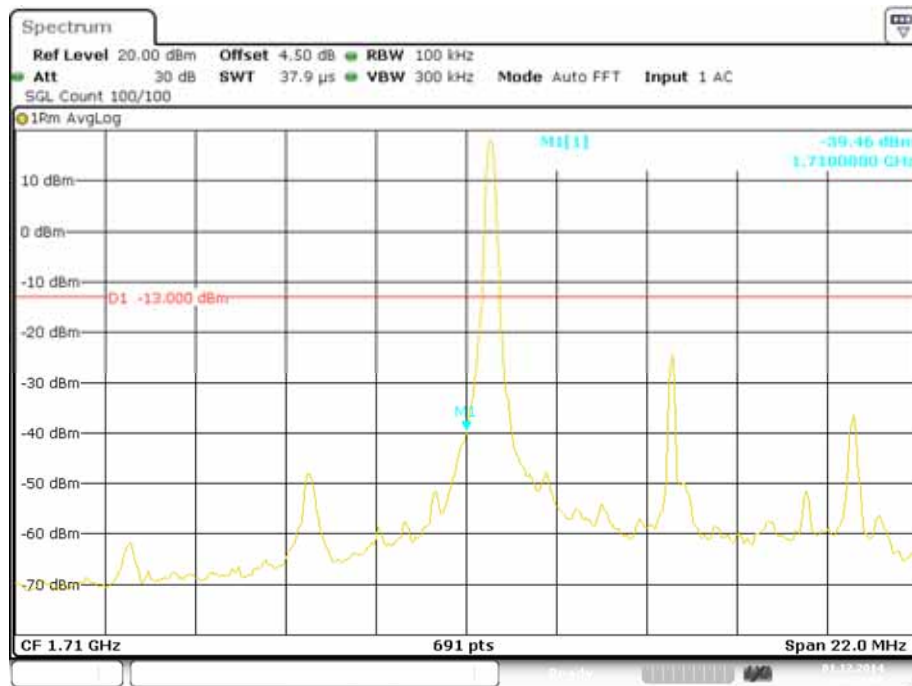
16-QAM (5.0 MHz, FULL RB) - Left Band Edge

Date: 1.DEC.2014 19:19:09

16-QAM (5.0 MHz, FULL RB) - Right Band Edge

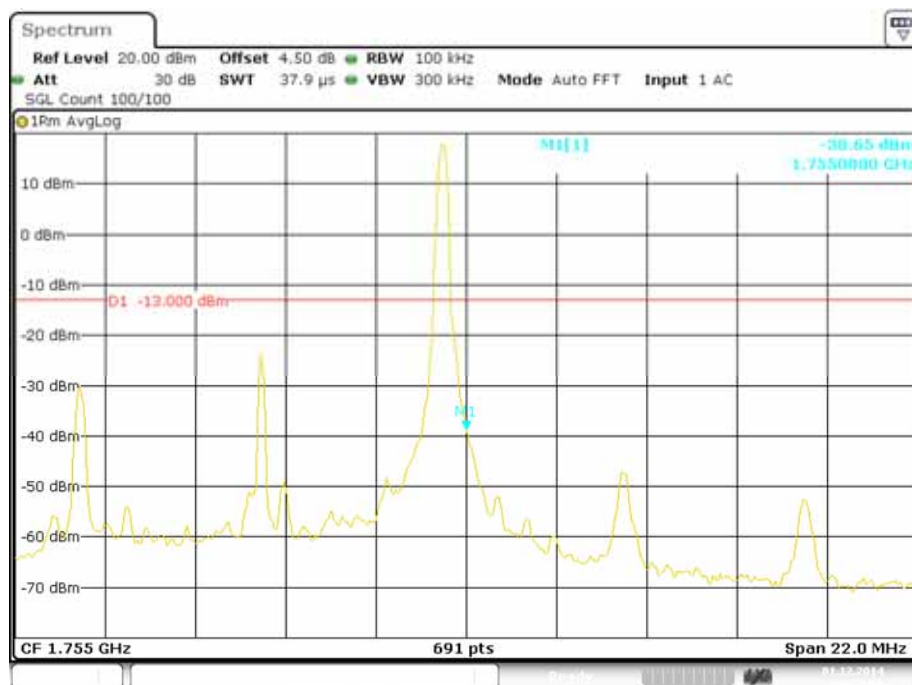
Date: 1.DEC.2014 19:22:09

QPSK (10.0 MHz, 1RB) - Left Band Edge

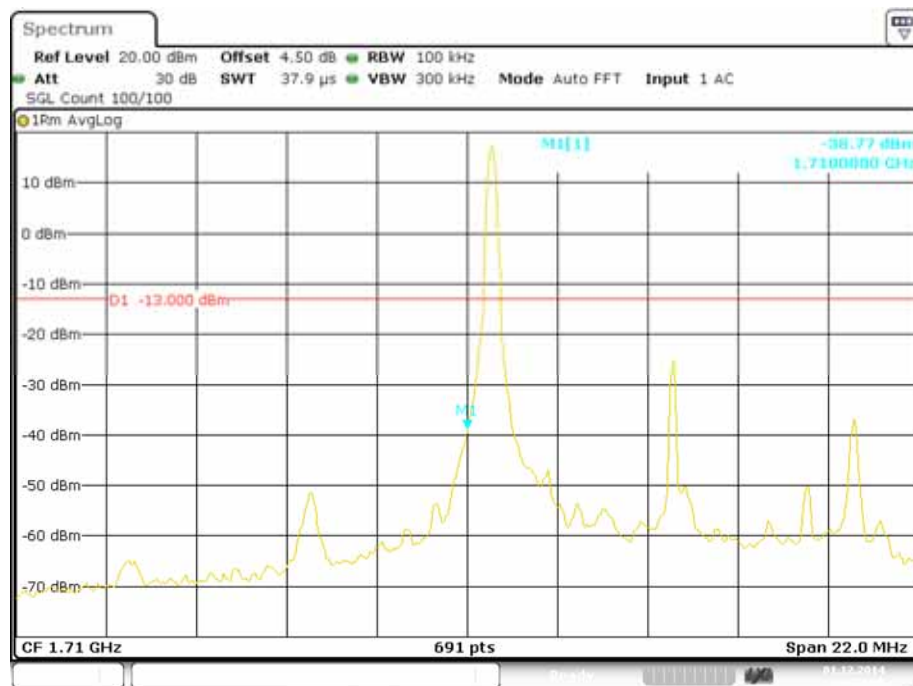


Date: 1.DEC.2014 19:33:07

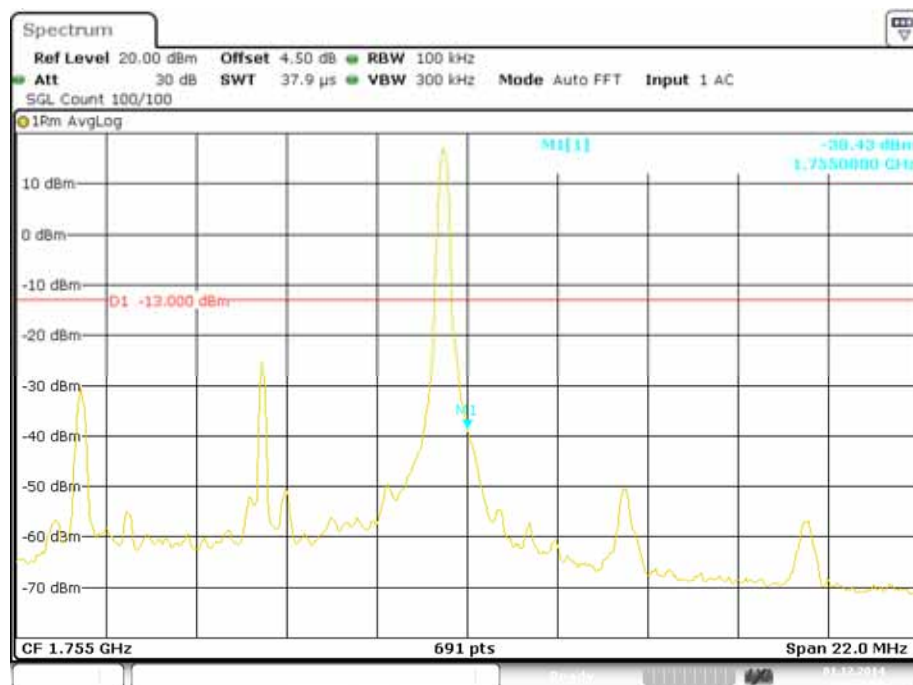
QPSK (10.0 MHz, 1RB) - Right Band Edge



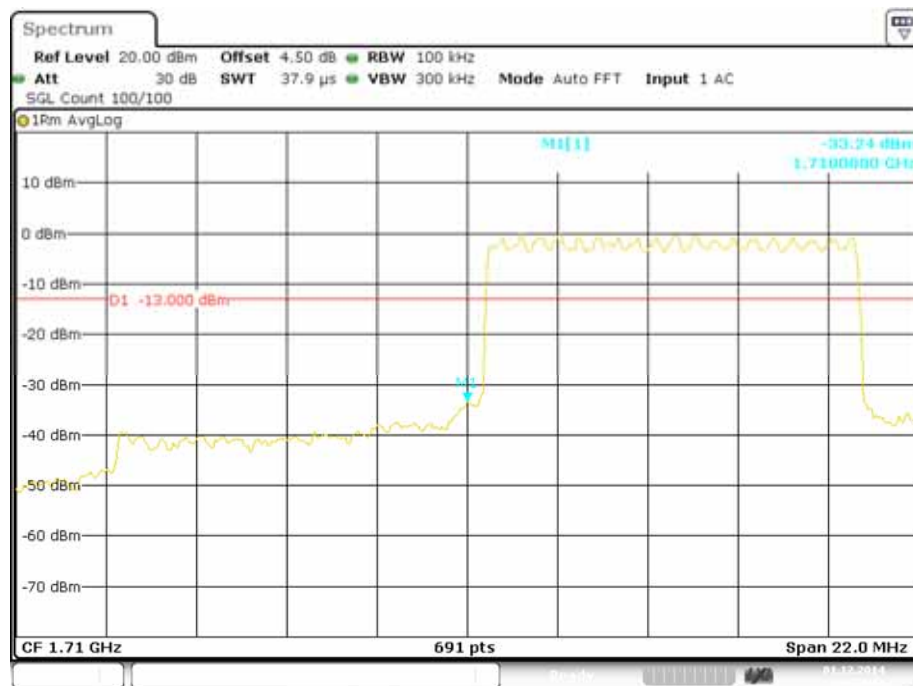
Date: 1.DEC.2014 19:31:50

16-QAM (10.0 MHz, 1RB) - Left Band Edge

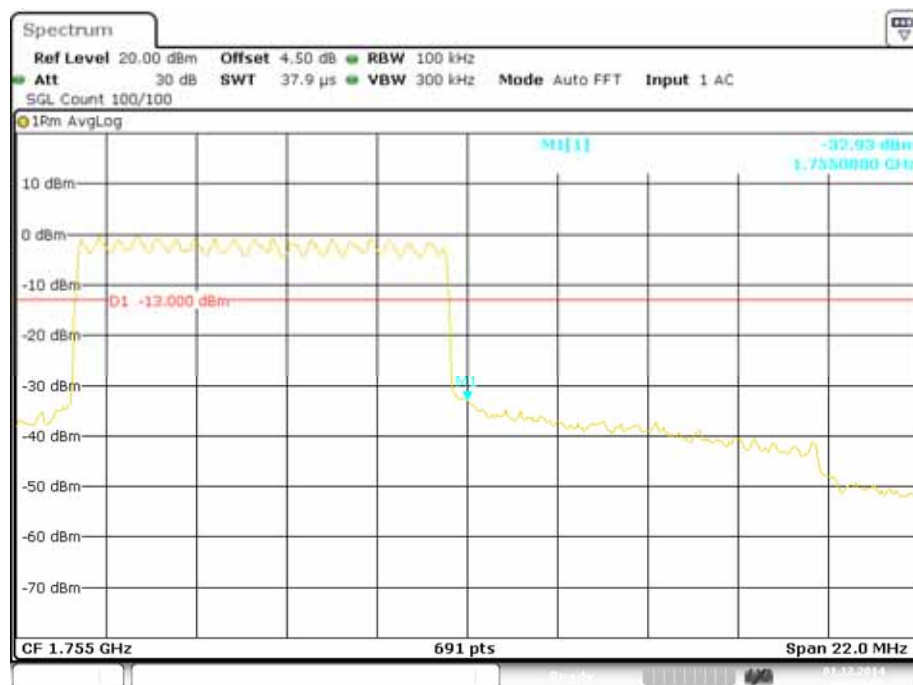
Date: 1.DEC.2014 19:33:35

16-QAM (10.0 MHz, 1RB) - Right Band Edge

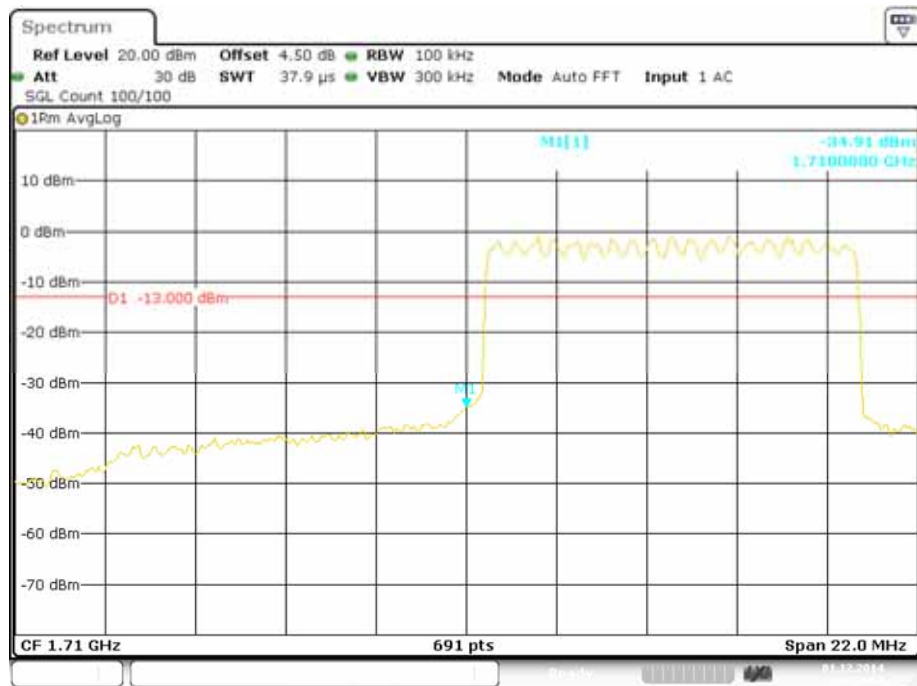
Date: 1.DEC.2014 19:31:09

QPSK (10.0 MHz, FULL RB) - Left Band Edge

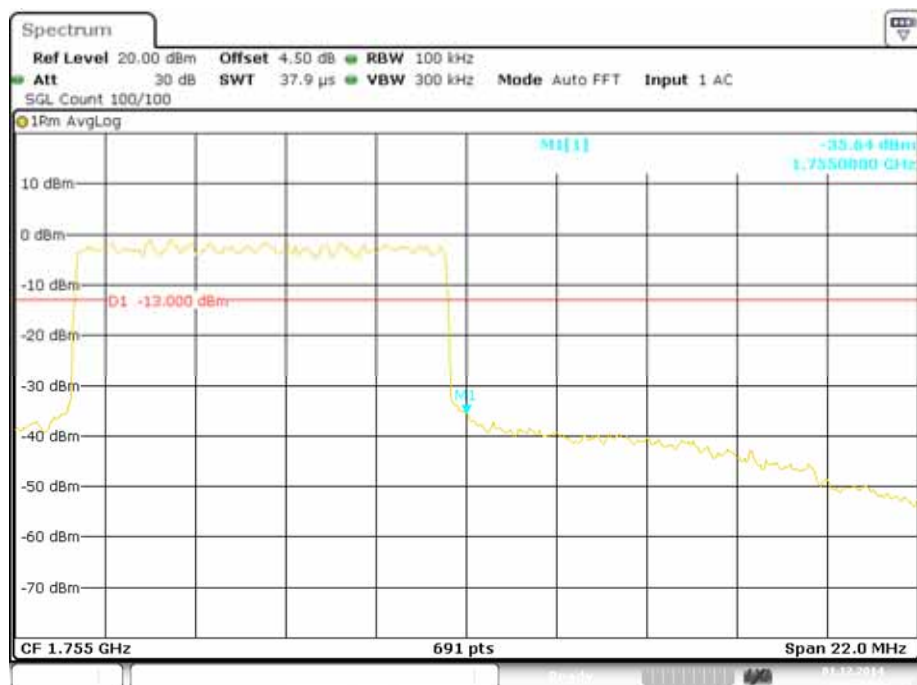
Date: 1.DEC.2014 19:34:42

QPSK (10.0 MHz, FULL RB) - Right Band Edge

Date: 1.DEC.2014 19:30:00

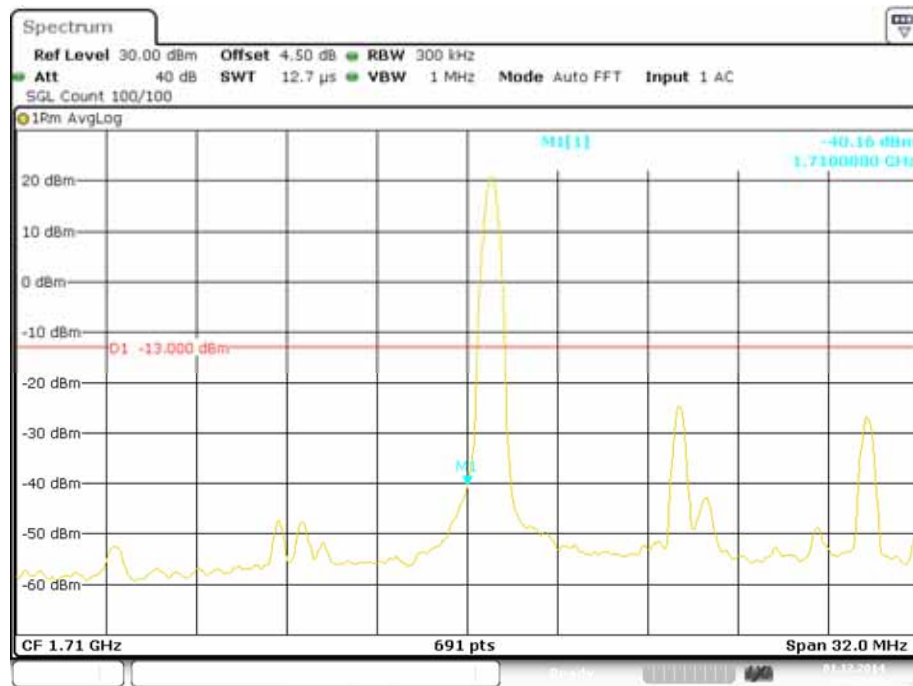
16-QAM (10.0 MHz, FULL RB) - Left Band Edge

Date: 1.DEC.2014 19:34:04

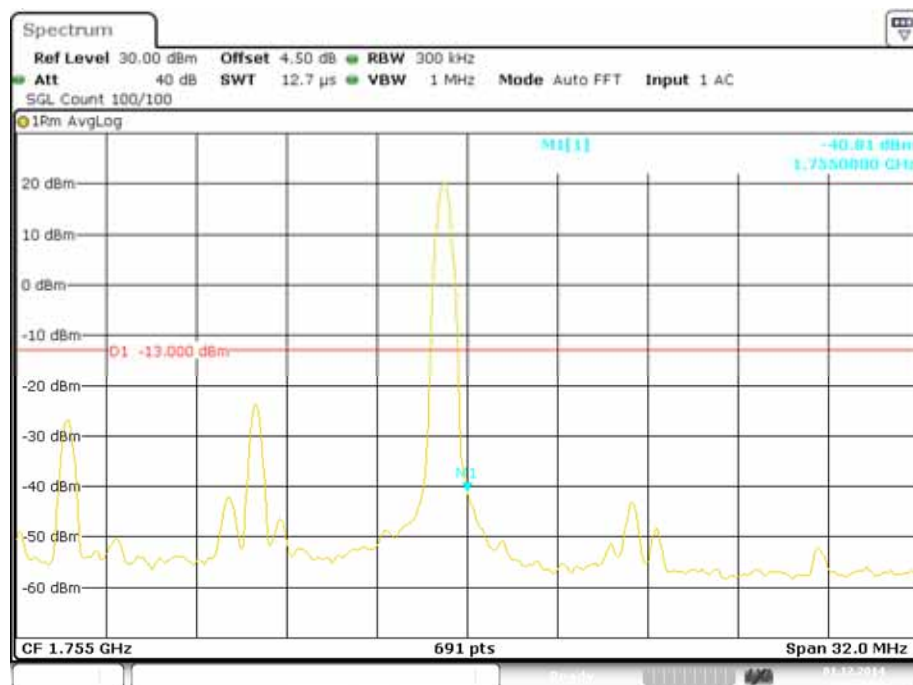
16-QAM (10.0 MHz, FULL RB) - Right Band Edge

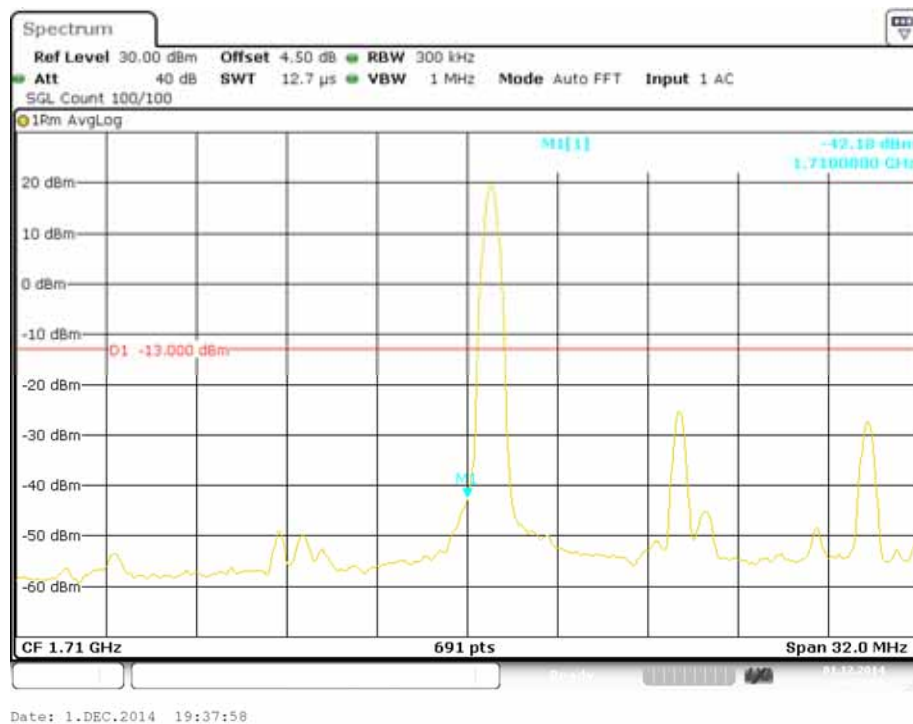
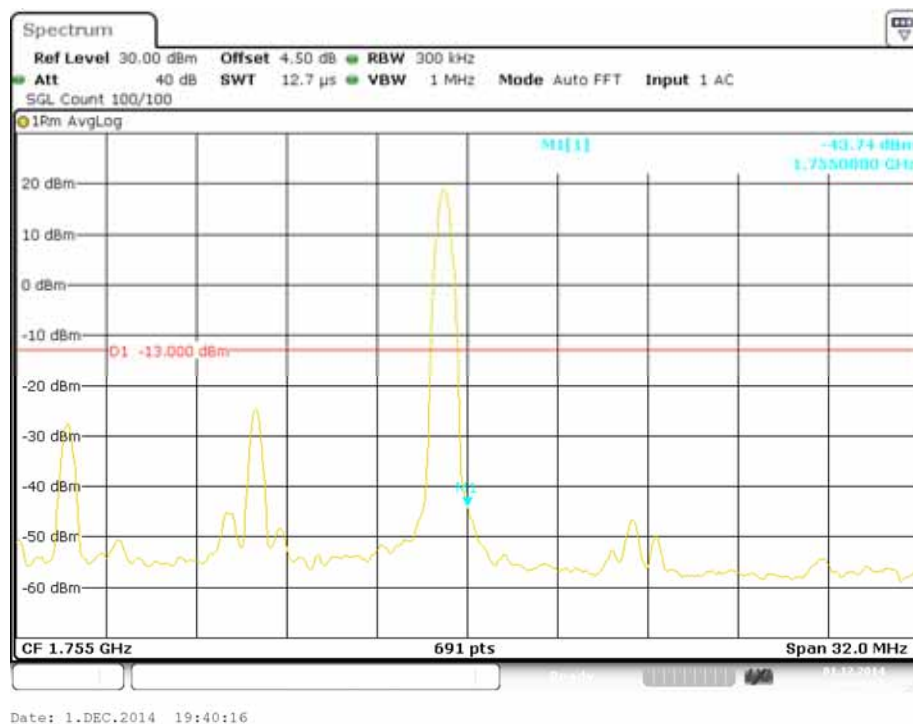
Date: 1.DEC.2014 19:30:38

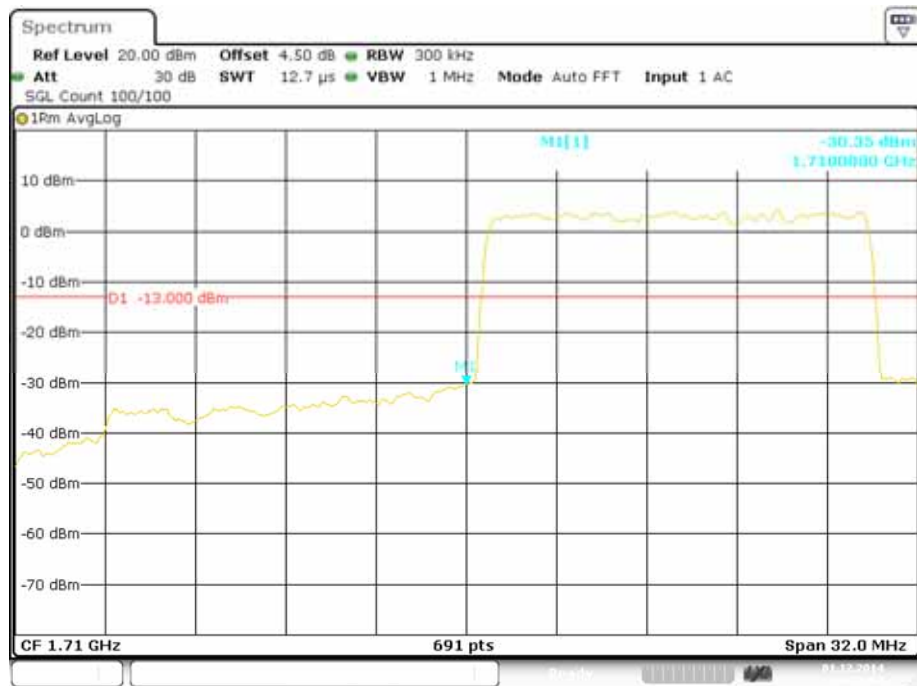
QPSK (15.0 MHz, 1RB) - Left Band Edge



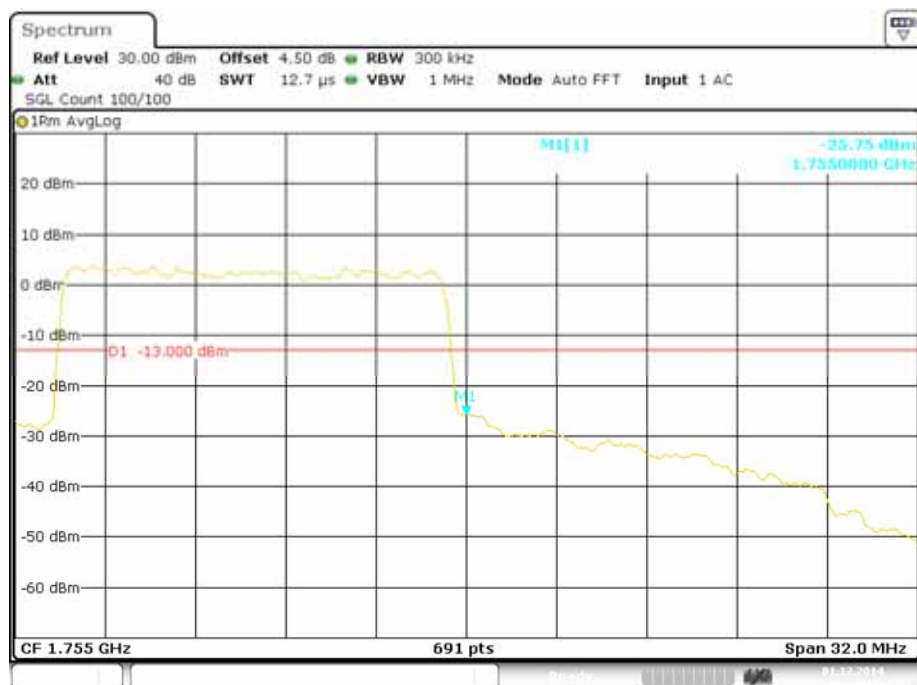
QPSK (15.0 MHz, 1RB) - Right Band Edge



16-QAM (15.0 MHz, 1RB) - Left Band Edge**16-QAM (15.0 MHz, 1RB) - Right Band Edge**

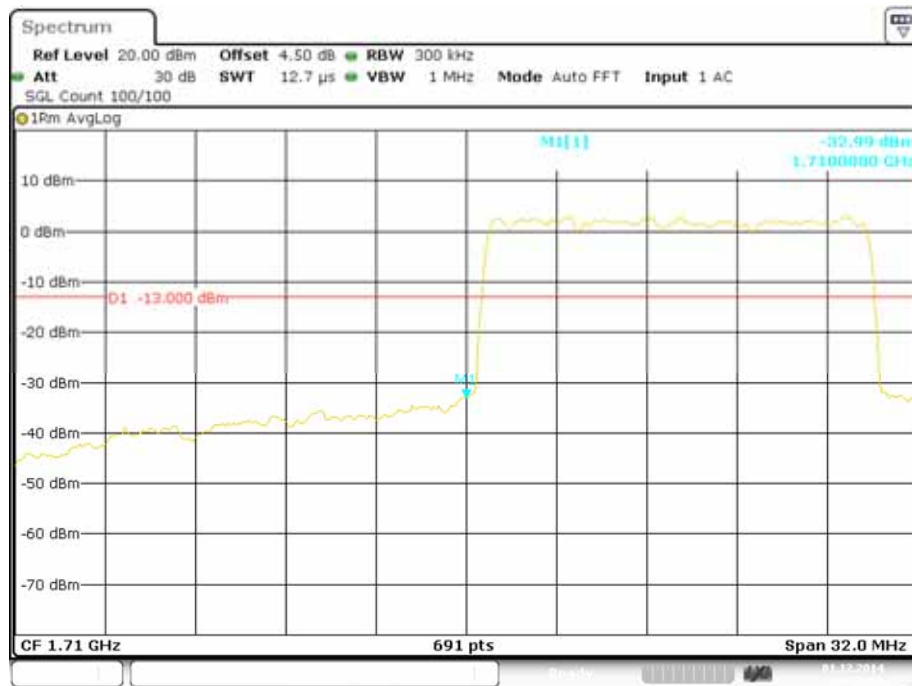
QPSK (15.0 MHz, FULL RB) - Left Band Edge

Date: 1.DEC.2014 19:36:05

QPSK (15.0 MHz, FULL RB) - Right Band Edge

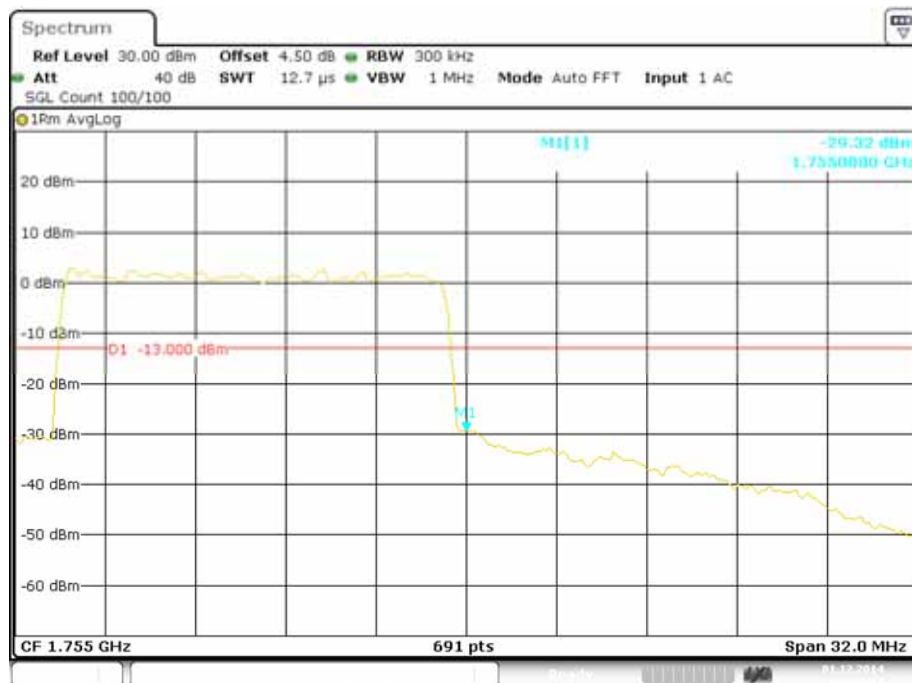
Date: 1.DEC.2014 19:41:49

16-QAM (15.0 MHz, FULL RB) - Left Band Edge



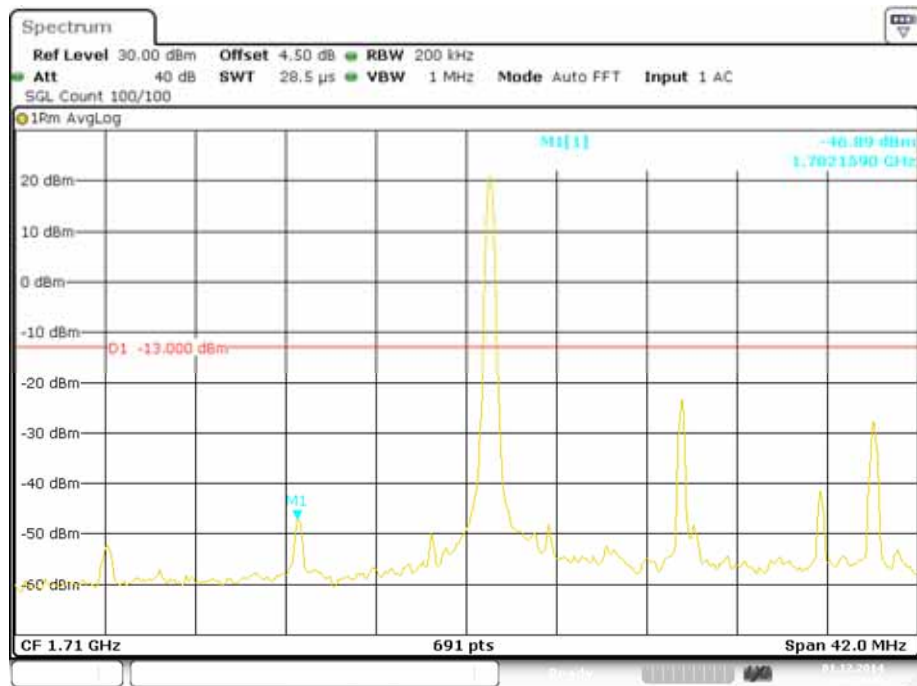
Date: 1.DEC.2014 19:36:56

16-QAM (15.0 MHz, FULL RB) - Right Band Edge

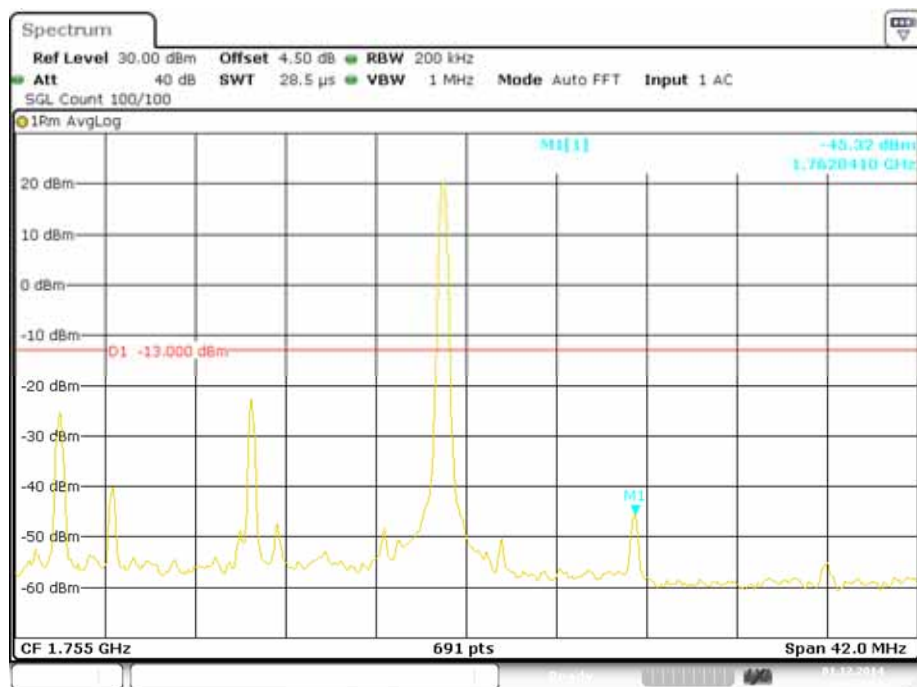


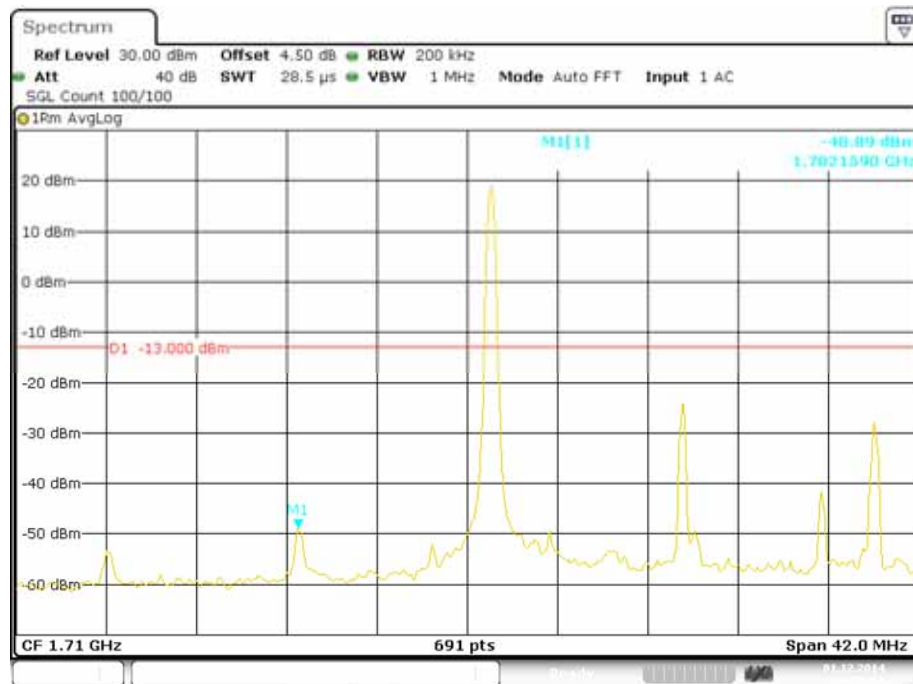
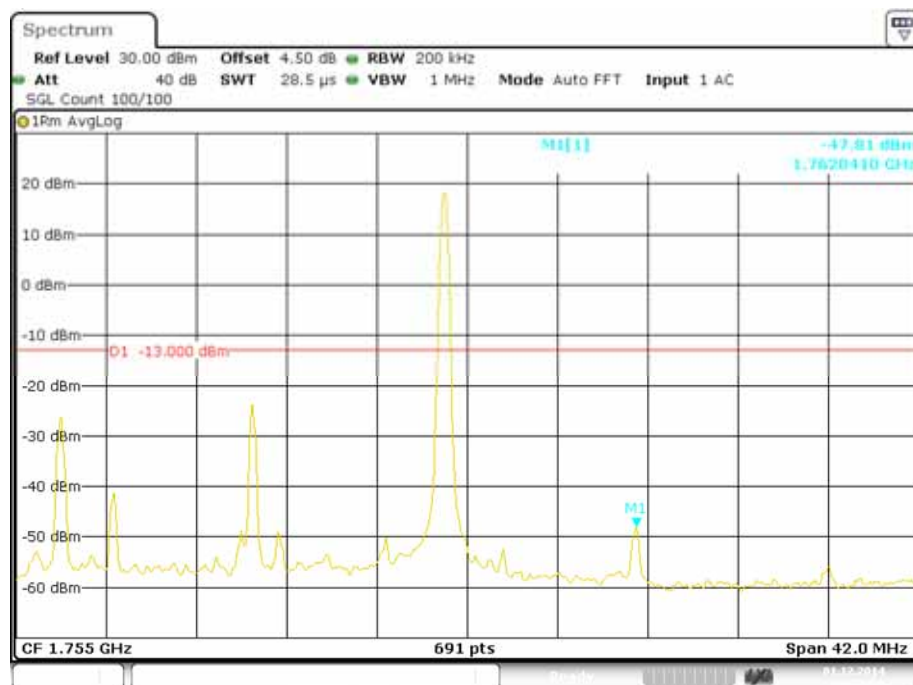
Date: 1.DEC.2014 19:41:14

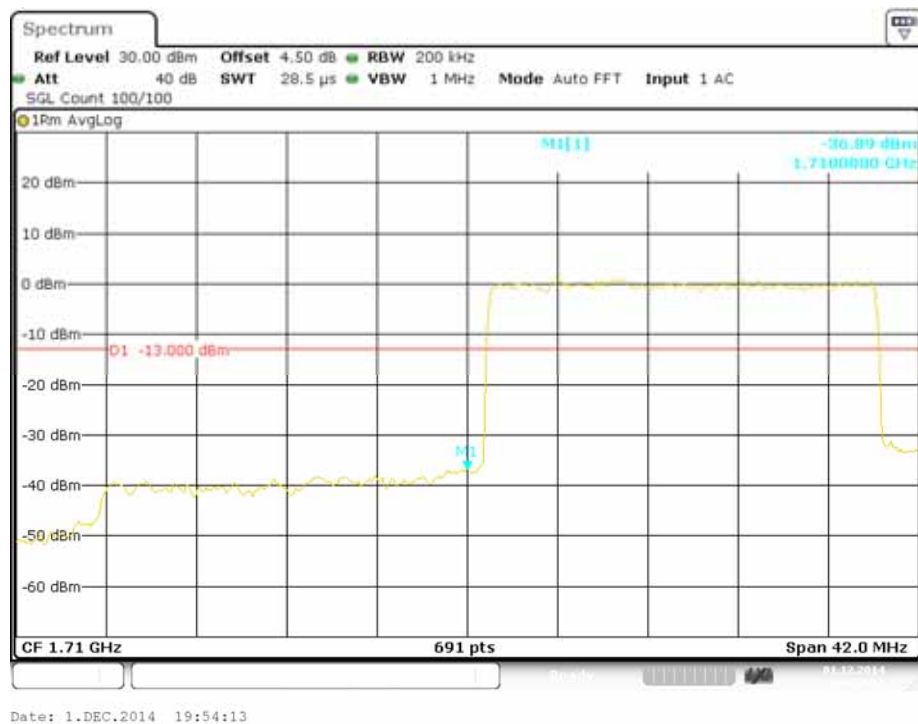
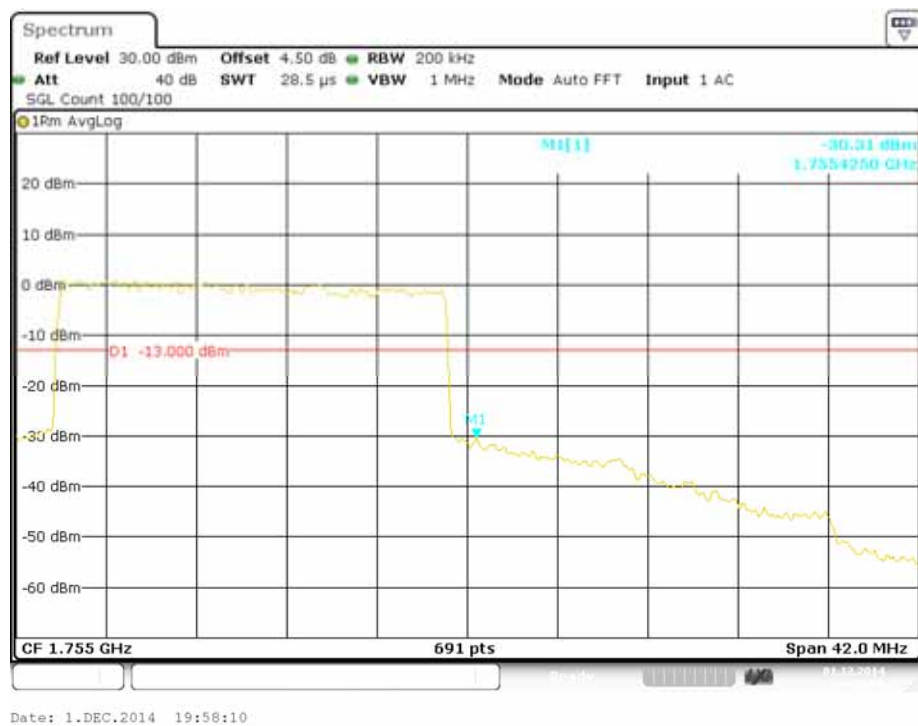
QPSK (20.0 MHz, 1RB) - Left Band Edge

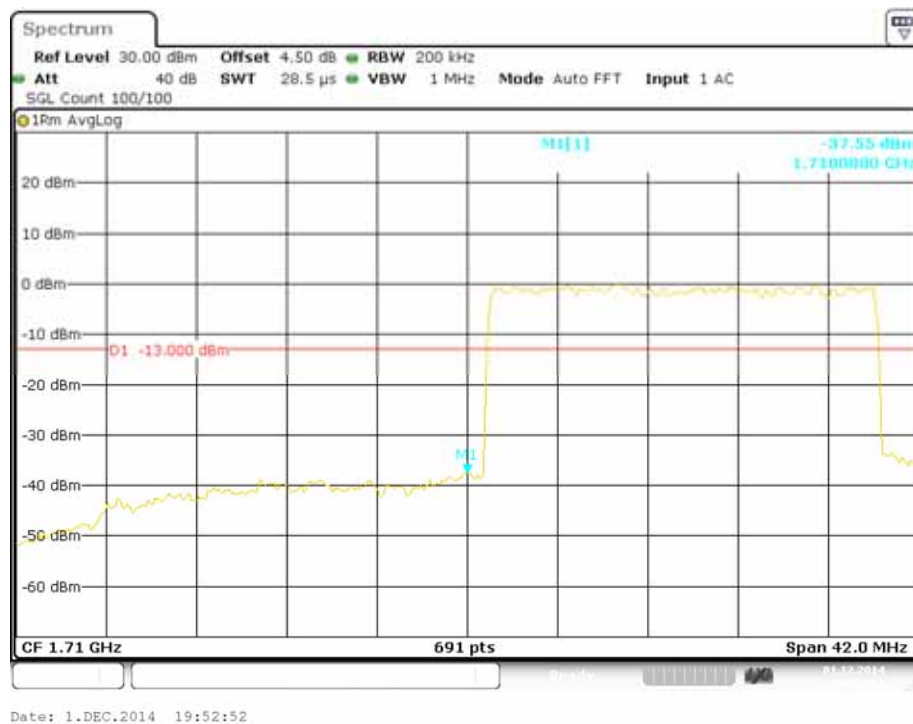
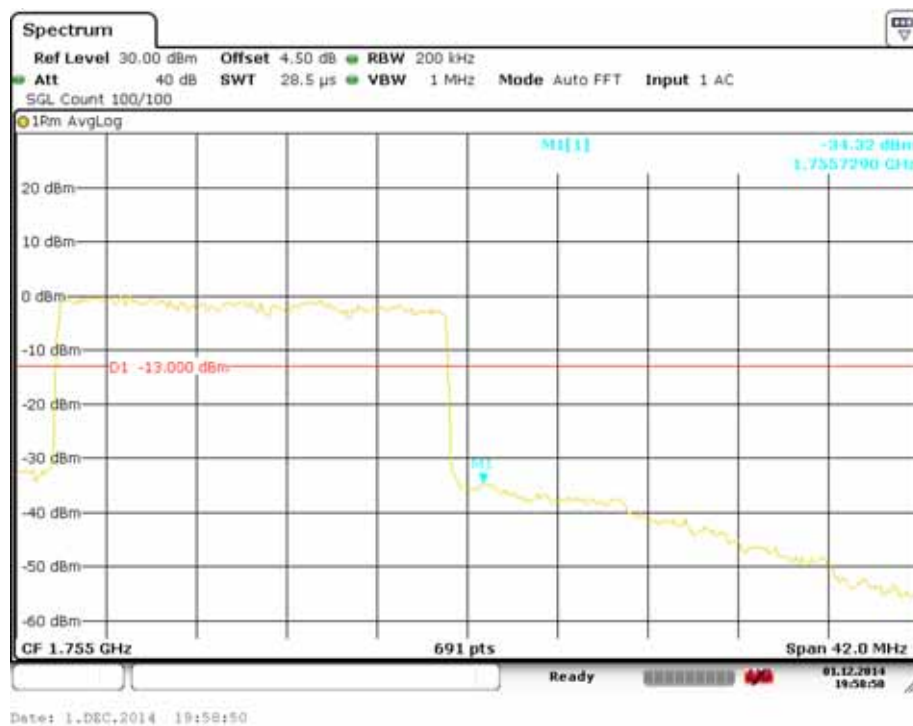


QPSK (20.0 MHz, 1RB) - Right Band Edge



16-QAM (20.0 MHz, 1RB) - Left Band Edge**16-QAM (20.0 MHz, 1RB) - Right Band Edge**

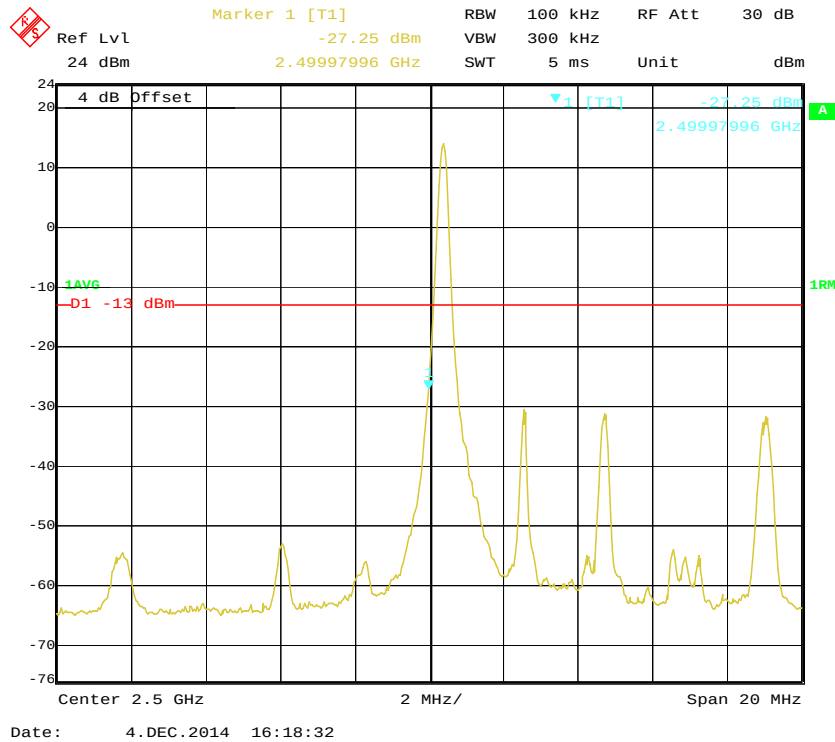
QPSK (20.0 MHz, FULL RB) - Left Band Edge**QPSK (20.0 MHz, FULL RB) - Right Band Edge**

16-QAM (20.0 MHz, FULL RB) - Left Band Edge**16-QAM (20.0 MHz, FULL RB) - Right Band Edge**

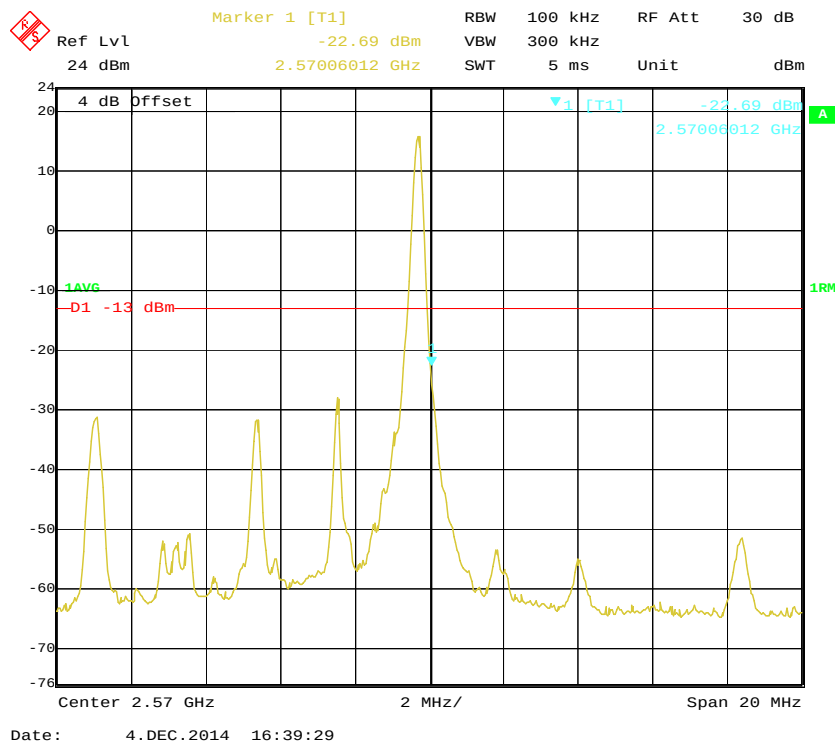
Band 7:

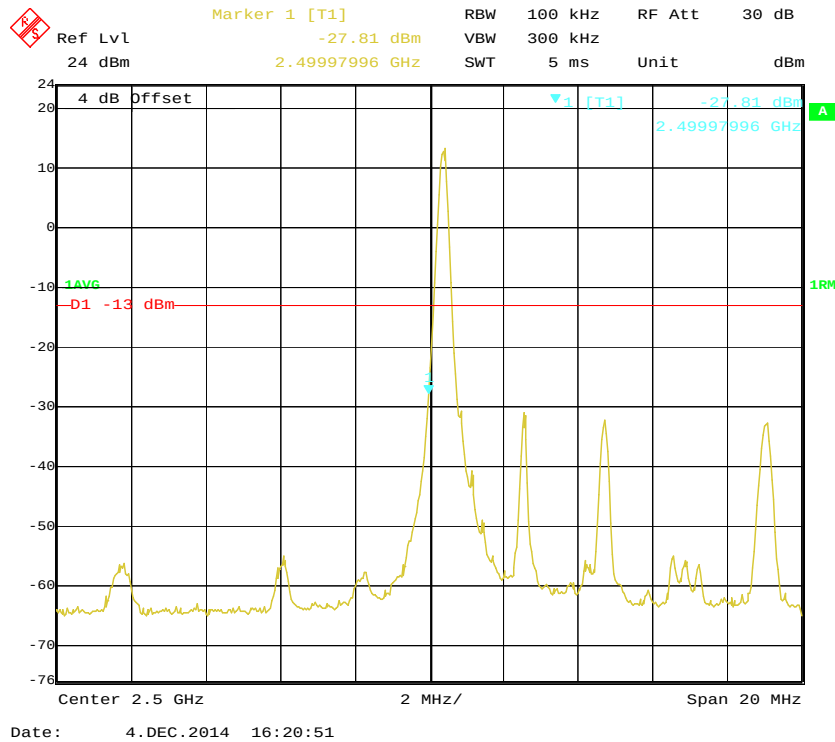
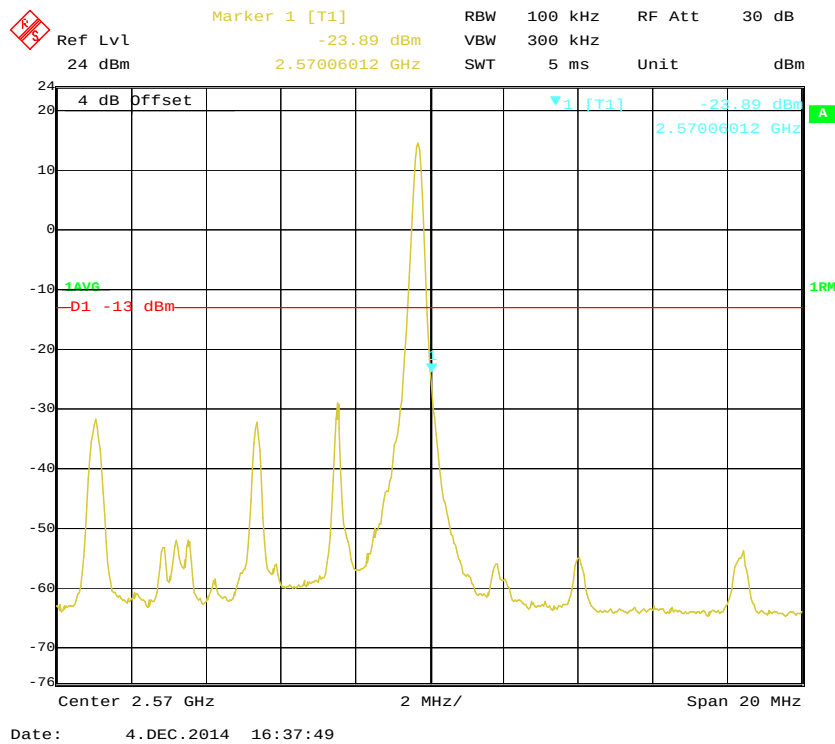
Bandwidth (MHz)	RB	Modulation	Left Band Edge (dBm)	Right Band Edge (dBm)	Limit (dBm)	Result
5.0 MHz	1RB	QPSK	-27.25	-22.69	≤ -13	PASS
		16QAM	-27.81	-23.89	≤ -13	PASS
	FULL RB	QPSK	-35.04	-33.68	≤ -13	PASS
		16QAM	-36.93	-33.52	≤ -13	PASS
10.0 MHz	1RB	QPSK	-36.43	-35.30	≤ -13	PASS
		16QAM	-38.93	-36.61	≤ -13	PASS
	FULL RB	QPSK	-36.54	-38.26	≤ -13	PASS
		16QAM	-39.17	-39.13	≤ -13	PASS
15.0 MHz	1RB	QPSK	-39.45	-41.94	≤ -13	PASS
		16QAM	-41.80	-42.01	≤ -13	PASS
	FULL RB	QPSK	-36.70	-40.50	≤ -13	PASS
		16QAM	-39.13	-42.38	≤ -13	PASS
20.0 MHz	1RB	QPSK	-45.64	-46.51	≤ -13	PASS
		16QAM	-45.73	-44.74	≤ -13	PASS
	FULL RB	QPSK	-39.75	-43.54	≤ -13	PASS
		16QAM	-42.61	-45.08	≤ -13	PASS

QPSK (5.0 MHz, 1RB) - Left Band Edge

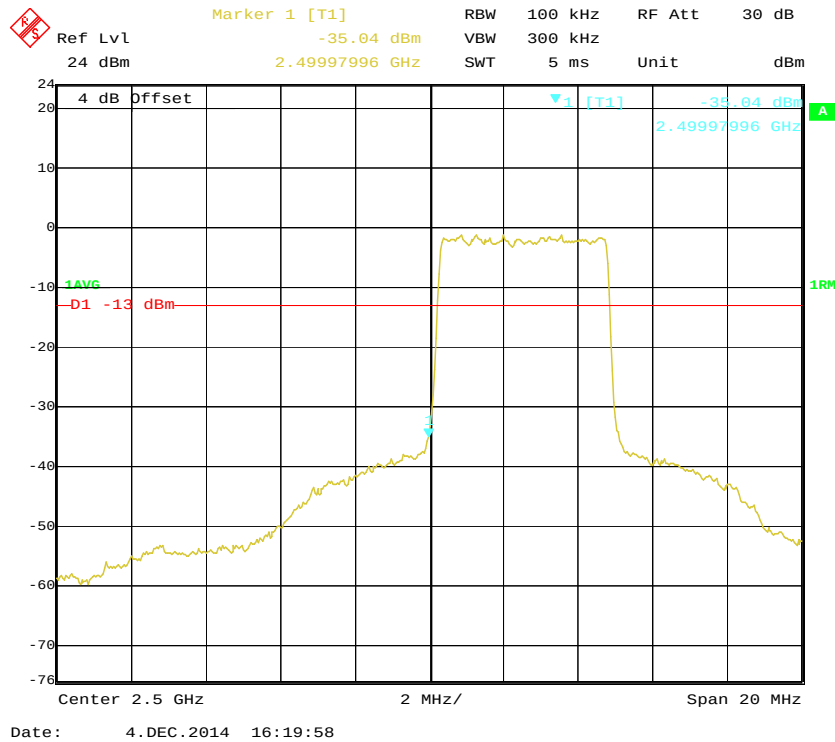


QPSK (5.0 MHz, 1RB) - Right Band Edge

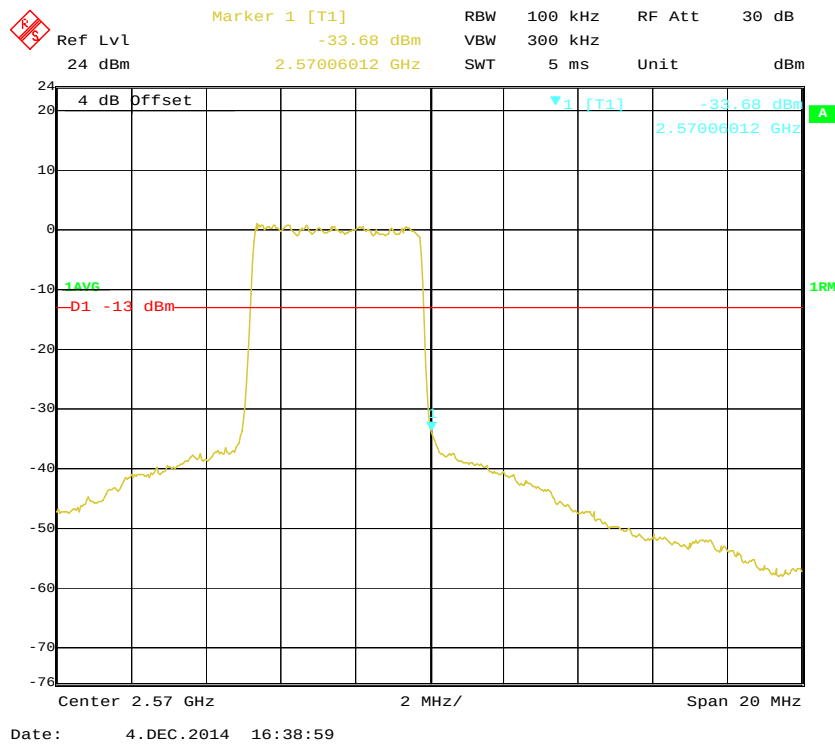


16-QAM (5.0 MHz, 1RB) - Left Band Edge**16-QAM (5.0 MHz, 1RB) - Right Band Edge**

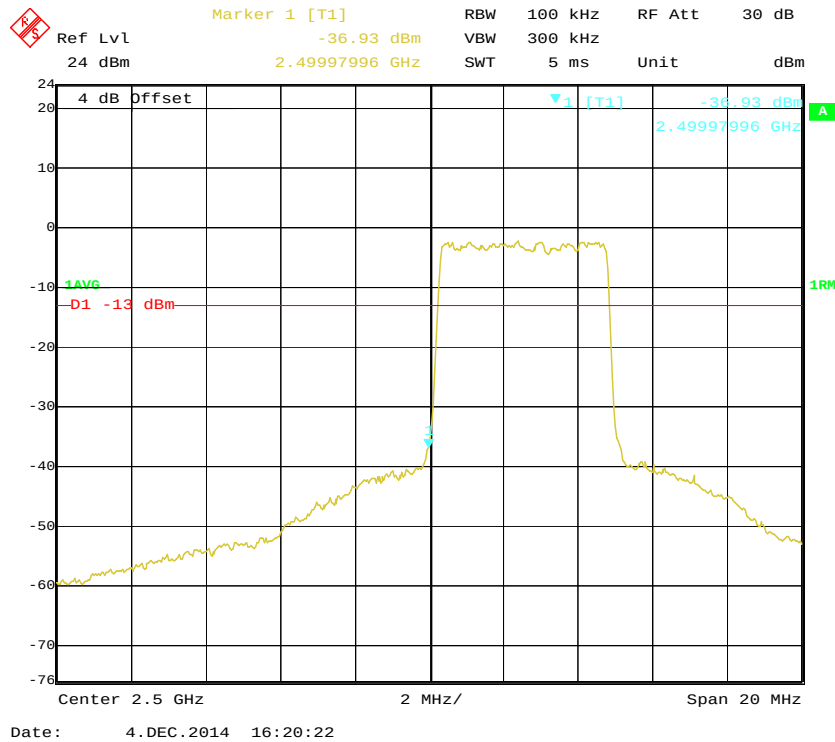
QPSK (5.0 MHz, FULL RB) - Left Band Edge



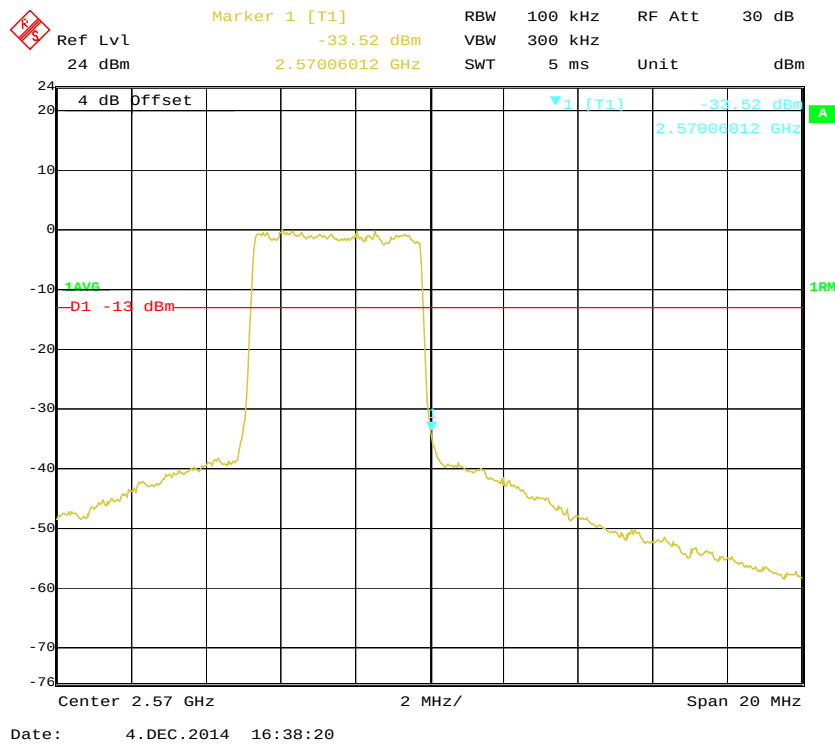
QPSK (5.0 MHz, FULL RB) - Right Band Edge



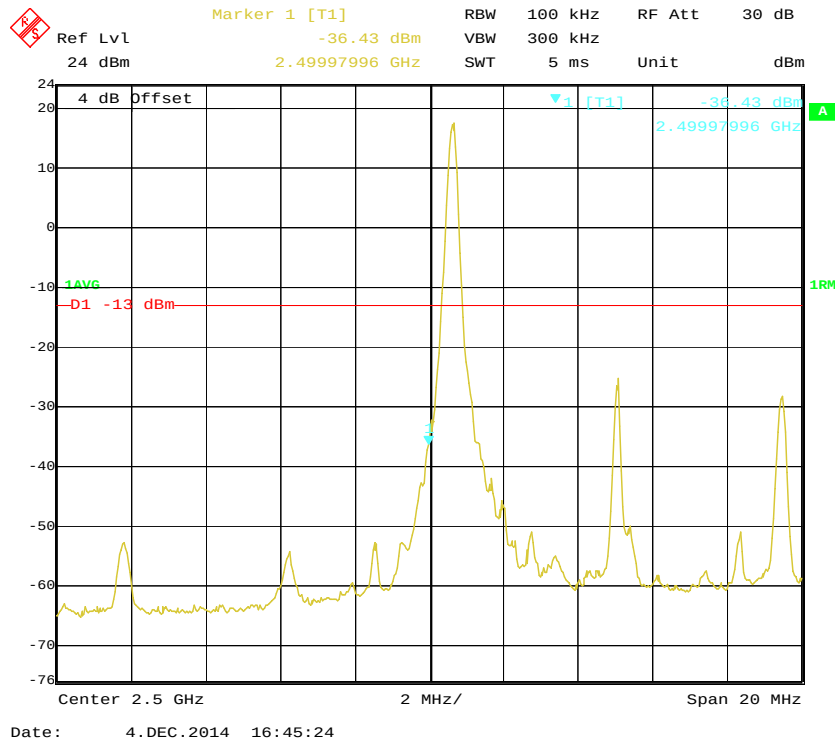
16-QAM (5.0 MHz, FULL RB) - Left Band Edge



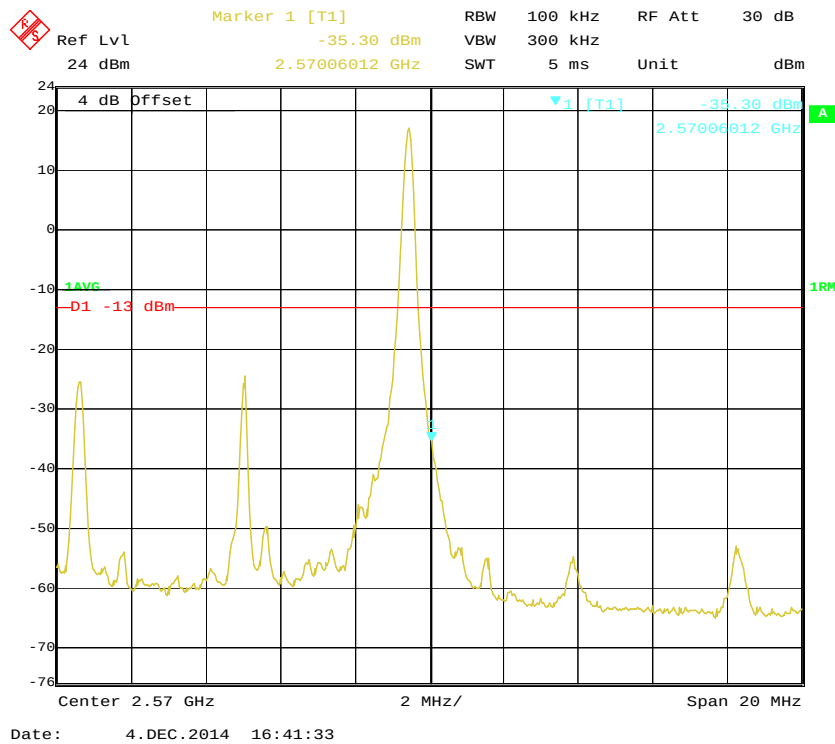
16-QAM (5.0 MHz, FULL RB) - Right Band Edge

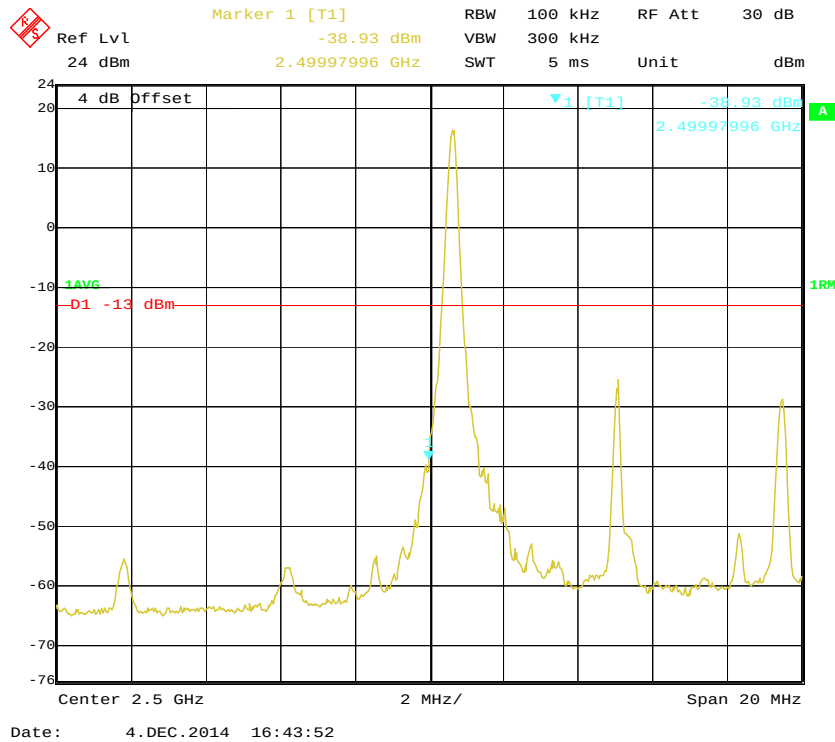
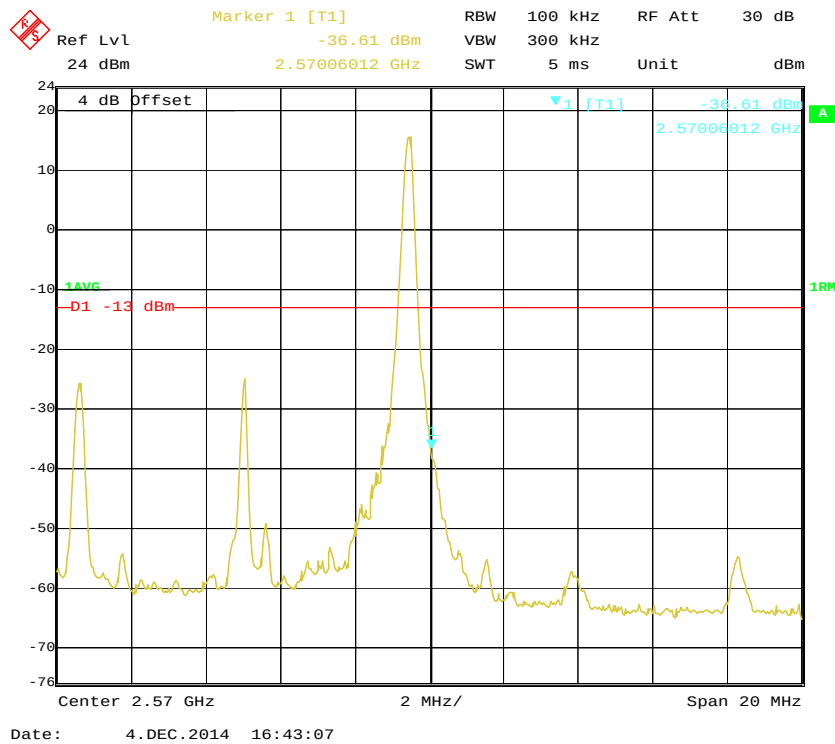


QPSK (10.0 MHz, 1RB) - Left Band Edge

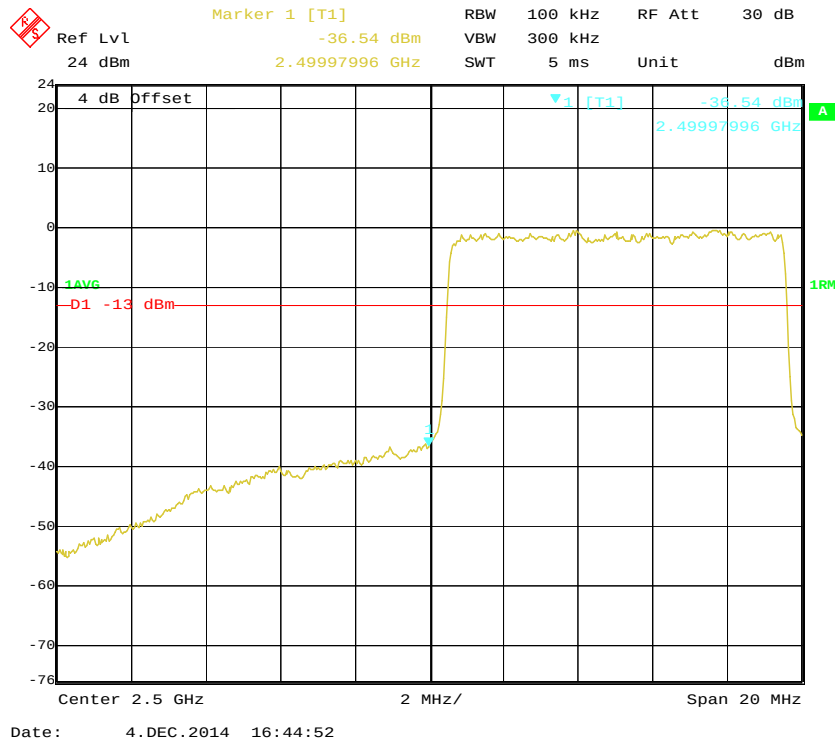


QPSK (10.0 MHz, 1RB) - Right Band Edge

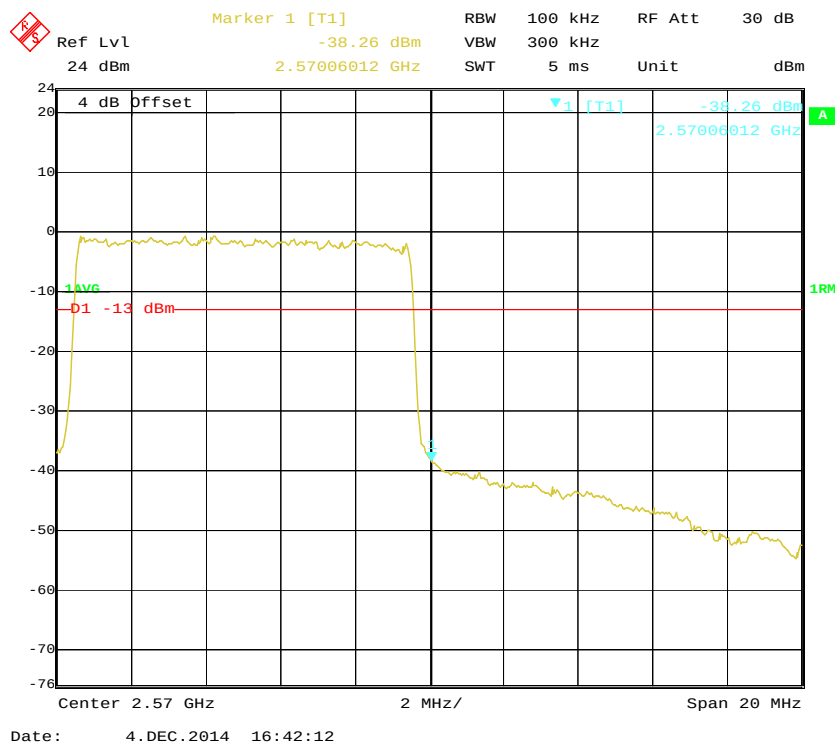


16-QAM (10.0 MHz, 1RB) - Left Band Edge**16-QAM (10.0 MHz, 1RB) - Right Band Edge**

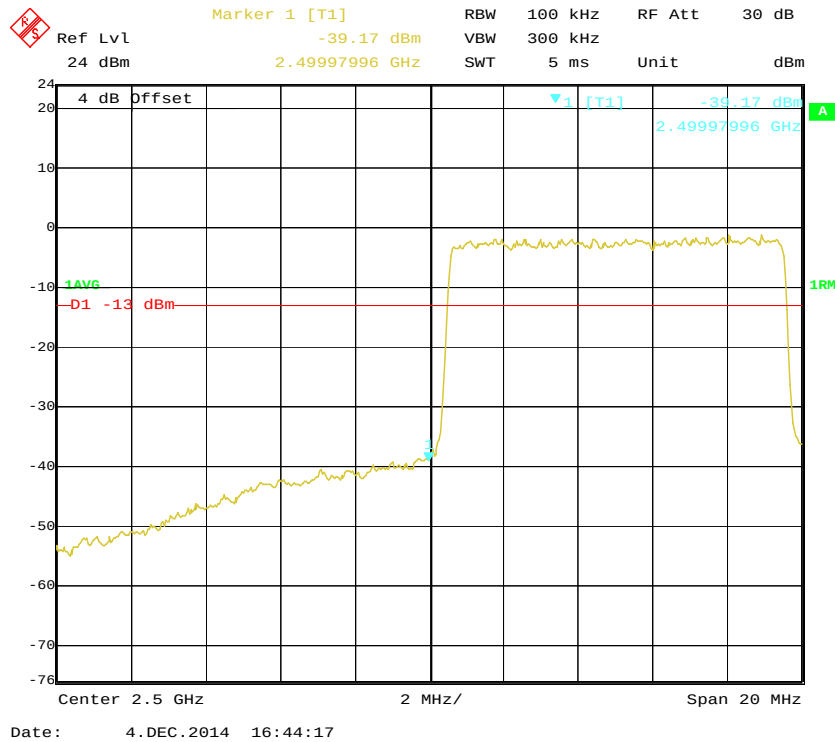
QPSK (10.0 MHz, FULL RB) - Left Band Edge



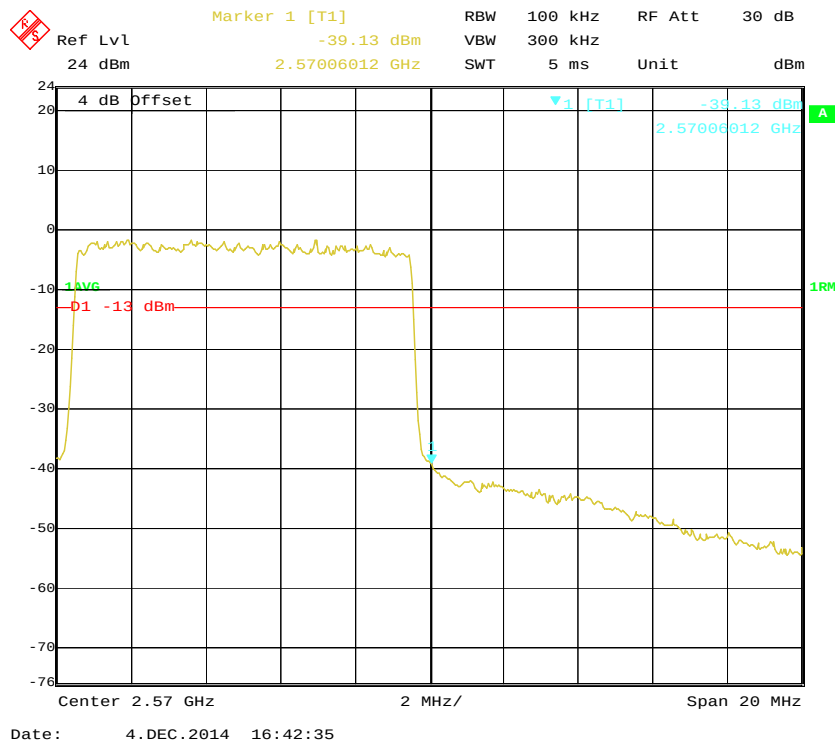
QPSK (10.0 MHz, FULL RB) - Right Band Edge



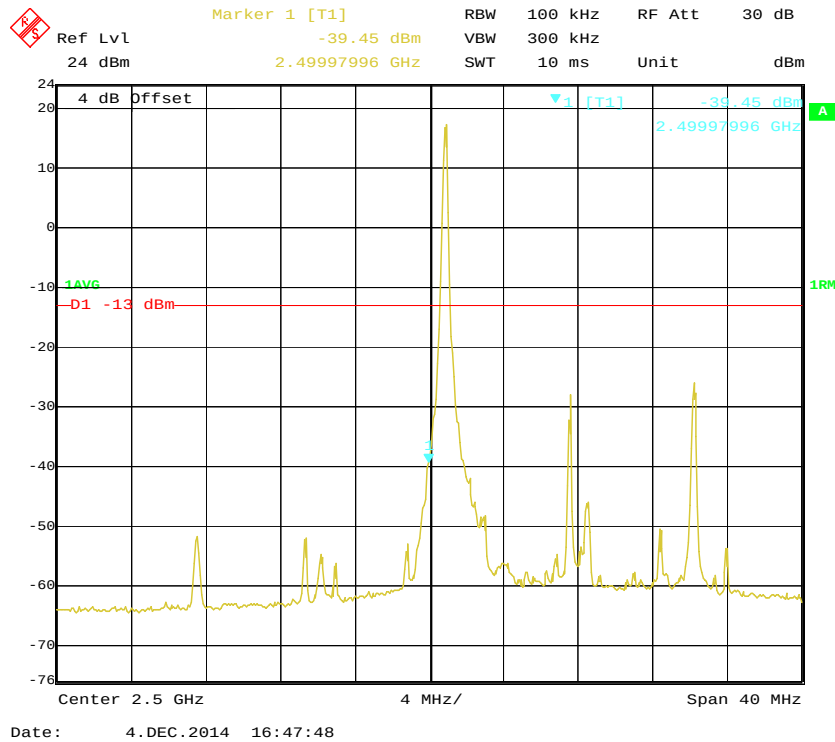
16-QAM (10.0 MHz, FULL RB) - Left Band Edge



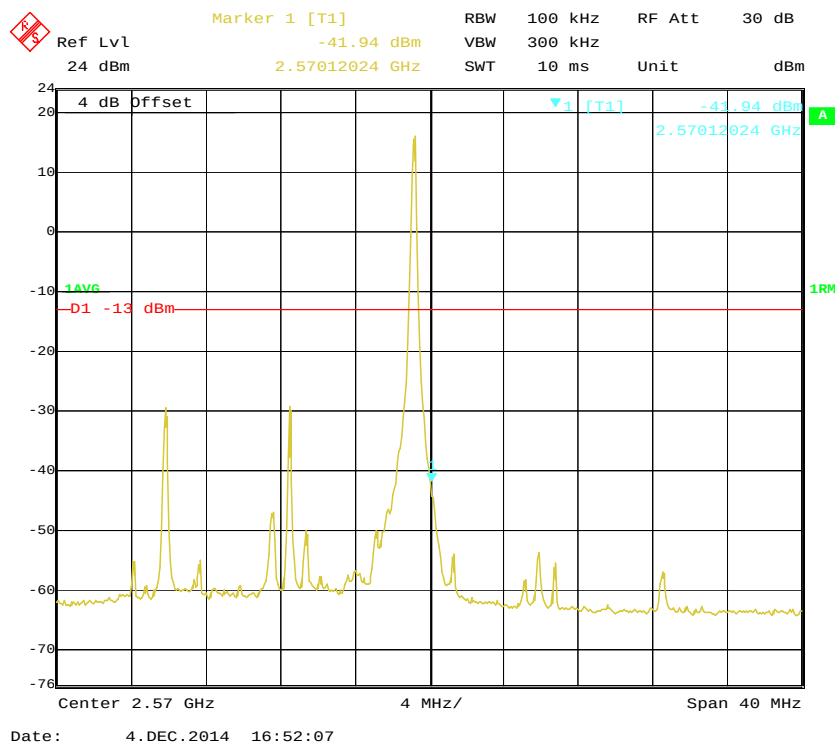
16-QAM (10.0 MHz, FULL RB) - Right Band Edge

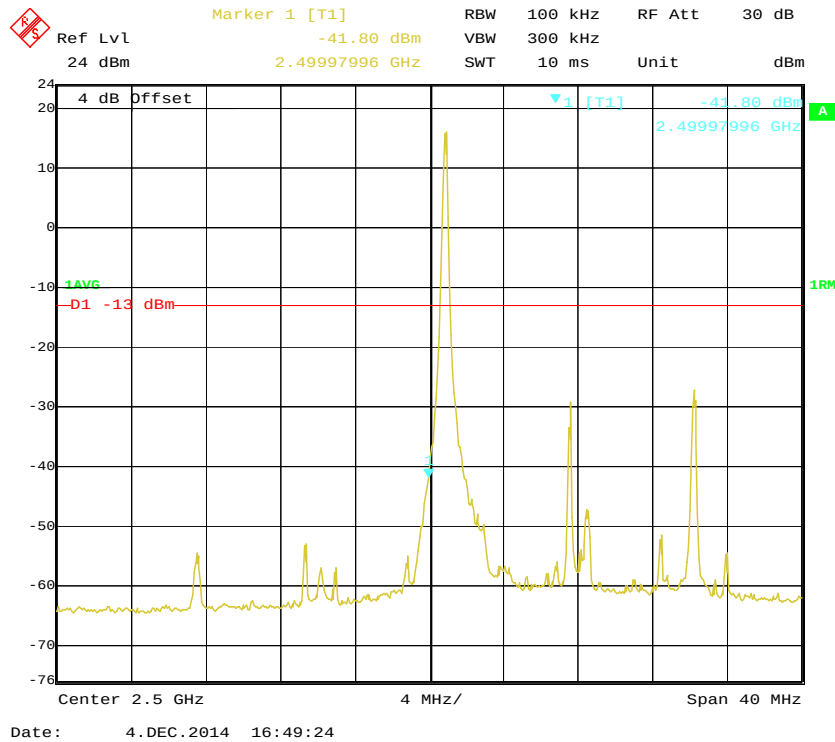
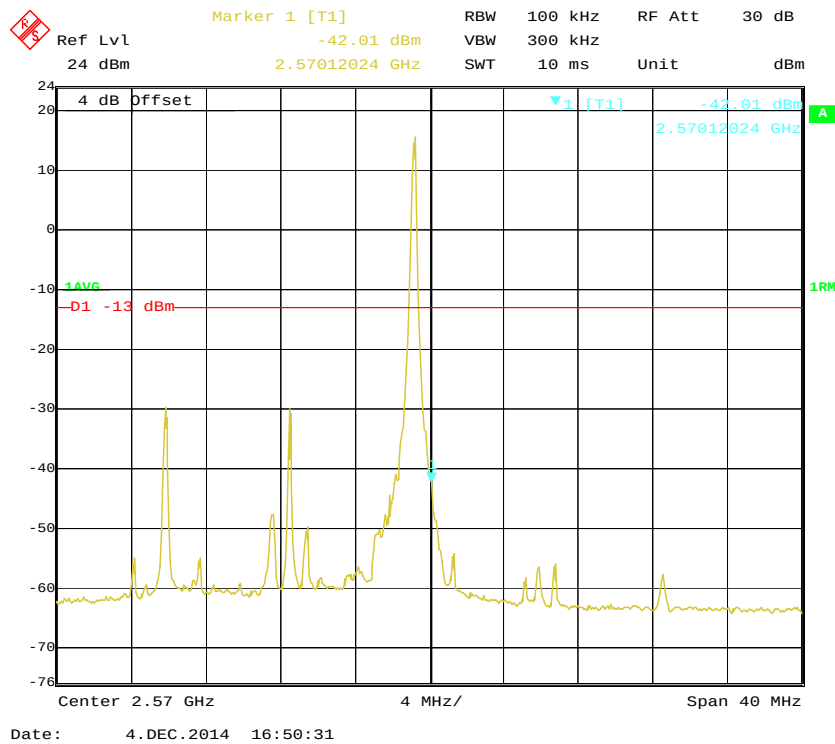


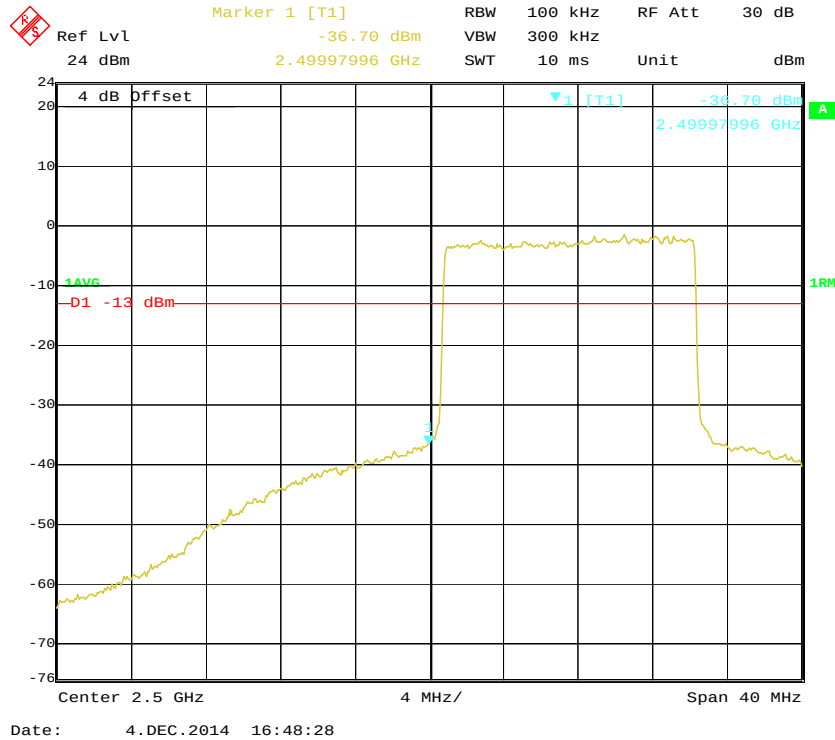
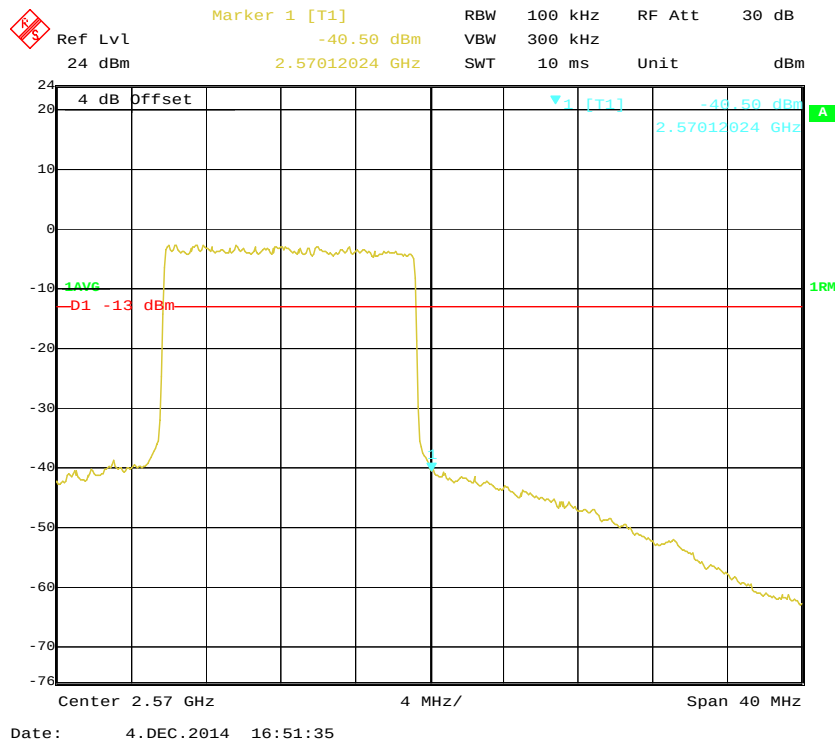
QPSK (15.0 MHz, 1RB) - Left Band Edge

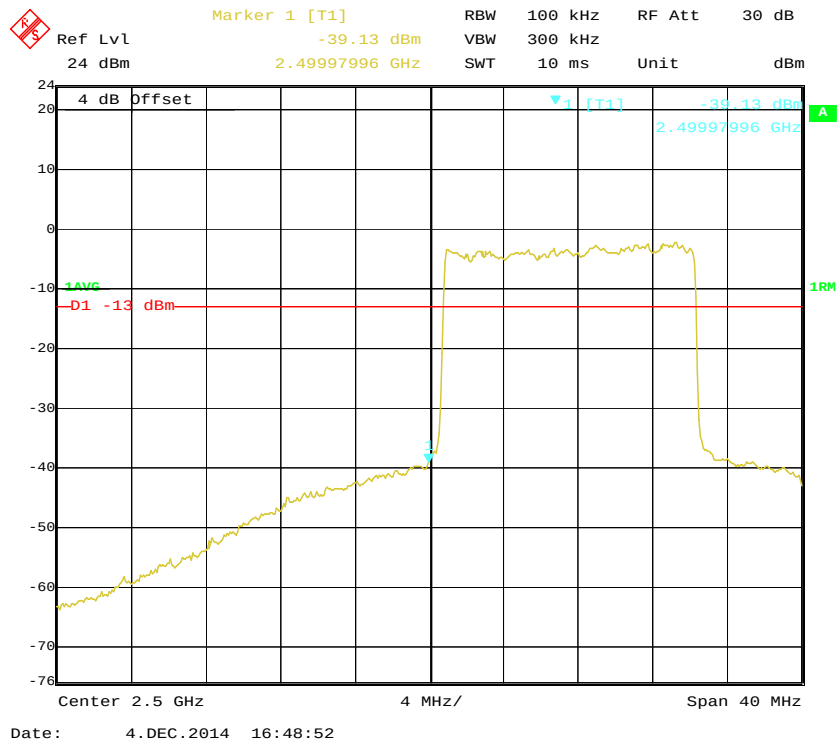
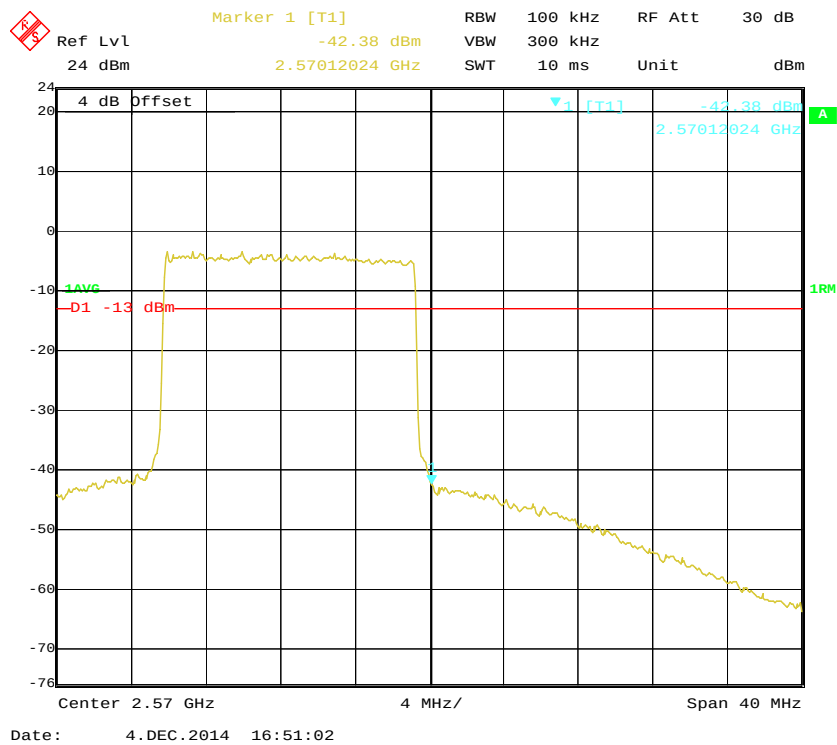


QPSK (15.0 MHz, 1RB) - Right Band Edge

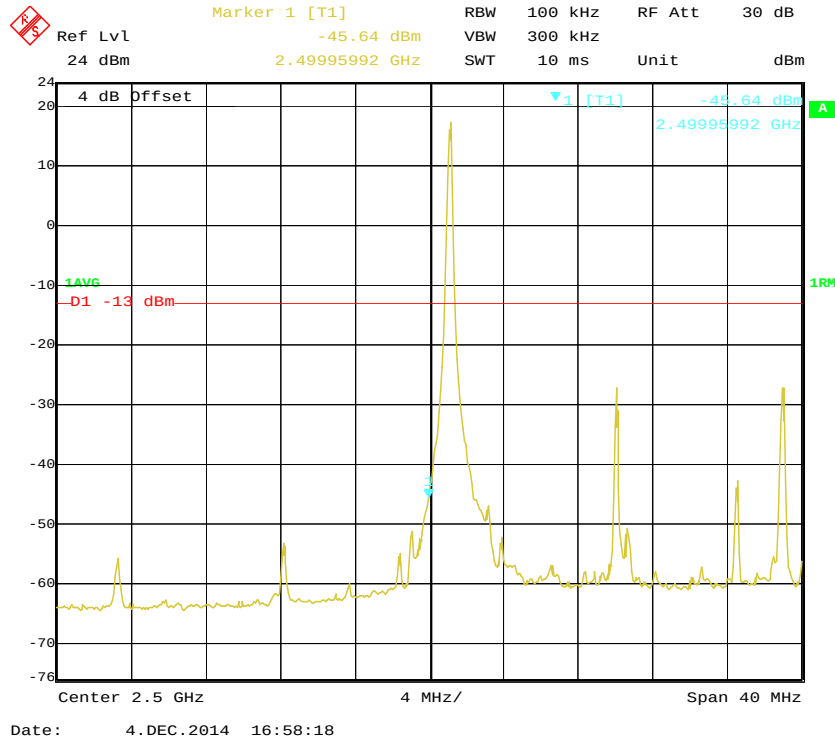


16-QAM (15.0 MHz, 1RB) - Left Band Edge**16-QAM (15.0 MHz, 1RB) - Right Band Edge**

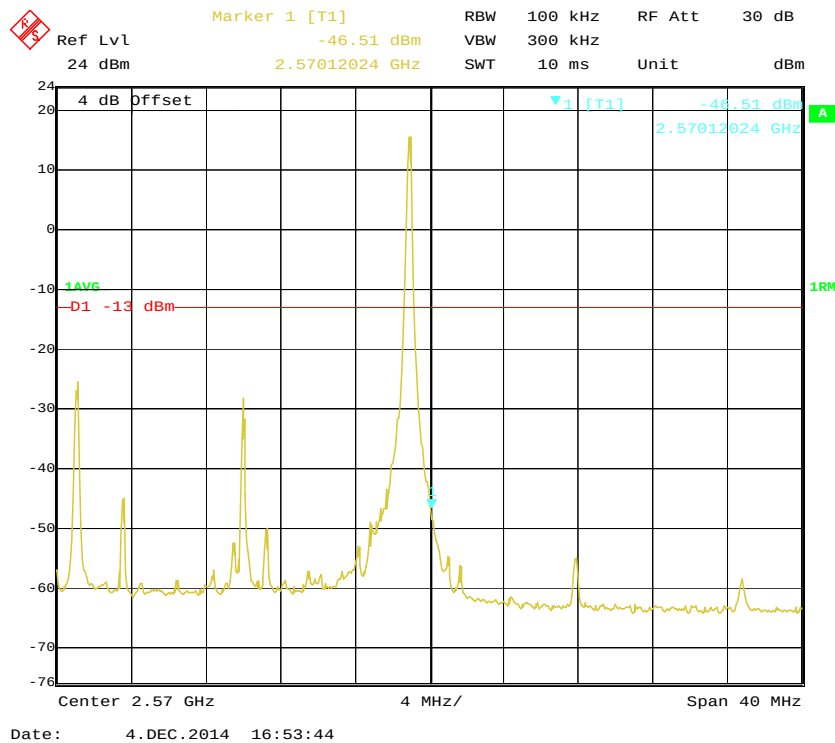
QPSK (15.0 MHz, FULL RB) - Left Band Edge**QPSK (15.0 MHz, FULL RB) - Right Band Edge****16-QAM (15.0 MHz, FULL RB) - Left Band Edge**

**16-QAM (15.0 MHz, FULL RB) - Right Band Edge**

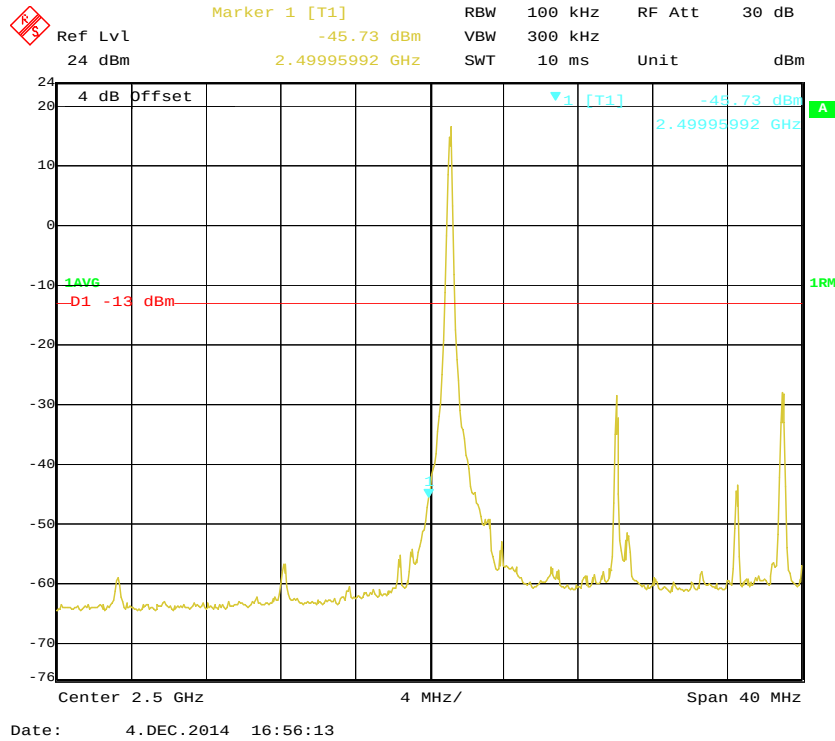
QPSK (20.0 MHz, 1RB) - Left Band Edge



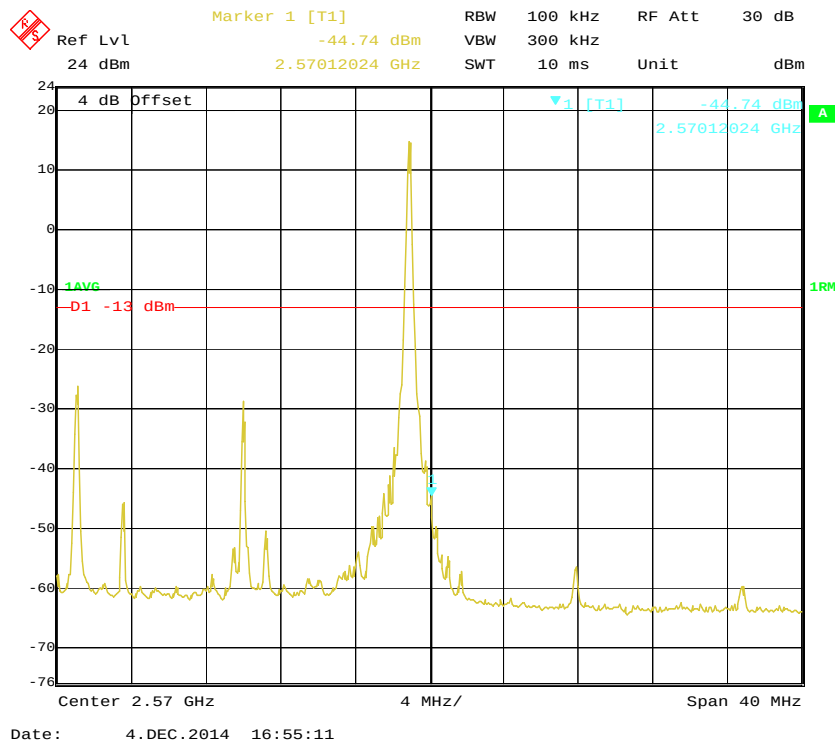
QPSK (20.0 MHz, 1RB) - Right Band Edge



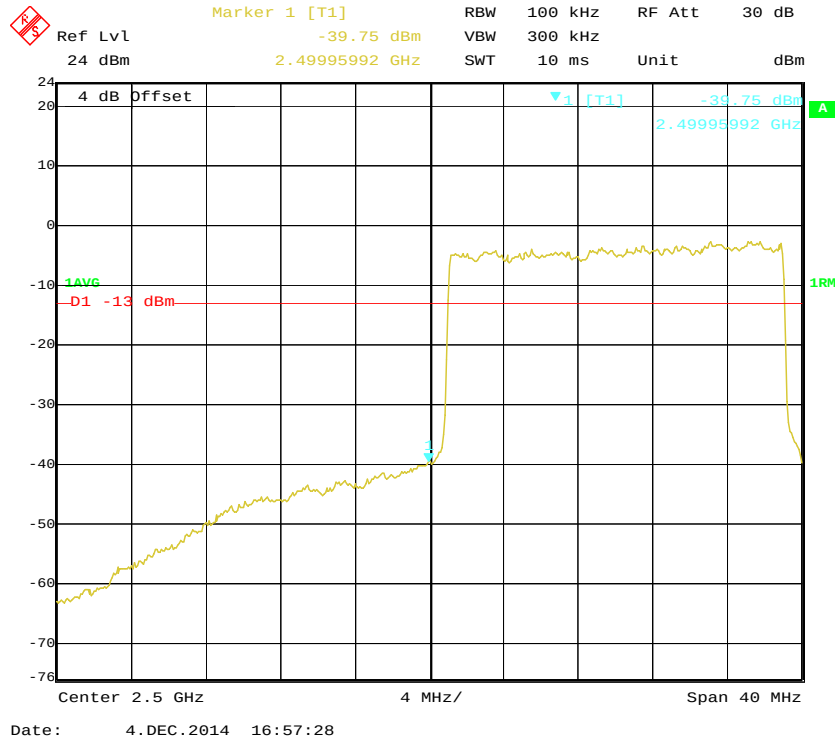
16-QAM (20.0 MHz, 1RB) - Left Band Edge



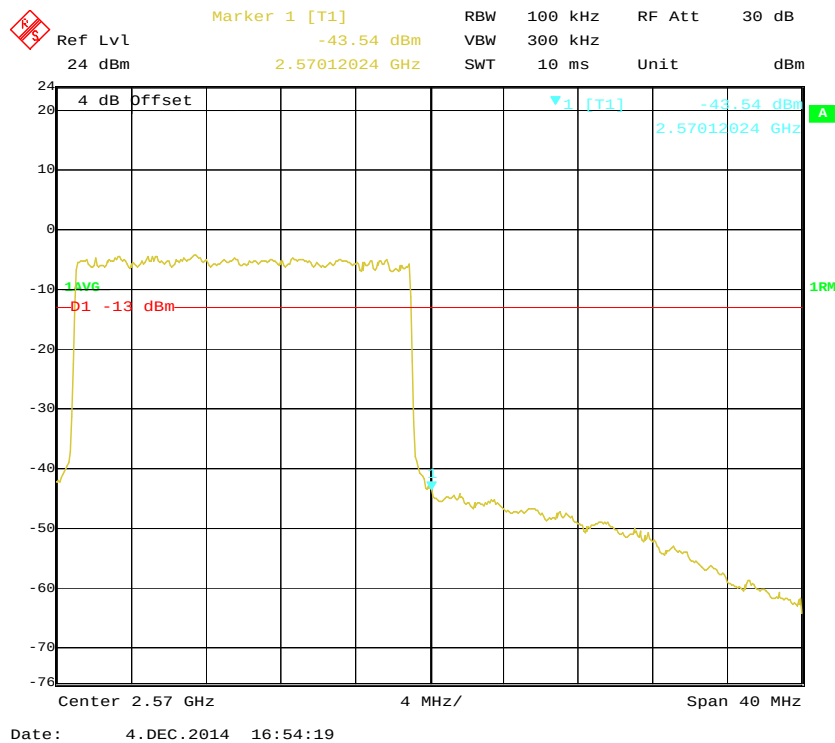
16-QAM (20.0 MHz, 1RB) - Right Band Edge



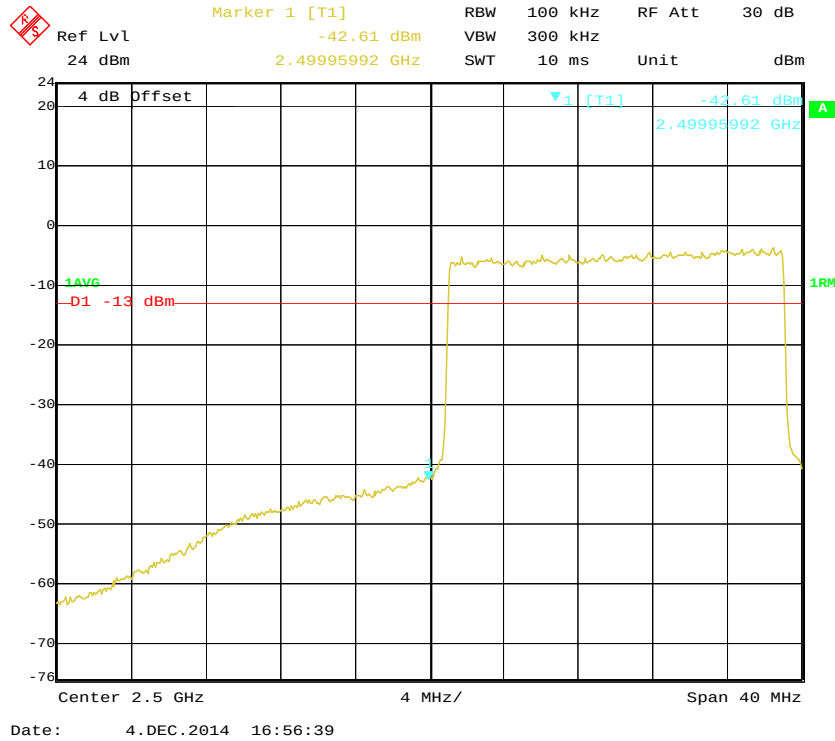
QPSK (20.0 MHz, FULL RB) - Left Band Edge



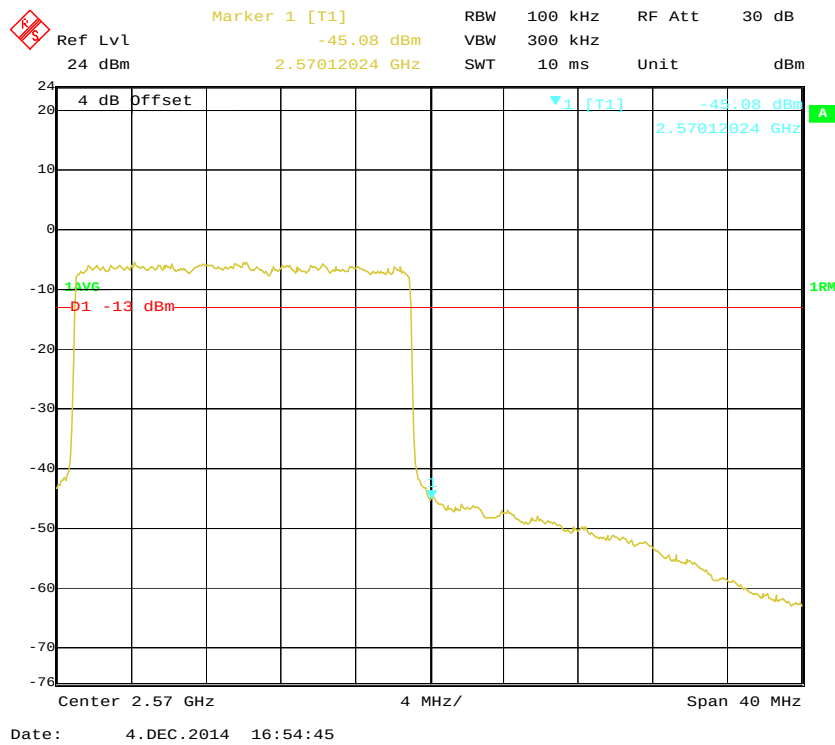
QPSK (20.0 MHz, FULL RB) - Right Band Edge



16-QAM (20.0 MHz, FULL RB) - Left Band Edge



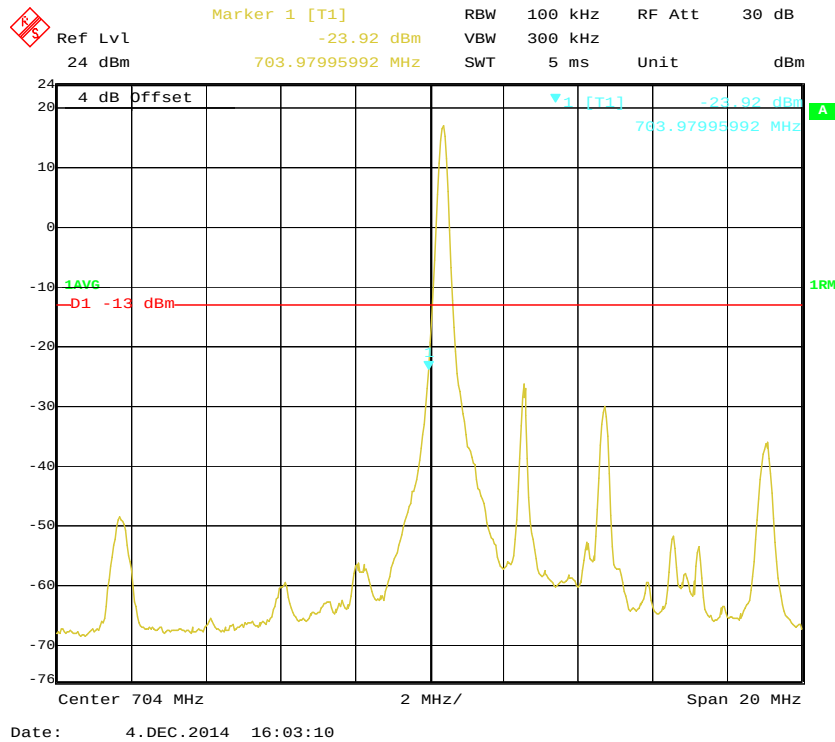
16-QAM (20.0 MHz, FULL RB) - Right Band Edge



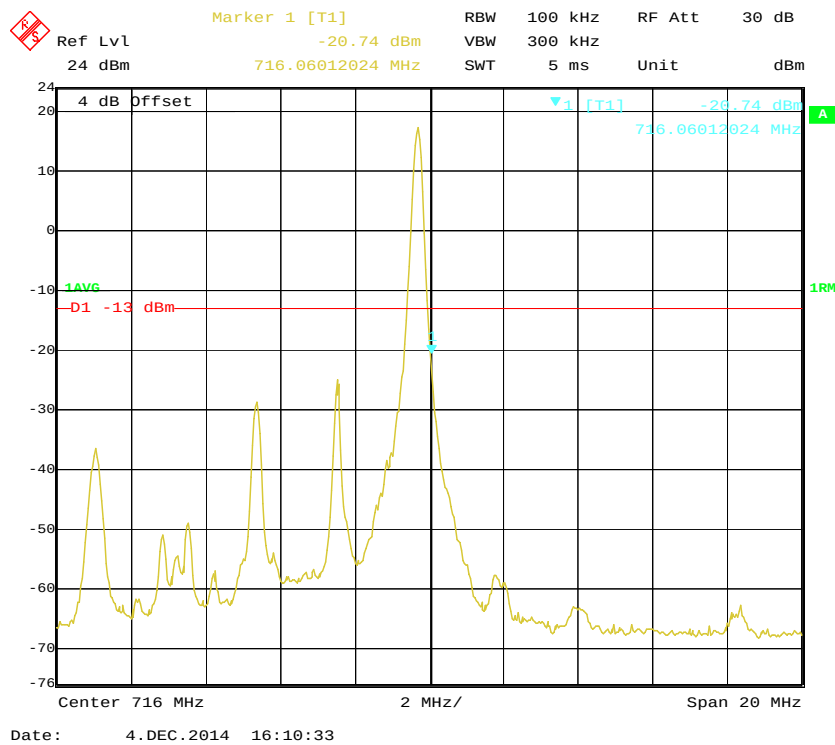
Band 17:

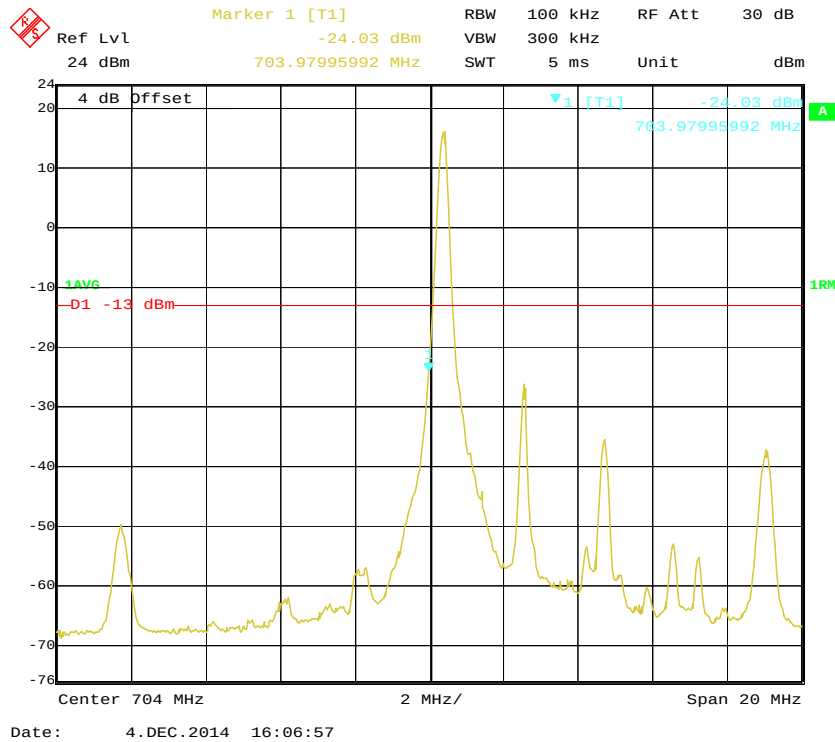
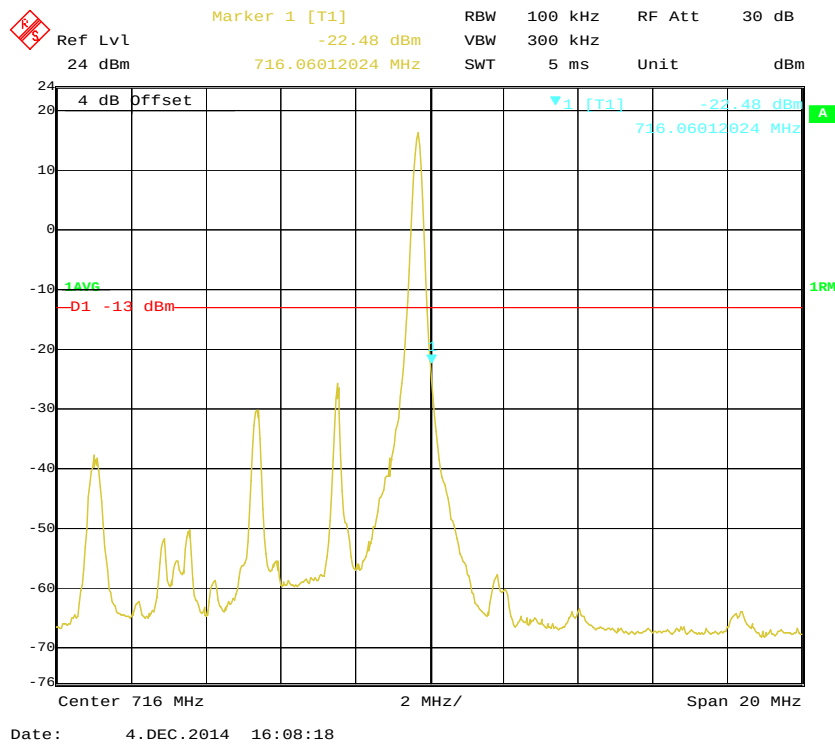
Bandwidth (MHz)	RB	Modulation	Left Band Edge (dBm)	Right Band Edge (dBm)	Limit (dBm)	Result
5.0 MHz	1RB	QPSK	-23.92	-20.74	≤ -13	PASS
		16QAM	-24.03	-22.48	≤ -13	PASS
	FULL RB	QPSK	-33.41	-34.39	≤ -13	PASS
		16QAM	-34.01	-34.87	≤ -13	PASS
10.0 MHz	1RB	QPSK	-36.31	-34.78	≤ -13	PASS
		16QAM	-38.14	-34.08	≤ -13	PASS
	FULL RB	QPSK	38.02	-40.37	≤ -13	PASS
		16QAM	-39.11	-41.87	≤ -13	PASS

QPSK (5.0 MHz, 1RB) - Left Band Edge

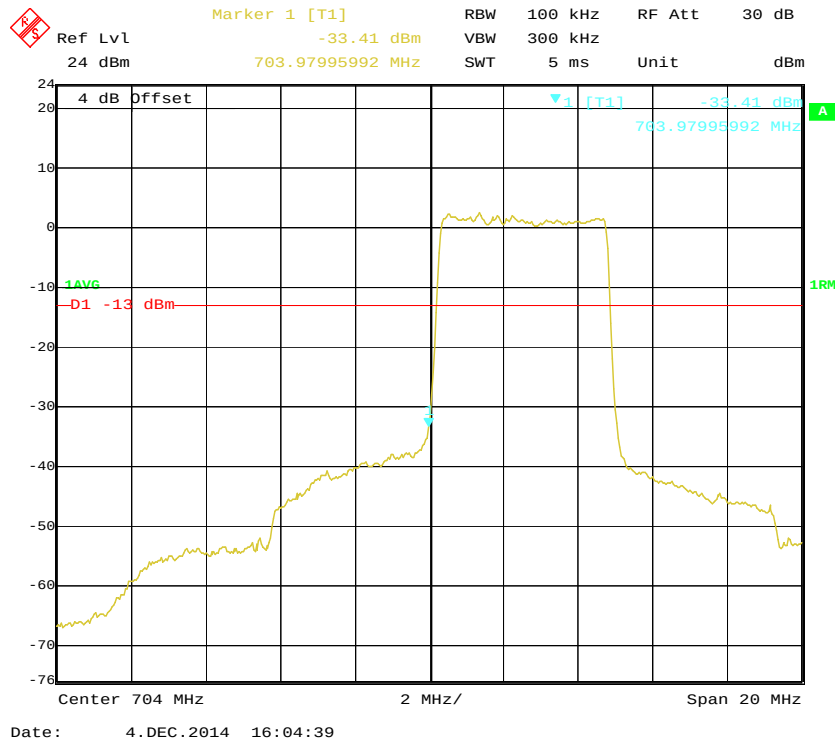


QPSK (5.0 MHz, 1RB) - Right Band Edge

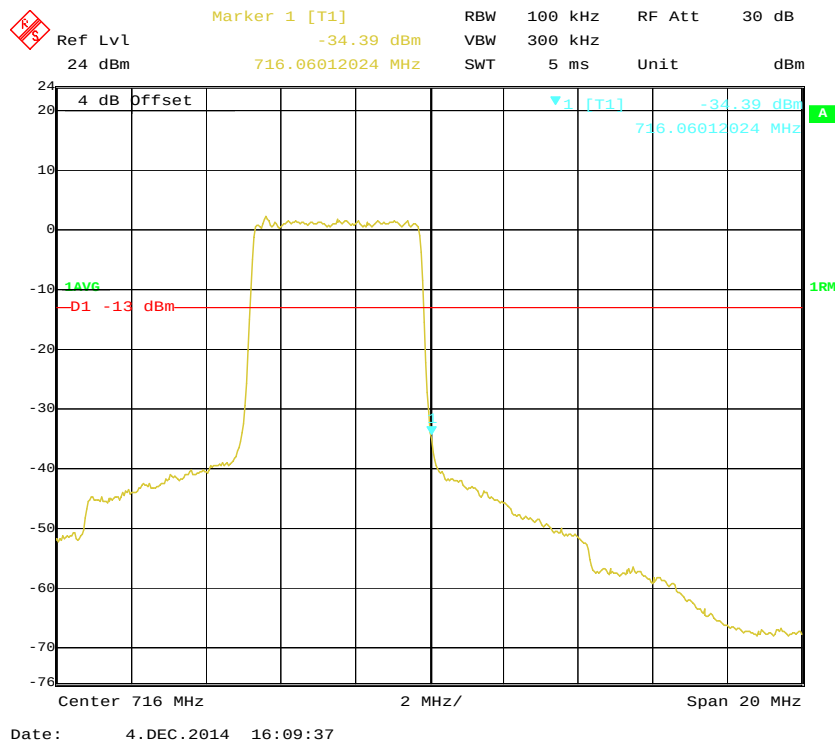


16-QAM (5.0 MHz, 1RB) - Left Band Edge**16-QAM (5.0 MHz, 1RB) - Right Band Edge**

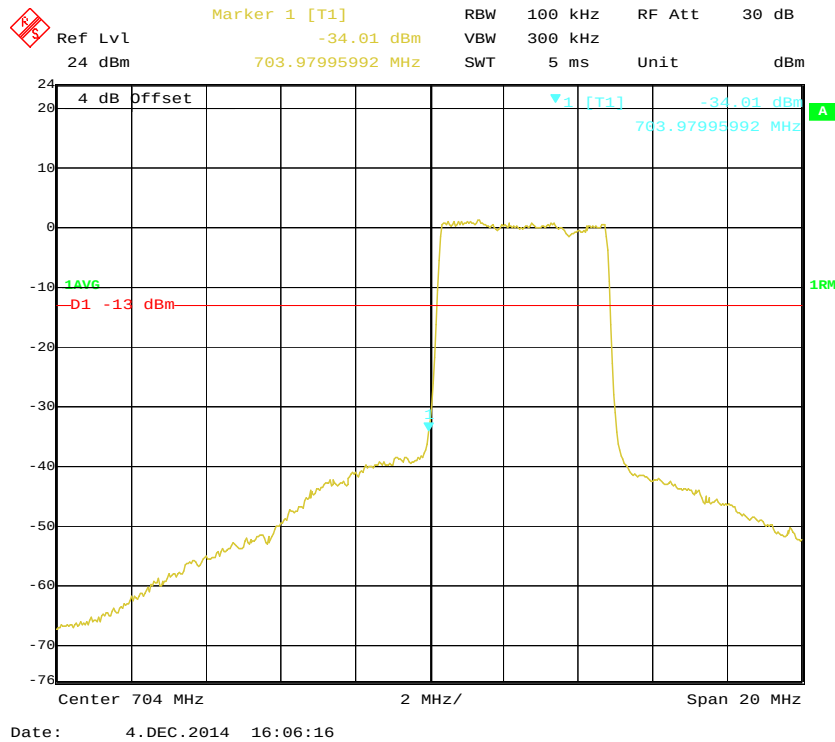
QPSK (5.0 MHz, FULL RB) - Left Band Edge



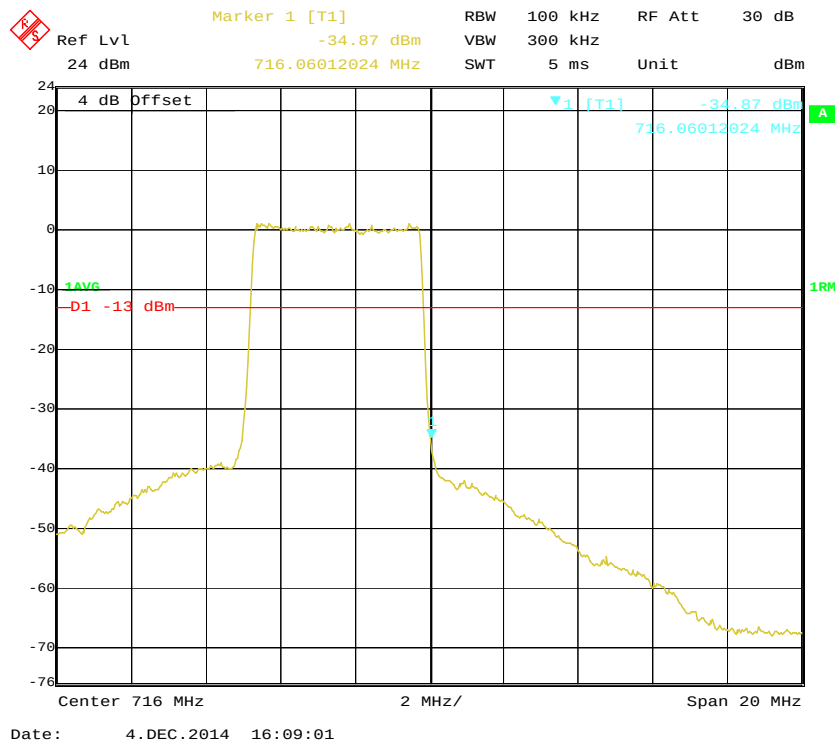
QPSK (5.0 MHz, FULL RB) - Right Band Edge



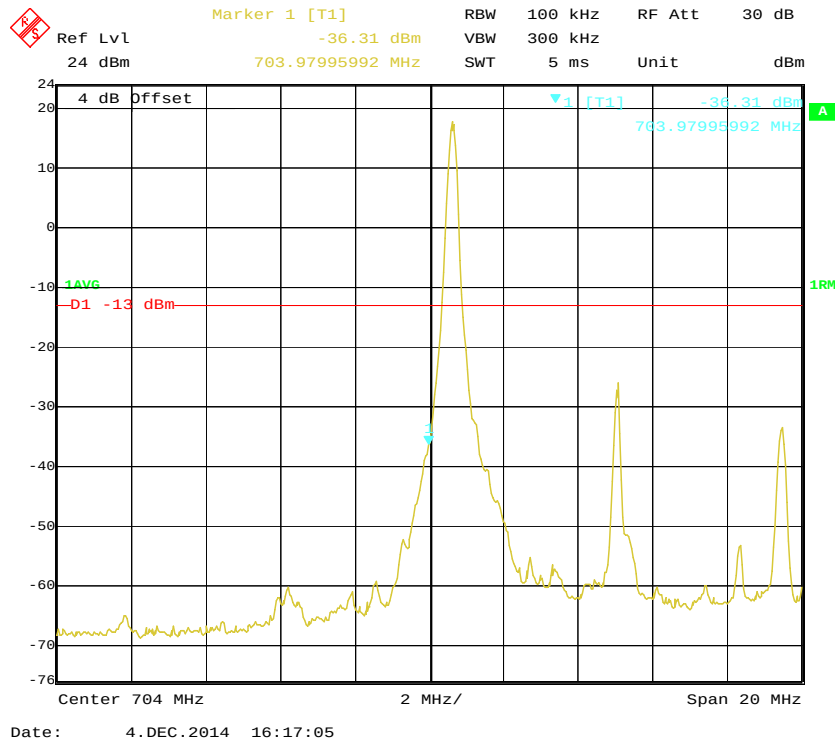
16-QAM (5.0 MHz, FULL RB) - Left Band Edge



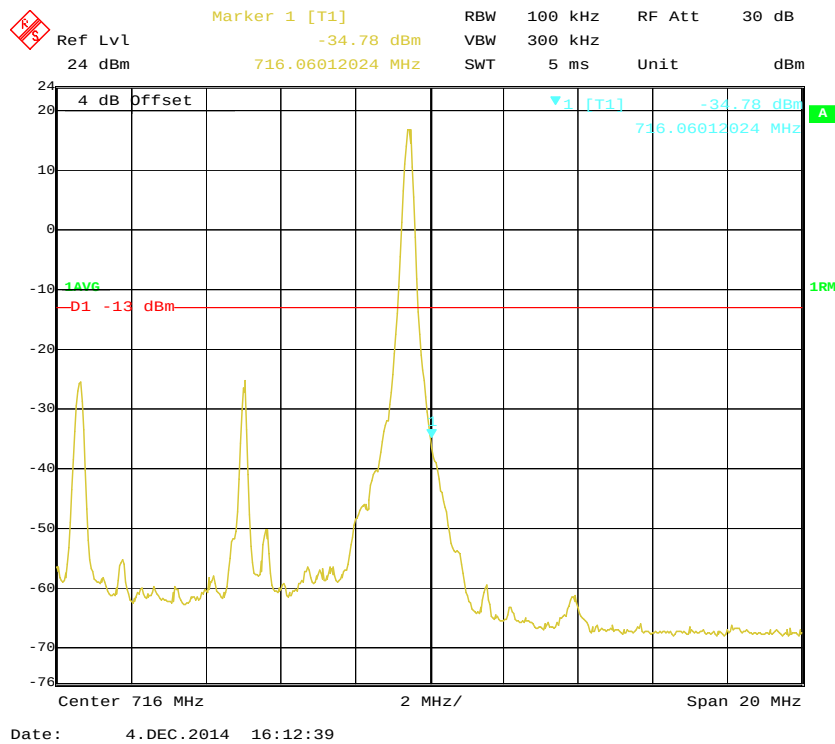
16-QAM (5.0 MHz, FULL RB) - Right Band Edge

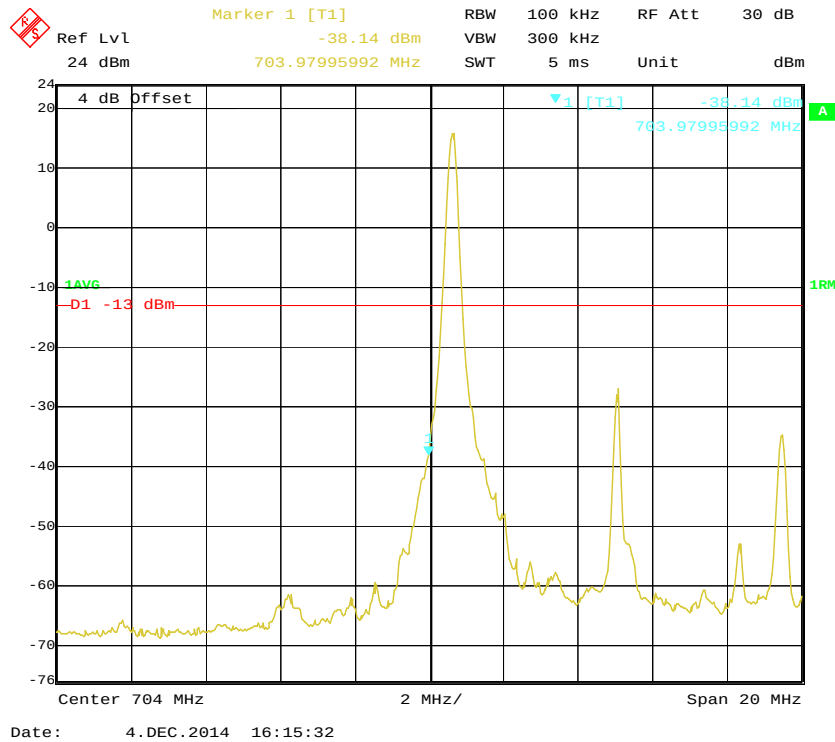
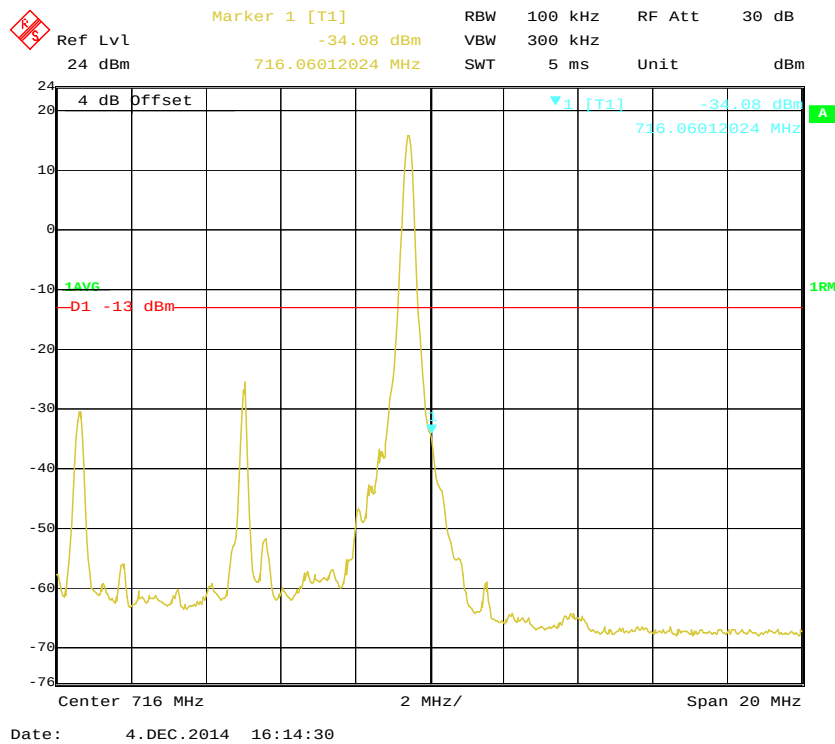


QPSK (10.0 MHz, 1RB) - Left Band Edge

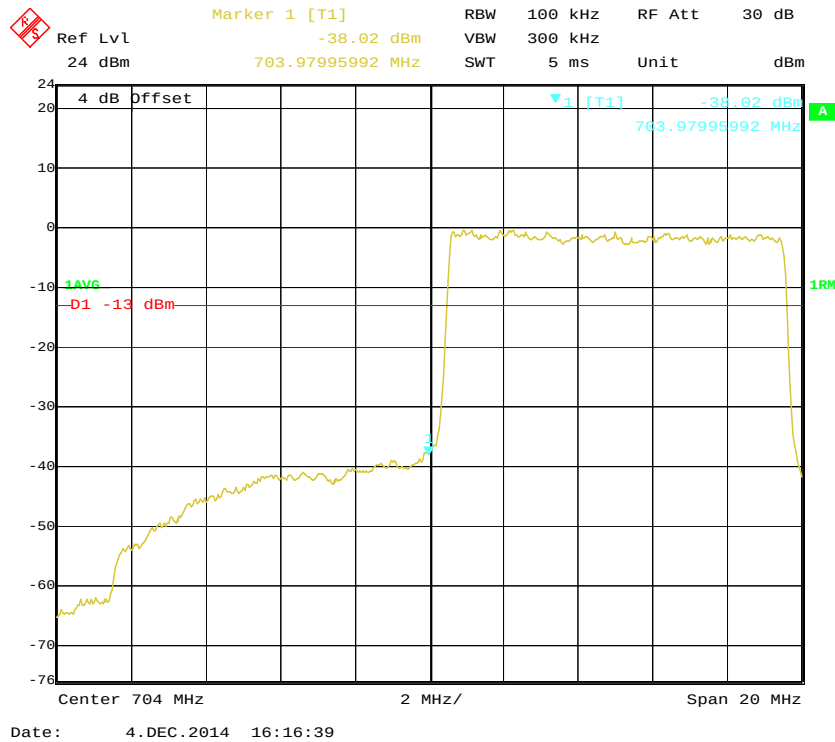


QPSK (10.0 MHz, 1RB) - Right Band Edge

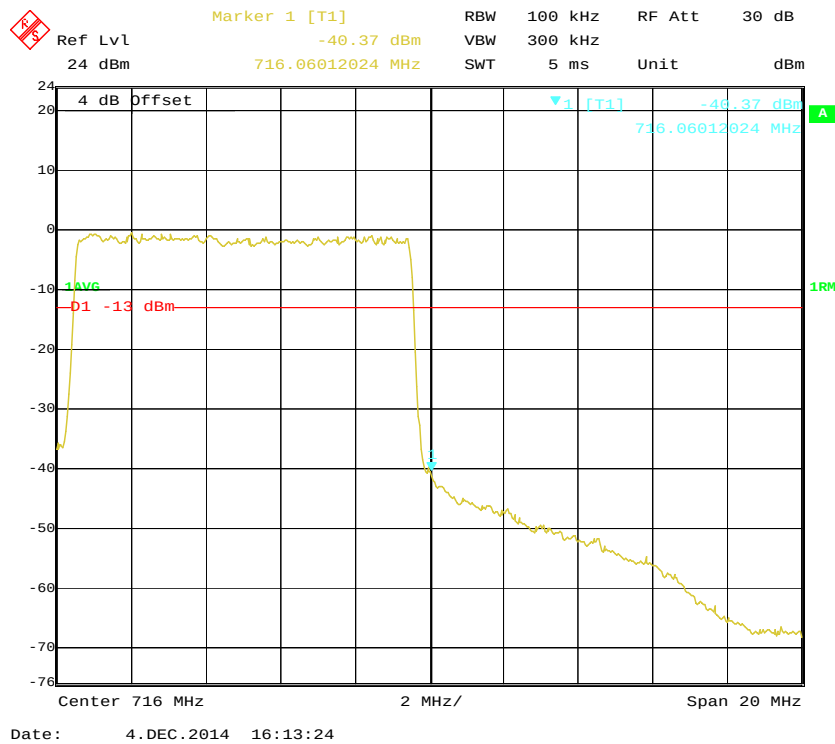


16-QAM (10.0 MHz, 1RB) - Left Band Edge**16-QAM (10.0 MHz, 1RB) - Right Band Edge**

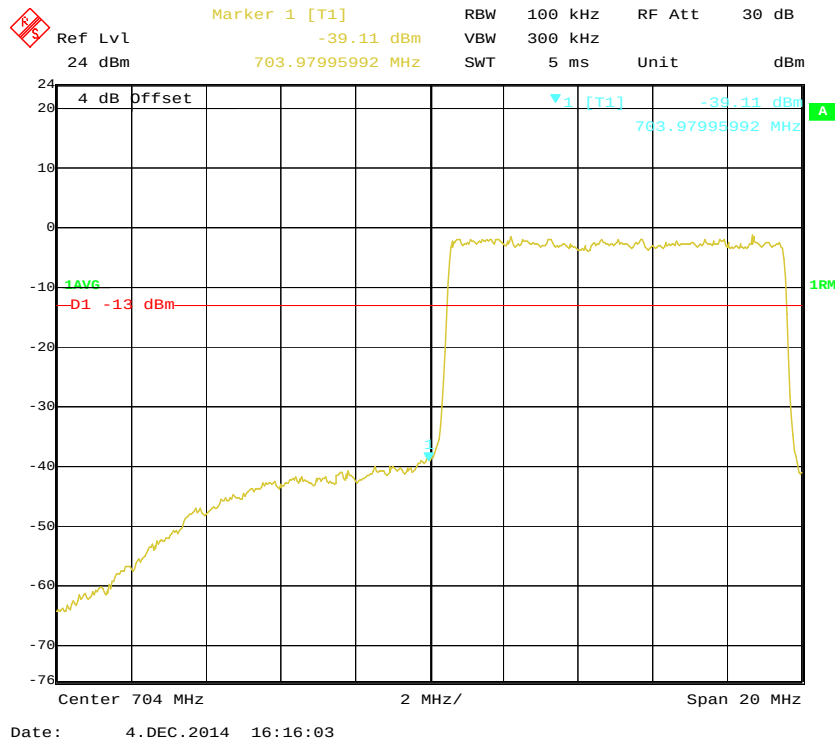
QPSK (10.0 MHz, FULL RB) - Left Band Edge



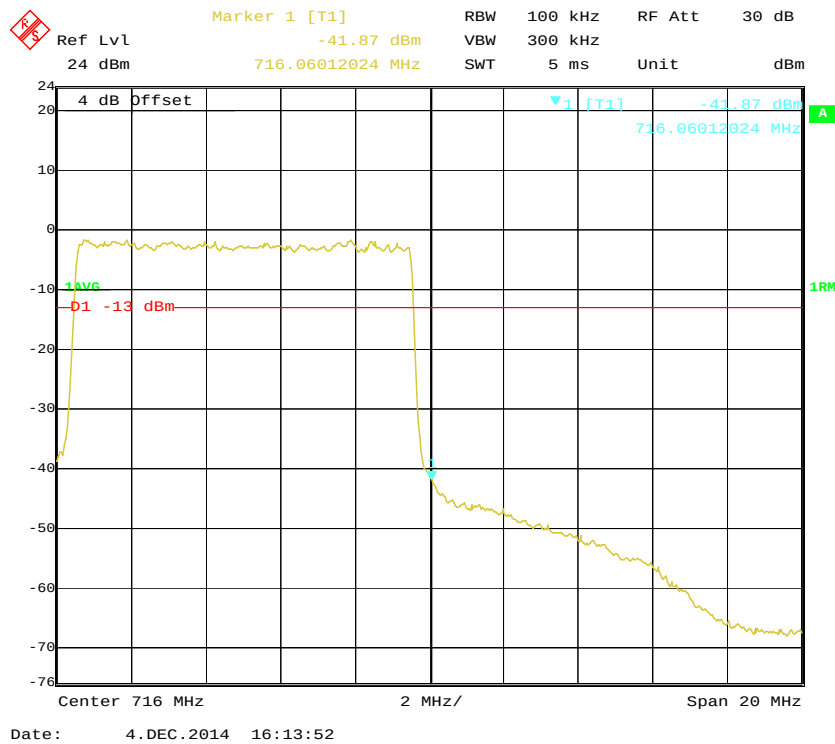
QPSK (10.0 MHz, FULL RB) - Right Band Edge



16-QAM (10.0 MHz, FULL RB) - Left Band Edge



16-QAM (10.0 MHz, FULL RB) - Right Band Edge



FCC §2.1055 & §27.54 - FREQUENCY STABILITY

Applicable Standards

According to FCC §2.1055, the frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

Test Procedure

The frequency stability of the transmitter is measured by:

- a.) **Temperature:** The temperature is varied from - 30 °C to + 50 °C using an environmental chamber.
- b.) **Primary Supply Voltage:** The primary supply voltage is varied from battery end point to 115 % of the voltage normally at the input to the device or at the power supply terminals if cables are not normally supplied.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
ESPEC	Temperature & Humidity Chamber	EL-10KA	09107726	2014-11-01	2015-11-01

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

Test Data

Environmental Conditions

Temperature:	20 °C
Relative Humidity:	58 %
ATM Pressure:	101.0 kPa

The testing was performed by William Li on 2014-12-01.

Band 4:

	Temperature(°C)	QPSK(Hz)	QPSK (ppm)
10.0 MHz, Middle Channel	-30	-19	-0.011
	-20	-17	-0.010
	-10	-15	-0.009
	0	-16	-0.009
	10	-17	-0.010
	20	-18	-0.010
	30	-16	-0.009
	40	-18	-0.010
	50	-19	-0.011
	Voltage(Volt)	QPSK(Hz)	QPSK (ppm)
	3.8	-19	-0.011
	3.5	-18	-0.010
	4.35	-16	-0.009

Band 7:

	Temperature(°C)	QPSK(Hz)	QPSK (ppm)
10.0 MHz, Middle Channel, FULL RB	-30	-25	-0.010
	-20	-22	-0.009
	-10	-23	-0.009
	0	-21	-0.008
	10	-19	-0.007
	20	-26	-0.010
	30	-25	-0.010
	40	-24	-0.009
	50	-23	-0.009
	Voltage(Volt)	QPSK(Hz)	QPSK (ppm)
	3.8	-26	-0.010
	3.5	-24	-0.009
	4.35	-23	-0.009

Band 17:

	Temperature(°C)	QPSK(Hz)	QPSK (ppm)
10.0 MHz, Middle Channel, FULL RB	-30	-6	-0.008
	-20	-7	-0.010
	-10	-5	-0.007
	0	-4	-0.006
	10	-5	-0.007
	20	-3	-0.004
	30	-4	-0.006
	40	-5	-0.007
	50	-4	-0.006
	Voltage(Volt)	QPSK(Hz)	QPSK (ppm)
	3.8	-5	-0.007
	3.5	-3	-0.004
	4.35	-4	-0.006

PRODUCT SIMILARITY DECLARATION LETTER



DDM Brands LLC
1616 NW, 84TH Ave. Miami, Florida, U.S.A
Tel: +13057750325 Fax: +13057750325

2014-7-16

Product Similarity Declaration

To Whom It May Concern,

We, DDM Brands LLC, hereby declare that we have a product named as 4G mobile phone (Model number: ANDY 5Q) was tested by BACL, meanwhile, for our marketing purpose, we would like to list a series models (Andy 5Q, Andy 5QL, AM5QL133, Andy C5Q, Andy C5QL, AC5QL133) on reports and certificate, all the models are identical schematics, except for the differences as below,

1, model number is different.

No other changes are made to them.

We confirm that all information above is true, and we'll be responsible for all the consequences. Please contact me if you have any question.

Signature:

Luis Sosa

CEO

A handwritten signature in black ink, appearing to be 'LS' or similar, written over a faint circular background.

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