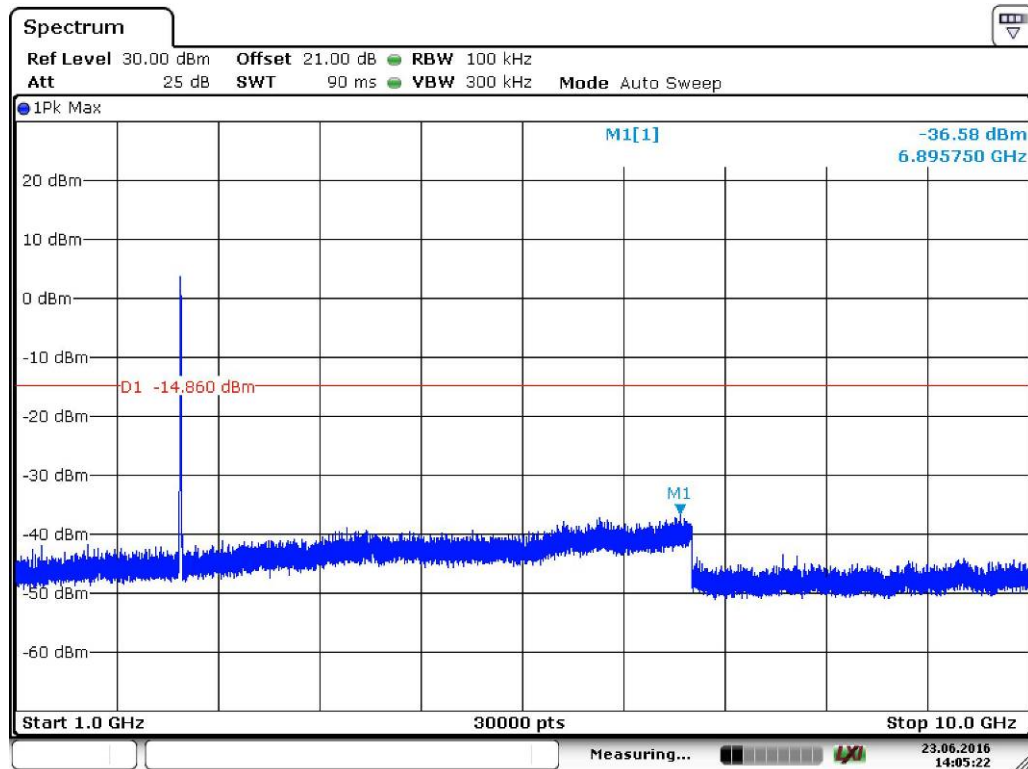
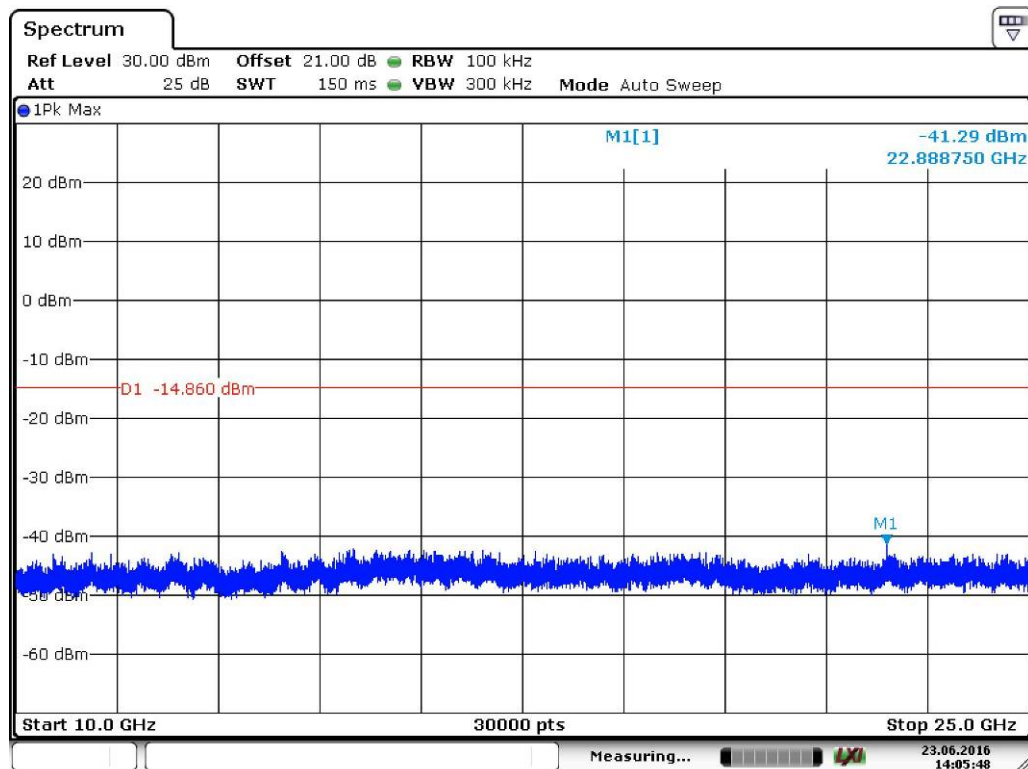


1G-10G



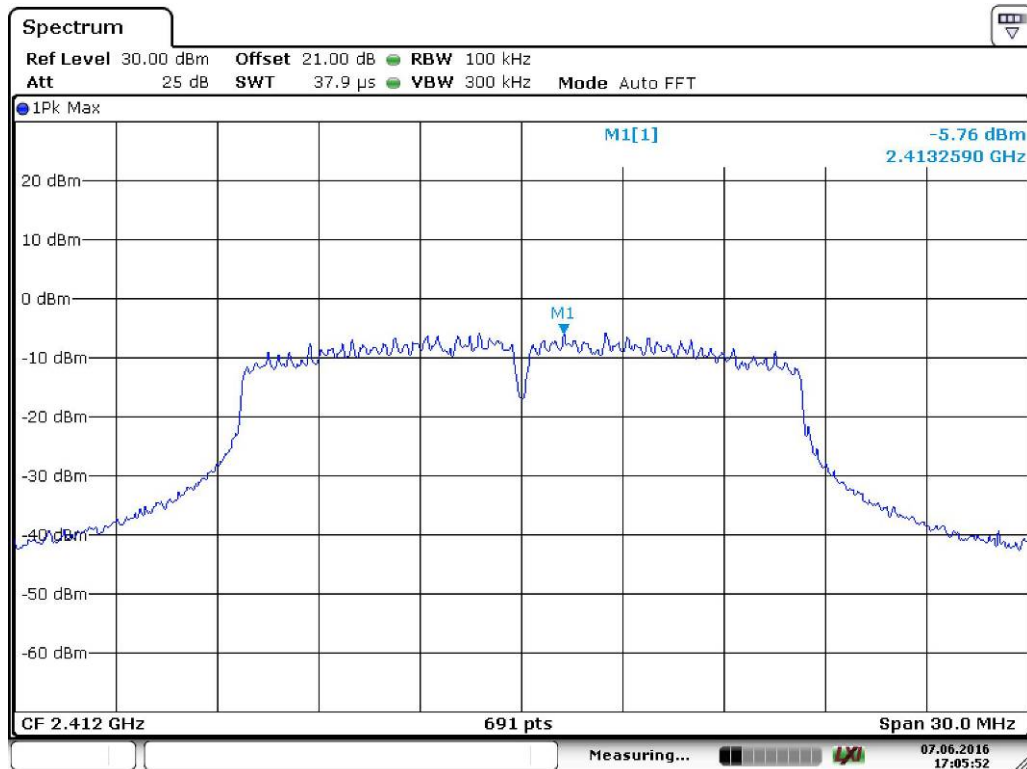
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10G-25G



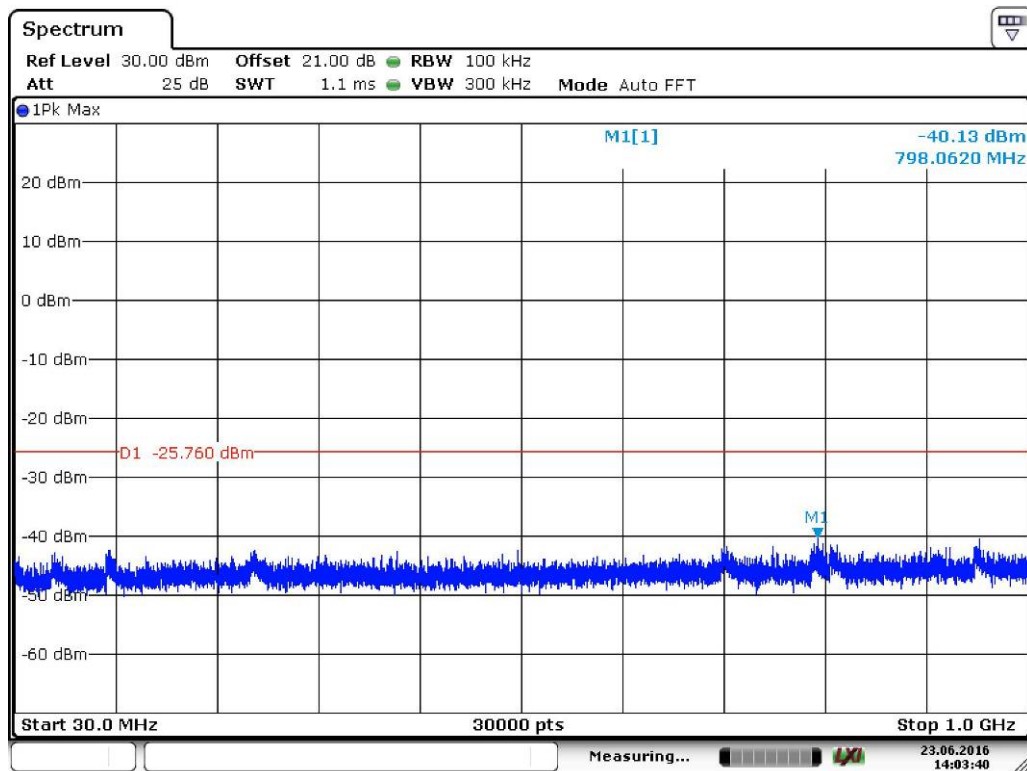
Date: 23.JUN.2016 14:05:48

802.11g mode:
Channel 2412MHz
reference level:



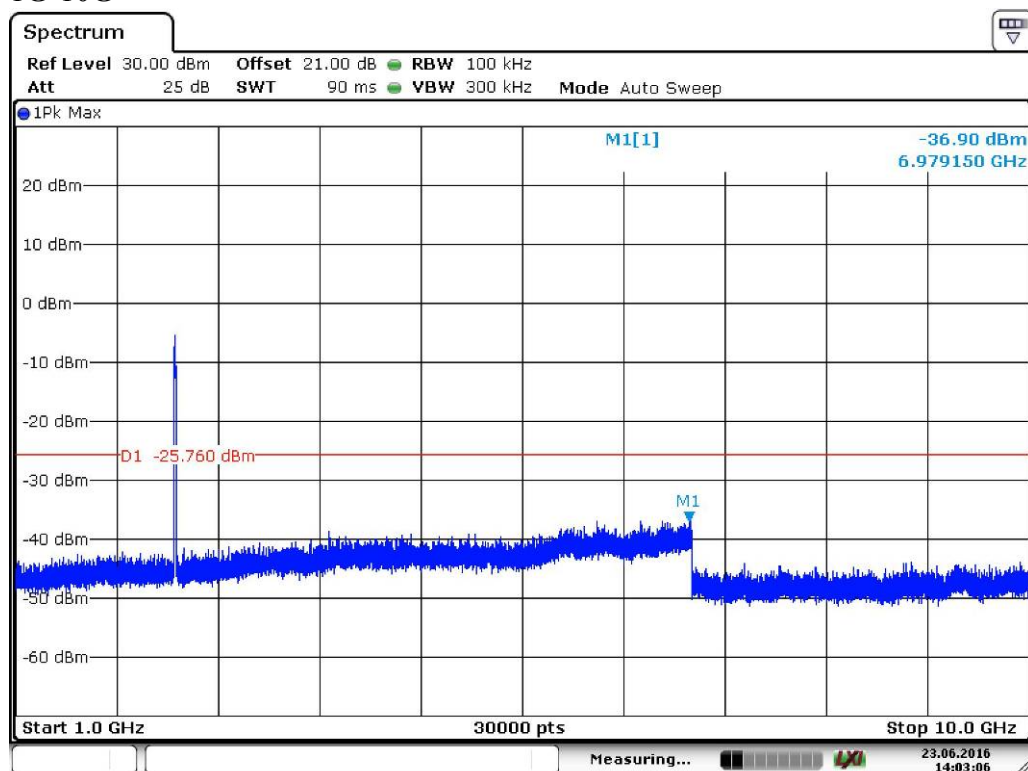
Date: 7.JUN.2016 17:05:52

30M-1G



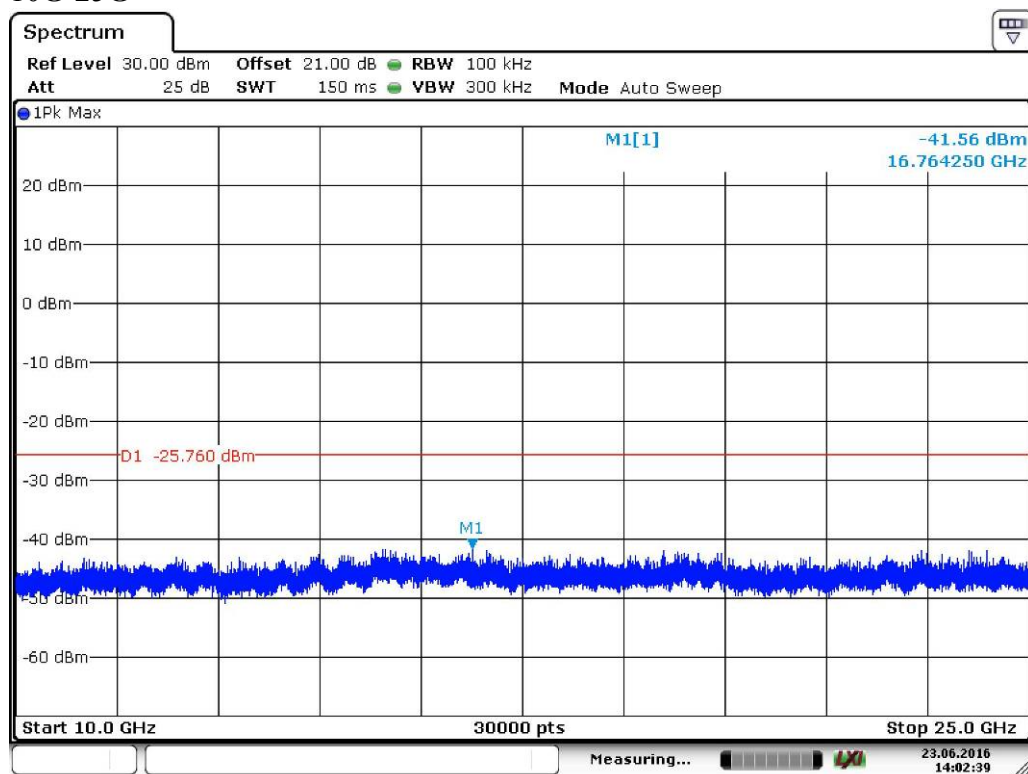
Date: 23.JUN.2016 14:03:40

1G-10G



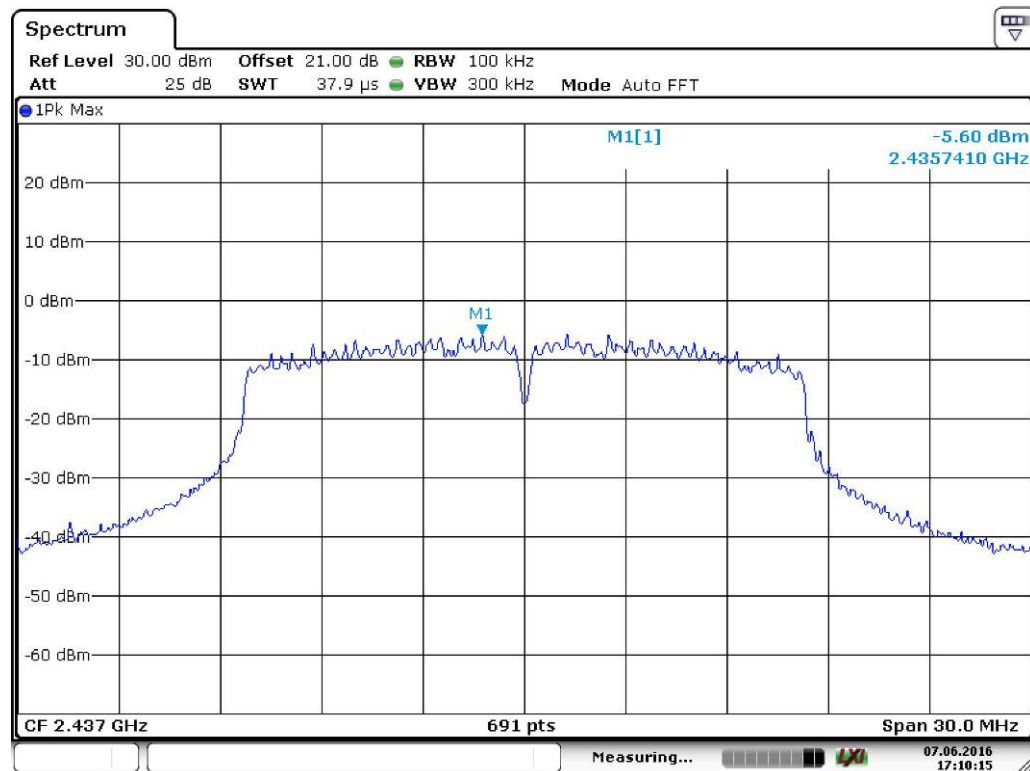
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10G-25G



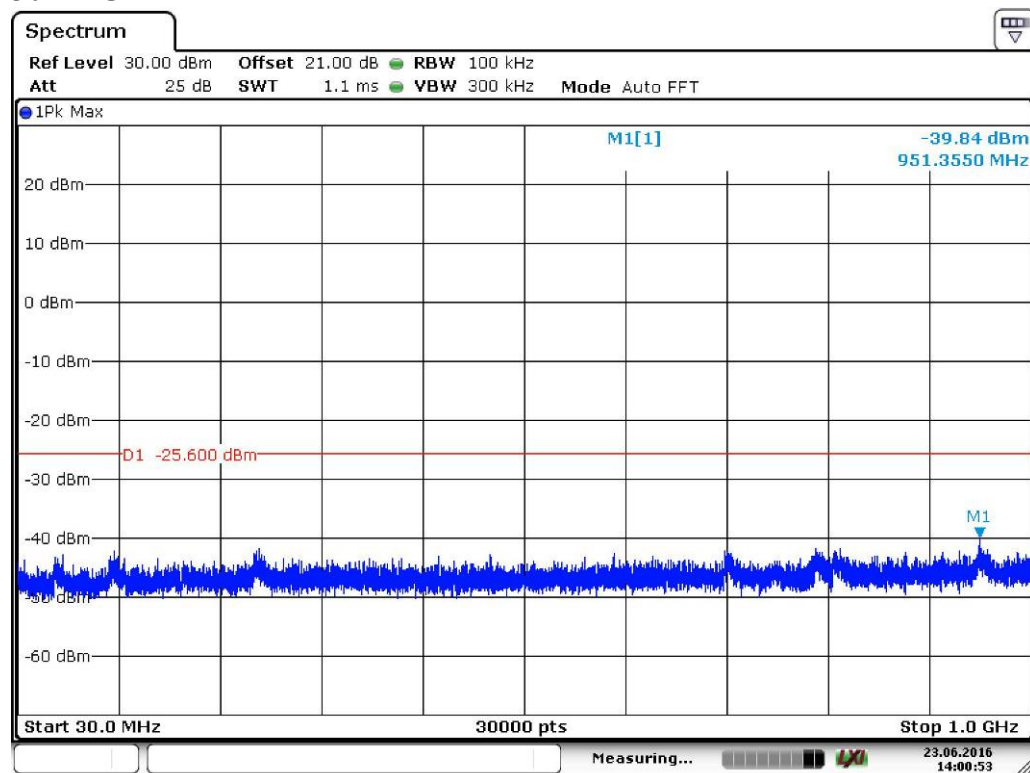
Date: 23. JUN. 2016 14:02:39

802.11g mode:
Channel 2437MHz
reference level:



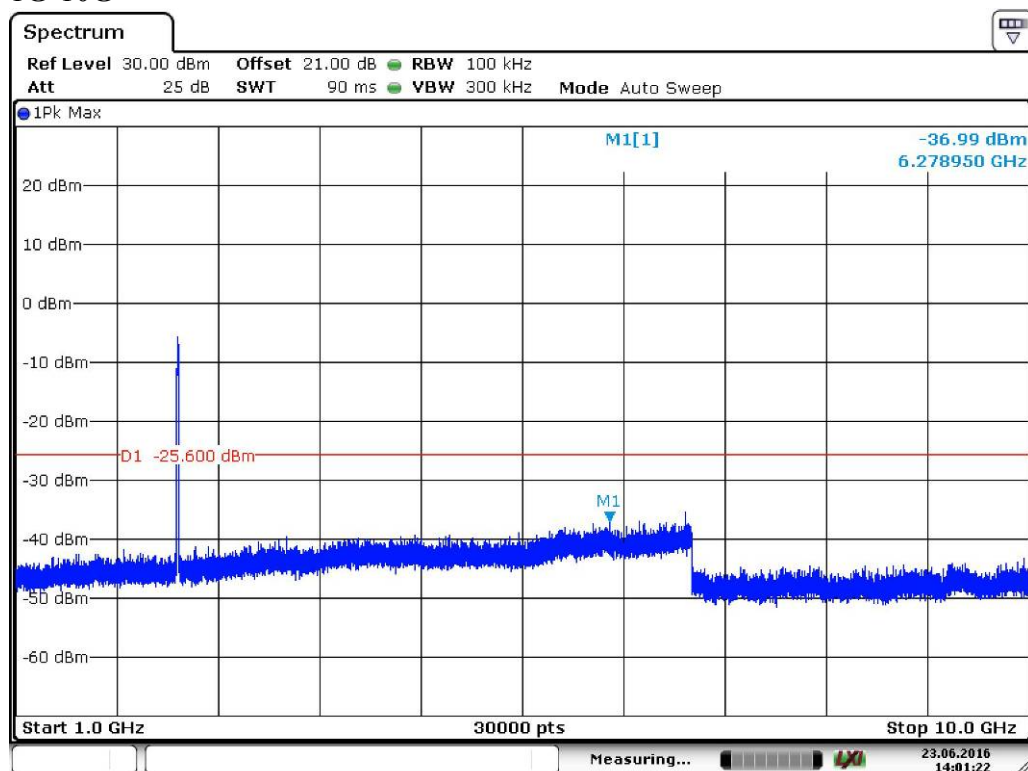
Date: 7.JUN.2016 17:10:15

30M-1G



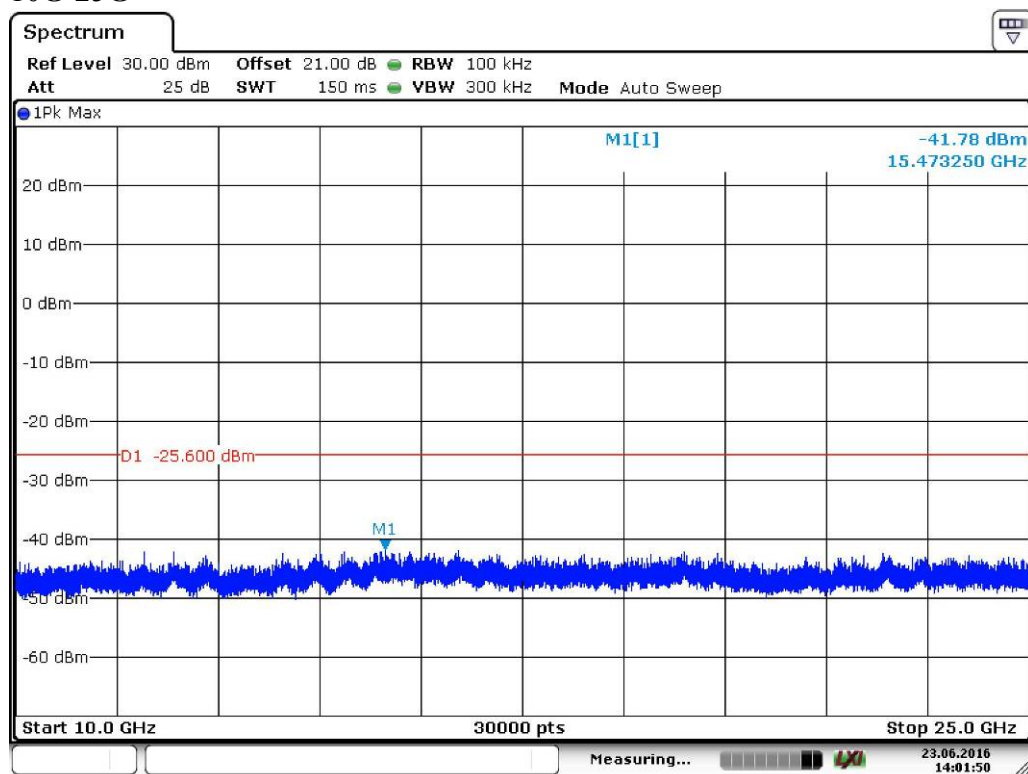
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1G-10G



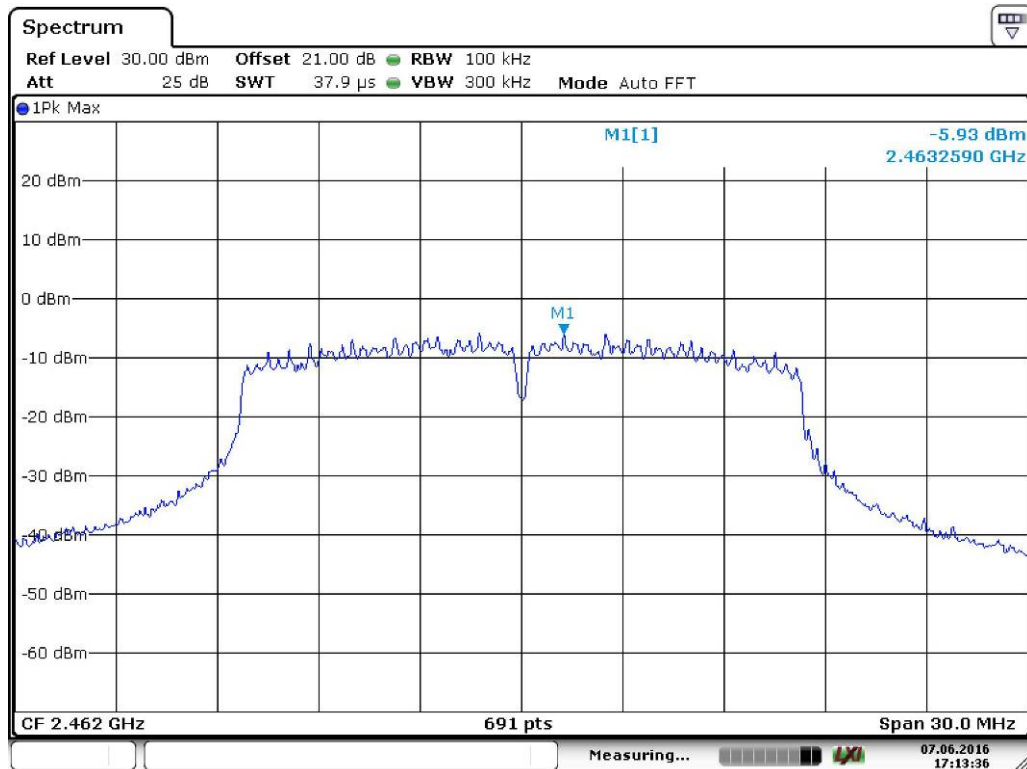
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10G-25G



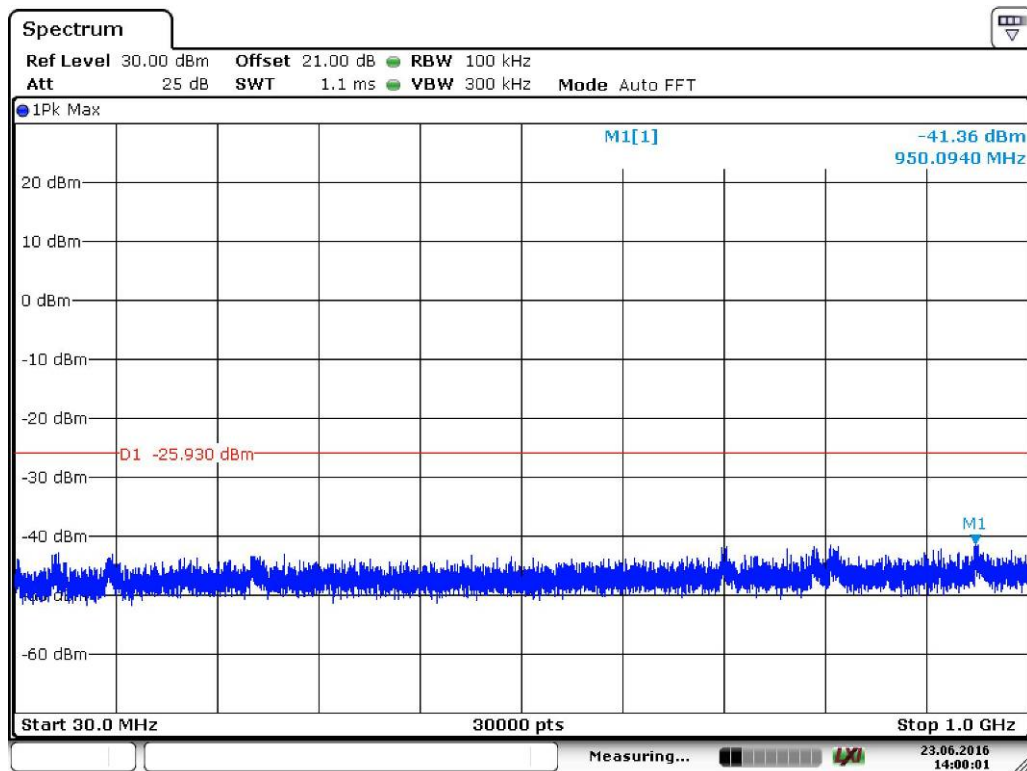
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802.11g mode:
Channel 2462MHz
reference level:



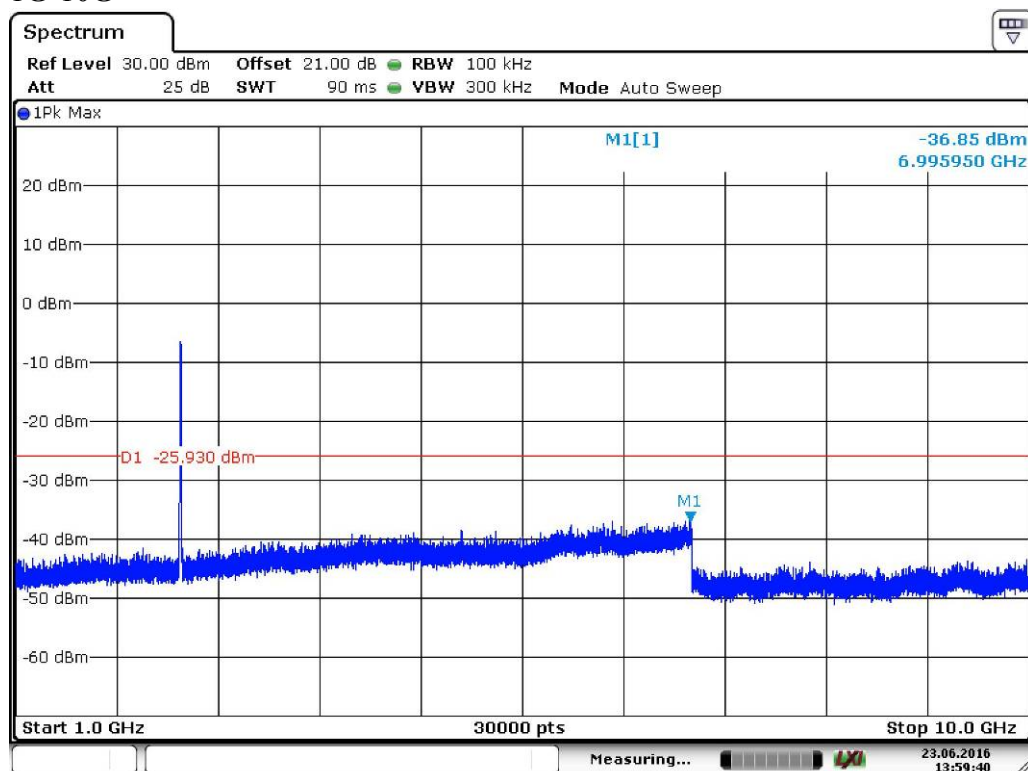
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30M-1G



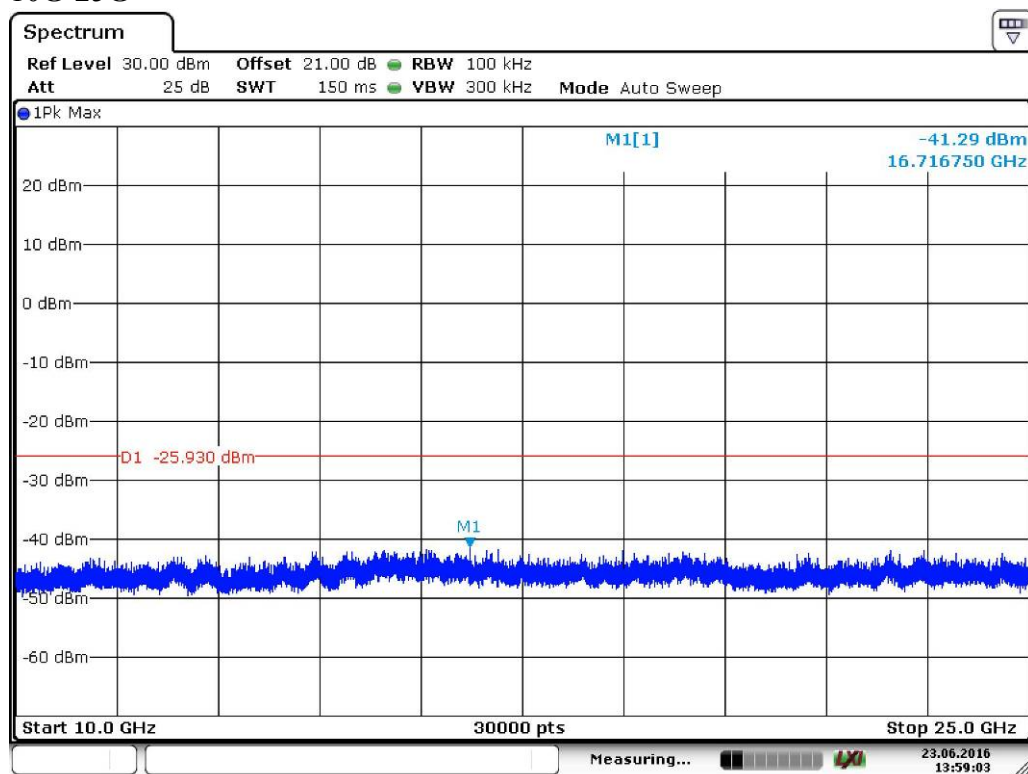
Date: 23.JUN.2016 14:00:01

1G-10G



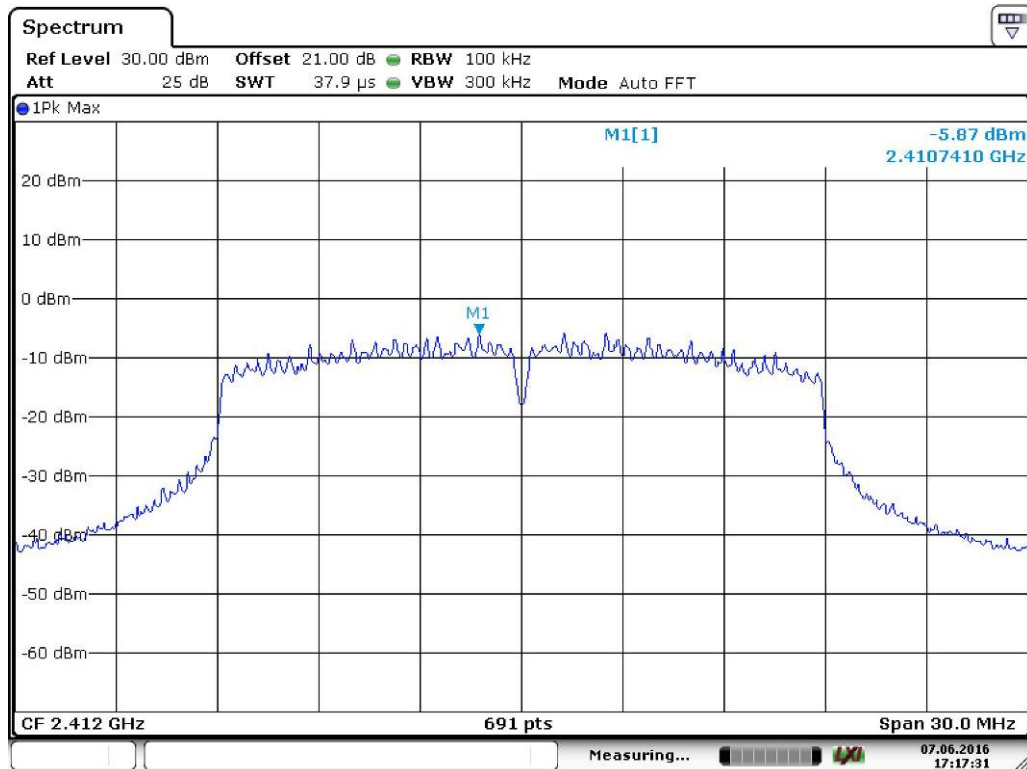
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10G-25G



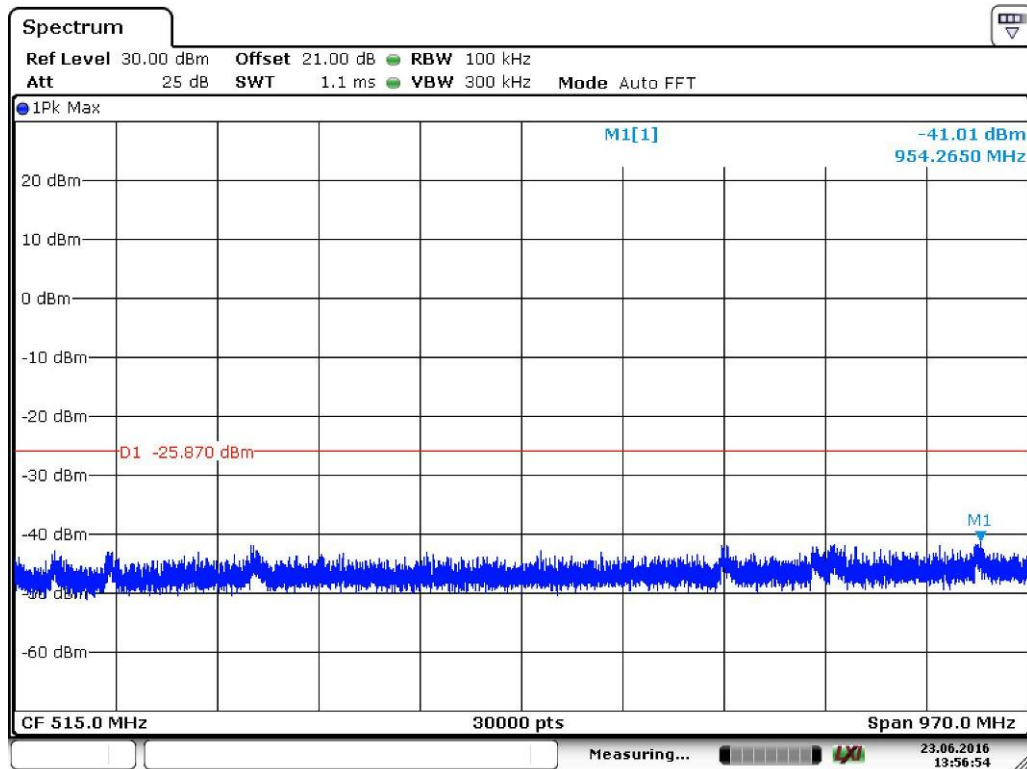
Date: 23. JUN. 2016 13:59:03

802.11n20 mode:
Channel 2412MHz
reference level:



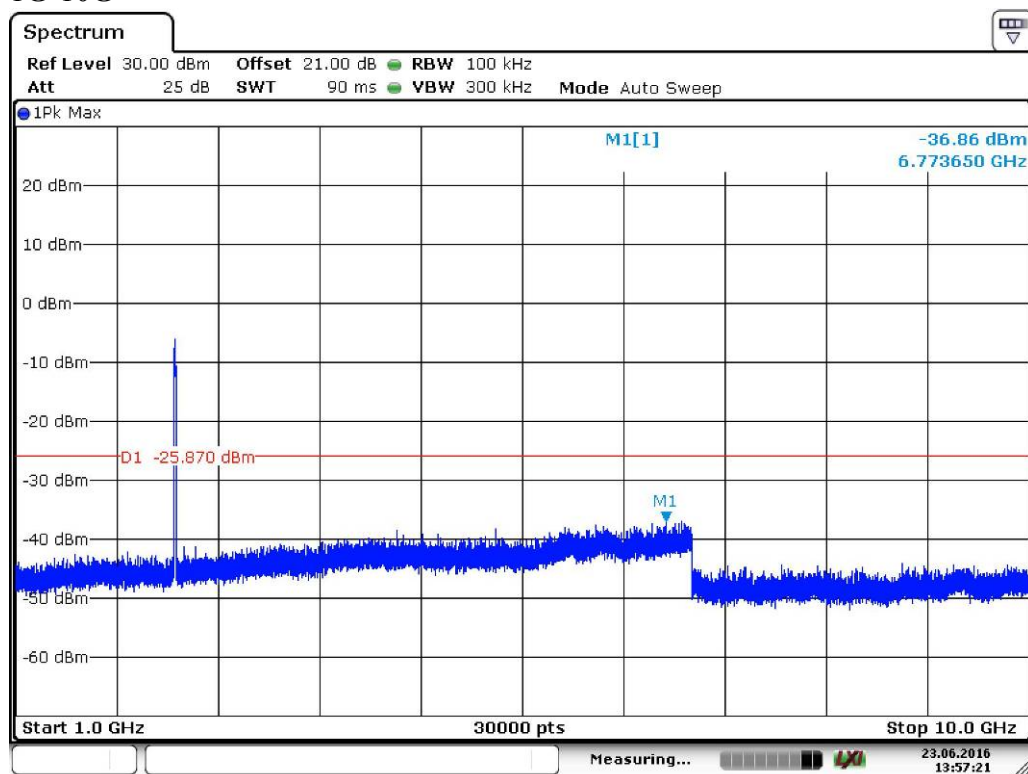
Date: 7.JUN.2016 17:17:31

30M-1G



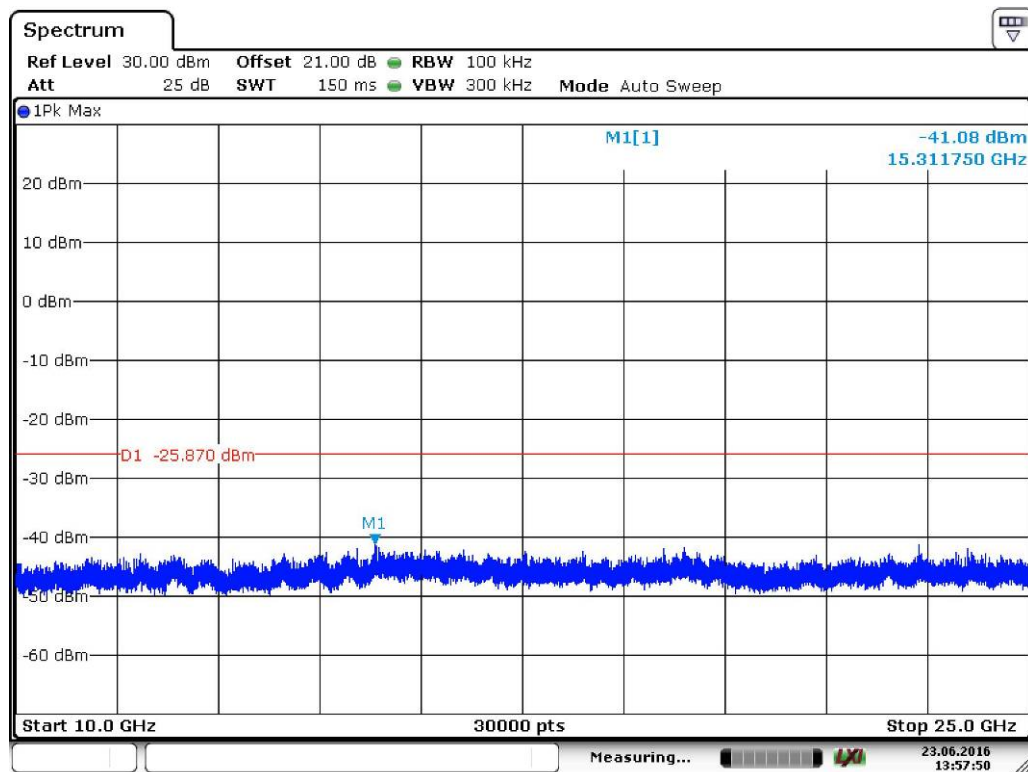
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1G-10G



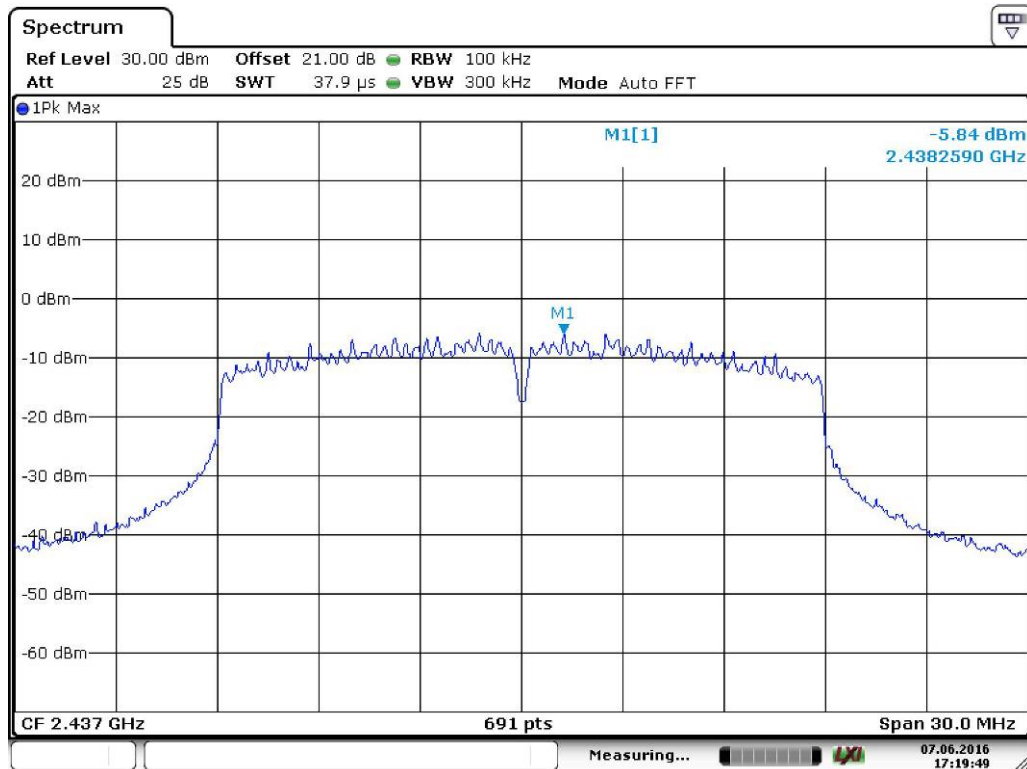
Date: 23.JUN.2016 13:57:20

10G-25G



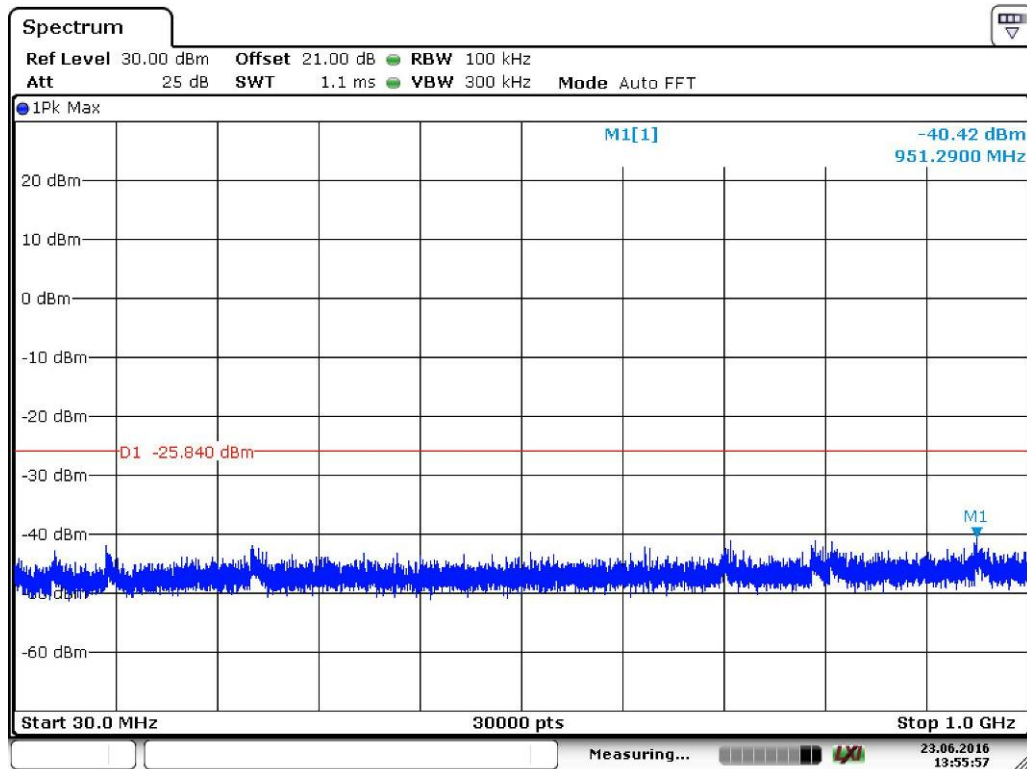
Date: 23.JUN.2016 13:57:50

802.11n20 mode:
Channel 2437MHz
reference level:



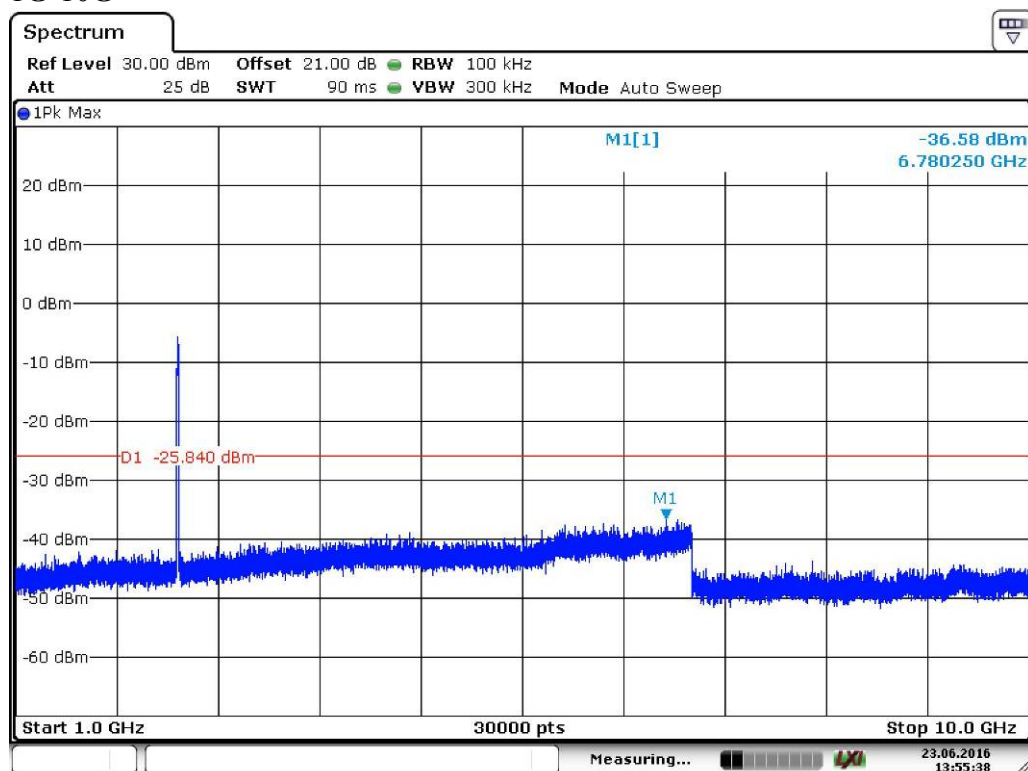
Date: 7.JUN.2016 17:19:49

30M-1G



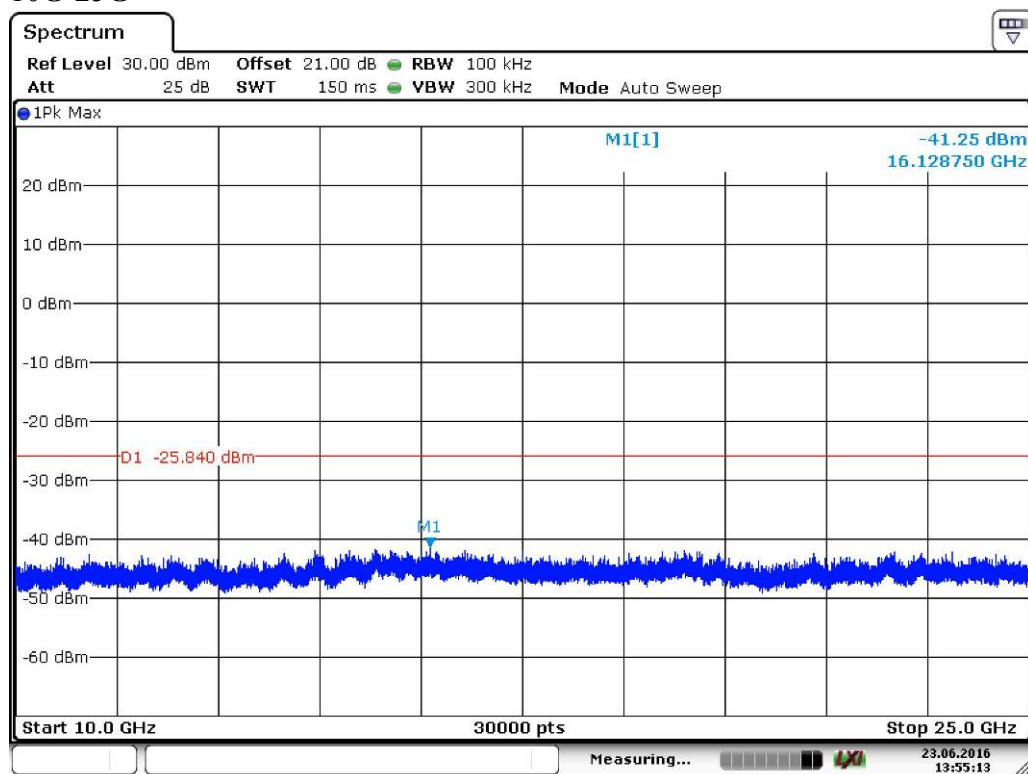
Date: 23.JUN.2016 13:55:57

1G-10G



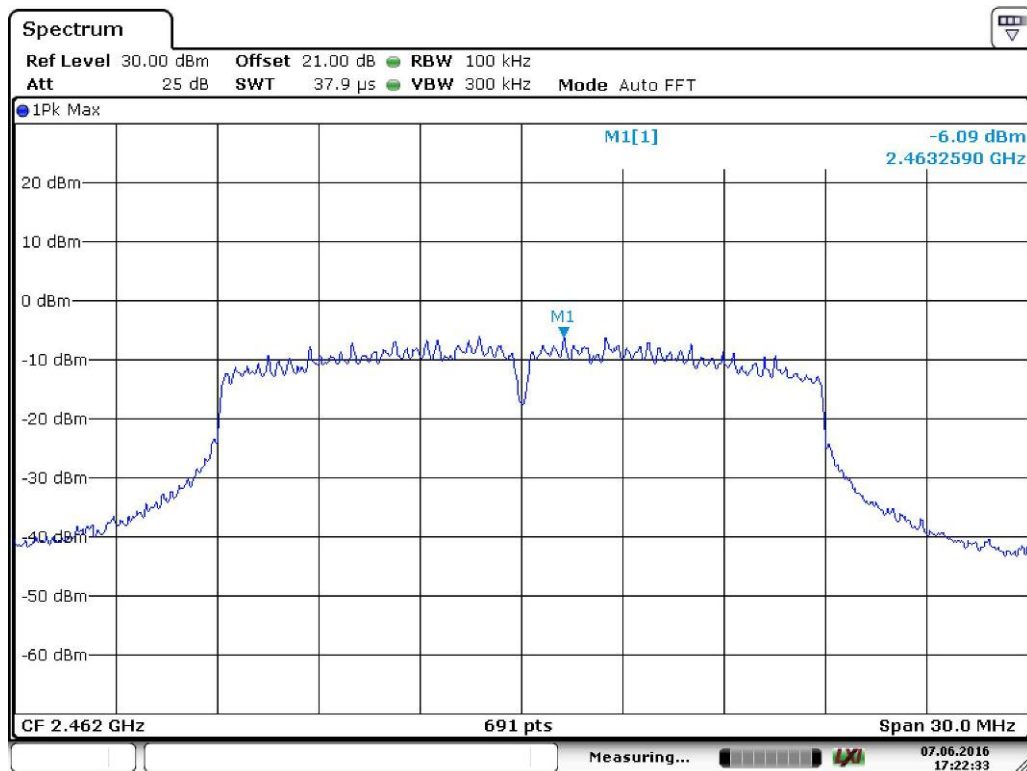
Date: 23.JUN.2016 13:55:38

10G-25G



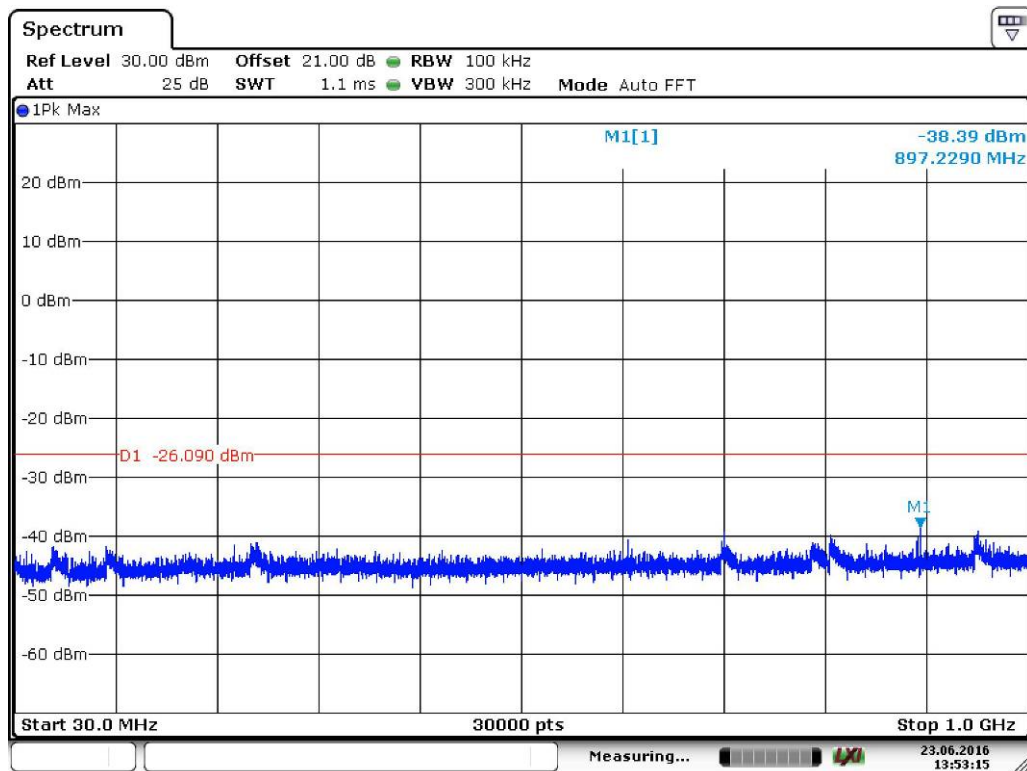
Date: 23.JUN.2016 13:55:13

802.11n20 mode:
Channel 2462MHz
reference level:



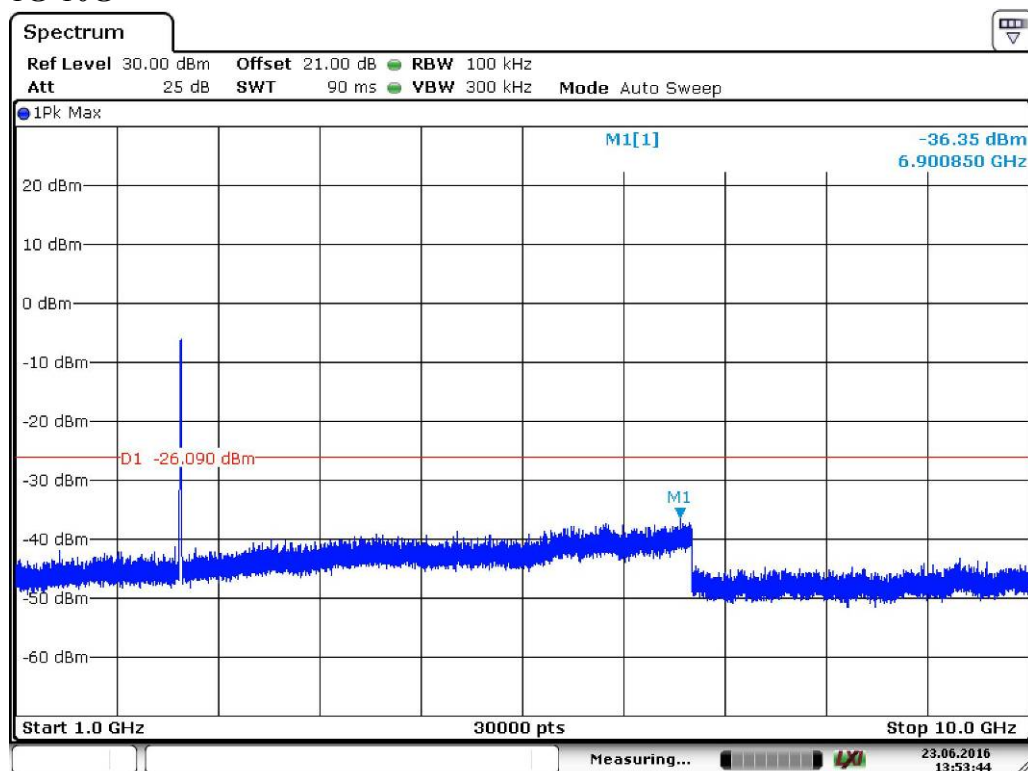
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30M-1G



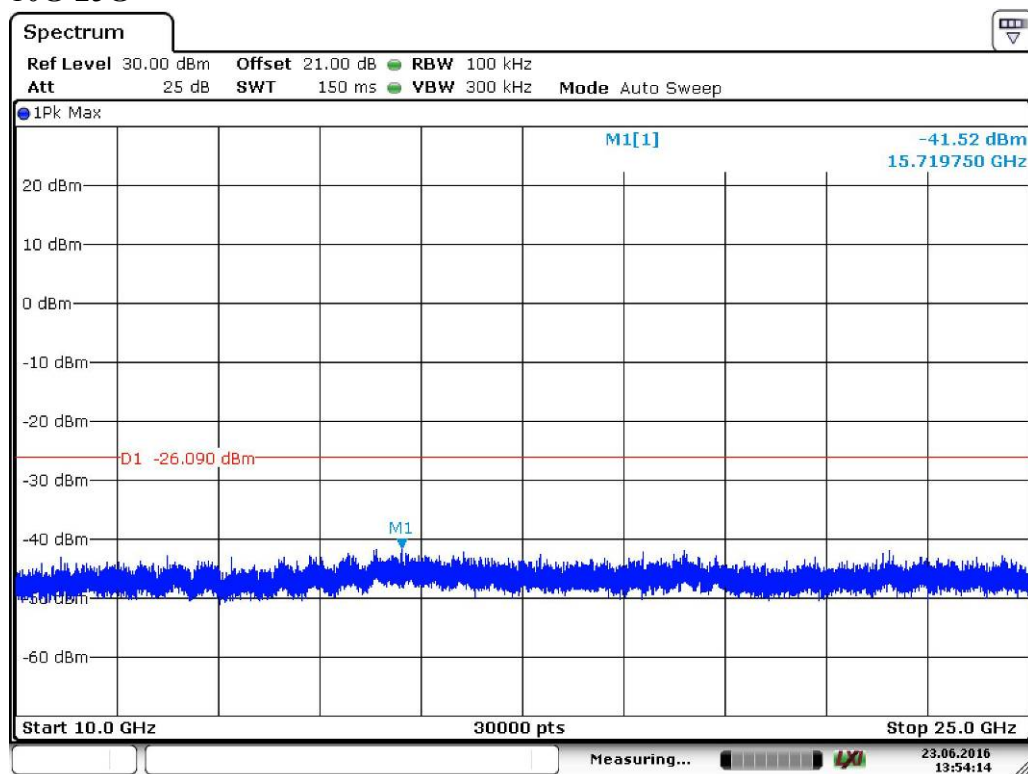
Date: 23.JUN.2016 13:53:15

1G-10G



Date: 23.JUN.2016 13:53:44

10G-25G



Date: 23.JUN.2016 13:54:14

11. EMISSIONS IN RESTRICTED FREQUENCY BANDS

11.1 LIMITS

The DTS rules specify that emissions which fall into restricted frequency bands shall comply with the general radiated emission limits..

11.2 TEST PROCEDURES

Test procedures follow KDB 558074 D01 DTS Meas Guidance v03r05.

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Set the analyzer span to encompass the entire unwanted emission bandwidth above the measurement system noise level.
4. When Detector = peak, Set the RBW = 1 MHz. Set the VBW ≥ 3 MHz. Ensure that the number of measurement points in the sweep $\geq 2 \times (\text{span}/\text{RBW})$. Set sweep time = auto couple. When Detector = average. Set the RBW = 1 MHz. Set the VBW = 10Hz. Ensure that the number of measurement points in the sweep $\geq 2 \times (\text{span}/\text{RBW})$. Set sweep time = auto couple. Employ trace averaging over a minimum of 100 traces.
5. Use the peak marker function to determine the maximum average power level in any 1 MHz of the unwanted emission.
6. Repeat above procedures until all measured frequencies were complete.

Note: If the Peak value below the AV limit, the AV test does not perform for this submission.

Pre-scan all the rate, found that:

11Mbps of rate is the worst case of 802.11b,

54Mbps of rate is the worst case of 802.11g,

MCS7 of rate is the worst case of 802.11n (HT20),

11.3 TEST SETUP

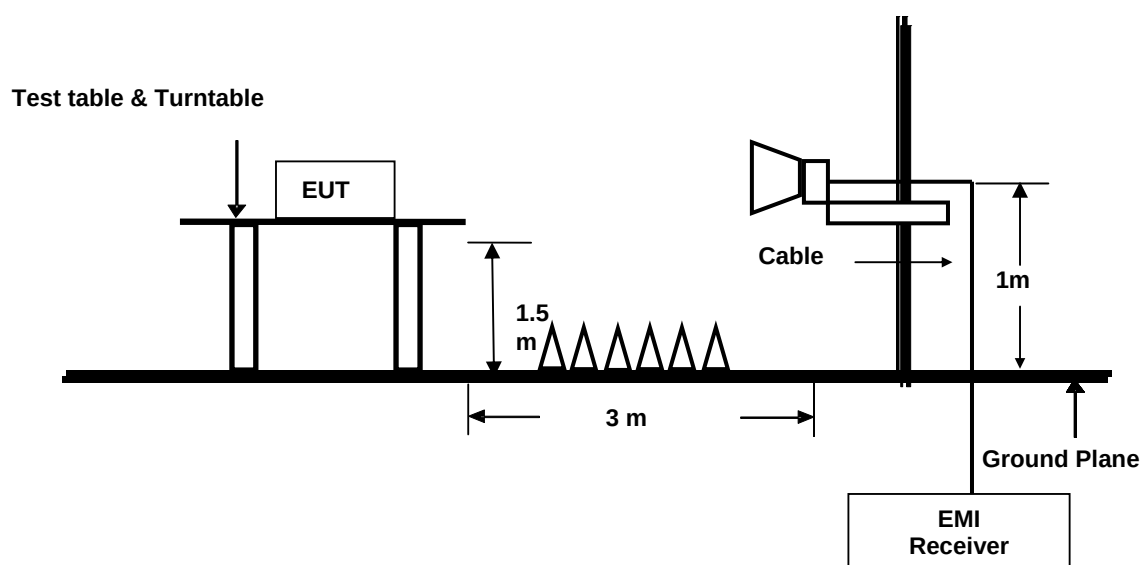
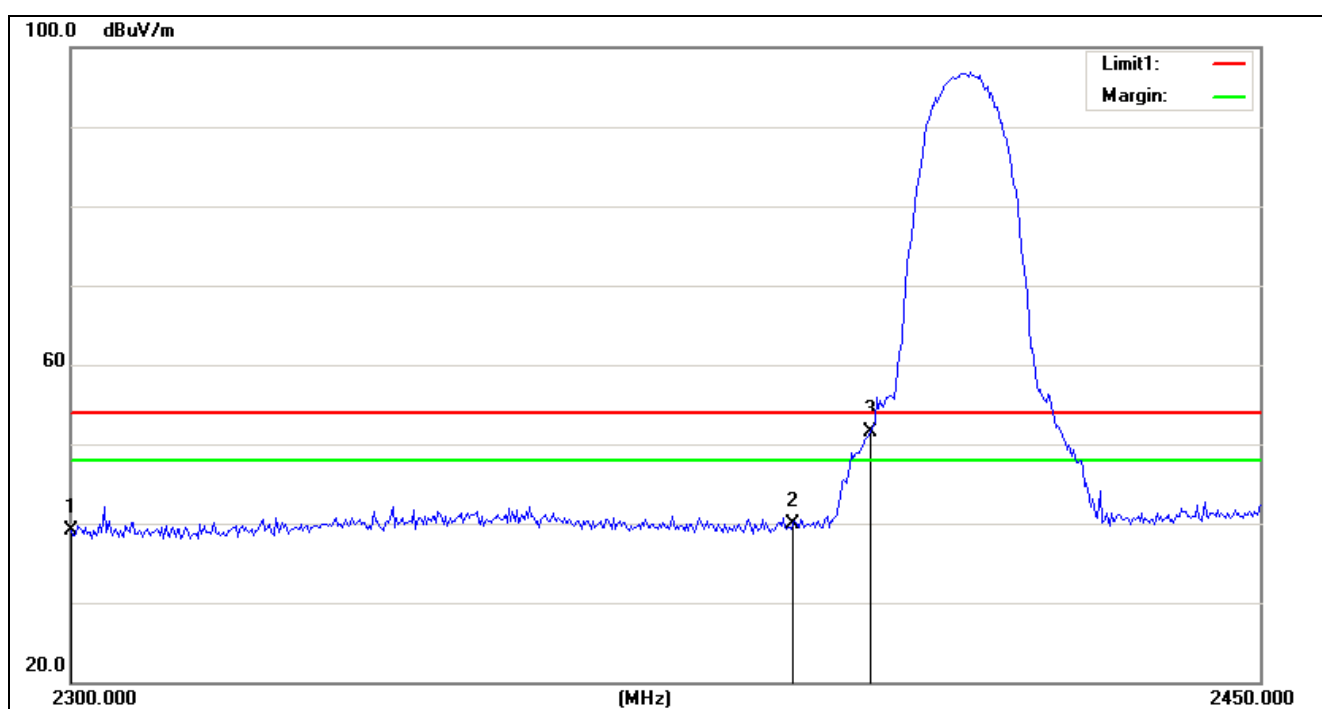


Figure 1. Above 1GHz radiated emissions test configuration

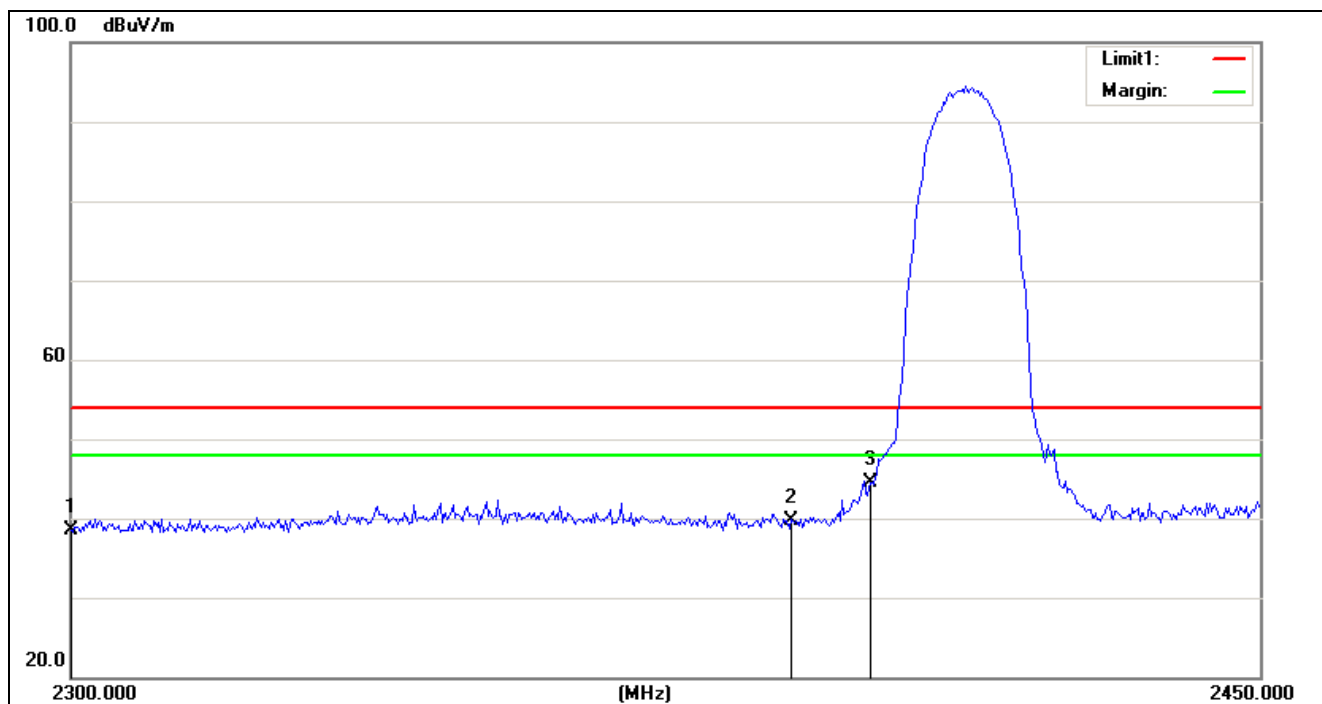
11.4 TEST RESULTS

Project No.:	E201605121202	Polarziation:	Vertical
Standard:	(RE)FCC PART 15 class B 3m_AVG	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	2016-6-14
Temp./Hum.(%RH):	22.5/56%RH	Time:	15:21:20
EUT:	SKY	Distance:	3m
Model:	SKY2	Test Result:	Pass
Note:	802.11b Mode 2412		
Test By:	Shihua Xu		



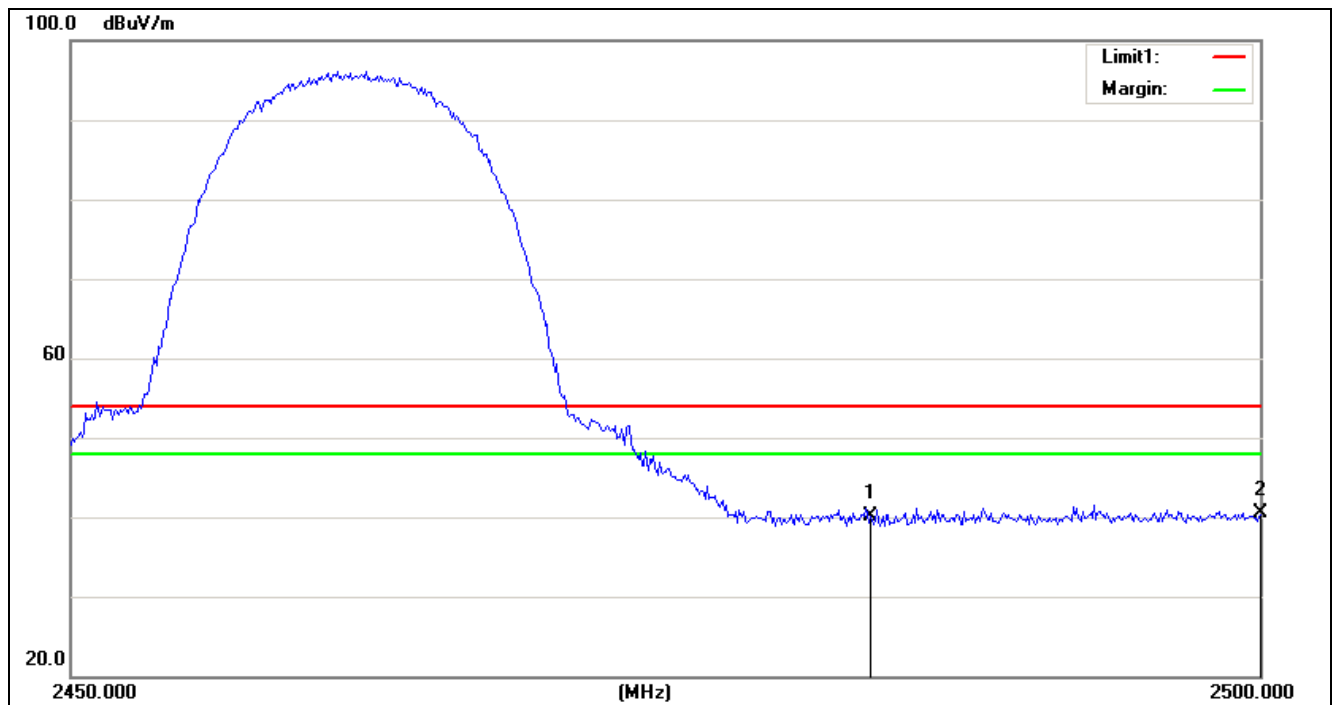
No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2300.000	32.24	6.89	39.13	54.00	-14.87	peak
2	2390.000	32.40	7.41	39.81	54.00	-14.19	peak
3	2400.000	44.08	7.46	51.54	54.00	-2.46	peak

Project No.:	E201605121202	Polarziation:	Horizontal
Standard:	(RE)FCC PART 15 class B 3m_AVG	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	2016-6-14
Temp./Hum.(%RH):	22.5/56%RH	Time:	15:22:15
EUT:	SKY	Distance:	3m
Model:	SKY2	Test Result:	Pass
Note:	802.11b Mode 2412		
Test By:	Shihua Xu		



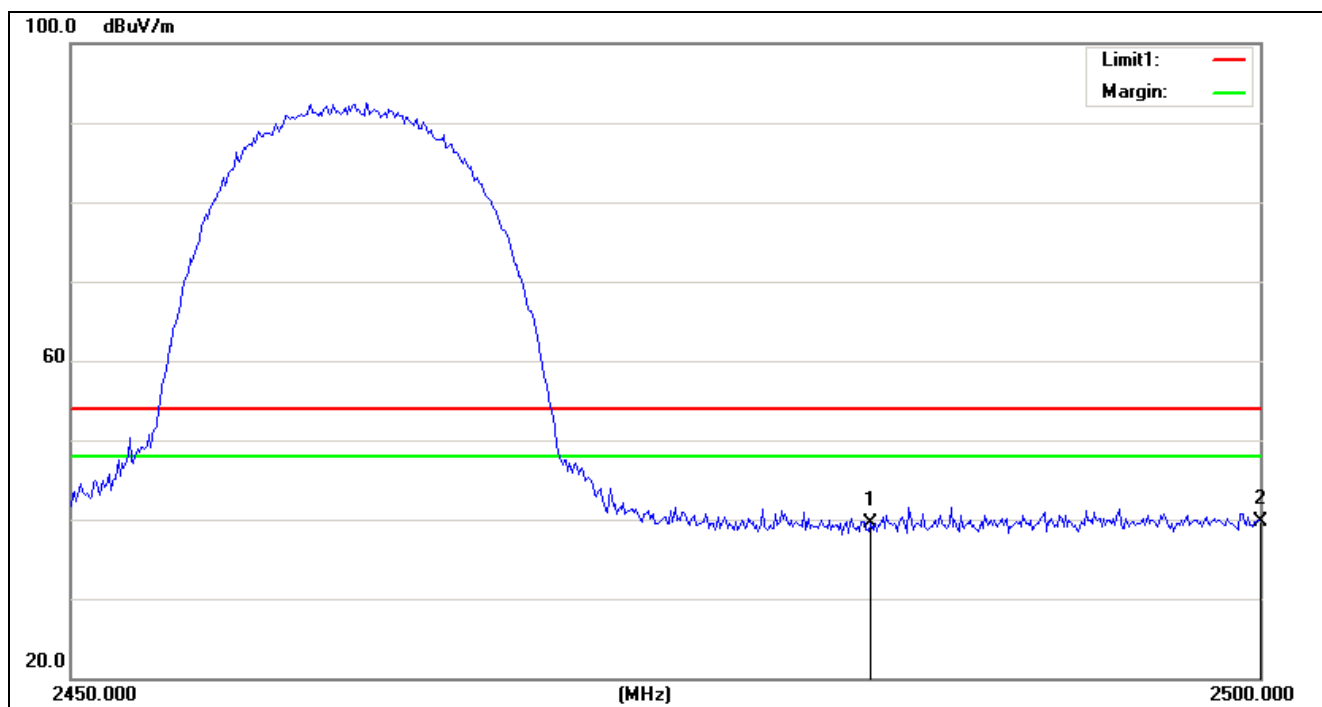
No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2300.000	31.53	6.89	38.42	54.00	-15.58	peak
2	2390.000	32.38	7.41	39.79	54.00	-14.21	peak
3	2400.000	37.11	7.46	44.57	54.00	-9.43	peak

Project No.:	E201605121202	Polarziation:	Vertical
Standard:	(RE)FCC PART 15 class B 3m_AVG	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	2016-6-14
Temp./Hum.(%RH):	22.5/56%RH	Time:	15:25:03
EUT:	SKY	Distance:	3m
Model:	SKY2	Test Result:	Pass
Note:	802.11b Mode 2462		
Test By:	Shihua Xu		



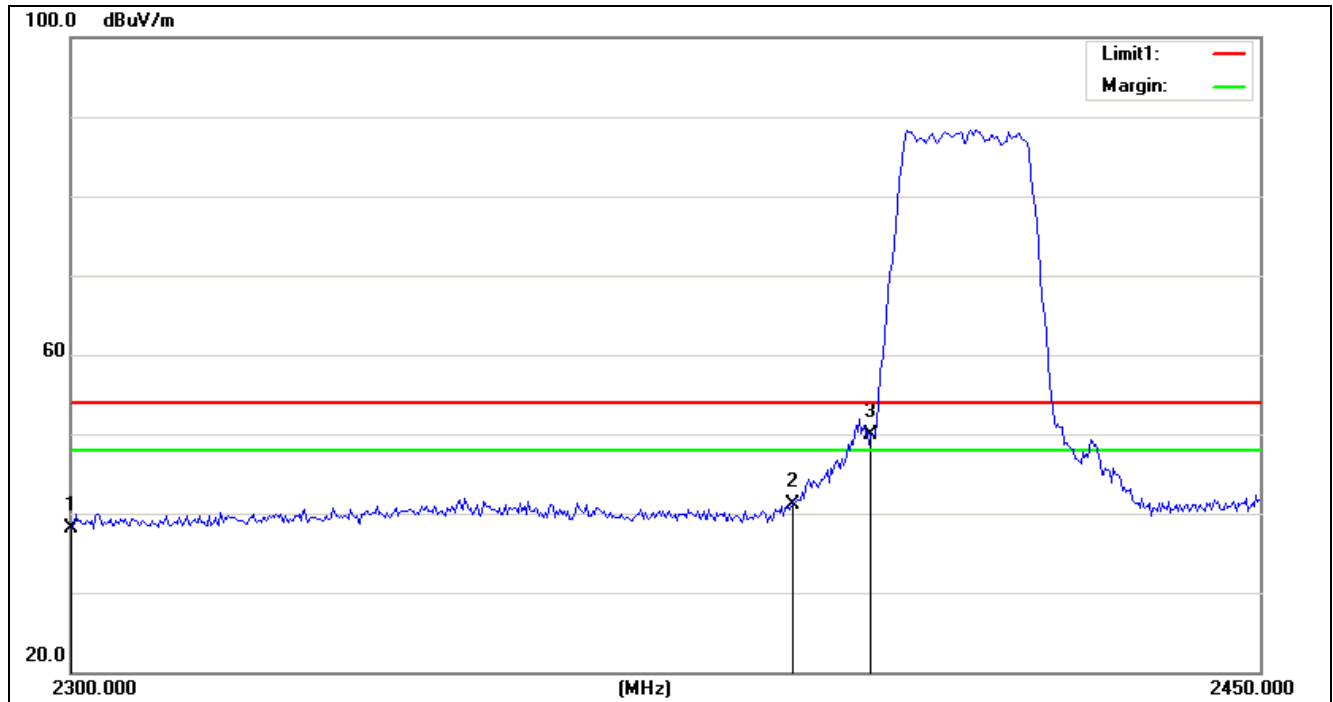
No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	32.15	7.87	40.02	54.00	-13.98	peak
2	2500.000	32.47	7.95	40.42	54.00	-13.58	peak

Project No.:	E201605121202	Polarziation:	Horizontal
Standard:	(RE)FCC PART 15 class B 3m_AVG	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	2016-6-14
Temp./Hum.(%RH):	22.5/56%RH	Time:	15:24:01
EUT:	SKY	Distance:	3m
Model:	SKY2	Test Result:	Pass
Note:	802.11b Mode 2462		
Test By:	Shihua Xu		



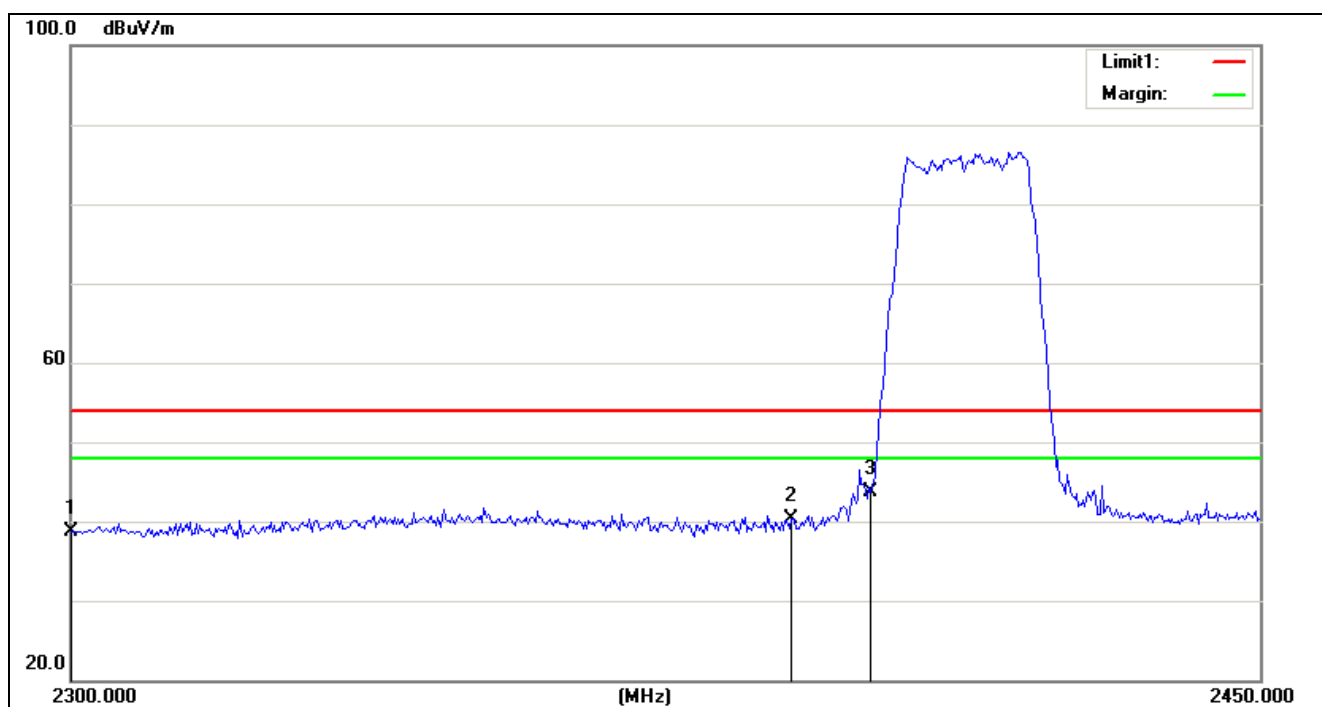
No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	31.69	7.87	39.56	54.00	-14.44	peak
2	2500.000	31.84	7.95	39.79	54.00	-14.21	peak

Project No.:	E201605121202	Polarziation:	Vertical
Standard:	(RE)FCC PART 15 class B 3m_AVG	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	2016-6-14
Temp./Hum.(%RH):	22.5/56%RH	Time:	15:29:22
EUT:	SKY	Distance:	3m
Model:	SKY2	Test Result:	Pass
Note:	802.11g Mode 2412		
Test By:	Shihua Xu		



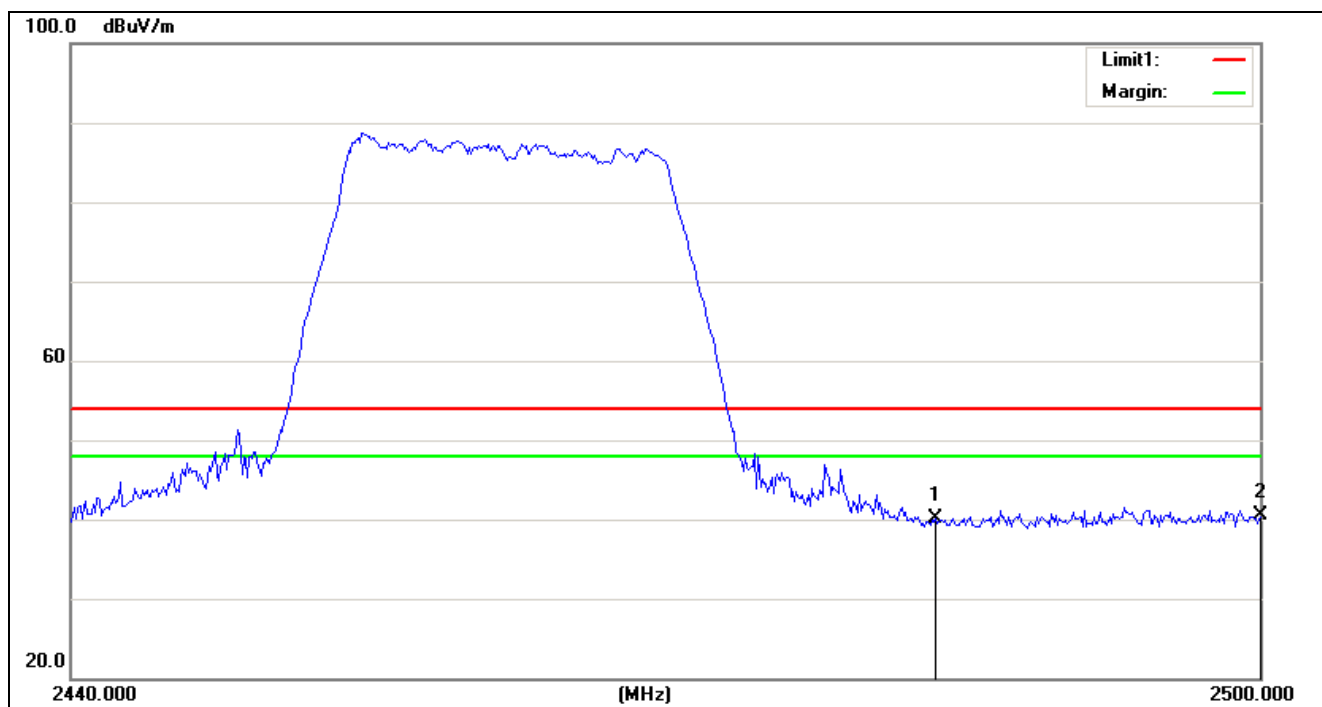
No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2300.000	31.26	6.89	38.15	54.00	-15.85	peak
2	2390.000	33.72	7.41	41.13	54.00	-12.87	peak
3	2400.000	42.50	7.46	49.96	54.00	-4.04	peak

Project No.:	E201605121202	Polarziation:	Horizontal
Standard:	(RE)FCC PART 15 class B 3m_AVG	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	2016-6-14
Temp./Hum.(%RH):	22.5/56%RH	Time:	15:27:42
EUT:	SKY	Distance:	3m
Model:	SKY2	Test Result:	Pass
Note:	802.11g Mode 2412		
Test By:	Shihua Xu		



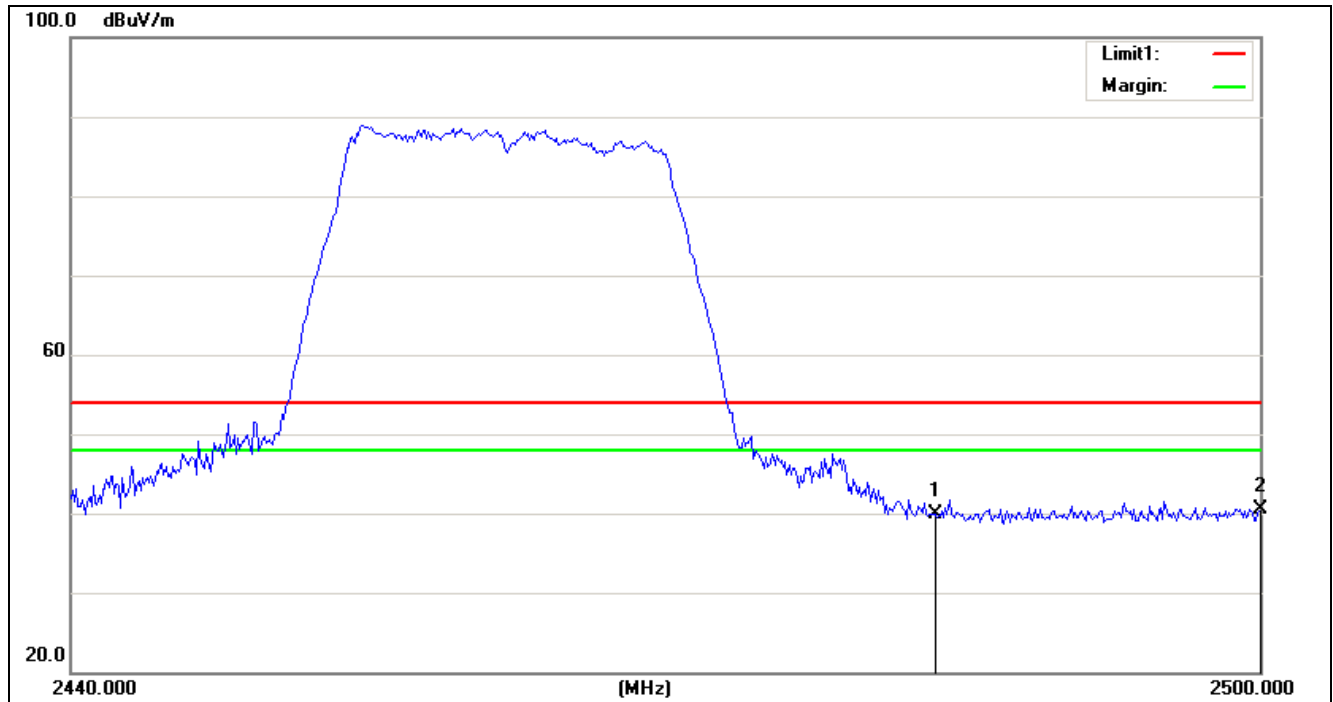
No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2300.000	31.80	6.89	38.69	54.00	-15.31	peak
2	2390.000	32.96	7.41	40.37	54.00	-13.63	peak
3	2400.000	36.26	7.46	43.72	54.00	-10.28	peak

Project No.:	E201605121202	Polarziation:	Vertical
Standard:	(RE)FCC PART 15 class B 3m_AVG	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	2016-6-14
Temp./Hum.(%RH):	22.5/56%RH	Time:	15:31:35
EUT:	SKY	Distance:	3m
Model:	SKY2	Test Result:	Pass
Note:	802.11g Mode 2462		
Test By:	Shihua Xu		



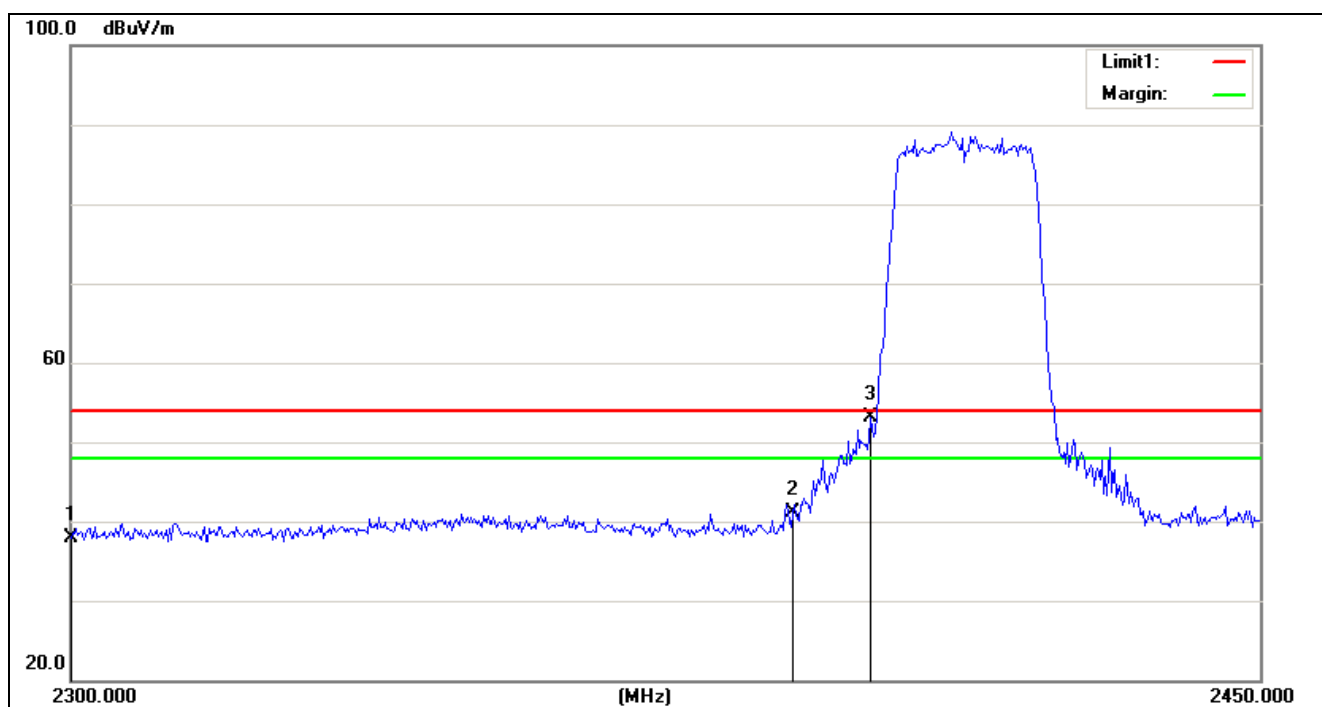
No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	32.18	7.87	40.05	54.00	-13.95	peak
2	2500.000	32.58	7.95	40.53	54.00	-13.47	peak

Project No.:	E201605121202	Polarziation:	Horizontal
Standard:	(RE)FCC PART 15 class B 3m_AVG	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	2016-6-14
Temp./Hum.(%RH):	22.5/56%RH	Time:	15:32:17
EUT:	SKY	Distance:	3m
Model:	SKY2	Test Result:	Pass
Note:	802.11g Mode 2462		
Test By:	Shihua Xu		



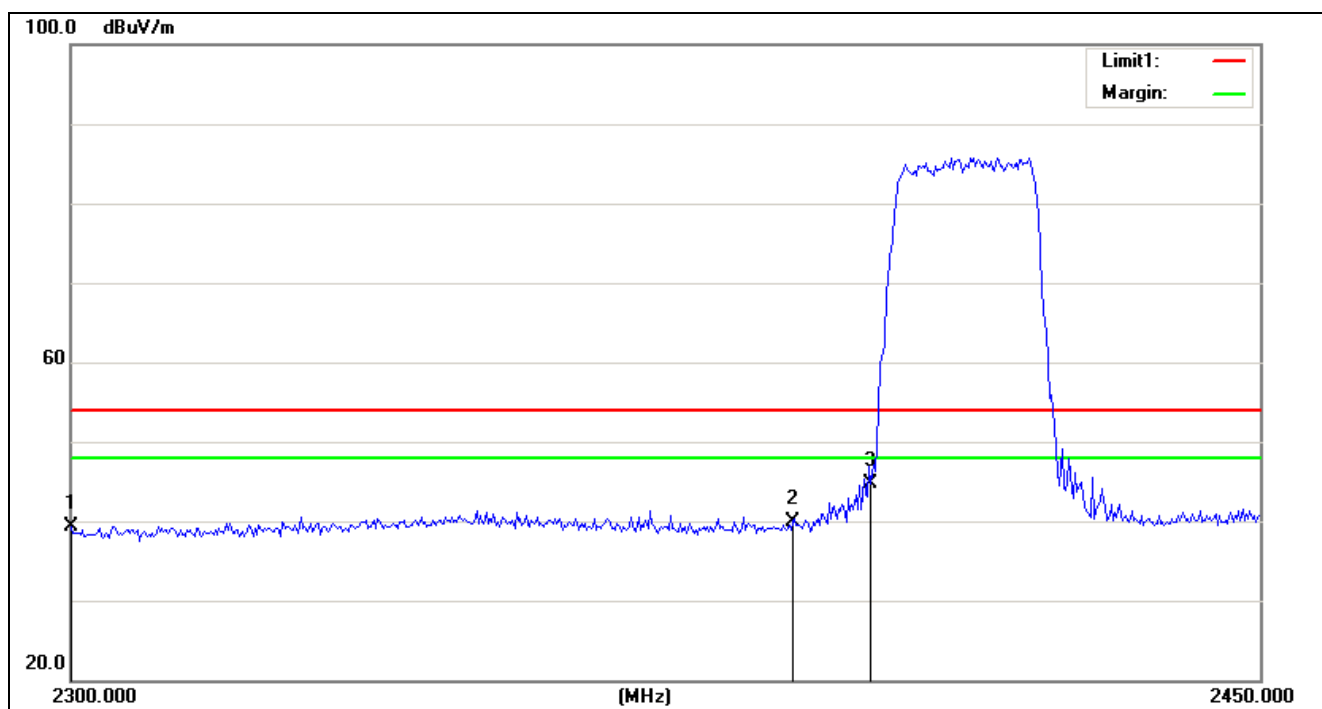
No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	32.00	7.87	39.87	54.00	-14.13	peak
2	2500.000	32.64	7.95	40.59	54.00	-13.41	peak

Project No.:	E201605121202	Polarziation:	Vertical
Standard:	(RE)FCC PART 15 class B 3m_AVG	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	2016-6-14
Temp./Hum.(%RH):	22.5/56%RH	Time:	15:40:08
EUT:	SKY	Distance:	3m
Model:	SKY2	Test Result:	Pass
Note:	802.11g Mode 2412		
Test By:	Shihua Xu		



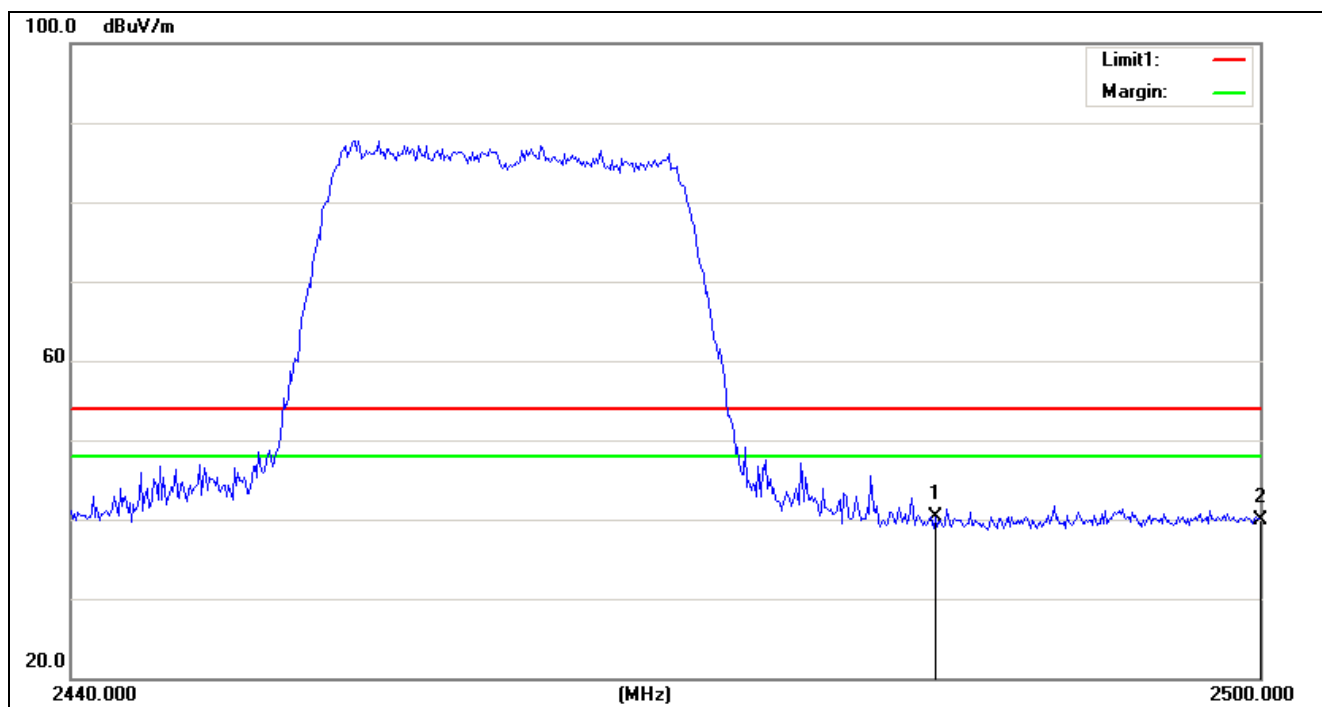
No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2300.000	31.05	6.89	37.94	54.00	-16.06	peak
2	2390.000	33.61	7.41	41.02	54.00	-12.98	peak
3	2400.000	45.69	7.46	53.15	54.00	-0.85	peak

Project No.:	E201605121202	Polarziation:	Horizontal
Standard:	(RE)FCC PART 15 class B 3m_AVG	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	2016-6-14
Temp./Hum.(%RH):	22.5/56%RH	Time:	15:38:35
EUT:	SKY	Distance:	3m
Model:	SKY2	Test Result:	Pass
Note:	802.11g Mode 2412		
Test By:	Shihua Xu		



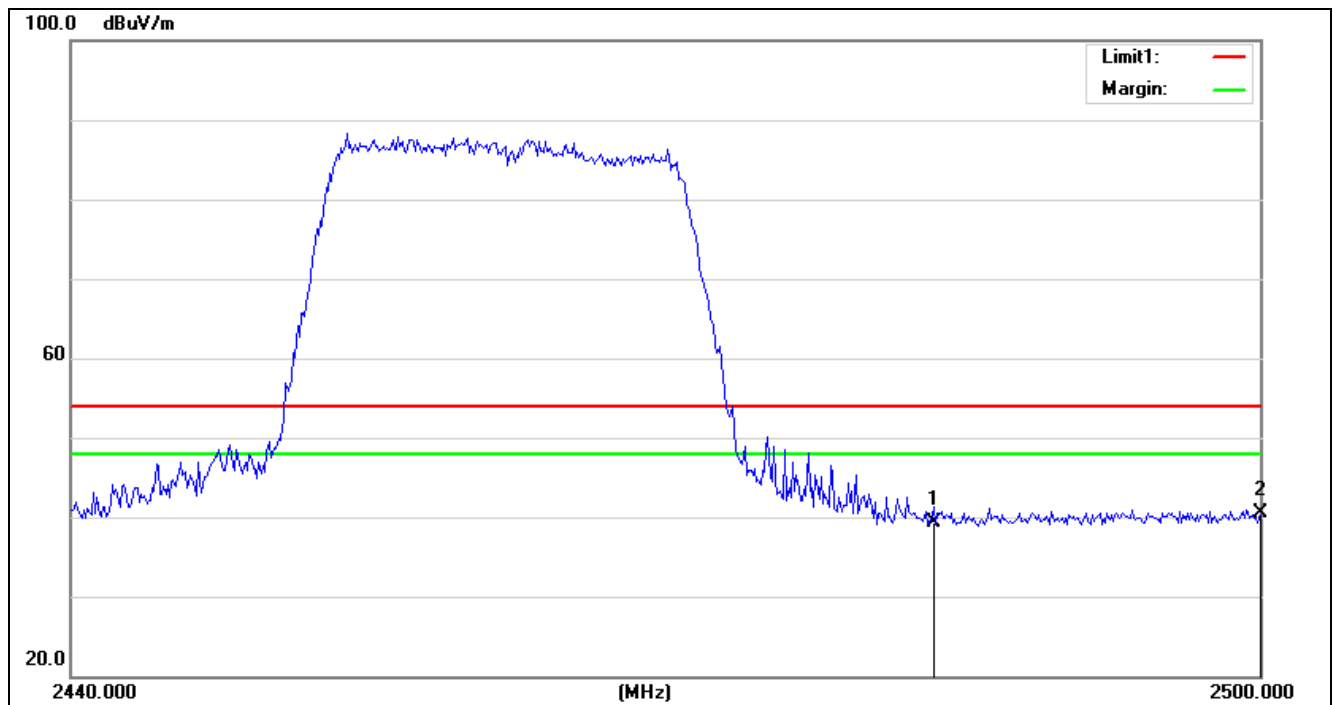
No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2300.000	32.36	6.89	39.25	54.00	-14.75	peak
2	2390.000	32.53	7.41	39.94	54.00	-14.06	peak
3	2400.000	37.33	7.46	44.79	54.00	-9.21	peak

Project No.:	E201605121202	Polarziation:	Vertical
Standard:	(RE)FCC PART 15 class B 3m_AVG	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	2016-6-14
Temp./Hum.(%RH):	22.5/56%RH	Time:	15:34:58
EUT:	SKY	Distance:	3m
Model:	SKY2	Test Result:	Pass
Note:	802.11g Mode 2462		
Test By:	Shihua Xu		



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	32.43	7.87	40.30	54.00	-13.70	peak
2	2500.000	31.92	7.95	39.87	54.00	-14.13	peak

Project No.:	E201605121202	Polarziation:	Horizontal
Standard:	(RE)FCC PART 15 class B 3m_AVG	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	2016-6-14
Temp./Hum.(%RH):	22.5/56%RH	Time:	15:34:09
EUT:	SKY	Distance:	3m
Model:	SKY2	Test Result:	Pass
Note:	802.11g Mode 2462		
Test By:	Shihua Xu		



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	31.33	7.87	39.20	54.00	-14.80	peak
2	2500.000	32.47	7.95	40.42	54.00	-13.58	peak

Note: factor =Cable loss+ Space loss-Antenna factor-Amplifier

12. BAND-EDGE MEASUREMENTS

12.1 LIMITS

FCC 15.247(d) & 15.209

12.2 TEST PROCEDURES

Test procedures follow KDB 558074 D01 DTS Measurement Guidance v03r05.

Remove the antenna from the EUT and then connect a low attenuation cable from the antenna port to the spectrum.

1. Reference level measurement

Below 1GHz Set the spectrum analyzer: RBW =100KHz VBW $\geq 3 \times$ RBW, Set the span to ≥ 1.5 times the DTS bandwidth. Sweep = auto; Detector Function = peak. Trace = Max-hold. Allow the trace to stabilize.

2. Set the spectrum analyzer: RBW =100KHz VBW $\geq 3 \times$ RBW, Set the span to ≥ 1.5 times the DTS bandwidth. Sweep = auto; Detector Function = peak. Trace = Max-hold. Allow the trace to stabilize.

Remark:

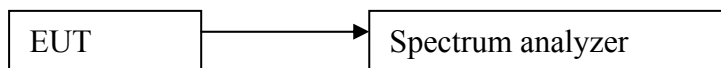
Pre-scan all the rate, found that:

11Mbps of rate is the worst case of 802.11b,

54Mbps of rate is the worst case of 802.11g,

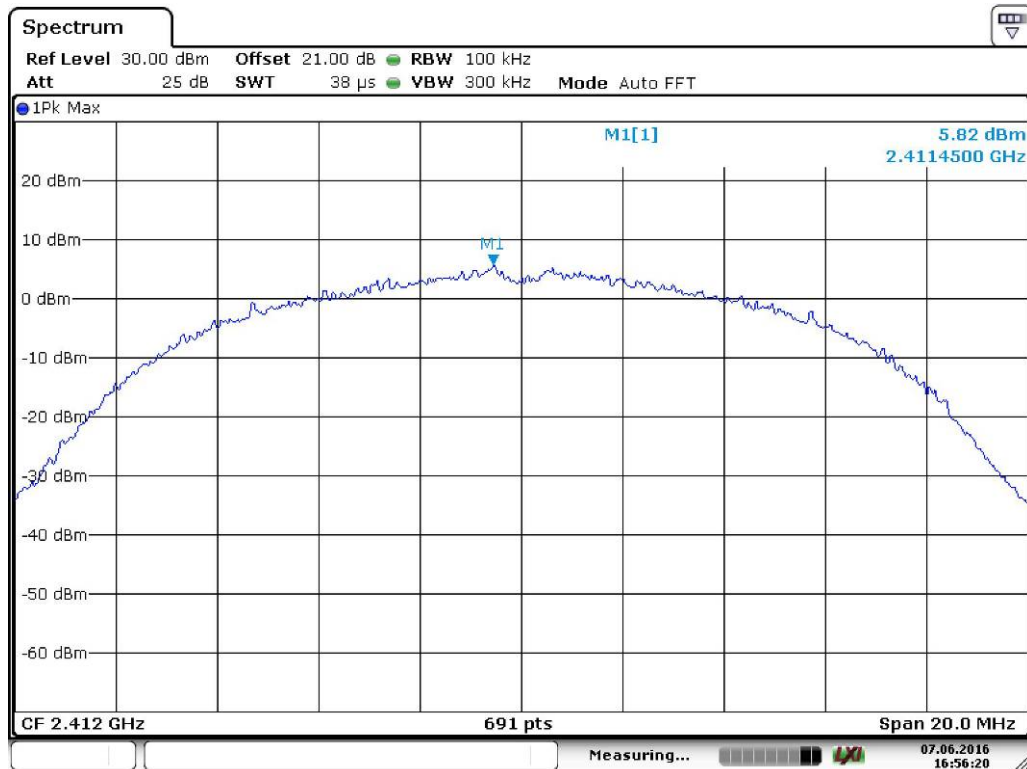
MCS7 of rate is the worst case of 802.11n (HT20),

12.3 TEST SETUP



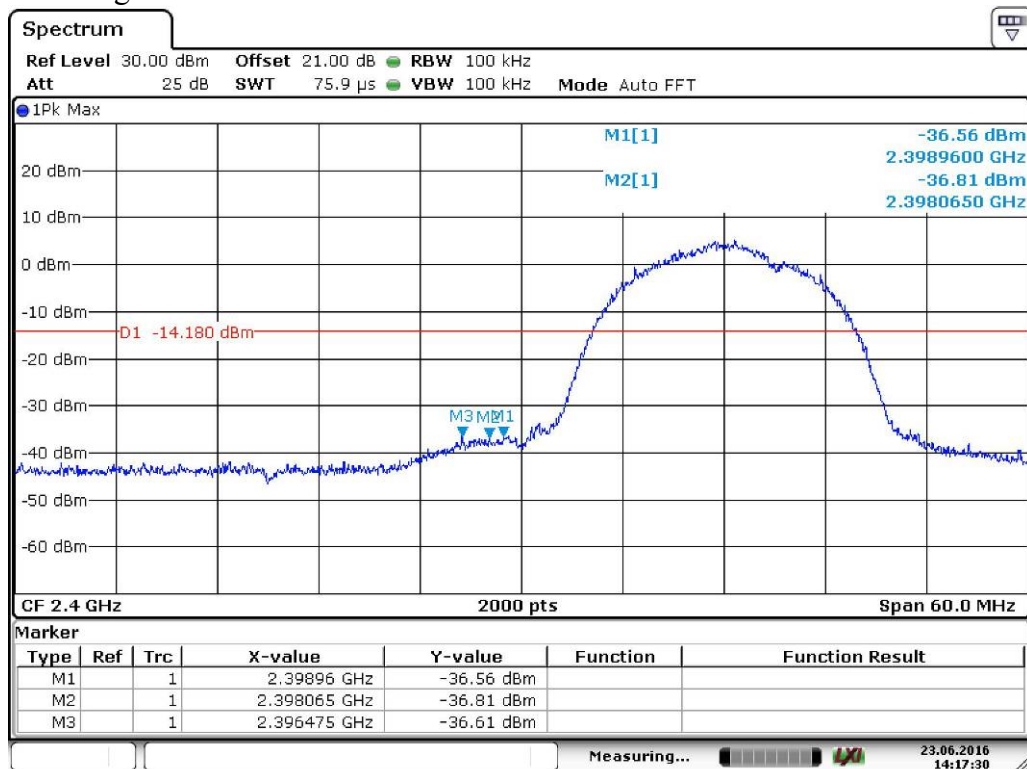
12.4 TEST RESULTS

802.11b mode:
Channel 2412MHz
reference level:



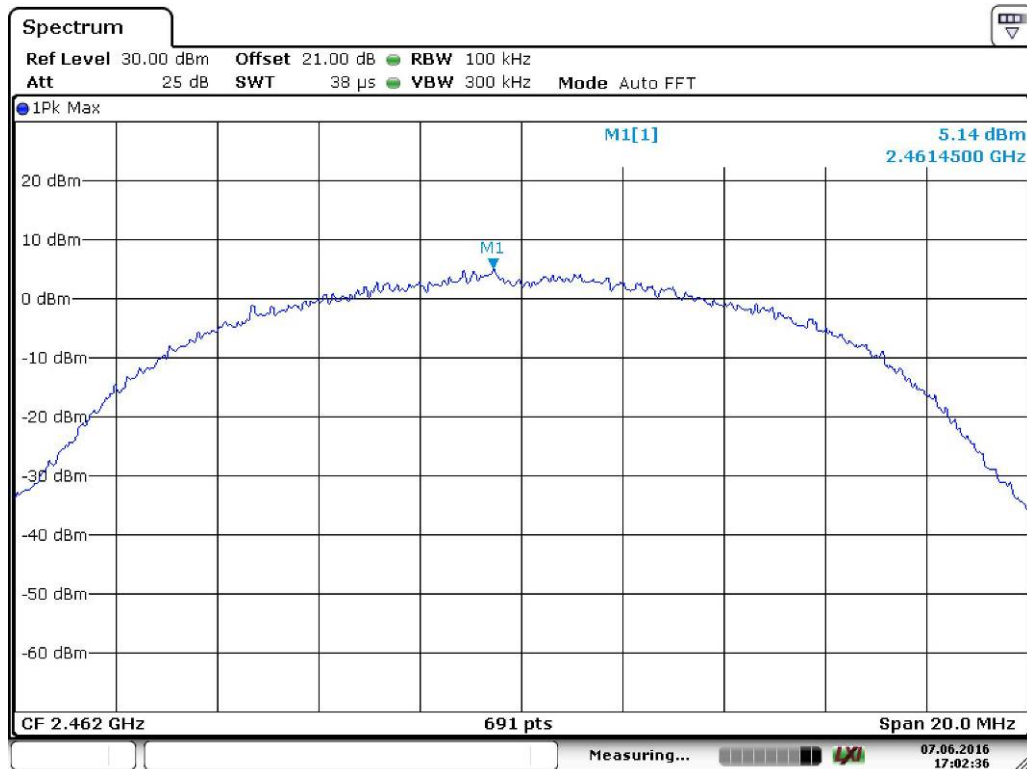
Date: 7.JUN.2016 16:56:21

Band edge:



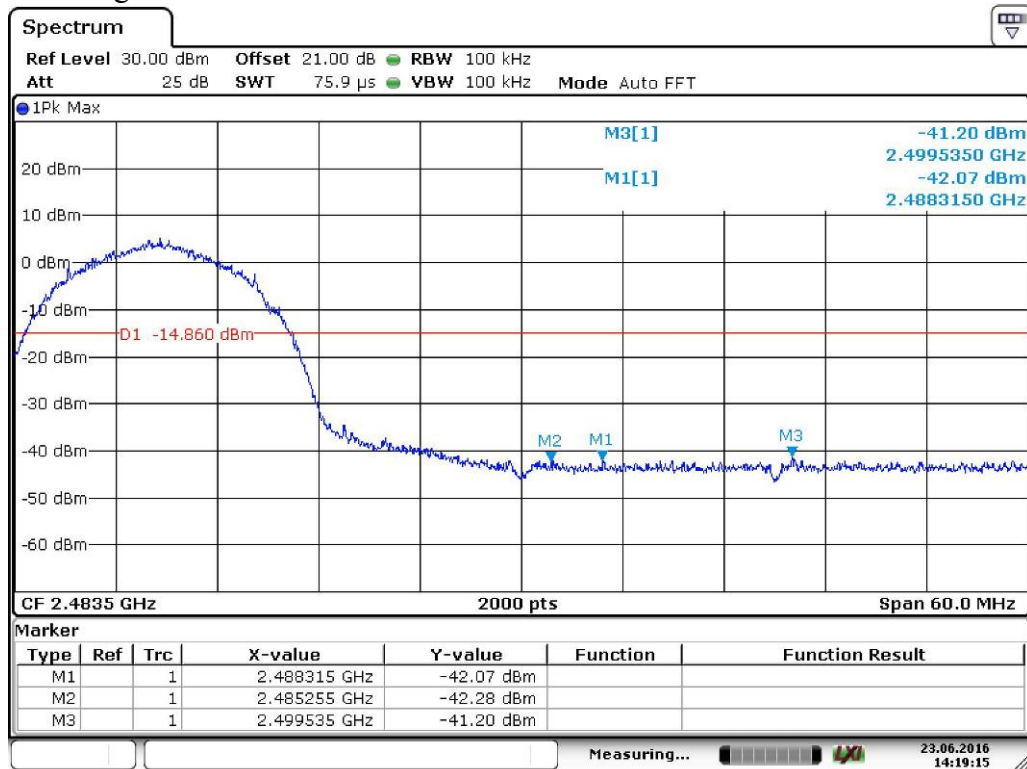
Date: 23.JUN.2016 14:17:30

802.11b mode:
Channel 2462MHz
reference level:



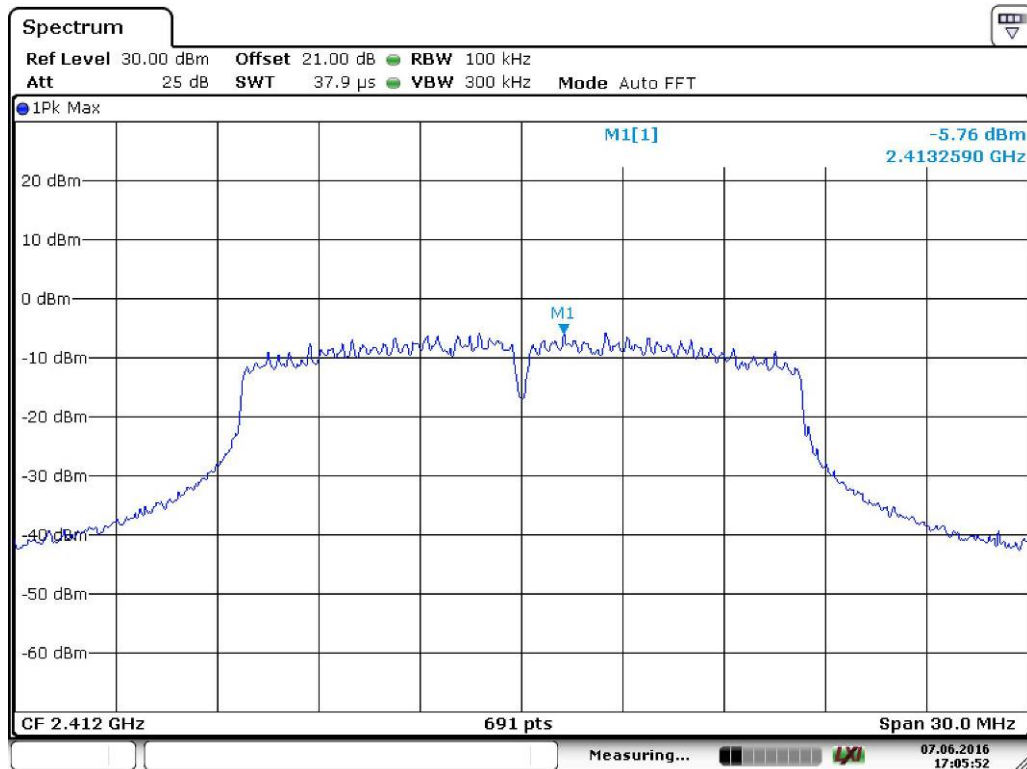
Date: 7.JUN.2016 17:02:35

Band edge:



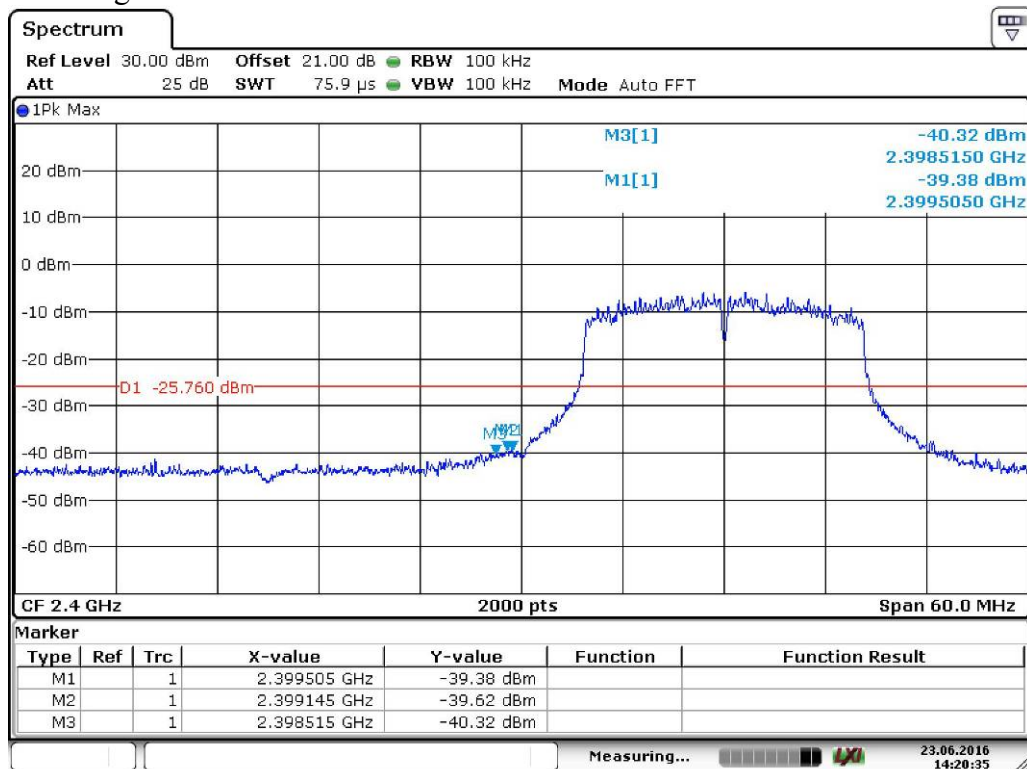
Date: 23.JUN.2016 14:19:15

802.11g mode:
Channel 2412MHz
reference level:



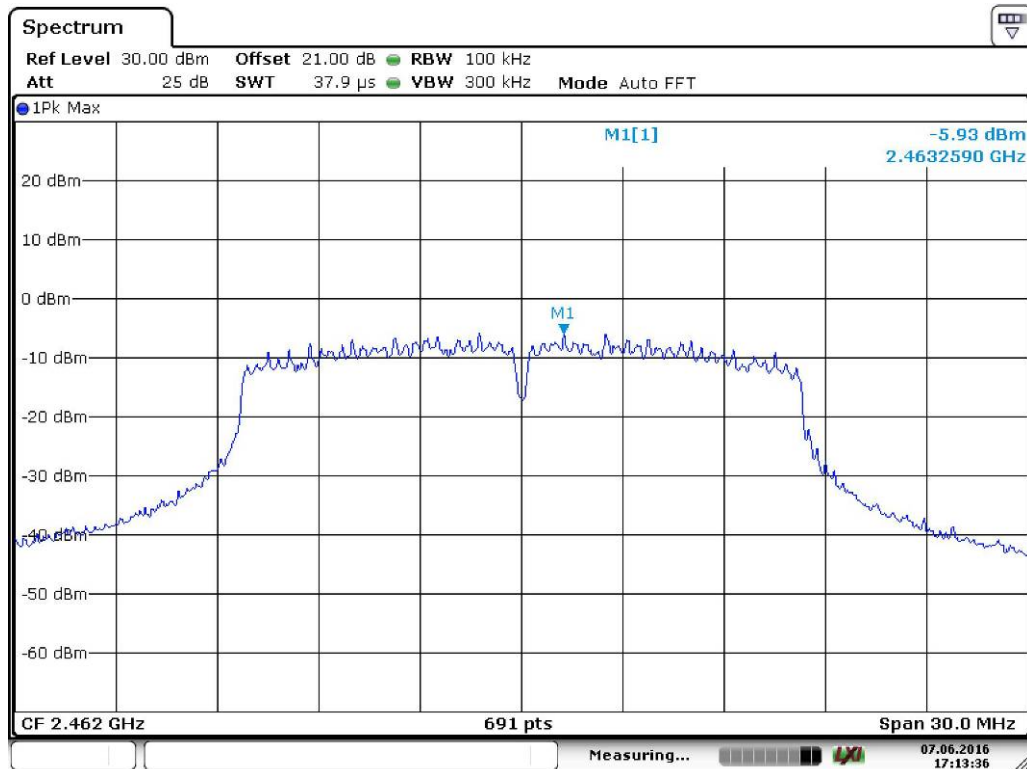
Date: 7.JUN.2016 17:05:52

Band edge:



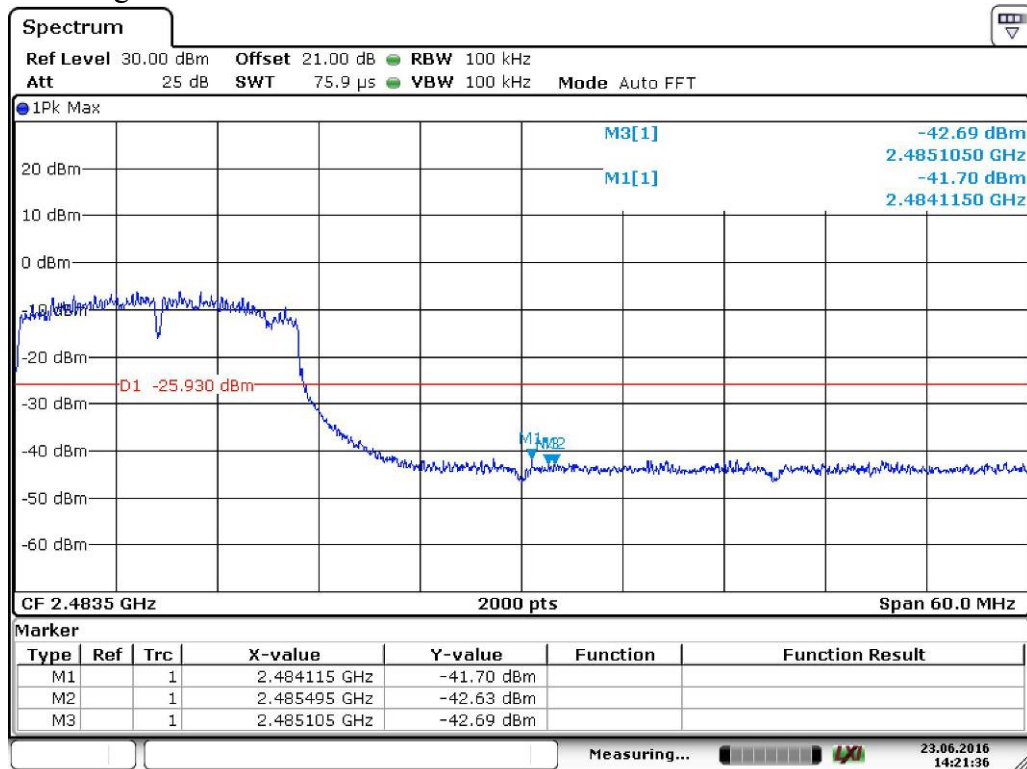
Date: 23.JUN.2016 14:20:35

802.11g mode:
Channel 2462MHz
reference level:



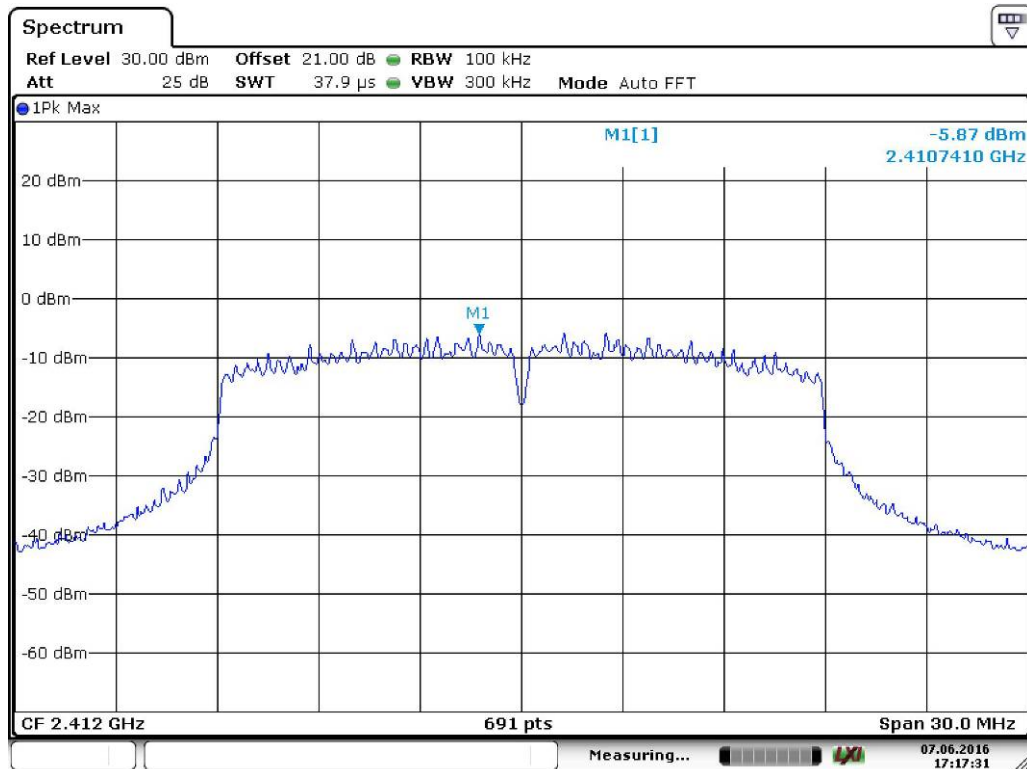
Date: 7.JUN.2016 17:13:36

Band edge:



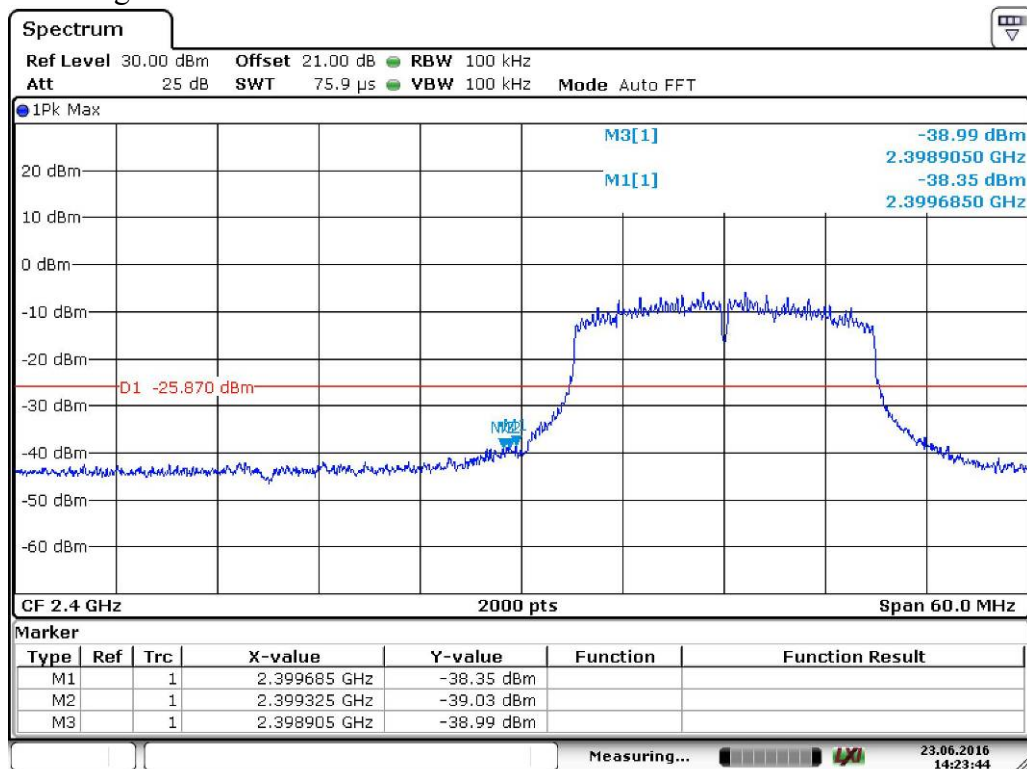
Date: 23.JUN.2016 14:21:36

802.11n20 mode:
Channel 2412MHz
reference level:



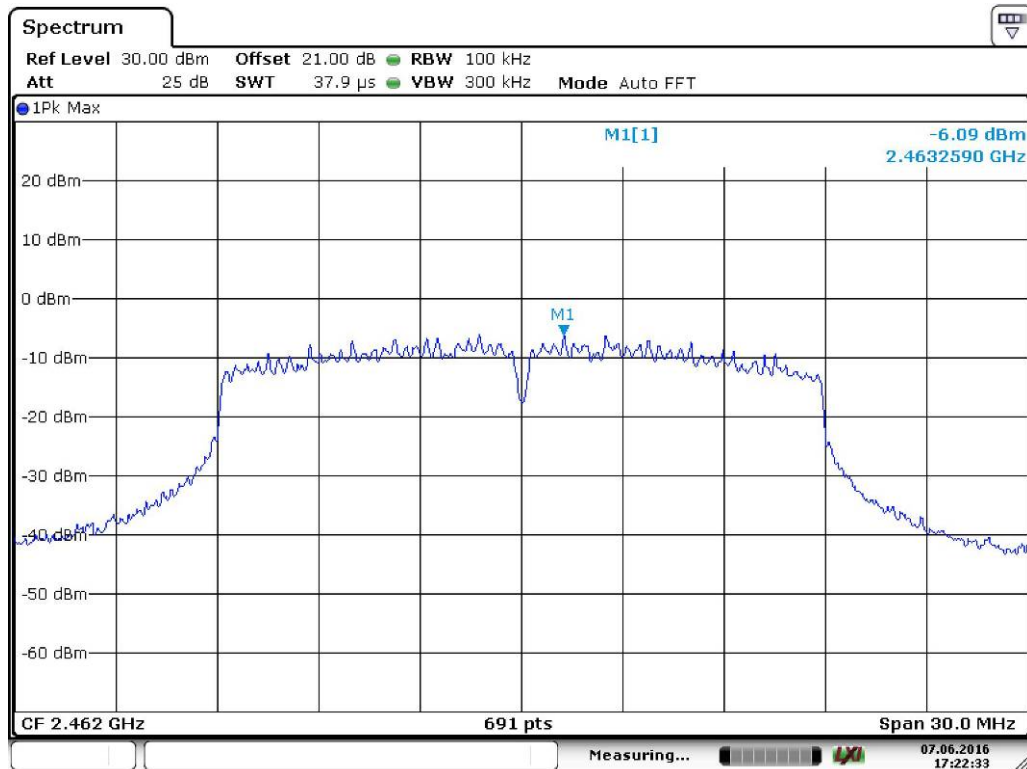
Date: 7.JUN.2016 17:17:31

Band edge:



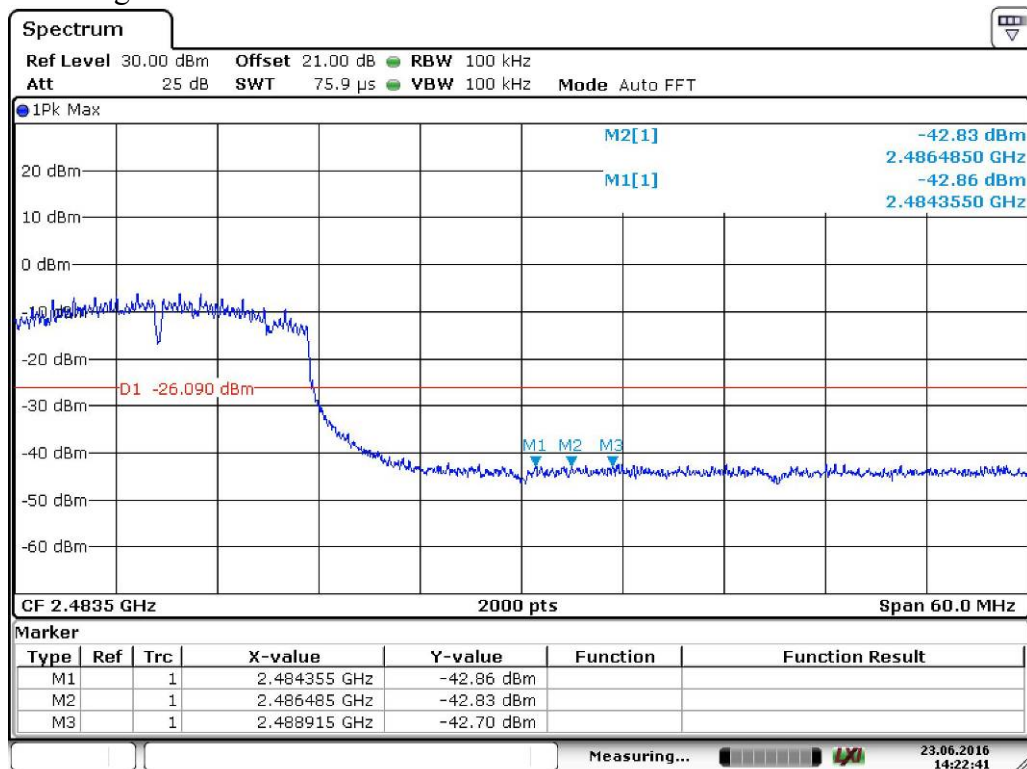
Date: 23.JUN.2016 14:23:43

802.11n20 mode:
Channel 2462MHz
reference level:



Date: 7.JUN.2016 17:22:34

Band edge:



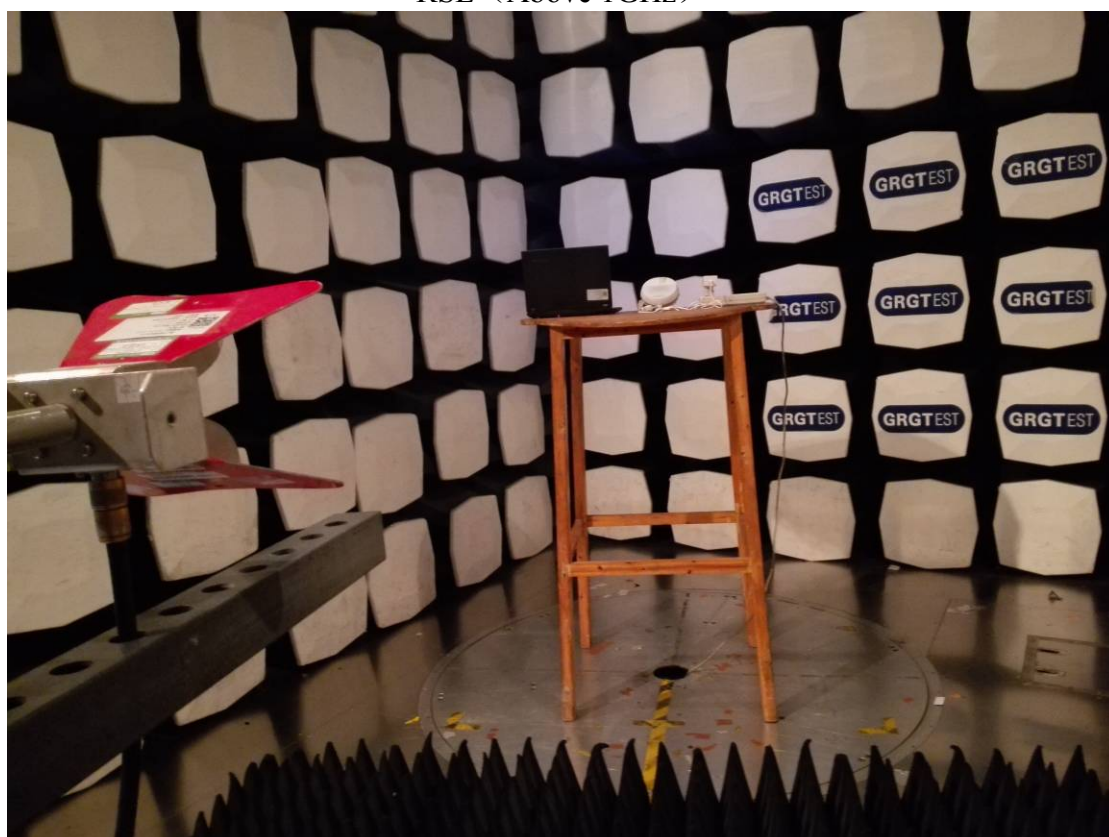
Date: 23.JUN.2016 14:22:40

APPENDIX A: PHOTOGRAPH OF THE TEST ARRANGEMENT

RSE (Below 1GHz)



RSE (Above 1GHz)



CE



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