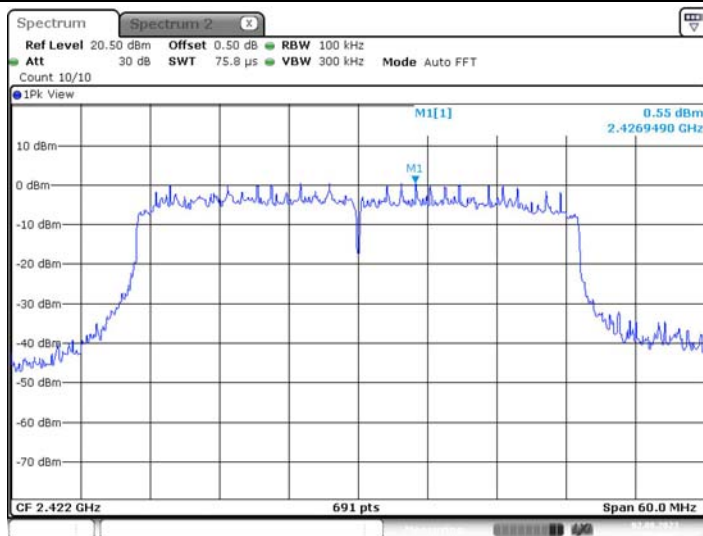
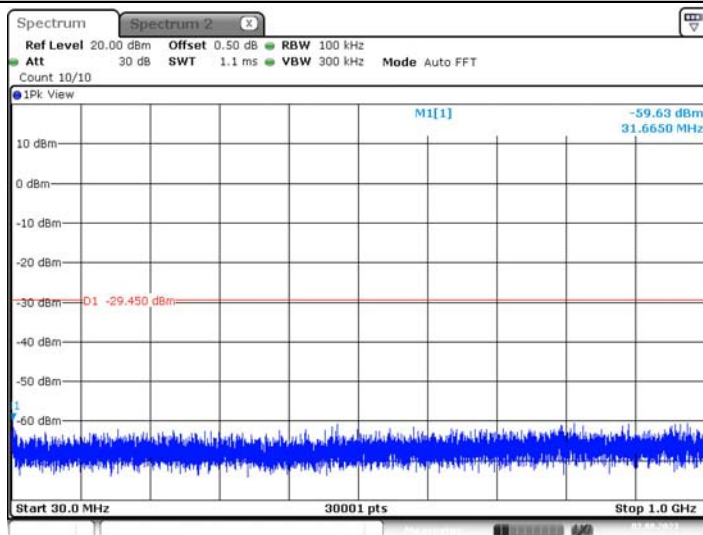




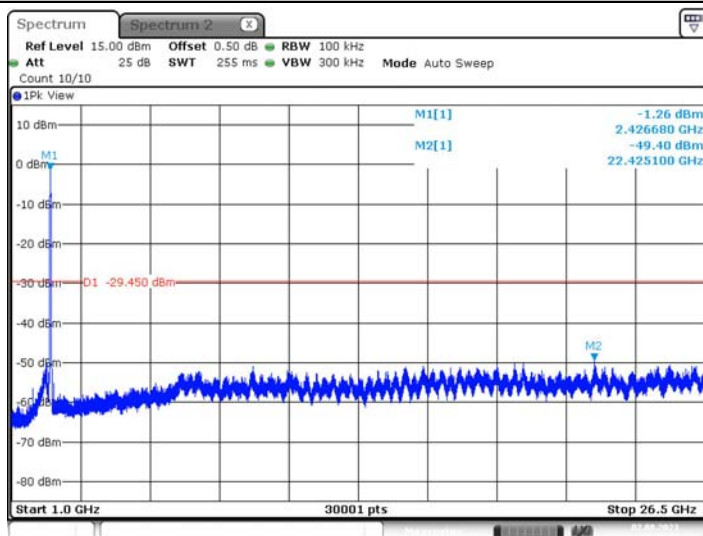
802.11ax(HE40)_2422_0~Reference



802.11ax(HE40)_2422_30~1000



802.11ax(HE40)_2422_1000~26500



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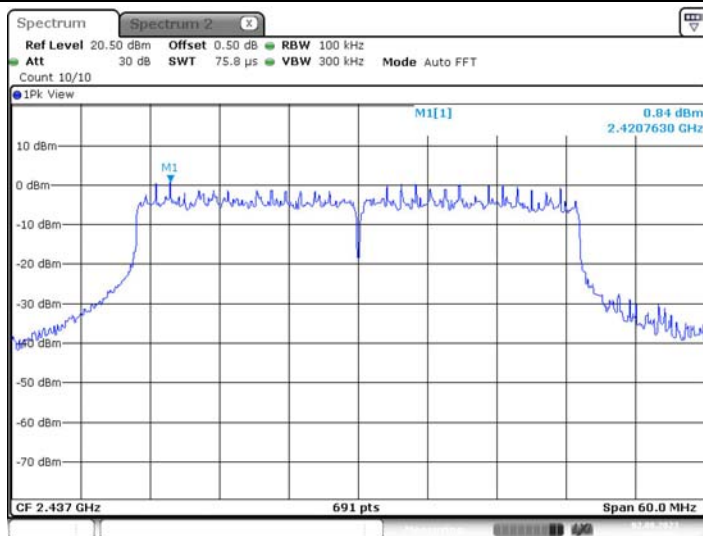
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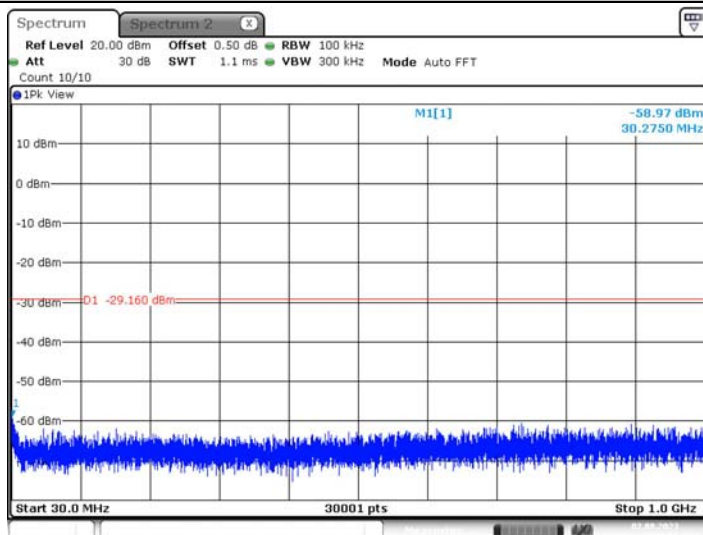


802.11ax(HE40)_2437_0~Reference



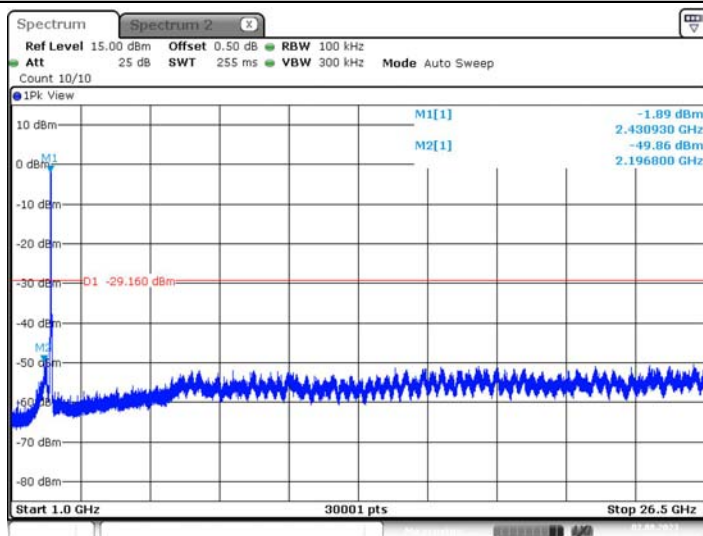
Date: 2.AUG.2023 10:52:49

802.11ax(HE40)_2437_30~1000



Date: 2.AUG.2023 10:52:55

802.11ax(HE40)_2437_1000~26500



Date: 2.AUG.2023 10:53:18

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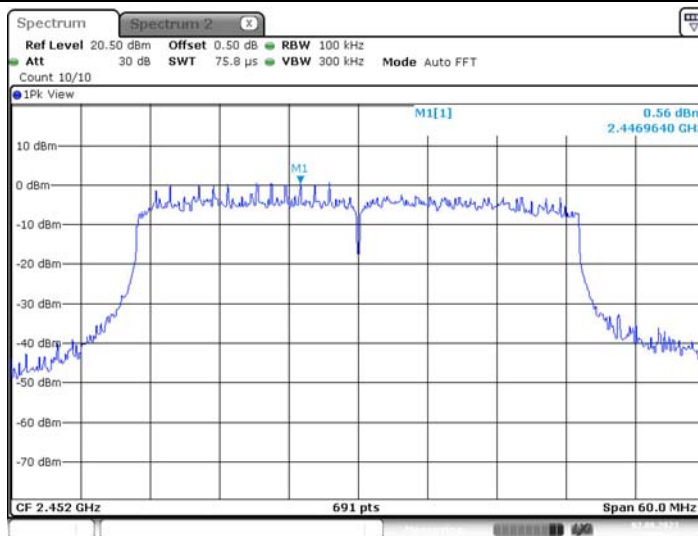
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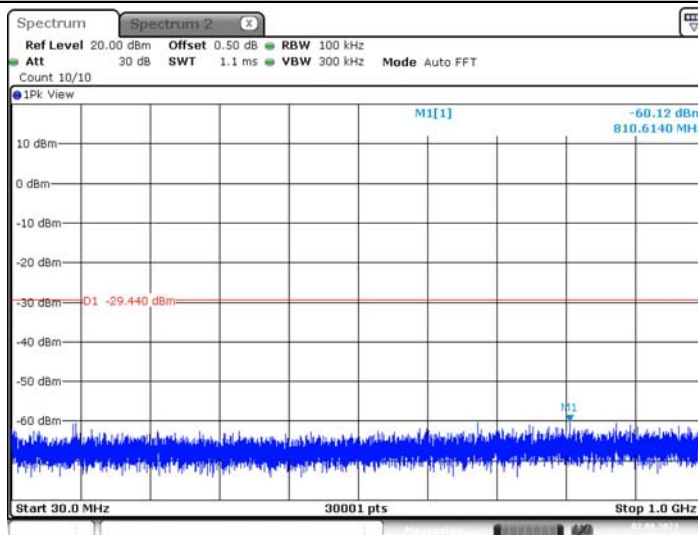


802.11ax(HE40)_2452_0~Reference



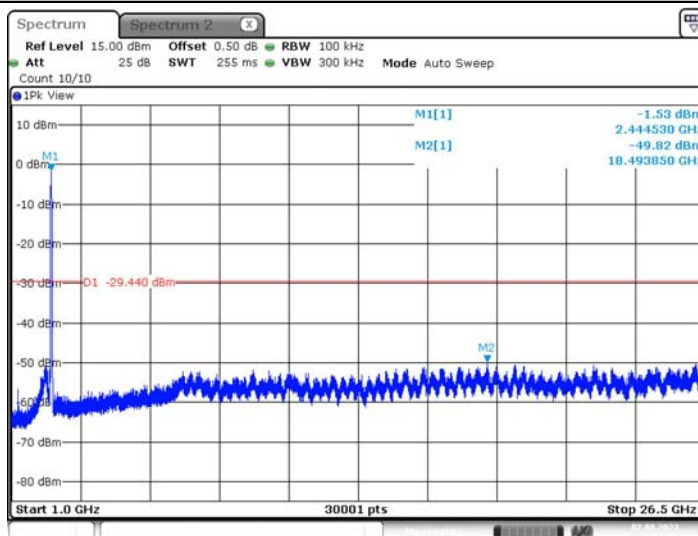
Date: 2.AUG.2023 10:56:36

802.11ax(HE40)_2452_30~1000



Date: 2.AUG.2023 10:56:42

802.11ax(HE40)_2452_1000~26500



Date: 2.AUG.2023 10:57:05

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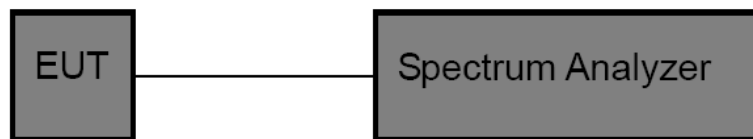
3.5. DTS Bandwidth

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (a)(2)/ RSS-247 5.2 a:

Test Item	Limit	Frequency Range(MHz)
DTS Bandwidth	≥ 500 KHz (6dB bandwidth)	2400~2483.5

Test Configuration



Test Procedure

5. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
6. DTS Spectrum Setting:
 - (1) Set RBW = 100 kHz.
 - (2) Set the video bandwidth (VBW) ≥ 3 RBW.
 - (3) Detector = Peak.
 - (4) Trace mode = Max hold.
 - (5) Sweep = Auto couple.
- OCB Spectrum Setting:
 - (1) Set RBW = 1% ~ 5% occupied bandwidth.
 - (2) Set the video bandwidth (VBW) ≥ 3 RBW.
 - (3) Detector = Peak.
 - (4) Trace mode = Max hold.
 - (5) Sweep = Auto couple.

NOTE: The EUT was set to continuously transmitting in each mode and low, Middle and high channel for the test.

Test Mode

Please refer to the clause 2.4.

**Test Results**

Test Mode	Channel	OBW [MHz]	DTS BW [MHz]	Limit [MHz]	Verdict
802.11b	2412	12.547	8.08	>=0.5	PASS
	2437	12.507	8.04	>=0.5	PASS
	2462	12.388	8.04	>=0.5	PASS
802.11g	2412	16.783	16.36	>=0.5	PASS
	2437	16.863	16.32	>=0.5	PASS
	2462	16.863	16.32	>=0.5	PASS
802.11n(HT20)	2412	17.702	17.56	>=0.5	PASS
	2437	17.742	16.12	>=0.5	PASS
	2462	17.822	16.68	>=0.5	PASS
802.11n(HT40)	2422	36.444	35.68	>=0.5	PASS
	2437	36.603	35.28	>=0.5	PASS
	2452	36.444	35.28	>=0.5	PASS
802.11ax(HE20)	2412	18.901	15.88	>=0.5	PASS
	2437	18.821	16.08	>=0.5	PASS
	2462	18.781	15.44	>=0.5	PASS
802.11ax(HE40)	2422	37.962	34.16	>=0.5	PASS
	2437	37.642	35.12	>=0.5	PASS
	2452	37.642	35.52	>=0.5	PASS

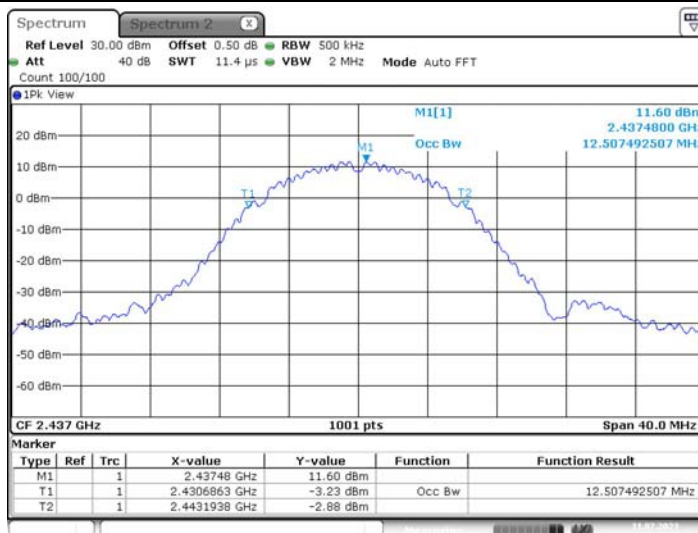


802.11b_2412



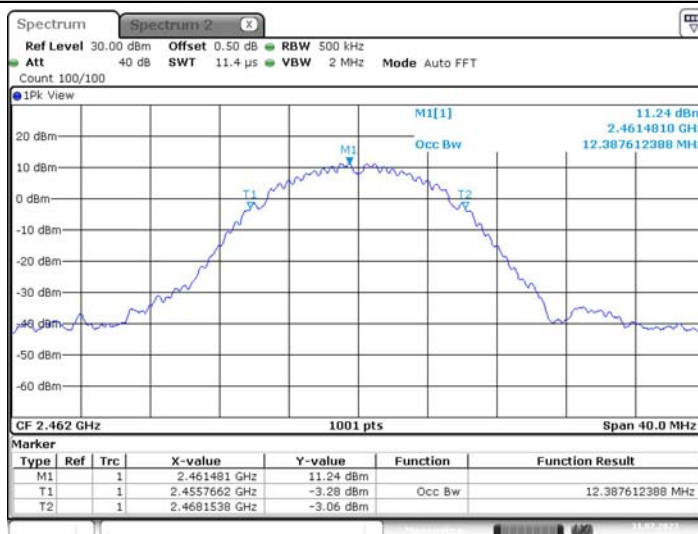
Date: 31.JUL.2023 14:22:54

802.11b_2437



Date: 31.JUL.2023 14:25:33

802.11b_2462



Date: 31.JUL.2023 14:27:31

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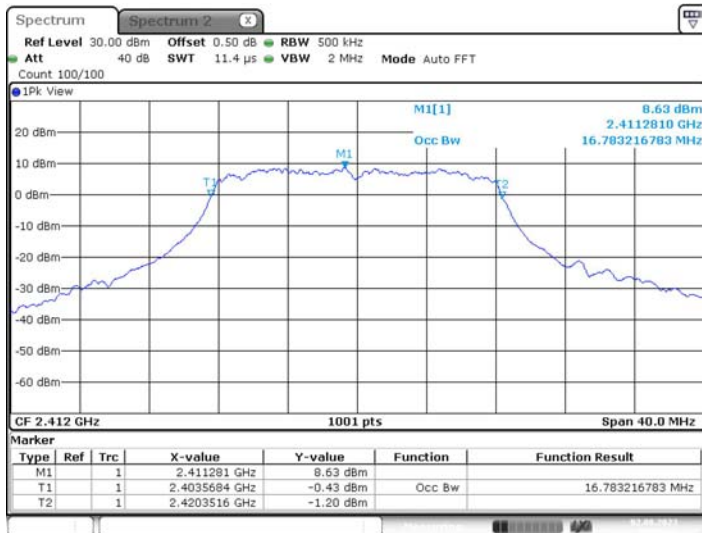
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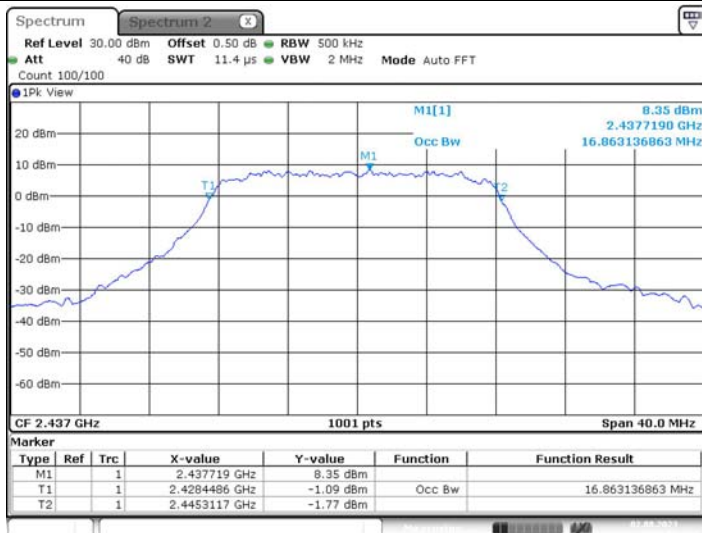


802.11g_2412



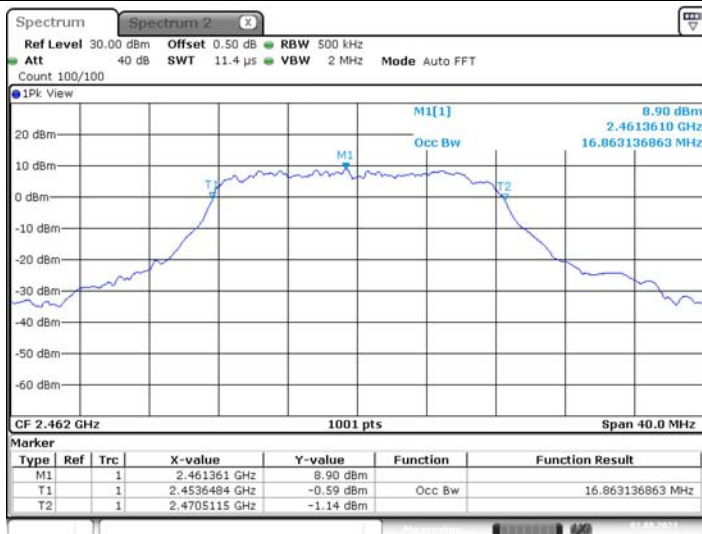
Date: 2.AUG.2023 09:56:30

802.11g_2437



Date: 2.AUG.2023 10:02:58

802.11g_2462



Date: 2.AUG.2023 10:08:14

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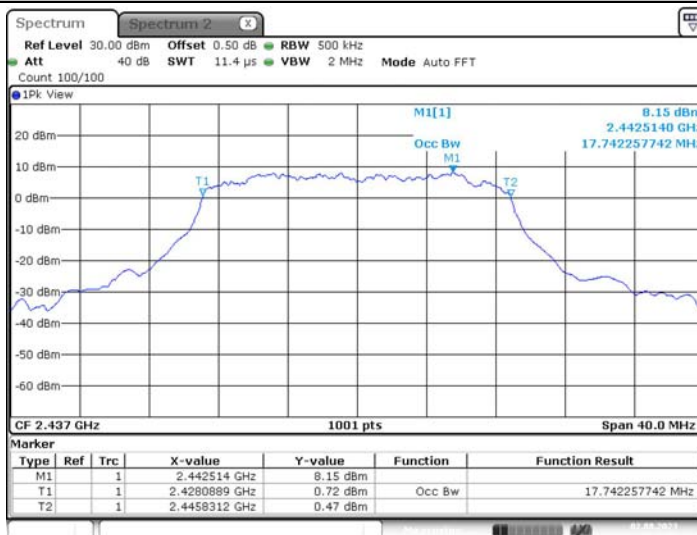


802.11n(HT20)_2412



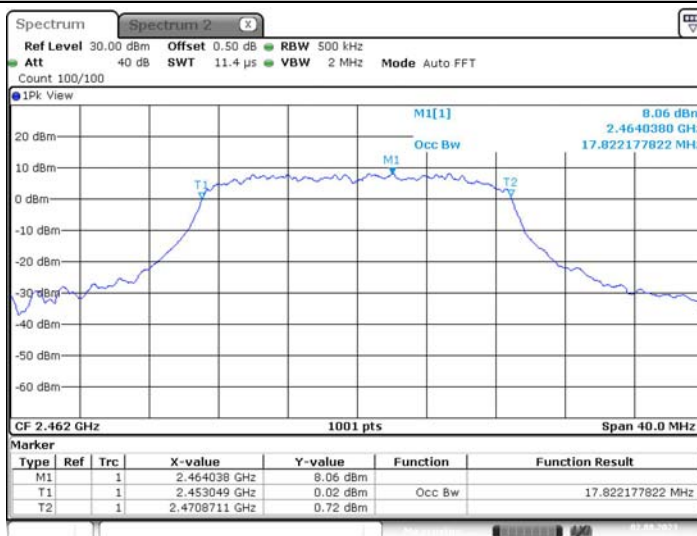
Date: 2.AUG.2023 10:11:26

802.11n(HT20)_2437



Date: 2.AUG.2023 10:17:04

802.11n(HT20)_2462



Date: 2.AUG.2023 10:20:16

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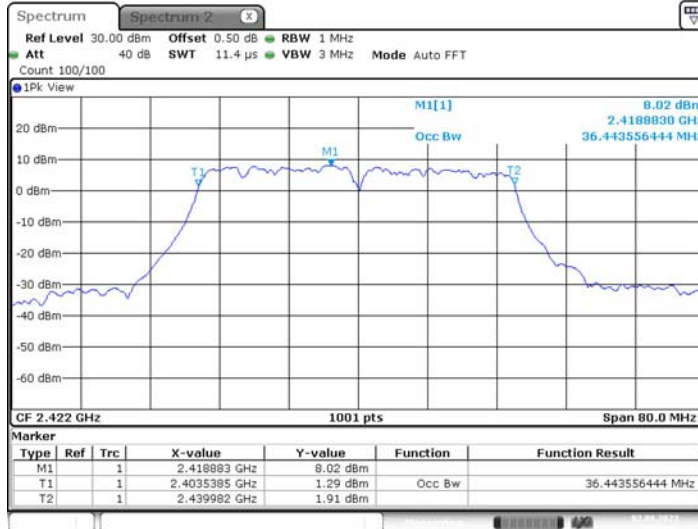
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802.11n(HT40)_2422



Date: 2.AUG.2023 10:24:46

802.11n(HT40)_2437



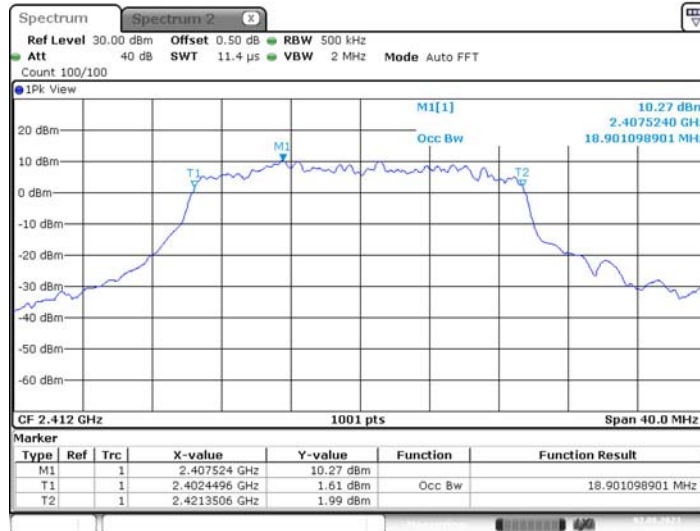
Date: 2.AUG.2023 10:27:32

802.11n(HT40)_2452



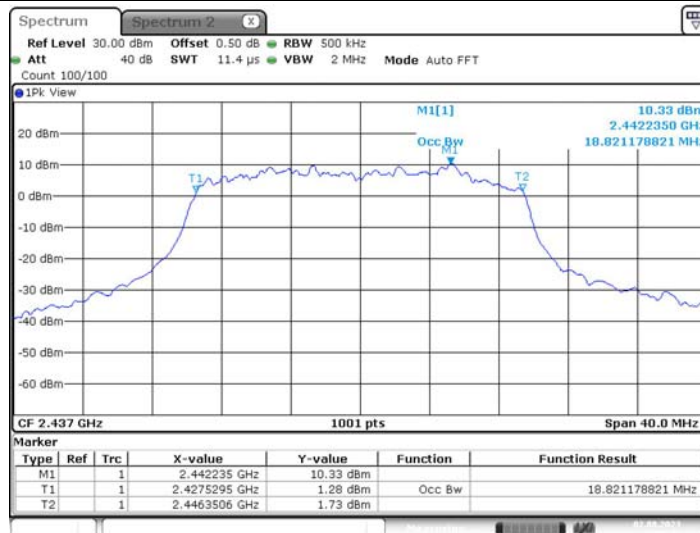
Date: 2.AUG.2023 10:30:18

802.11ax(HE20)_2412



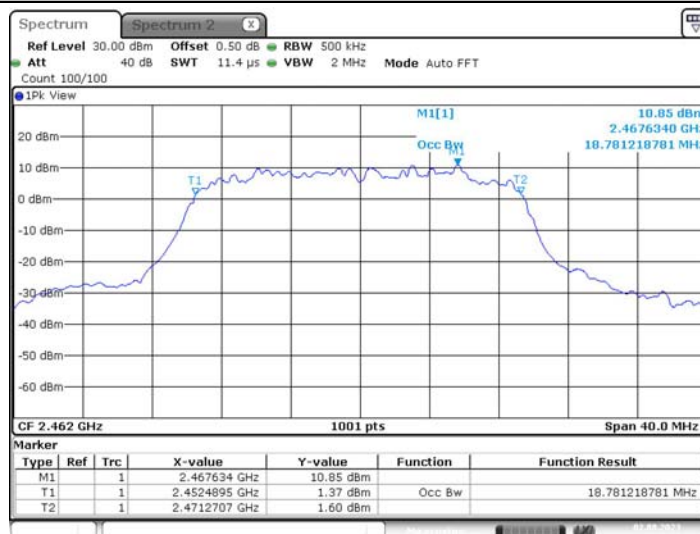
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802.11ax(HE20)_2437



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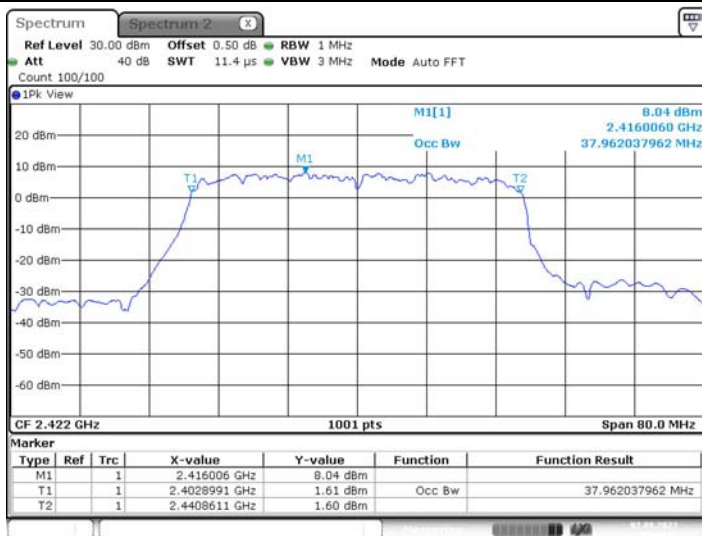
802.11ax(HE20)_2462



Date: 2.AUG.2023 10:41:27



802.11ax(HE40)_2422



Date: 2.AUG.2023 10:44:37

802.11ax(HE40)_2437



Date: 2.AUG.2023 10:51:22

802.11ax(HE40)_2452



Date: 2.AUG.2023 10:56:06

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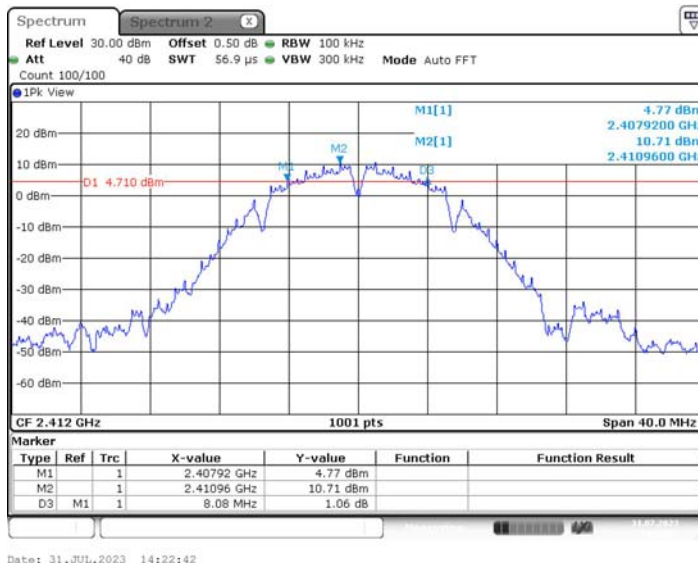
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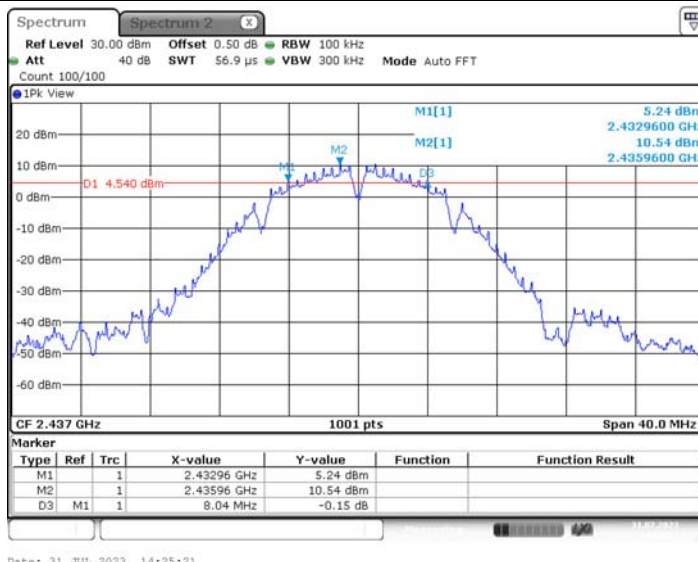
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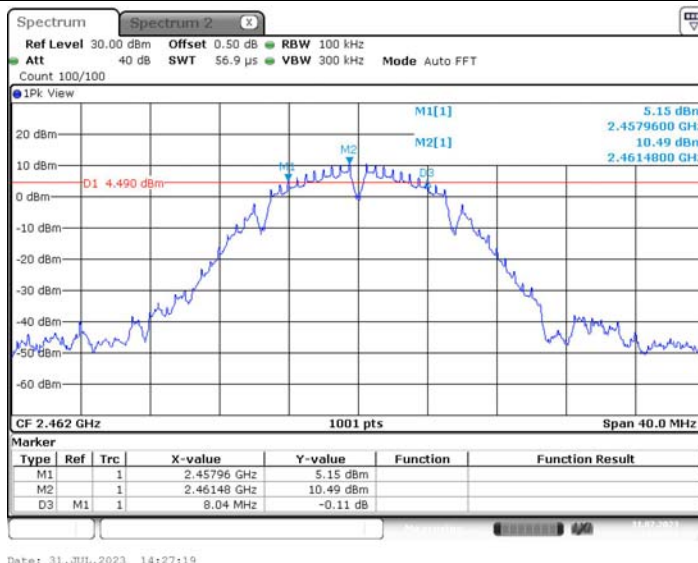
802.11b_2412



802.11b_2437



802.11b_2462



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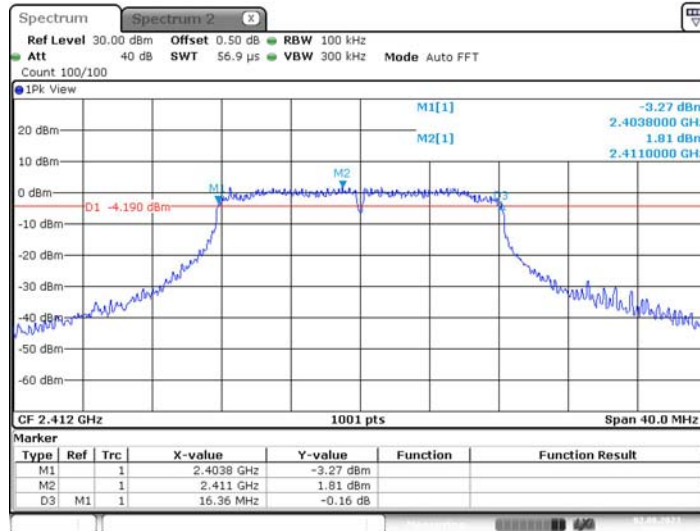
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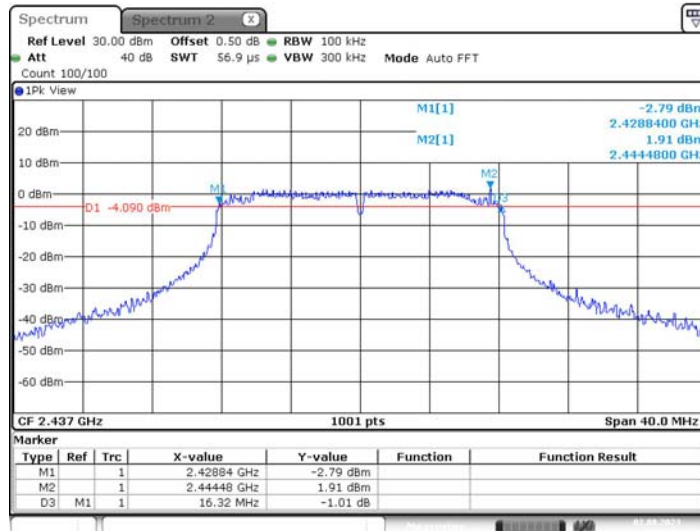


802.11g_2412



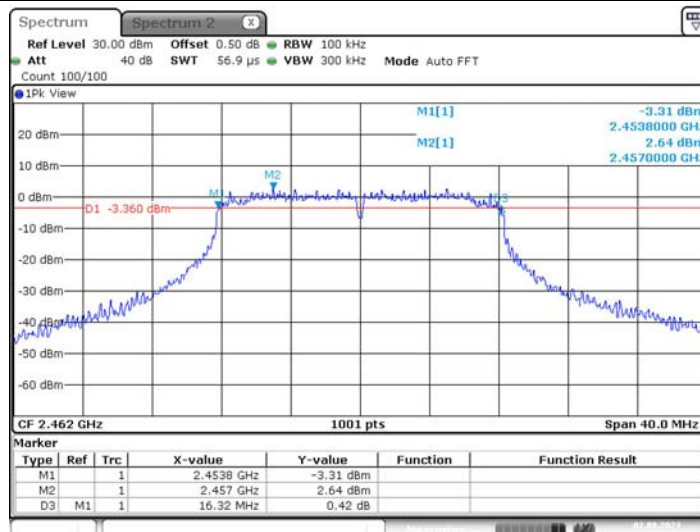
Date: 2.AUG.2023 09:56:18

802.11g_2437



Date: 2.AUG.2023 10:02:46

802.11g_2462



Date: 2.AUG.2023 10:08:02

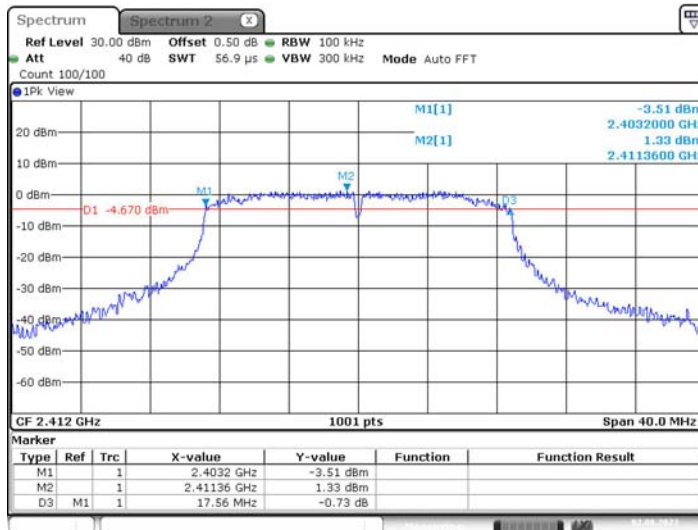
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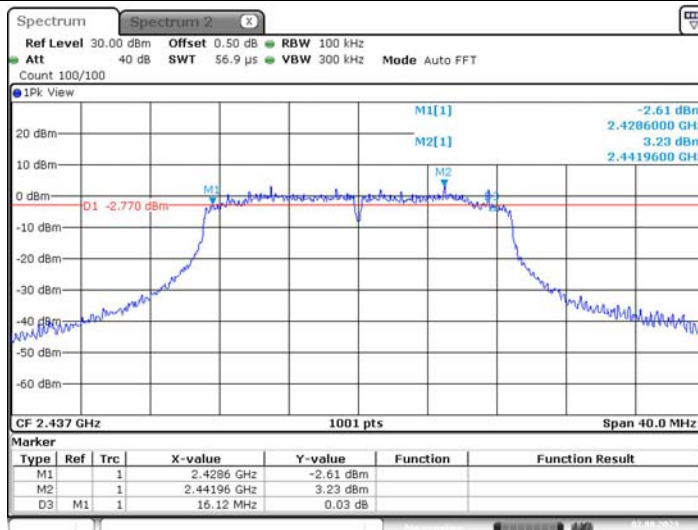
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802.11n(HT20)_2412



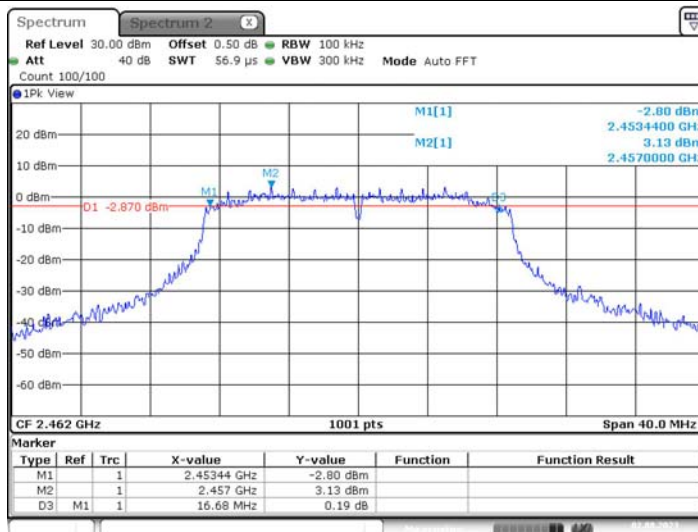
Date: 2.AUG.2023 10:11:14

802.11n(HT20)_2437



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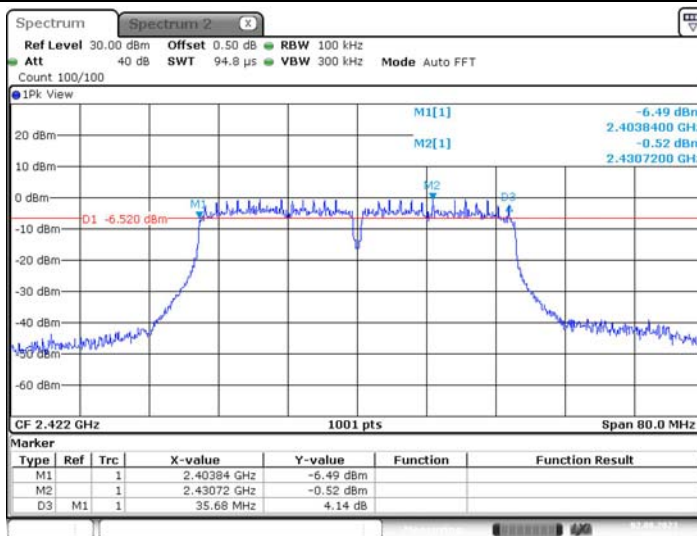
802.11n(HT20)_2462



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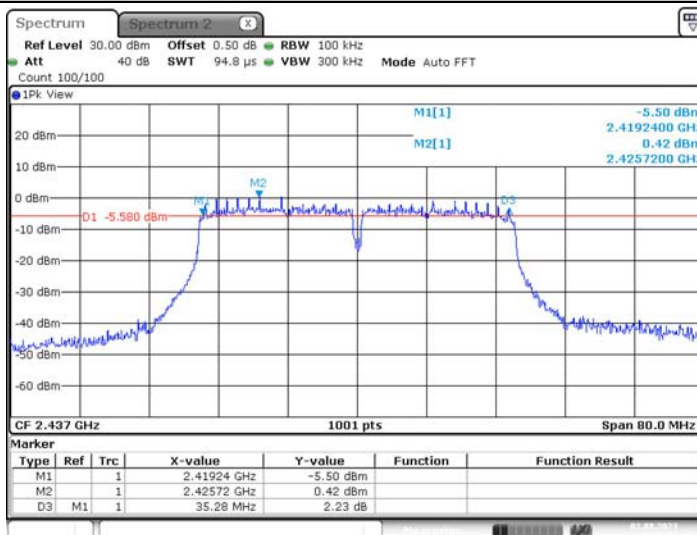


802.11n(HT40)_2422



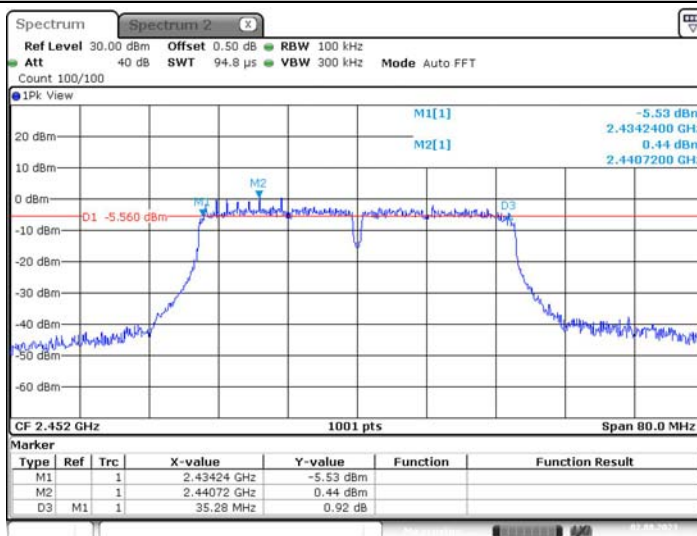
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802.11n(HT40)_2437



Date: 2.AUG.2023 10:27:21

802.11n(HT40)_2452



Date: 2.AUG.2023 10:30:06

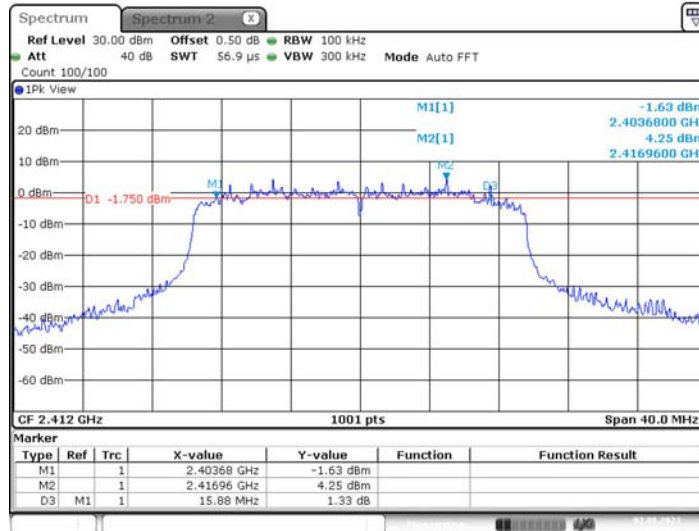
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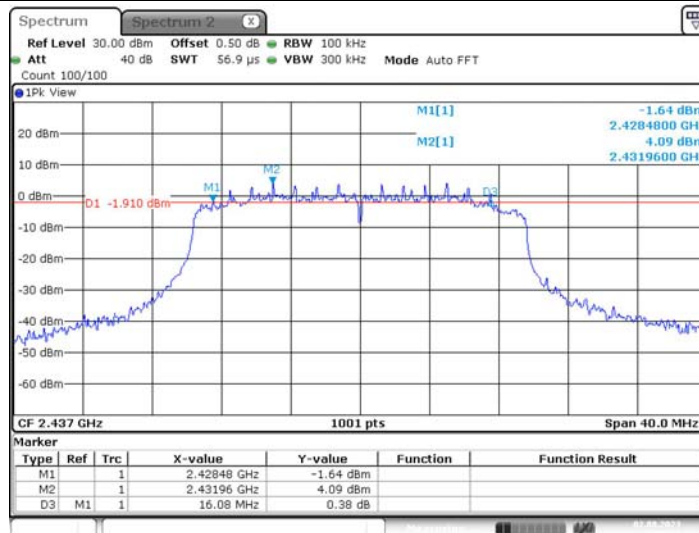
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802.11ax(HE20)_2412



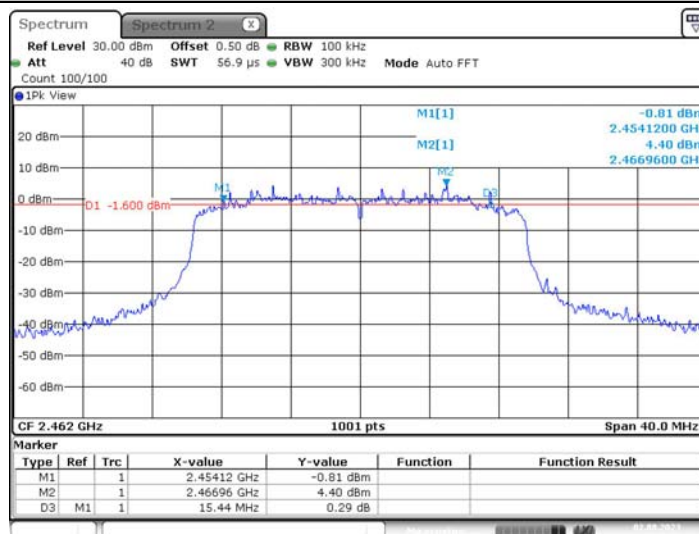
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802.11ax(HE20)_2437



Date: 2.AUG.2023 10:35:25

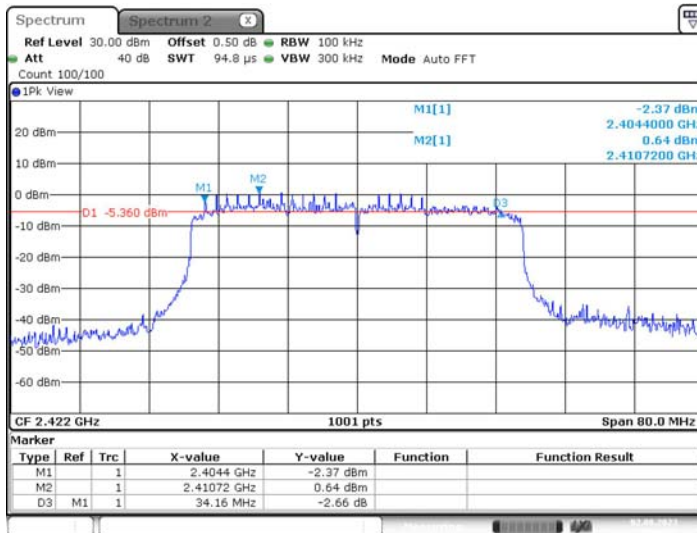
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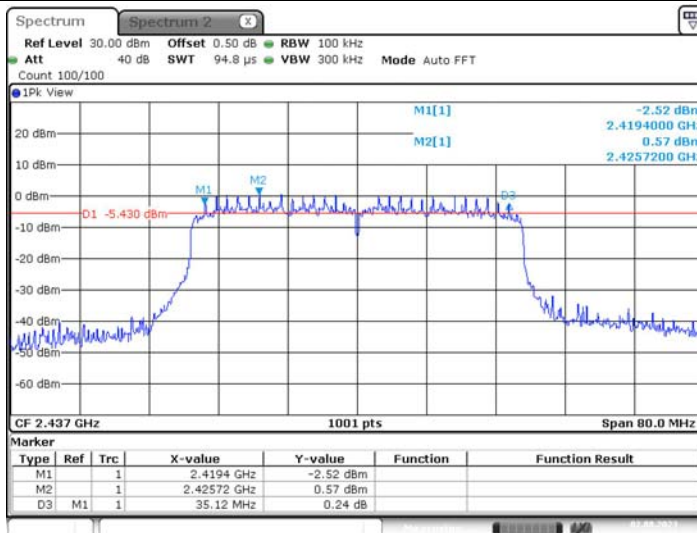


802.11ax(HE40)_2422



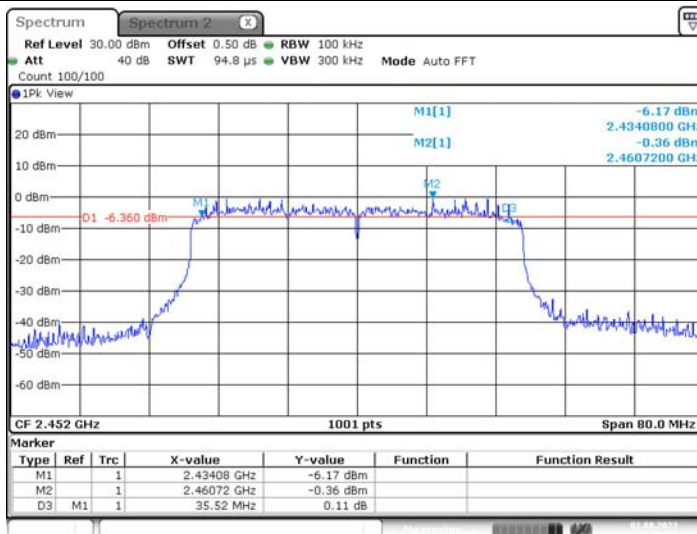
Date: 2.AUG.2023 10:44:25

802.11ax(HE40)_2437



Date: 2.AUG.2023 10:51:10

802.11ax(HE40)_2452



Date: 2.AUG.2023 10:55:54

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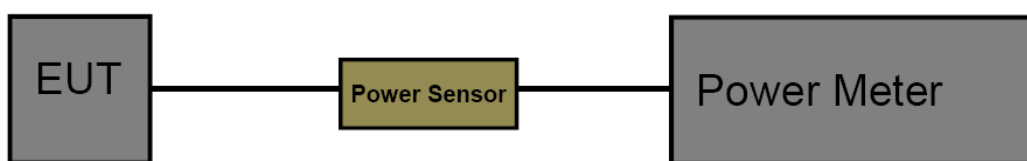
3.6. Maximum Conducted Output Power

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (b)(3)/ RSS-247 5.4:

Section	Test Item	Limit	Frequency Range(MHz)
CFR 47 FCC 15.247(b)(3)	Maximum conducted output power	1 Watt or 30dBm	2400~2483.5
ISED RSS-247 5.4 d	EIRP	4 Watt or 36dBm	2400~2483.5

Test Configuration



Test Procedure

1. The maximum conducted output power may be measured using a broadband RF power meter.
2. Power measurements were performed only when the EUT was transmitting at its AVG power control level using a broadband power meter with a pulse sensor.
3. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter.
4. Record the measurement data.

Test Mode

Please refer to the clause 2.4.

Test Result



Test Mode	Channel	Result Avg [dBm]	Limit [dBm]	Verdict
802.11b	2412	17.35	<=30	PASS
	2437	16.89	<=30	PASS
	2462	16.52	<=30	PASS
802.11g	2412	11.44	<=30	PASS
	2437	13.04	<=30	PASS
	2462	13.43	<=30	PASS
802.11n(HT20)	2412	13.14	<=30	PASS
	2437	12.93	<=30	PASS
	2462	13.33	<=30	PASS
802.11n(HT40)	2422	12.33	<=30	PASS
	2437	12.20	<=30	PASS
	2452	12.05	<=30	PASS
802.11ax(HE20)	2412	13.01	<=30	PASS
	2437	12.65	<=30	PASS
	2462	13.02	<=30	PASS
802.11ax(HE40)	2422	12.03	<=30	PASS
	2437	12.04	<=30	PASS
	2452	11.95	<=30	PASS

Note: Test results increased RF cable loss by 0.5dB and Duty Cycle Factor.



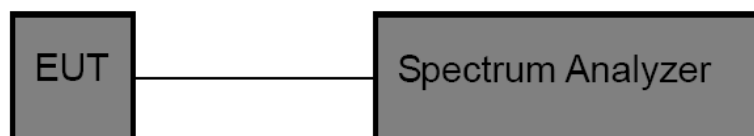
3.7. Power Spectral Density

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (e)/ RSS-247 5.2 b:

Test Item	Limit	Frequency Range(MHz)
Power Spectral Density	8dBm(in any 3 kHz)	2400~2483.5

Test Configuration



Test Procedure

1. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
2. The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above. The measurement according to section 10.2 of KDB 558074 D01 DTS Meas Guidance v05r02.
3. Spectrum Setting:
Set analyzer center frequency to DTS channel center frequency.
Set the span to 1.5 times the DTS bandwidth.
Set the RBW to: 3 kHz
Set the VBW to: 10 kHz
Detector: PK
Sweep time: Auto
Allow trace to fully stabilize. Then use the peak marker function to determine the maximum amplitude level.

Test Mode

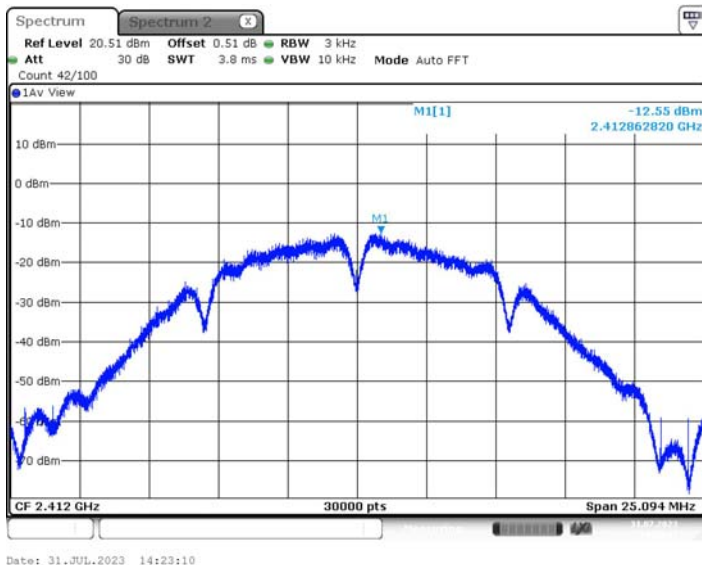
Please refer to the clause 2.4.

**Test Result**

Test Mode	Channel	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
802.11b	2412	-12.55	<=8	PASS
	2437	-12.80	<=8	PASS
	2462	-12.87	<=8	PASS
802.11g	2412	-18.34	<=8	PASS
	2437	-18.37	<=8	PASS
	2462	-18.78	<=8	PASS
802.11n(HT20)	2412	-19.01	<=8	PASS
	2437	-19.16	<=8	PASS
	2462	-19.03	<=8	PASS
802.11n(HT40)	2422	-21.44	<=8	PASS
	2437	-21.70	<=8	PASS
	2452	-21.46	<=8	PASS
802.11ax(HE20)	2412	-17.66	<=8	PASS
	2437	-19.44	<=8	PASS
	2462	-19.13	<=8	PASS
802.11ax(HE40)	2422	-21.44	<=8	PASS
	2437	-22.56	<=8	PASS
	2452	-21.00	<=8	PASS



802.11b_2412



802.11b_2437



802.11b_2462



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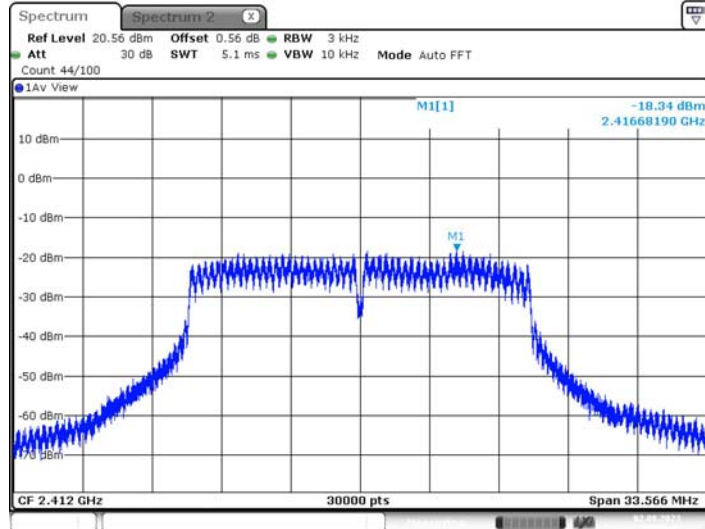
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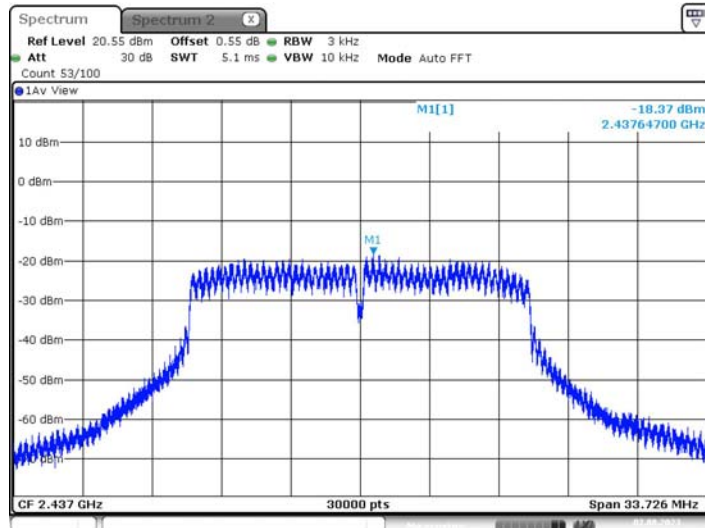


802.11g_2412



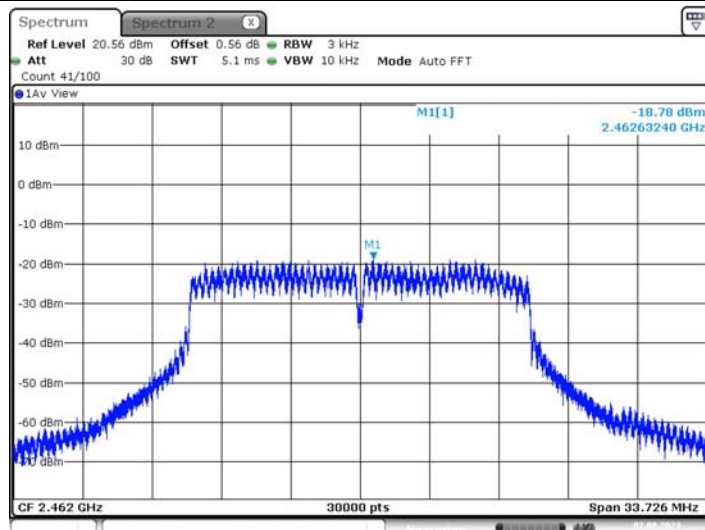
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Date: 2.AUG.2023 10:03:12

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Date: 2.AUG.2023 10:08:28

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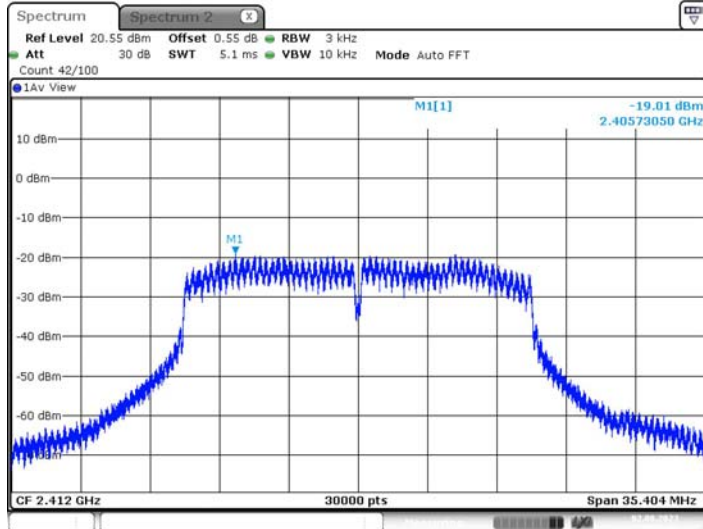
1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China
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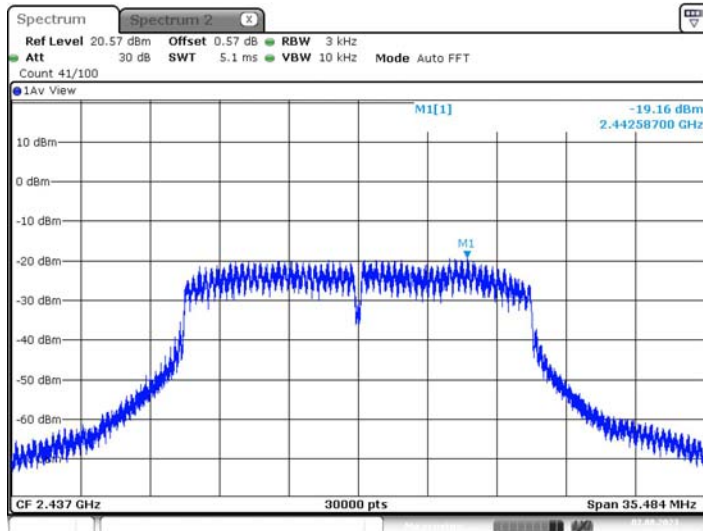


802.11n(HT20)_2412



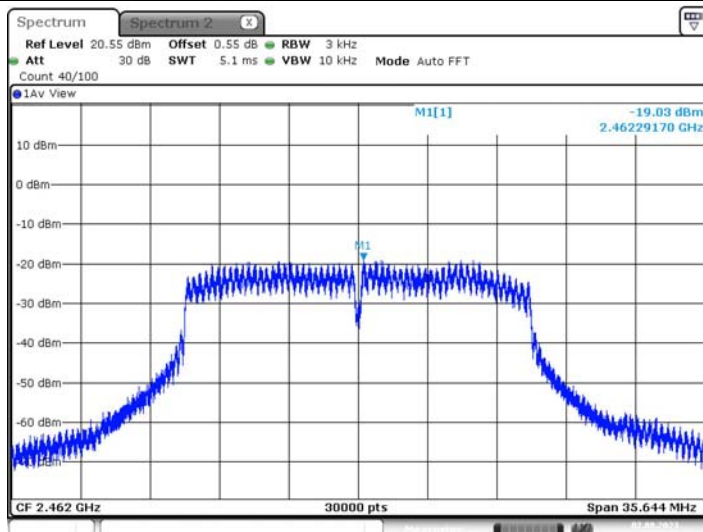
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802.11n(HT20)_2437



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802.11n(HT20)_2462



Date: 2.AUG.2023 10:20:30

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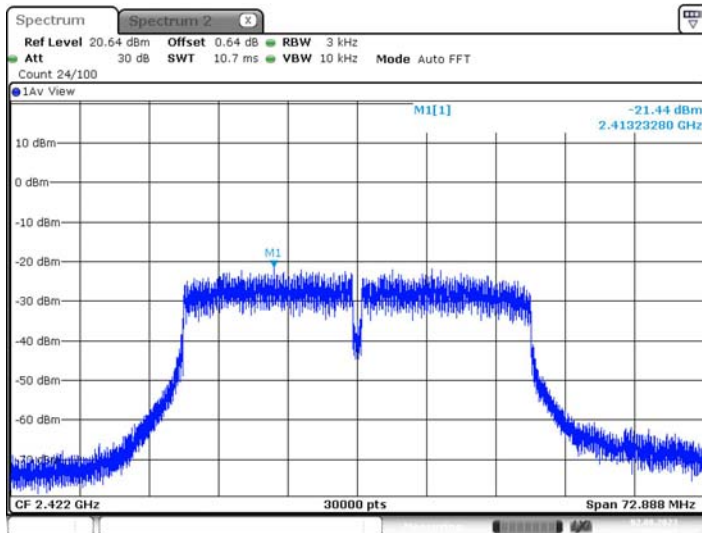
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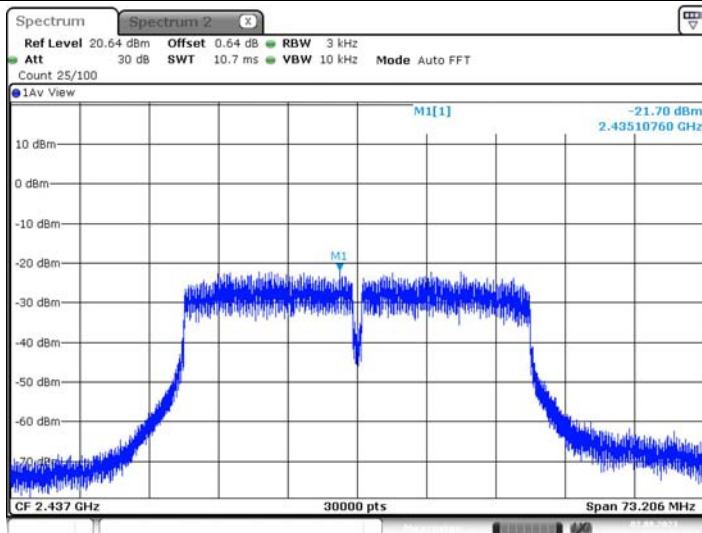


802.11n(HT40)_2422



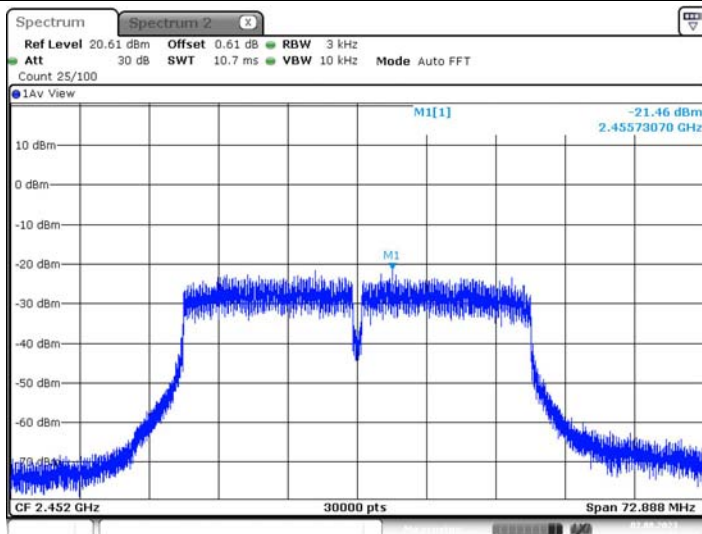
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802.11n(HT40)_2437



Date: 2.AUG.2023 10:27:47

802.11n(HT40)_2452



Date: 2.AUG.2023 10:30:32

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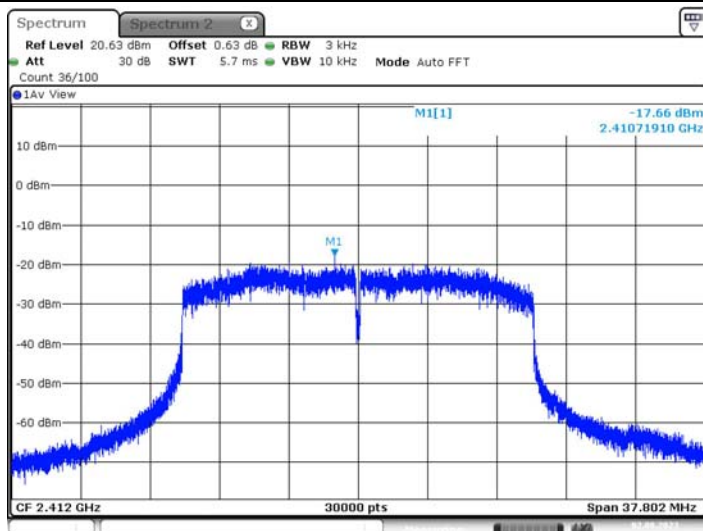
1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China
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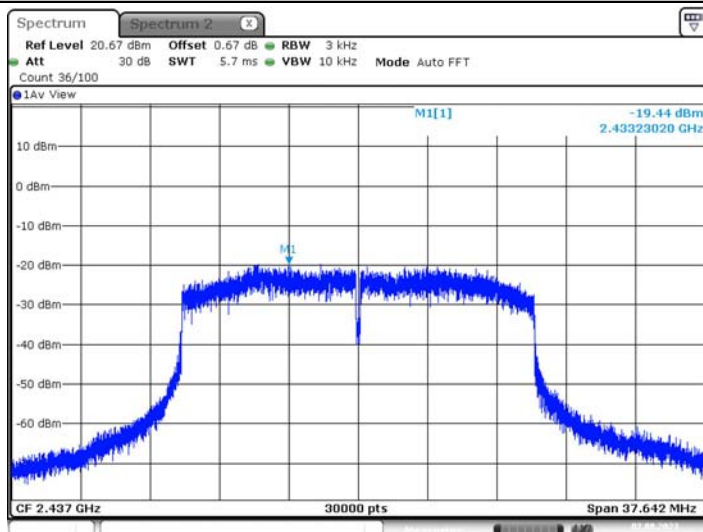


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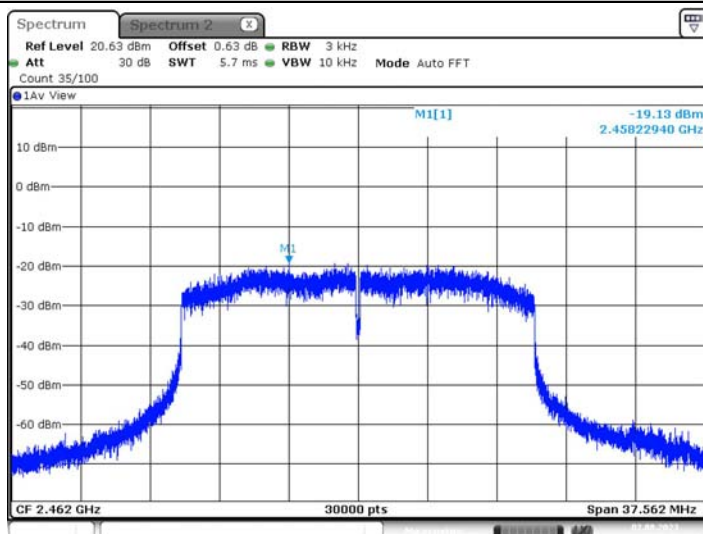
Date: 2.AUG.2023 10:33:35

802.11ax(HE20)_2437



Date: 2.AUG.2023 10:35:51

802.11ax(HE20)_2462



Date: 2.AUG.2023 10:41:41

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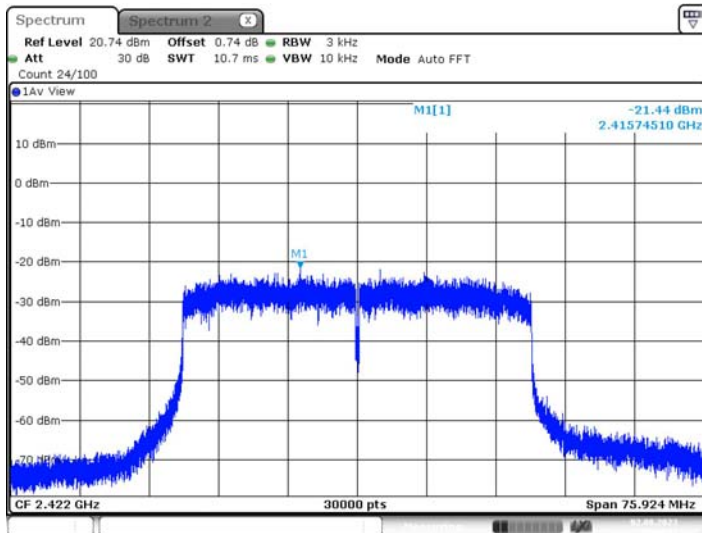
Http://www.sz-ctc.org.cn



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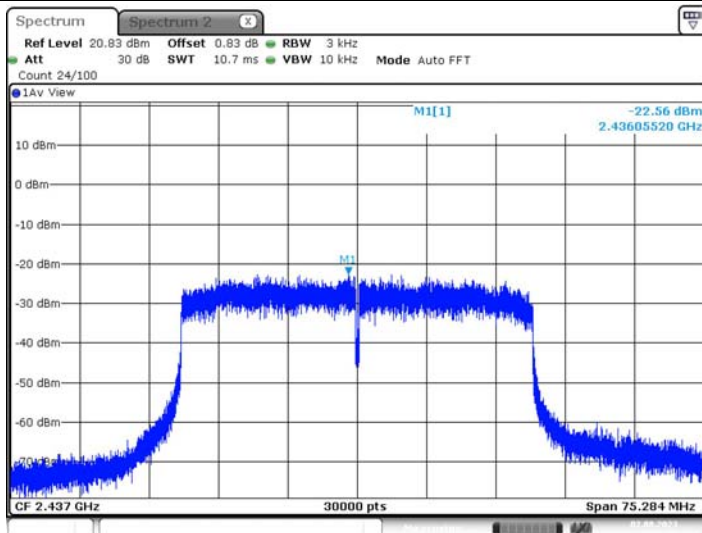


802.11ax(HE40)_2422



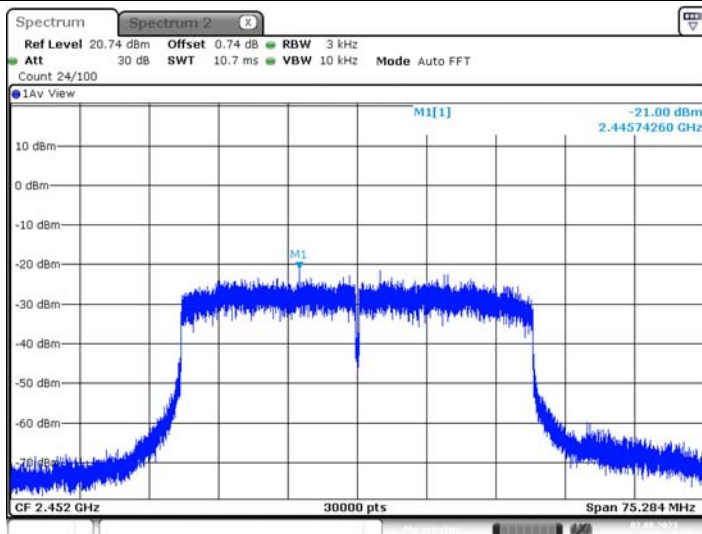
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802.11ax(HE40)_2437



Date: 2.AUG.2023 10:51:36

802.11ax(HE40)_2452



Date: 2.AUG.2023 10:56:20

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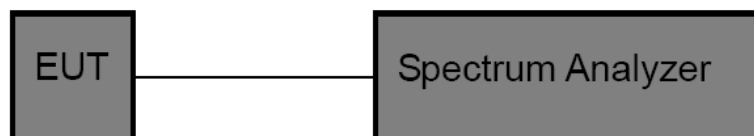
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3.8. Duty Cycle

Limit

None, for report purposes only.

Test Configuration



Test Procedure

1. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
2. The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above. The measurement according to section 10.2 of KDB 558074 D01 DTS Meas Guidance v05r02.
3. Spectrum Setting:
Set analyzer center frequency to DTS channel center frequency.
Set the span to 0Hz
Set the RBW to 8MHz
Set the VBW to 8MHz
Detector: peak
Sweep time: auto
Allow trace to fully stabilize. Then use the peak marker function to determine the maximum amplitude level.

Test Mode

Please refer to the clause 2.4.

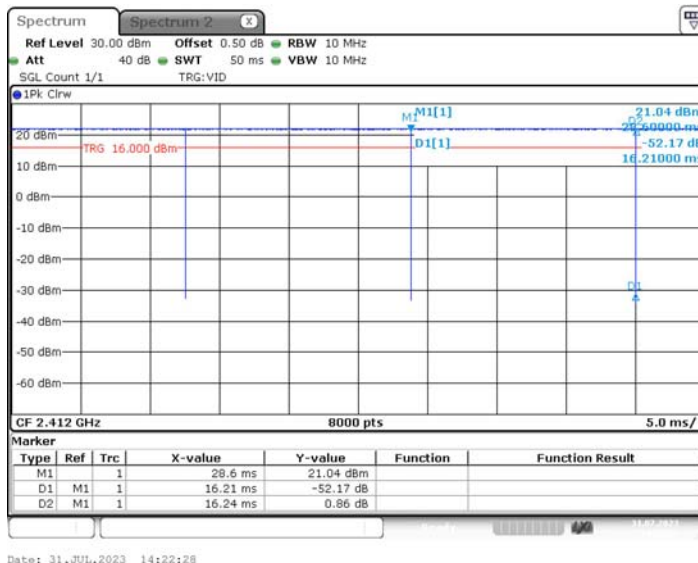
**Test Result**

Test Mode	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty Cycle Factor	1/T Minimum VBW (kHz)	Final setting For VBW (kHz)
802.11b	2412	16.21	16.24	99.82	0.01	0.062	1
	2437	16.21	16.24	99.82	0.01	0.062	1
	2462	16.21	16.24	99.82	0.01	0.062	1
802.11g	2412	2.68	2.72	98.53	0.06	0.373	1
	2437	2.68	2.71	98.89	0.05	0.373	1
	2462	2.68	2.72	98.53	0.06	0.373	1
802.11n(HT20)	2412	2.49	2.52	98.81	0.05	0.402	1
	2437	2.49	2.53	98.42	0.07	0.402	1
	2462	2.49	2.52	98.81	0.05	0.402	1
802.11n(HT40)	2422	1.22	1.26	96.83	0.14	0.820	1
	2437	1.22	1.26	96.83	0.14	0.820	1
	2452	1.22	1.25	97.60	0.11	0.820	1
802.11ax(HE20)	2412	0.99	1.02	97.06	0.13	1.010	2
	2437	0.98	1.02	96.08	0.17	1.020	2
	2462	0.99	1.02	97.06	0.13	1.010	2
802.11ax(HE40)	2422	0.52	0.55	94.55	0.24	1.923	2
	2437	0.51	0.55	92.73	0.33	1.961	2
	2452	0.52	0.55	94.55	0.24	1.923	2

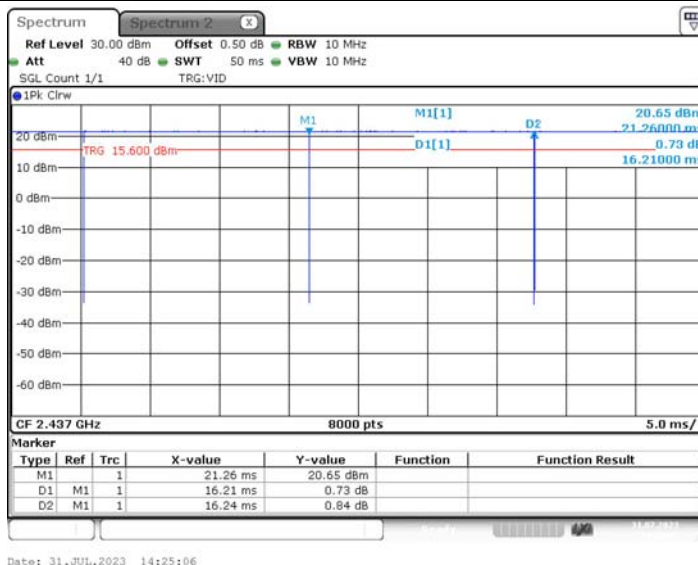
Note: Duty Cycle Factor = $10 \cdot \log_{10}(1/\text{Duty Cycle})$



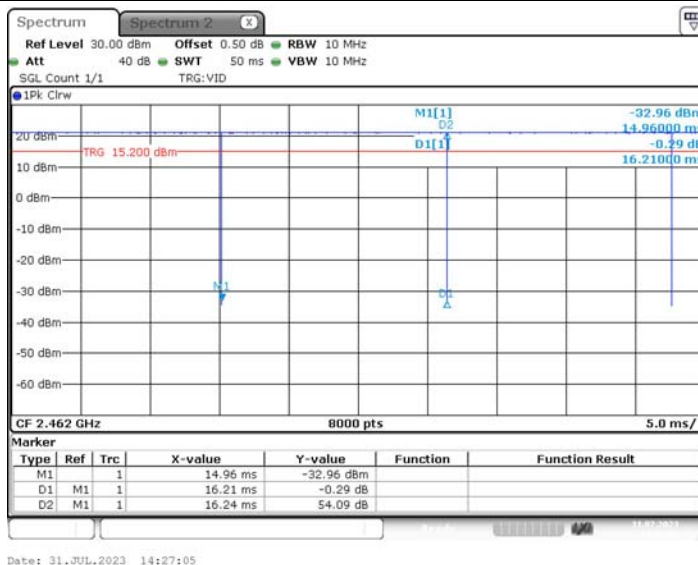
802.11b_2412



802.11b_2437



802.11b_2462



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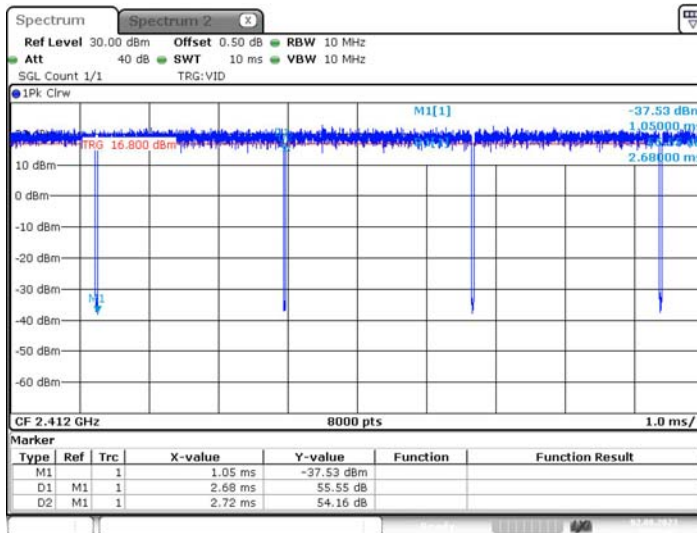
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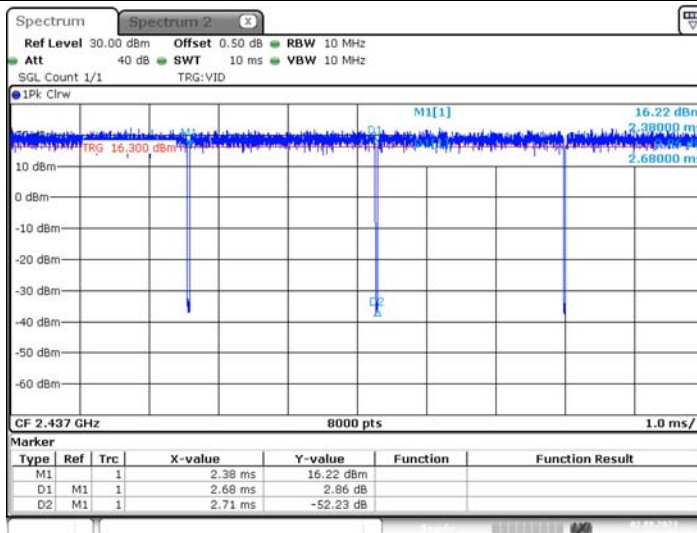


802.11g_2412



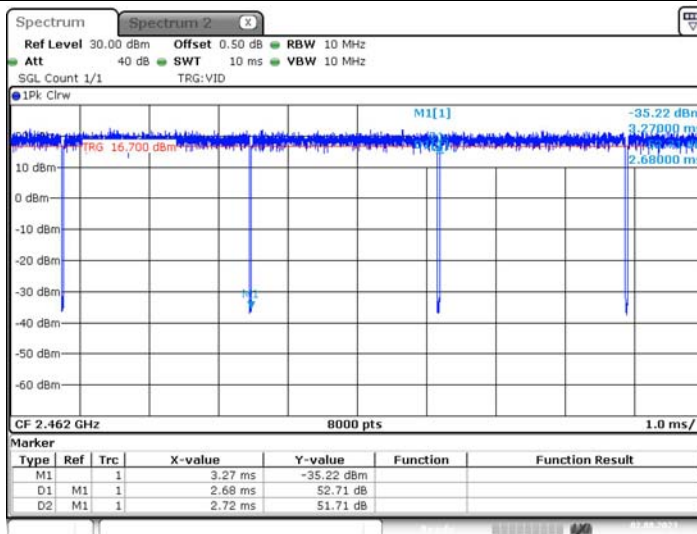
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802.11g_2437



Date: 2.AUG.2023 10:02:32

802.11g_2462



Date: 2.AUG.2023 10:06:49

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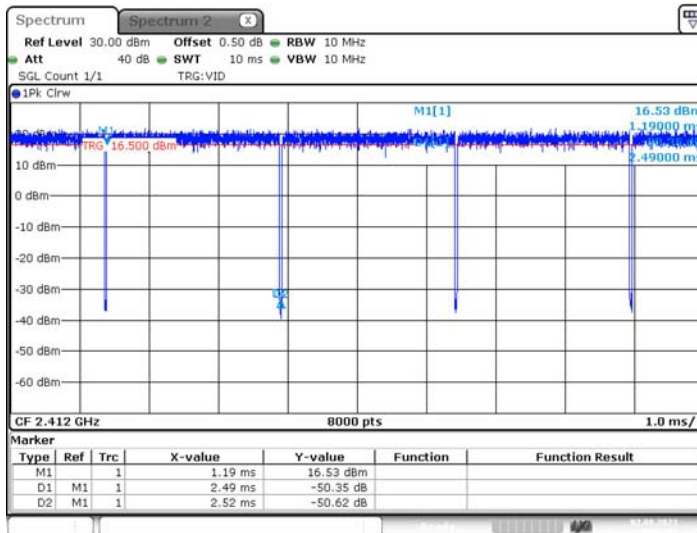
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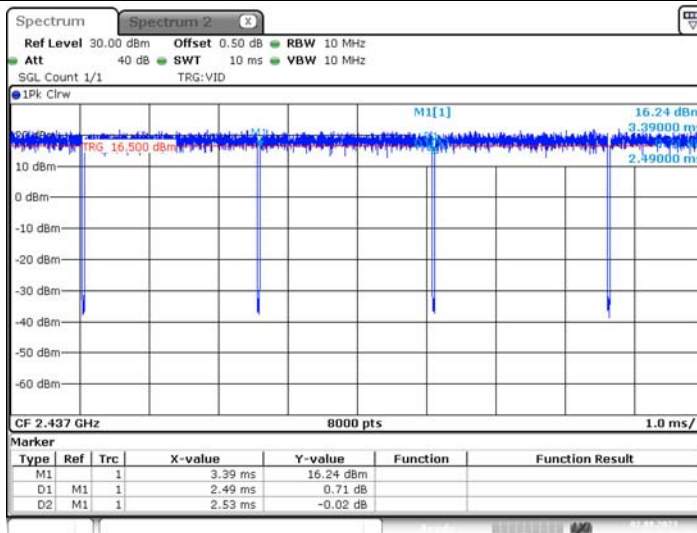


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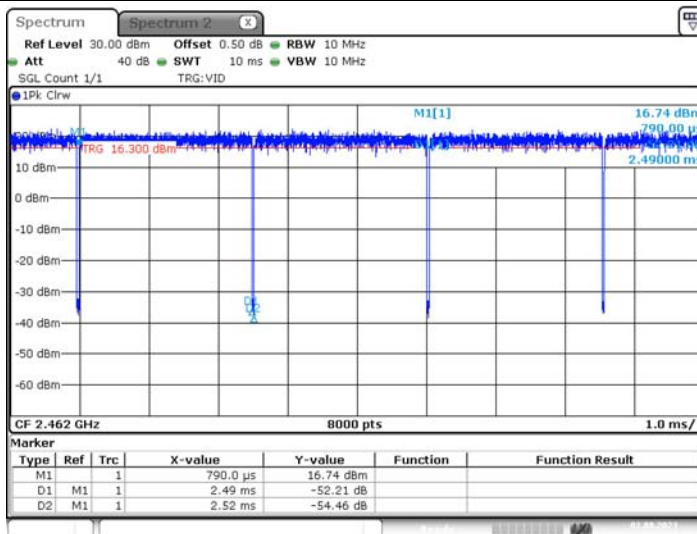
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802.11n(HT20)_2437



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802.11n(HT20)_2462

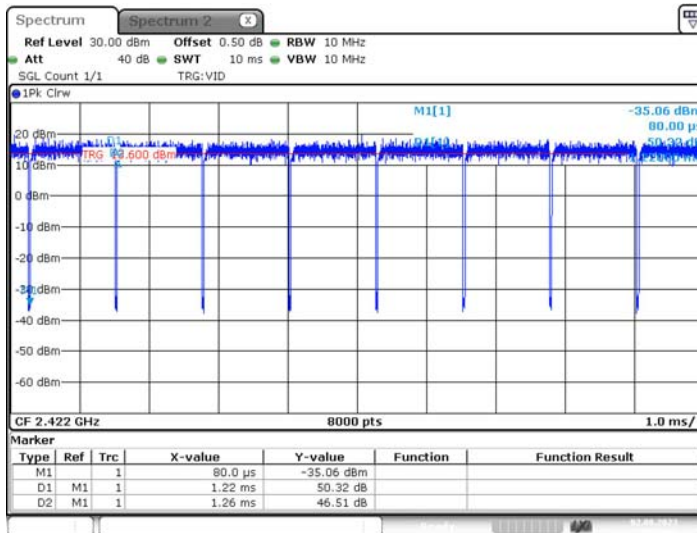


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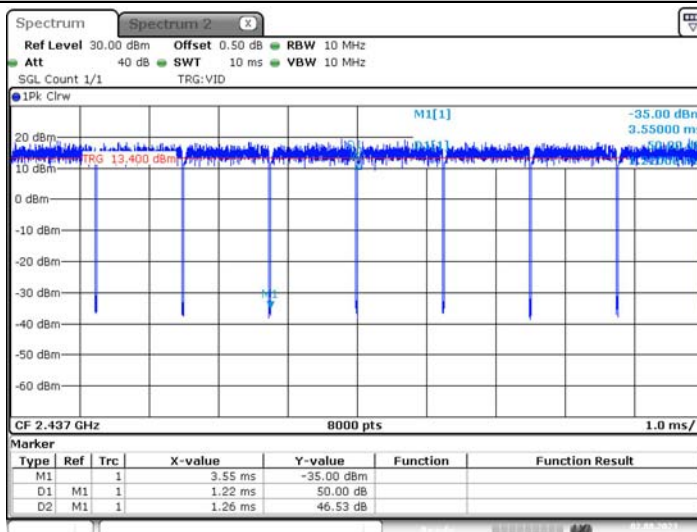


802.11n(HT40)_2422



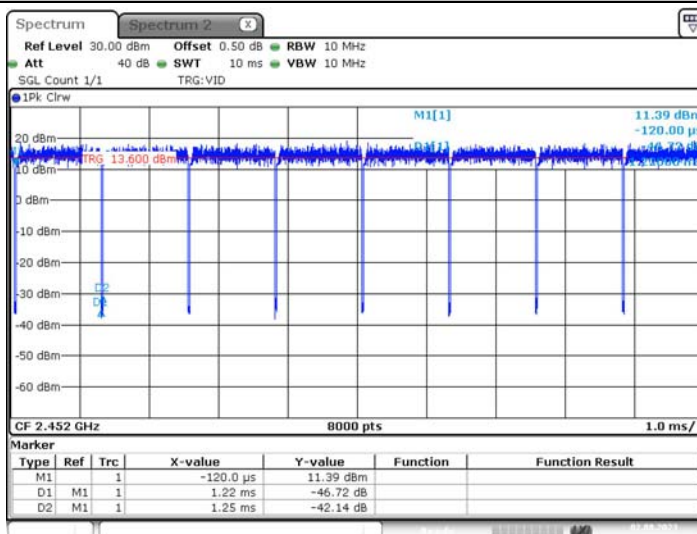
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802.11n(HT40)_2437



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802.11n(HT40)_2452

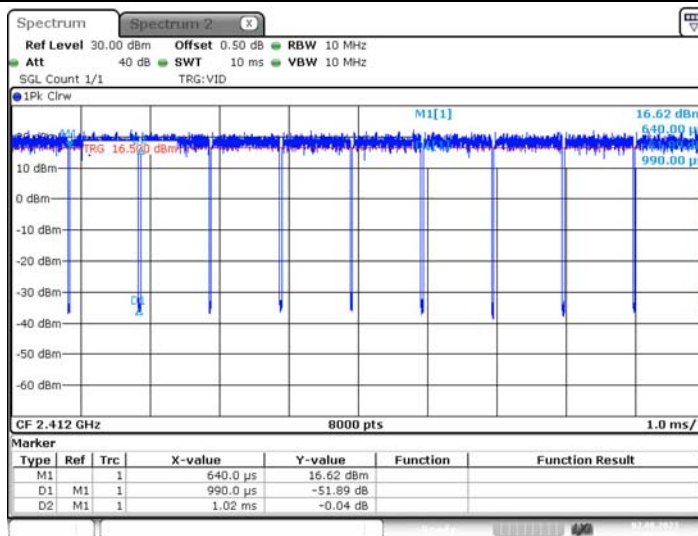


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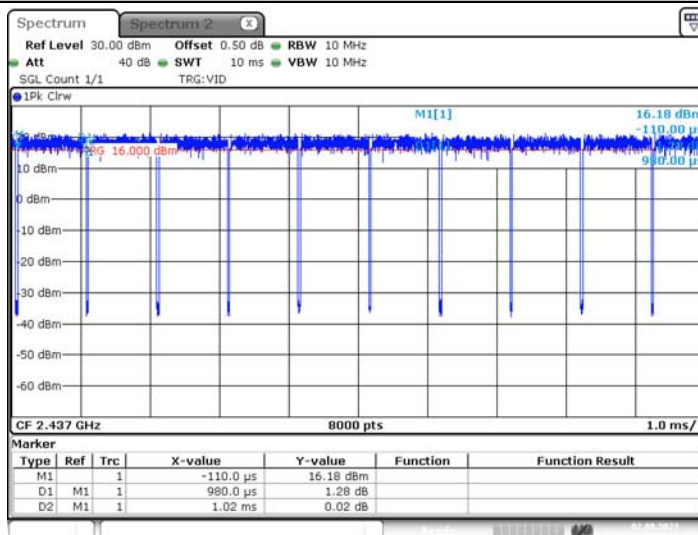


802.11ax(HE20)_2412



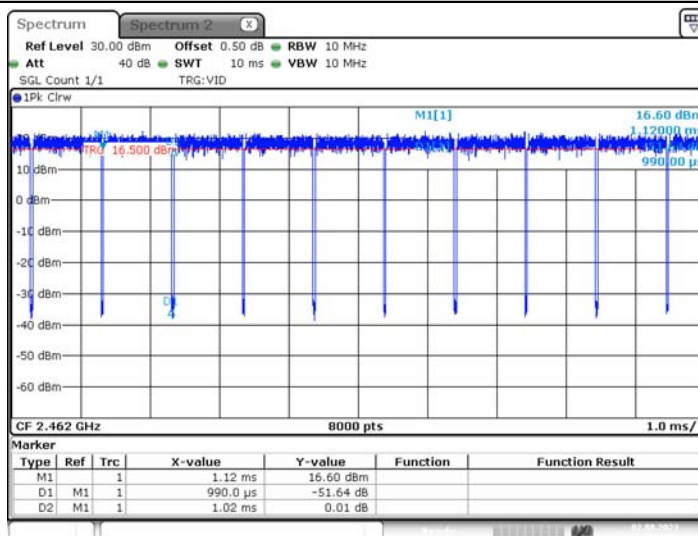
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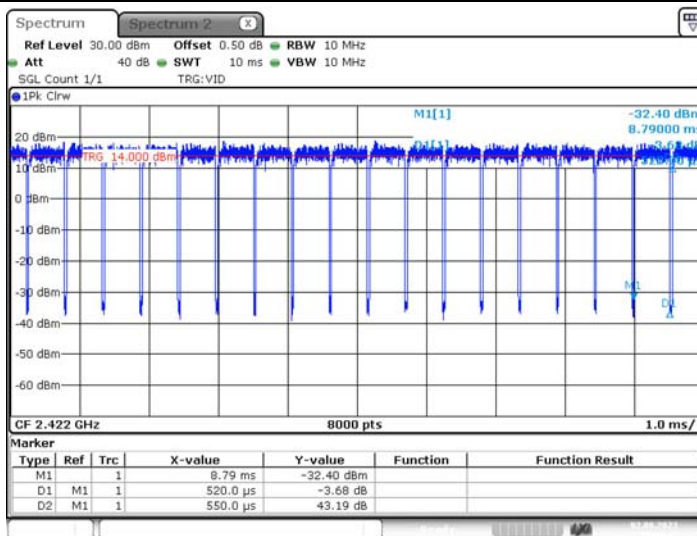
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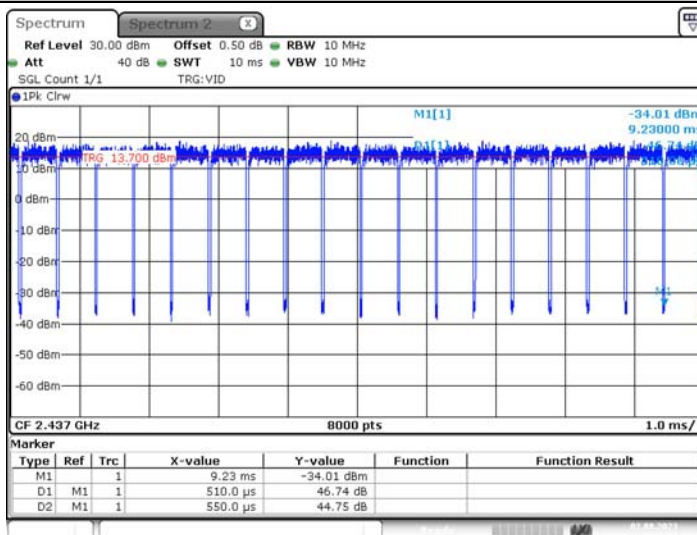


802.11ax(HE40)_2422



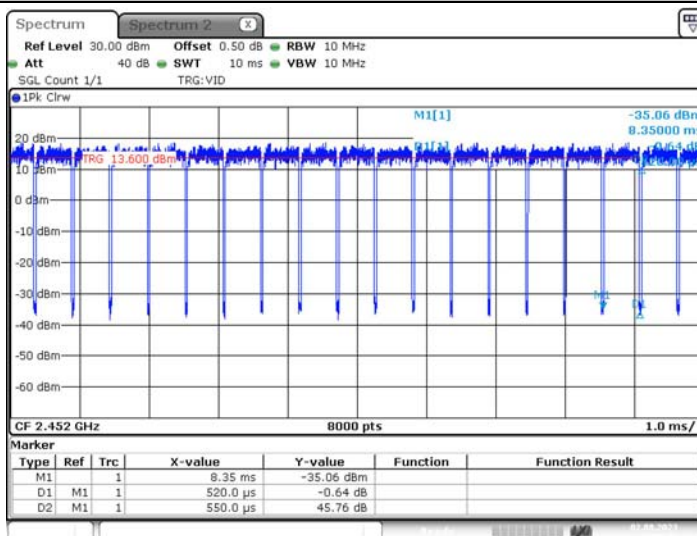
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802.11ax(HE40)_2437



Date: 2.AUG.2023 10:49:08

802.11ax(HE40)_2452



Date: 2.AUG.2023 10:55:41

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3.9. Antenna requirement

Requirement

FCC CFR Title 47 Part 15 Subpart C Section 15.203:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

FCC CFR Title 47 Part 15 Subpart C Section 15.247(c) (1)(i):

(i) Systems operating in the 2400~2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

Test Result

The directional gain of the antenna less than 6dBi, please refer to the EUT internal photographs antenna photo.

*****THE END*****