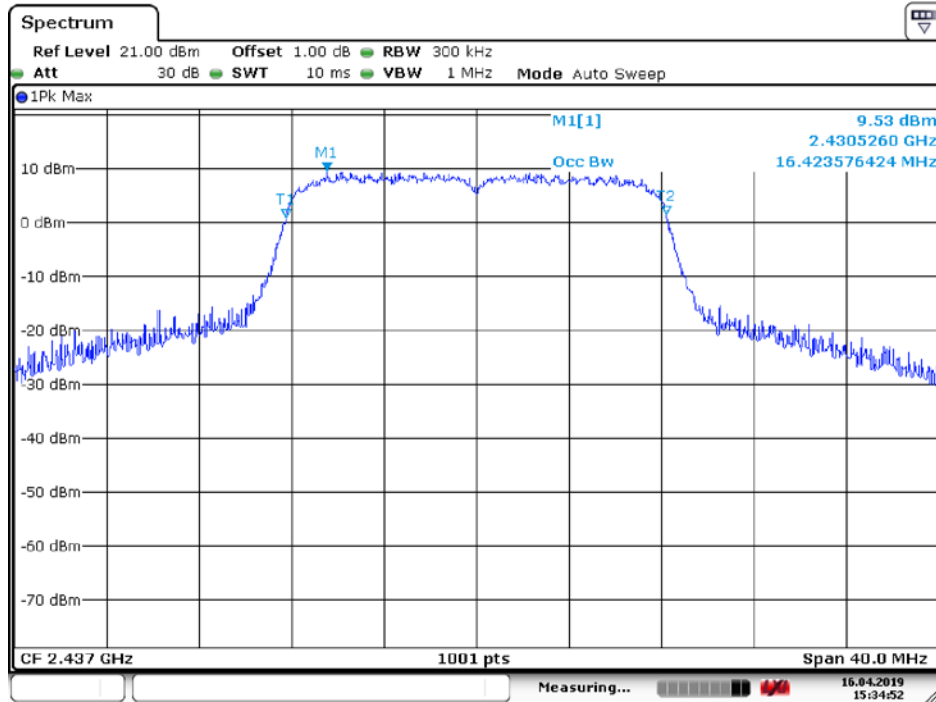
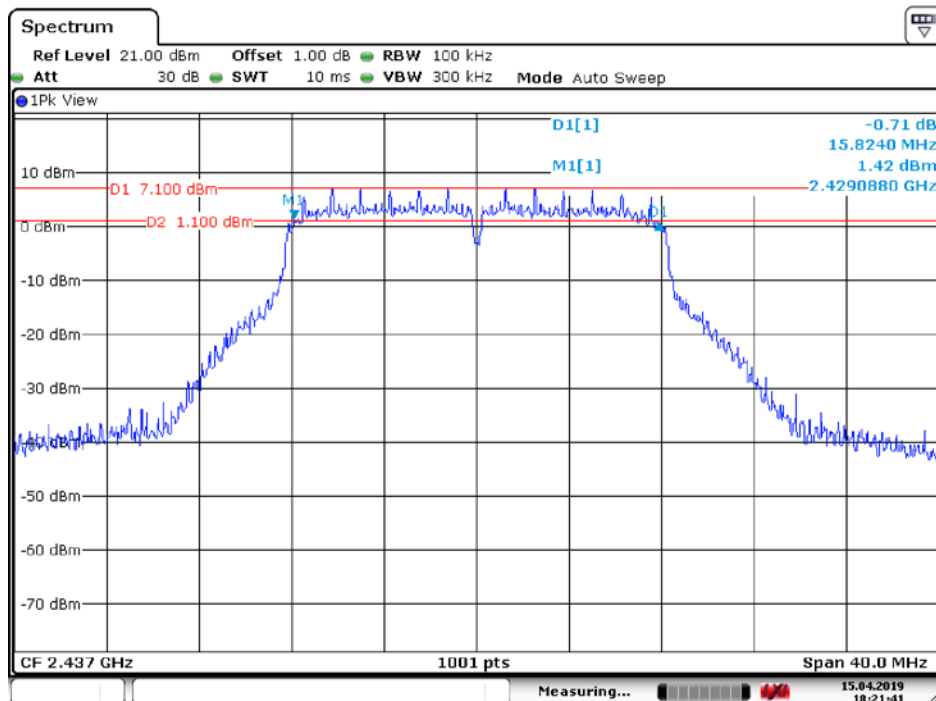


4.5.2.2.5 802.11G_ Middle Channel



Date: 16.APR.2019 15:34:53



Date: 15.APR.2019 18:21:41



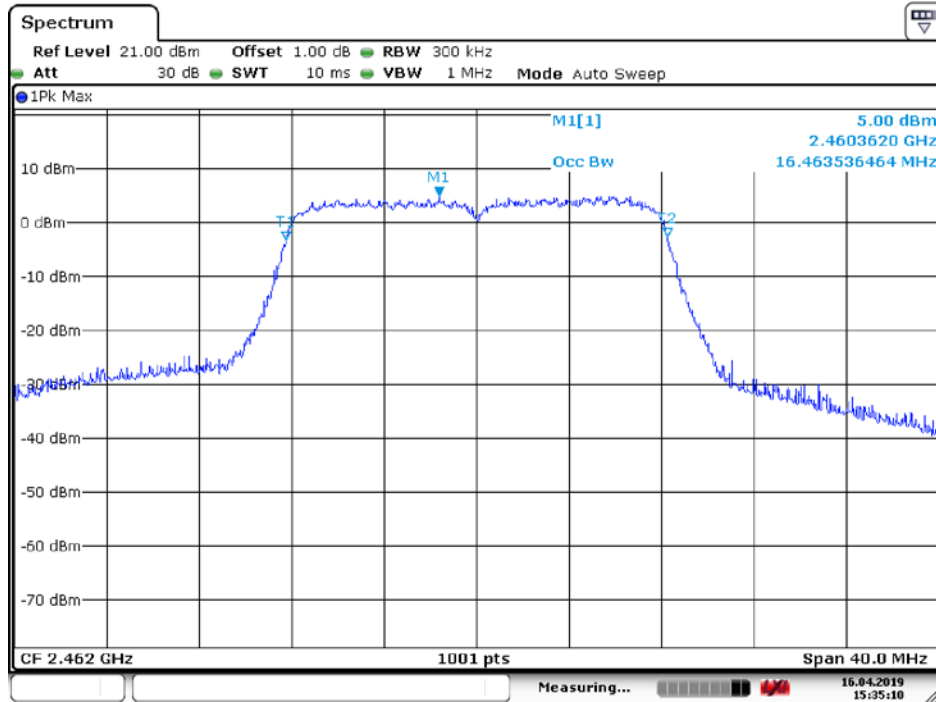
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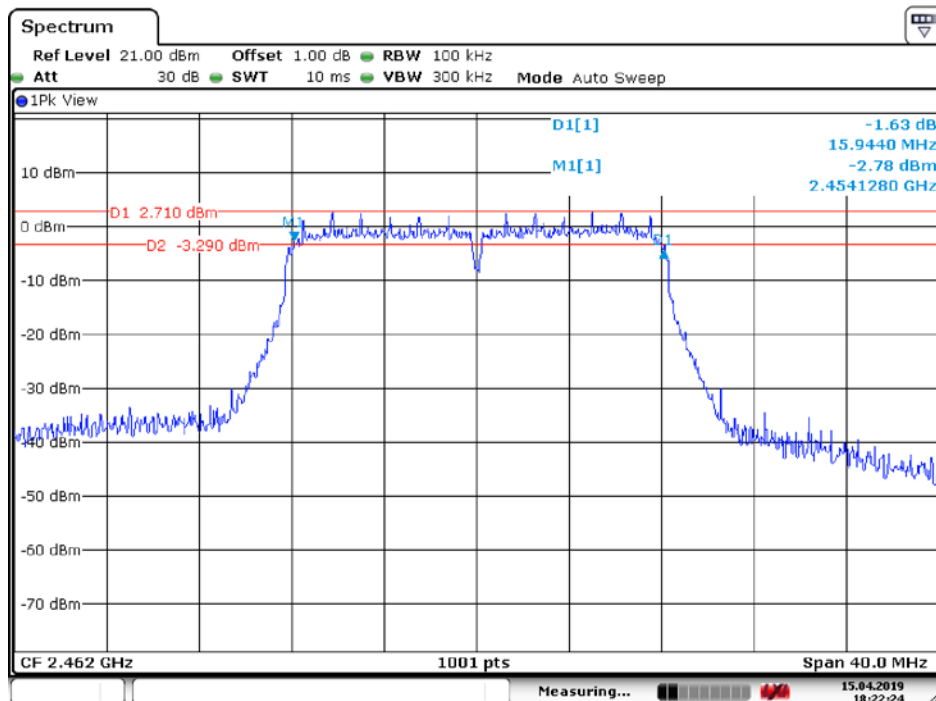
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4.5.2.2.6 802.11G_Highest Channel



Date: 16.APR.2019 15:35:10



Date: 15.APR.2019 18:22:24

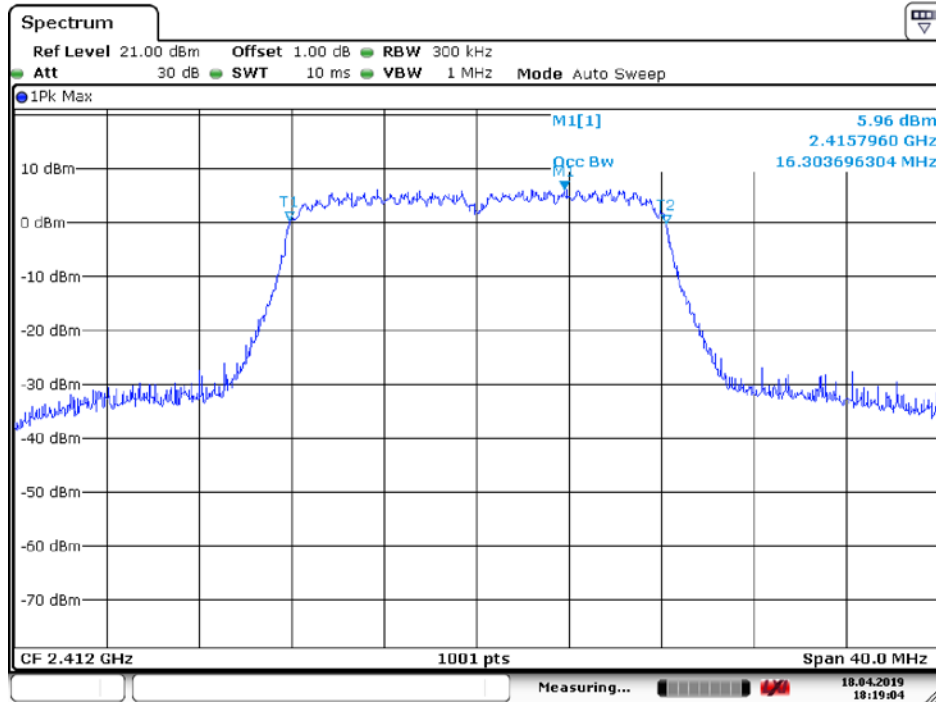


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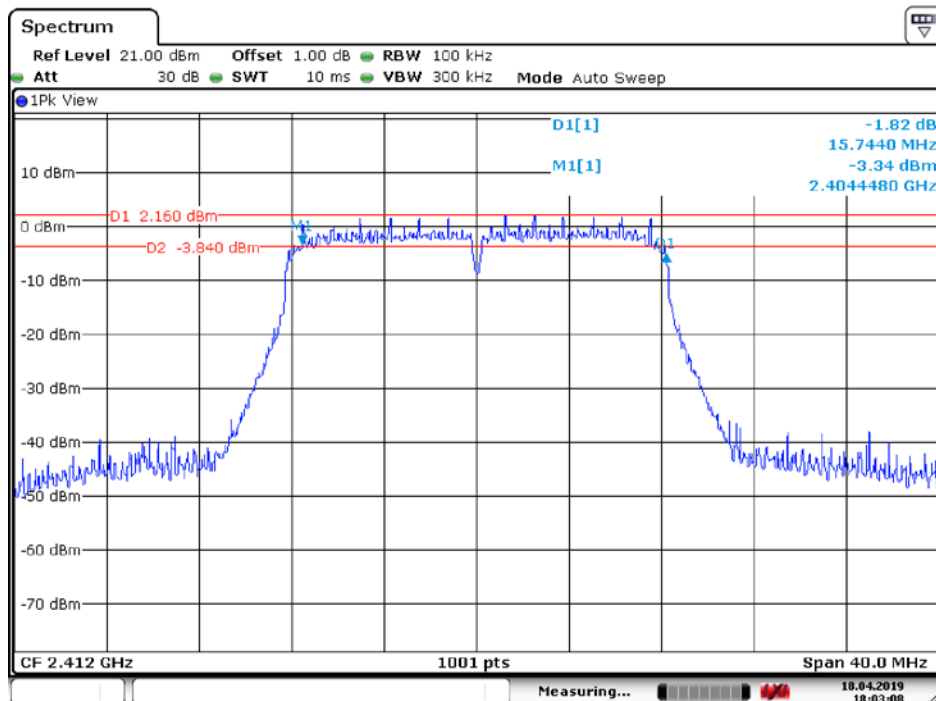
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4.5.2.2.7 802.11G_CDD_Lowest Channel



Date: 18.APR.2019 18:19:04



Date: 18.APR.2019 18:03:08

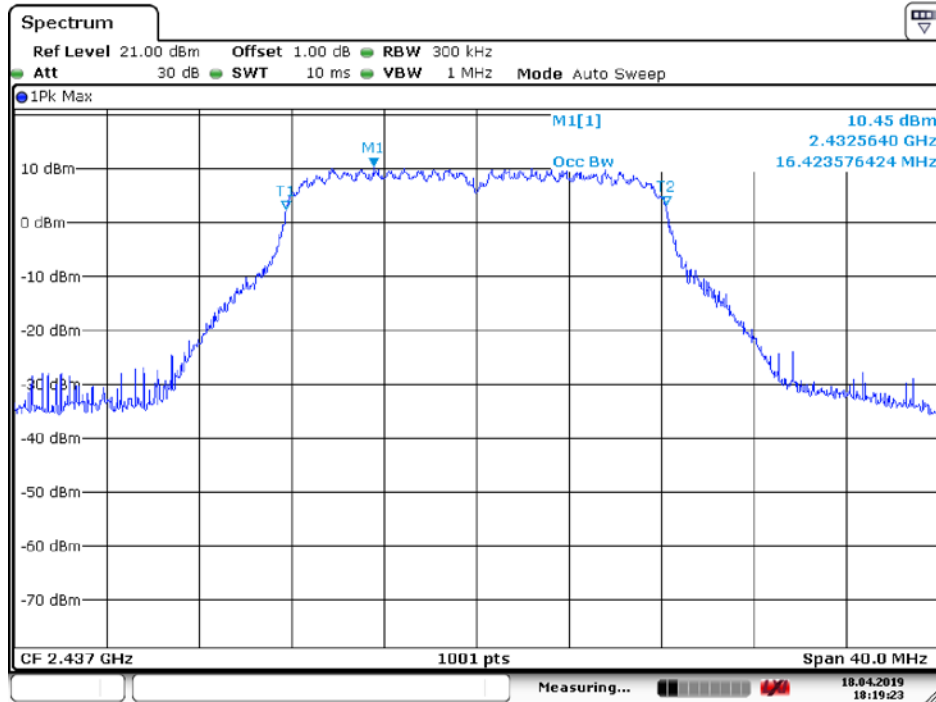


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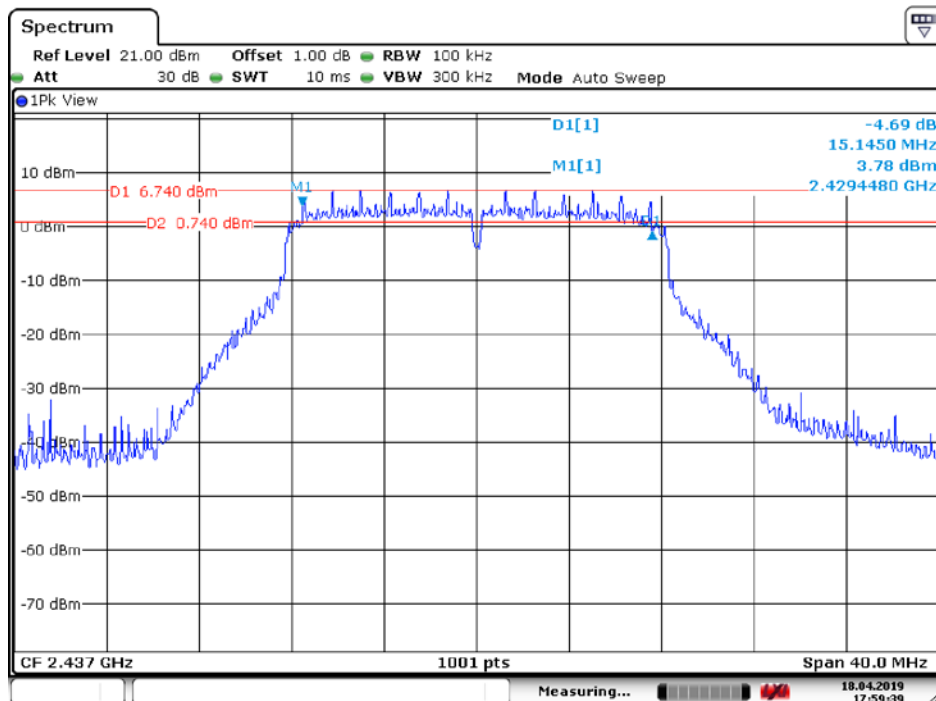
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4.5.2.2.8 802.11G_CDD_Middle Channel



Date: 18.APR.2019 18:19:24



Date: 18.APR.2019 17:59:39

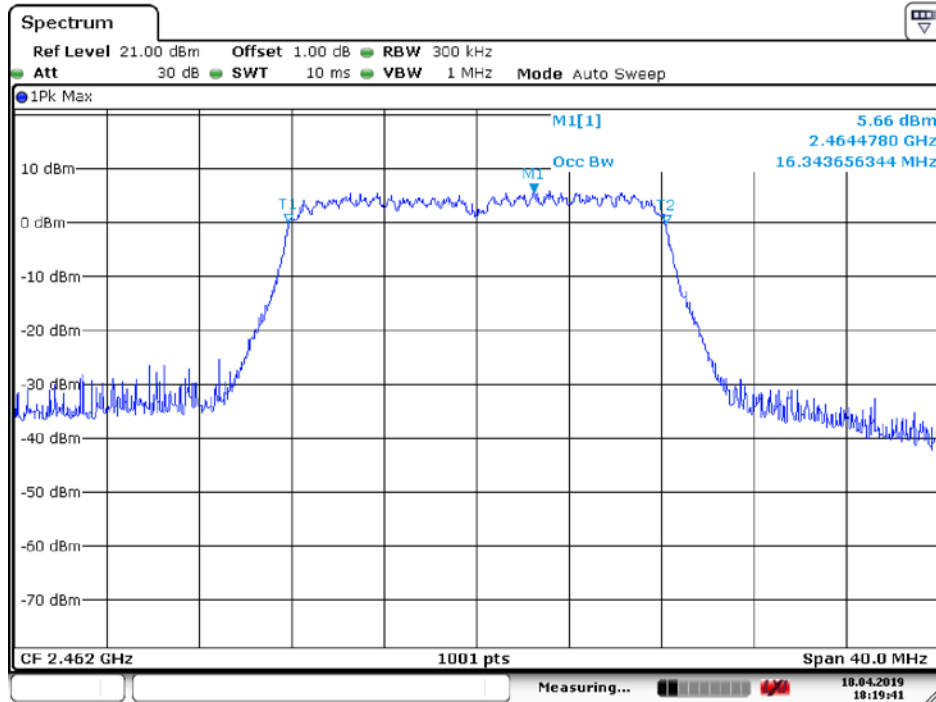


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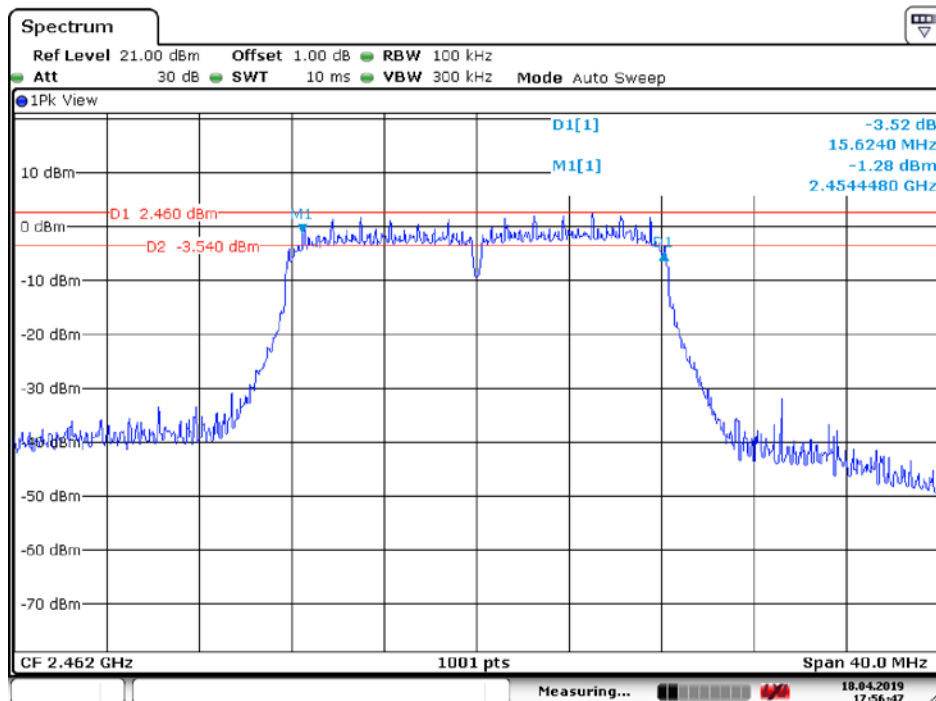
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4.5.2.2.9 802.11G_CDD_Highest Channel



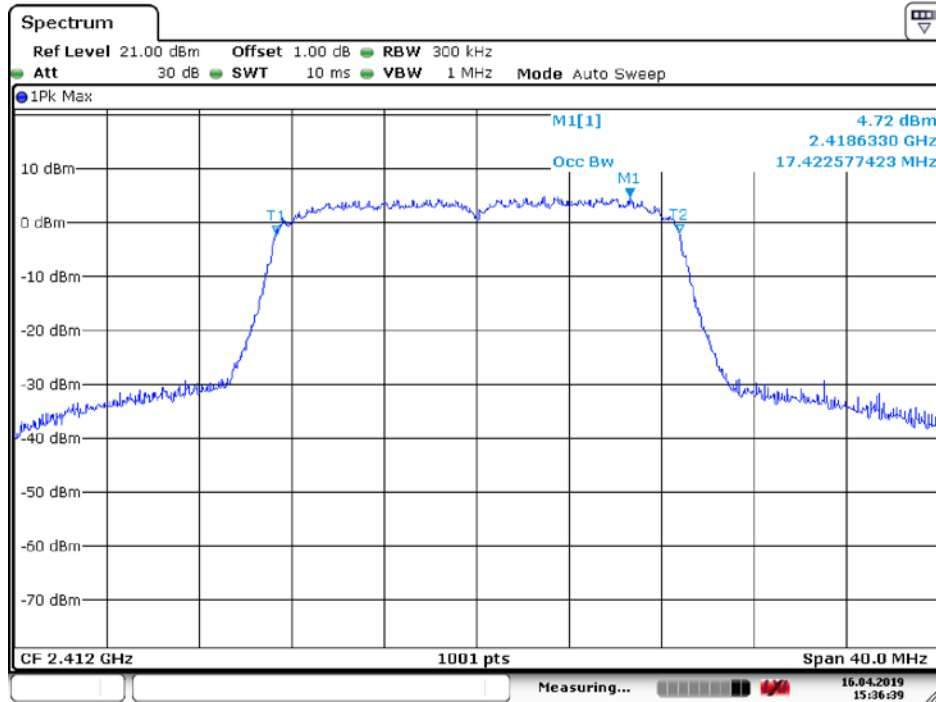
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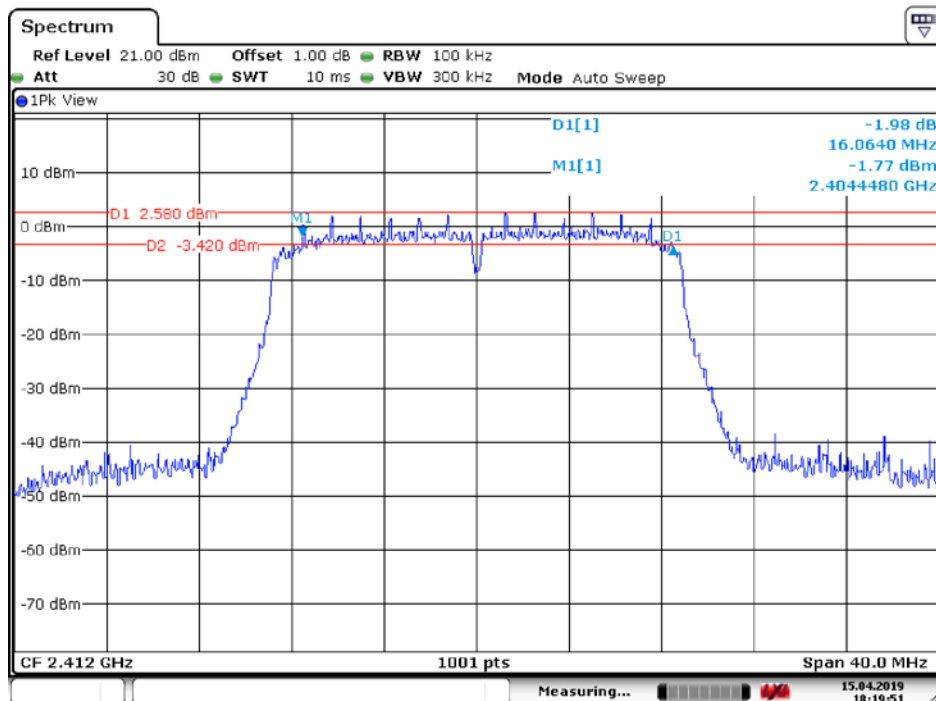
Date: 18.APR.2019 17:56:47



4.5.2.2.10 802.11N20_Lowest Channel



Date: 16.APR.2019 15:36:39



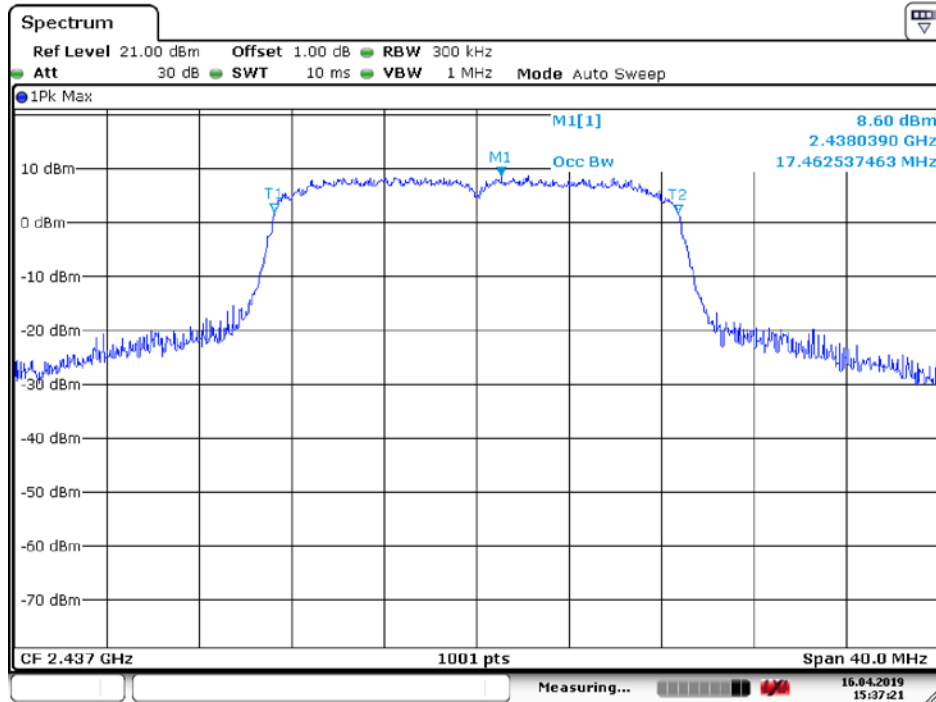
Date: 15.APR.2019 18:19:51



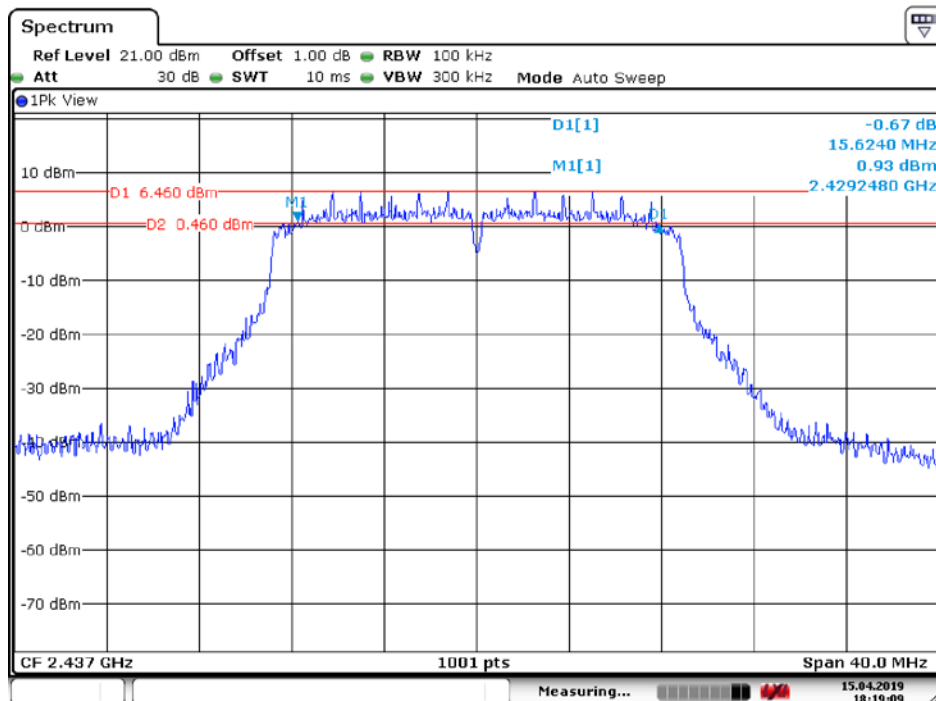
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4.5.2.2.11 802.11 N20_ Middle Channel



Date: 16.APR.2019 15:37:22



Date: 15.APR.2019 18:19:09

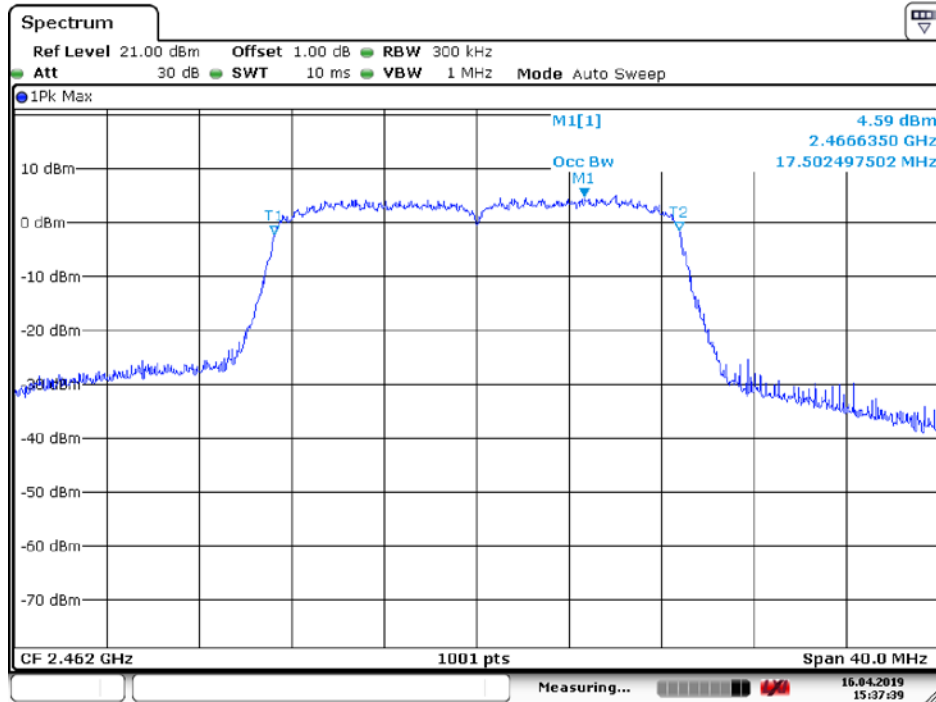


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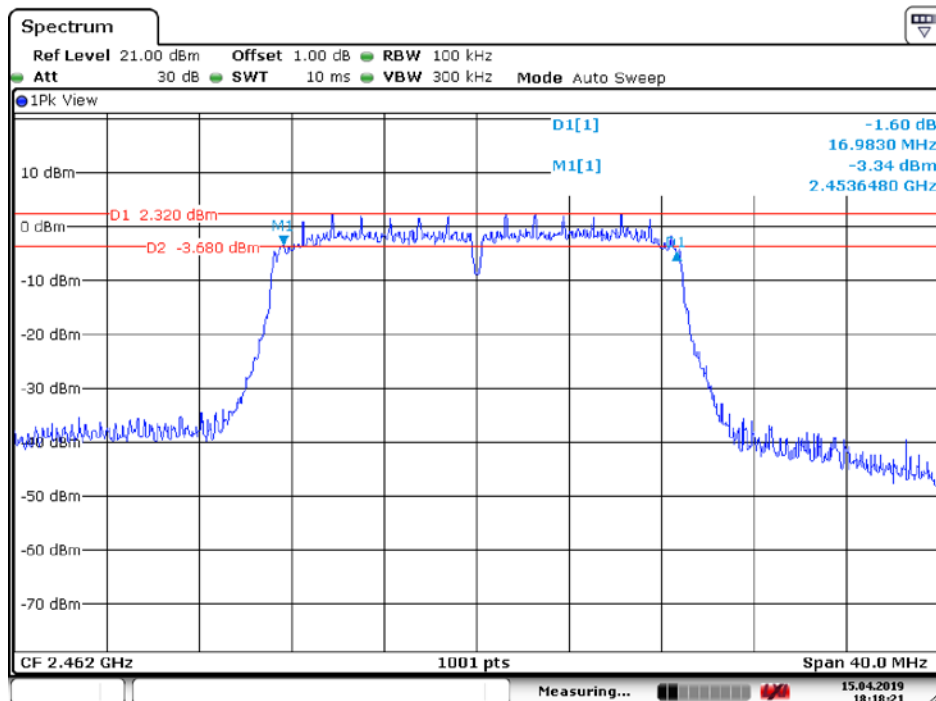
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4.5.2.2.12 802.11 N20_ Highest Channel



Date: 16.APR.2019 15:37:39

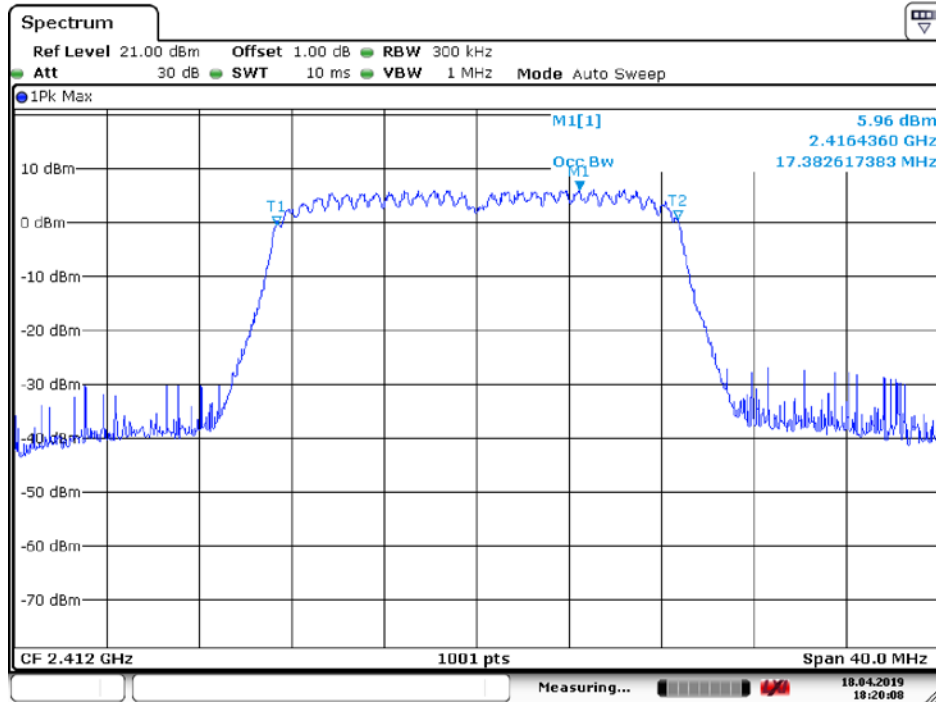


Date: 15.APR.2019 18:18:21

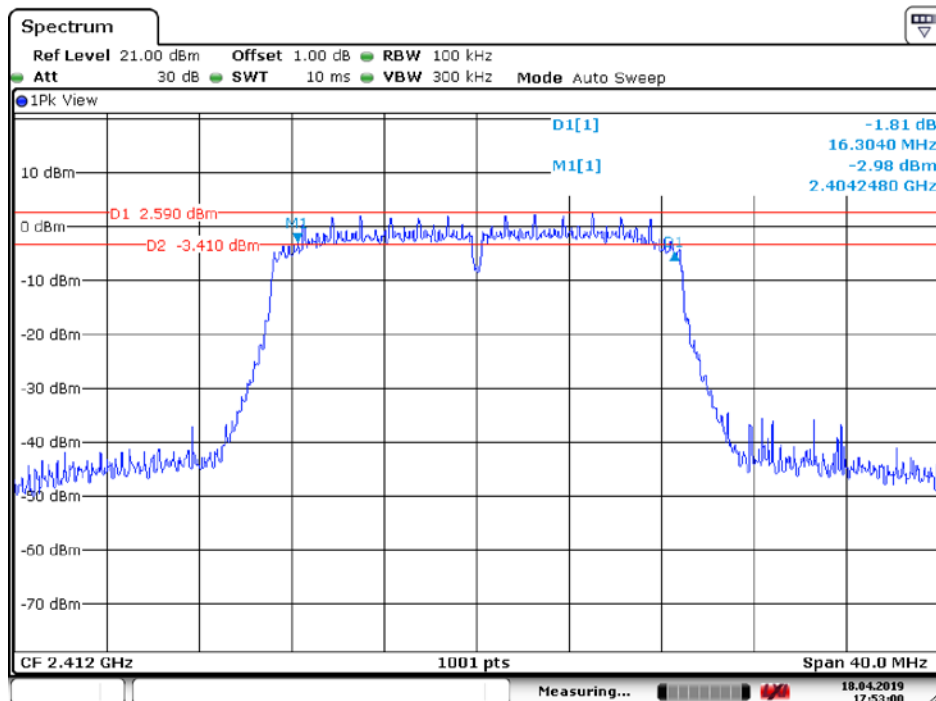


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4.5.2.2.13 802.11N20_MIMO_Lowest Channel



Date: 18.APR.2019 18:20:09



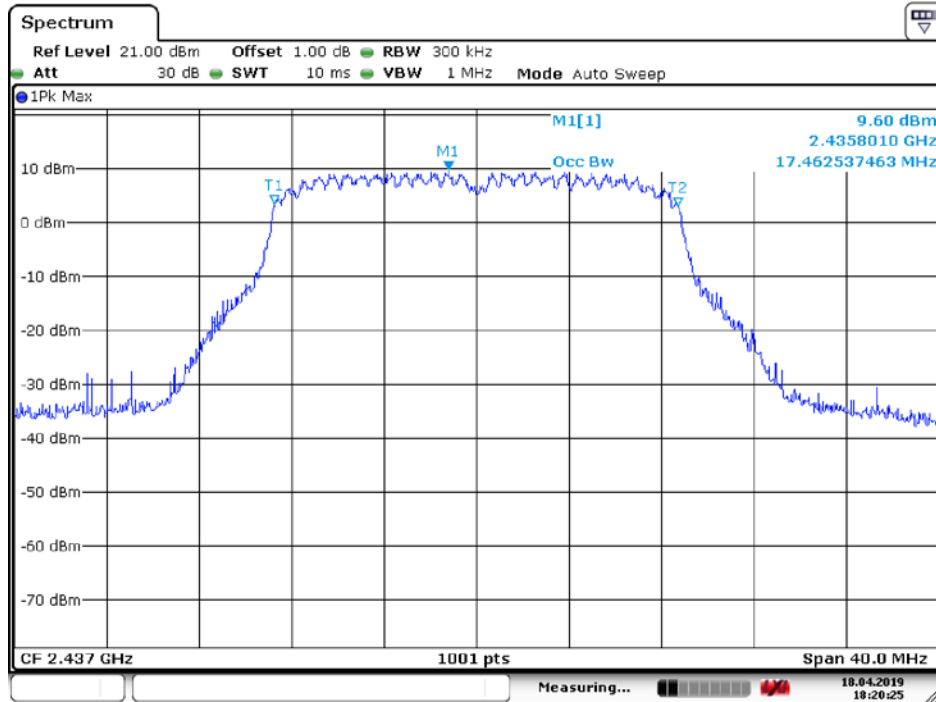
Date: 18.APR.2019 17:53:00



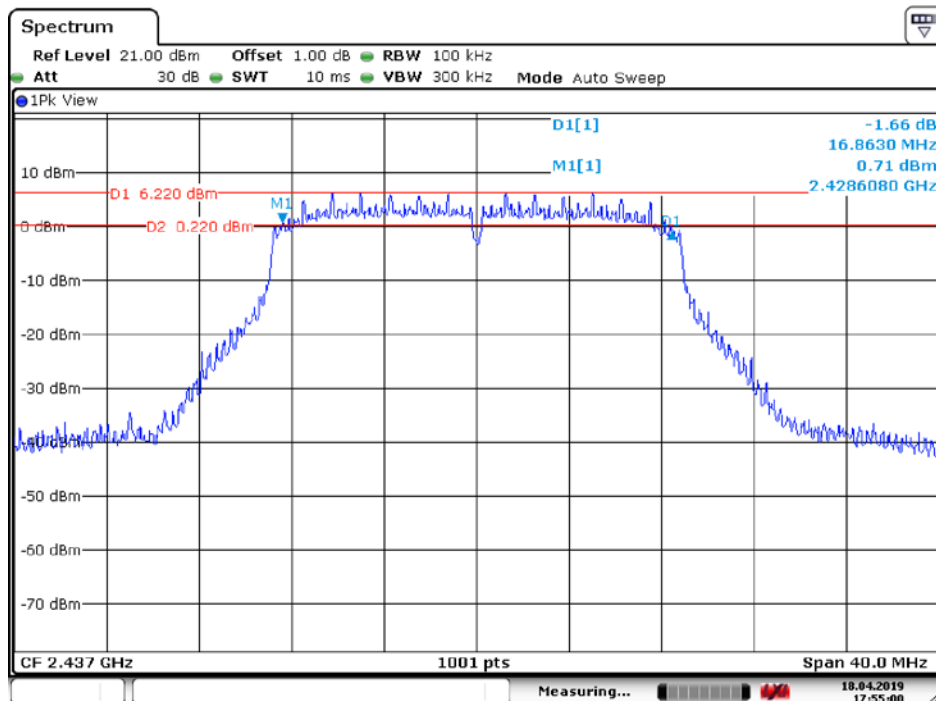
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4.5.2.2.14 802.11 N20_ MIMO_ Middle Channel



Date: 18.APR.2019 18:20:25



Date: 18.APR.2019 17:55:00

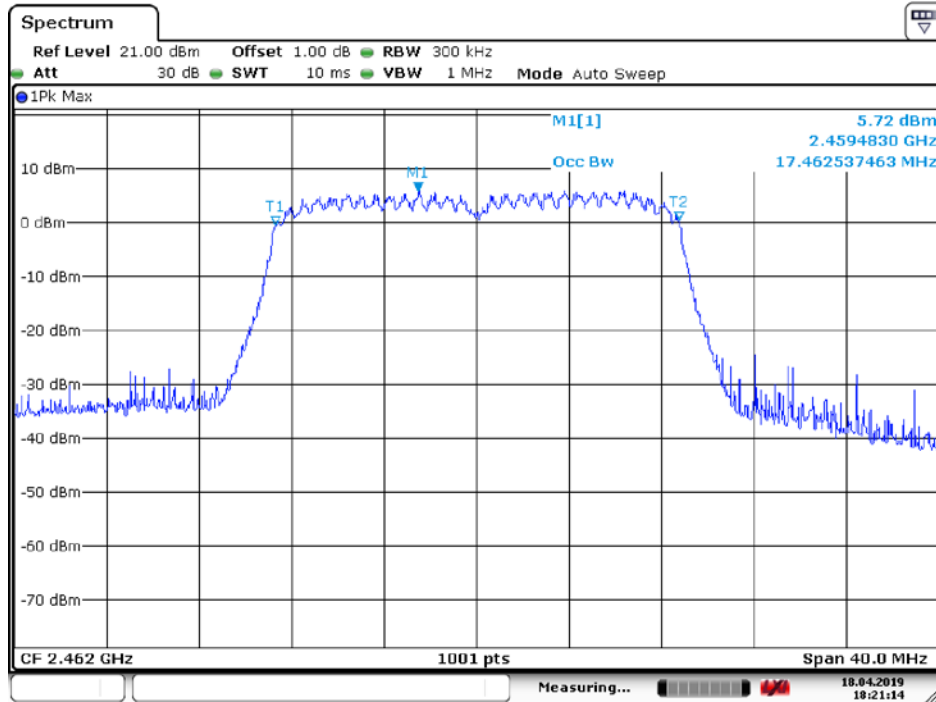


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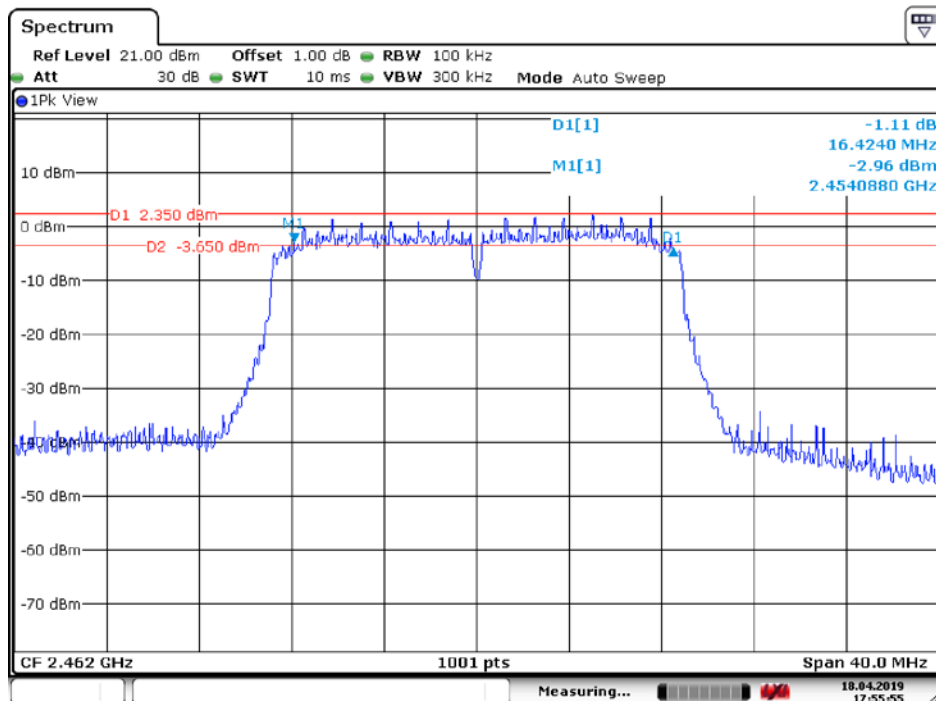
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4.5.2.2.15 802.11 N20_ MIMO_Highest Channel



Date: 18.APR.2019 18:21:14

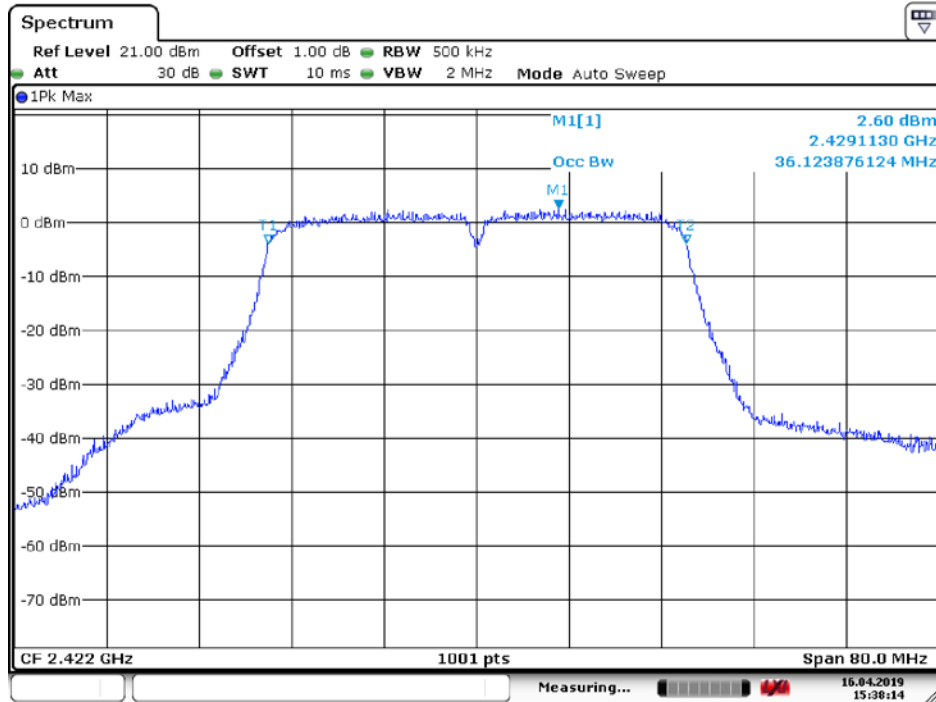


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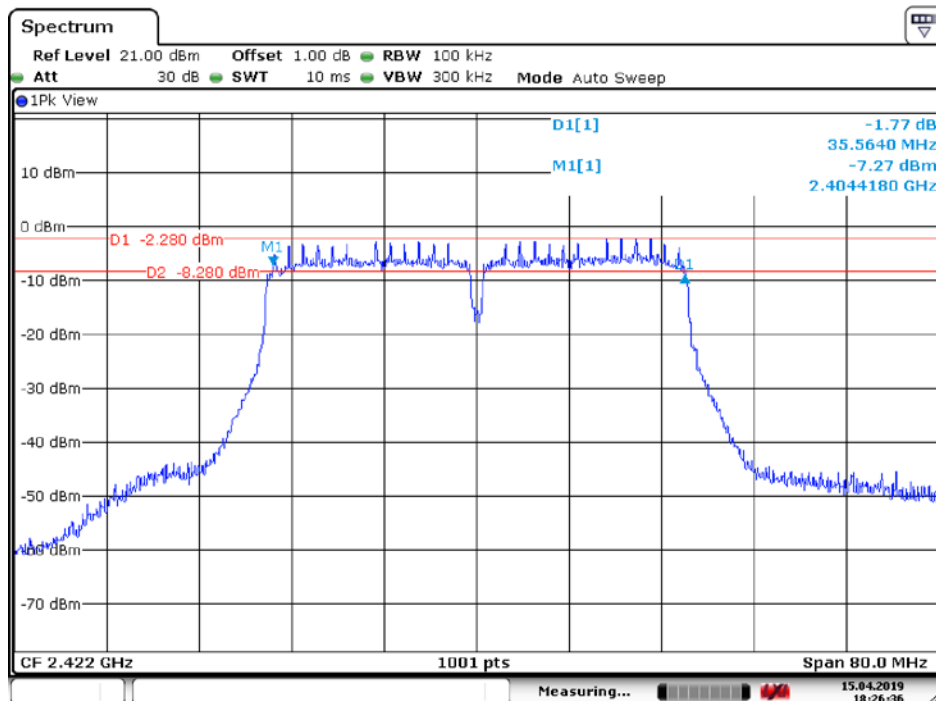


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4.5.2.2.16 802.11N40_Lowest Channel



Date: 16.APR.2019 15:38:15



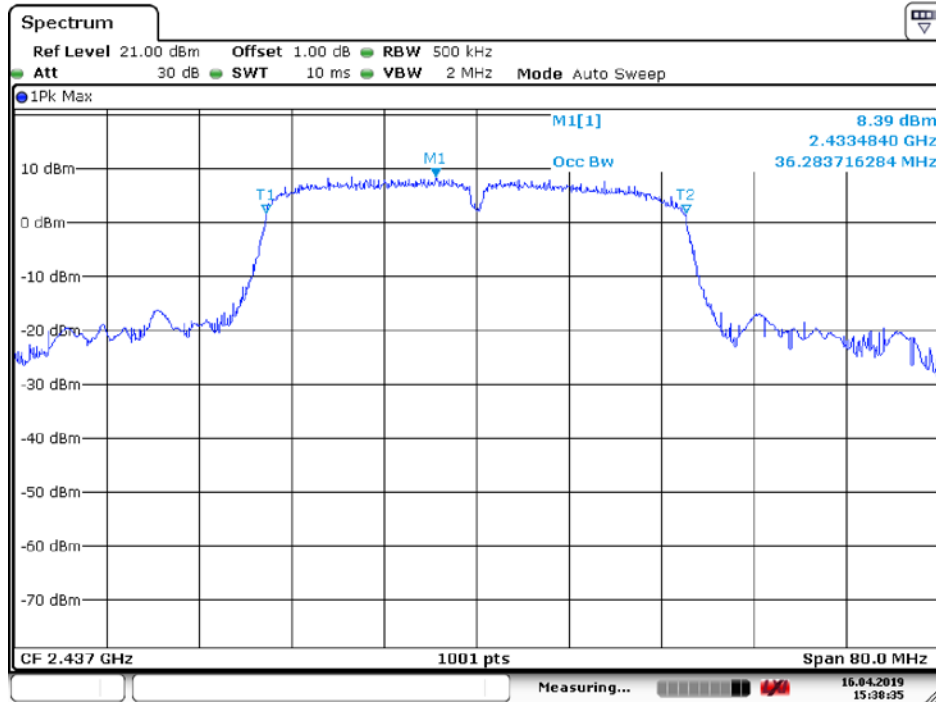
Date: 15.APR.2019 18:26:36



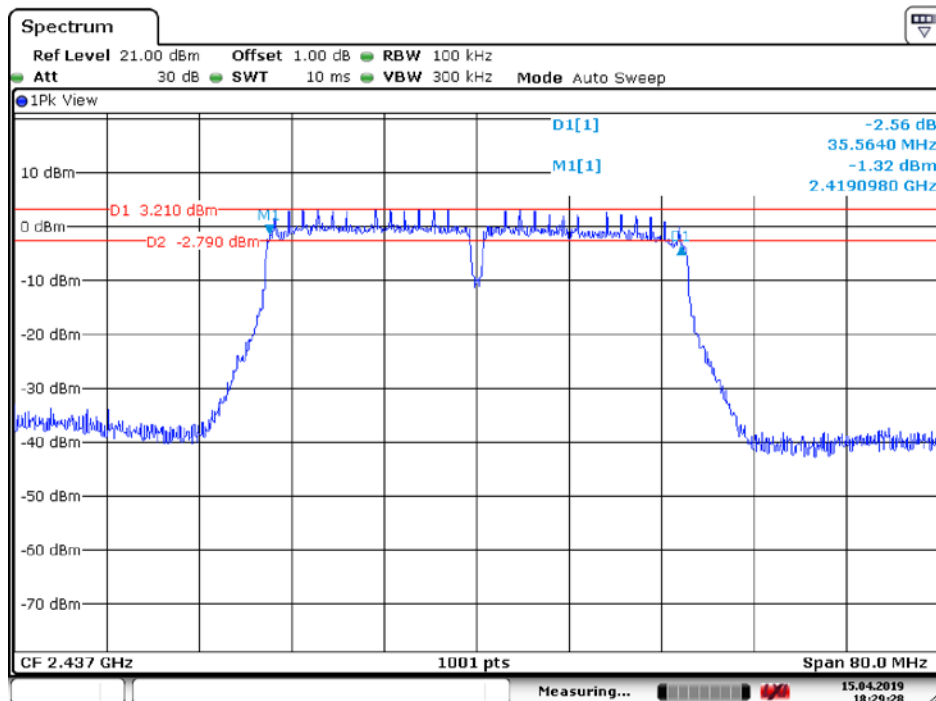
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4.5.2.2.17 802.11 N40_ Middle Channel



Date: 16.APR.2019 15:38:35



Date: 15.APR.2019 18:29:29

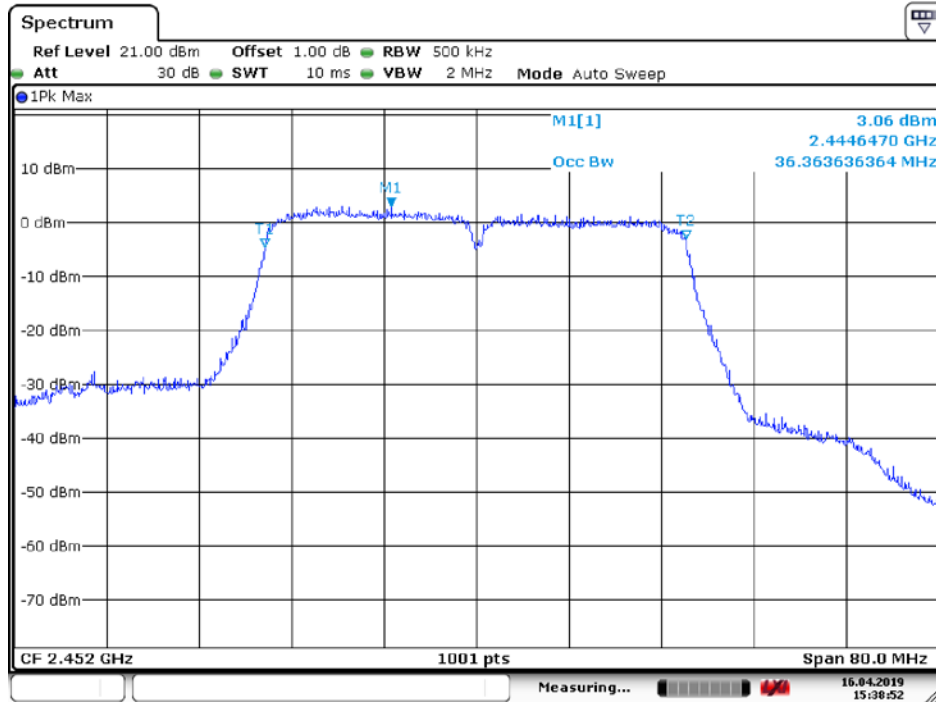


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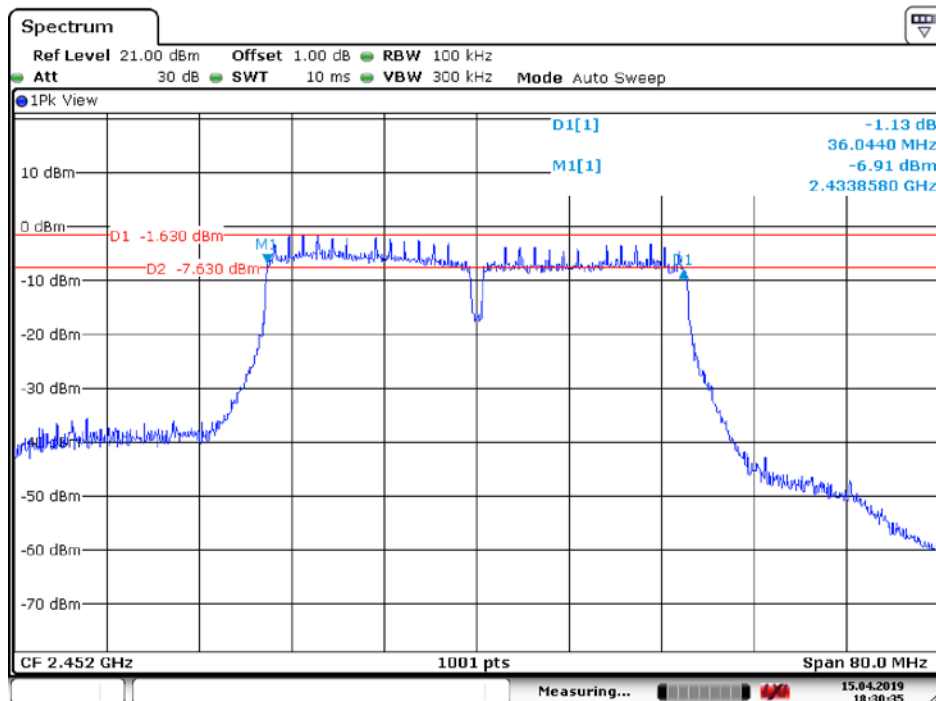
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4.5.2.2.18 802.11 N40_ Highest Channel



Date: 16.APR.2019 15:38:52



Date: 15.APR.2019 18:30:36

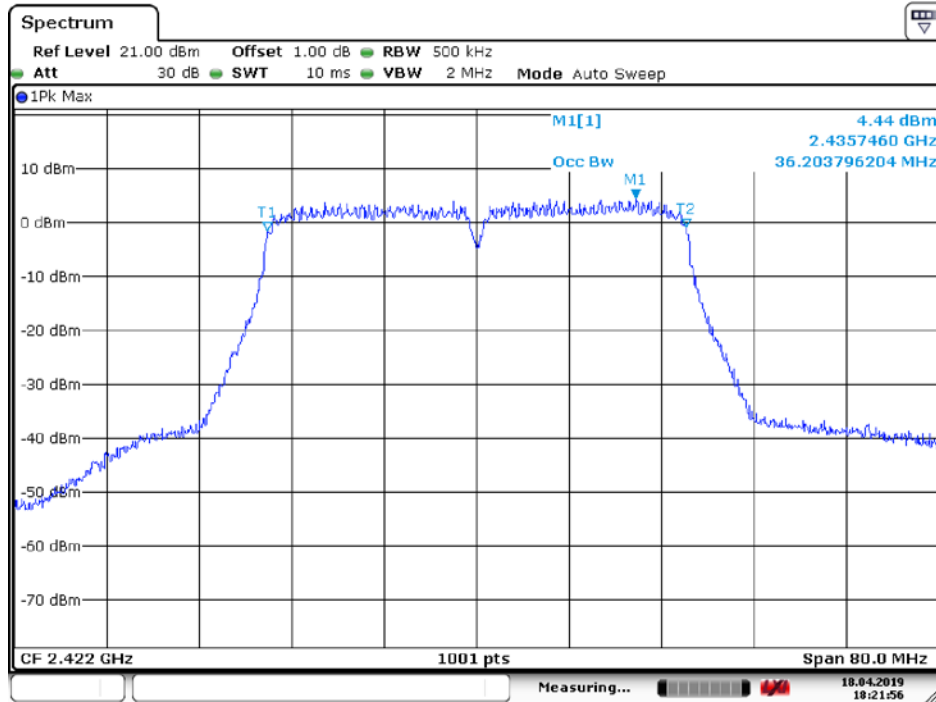


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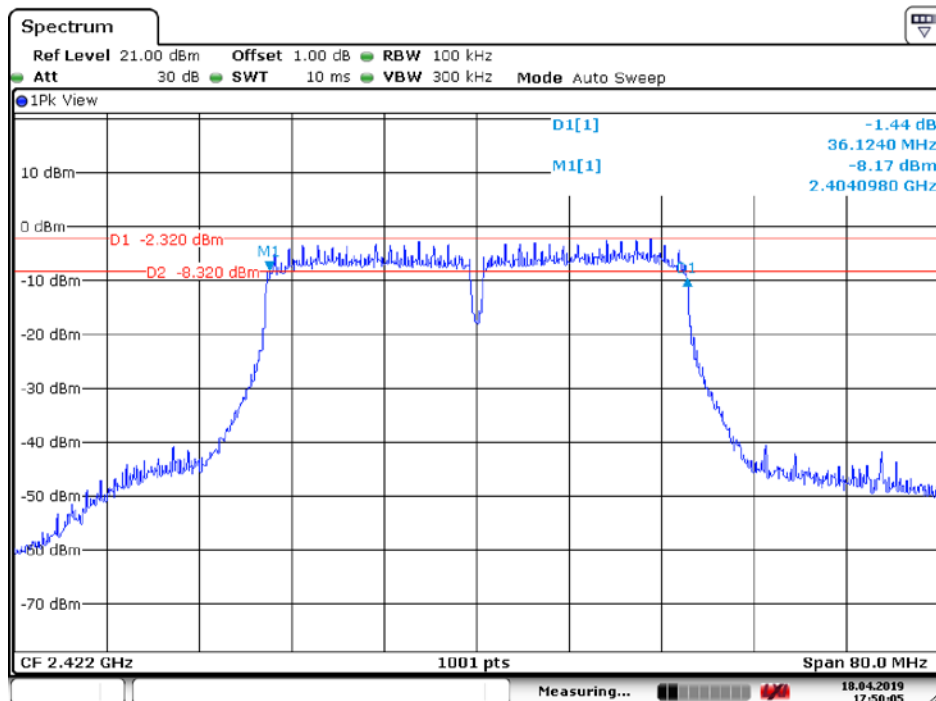
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4.5.2.2.19 802.11N40_ MIMO_Lowest Channel



Date: 18.APR.2019 18:21:56



Date: 18.APR.2019 17:50:05

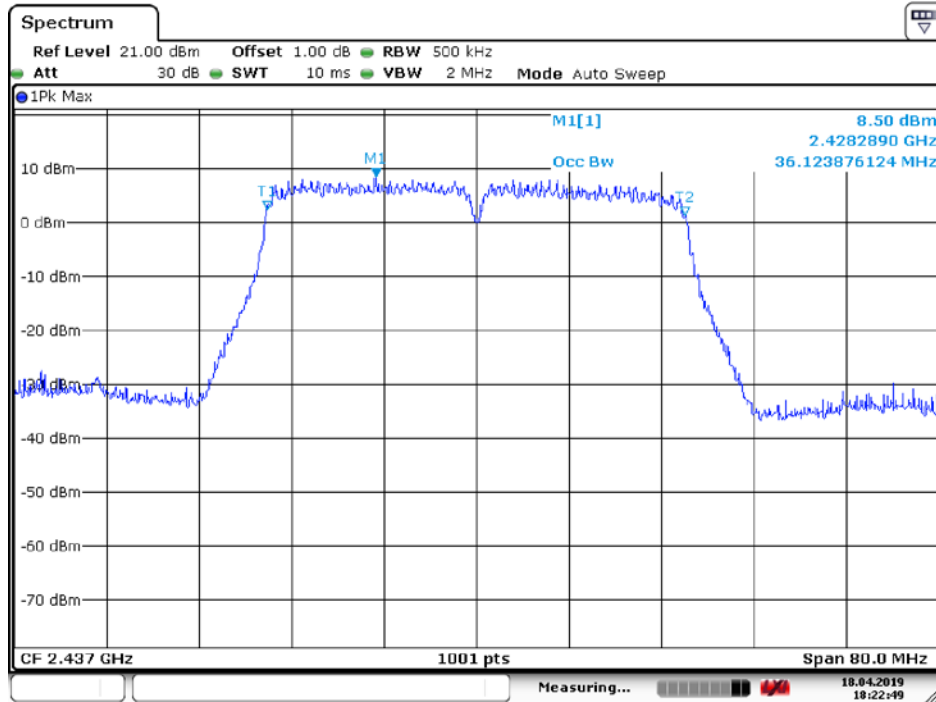


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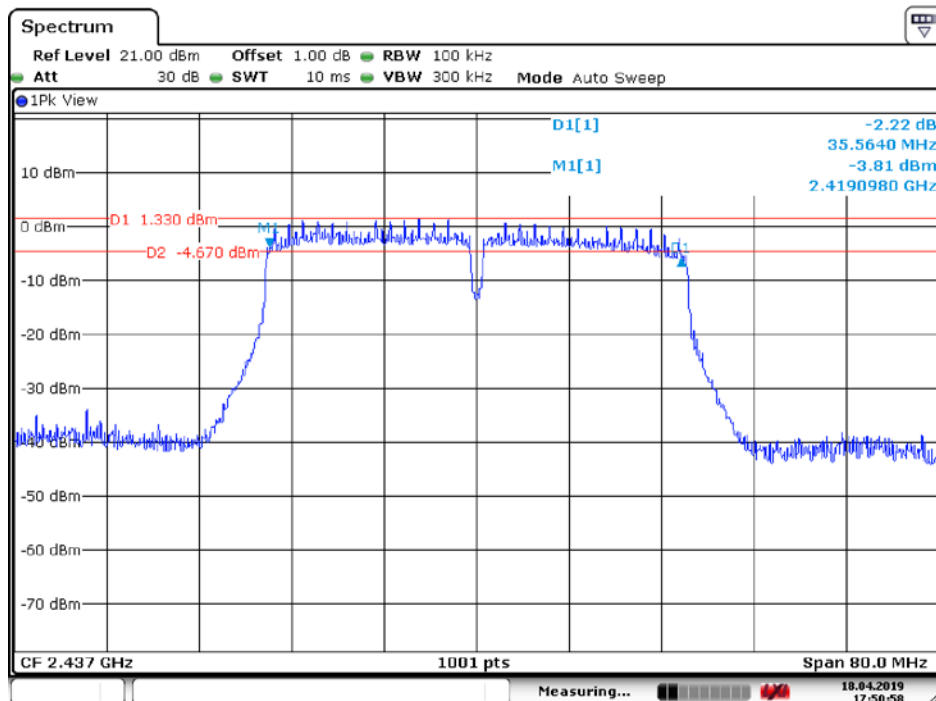
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4.5.2.2.20 802.11 N40_ MIMO_ Middle Channel



Date: 18.APR.2019 18:22:50

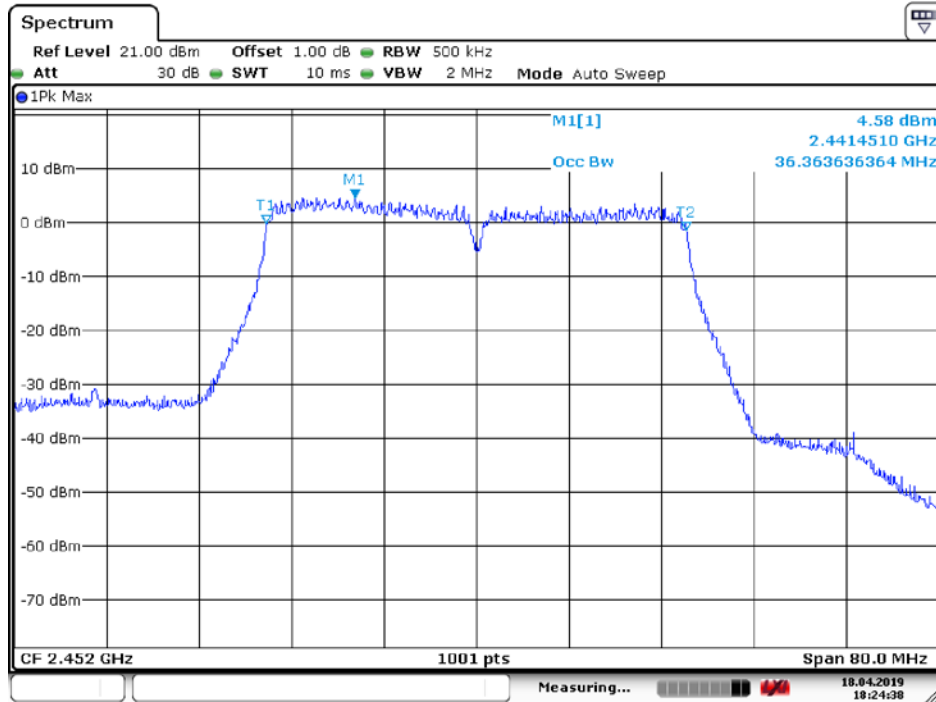


Date: 18.APR.2019 17:50:58

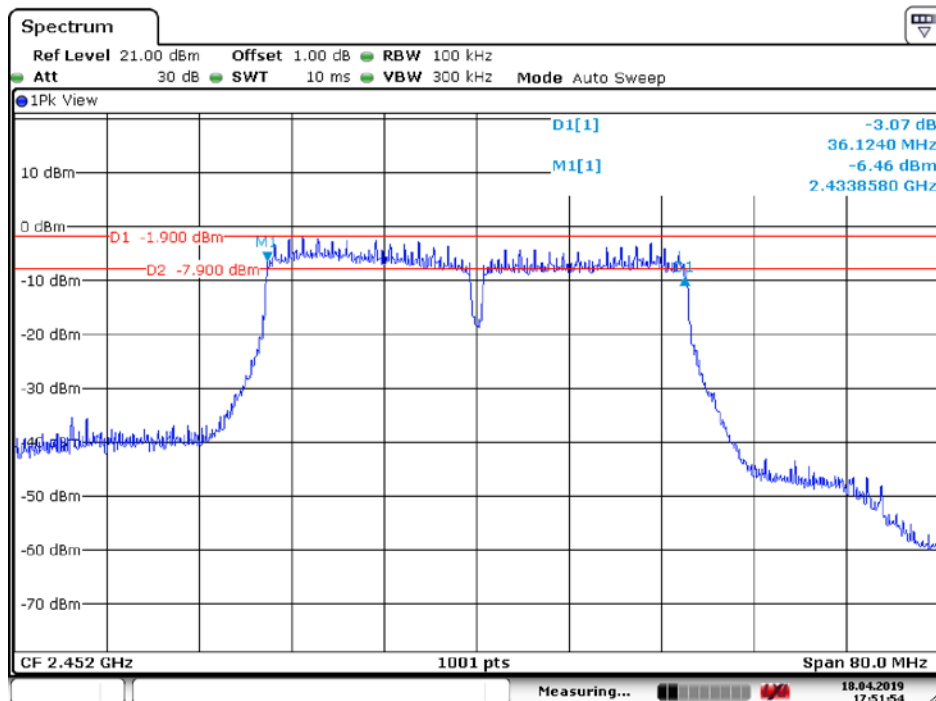


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4.5.2.2.21 802.11 N40_MIMO_Highest Channel



Date: 18.APR.2019 18:24:38



Date: 18.APR.2019 17:51:54

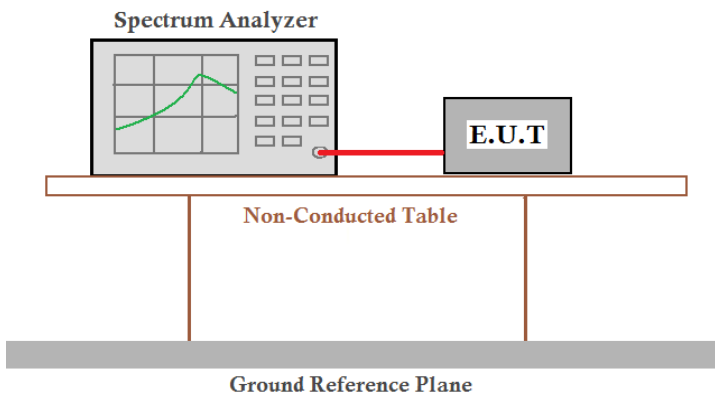


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4.6 Power Spectral Density

Test Requirement:	47 CFR Part 15C Section 15.247 (e)
Test Method:	ANSI C63.10 :2013 Section 11.10.2
Test Setup:	
Test Instruments:	Refer to section 5.10 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 11Mbps of rate is the worst case of 802.11B; 6Mbps of rate is the worst case of 802.11G ; 6.5Mbps of rate is the worst case of 802.11N(HT20); 13.5Mbps of rate is the worst case of 802.11N(HT40).
Limit:	≤8.00dBm/3kHz
Test Results:	Pass



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4.6.1 Test Results

4.6.1.1 ANT1:

Mode	Test Channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
802.11B	Lowest	-5.59	≤8.00	Pass
	Middle	-6.12	≤8.00	Pass
	Highest	-5.55	≤8.00	Pass
802.11G	Lowest	-10.81	≤8.00	Pass
	Middle	-6.62	≤8.00	Pass
	Highest	-10.57	≤8.00	Pass
802.11G_CDD	Lowest	-10.77	≤8.00	Pass
	Middle	-6.27	≤8.00	Pass
	Highest	-10.32	≤8.00	Pass
802.11N20	Lowest	-9.83	≤8.00	Pass
	Middle	-6.85	≤8.00	Pass
	Highest	-11.83	≤8.00	Pass
802.11N20_MIMO	Lowest	-11.15	≤8.00	Pass
	Middle	-5.27	≤8.00	Pass
	Highest	-9.32	≤8.00	Pass
802.11N40	Lowest	-16.14	≤8.00	Pass
	Middle	-8.45	≤8.00	Pass
	Highest	-15.34	≤8.00	Pass
802.11N40_MIMO	Lowest	-16.32	≤8.00	Pass
	Middle	-12.05	≤8.00	Pass
	Highest	-16.00	≤8.00	Pass



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4.6.1.2 ANT2:

Mode	Test Channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
802.11B	Lowest	-5.14	≤8.00	Pass
	Middle	-5.23	≤8.00	Pass
	Highest	-4.06	≤8.00	Pass
802.11G	Lowest	-10.76	≤8.00	Pass
	Middle	-6.36	≤8.00	Pass
	Highest	-10.34	≤8.00	Pass
802.11G_CDD	Lowest	-9.95	≤8.00	Pass
	Middle	-6.38	≤8.00	Pass
	Highest	-10.50	≤8.00	Pass
802.11N20	Lowest	-11.35	≤8.00	Pass
	Middle	-7.17	≤8.00	Pass
	Highest	-9.42	≤8.00	Pass
802.11N20_MIMO	Lowest	-10.51	≤8.00	Pass
	Middle	-6.69	≤8.00	Pass
	Highest	-10.00	≤8.00	Pass
802.11N40	Lowest	-14.74	≤8.00	Pass
	Middle	-10.13	≤8.00	Pass
	Highest	-15.29	≤8.00	Pass
802.11N40_MIMO	Lowest	-15.20	≤8.00	Pass
	Middle	-12.12	≤8.00	Pass
	Highest	-15.53	≤8.00	Pass



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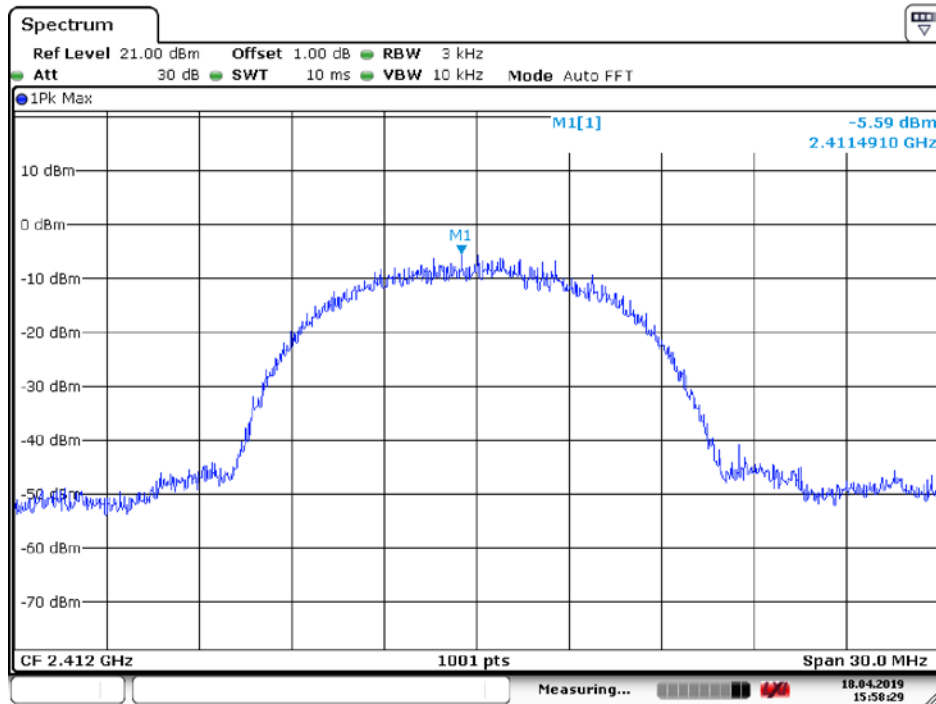
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4.6.2 Test plots

4.6.2.1 ANT1

4.6.2.1.1 802.11B_Lowest Channel



Date: 18.APR.2019 15:58:29



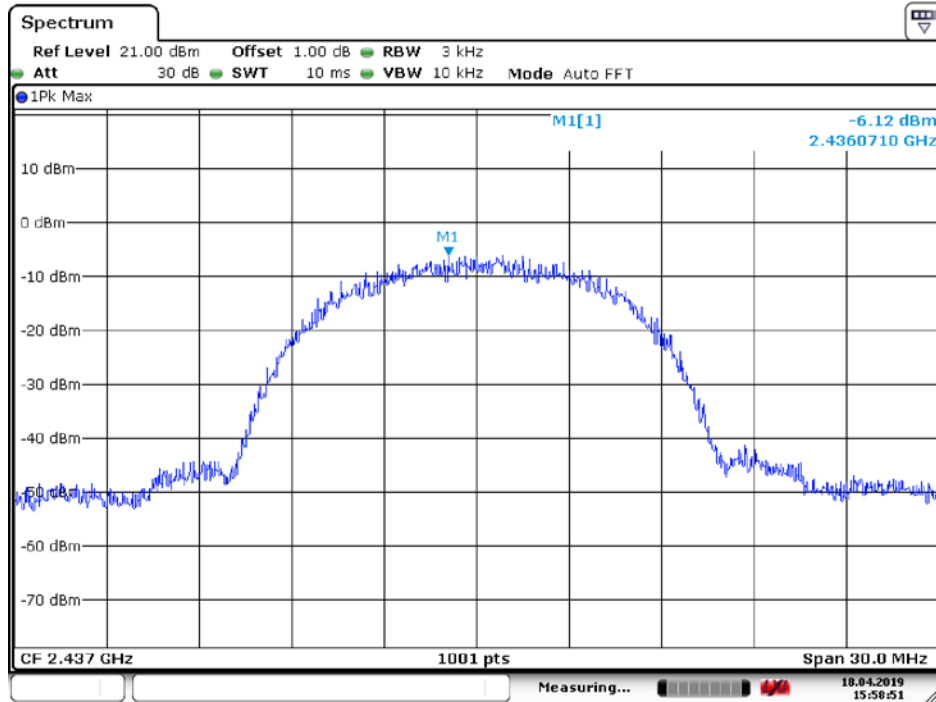
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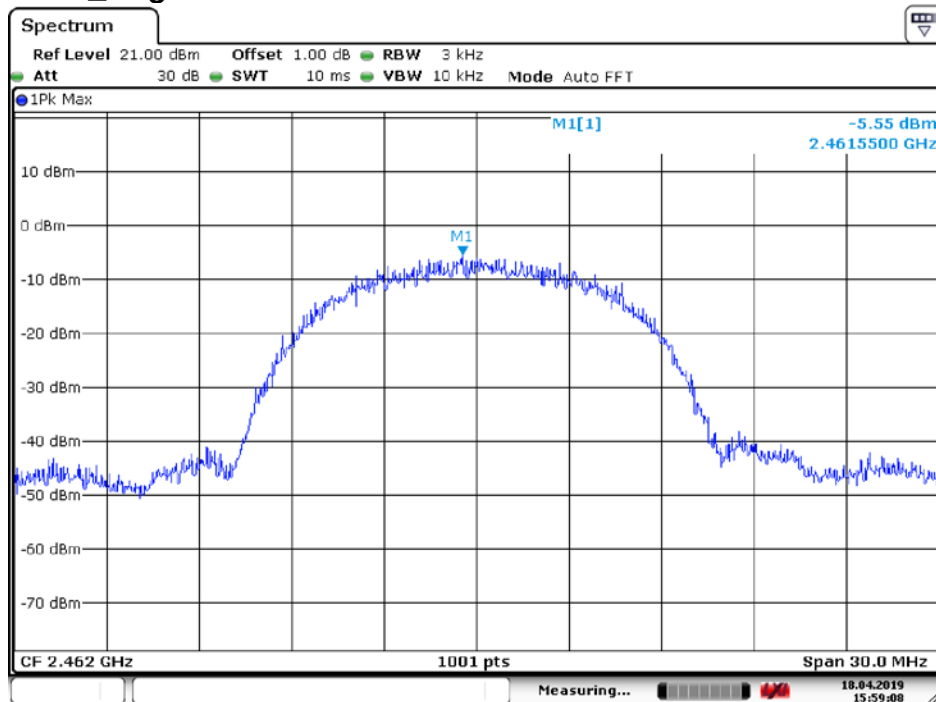
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4.6.2.1.2 802.11B_ Middle Channel



Date: 18.APR.2019 15:58:52

4.6.2.1.3 802.11B_ Highest Channel



Date: 18.APR.2019 15:59:09

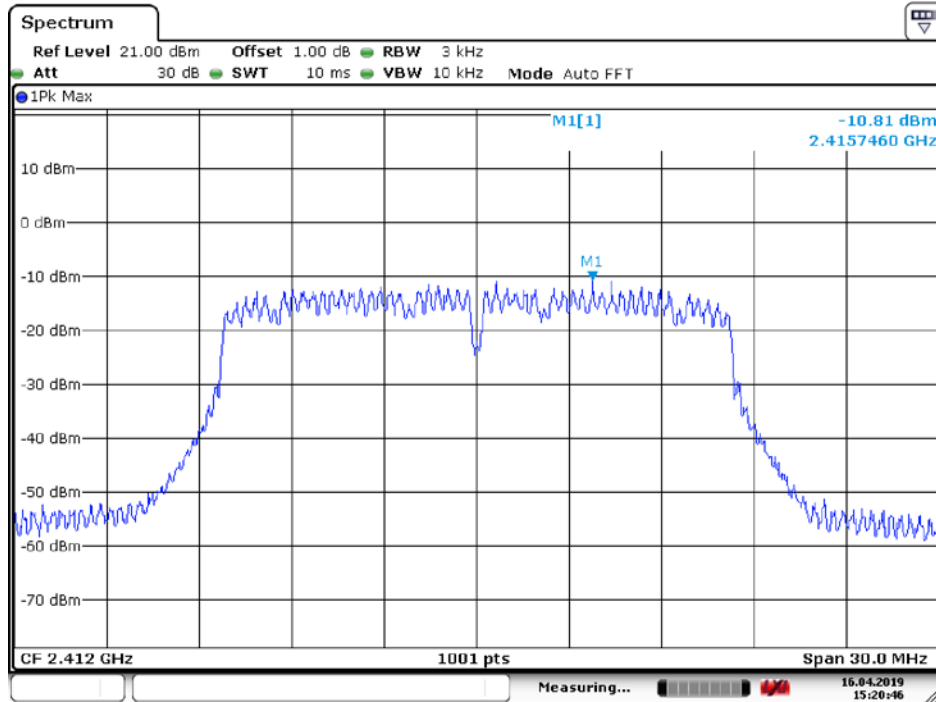


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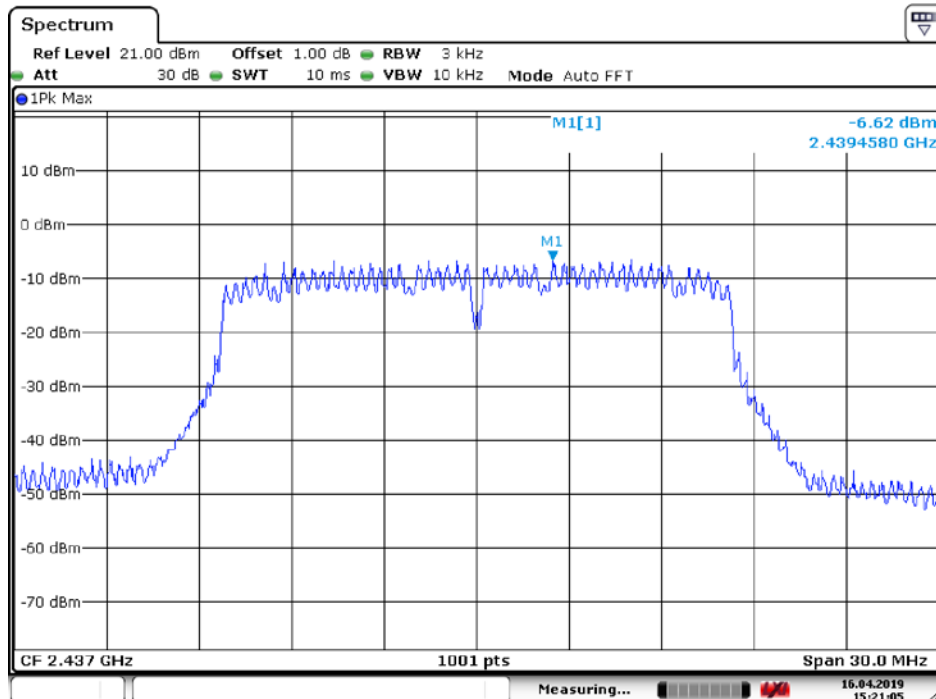
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4.6.2.1.4 802.11G_Lowest Channel



Date: 16.APR.2019 15:20:46

4.6.2.1.5 802.11G_Middle Channel



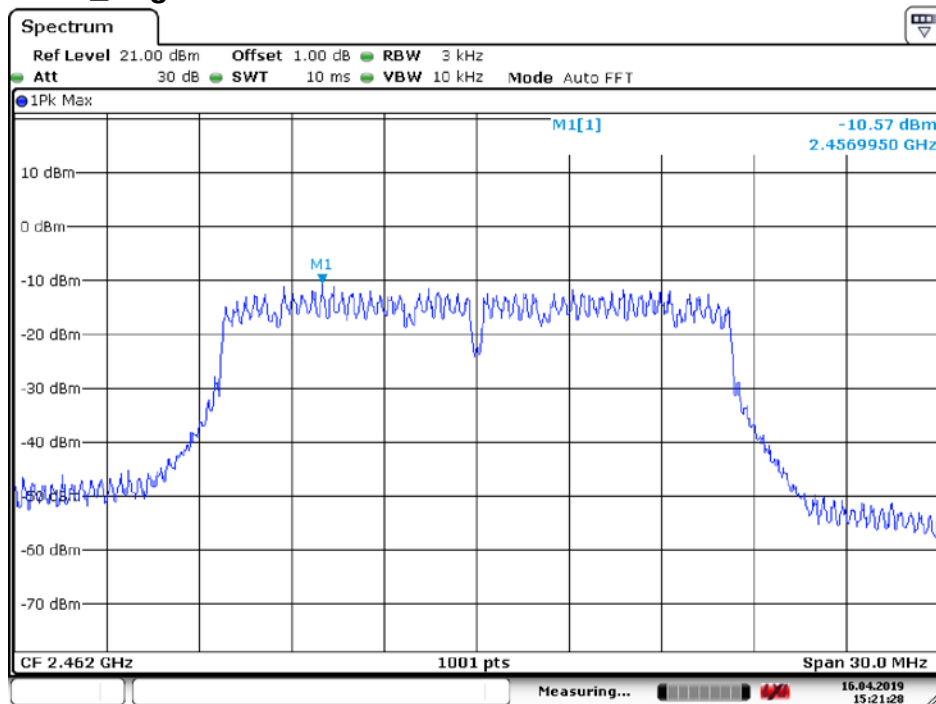
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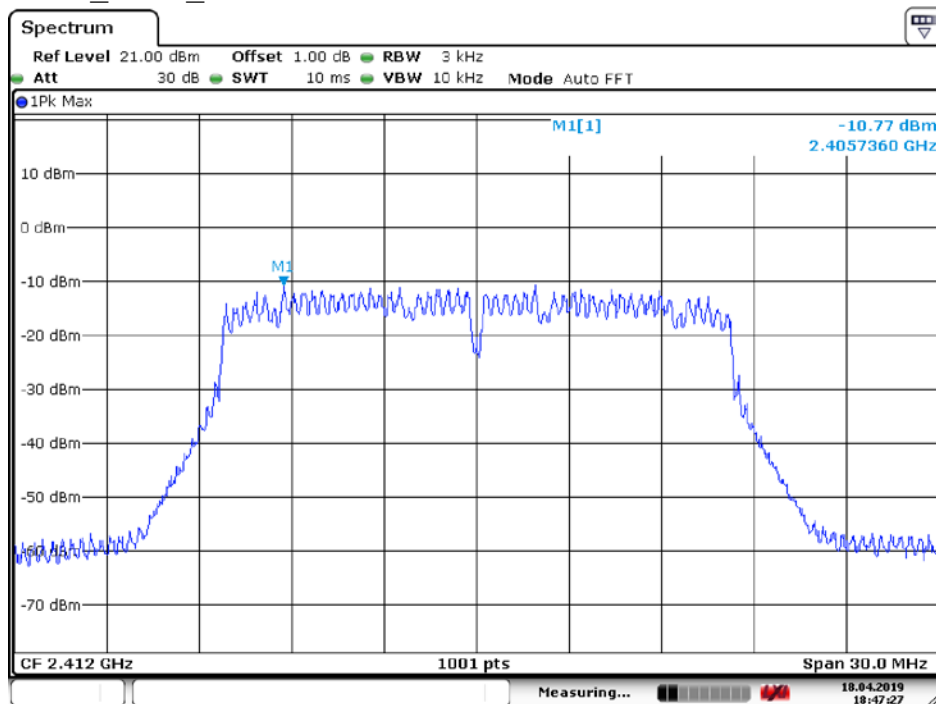
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4.6.2.1.6 802.11G_Highest Channel



Date: 16.APR.2019 15:21:29

4.6.2.1.7 802.11G_CDD_Lowest Channel



Date: 18.APR.2019 18:47:27

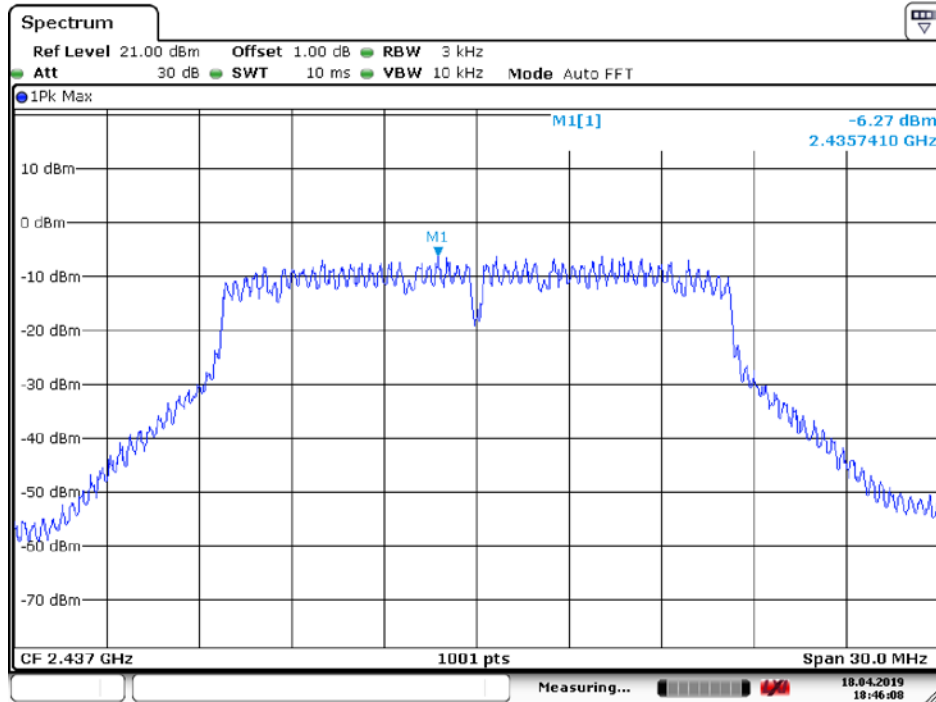


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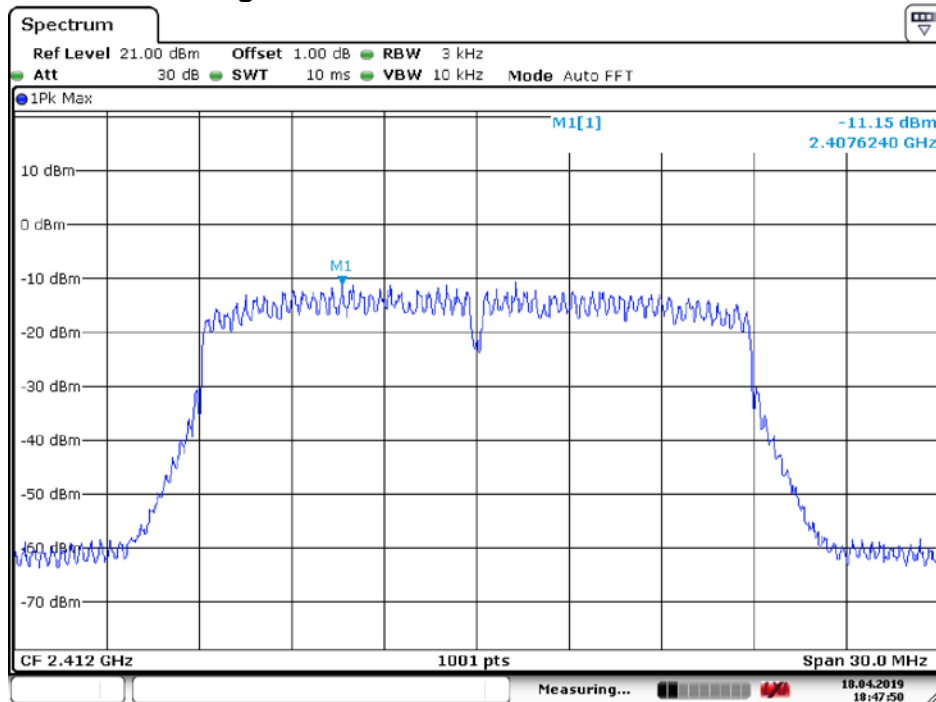
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4.6.2.1.8 802.11G_CDD_Middle Channel



Date: 18.APR.2019 18:46:08

4.6.2.1.9 802.11G_CDD_Highest Channel



Date: 18.APR.2019 18:47:51

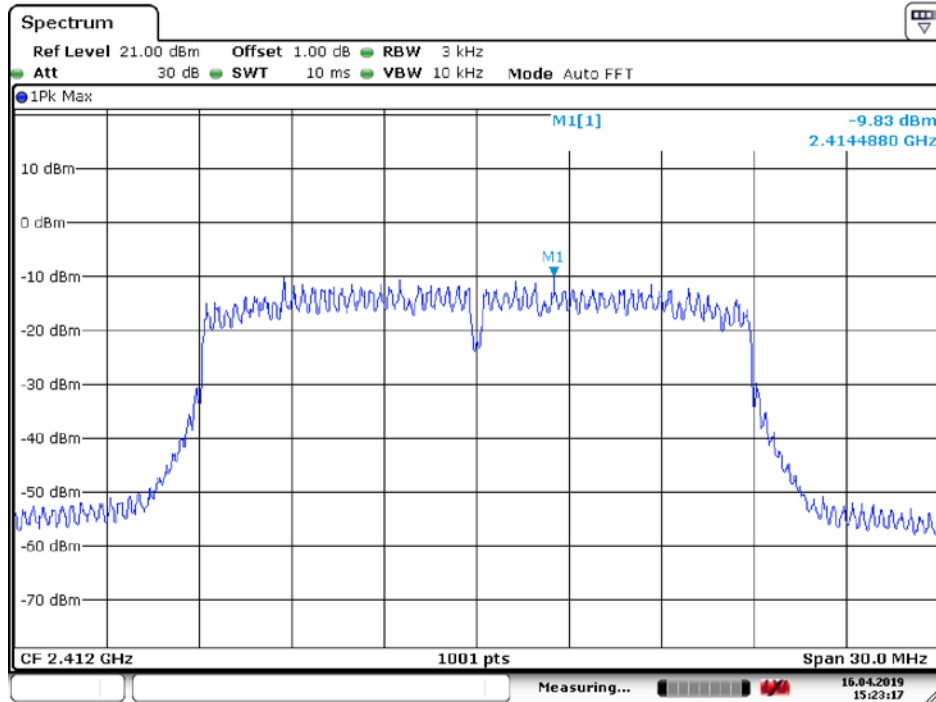


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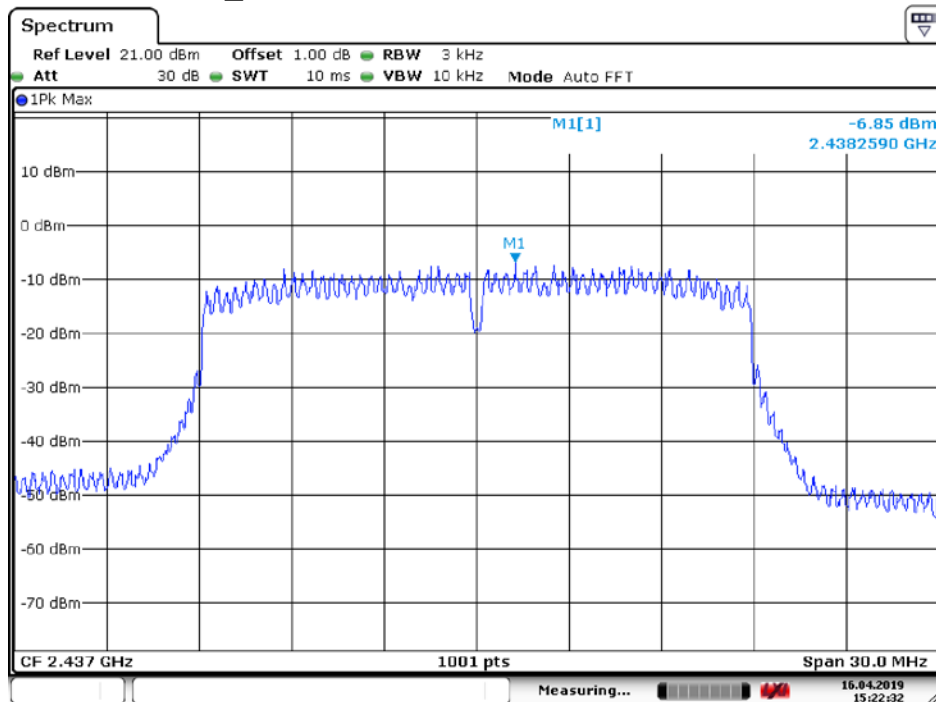
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4.6.2.1.10 802.11N20_Lowest Channel



Date: 16.APR.2019 15:23:17

4.6.2.1.11 802.11 N20_Middle Channel



Date: 16.APR.2019 15:22:32

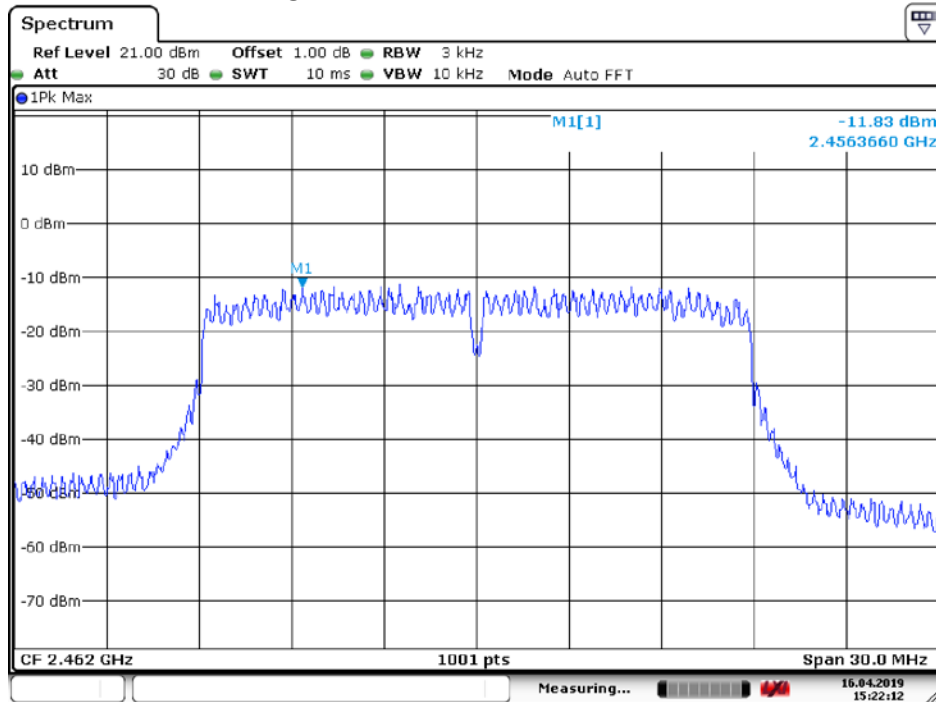


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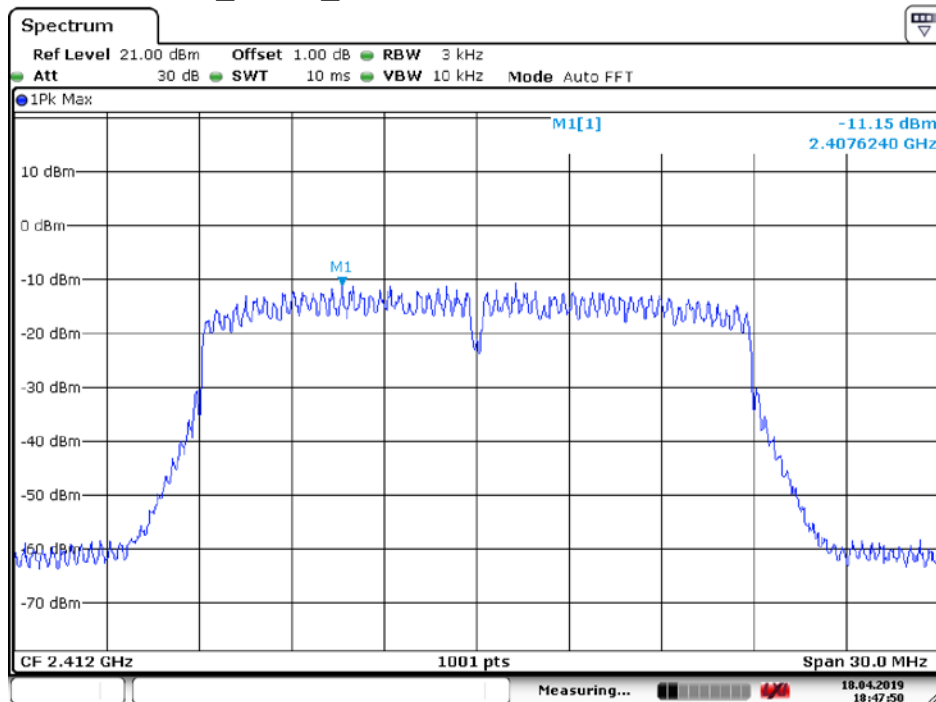
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4.6.2.1.12 802.11 N20_ Highest Channel



Date: 16.APR.2019 15:22:12

4.6.2.1.13 802.11N20_MIMO_Lowest Channel



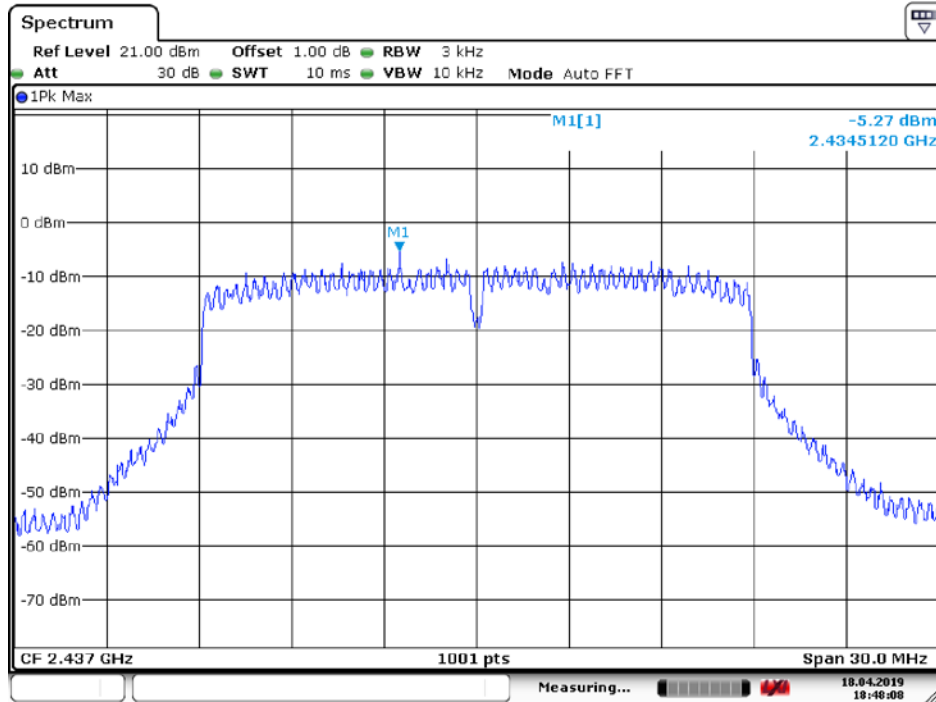
Date: 18.APR.2019 18:47:51



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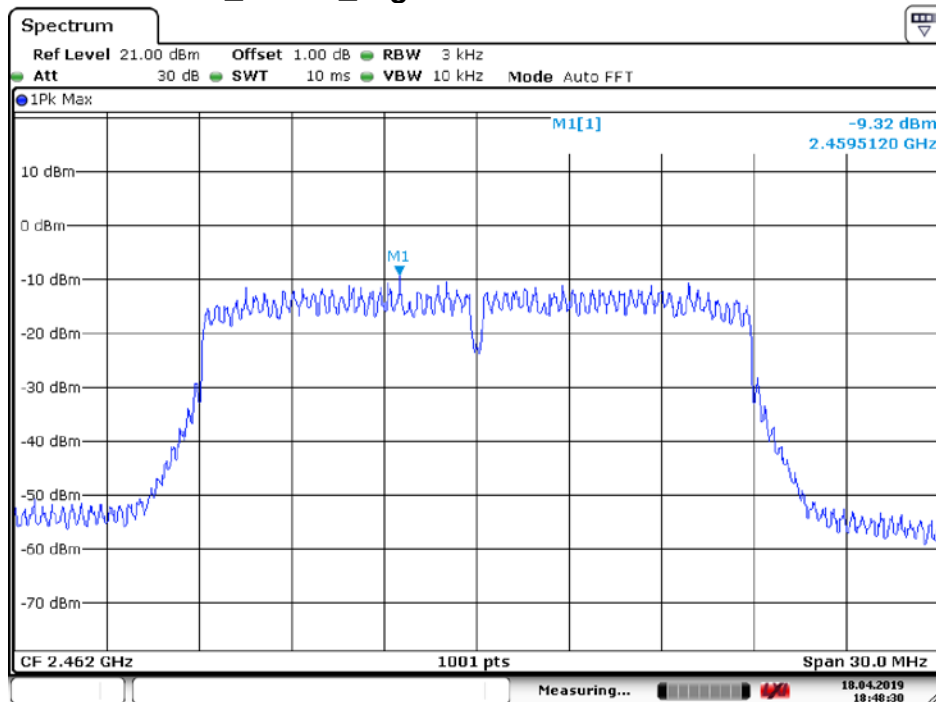
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4.6.2.1.14 802.11 N20_ MIMO_ Middle Channel



Date: 18.APR.2019 18:48:09

4.6.2.1.15 802.11 N20_ MIMO_ Highest Channel



Date: 18.APR.2019 18:48:30

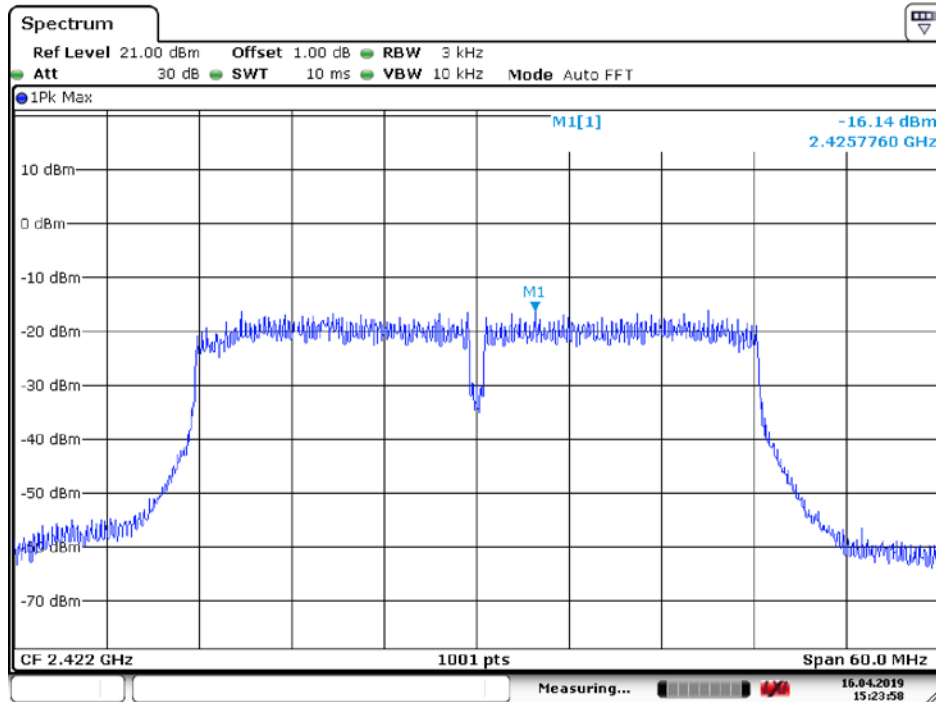


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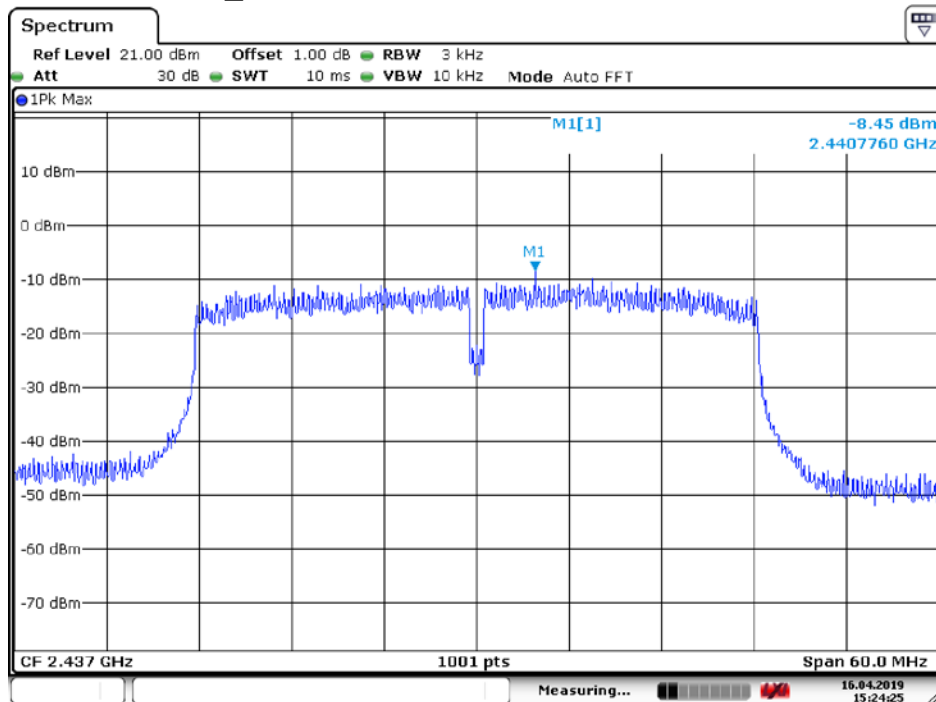
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4.6.2.1.16 802.11N40_Lowest Channel



Date: 16.APR 2019 15:23:59

4.6.2.1.17 802.11 N40_ Middle Channel



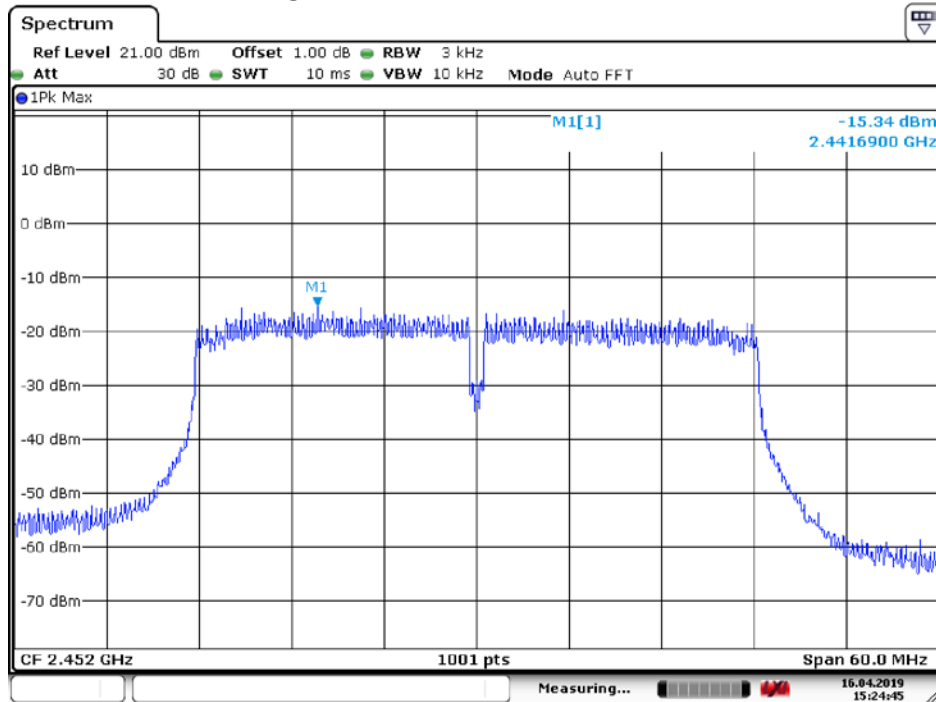
Date: 16.APR 2019 15:24:26



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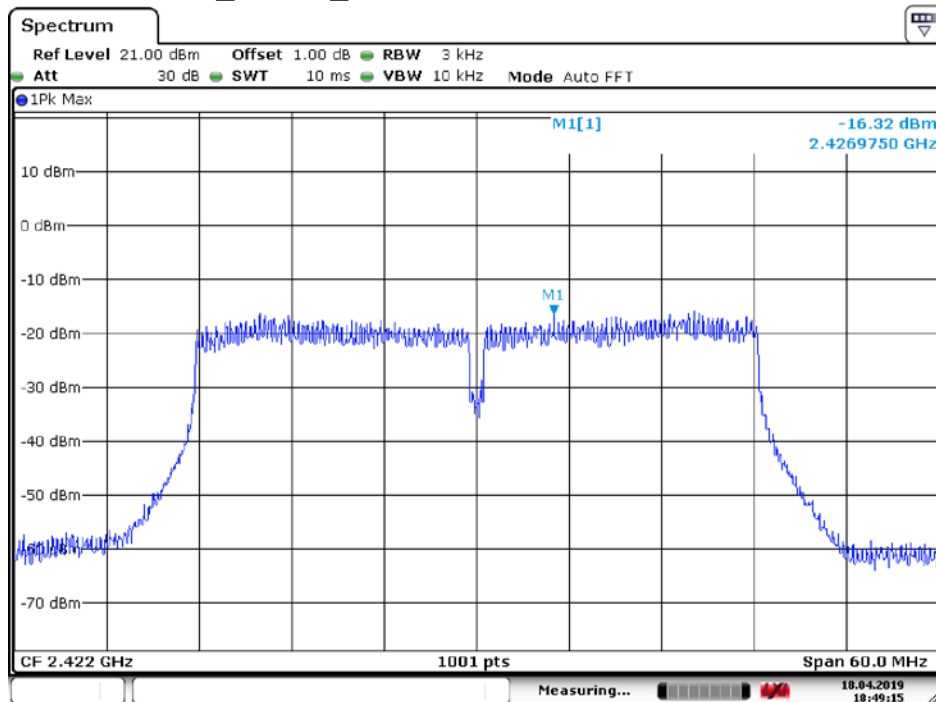
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4.6.2.1.18 802.11 N40_ Highest Channel



Date: 16.APR.2019 15:24:45

4.6.2.1.19 802.11N40_ MIMO_Lowest Channel



Date: 18.APR.2019 18:49:16

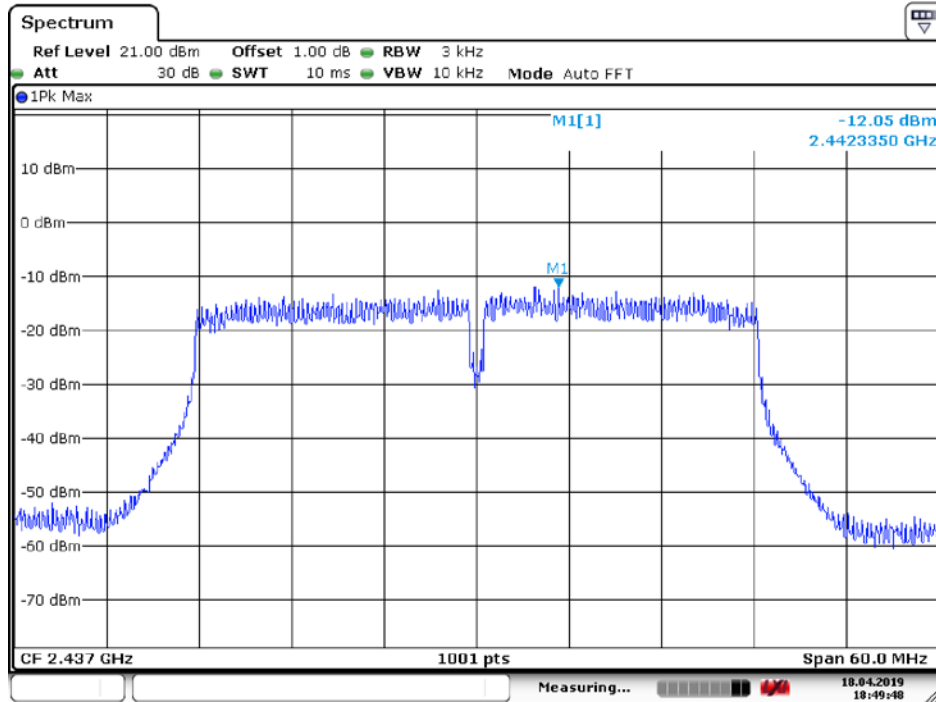


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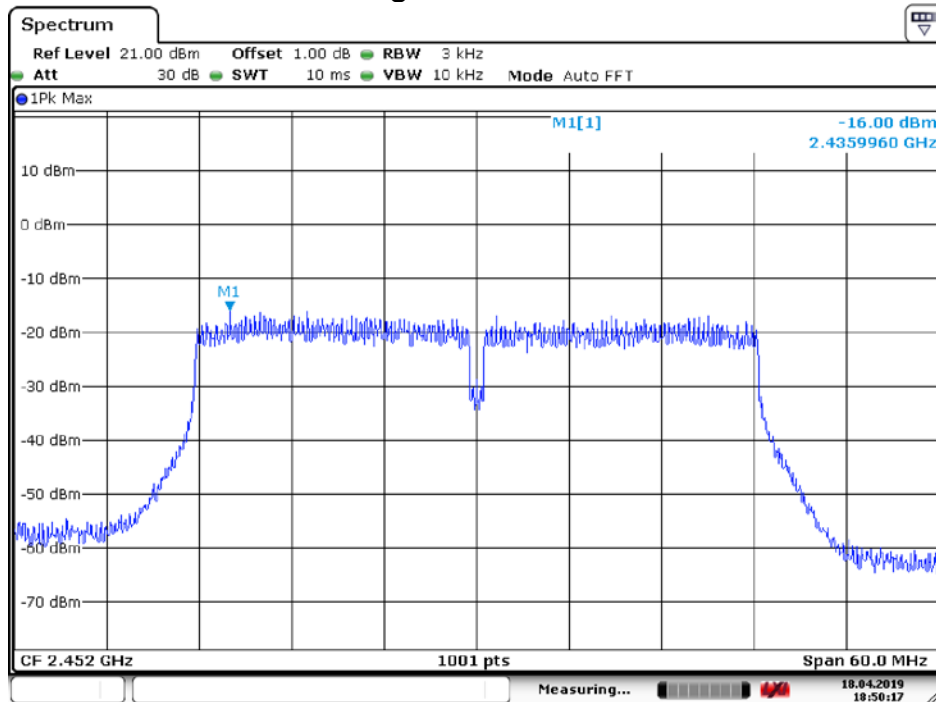
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4.6.2.1.20 802.11 N40_ MIMO_ Middle Channel



Date: 18.APR.2019 18:49:48

4.6.2.1.21 802.11 N40_ MIMO_ Highest Channel



Date: 18.APR.2019 18:50:17



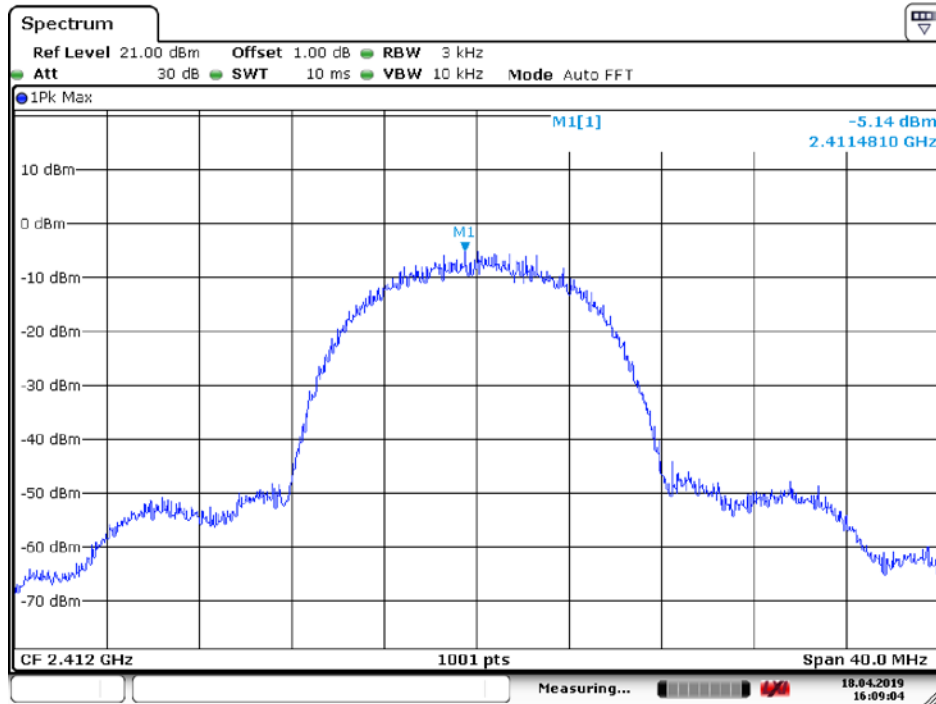
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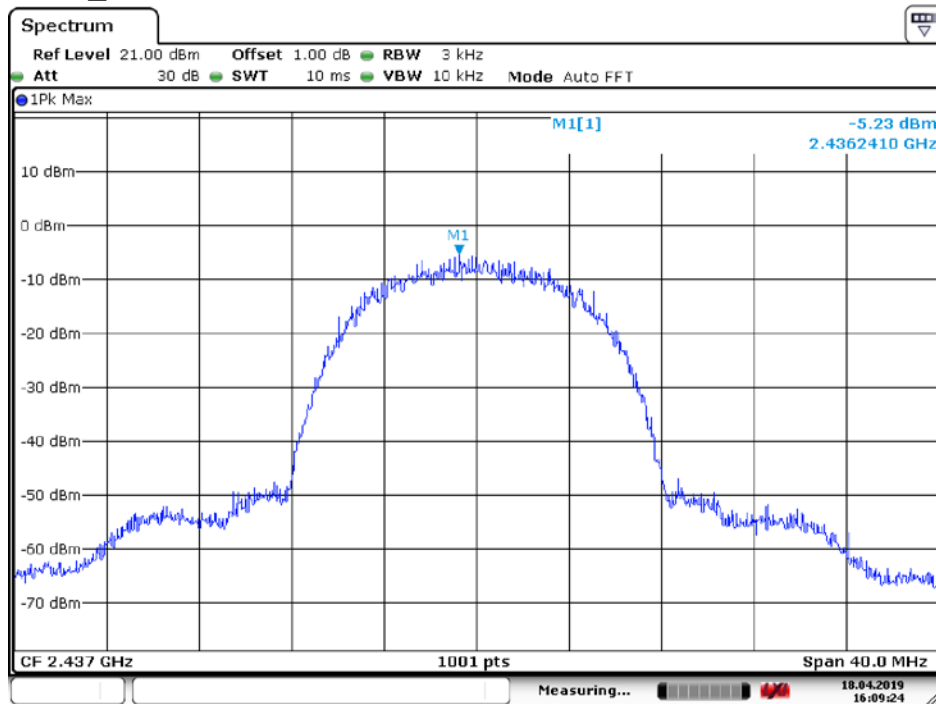
4.6.2.2 ANT2

4.6.2.2.1 802.11B_Lowest Channel



Date: 18.APR.2019 16:09:04

4.6.2.2.2 802.11B_Middle Channel

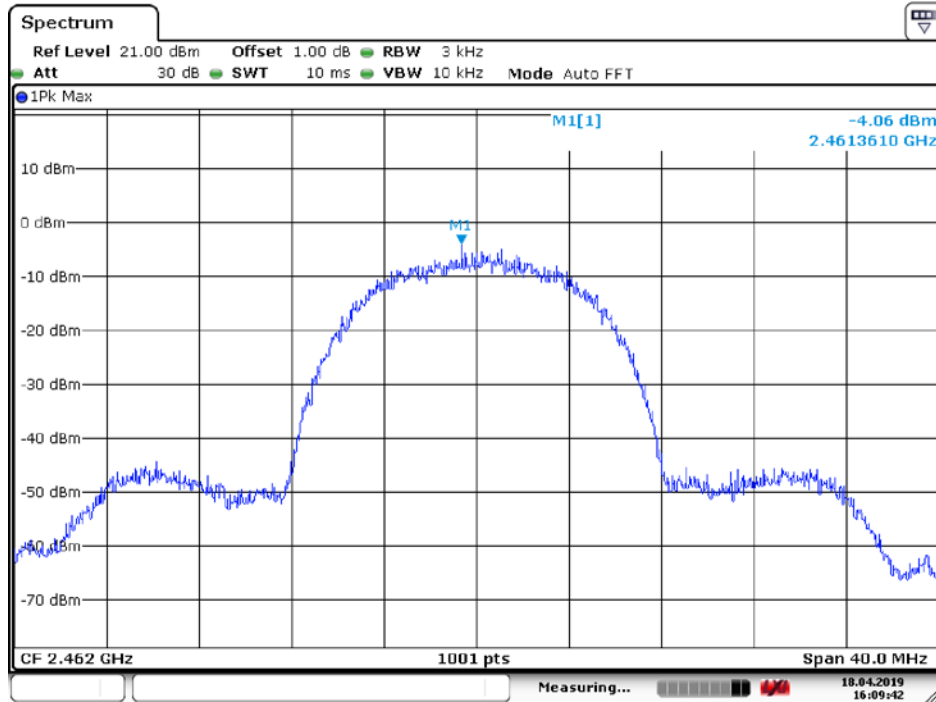


Date: 18.APR.2019 16:09:24



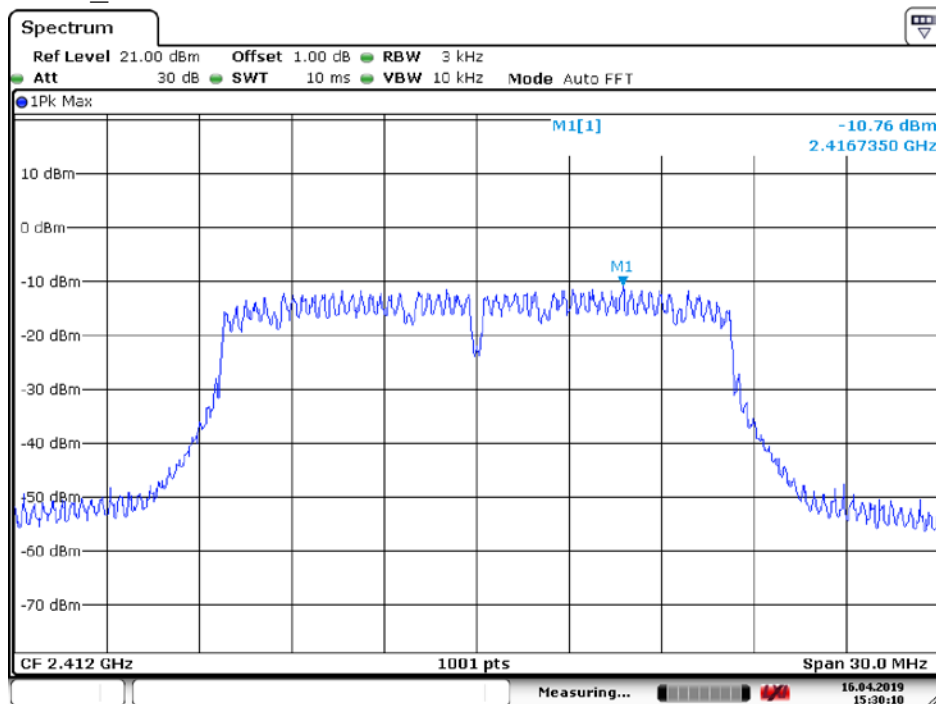
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4.6.2.2.3 802.11B_Highest Channel



Date: 18.APR.2019 16:09:43

4.6.2.2.4 802.11G_Lowest Channel



Date: 16.APR.2019 15:30:09



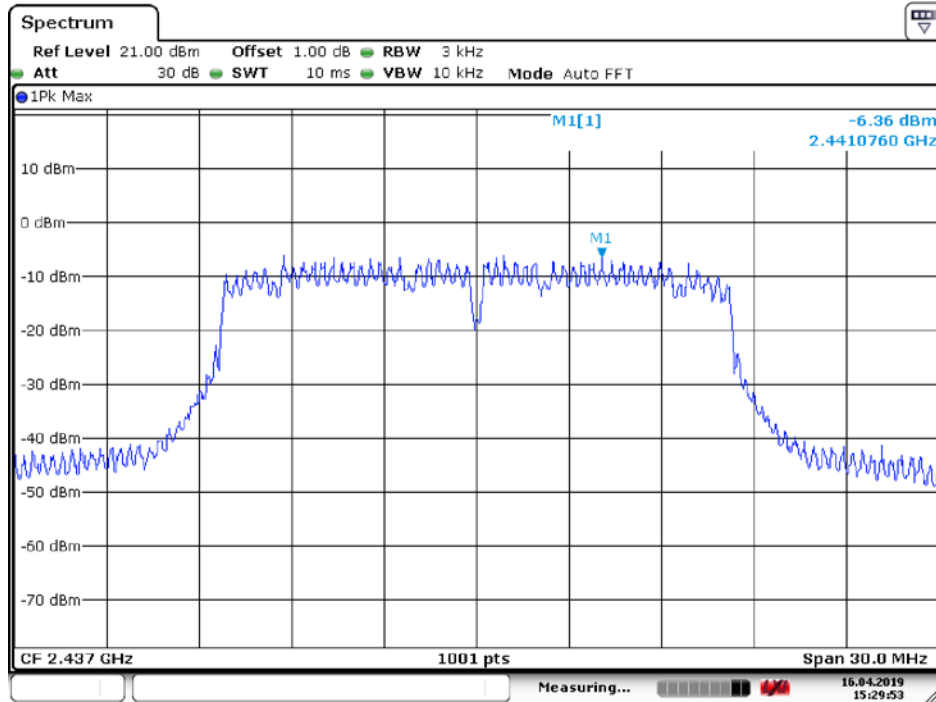
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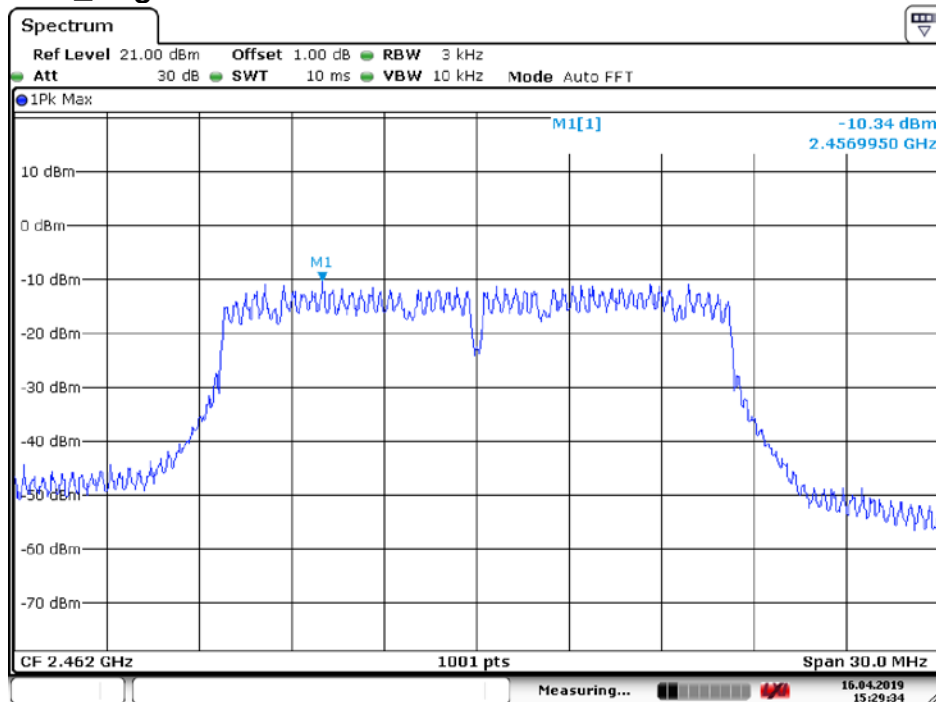
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4.6.2.2.5 802.11G_ Middle Channel



Date: 16.APR.2019 15:29:53

4.6.2.2.6 802.11G_ Highest Channel



Date: 16.APR.2019 15:29:34

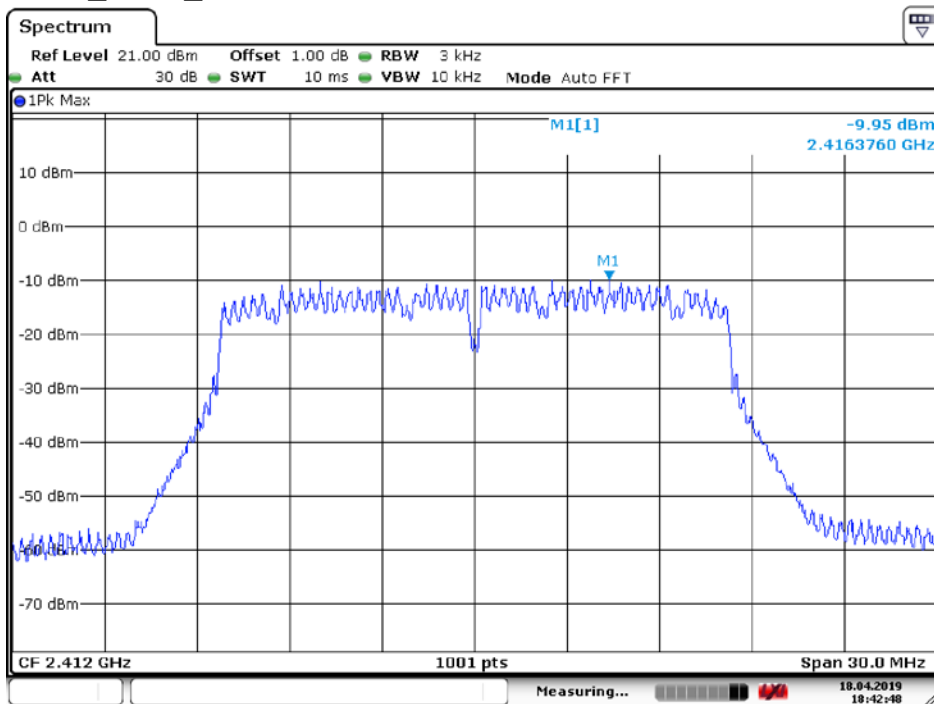


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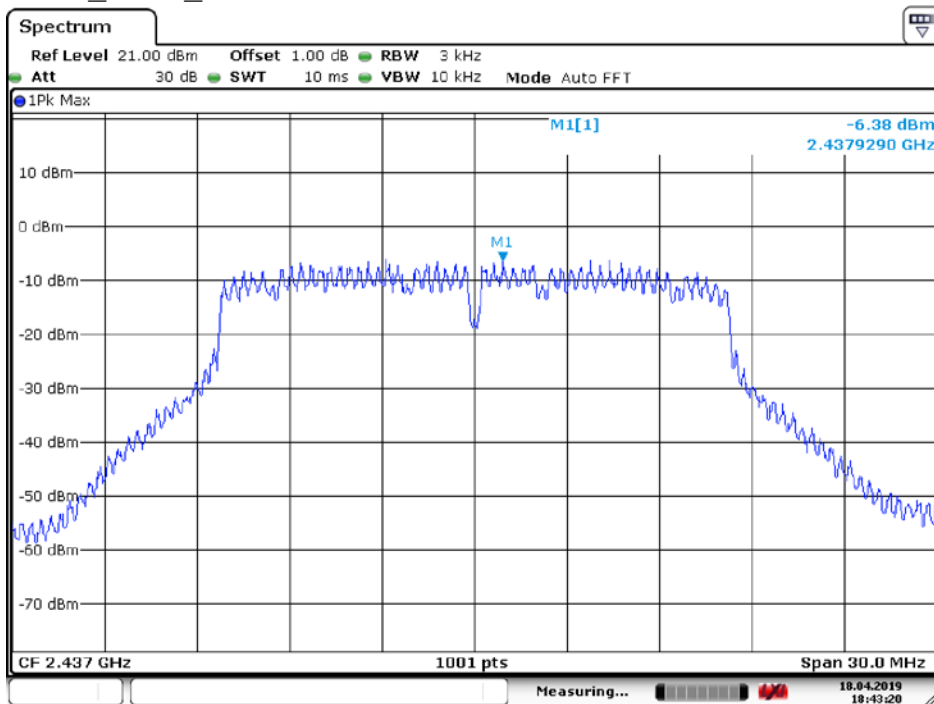
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4.6.2.2.7 802.11G_CDD_Lowest Channel



Date: 18.APR.2019 18:42:48

4.6.2.2.8 802.11G_CDD_Middle Channel



Date: 18.APR.2019 18:43:20



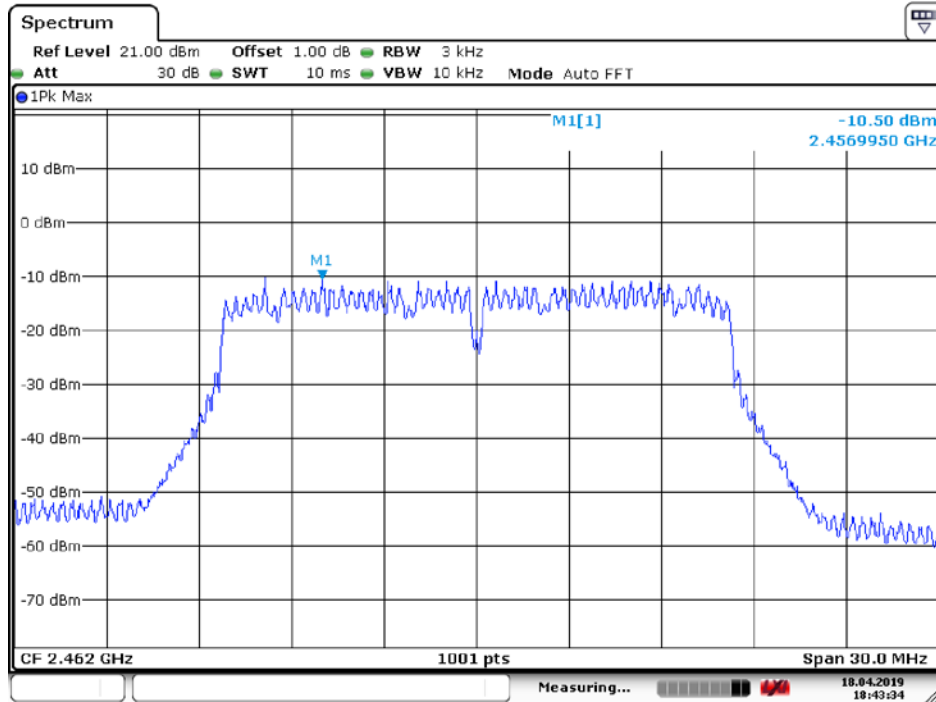
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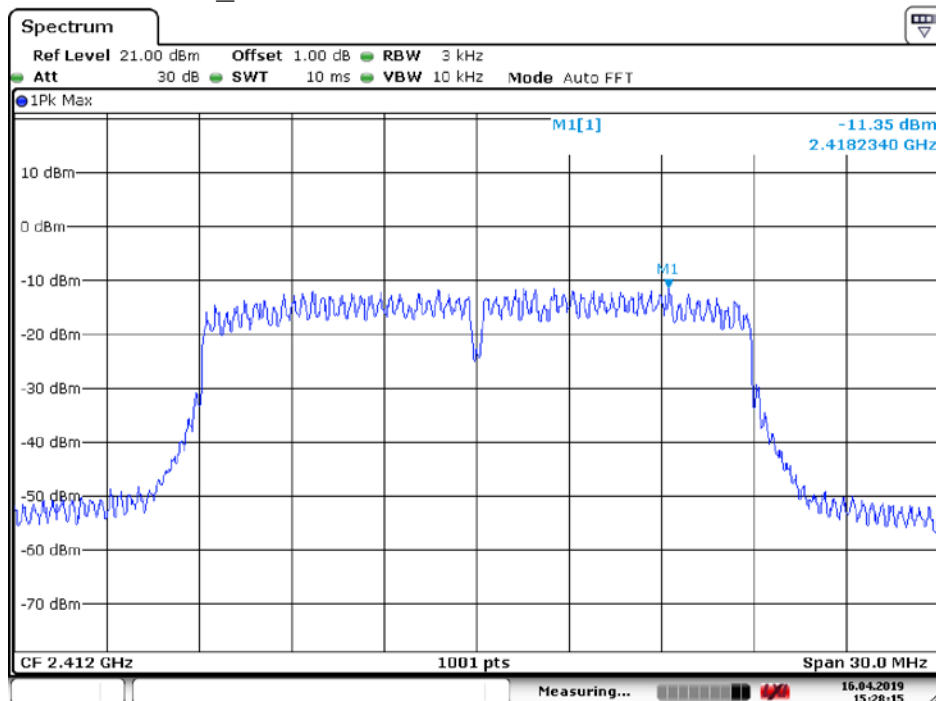
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4.6.2.2.9 802.11G_CDD_Highest Channel



Date: 18.APR.2019 18:43:35

4.6.2.2.10 802.11N20_Lowest Channel



Date: 16.APR.2019 15:28:15

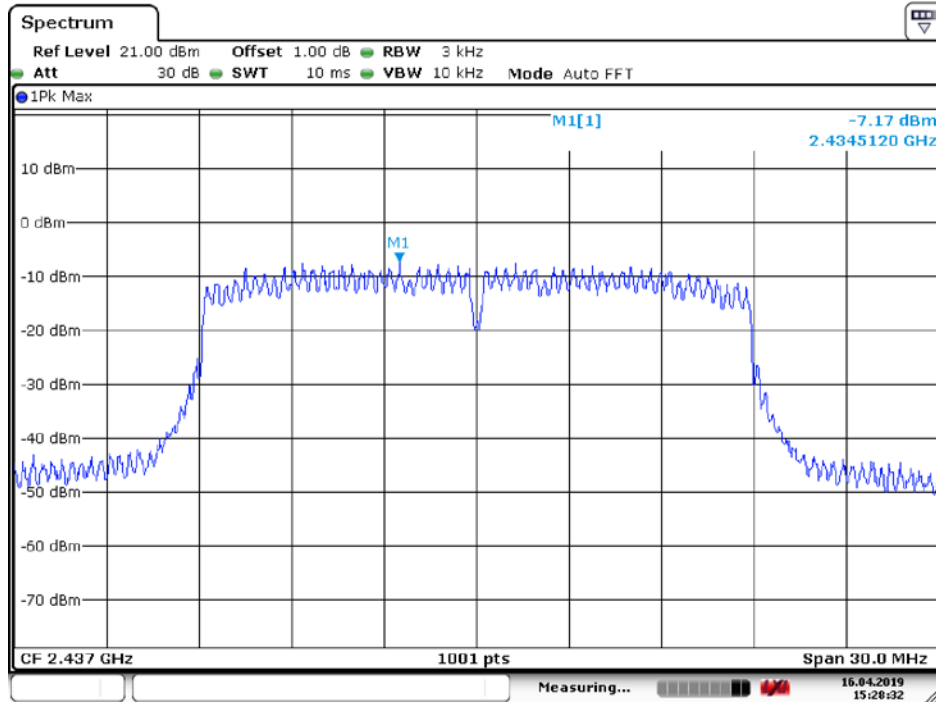


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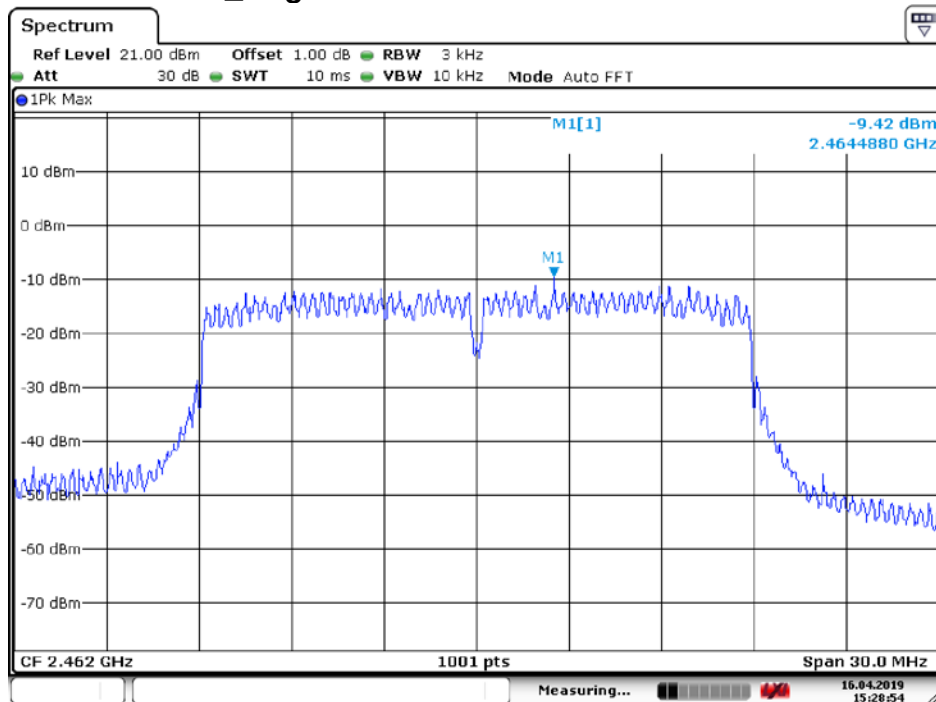
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4.6.2.2.11 802.11 N20_ Middle Channel



Date: 16.APR.2019 15:28:33

4.6.2.2.12 802.11 N20_ Highest Channel



Date: 16.APR.2019 15:28:54

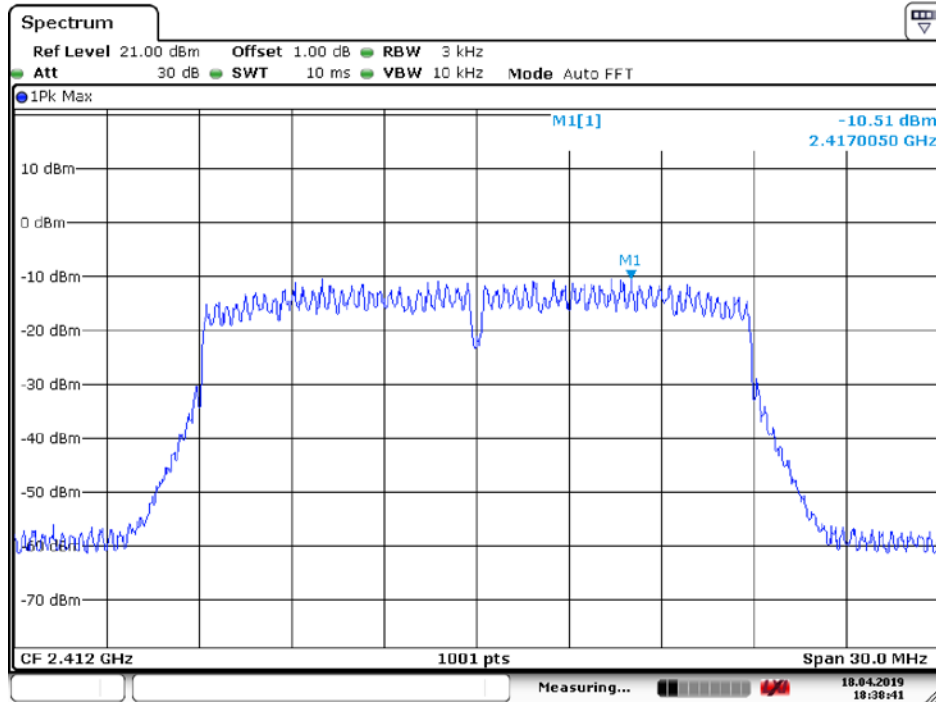


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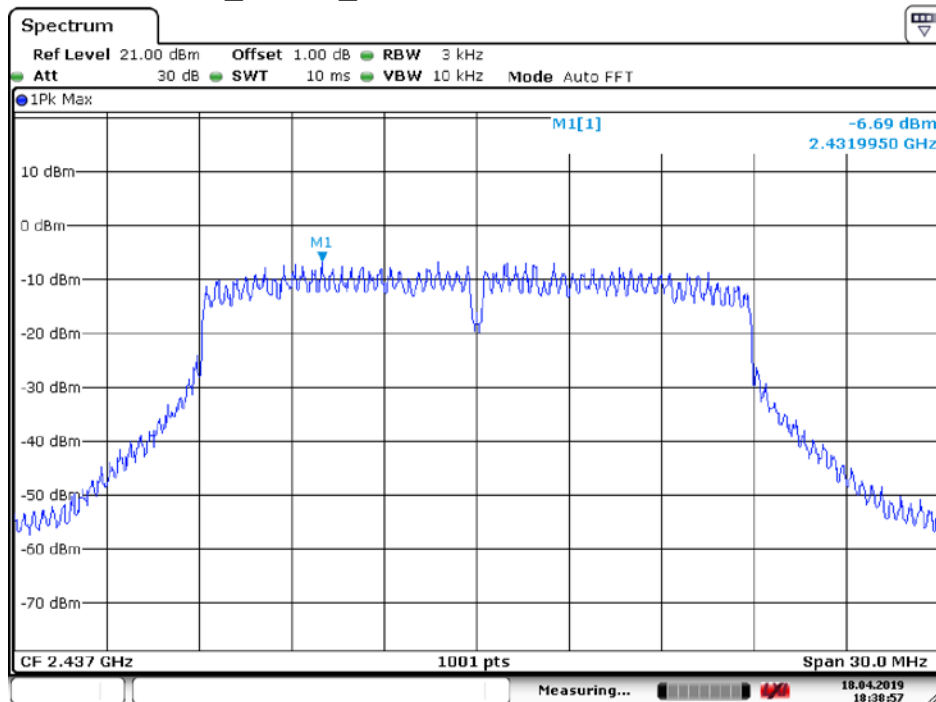
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4.6.2.2.13 802.11N20_MIMO_Lowest Channel



Date: 18.APR.2019 18:38:42

4.6.2.2.14 802.11 N20_MIMO_Middle Channel

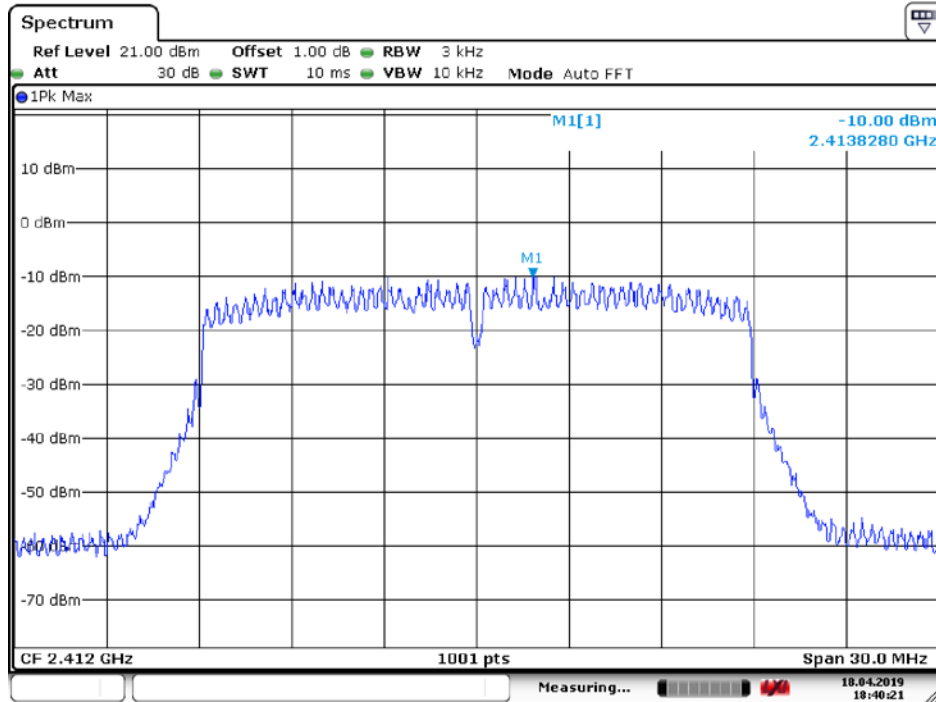


Date: 18.APR.2019 18:38:57



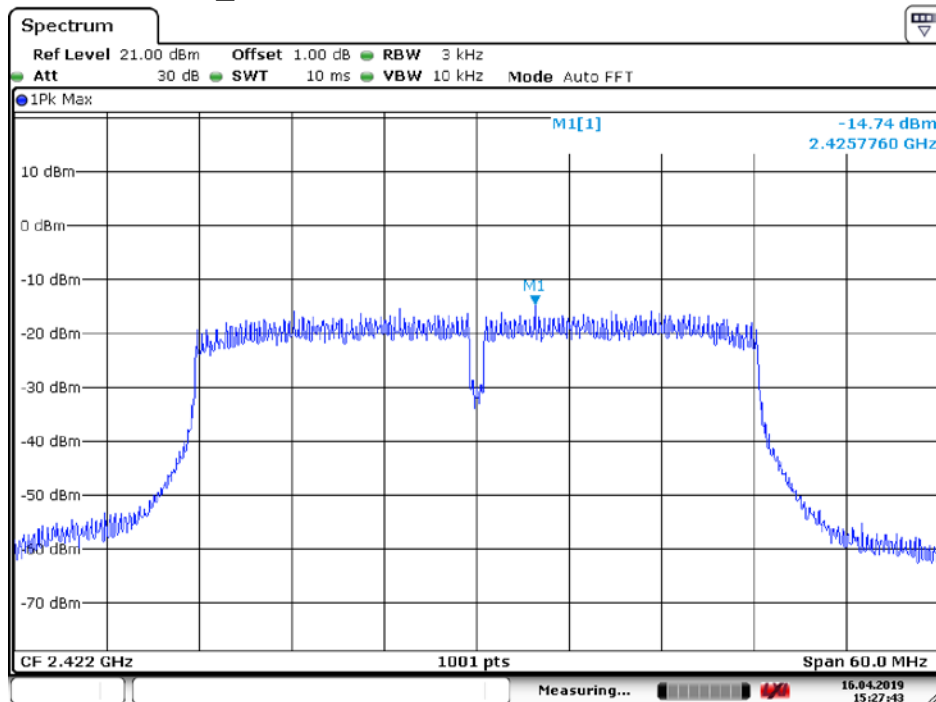
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4.6.2.2.15 802.11 N20_ MIMO_Highest Channel



Date: 18.APR.2019 18:40:21

4.6.2.2.16 802.11N40_Lowest Channel



Date: 16.APR.2019 15:27:43

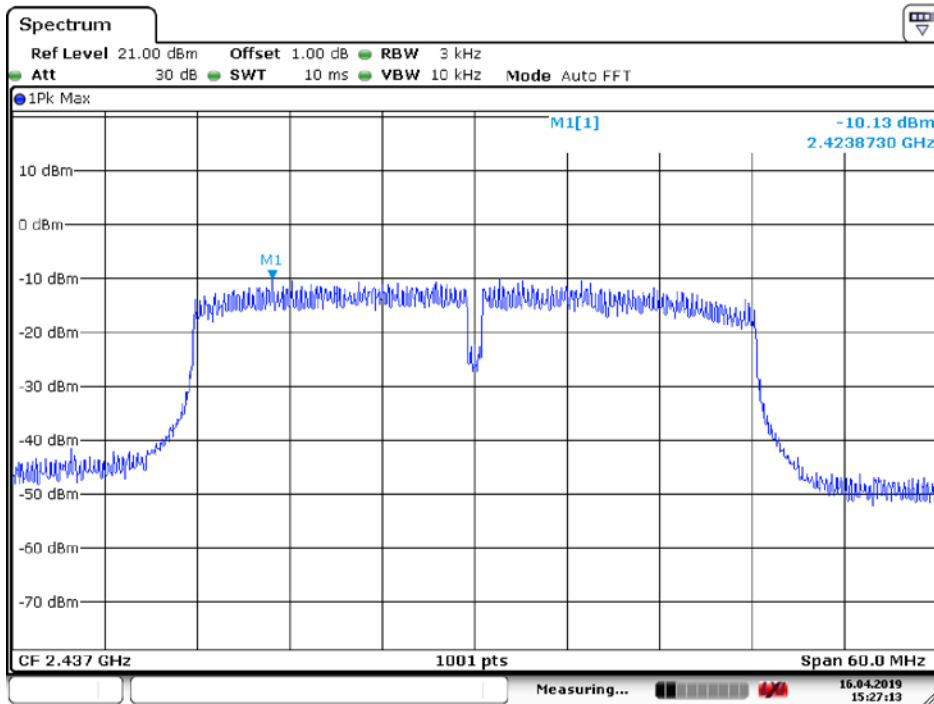


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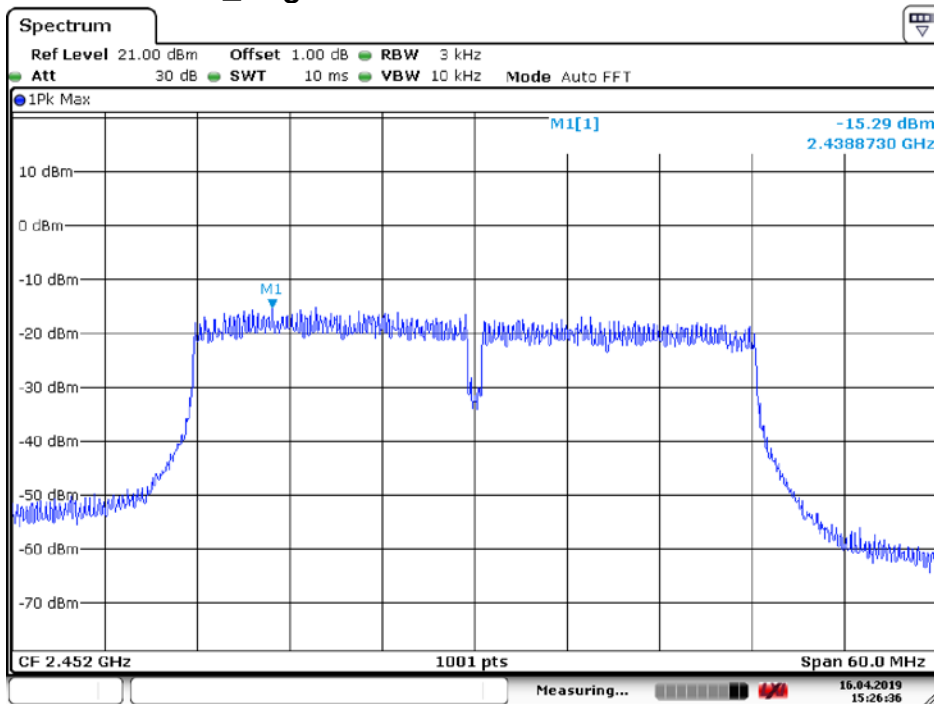
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4.6.2.2.17 802.11 N40_ Middle Channel



Date: 16.APR.2019 15:27:14

4.6.2.2.18 802.11 N40_ Highest Channel



Date: 16.APR.2019 15:26:36

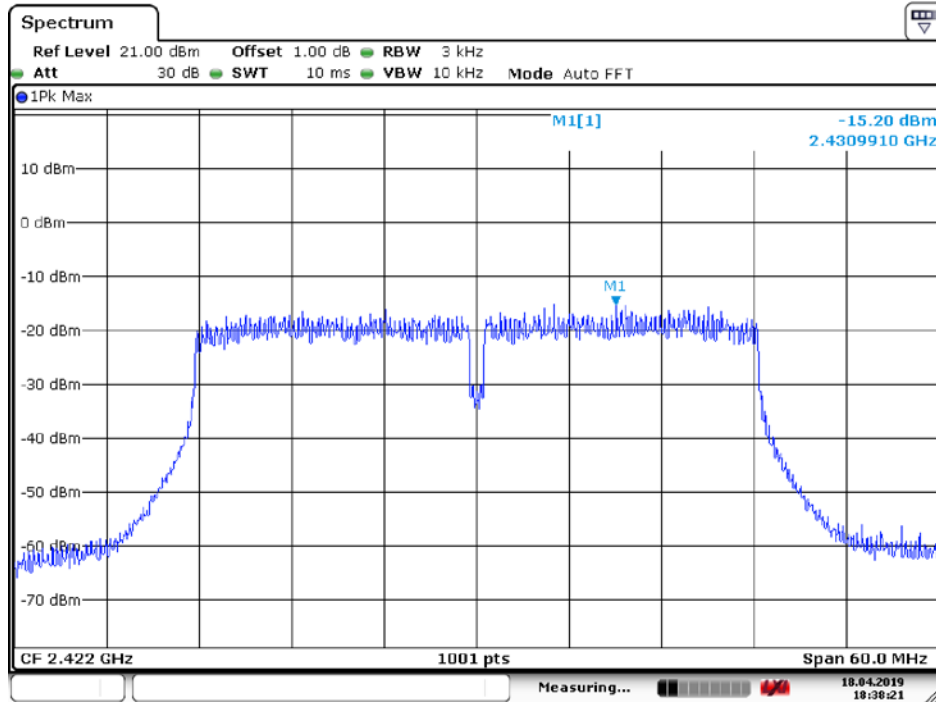


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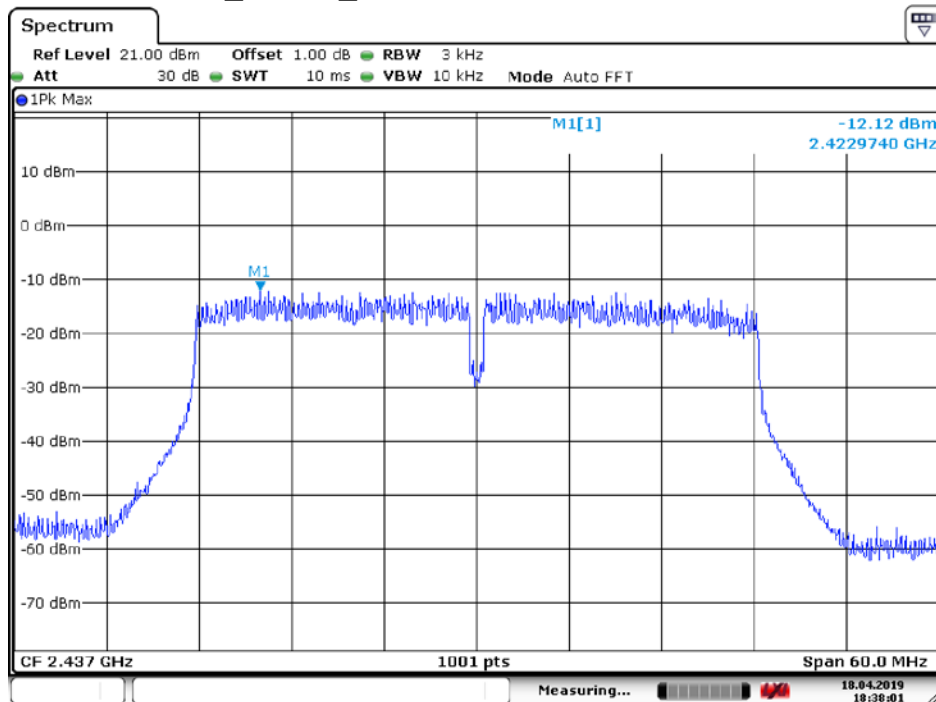
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4.6.2.2.19 802.11N40_ MIMO_ Lowest Channel



Date: 18.APR.2019 18:38:22

4.6.2.2.20 802.11 N40_ MIMO_ Middle Channel

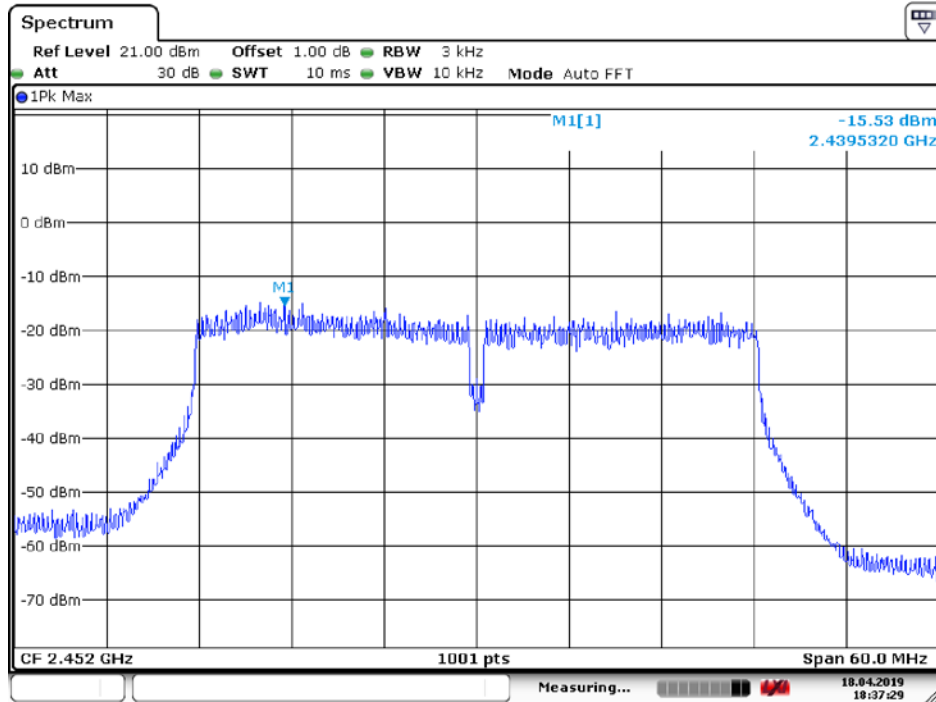


Date: 18.APR.2019 18:38:01



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4.6.2.2.21 802.11 N40_MIMO_Highest Channel



Date: 18.APR.2019 18:37:30



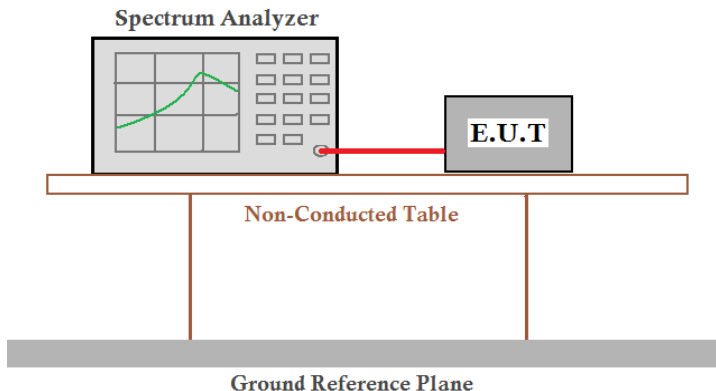
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 Shenzhen Branch Testing Center, EEC Laboratory

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4.7 Band-edge for RF Conducted Emissions

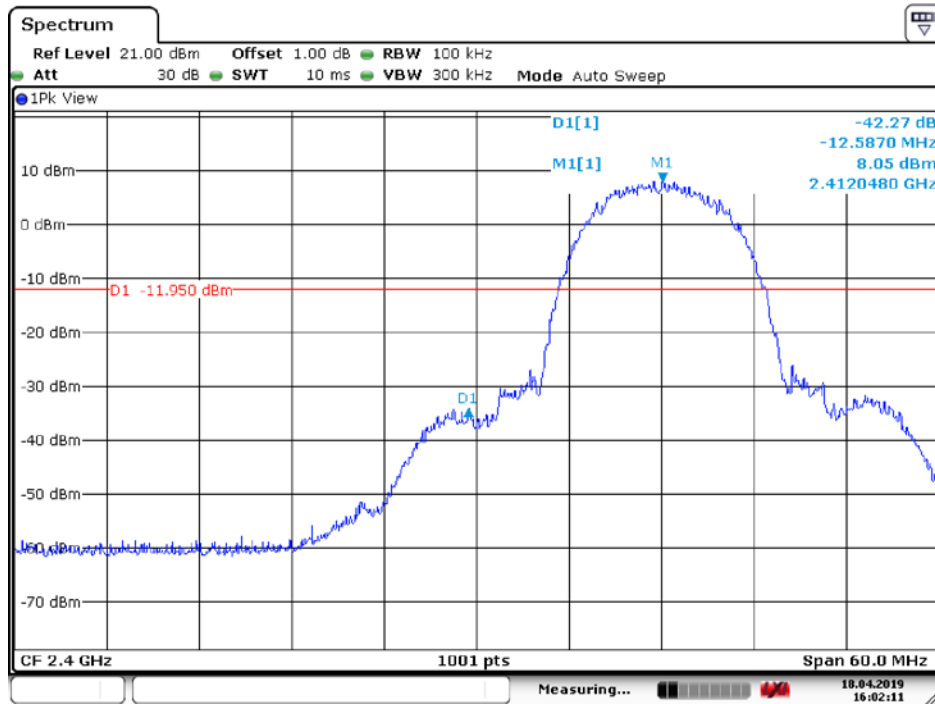
Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013 Section 11.13
Test Setup:	 The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both the Spectrum Analyzer and the E.U.T. are placed on a Non-Conducted Table. The table is supported by two vertical legs and sits on a Ground Reference Plane.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 11Mbps of rate is the worst case of 802.11B; 6Mbps of rate is the worst case of 802.11G ; 6.5Mbps of rate is the worst case of 802.11N(HT20) ; 13.5Mbps of rate is the worst case of 802.11N(HT40).
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass



4.7.1 Test plots

4.7.1.1 ANT1

4.7.1.1.1 802.11B_Lowest Channel



Date: 18.APR.2019 16:02:11



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