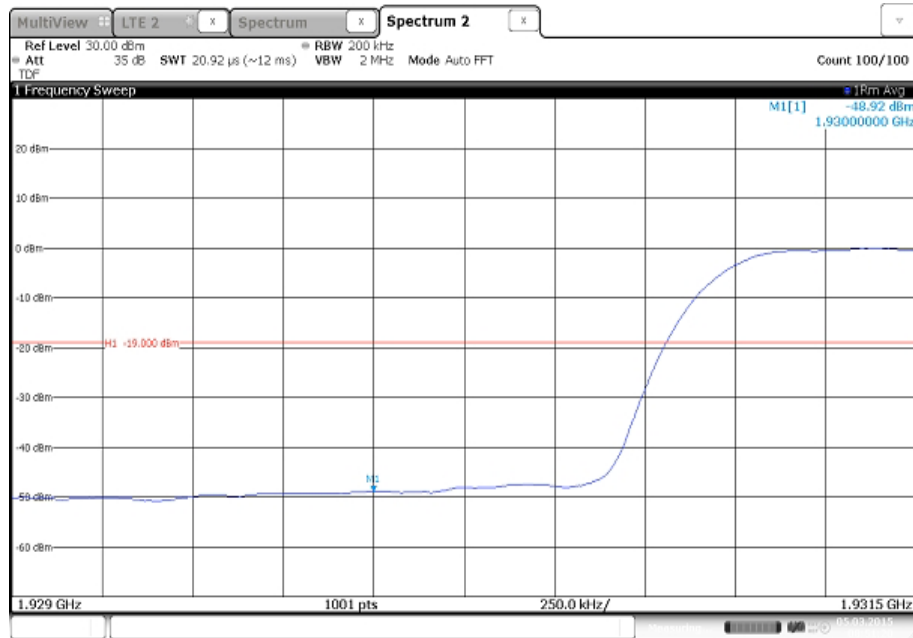
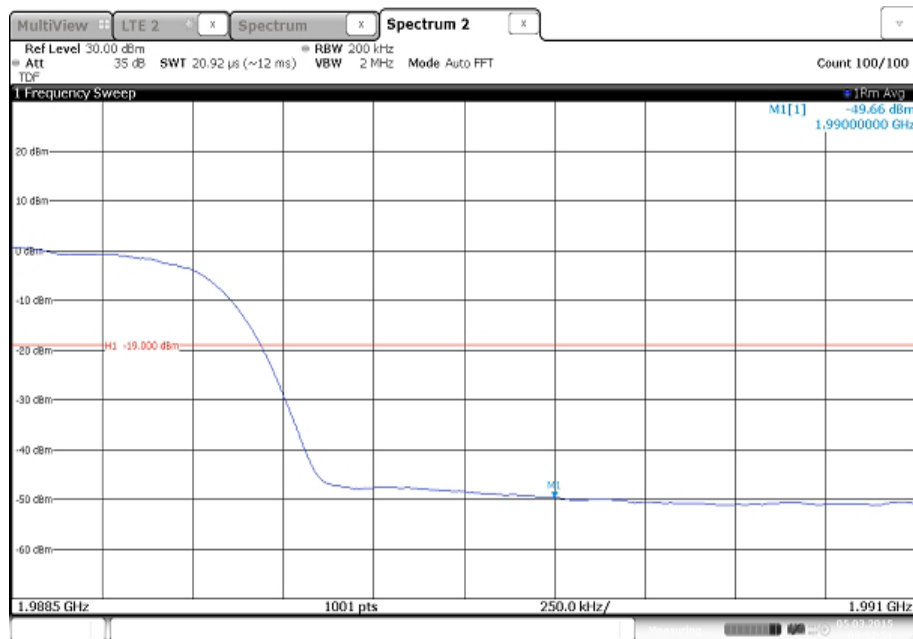


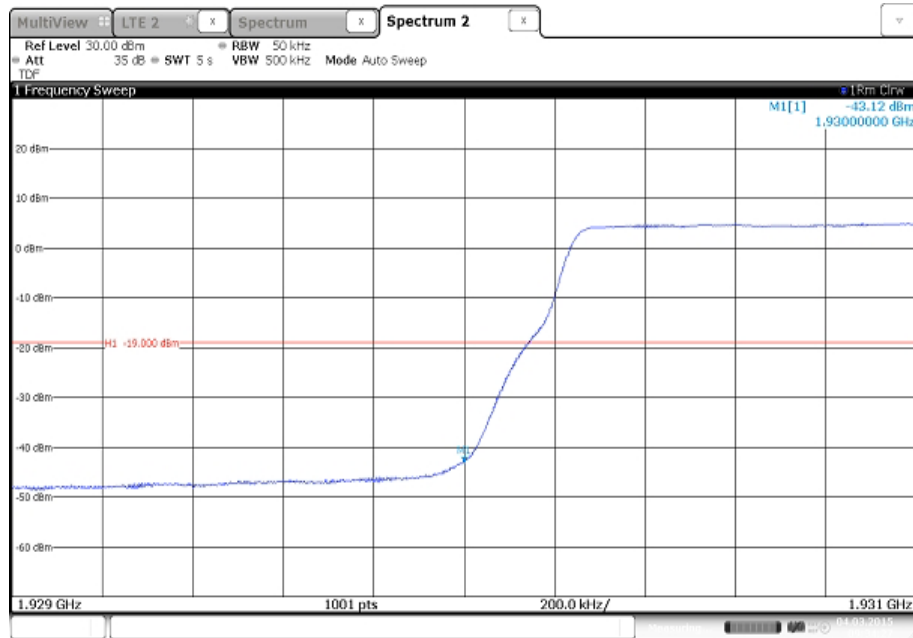
Antenna C - Modulation 16QAM - Carrier Bandwidth 20.0 MHz - Channel Position B



Antenna C - Modulation 16QAM - Carrier Bandwidth 20.0 MHz - Channel Position T

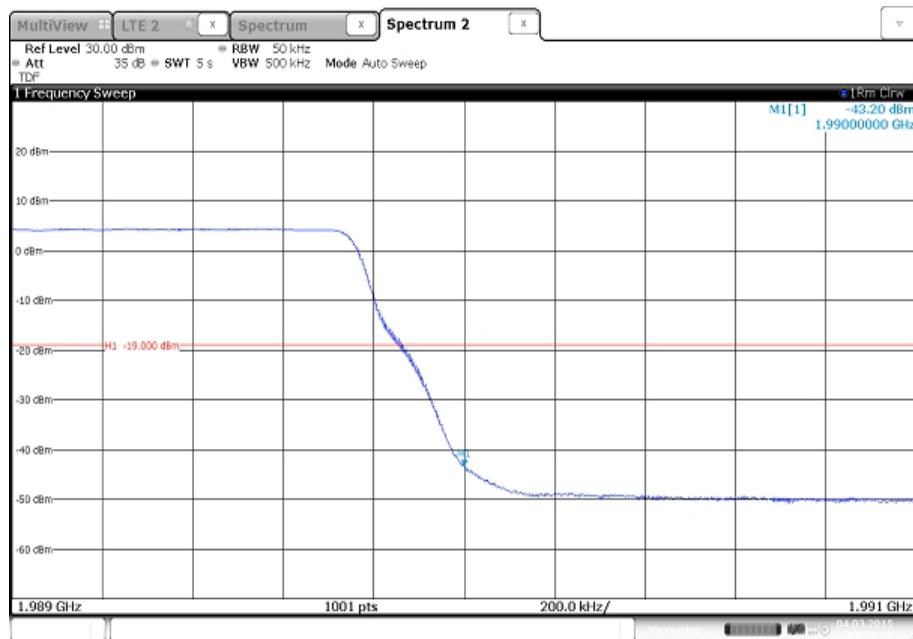


Antenna C - Modulation 64QAM - Carrier Bandwidth 5.0 MHz - Channel Position B



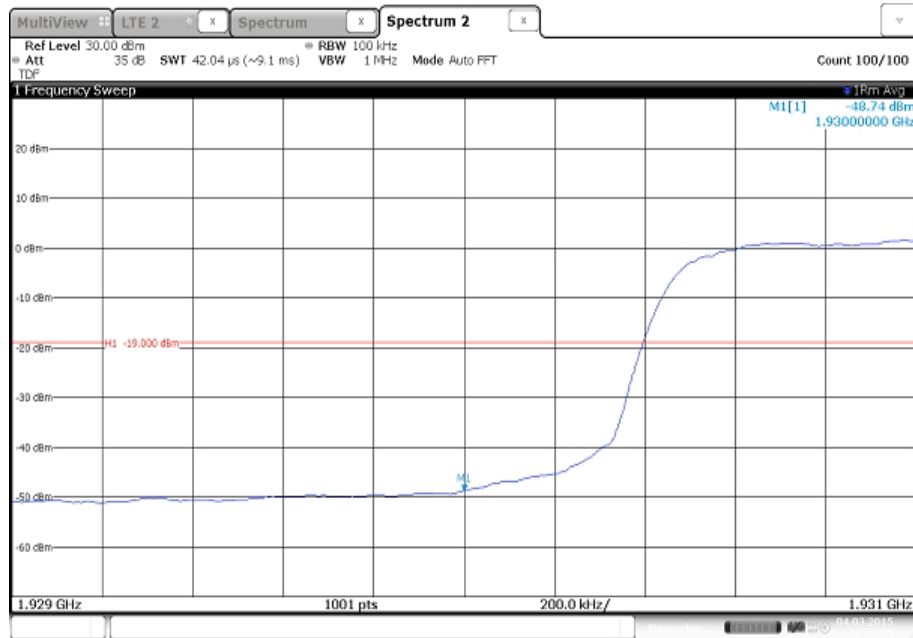
Date: 4 MAR 2015 09:34:27

Antenna C - Modulation 64QAM - Carrier Bandwidth 5.0 MHz - Channel Position T

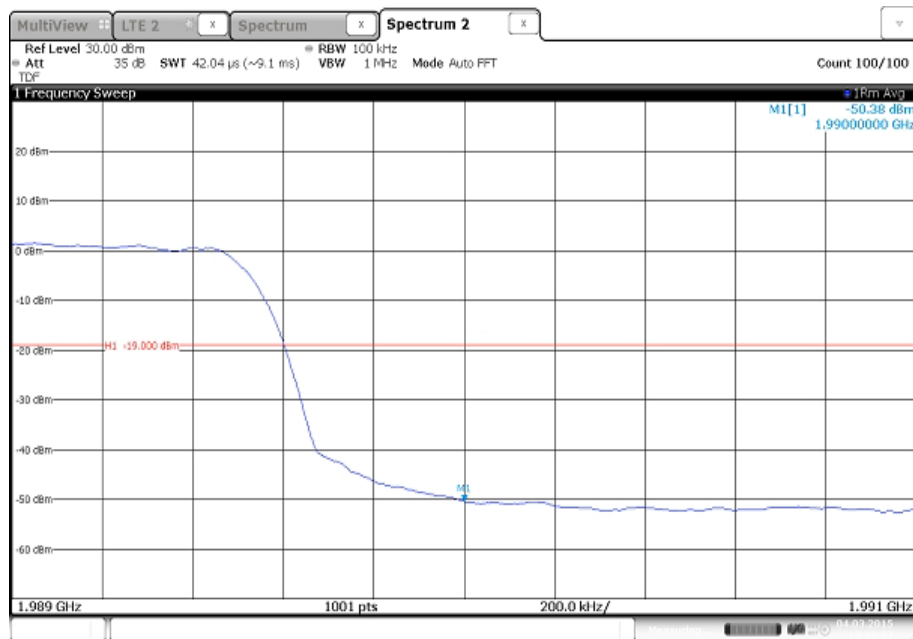


Date: 4 MAR 2015 09:37:22

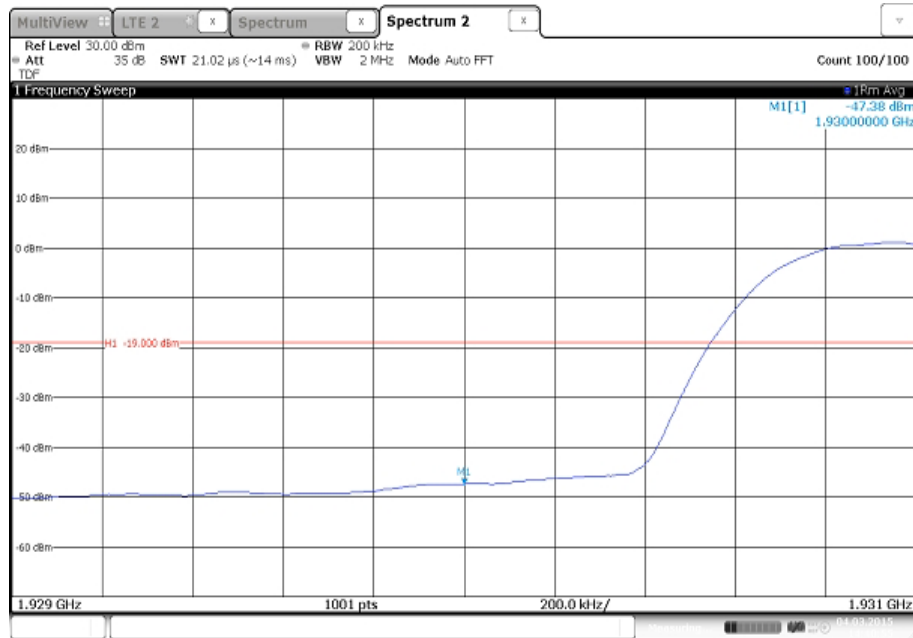
Antenna C - Modulation 64QAM - Carrier Bandwidth 10.0 MHz - Channel Position B



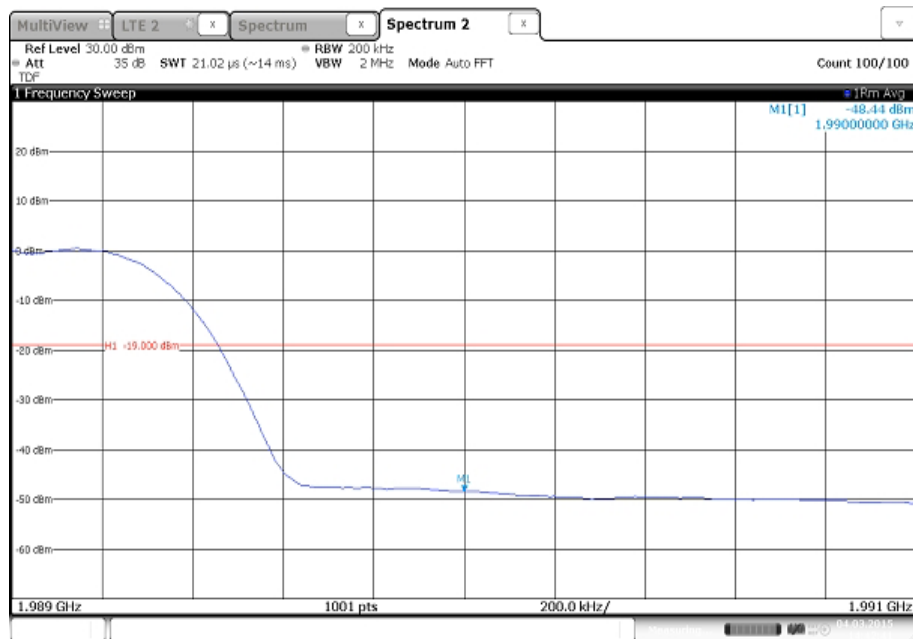
Antenna C - Modulation 64QAM - Carrier Bandwidth 10.0 MHz - Channel Position T



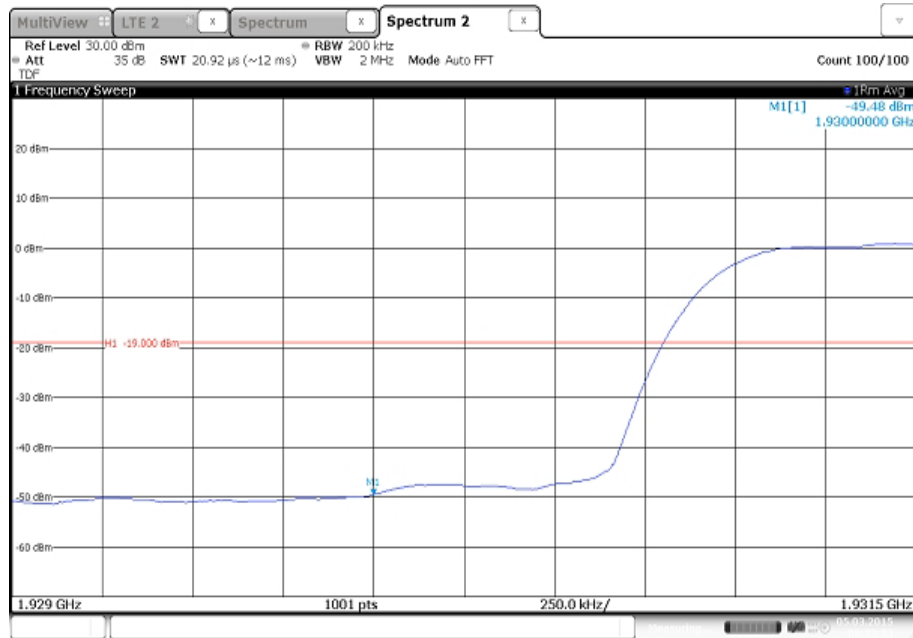
Antenna C - Modulation 64QAM - Carrier Bandwidth 15.0 MHz - Channel Position B



Antenna C - Modulation 64QAM - Carrier Bandwidth 15.0 MHz - Channel Position T

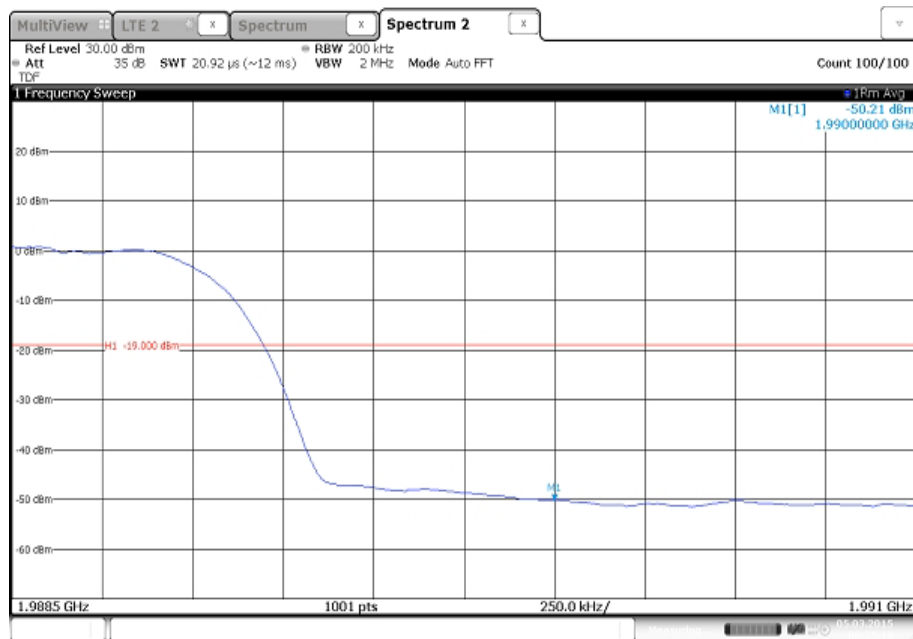


Antenna C - Modulation 64QAM - Carrier Bandwidth 20.0 MHz - Channel Position B



Date: 5 MAR 2015 08:33:33

Antenna C - Modulation 64QAM - Carrier Bandwidth 20.0 MHz - Channel Position T



Date: 5 MAR 2015 08:35:18

Limit	-19 dBm
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2.4 TRANSMITTER SPURIOUS EMISSIONS

2.4.1 Specification Reference

FCC CFR 47 Part 2, Clause 2.1051
FCC CFR 47 Part 24, Clause 24.238(a)
Industry Canada RSS-133, Clause 6.5

2.4.2 Date of Test and Modification State

16 March 2015 - Modification State 0

2.4.3 Test Equipment Used

The major items of test equipment used for the above tests are identified in Section 3.1.

2.4.4 Environmental Conditions

Ambient Temperature	25.8°C
Relative Humidity	22.2%

2.4.5 Test Method

The EUT was connected to a Spectrum Analyser and a Network Analyser was used to calibrate the path loss between the EUT and the Spectrum Analyser. The measured path losses were entered as a transducer factor in the Spectrum Analyser. Over the measured ranges, the RBW was set to 1MHz with a VBW of 3MHz. All measurement results were made with a Peak detector and the trace set to Max Hold.

The test limits were reduced from the specification limit of $43+10\log(P)$ by a factor of $10\log(4)$ in accordance with KDB 662911 D01 v02r01 to cover 4 Port MIMO configurations. This equated to a limit of -19dBm, (worst case).

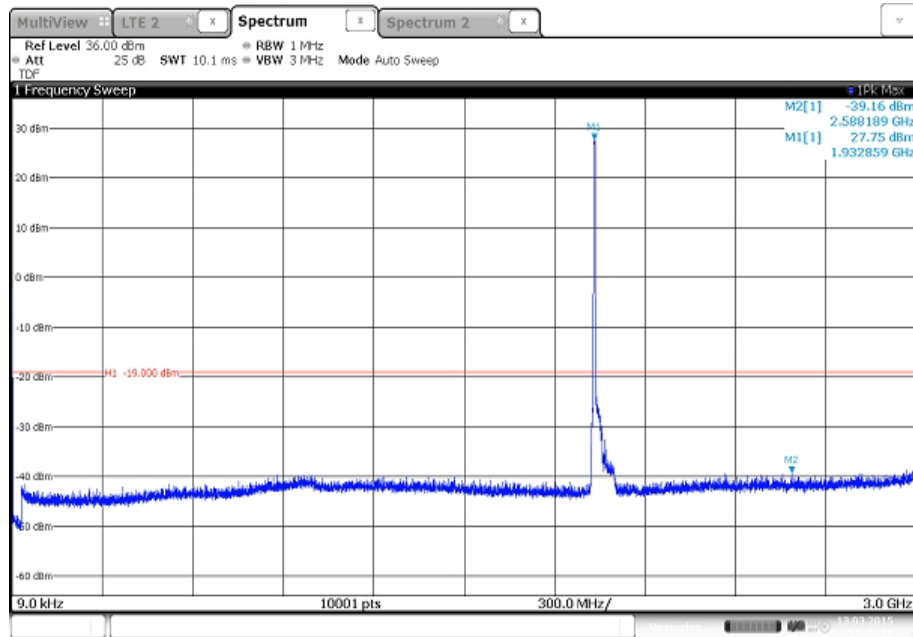
Testing was performed on RF antenna port B. Limited complementary measurements were done at the other antenna connectors to verify identical performance for all transmitter chains in MIMO mode.

2.4.6 Test Results

Configuration A

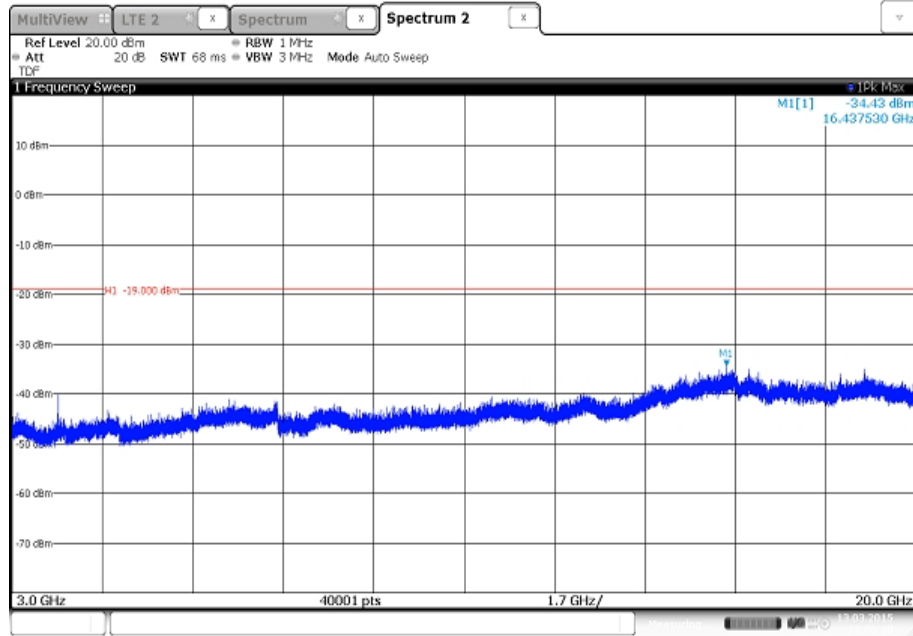
Maximum Output Power 24 dBm

Antenna B - Modulation QPSK - Carrier Bandwidth 5.0 MHz - Channel Position B - Band 1 - Range 0.009 to 3000 MHz



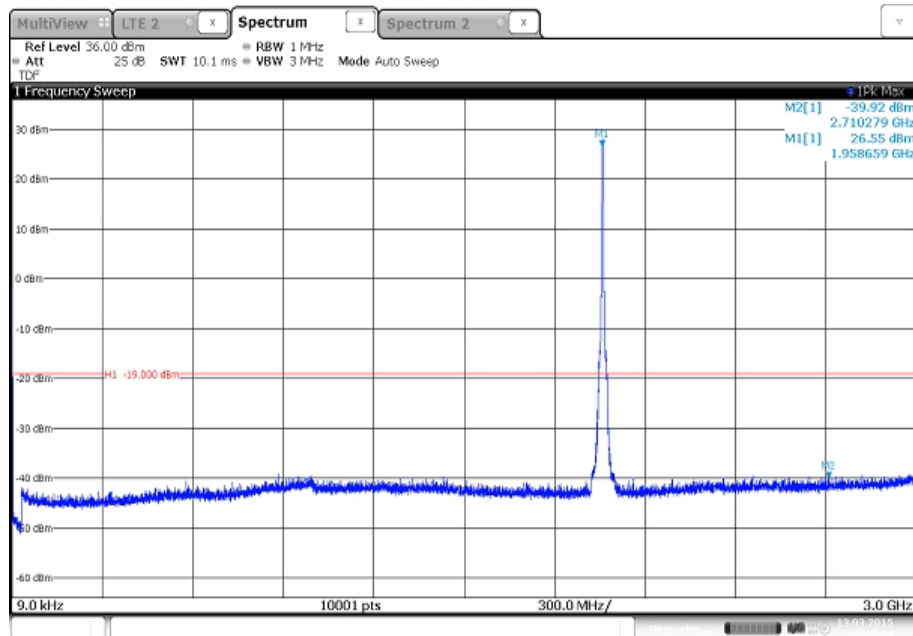
Date: 13 MAR 2015 11:47:53

Antenna B - Modulation QPSK - Carrier Bandwidth 5.0 MHz - Channel Position B - Band 2 - Range 3000 to 20000 MHz



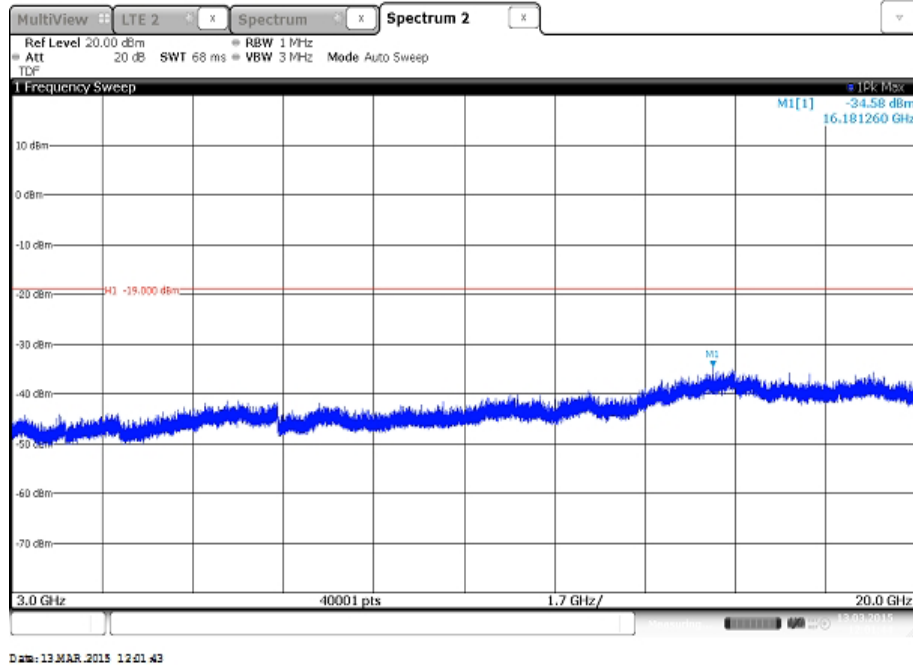
Date: 13 MAR 2015 12:00:47

Antenna B - Modulation QPSK - Carrier Bandwidth 5.0 MHz - Channel Position M - Band 1 - Range 0.009 to 3000 MHz

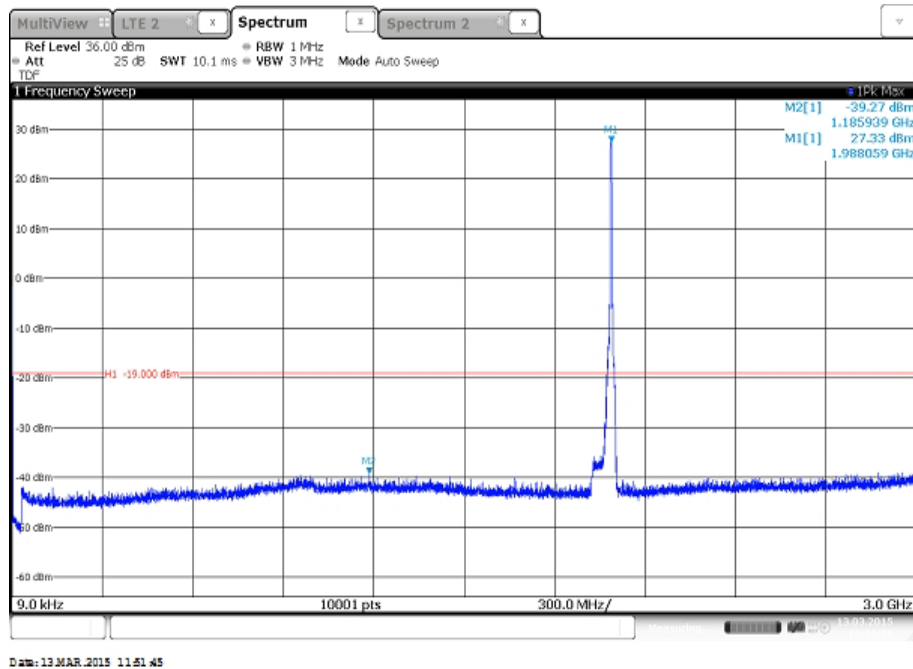


Date: 13 MAR 2015 11:49:05

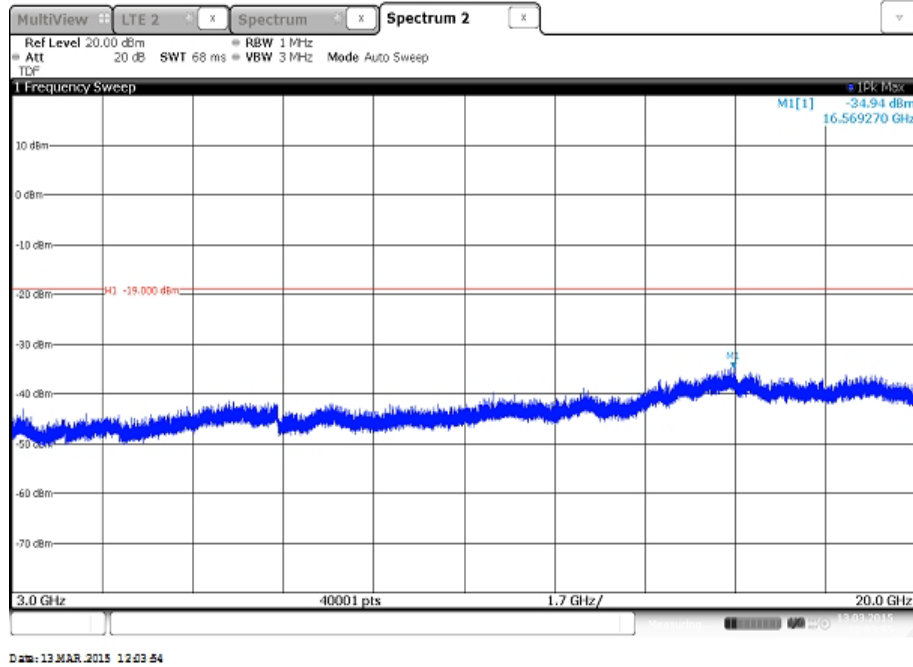
Antenna B - Modulation QPSK - Carrier Bandwidth 5.0 MHz - Channel Position M - Band 2 - Range 3000 to 20000 MHz



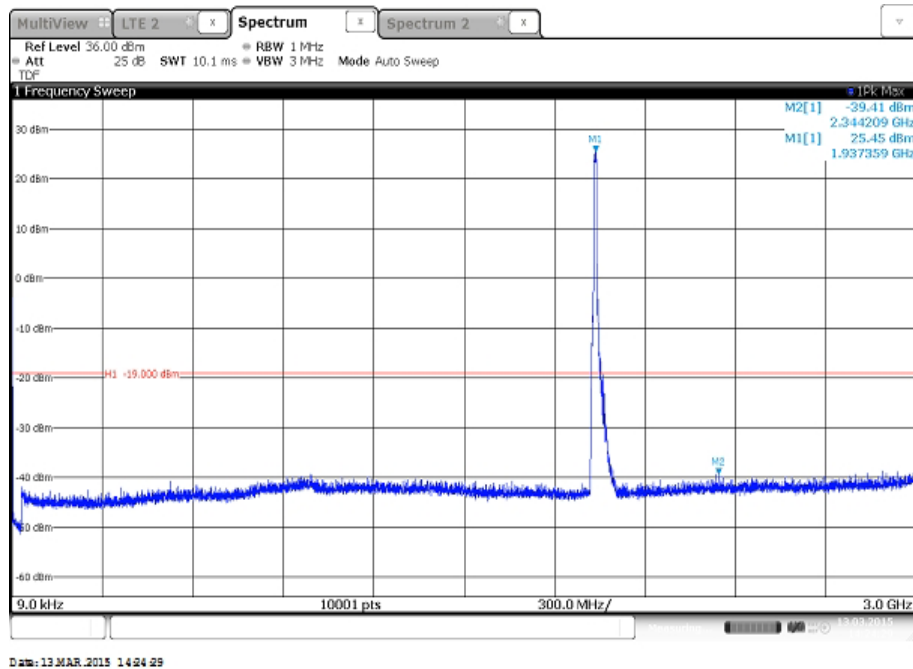
Antenna B - Modulation QPSK - Carrier Bandwidth 5.0 MHz - Channel Position T - Band 1 - Range 0.009 to 3000 MHz



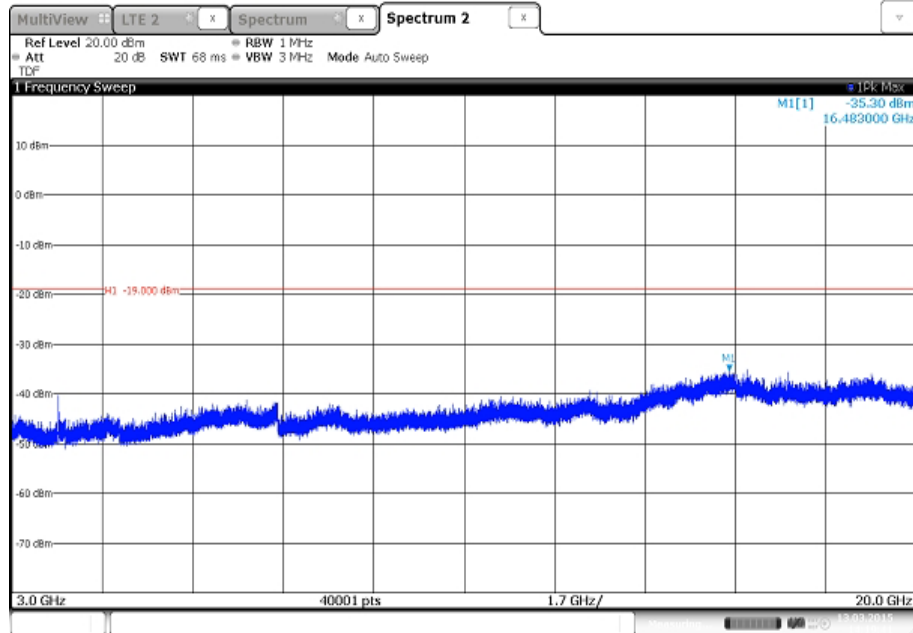
Antenna B - Modulation QPSK - Carrier Bandwidth 5.0 MHz - Channel Position T - Band 2 - Range 3000 to 20000 MHz



Antenna B - Modulation QPSK - Carrier Bandwidth 10.0 MHz - Channel Position B - Band 1 - Range 0.009 to 3000 MHz

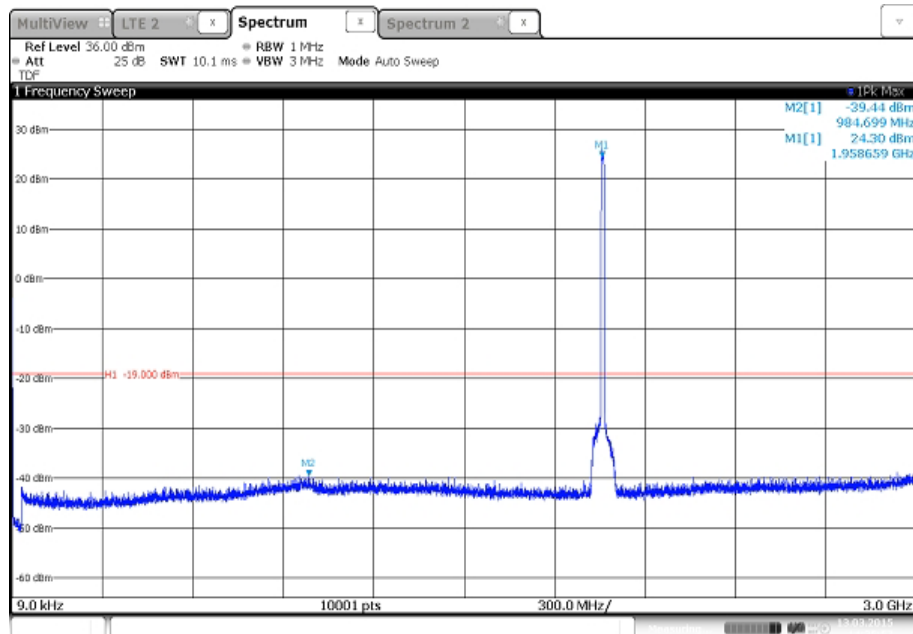


Antenna B - Modulation QPSK - Carrier Bandwidth 10.0 MHz - Channel Position B - Band 2 - Range 3000 to 20000 MHz



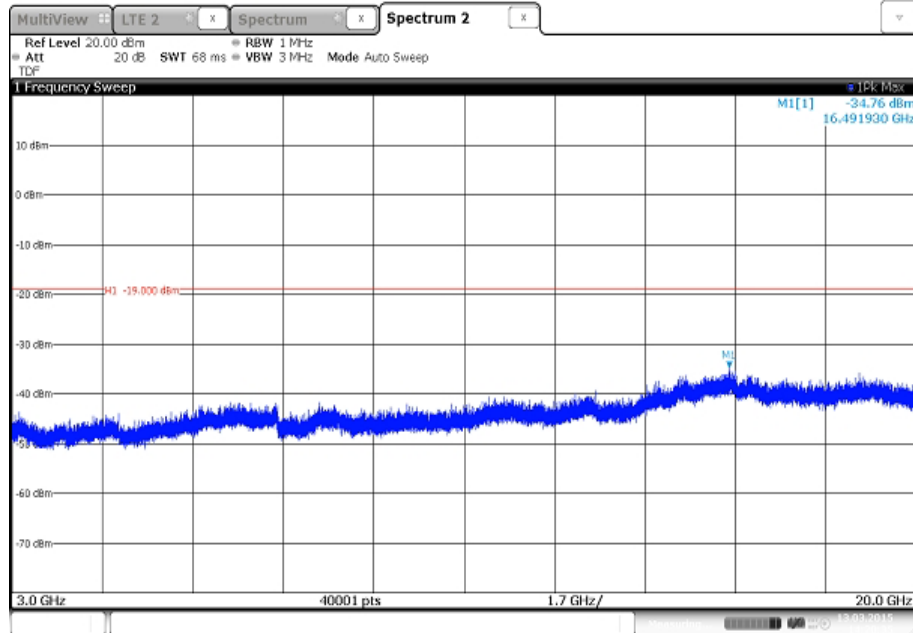
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Antenna B - Modulation QPSK - Carrier Bandwidth 10.0 MHz - Channel Position M - Band 1 - Range 0.009 to 3000 MHz



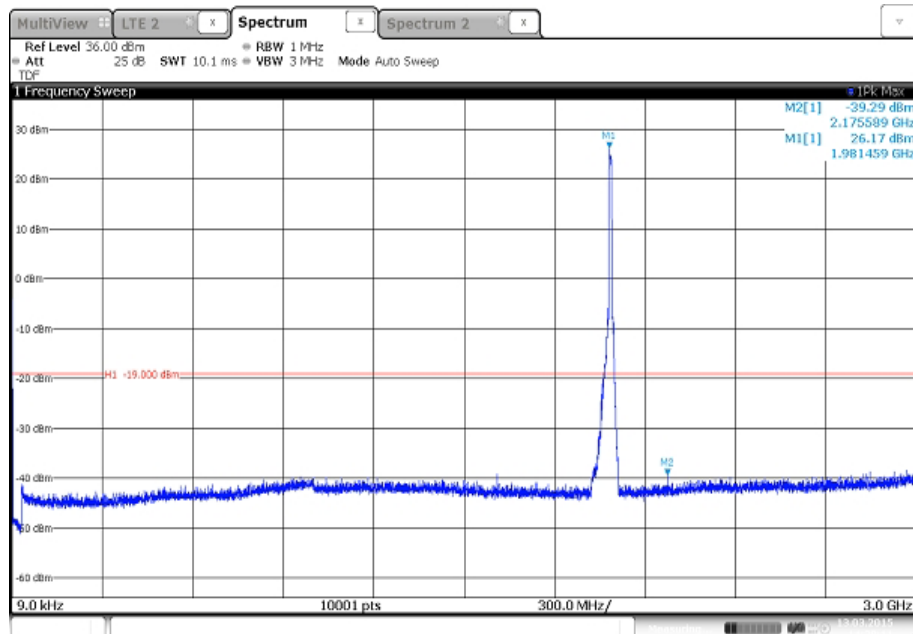
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Antenna B - Modulation QPSK - Carrier Bandwidth 10.0 MHz - Channel Position M - Band 2 - Range 3000 to 20000 MHz



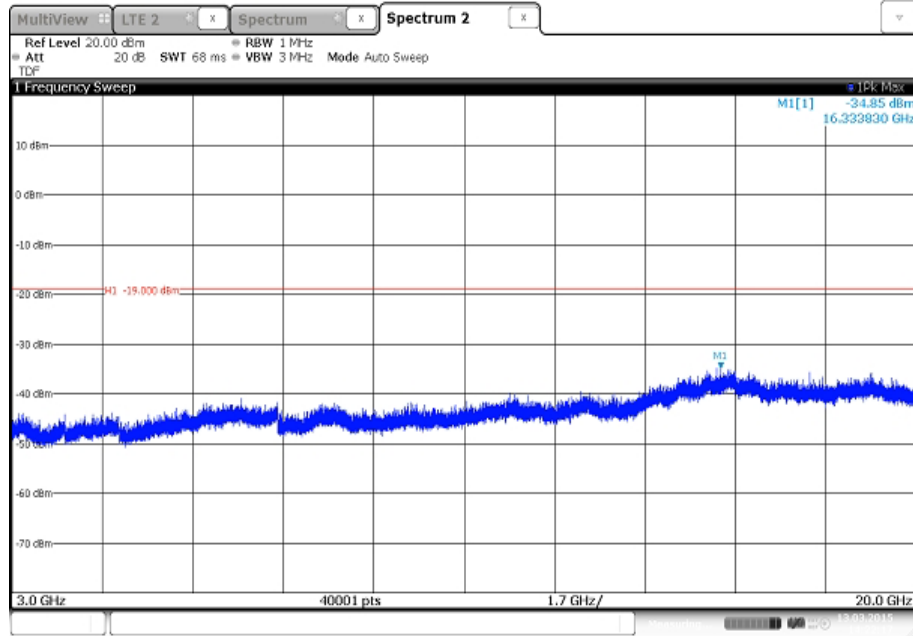
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Antenna B - Modulation QPSK - Carrier Bandwidth 10.0 MHz - Channel Position T - Band 1 - Range 0.009 to 3000 MHz



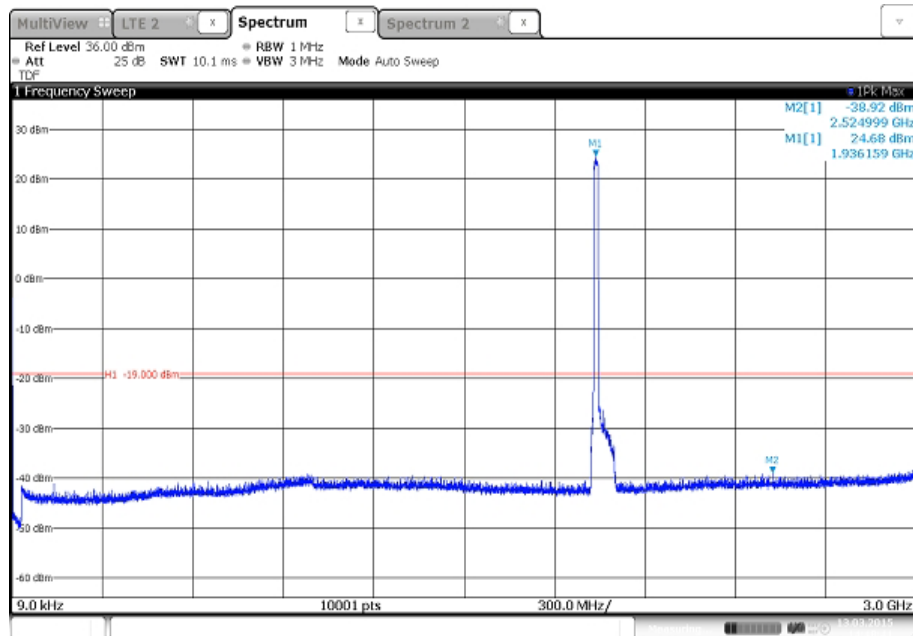
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Antenna B - Modulation QPSK - Carrier Bandwidth 10.0 MHz - Channel Position T - Band 2 - Range 3000 to 20000 MHz



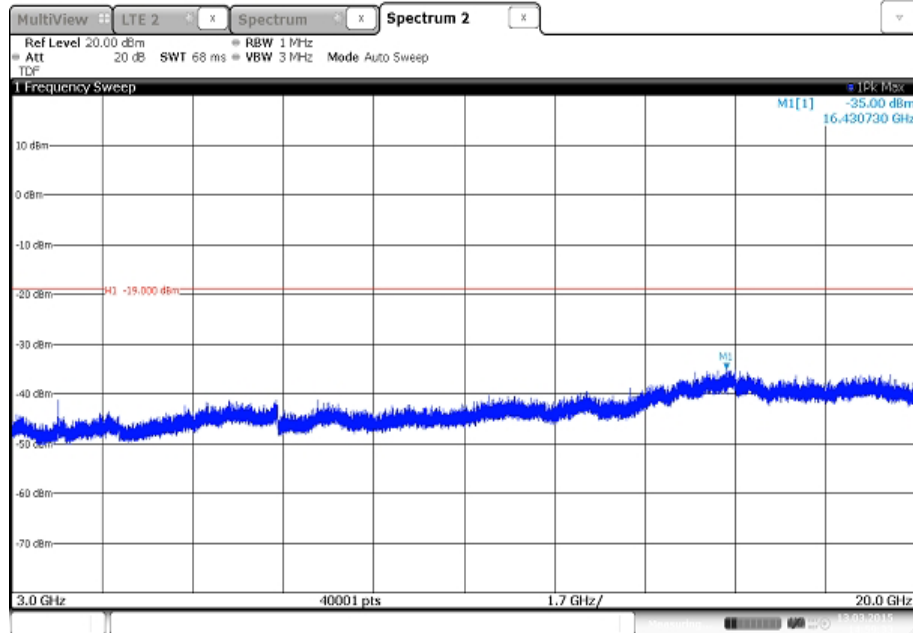
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Antenna B - Modulation QPSK - Carrier Bandwidth 15.0 MHz - Channel Position B - Band 1 - Range 0.009 to 3000 MHz



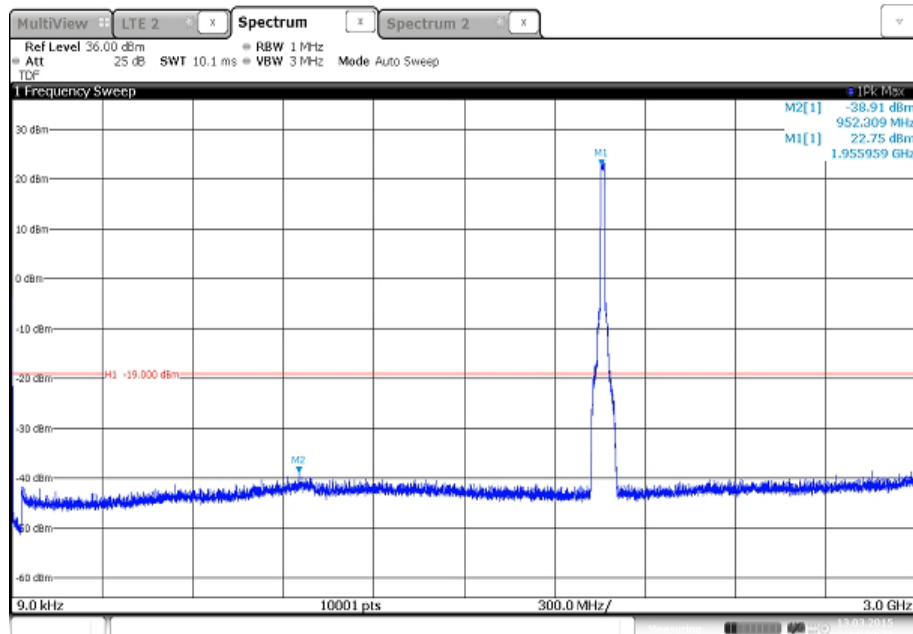
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Antenna B - Modulation QPSK - Carrier Bandwidth 15.0 MHz - Channel Position B - Band 2 - Range 3000 to 20000 MHz



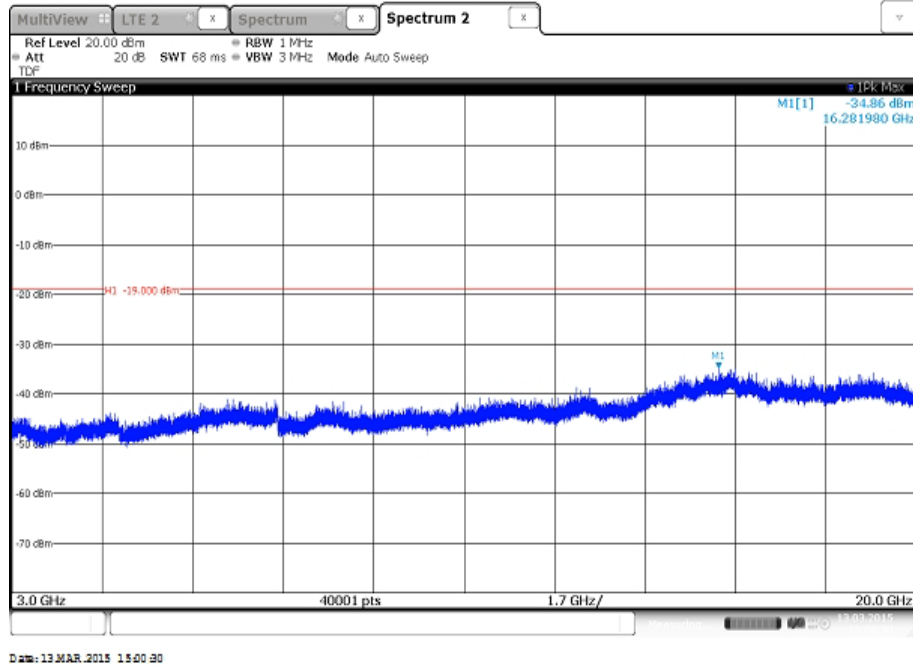
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Antenna B - Modulation QPSK - Carrier Bandwidth 15.0 MHz - Channel Position M - Band 1 - Range 0.009 to 3000 MHz

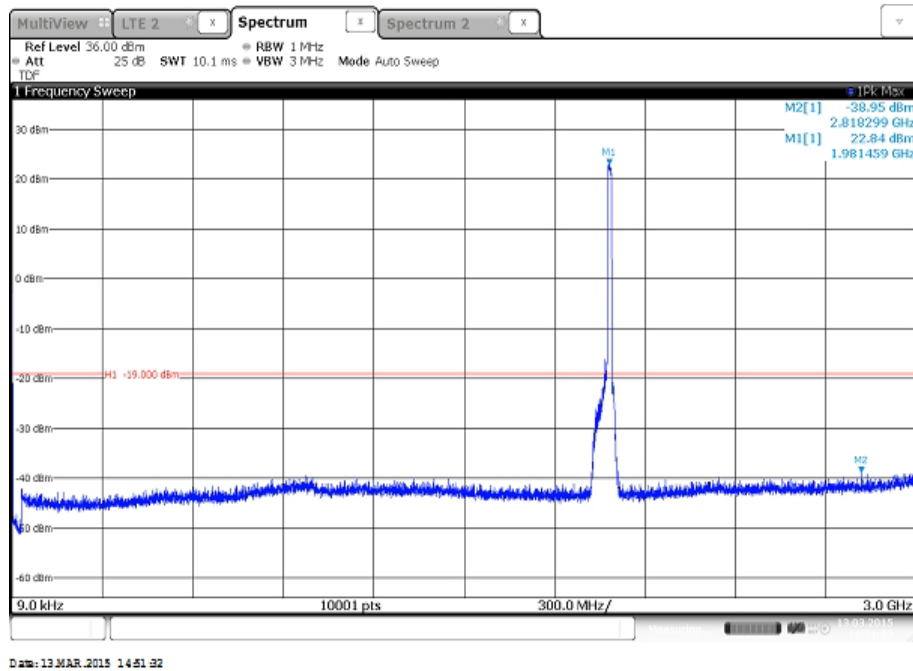


Date: 13 MAR 2015 14:49:34

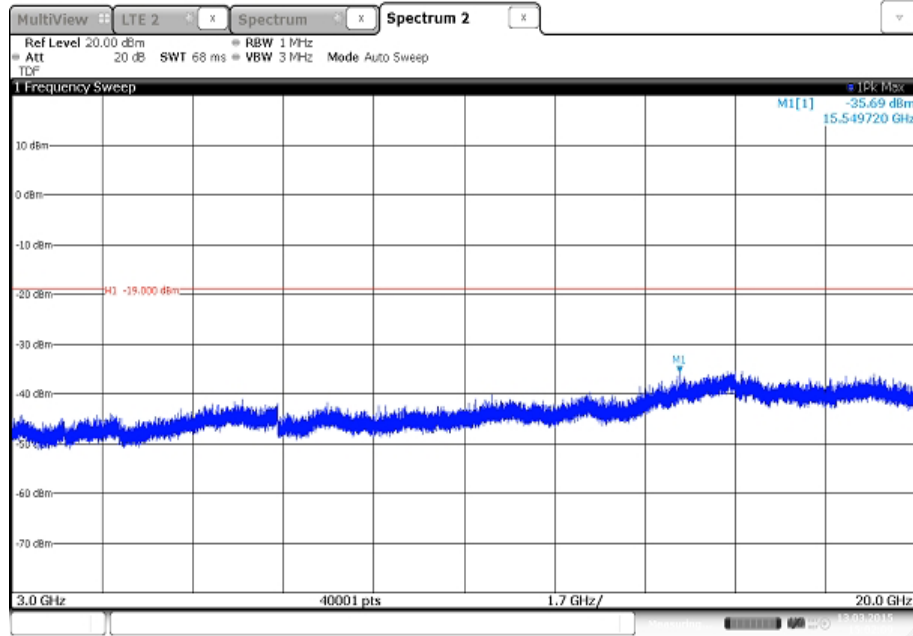
Antenna B - Modulation QPSK - Carrier Bandwidth 15.0 MHz - Channel Position M - Band 2 - Range 3000 to 20000 MHz



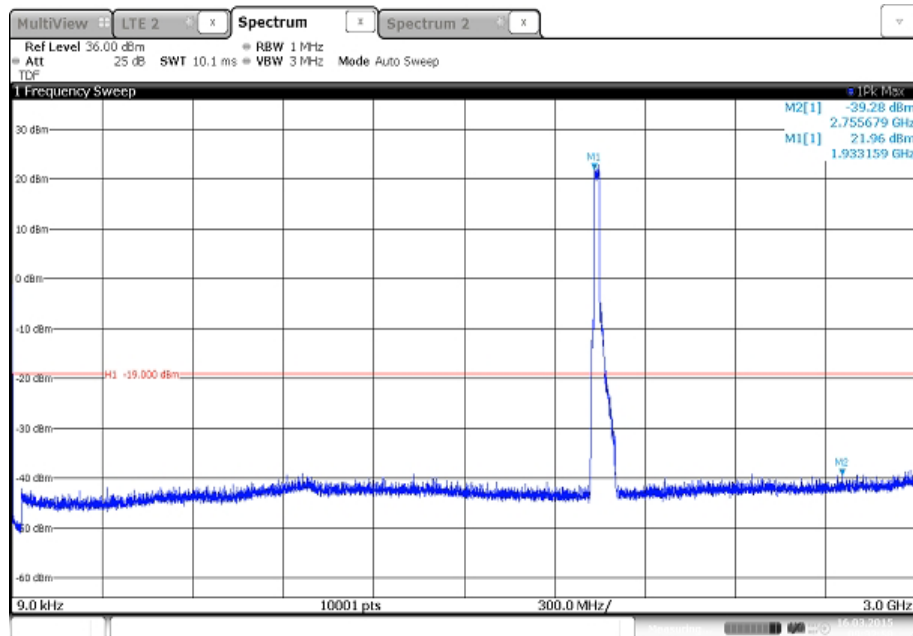
Antenna B - Modulation QPSK - Carrier Bandwidth 15.0 MHz - Channel Position T - Band 1 - Range 0.009 to 3000 MHz



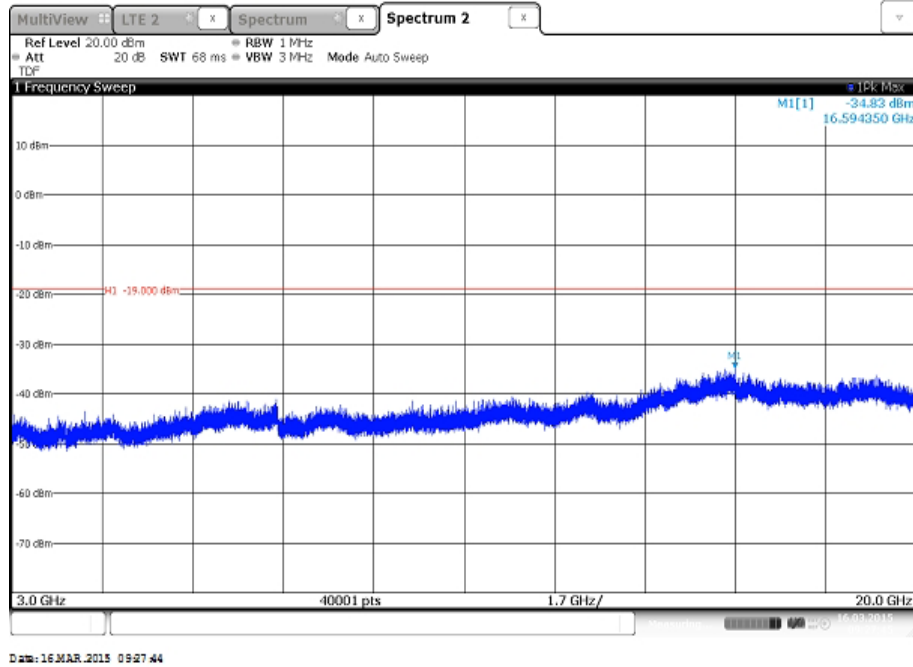
Antenna B - Modulation QPSK - Carrier Bandwidth 15.0 MHz - Channel Position T - Band 2 - Range 3000 to 20000 MHz



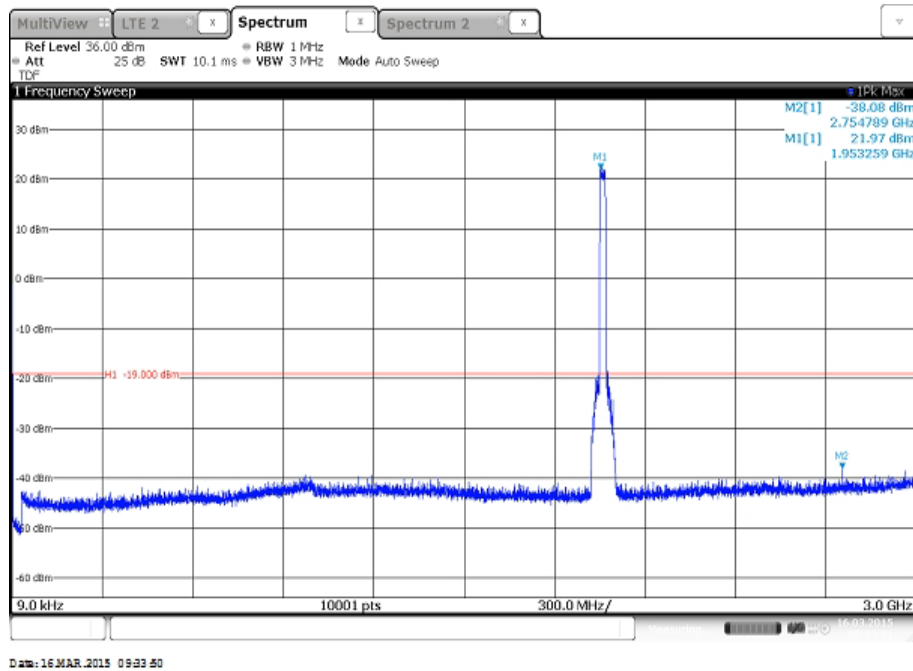
Antenna B - Modulation QPSK - Carrier Bandwidth 20.0 MHz - Channel Position B - Band 1 - Range 0.009 to 3000 MHz



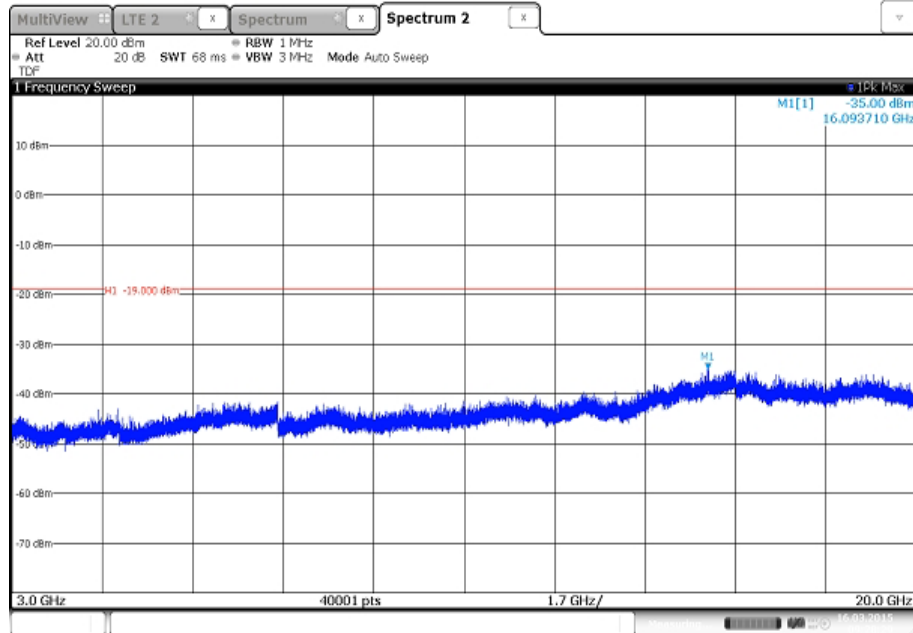
Antenna B - Modulation QPSK - Carrier Bandwidth 20.0 MHz - Channel Position B - Band 2 - Range 3000 to 20000 MHz



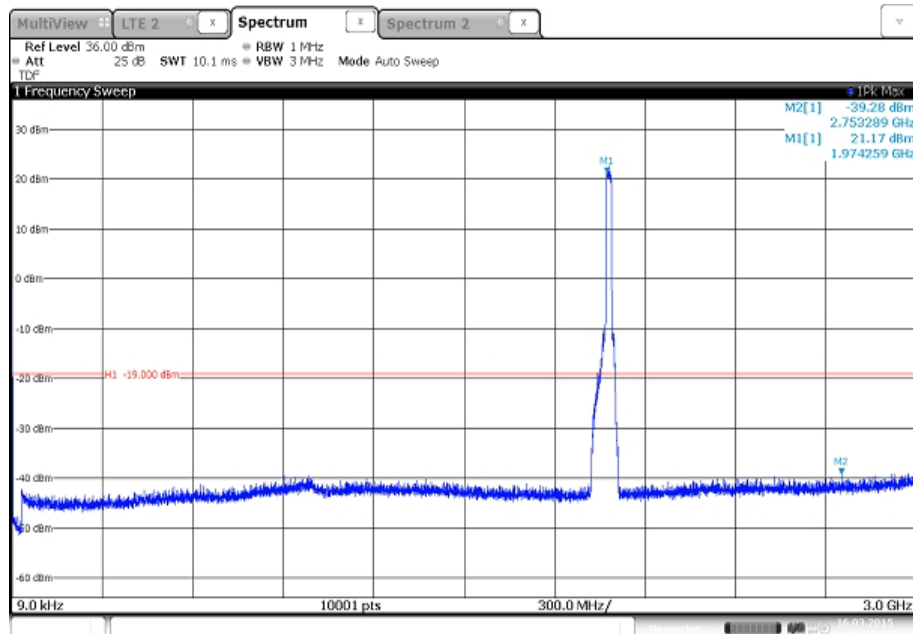
Antenna B - Modulation QPSK - Carrier Bandwidth 20.0 MHz - Channel Position M - Band 1 - Range 0.009 to 3000 MHz



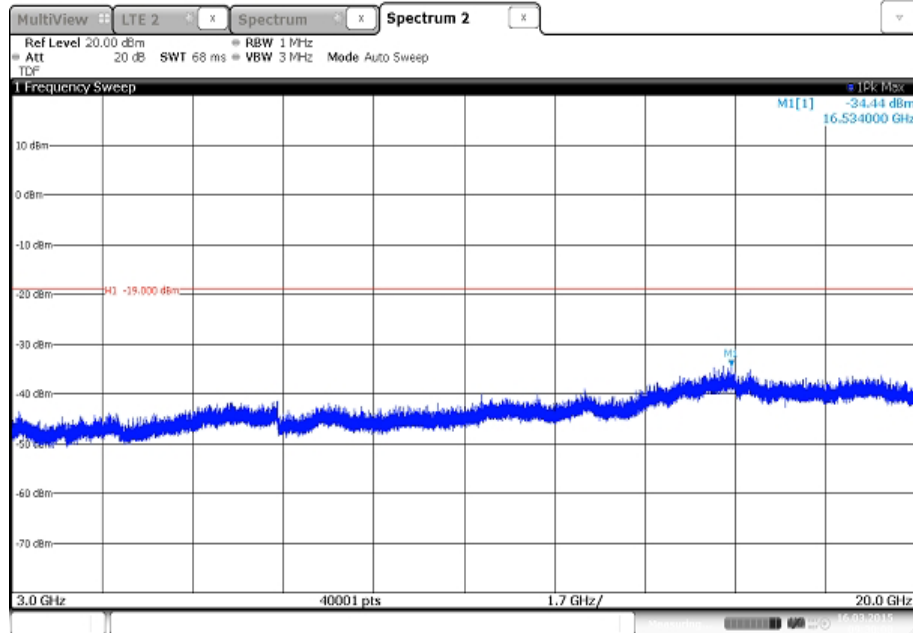
Antenna B - Modulation QPSK - Carrier Bandwidth 20.0 MHz - Channel Position M - Band 2 - Range 3000 to 20000 MHz



Antenna B - Modulation QPSK - Carrier Bandwidth 20.0 MHz - Channel Position T - Band 1 - Range 0.009 to 3000 MHz

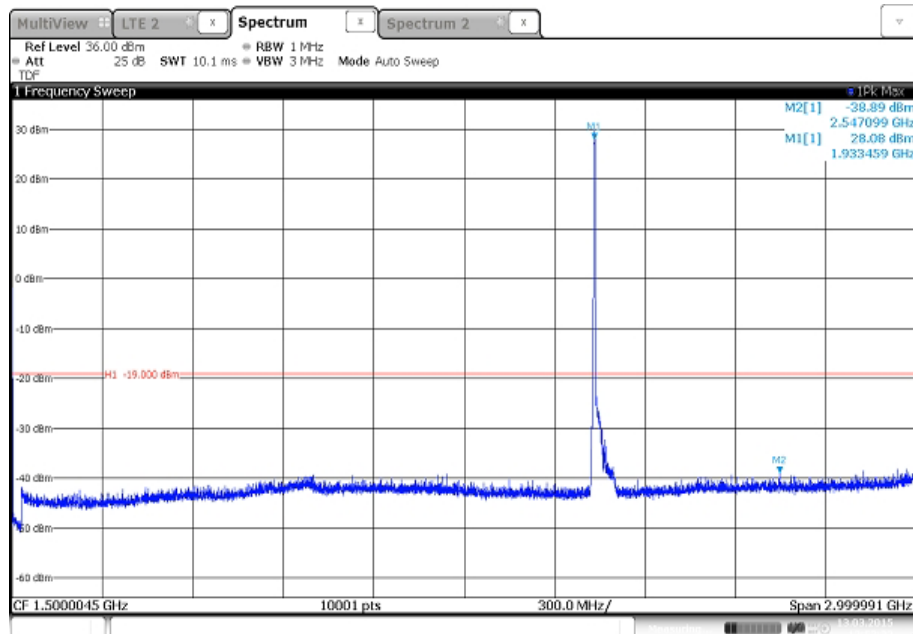


Antenna B - Modulation QPSK - Carrier Bandwidth 20.0 MHz - Channel Position T - Band 2 - Range 3000 to 20000 MHz



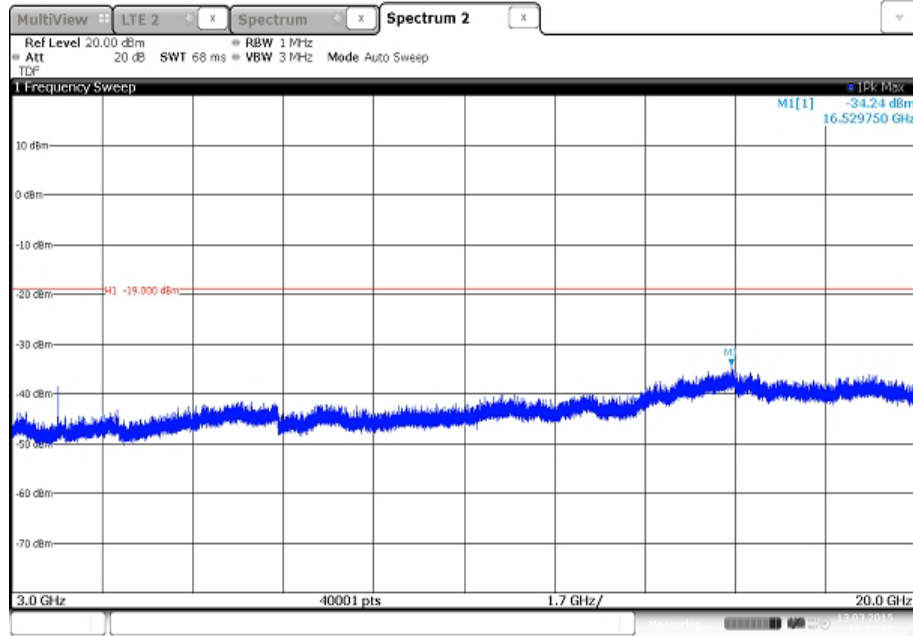
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Antenna B - Modulation 16QAM - Carrier Bandwidth 5.0 MHz - Channel Position B - Band 1 - Range 0.009 to 3000 MHz



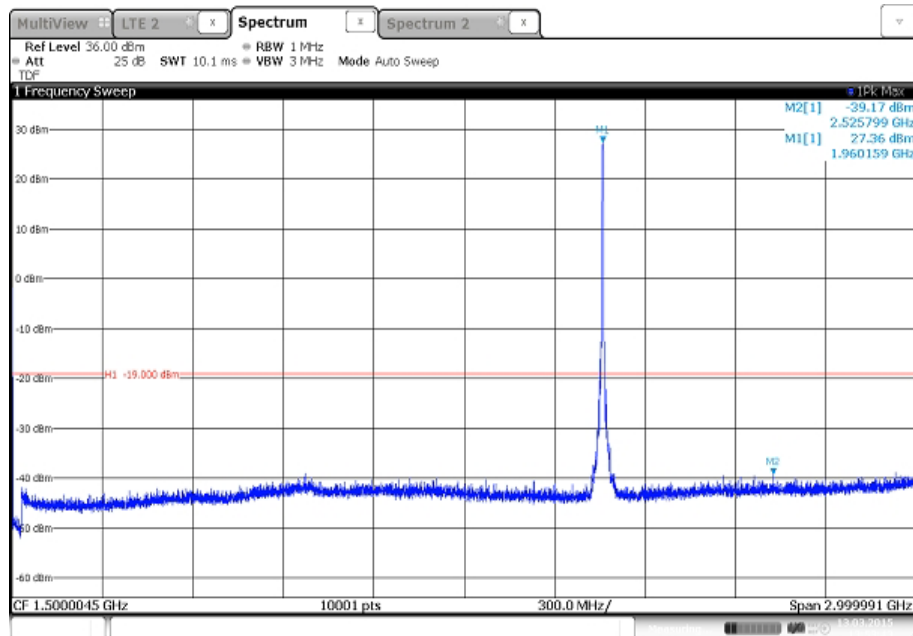
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Antenna B - Modulation 16QAM - Carrier Bandwidth 5.0 MHz - Channel Position B - Band 2 - Range 3000 to 20000 MHz



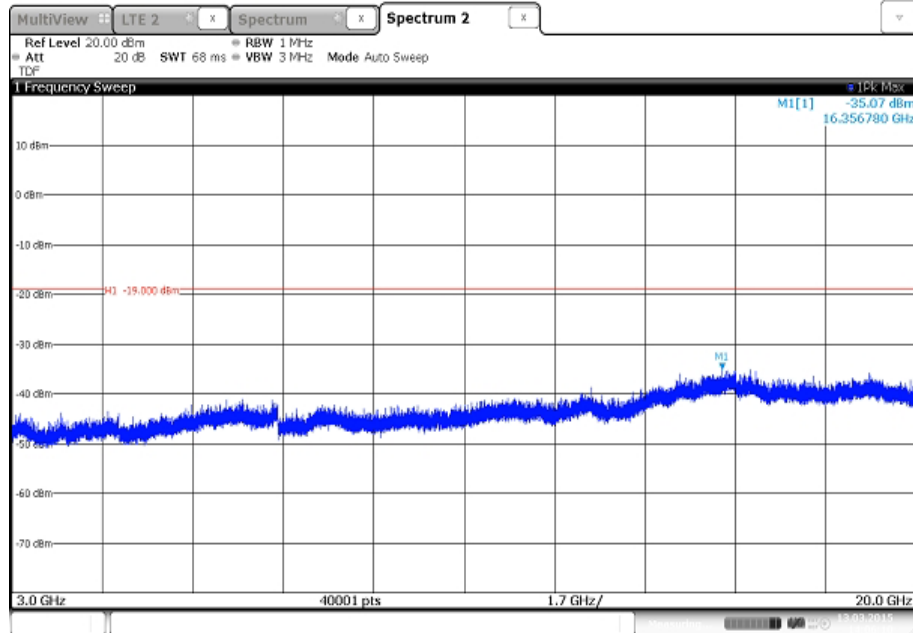
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Antenna B - Modulation 16QAM - Carrier Bandwidth 5.0 MHz - Channel Position M - Band 1 - Range 0.009 to 3000 MHz



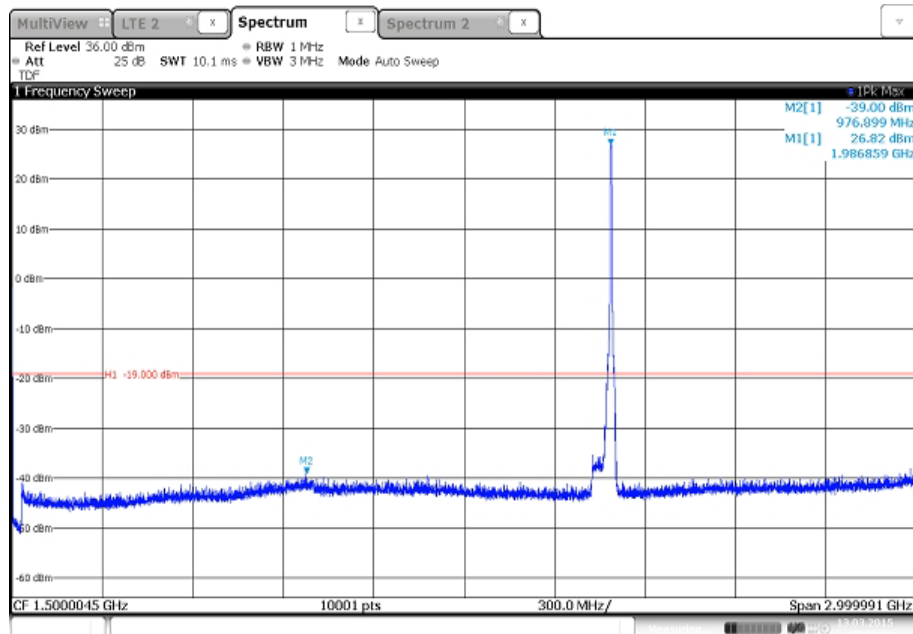
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Antenna B - Modulation 16QAM - Carrier Bandwidth 5.0 MHz - Channel Position M - Band 2 - Range 3000 to 20000 MHz



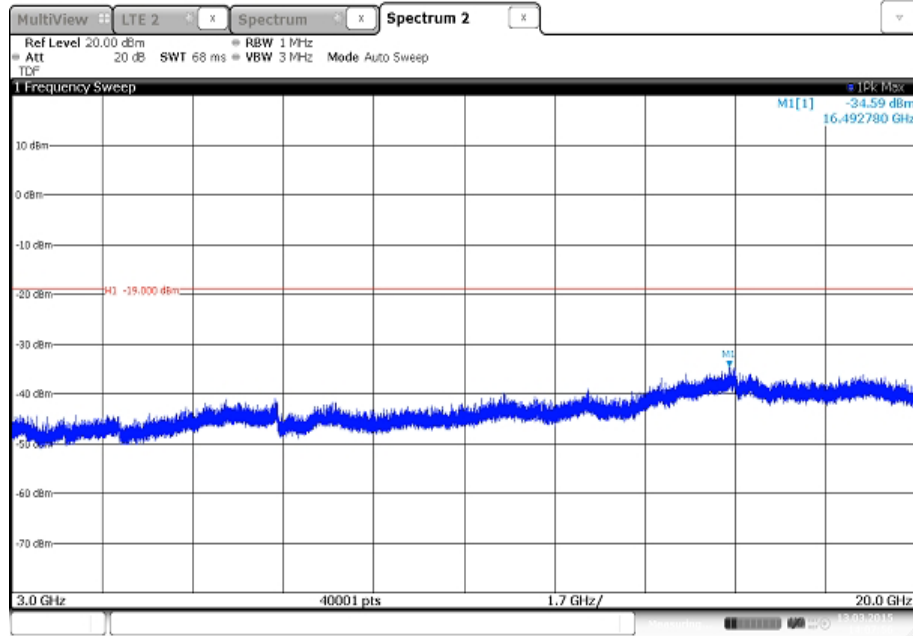
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Antenna B - Modulation 16QAM - Carrier Bandwidth 5.0 MHz - Channel Position T - Band 1 - Range 0.009 to 3000 MHz



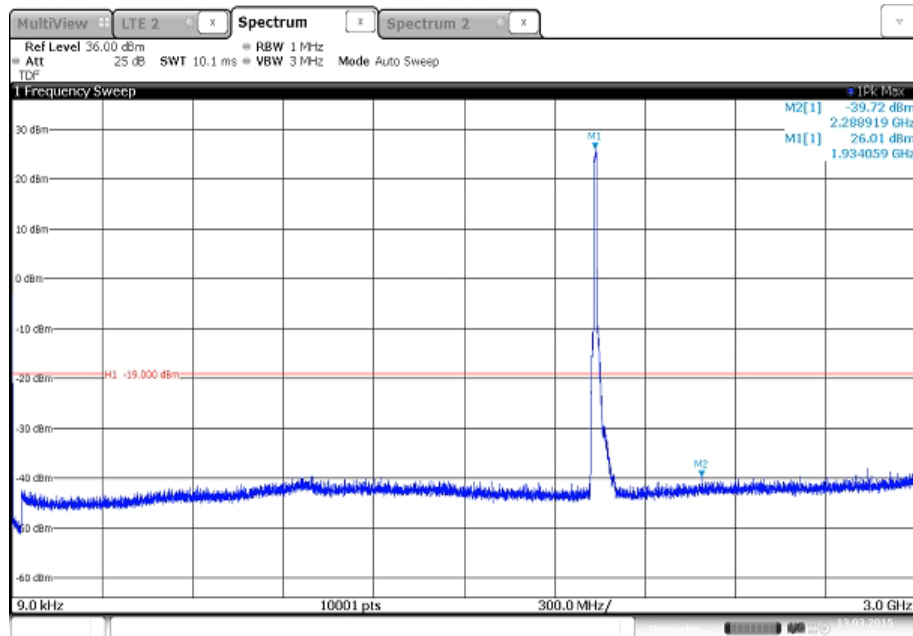
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Antenna B - Modulation 16QAM - Carrier Bandwidth 5.0 MHz - Channel Position T - Band 2 - Range 3000 to 20000 MHz



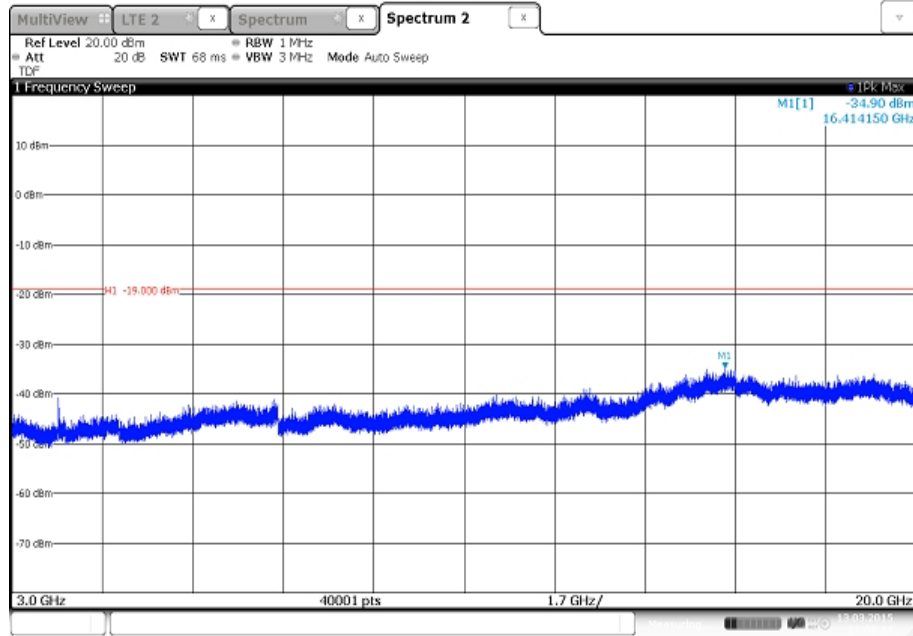
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Antenna B - Modulation 16QAM - Carrier Bandwidth 10.0 MHz - Channel Position B - Band 1 - Range 0.009 to 3000 MHz



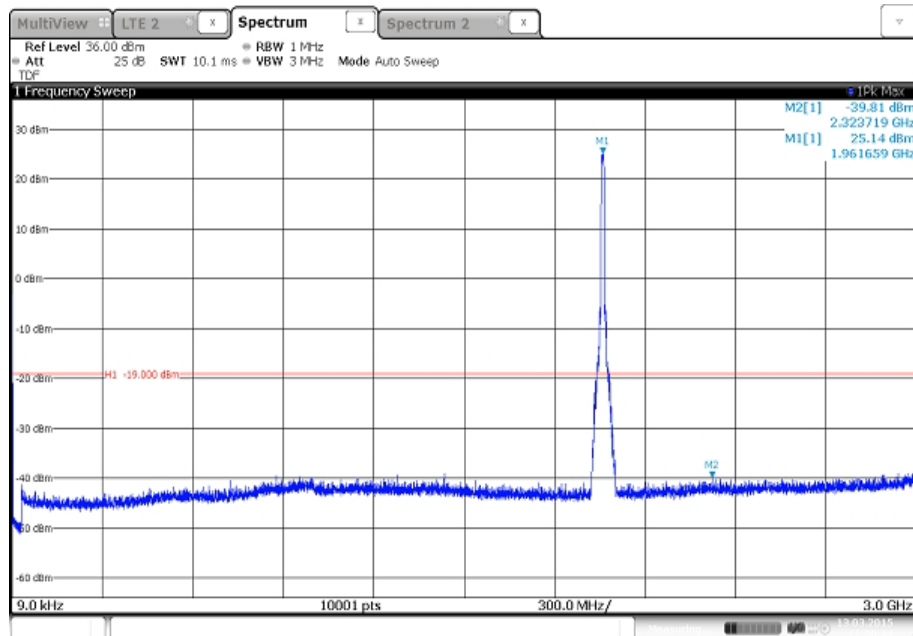
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Antenna B - Modulation 16QAM - Carrier Bandwidth 10.0 MHz - Channel Position B - Band 2 - Range 3000 to 20000 MHz



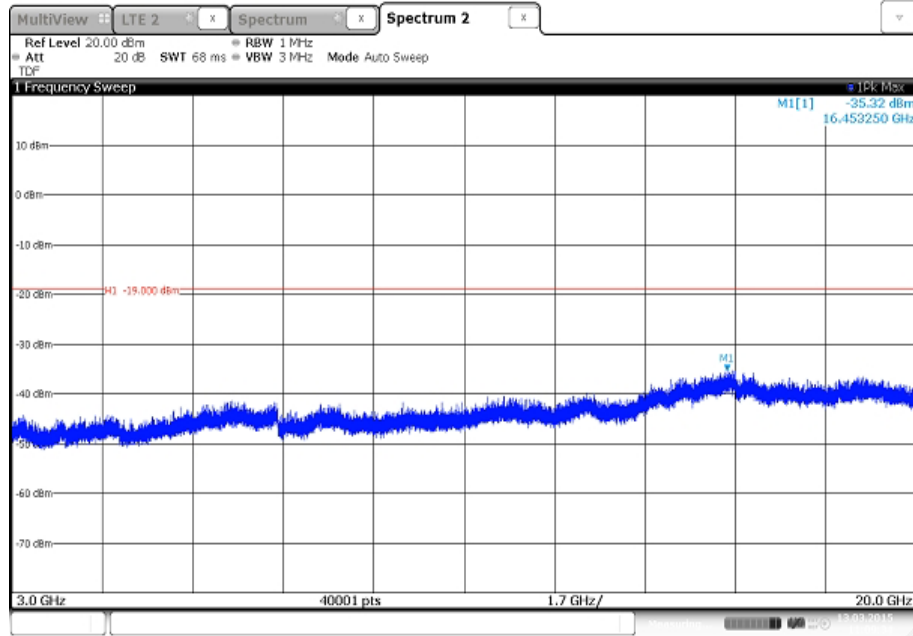
Date: 13.MAR.2015 11:08:43

Antenna B - Modulation 16QAM - Carrier Bandwidth 10.0 MHz - Channel Position M - Band 1 - Range 0.009 to 3000 MHz



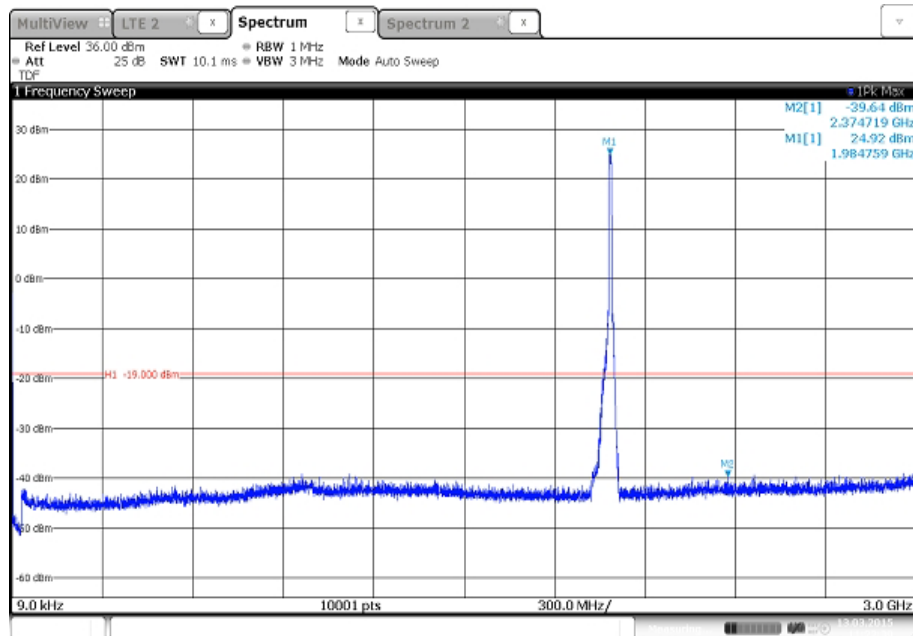
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Antenna B - Modulation 16QAM - Carrier Bandwidth 10.0 MHz - Channel Position M - Band 2 - Range 3000 to 20000 MHz



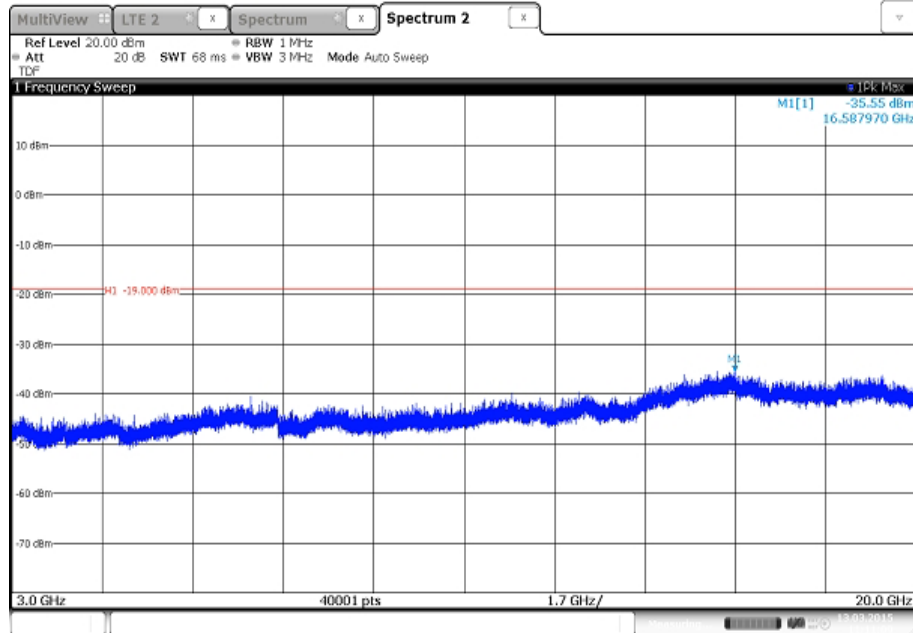
Date: 13 MAR 2015 11:09:35

Antenna B - Modulation 16QAM - Carrier Bandwidth 10.0 MHz - Channel Position T - Band 1 - Range 0.009 to 3000 MHz



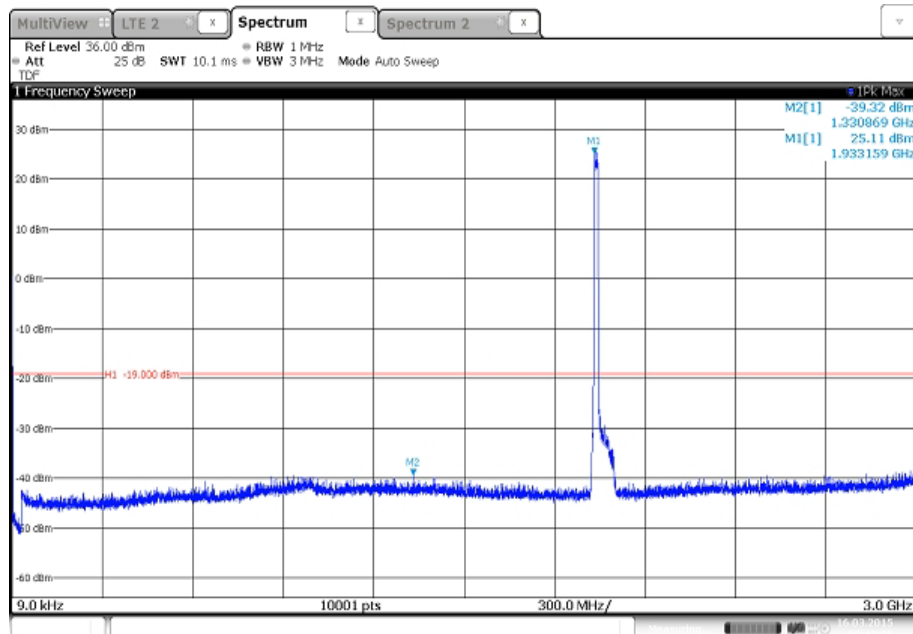
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Antenna B - Modulation 16QAM - Carrier Bandwidth 10.0 MHz - Channel Position T - Band 2 - Range 3000 to 20000 MHz



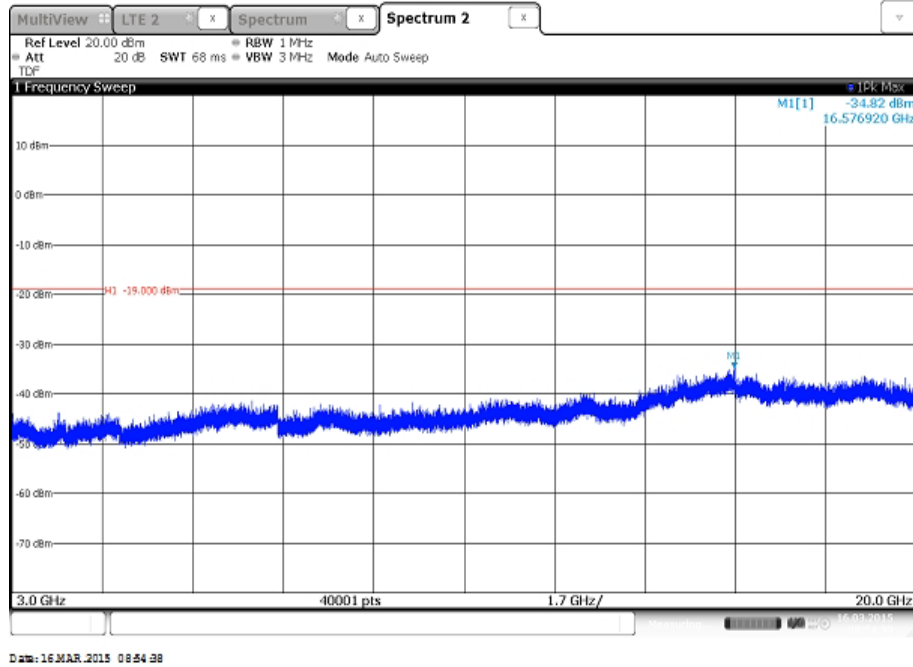
Date: 13 MAR 2015 11:11:08

Antenna B - Modulation 16QAM - Carrier Bandwidth 15.0 MHz - Channel Position B - Band 1 - Range 0.009 to 3000 MHz

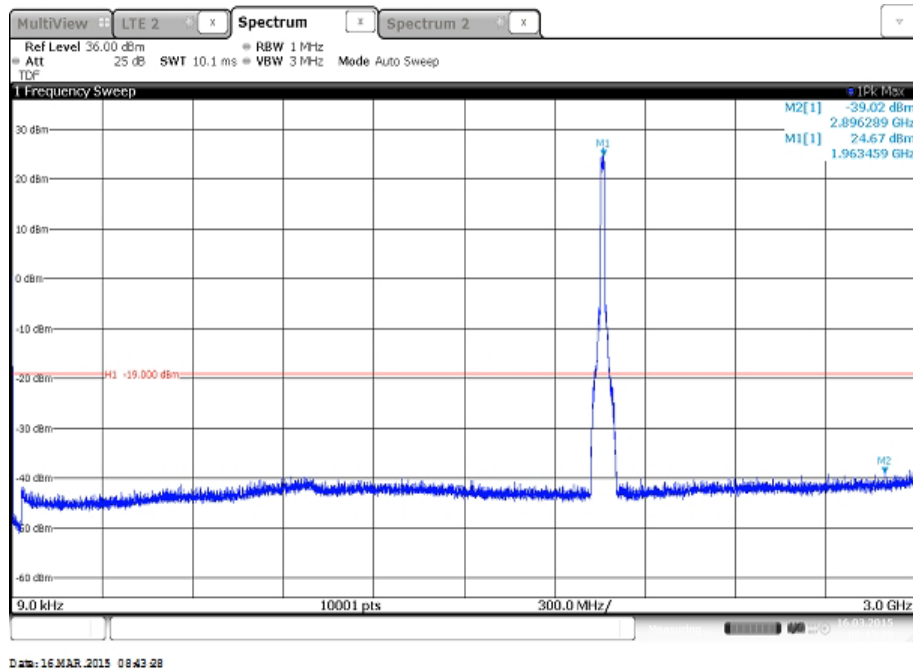


Date: 16 MAR 2015 08:42:25

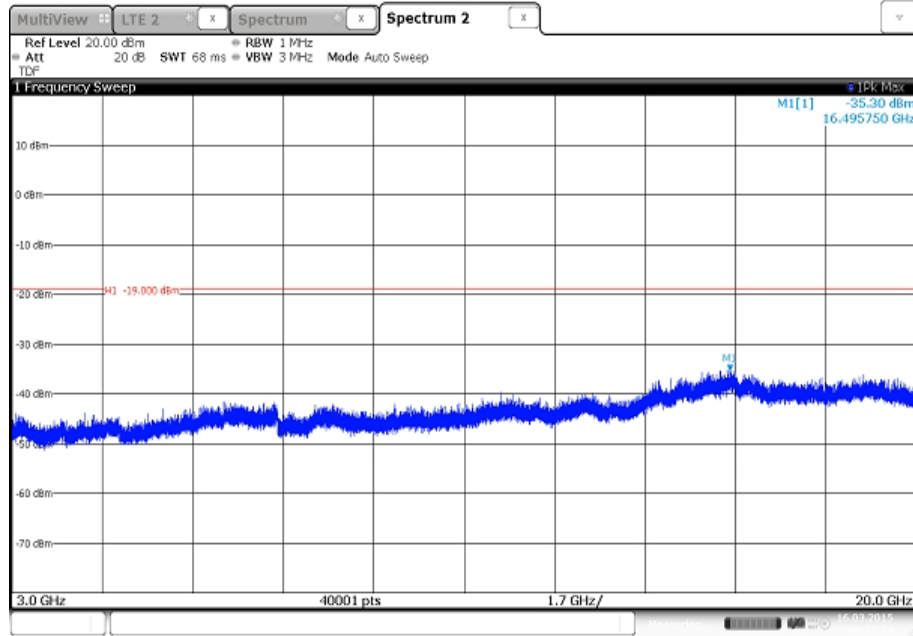
Antenna B - Modulation 16QAM - Carrier Bandwidth 15.0 MHz - Channel Position B - Band 2 - Range 3000 to 20000 MHz



Antenna B - Modulation 16QAM - Carrier Bandwidth 15.0 MHz - Channel Position M - Band 1 - Range 0.009 to 3000 MHz

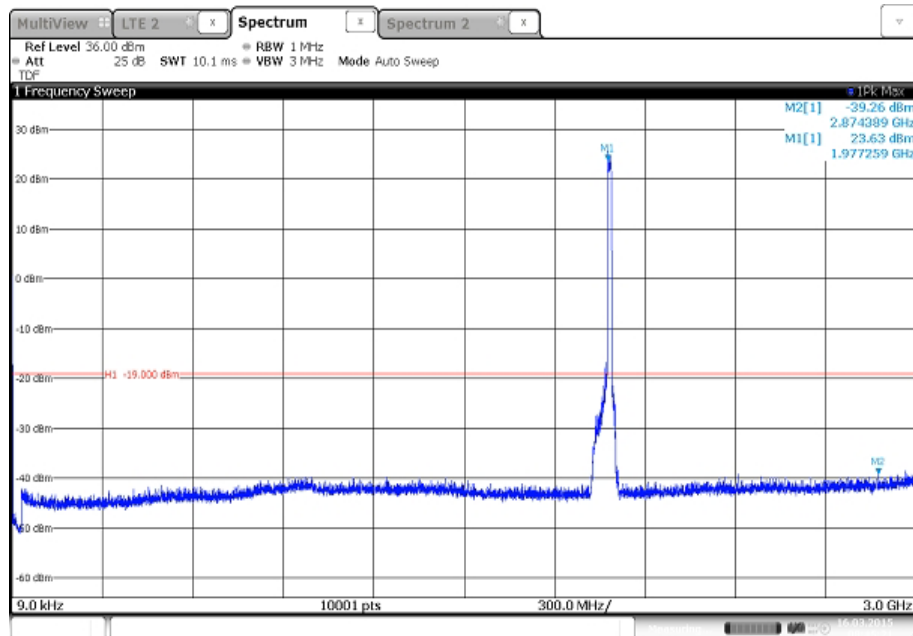


Antenna B - Modulation 16QAM - Carrier Bandwidth 15.0 MHz - Channel Position M - Band 2 - Range 3000 to 20000 MHz



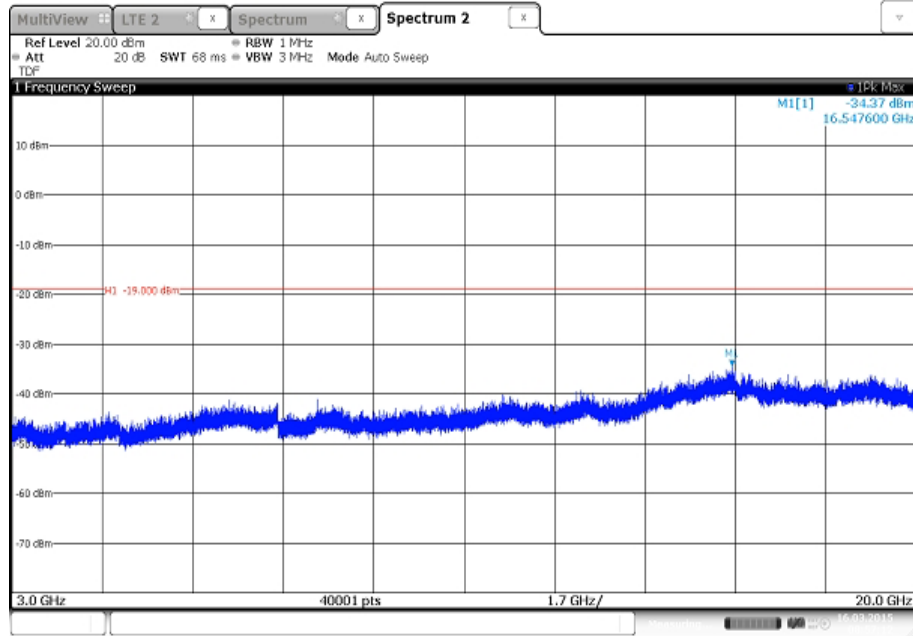
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Antenna B - Modulation 16QAM - Carrier Bandwidth 15.0 MHz - Channel Position T - Band 1 - Range 0.009 to 3000 MHz



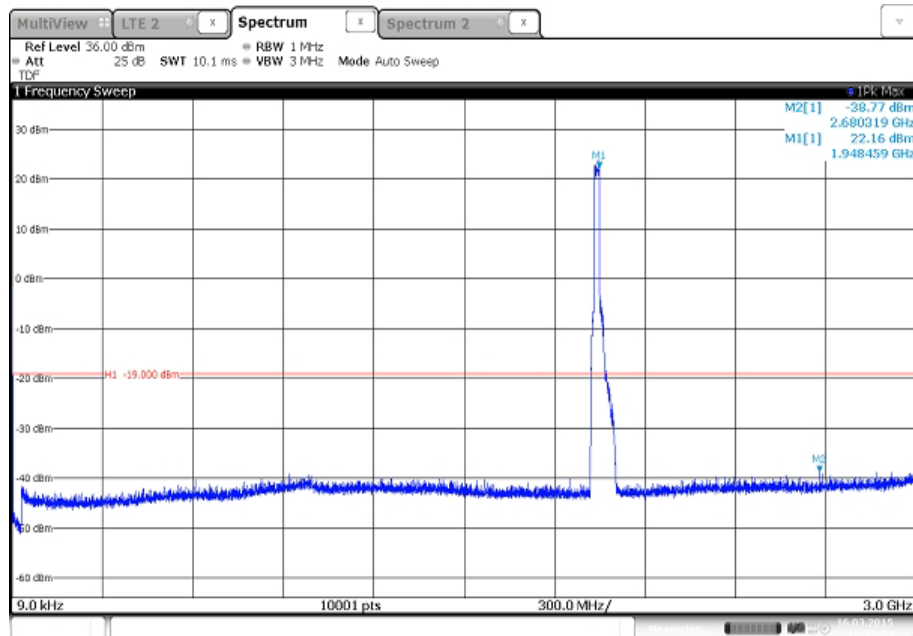
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Antenna B - Modulation 16QAM - Carrier Bandwidth 15.0 MHz - Channel Position T - Band 2 - Range 3000 to 20000 MHz



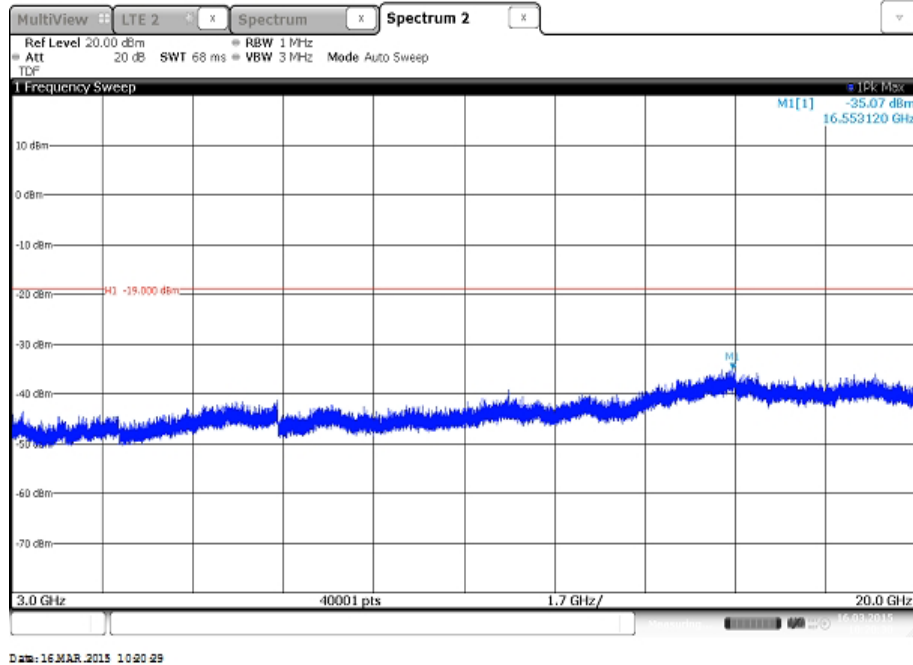
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Antenna B - Modulation 16QAM - Carrier Bandwidth 20.0 MHz - Channel Position B - Band 1 - Range 0.009 to 3000 MHz

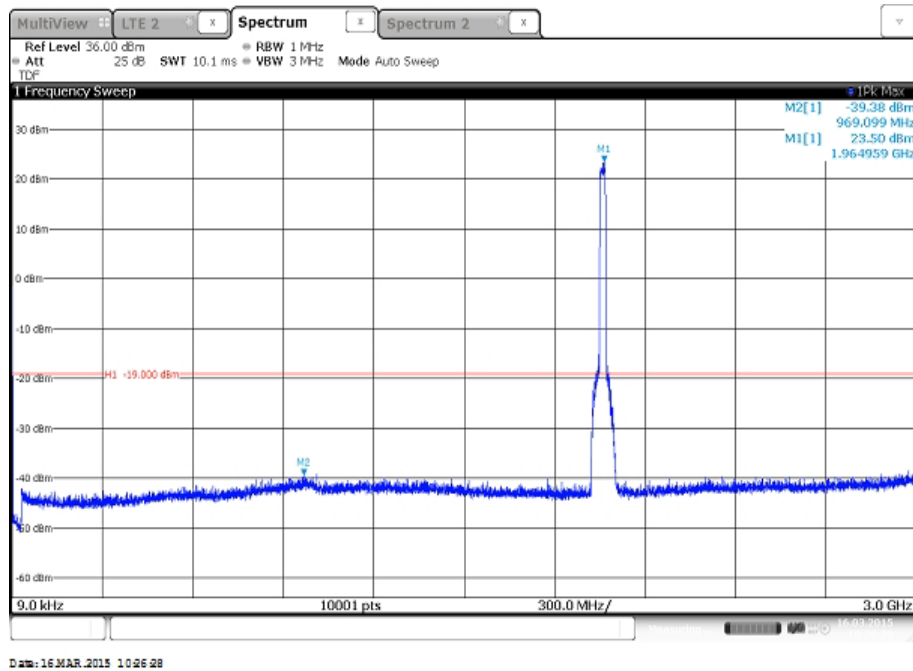


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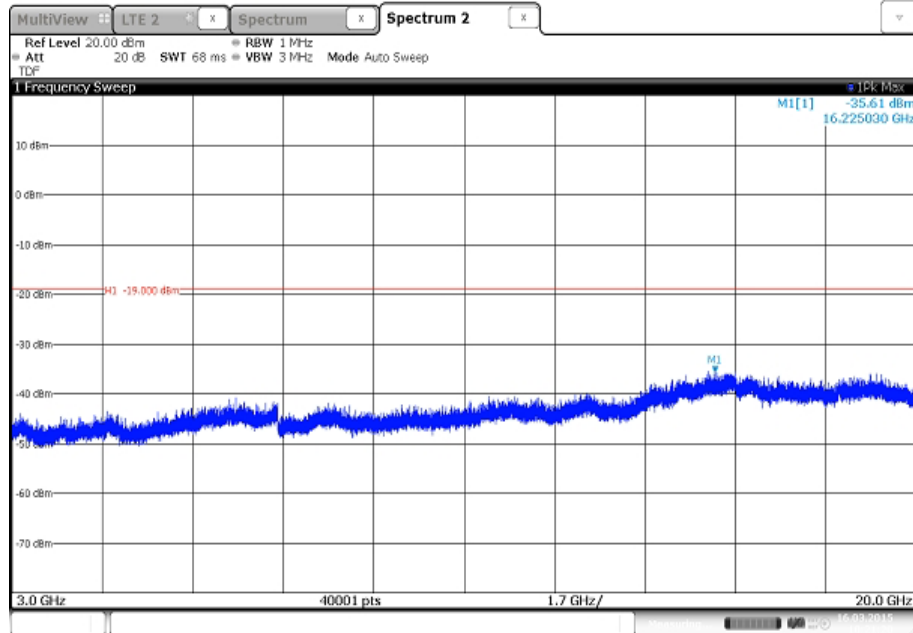
Antenna B - Modulation 16QAM - Carrier Bandwidth 20.0 MHz - Channel Position B - Band 2 - Range 3000 to 20000 MHz



Antenna B - Modulation 16QAM - Carrier Bandwidth 20.0 MHz - Channel Position M - Band 1 - Range 0.009 to 3000 MHz

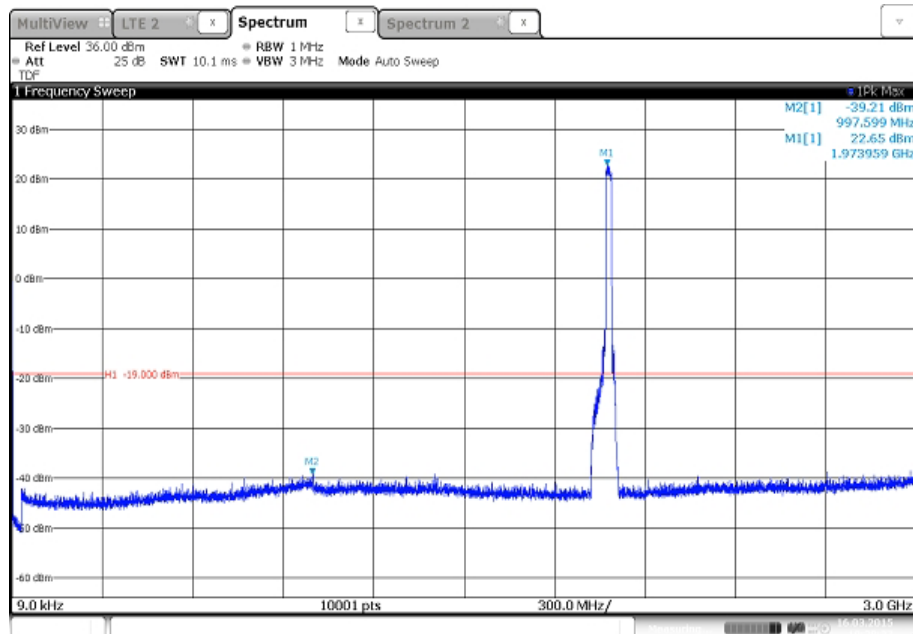


Antenna B - Modulation 16QAM - Carrier Bandwidth 20.0 MHz - Channel Position M - Band 2 - Range 3000 to 20000 MHz



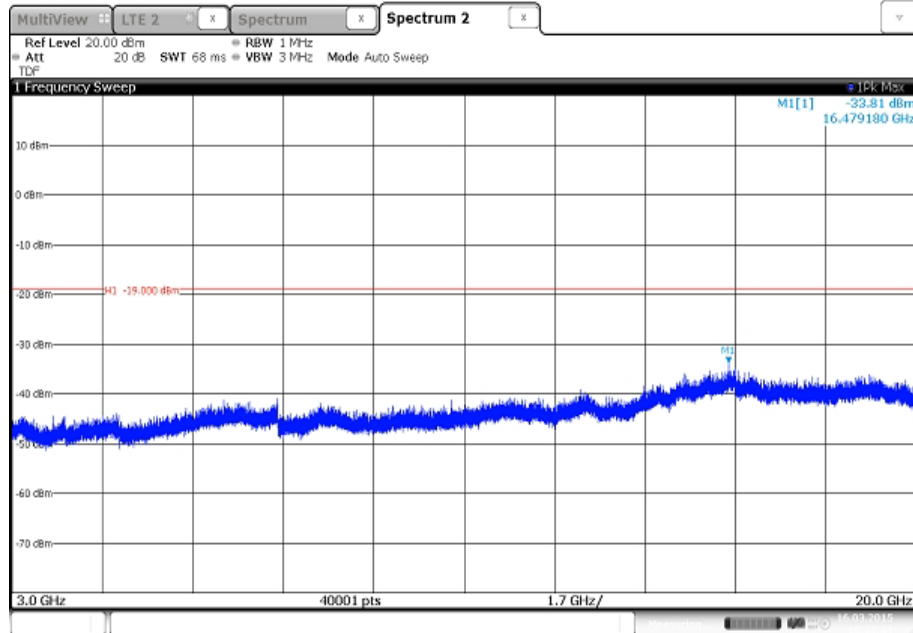
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Antenna B - Modulation 16QAM - Carrier Bandwidth 20.0 MHz - Channel Position T - Band 1 - Range 0.009 to 3000 MHz



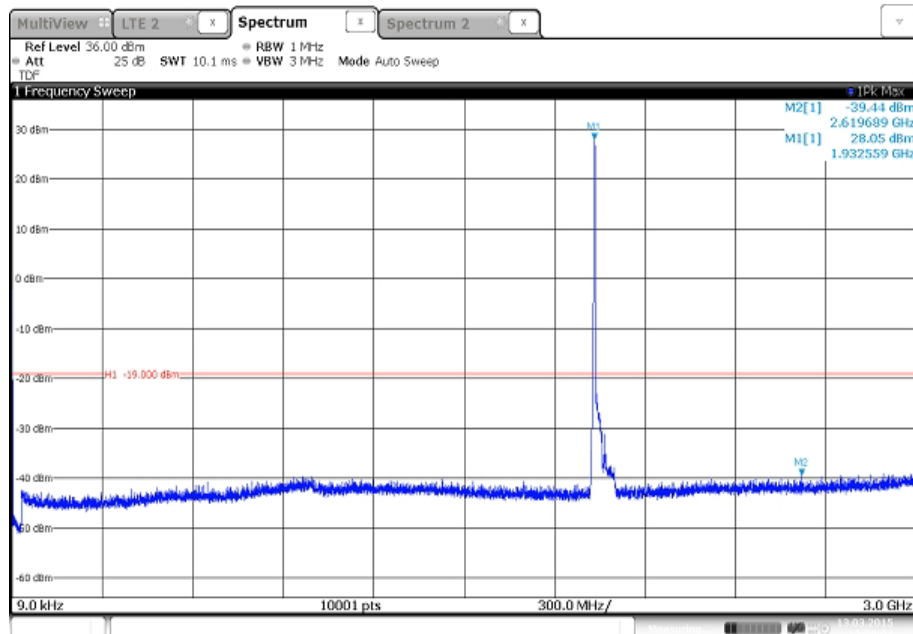
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Antenna B - Modulation 16QAM - Carrier Bandwidth 20.0 MHz - Channel Position T - Band 2 - Range 3000 to 20000 MHz



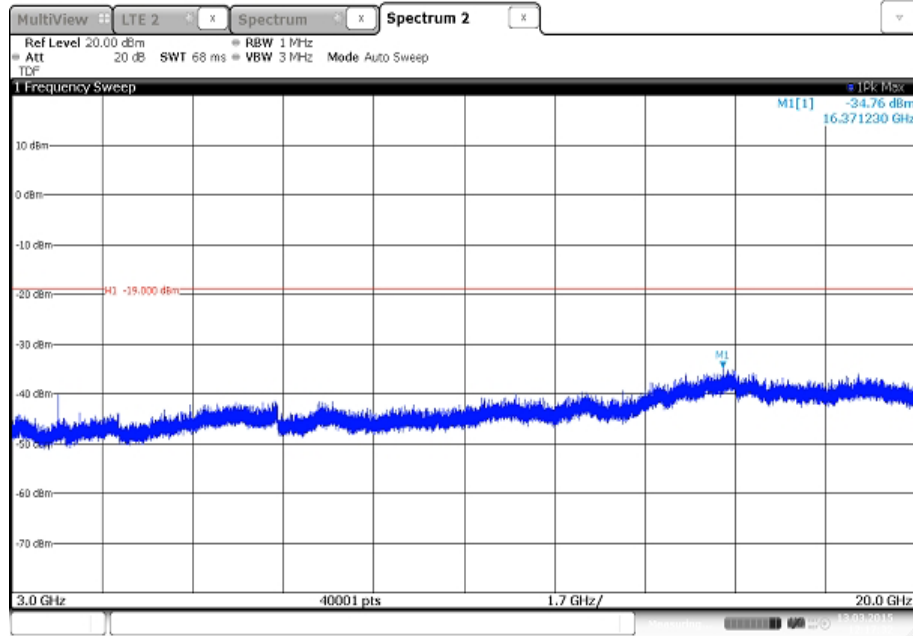
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Antenna B - Modulation 64QAM - Carrier Bandwidth 5.0 MHz - Channel Position B - Band 1 - Range 0.009 to 3000 MHz



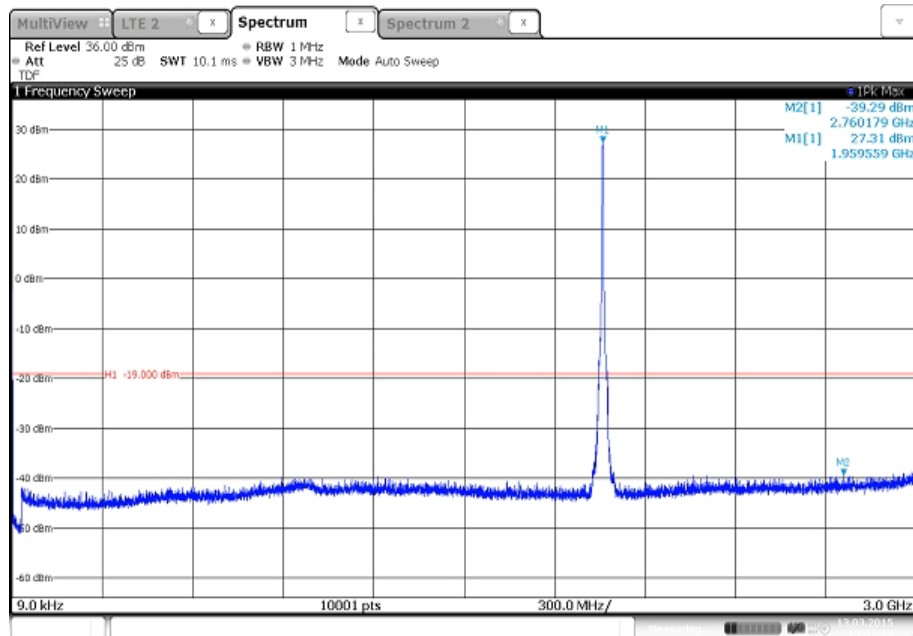
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Antenna B - Modulation 64QAM - Carrier Bandwidth 5.0 MHz - Channel Position B - Band 2 - Range 3000 to 20000 MHz



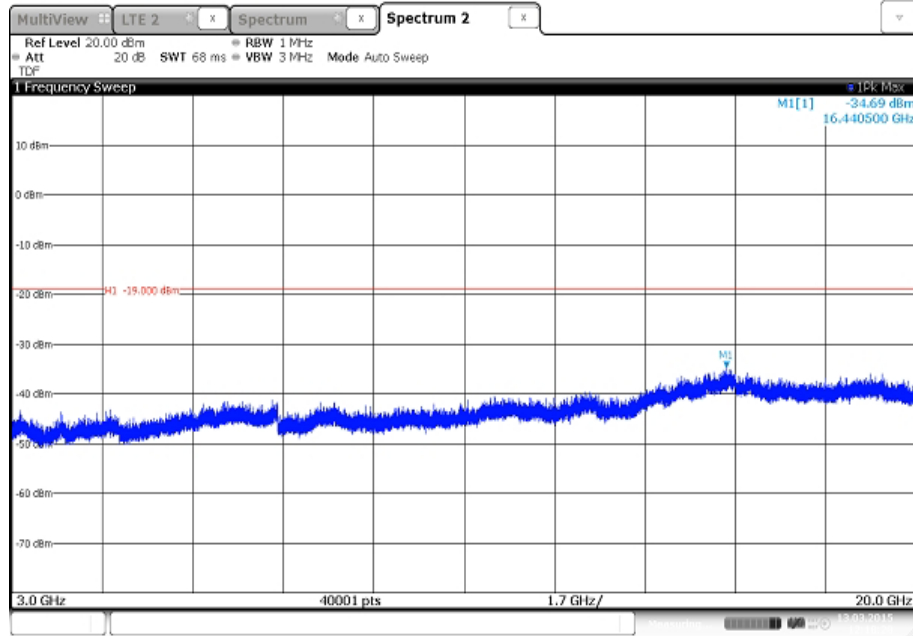
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Antenna B - Modulation 64QAM - Carrier Bandwidth 5.0 MHz - Channel Position M - Band 1 - Range 0.009 to 3000 MHz



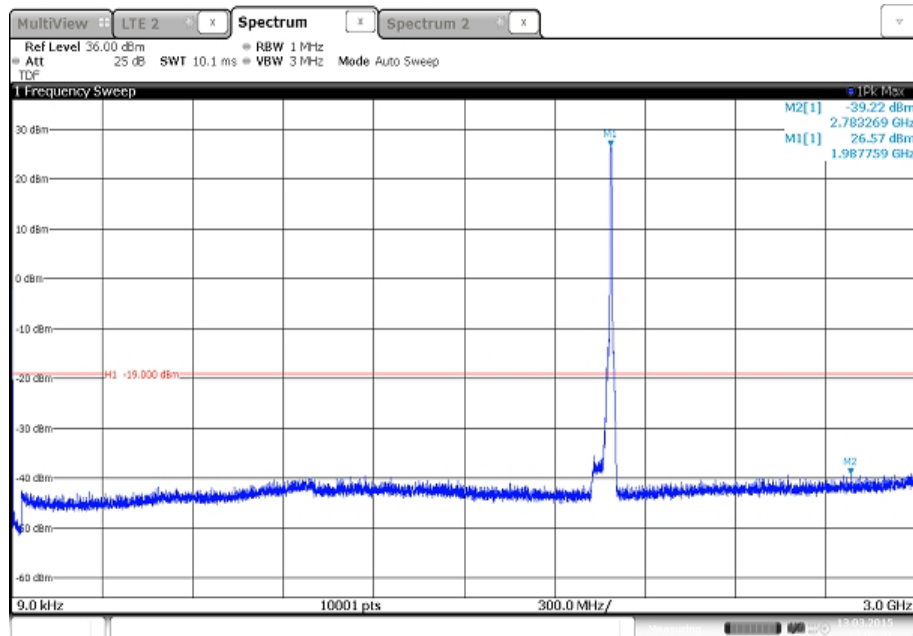
Date: 13.MAR.2015 13:07:54

Antenna B - Modulation 64QAM - Carrier Bandwidth 5.0 MHz - Channel Position M - Band 2 - Range 3000 to 20000 MHz



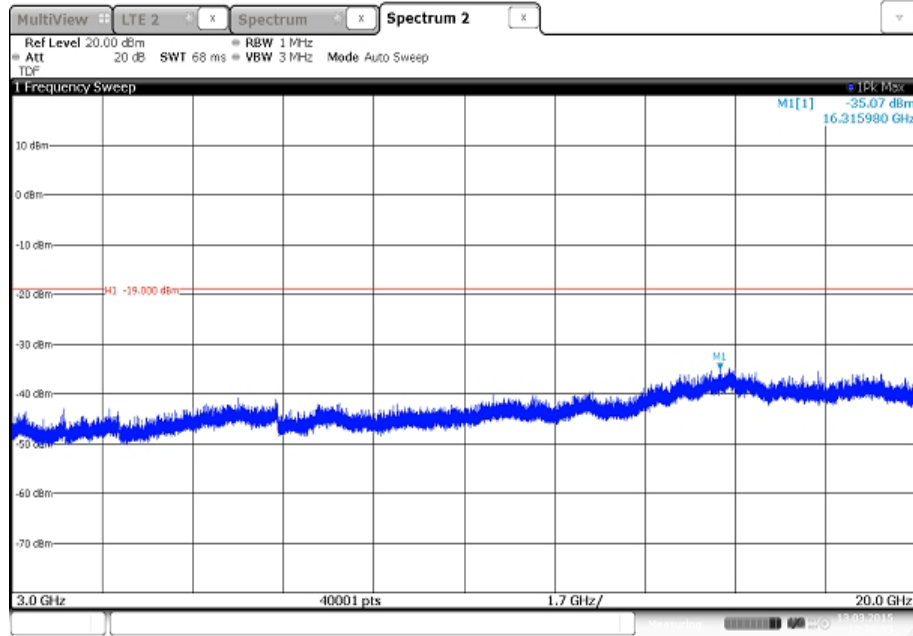
Date: 13 MAR 2015 12:18:27

Antenna B - Modulation 64QAM - Carrier Bandwidth 5.0 MHz - Channel Position T - Band 1 - Range 0.009 to 3000 MHz



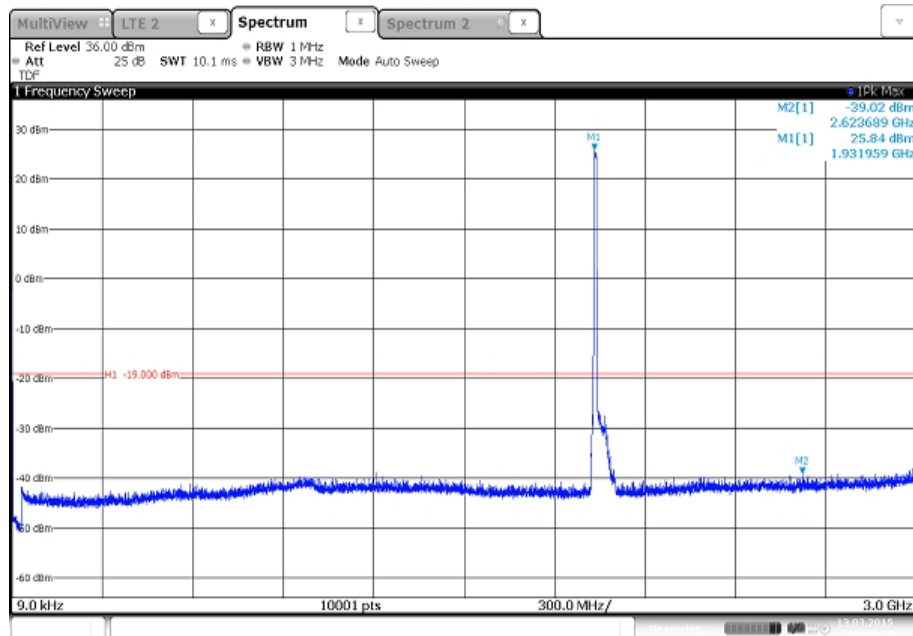
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Antenna B - Modulation 64QAM - Carrier Bandwidth 5.0 MHz - Channel Position T - Band 2 - Range 3000 to 20000 MHz



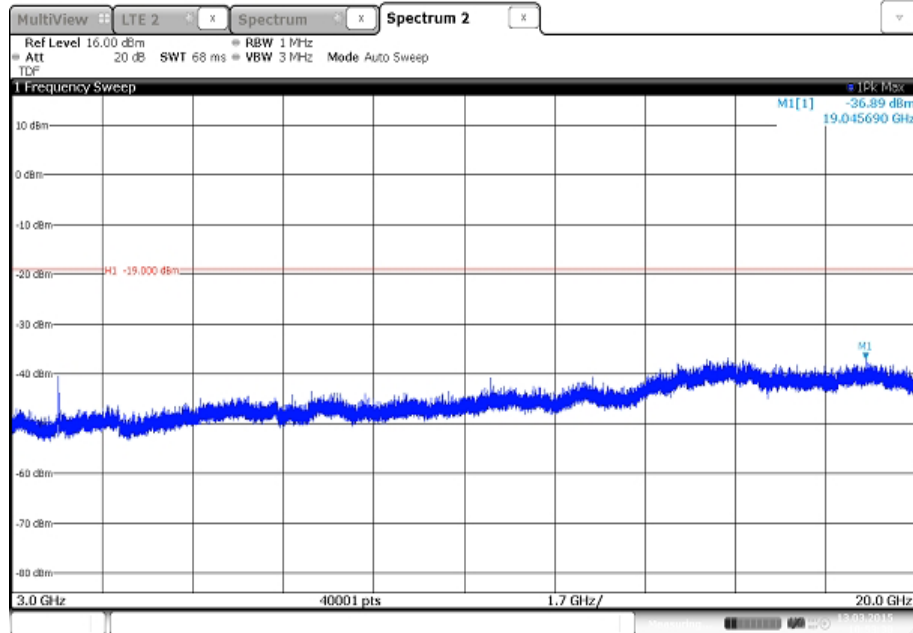
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Antenna B - Modulation 64QAM - Carrier Bandwidth 10.0 MHz - Channel Position B - Band 1 - Range 0.009 to 3000 MHz



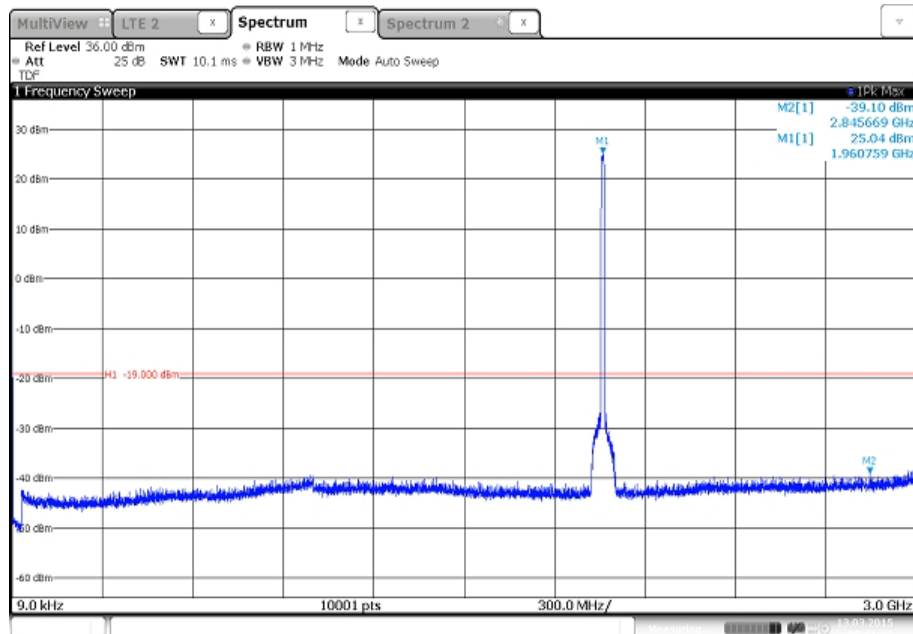
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Antenna B - Modulation 64QAM - Carrier Bandwidth 10.0 MHz - Channel Position B - Band 2 - Range 3000 to 20000 MHz



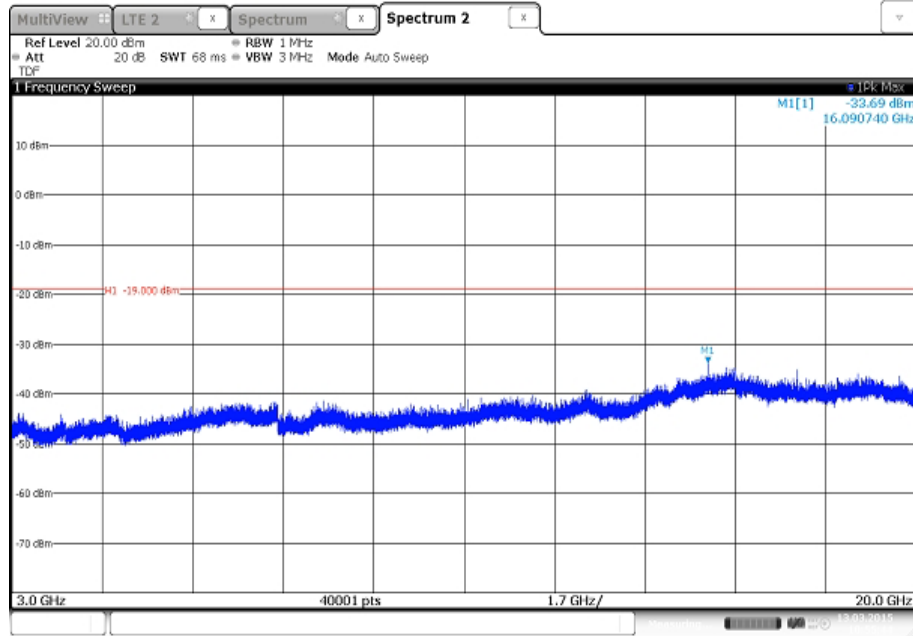
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Antenna B - Modulation 64QAM - Carrier Bandwidth 10.0 MHz - Channel Position M - Band 1 - Range 0.009 to 3000 MHz



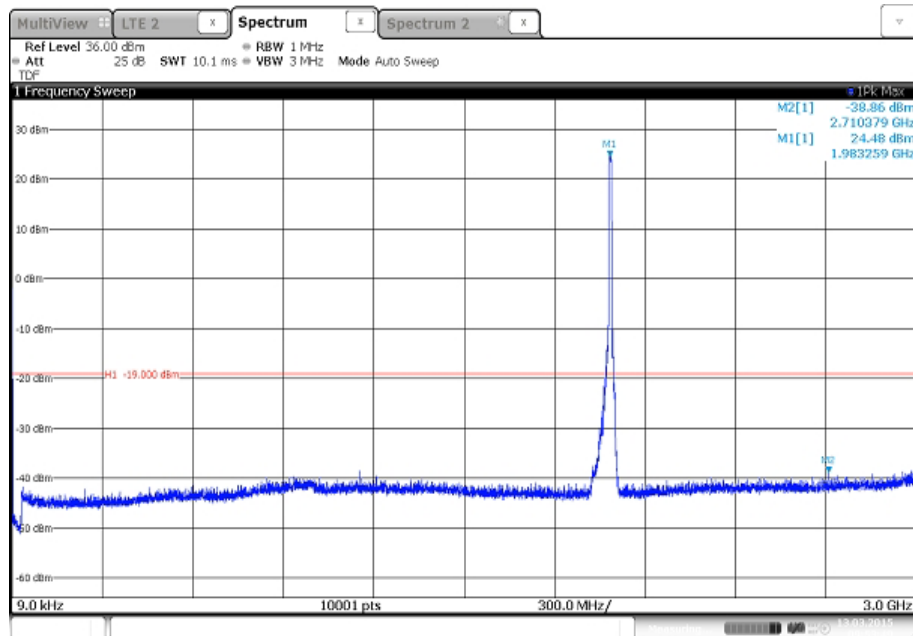
Date: 13.MAR.2015 09:51:43

Antenna B - Modulation 64QAM - Carrier Bandwidth 10.0 MHz - Channel Position M - Band 2 - Range 3000 to 20000 MHz



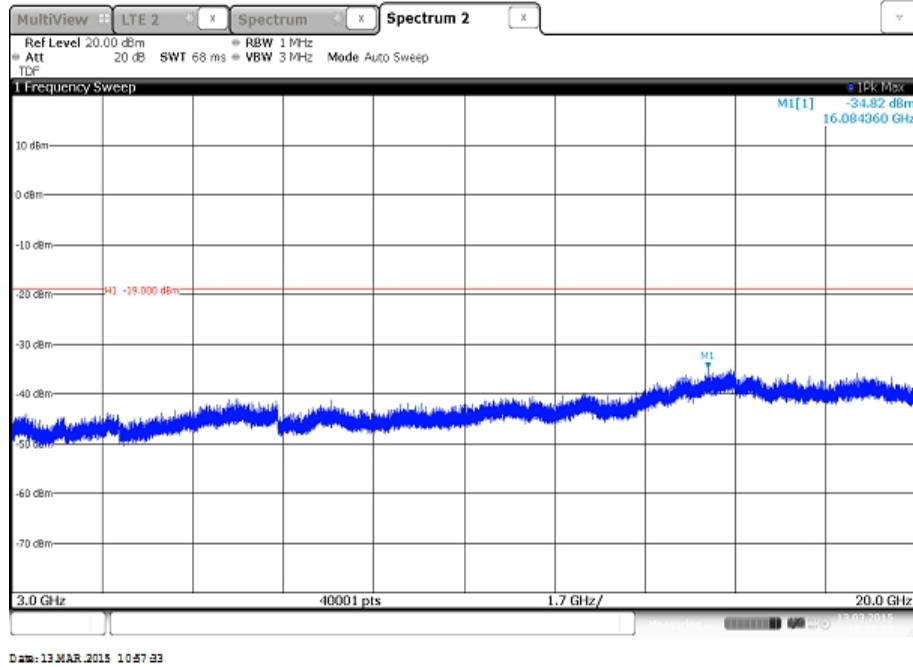
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Antenna B - Modulation 64QAM - Carrier Bandwidth 10.0 MHz - Channel Position T - Band 1 - Range 0.009 to 3000 MHz

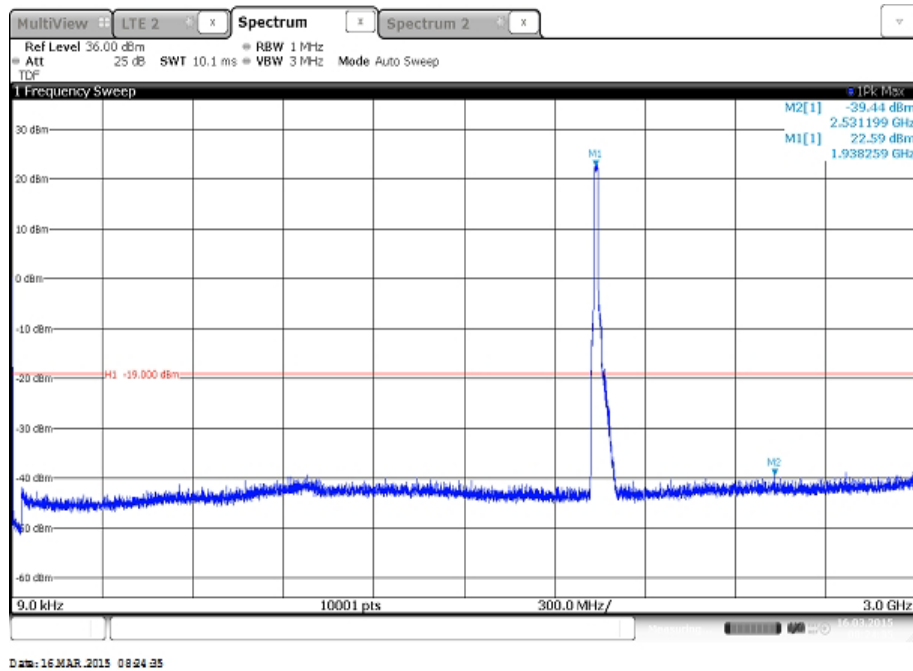


Date: 13 MAR 2015 09:53:48

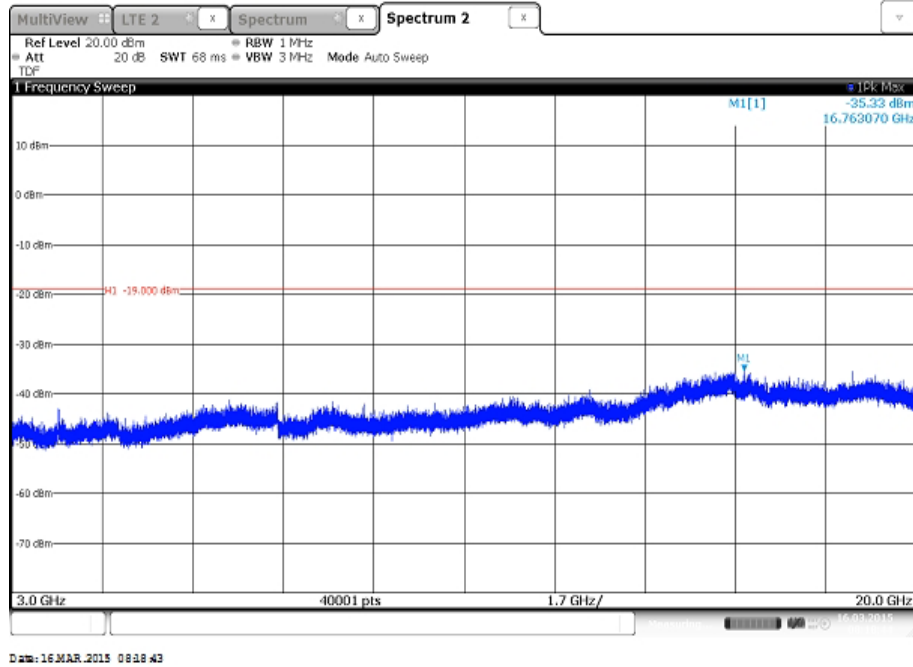
Antenna B - Modulation 64QAM - Carrier Bandwidth 10.0 MHz - Channel Position T - Band 2 - Range 3000 to 20000 MHz



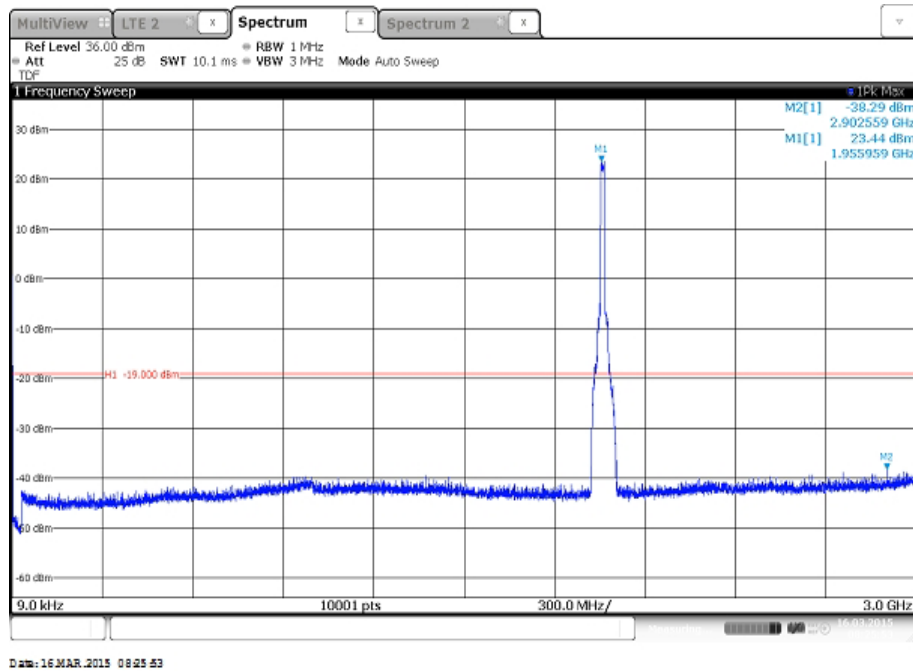
Antenna B - Modulation 64QAM - Carrier Bandwidth 15.0 MHz - Channel Position B - Band 1 - Range 0.009 to 3000 MHz



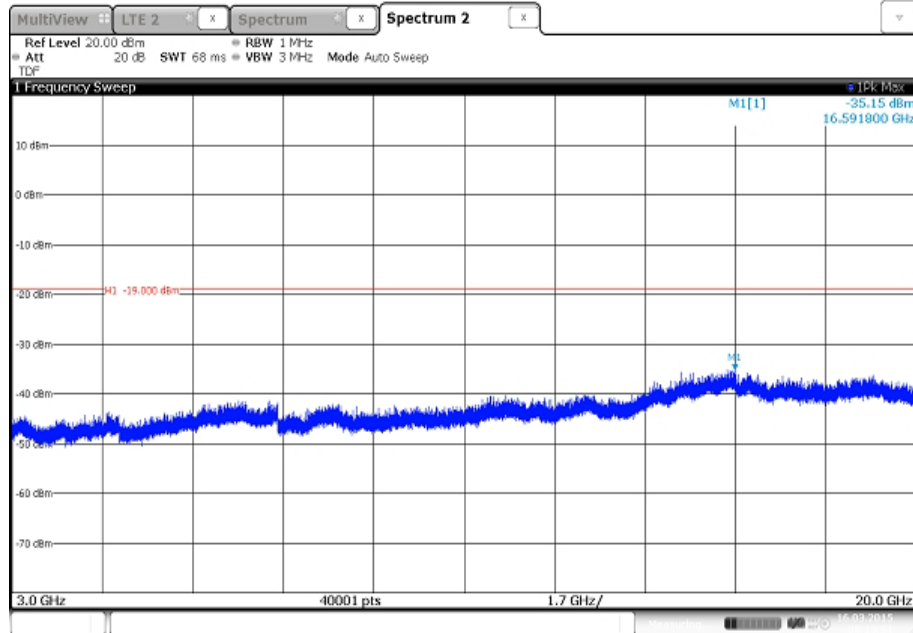
Antenna B - Modulation 64QAM - Carrier Bandwidth 15.0 MHz - Channel Position B - Band 2 - Range 3000 to 20000 MHz



Antenna B - Modulation 64QAM - Carrier Bandwidth 15.0 MHz - Channel Position M - Band 1 - Range 0.009 to 3000 MHz

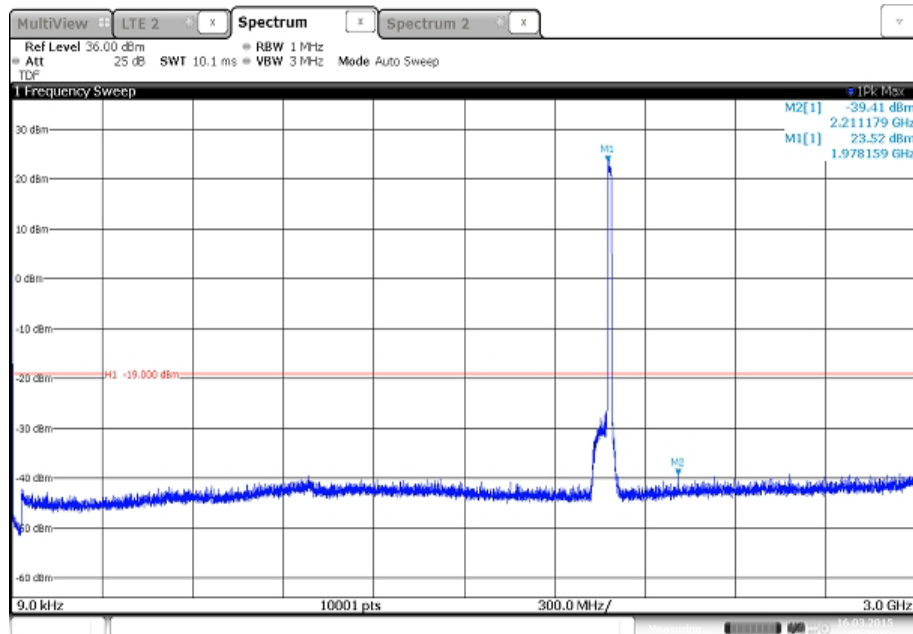


Antenna B - Modulation 64QAM - Carrier Bandwidth 15.0 MHz - Channel Position M - Band 2 - Range 3000 to 20000 MHz



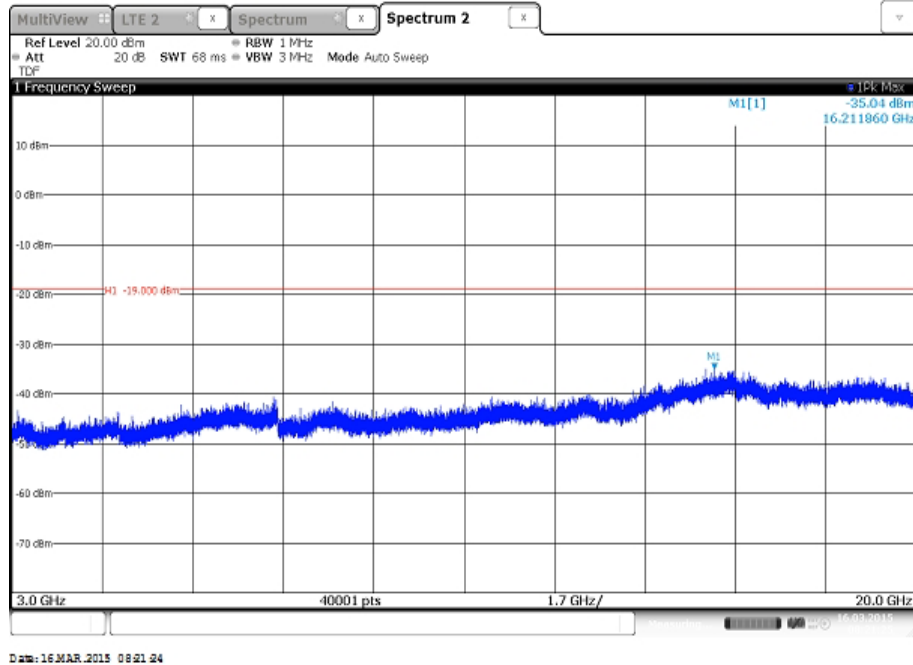
Date: 16.MAR.2015 08:19:50

Antenna B - Modulation 64QAM - Carrier Bandwidth 15.0 MHz - Channel Position T - Band 1 - Range 0.009 to 3000 MHz

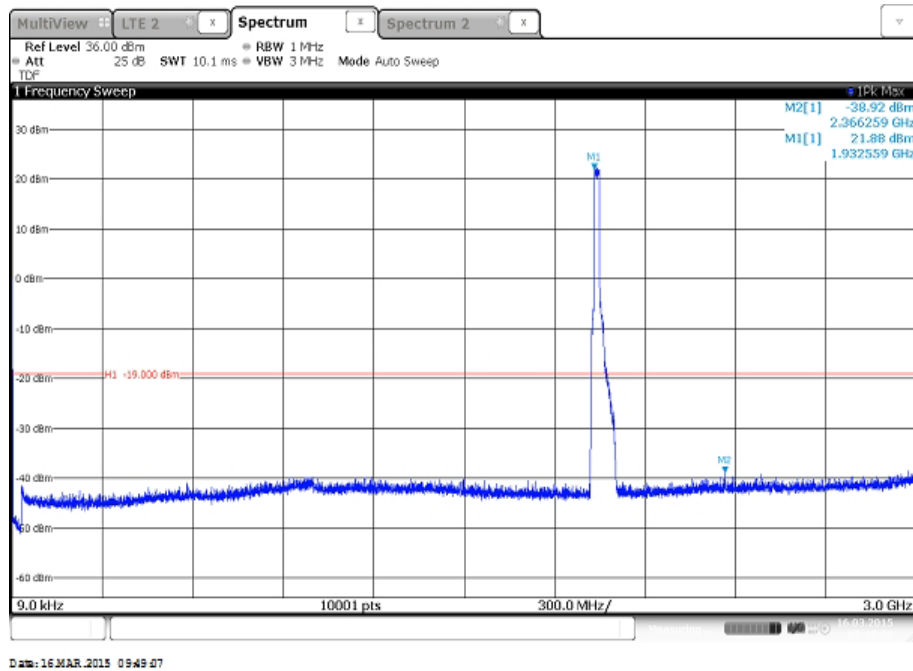


Date: 16.MAR.2015 08:28:02

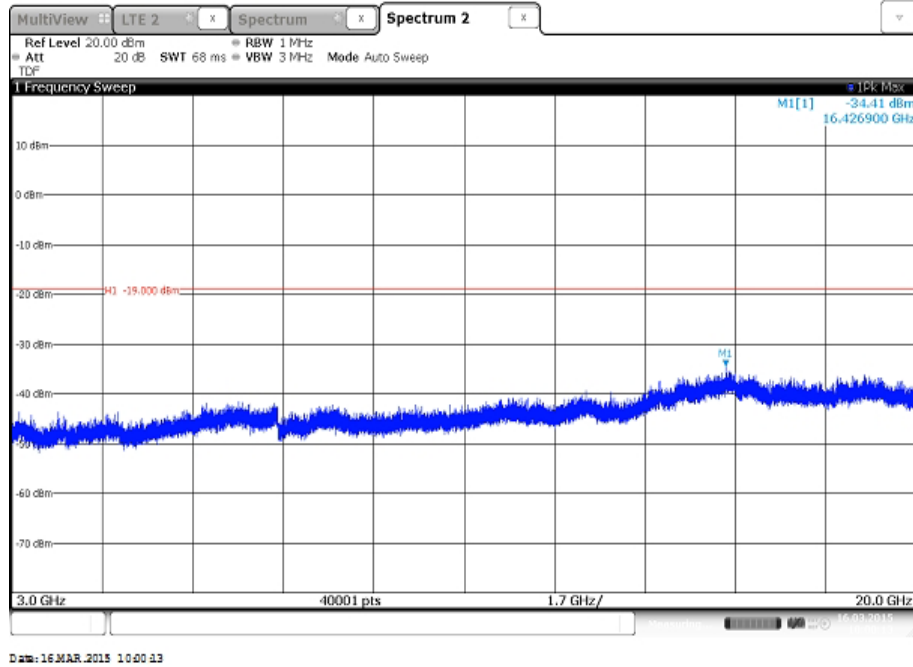
Antenna B - Modulation 64QAM - Carrier Bandwidth 15.0 MHz - Channel Position T - Band 2 - Range 3000 to 20000 MHz



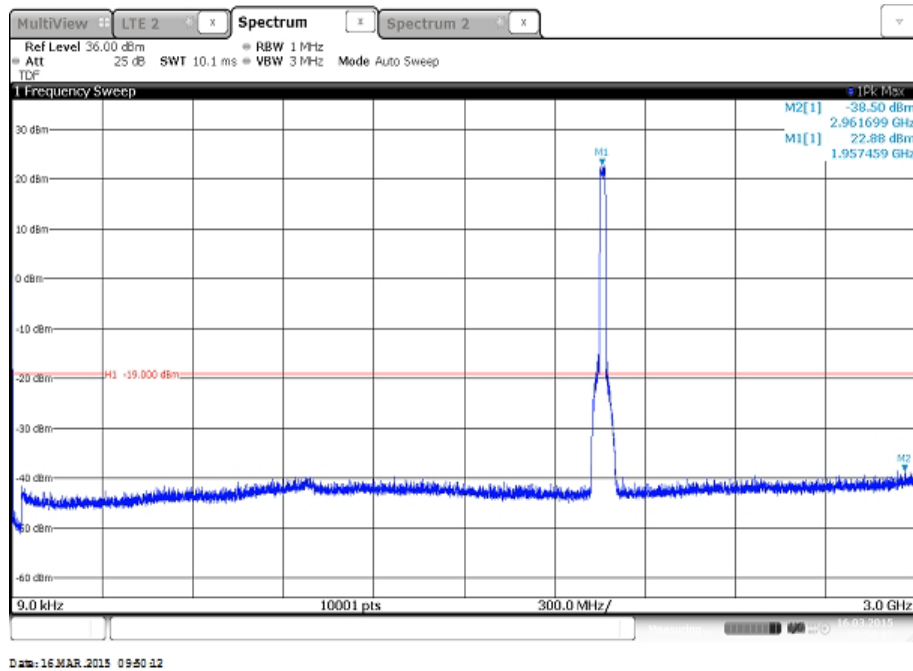
Antenna B - Modulation 64QAM - Carrier Bandwidth 20.0 MHz - Channel Position B - Band 1 - Range 0.009 to 3000 MHz



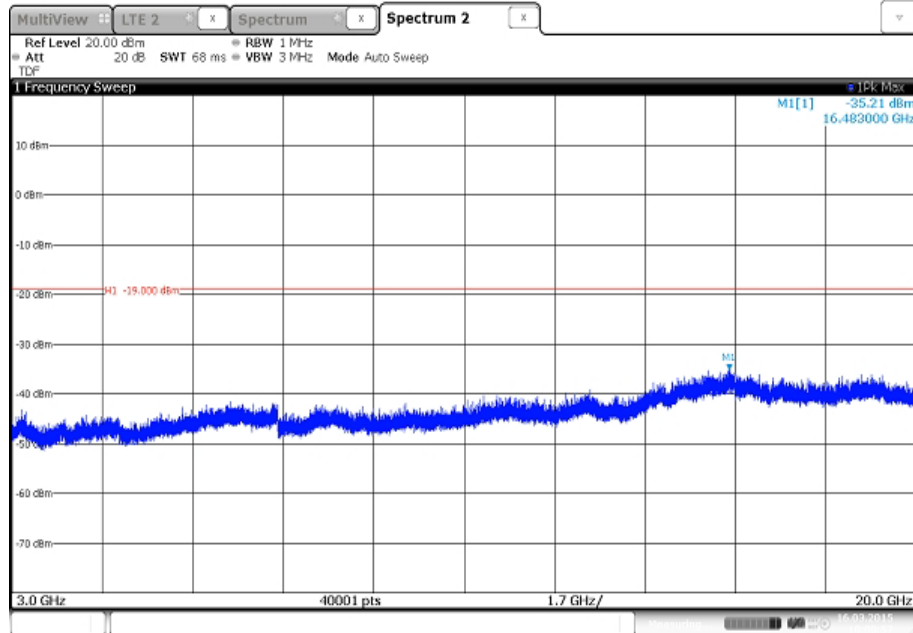
Antenna B - Modulation 64QAM - Carrier Bandwidth 20.0 MHz - Channel Position B - Band 2 - Range 3000 to 20000 MHz



Antenna B - Modulation 64QAM - Carrier Bandwidth 20.0 MHz - Channel Position M - Band 1 - Range 0.009 to 3000 MHz

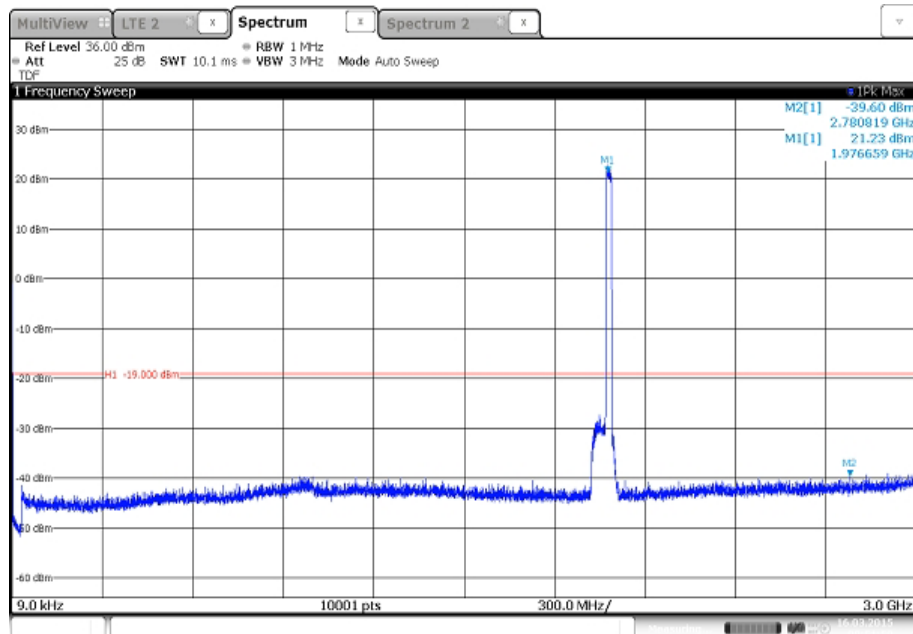


Antenna B - Modulation 64QAM - Carrier Bandwidth 20.0 MHz - Channel Position M - Band 2 - Range 3000 to 20000 MHz



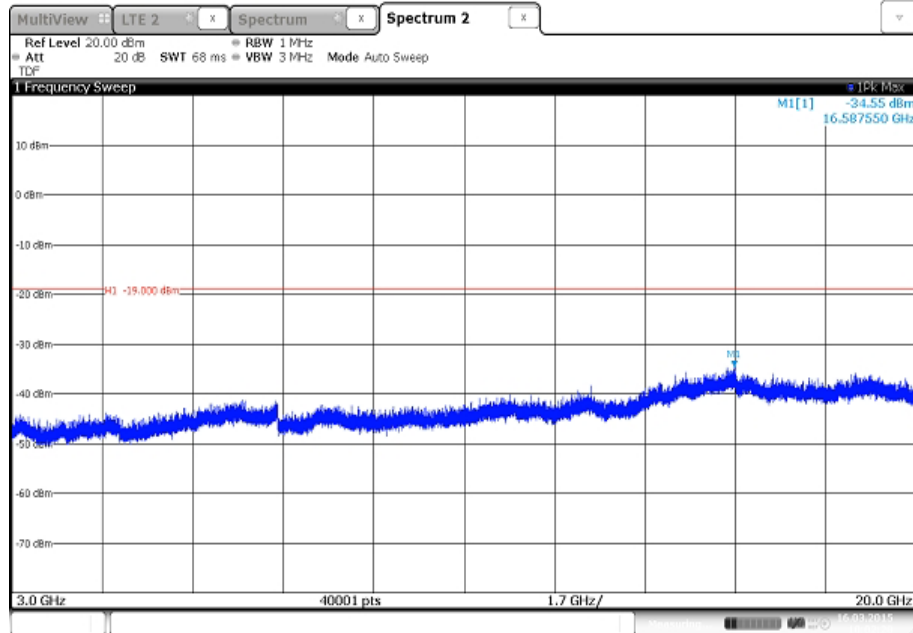
Date: 16.MAR.2015 10:00:57

Antenna B - Modulation 64QAM - Carrier Bandwidth 20.0 MHz - Channel Position T - Band 1 - Range 0.009 to 3000 MHz



Date: 16.MAR.2015 09:51:49

Antenna B - Modulation 64QAM - Carrier Bandwidth 20.0 MHz - Channel Position T - Band 2 - Range 3000 to 20000 MHz



Date: 16.MAR.2015 10:02:27

Limit	-19 dBm
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2.5 FREQUENCY STABILITY

2.5.1 Specification Reference

FCC CFR 47 Part 2, Clause 2.1055
FCC CFR 47 Part 24, Clause 24.235
Industry Canada RSS-133, Clause 6.3

2.5.2 Date of Test and Modification State

10 and 11 March 2015 - Modification State 0

2.5.3 Test Equipment Used

The major items of test equipment used for the above tests are identified in Section 3.1.

2.5.4 Environmental Conditions

Ambient Temperature	24.3 - 26.5°C
Relative Humidity	23.8%

2.5.5 Test Method

Frequency Error – Temperature Variation

The EUT was tested over the temperature range -30°C to +50°C in 10°C steps. At each temperature step, the BTS was configured to transmit a 5 MHz LTE carrier at maximum power on the middle channel of the operating band. After achieving thermal balance, the mean Frequency Error was measured and recorded.

Frequency Error – Voltage Variation

The EUT was tested at the upper and lower voltages described in the table below. At each voltage extreme, the BTS was configured to transmit a 5 MHz LTE carrier at maximum power on the middle channel of the operating band. The mean Frequency Error was then measured and recorded.

2.5.6 Test Results

Configuration A

Maximum Output Power 24 dBm

Temperature	Modulation	Frequency Stability (Hz)
		Channel Position M
-30°C	QPSK	-9.33
	16QAM	-8.36
	64QAM	-8.18
-20°C	QPSK	-8.51
	16QAM	7.67
	64QAM	7.79
-10°C	QPSK	-8.74
	16QAM	-9.49
	64QAM	14.57
0°C	QPSK	-8.81
	16QAM	-8.40
	64QAM	9.31
+10°C	QPSK	-8.92
	16QAM	-8.66
	64QAM	7.48
+20°C	QPSK	-8.67
	16QAM	-8.42
	64QAM	8.44
+30°C	QPSK	-9.20
	16QAM	-9.17
	64QAM	8.00
+40°C	QPSK	-8.78
	16QAM	-9.00
	64QAM	-11.91
+50°C	QPSK	7.65
	16QAM	-9.58
	64QAM	5.10

Configuration A

Maximum Output Power 24 dBm

Voltage	Modulation	Frequency Stability (Hz)
		Channel Position M
-40.8 V	QPSK	19.41
	16QAM	10.71
	64QAM	12.68
-48.0 V	QPSK	11.44
	16QAM	12.90
	64QAM	18.25
-55.2 V	QPSK	9.52
	16QAM	10.01
	64QAM	9.32

Limit	± 1.0 ppm or ± 1.96 kHz
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Product Service

SECTION 3

TEST EQUIPMENT USED

3.1 TEST EQUIPMENT USED

List of absolute measuring and other principal items of test equipment.

Instrument	Manufacturer	Type No.	TE No.	Calibration Period (months)	Calibration Due
Maximum Peak Output Power and Peak to Average Ratio - Conducted					
Humidity Temperature Meter	RS	1260	4300	12	01-May-2015
Digital Multimeter	Fluke	79 Series II	3057	12	06-Oct-2015
Attenuator	Weinschel	47-10-34	BH3729	-	OP MON
Signal switching unit	Orbis OY	Sub-assembly	2571	-	N/A
Signal Analyser	Rohde & Schwarz	FSW	103799	12	29-Dec-2015
Signal Analyser	Rohde & Schwarz	FSV	101694	12	23-Oct-2015
Signal Generator	Rohde & Schwarz	SMBV100A	258387	-	OP MON
Termination SMA	Mini Circuits	ANNE-50+	-	-	N/A
Power Supply	Hewlett Packard	6032A	3323A-09441	-	OP MON
Occupied Bandwidth					
Humidity Temperature Meter	RS	1260	4300	12	01-May-2015
Digital Multimeter	Fluke	79 Series II	3057	12	06-Oct-2015
Attenuator	Weinschel	47-10-34	BH3729	-	OP MON
Signal Analyser	Rohde & Schwarz	FSW	103799	12	29-Dec-2015
Signal Generator	Rohde & Schwarz	SMBV100A	258387	-	OP MON
Termination SMA	Mini Circuits	ANNE-50+	-	-	N/A
Power Supply	Hewlett Packard	6032A	3323A-09441	-	OP MON
Band Edge					
Humidity Temperature Meter	RS	1260	4300	12	01-May-2015
Digital Multimeter	Fluke	79 Series II	3057	12	06-Oct-2015
Attenuator	Weinschel	47-10-34	BH3729	-	OP MON
Signal Analyser	Rohde & Schwarz	FSW	103799	12	29-Dec-2015
Signal Generator	Rohde & Schwarz	SMBV100A	258387	-	OP MON
Termination SMA	Mini Circuits	ANNE-50+	-	-	N/A
Power Supply	Hewlett Packard	6032A	3323A-09441	-	OP MON
Transmitter Spurious Emissions					
Humidity Temperature Meter	RS	1260	4300	12	01-May-2015
Digital Multimeter	Fluke	79 Series II	3057	12	06-Oct-2015
Attenuator	Weinschel	47-10-34	BH3729	-	OP MON
Signal Analyser	Rohde & Schwarz	FSW	103799	12	29-Dec-2015
Signal Generator	Rohde & Schwarz	SMBV100A	258387	-	OP MON
Termination SMA	Mini Circuits	ANNE-50+	-	-	N/A
Power Supply	Hewlett Packard	6032A	3323A-09441	-	OP MON

Instrument	Manufacturer	Type No.	TE No.	Calibration Period (months)	Calibration Due
Frequency Stability					
Humidity Temperature Meter	RS	1260	4300	12	01-May-2015
Digital Multimeter	Fluke	79 Series II	3057	12	06-Oct-2015
Attenuator	Weinschel	47-10-34	BH3729	-	OP MON
Signal Analyser	Rohde & Schwarz	FSW	103799	12	29-Dec-2015
Signal Generator	Rohde & Schwarz	SMBV100A	258387	-	OP MON
Termination SMA	Mini Circuits	ANNE-50+	-	-	N/A
Power Supply	Hewlett Packard	6032A	3323A-09441	-	OP MON
Climatic chamber	Votsch	VT 4018	58566065410 010	-	O/P Mon

N/A – Not Applicable

OP MON – Output Monitored with Calibrated Equipment

3.2 MEASUREMENT UNCERTAINTY

For a 95% confidence level, the measurement uncertainties for defined systems are:-

Test Discipline	Frequency / Parameter	MU
Conducted Maximum Peak Output Power	30 MHz to 20 GHz Amplitude	± 0.1 dB
Conducted Emissions	30 MHz to 20 GHz Amplitude	± 2.3 dB
Frequency Stability	30 MHz to 2 GHz	± 5.0 Hz
Occupied Bandwidth	Up to 20 MHz Bandwidth	± 1.1 Hz
Band Edge	30 MHz to 20 GHz Amplitude	± 2.3 dB



Product Service

SECTION 5

ACCREDITATION, DISCLAIMERS AND COPYRIGHT

4.1 ACCREDITATION, DISCLAIMERS AND COPYRIGHT



This report relates only to the actual item/items tested.

Our UKAS Accreditation does not cover opinions and interpretations and any expressed are outside the scope of our UKAS Accreditation.

Results of tests not covered by our UKAS Accreditation Schedule are marked NUA
(Not UKAS Accredited).

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Product Service

ANNEX A

MODULE LIST



Product Service

Configuration A			
Product	Product No	R-State	Serial No
RBS 6402	KRD 901 060/2X	R1B	C829217441,C82978261