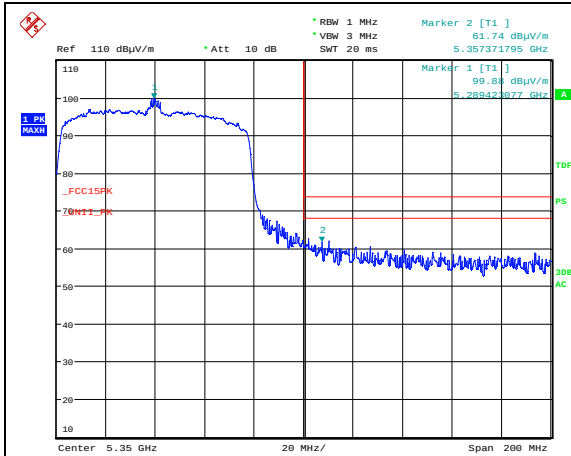
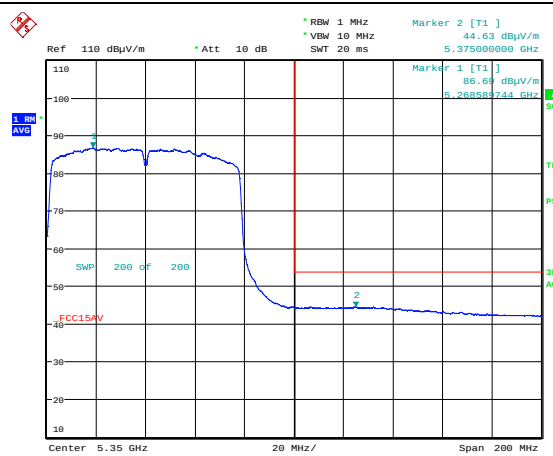




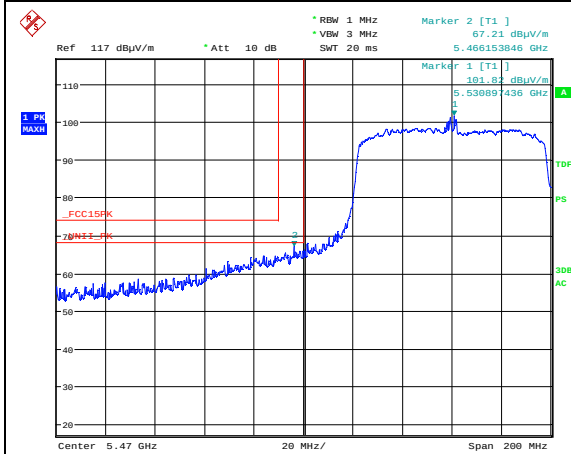
Date: 13.JUL.2023 12:05:08

Band Edge 5350 MHz, ch058, 802.11ac HT80 SISO, Radiated, Max, Pk PL9



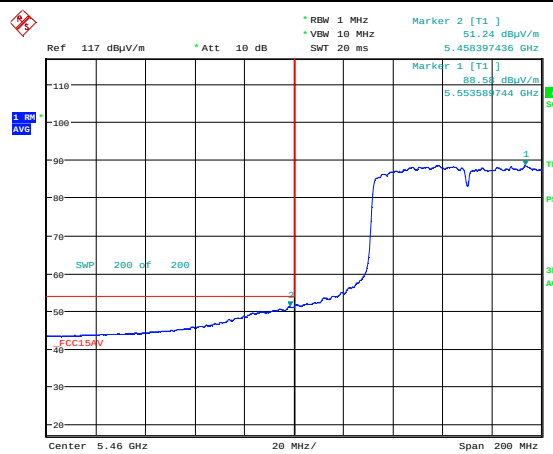
Date: 13.JUL.2023 12:05:50

Av



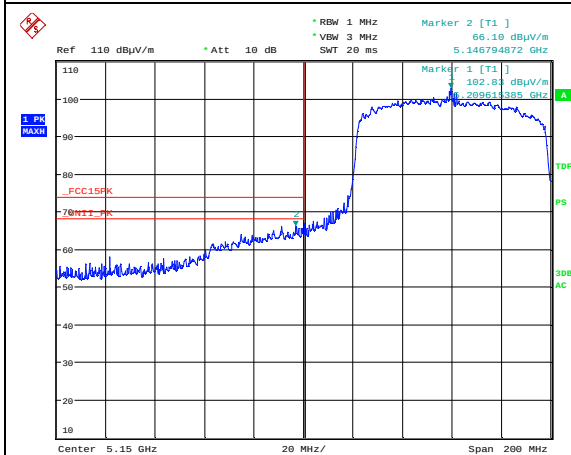
Date: 13.JUL.2023 12:02:51

Band Edge 5470 MHz, ch106, 802.11ac HT80 SISO, Radiated, Max, Pk PL9



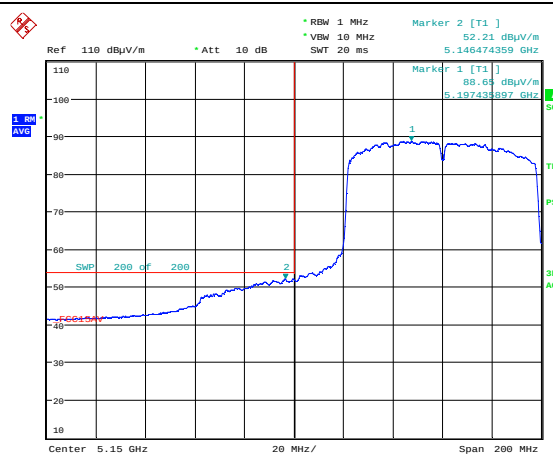
Date: 13.JUL.2023 12:03:32

Av



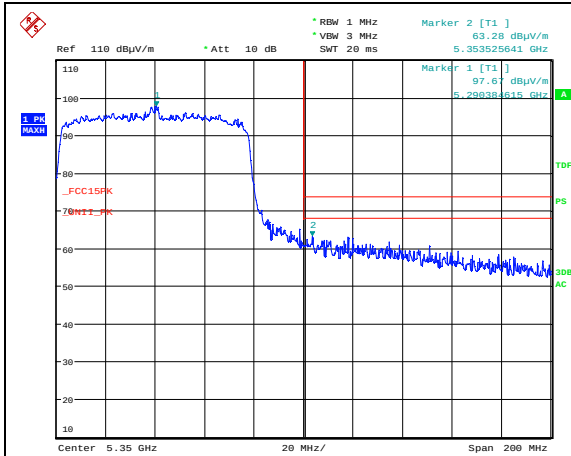
Date: 12.JUL.2023 16:36:53

Band Edge 5150 MHz, ch042, 802.11ac HT80 MIMO, Radiated, Max, Pk



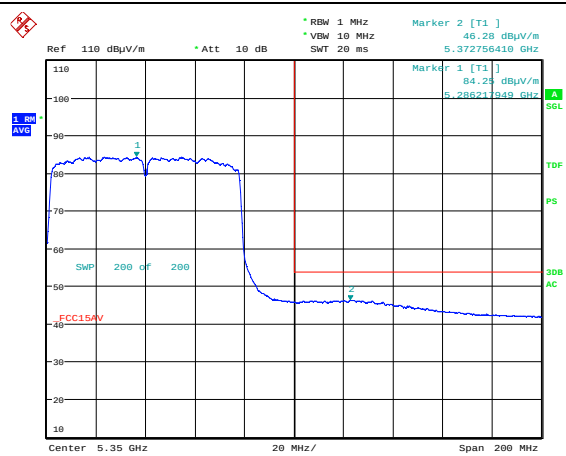
Date: 12.JUL.2023 16:37:35

Av



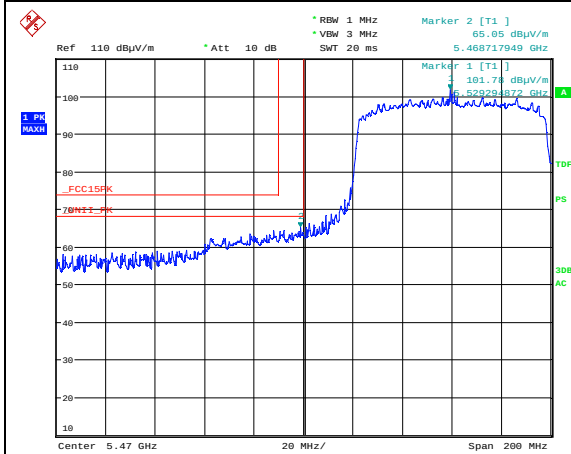
Date: 12.JUL.2023 16:33:10

Band Edge 5350 MHz, ch058, 802.11ac HT80 MIMO, Radiated, Max, Pk



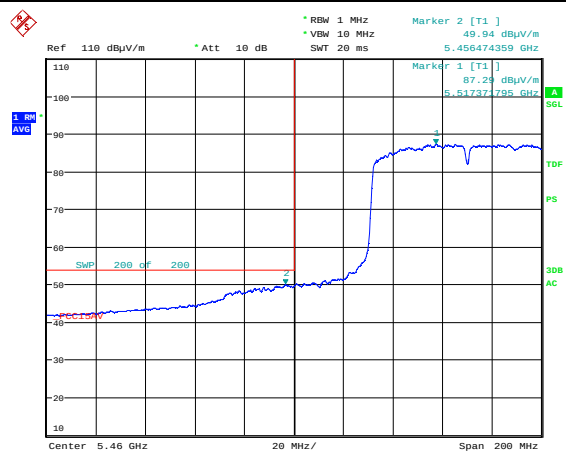
Date: 12.JUL.2023 16:33:52

Av



Date: 12.JUL.2023 16:30:33

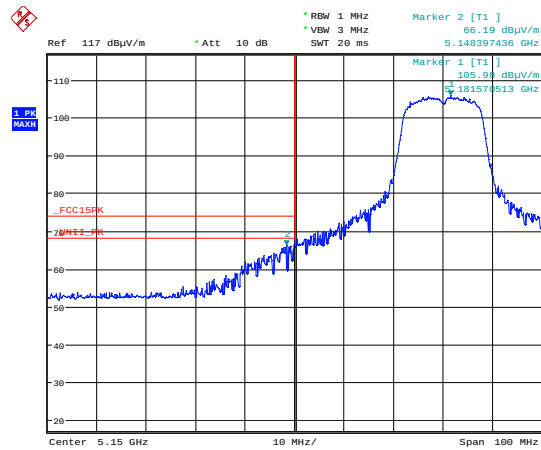
Band Edge 5470 MHz, ch106, 802.11ac HT80 MIMO, Radiated, Max, Pk



Date: 12.JUL.2023 16:31:15

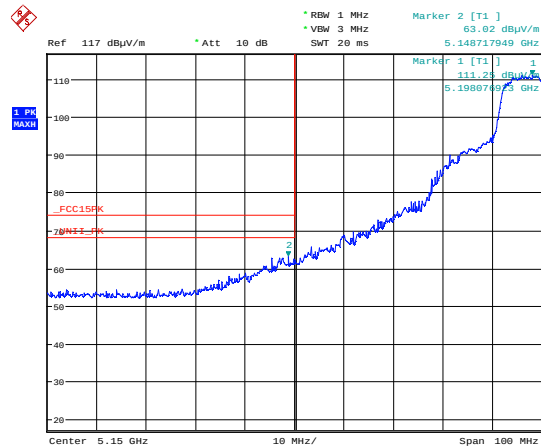
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Whip+Patch Antenna



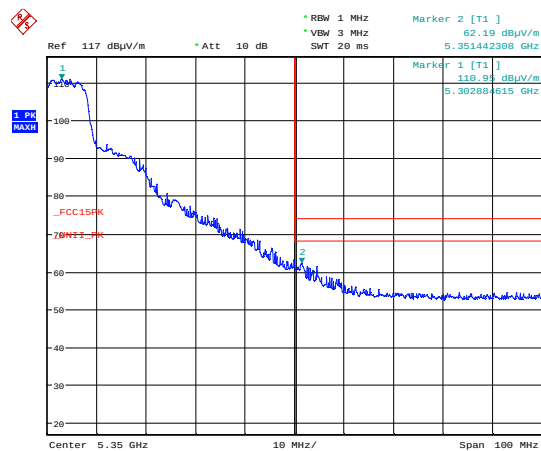
Date: 11.JUL.2023 14:52:06

Band Edge 5150 MHz, ch036, 802.11a 6Mb, Radiated, Max, Pk



Date: 11.JUL.2023 14:46:50

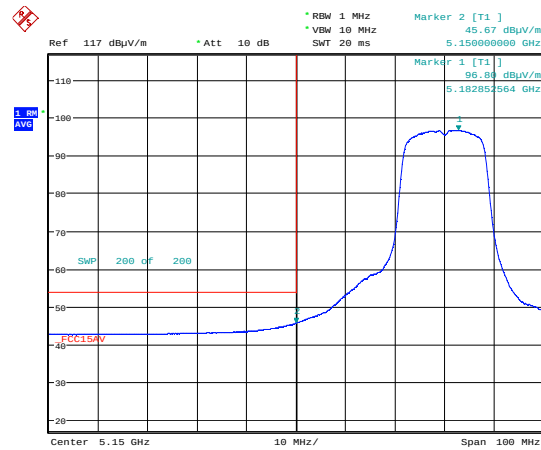
Band Edge 5150 MHz, ch040, 802.11a 6Mb, Radiated, Max, Pk



Date: 11.JUL.2023 14:37:35

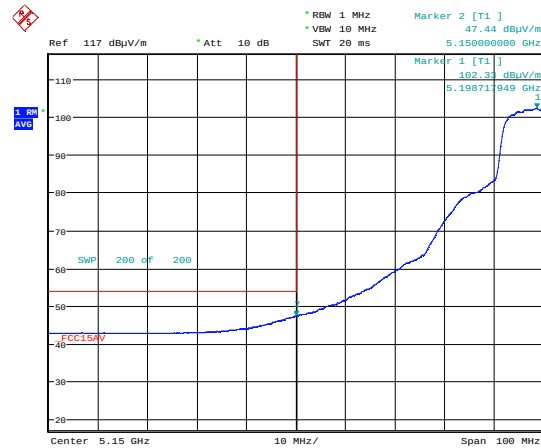
Band Edge 5350 MHz, ch060, 802.11a 6Mb, Radiated, Max, Pk

Date: 11.JUL.2023 14:38:18



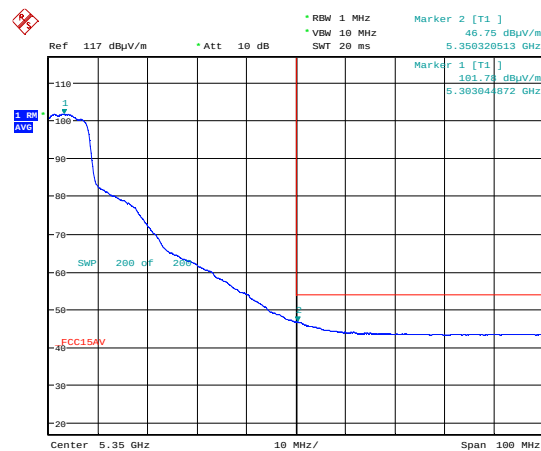
Date: 11.JUL.2023 14:52:37

Av



Date: 11.JUL.2023 14:47:13

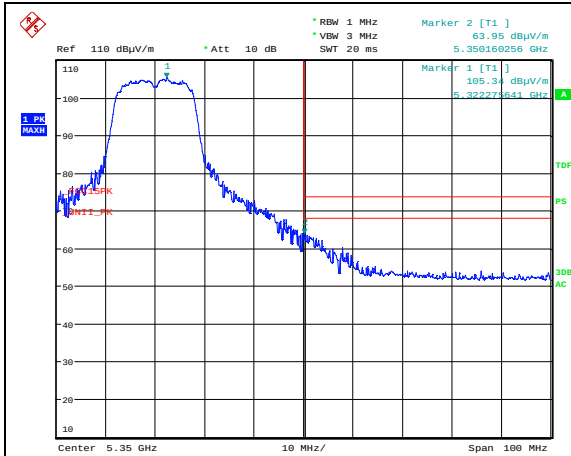
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Date: 11.JUL.2023 14:38:18

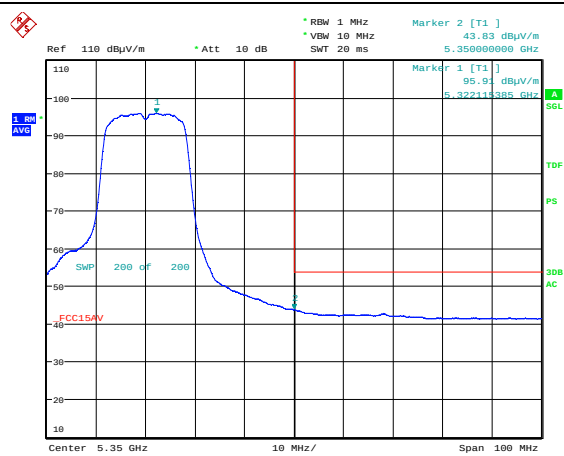
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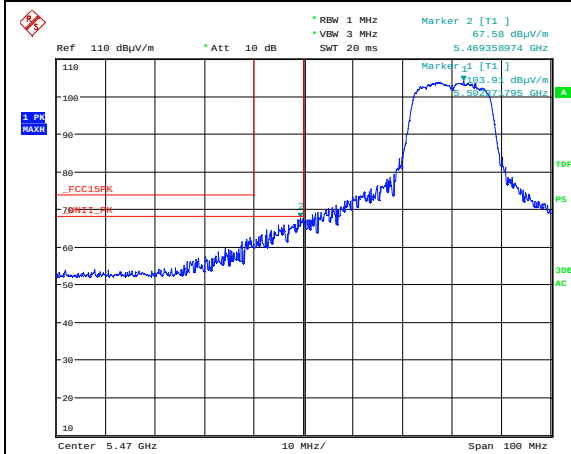
Date: 11.JUL.2023 14:54:26

Band Edge 5350 MHz, ch064, 802.11a 6Mb, Radiated, Max, Pk



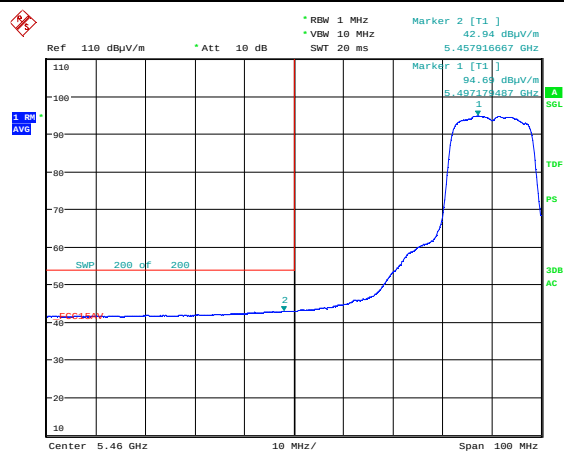
Date: 11.JUL.2023 14:54:49

Av



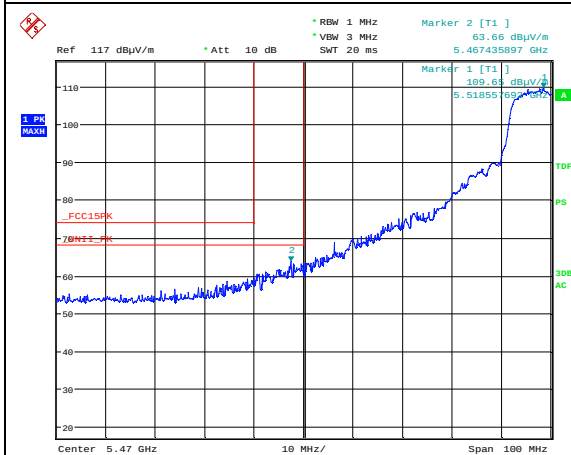
Date: 11.JUL.2023 14:59:26

Band Edge 5470 MHz, ch100, 802.11a 6Mb, Radiated, Max, Pk



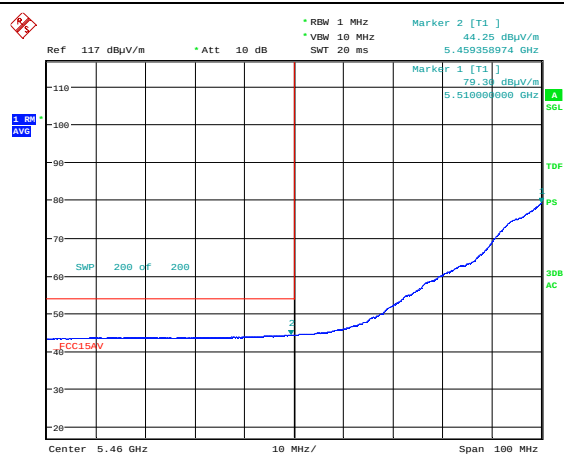
Date: 11.JUL.2023 14:59:48

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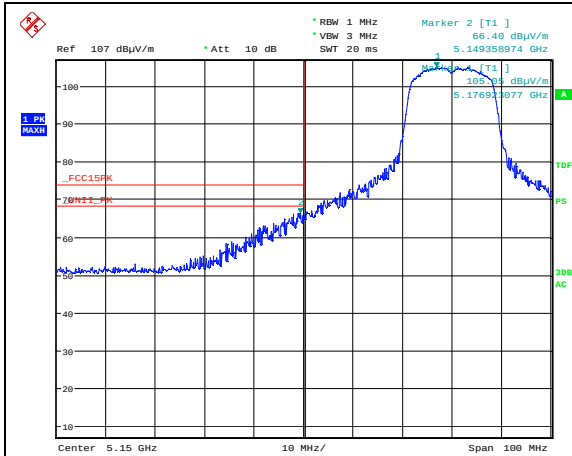
Date: 11.JUL.2023 13:56:55

Band Edge 5470 MHz, ch104, 802.11a 6Mb, Radiated, Max, Pk



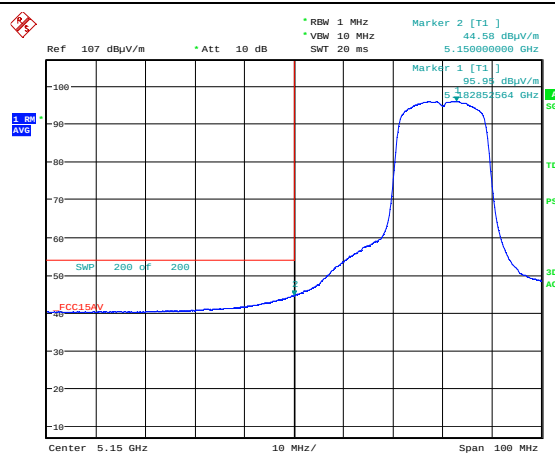
Date: 11.JUL.2023 13:57:28

Av



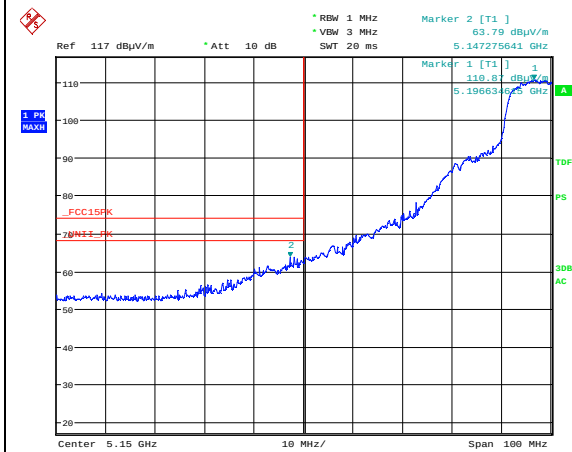
Date: 11.JUL.2023 12:55:13

Band Edge 5150 MHz, ch036, 802.11n HT20 SISO, Radiated, Max, Pk



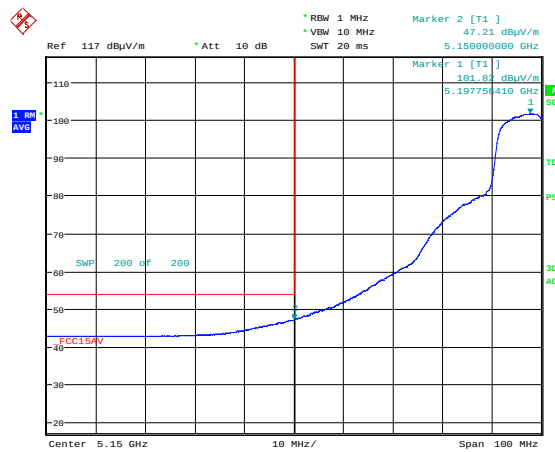
Date: 11.JUL.2023 12:55:35

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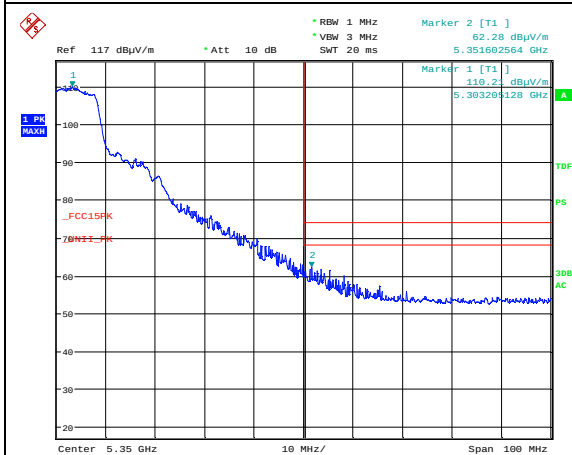
Date: 11.JUL.2023 12:52:54

Band Edge 5150MHz, ch040, 802.11n HT20 SISO, Radiated, Max, Pk



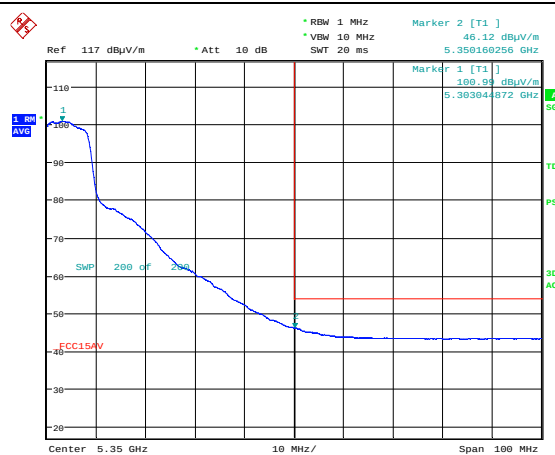
Date: 11.JUL.2023 12:53:20

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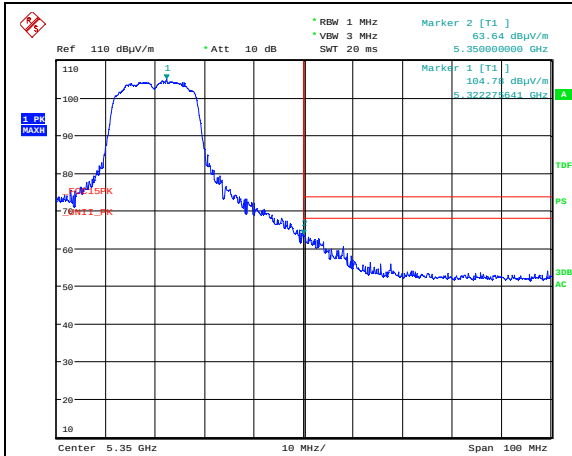
Date: 11.JUL.2023 12:49:00

Band Edge 5350 MHz, ch060, 802.11n HT20 SISO, Radiated, Max, Pk



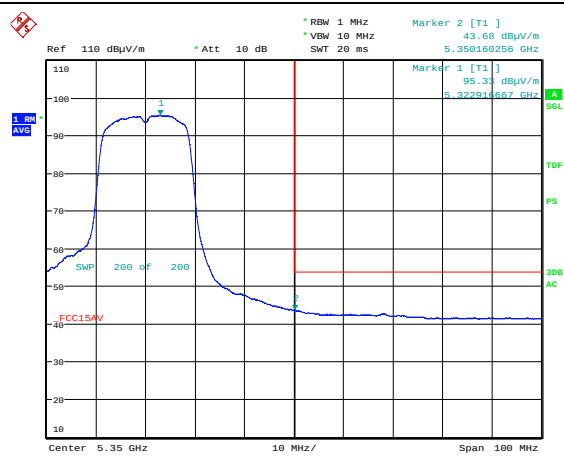
Date: 11.JUL.2023 12:49:41

Av



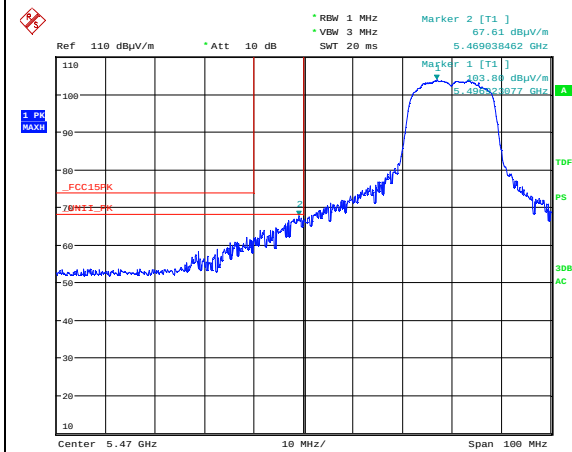
Date: 11.JUL.2023 12:57:02

Band Edge 5350 MHz, ch064, 802.11n HT20 SISO, Radiated, Max, Pk



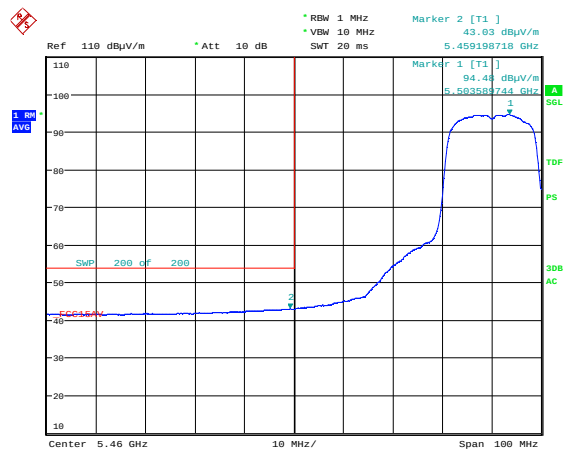
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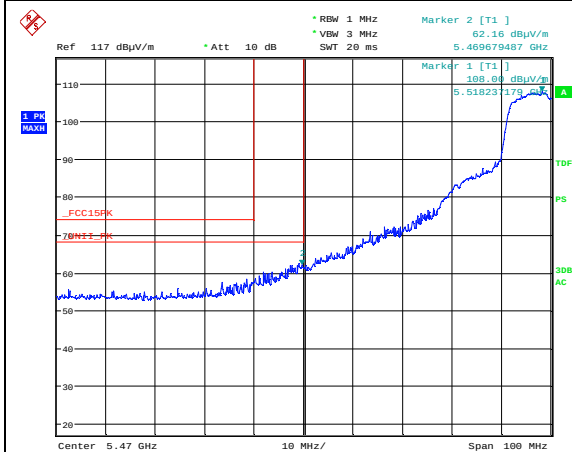
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Band Edge 5470 MHz, ch100, 802.11n HT20 SISO, Radiated, Max, Pk



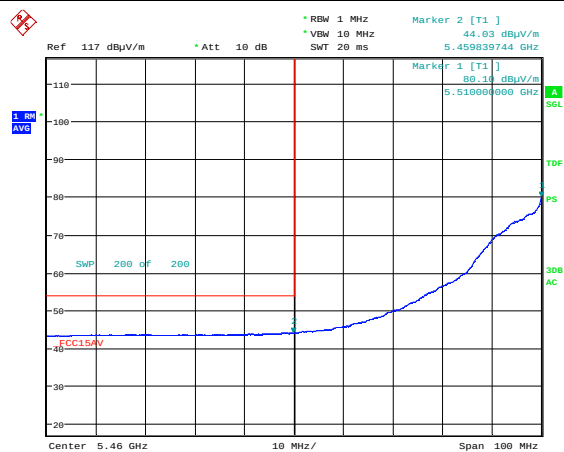
Date: 11.JUL.2023 13:02:16

Av



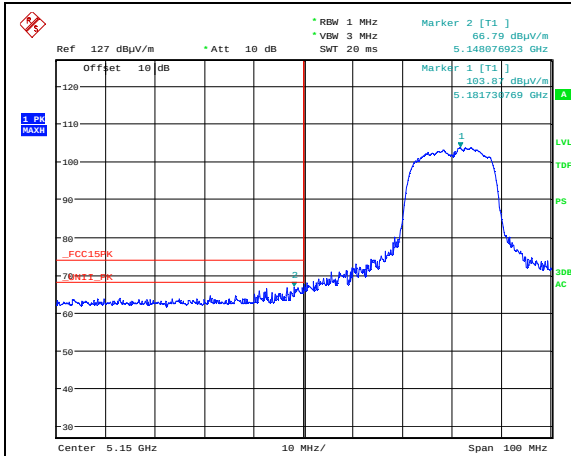
Date: 11.JUL.2023 12:44:21

Band Edge 5470 MHz, ch104, 802.11n HT20 SISO, Radiated, Max, Pk



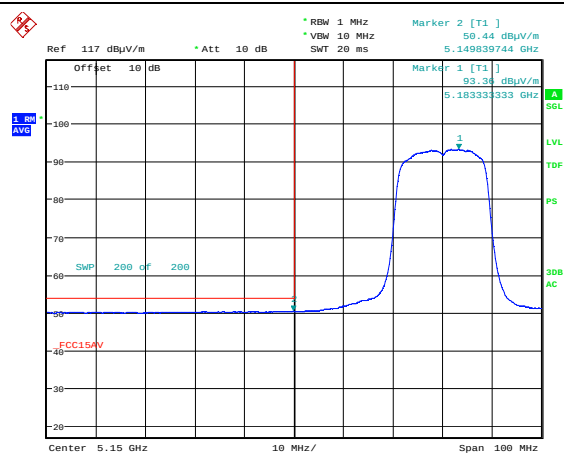
Date: 11.JUL.2023 12:45:12

Av



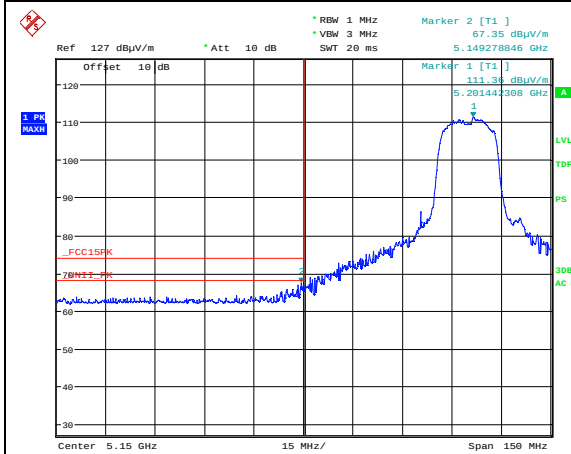
Date: 6.MAR.2023 15:01:21

Band Edge 5150 MHz, ch036, 802.11n HT20 MIMO, Radiated, Max, Pk



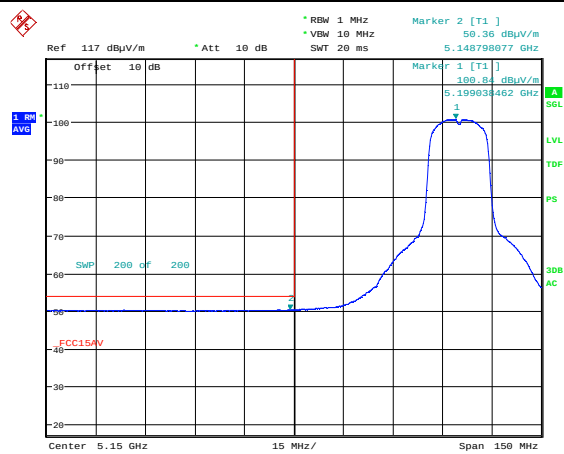
Date: 6.MAR.2023 15:01:44

Av



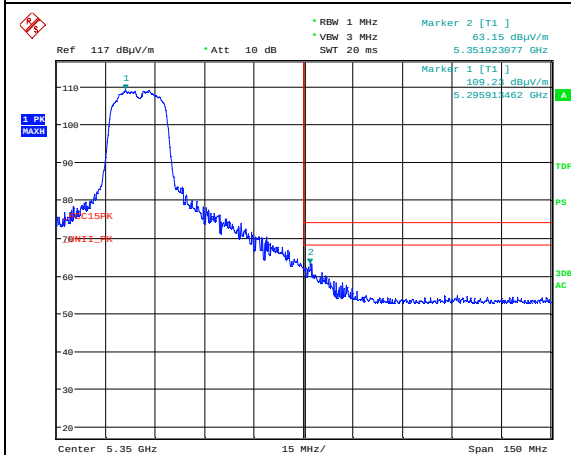
Date: 6.MAR.2023 14:37:37

Band Edge 5150 MHz, ch040, 802.11n HT20 MIMO, Radiated, Max, Pk



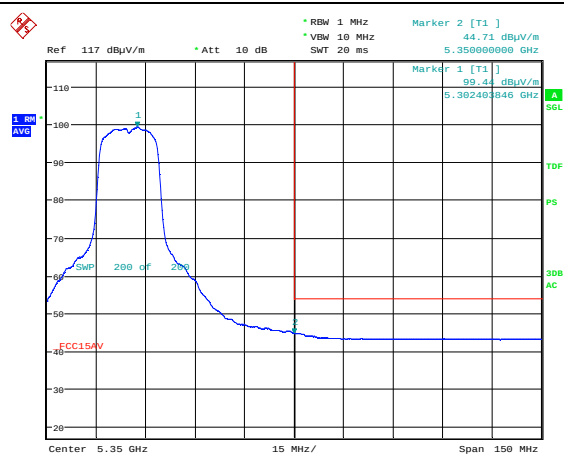
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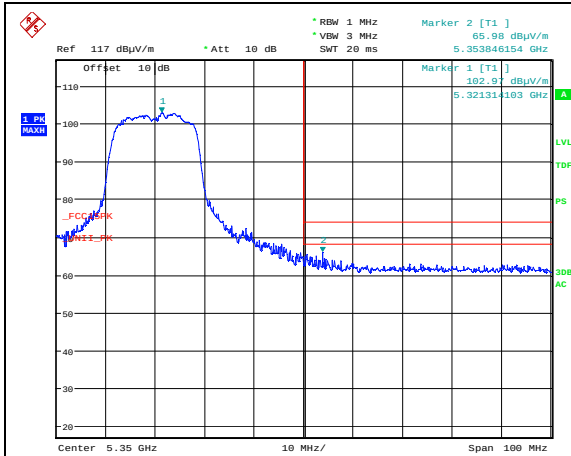
Date: 7.MAR.2023 13:07:13

Band Edge 5350 MHz, ch060, 802.11n HT20 MIMO, Radiated, Max, Pk



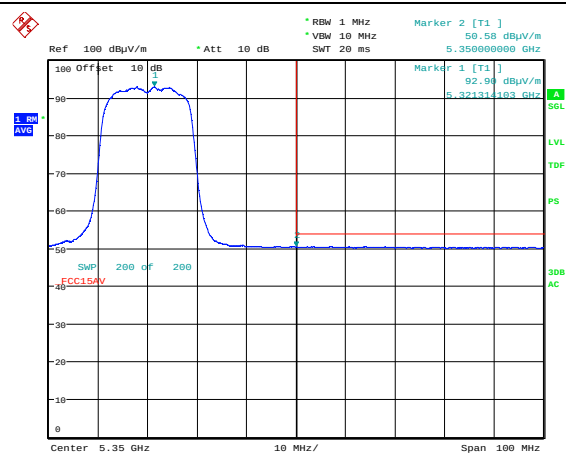
Date: 7.MAR.2023 13:08:23

Av



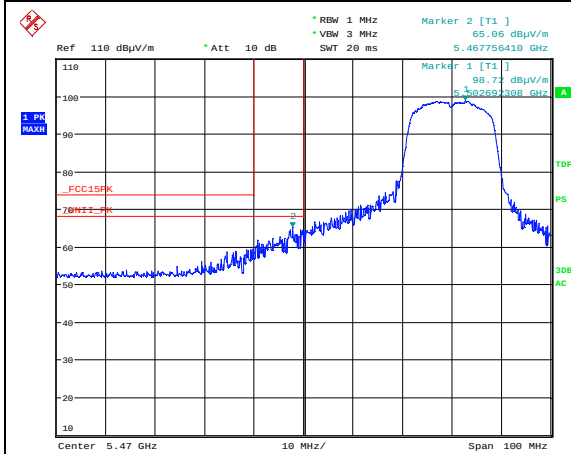
Date: 6.MAR.2023 15:12:35

Band Edge 5350 MHz, ch064, 802.11n HT20 MIMO, Radiated, Max, Pk



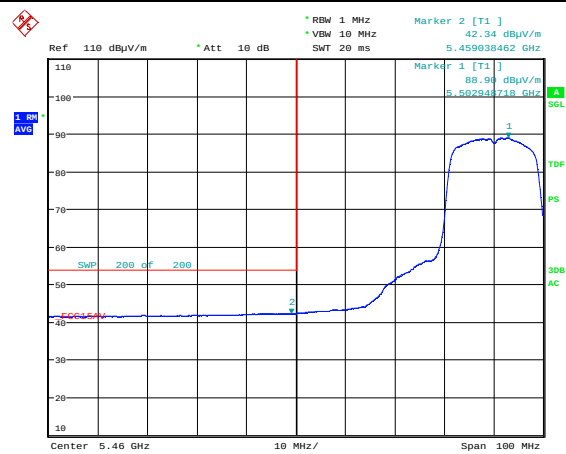
Date: 6.MAR.2023 15:14:37

Av



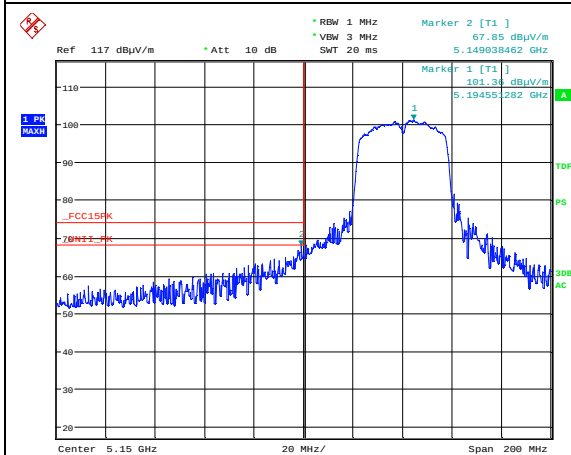
Date: 7.MAR.2023 13:18:26

Band Edge 5470 MHz, ch100, 802.11n HT20 MIMO, Radiated, Max, Pk



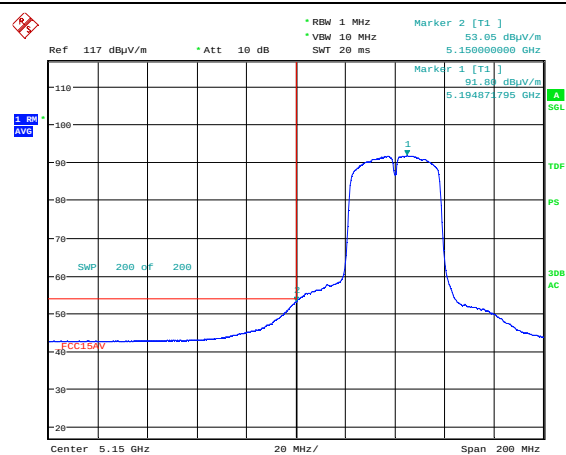
Date: 7.MAR.2023 13:18:48

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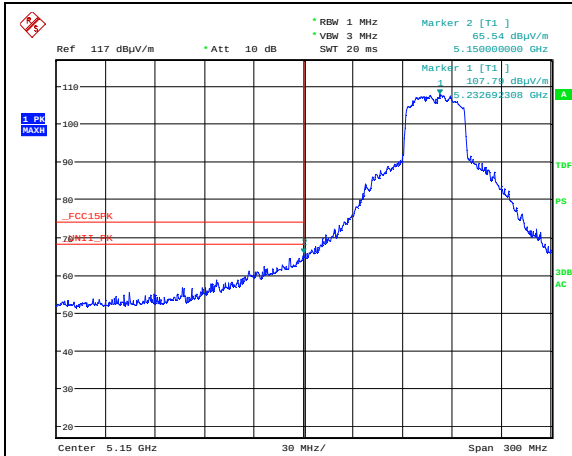
Date: 11.JUL.2023 11:05:10

Band Edge 5150 MHz, ch038, 802.11n HT40 SISO, Radiated, Max



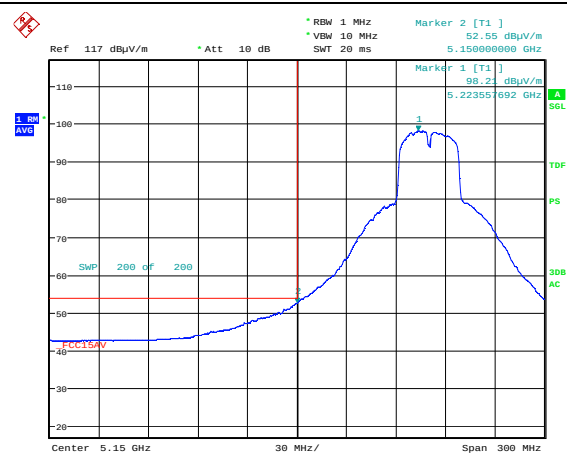
Date: 11.JUL.2023 11:07:02

Av



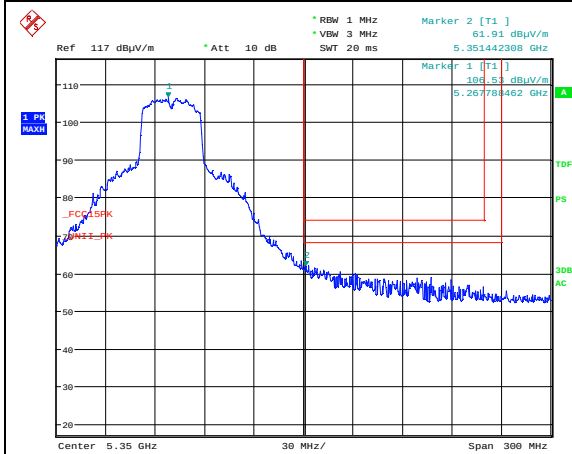
Date: 11.JUL.2023 11:00:25

Band Edge 5150 MHz, ch046, 802.11n HT40 SISO, Radiated, Max, Pk



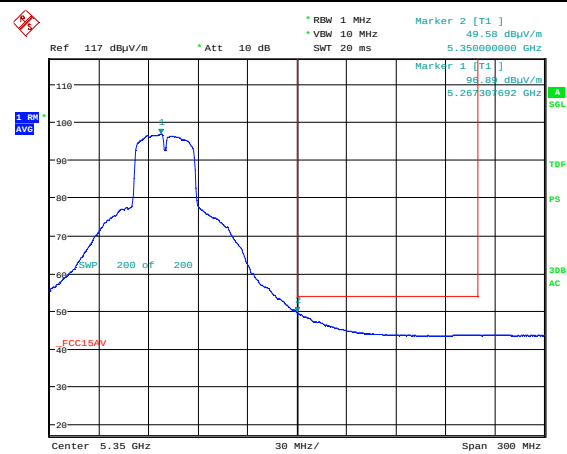
Date: 11.JUL.2023 11:01:18

Av



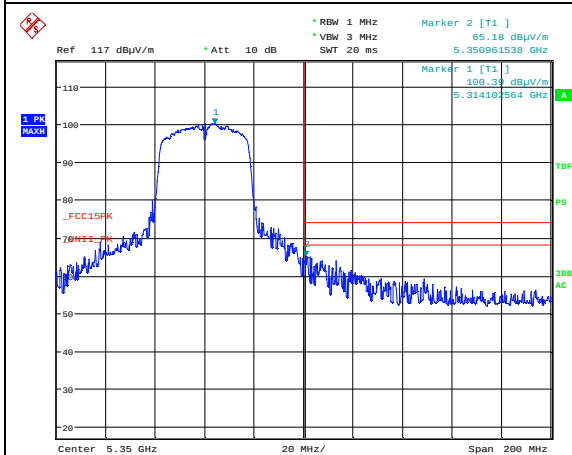
Date: 11.JUL.2023 10:53:34

Band Edge 5350 MHz, ch054, 802.11n HT40 SISO, Radiated, Max, Pk



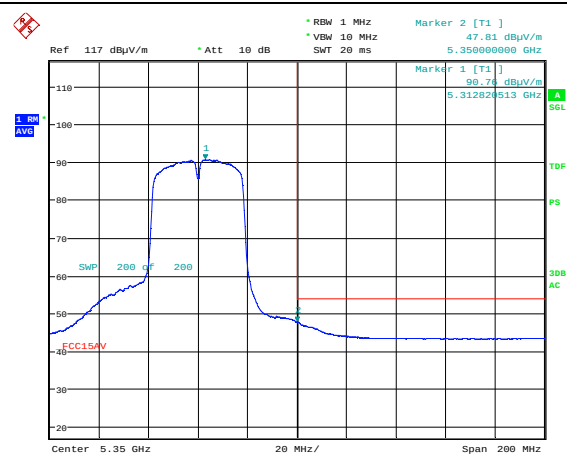
Date: 11.JUL.2023 10:56:45

Av



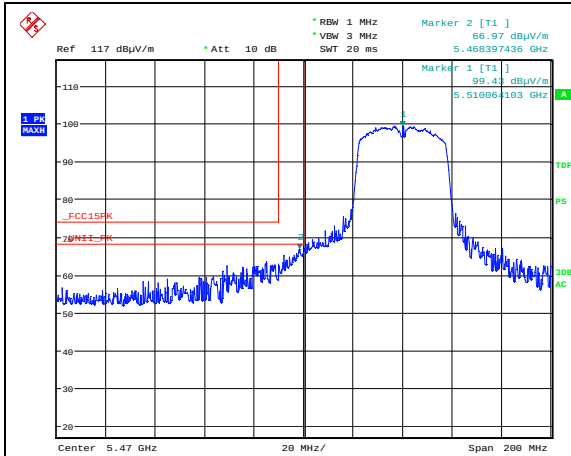
Date: 11.JUL.2023 10:49:35

Band Edge 5350 MHz, ch062, 802.11n HT40 SISO, Radiated, Max, Pk



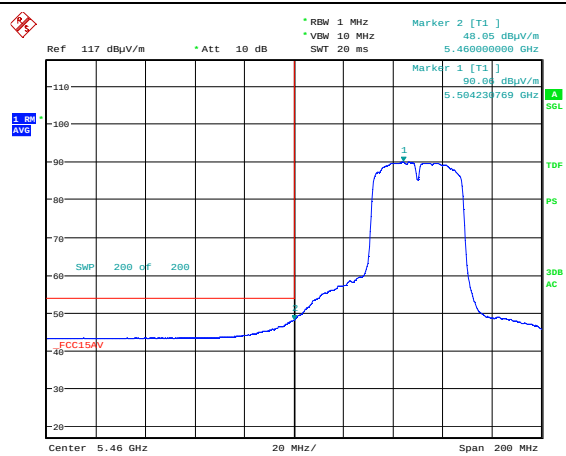
Date: 11.JUL.2023 10:50:28

Av



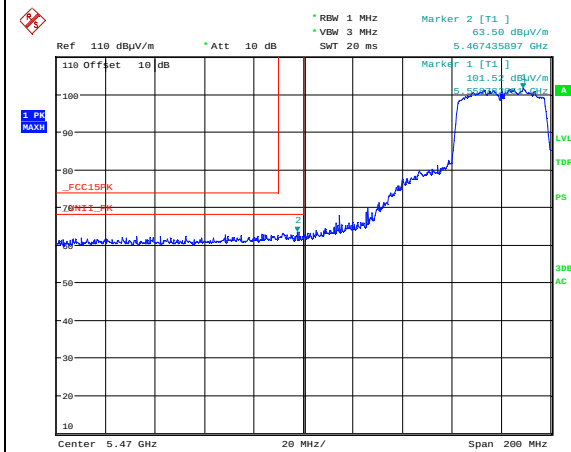
Date: 11.JUL.2023 10:44:11

Band Edge 5470 MHz, ch102, 802.11n HT40 SISO, Radiated, Max, Pk



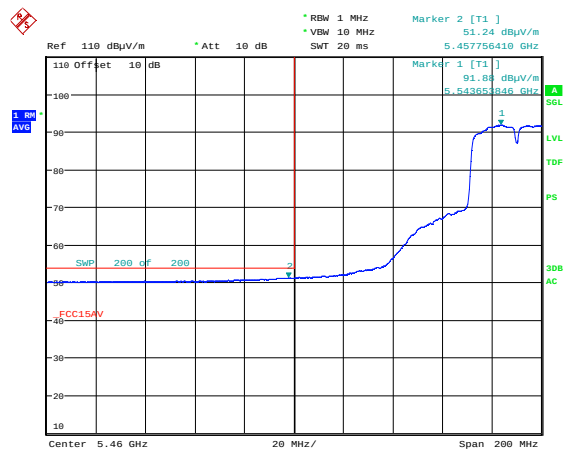
Date: 11.JUL.2023 10:46:05

Av



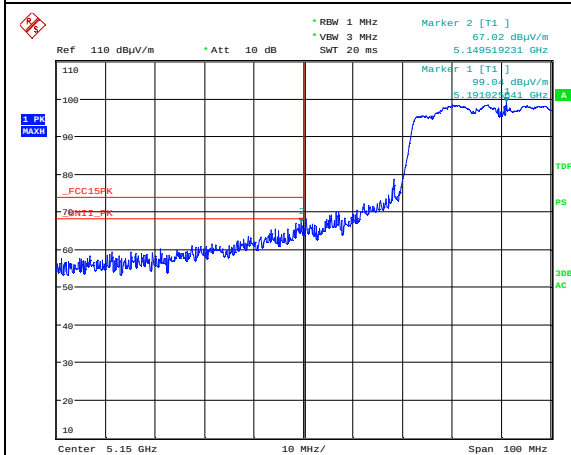
Date: 10.JUL.2023 13:41:18

Band Edge 5470 MHz, ch110, 802.11n HT40 SISO, Radiated, Max, Pk



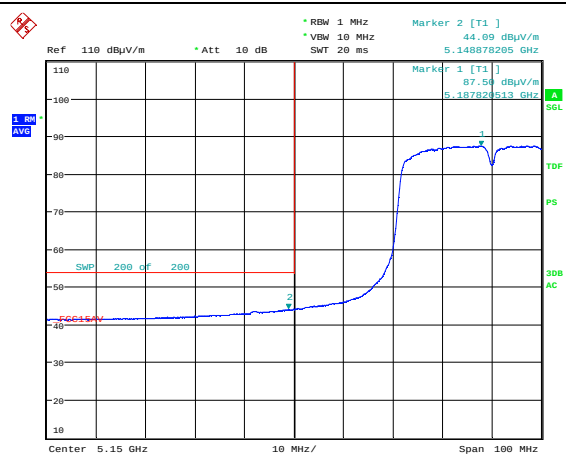
Date: 10.JUL.2023 13:42:07

Av



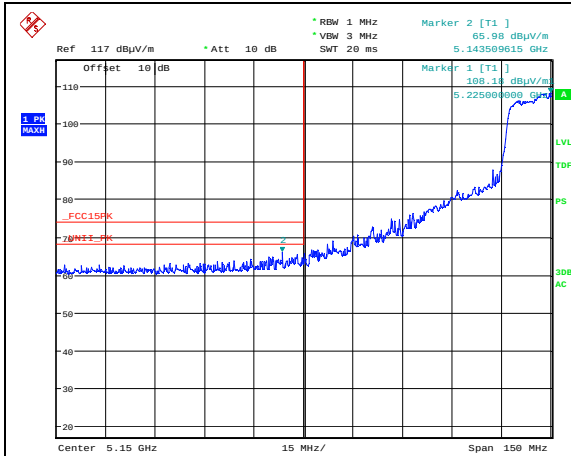
Date: 10.JUL.2023 15:15:55

Band Edge 5150 MHz, ch038, 802.11n HT40 MIMO, Radiated, Max, Pk PL2



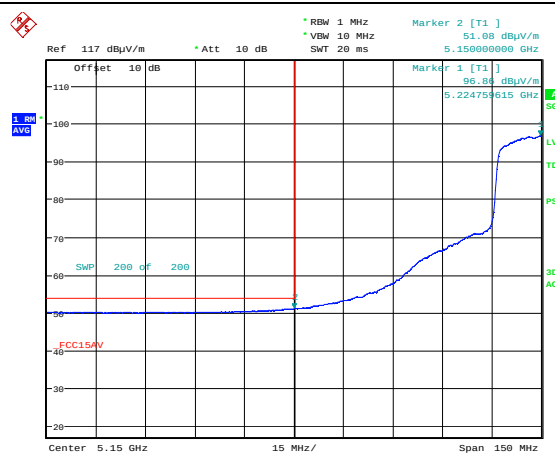
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Av



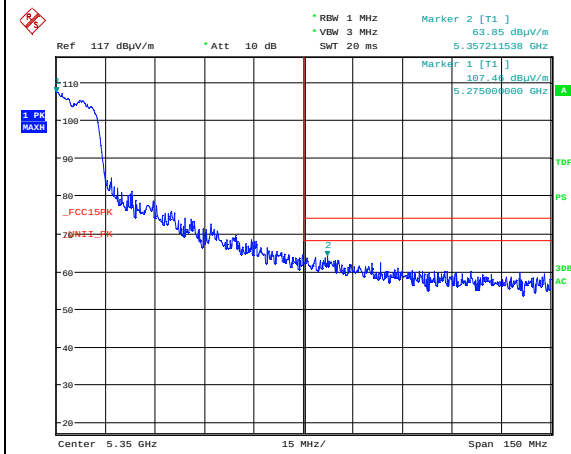
Date: 10.JUL.2023 14:59:44

Band Edge 5150 MHz, ch046, 802.11n HT40 MIMO, Radiated, Max, Pk



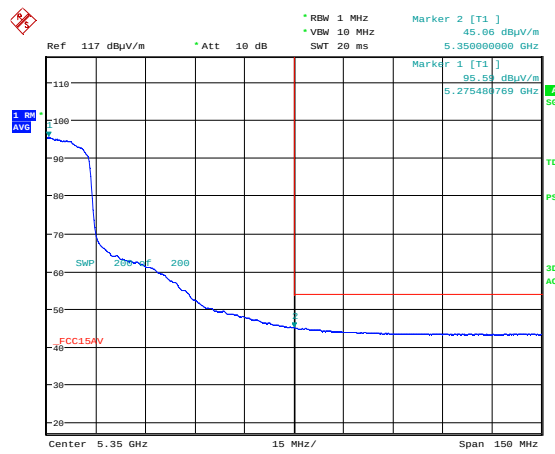
Date: 10.JUL.2023 15:00:06

Av



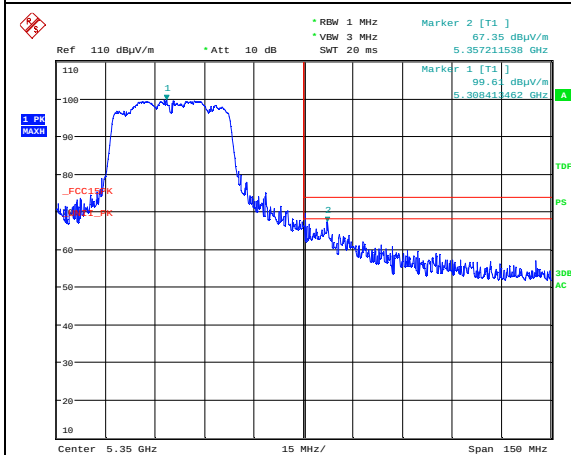
Date: 10.JUL.2023 15:26:45

Band Edge 5350 MHz, ch054, 802.11n HT40 MIMO, Radiated, Max, Pk



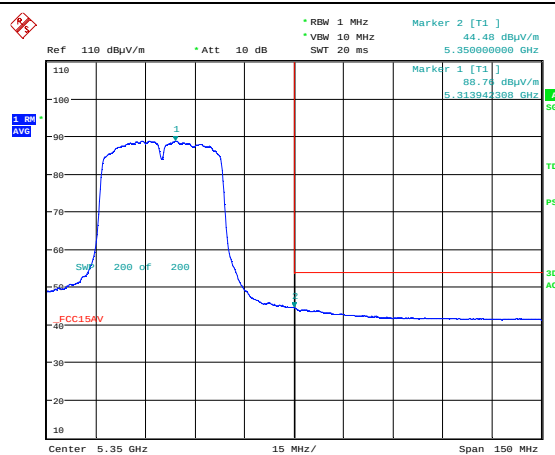
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Av



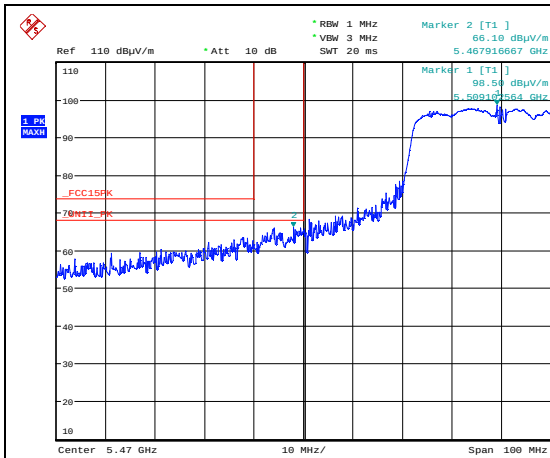
Date: 10.JUL.2023 15:37:09

Band Edge 5350 MHz, ch062, 802.11n HT40 MIMO, Radiated, Max, Pk



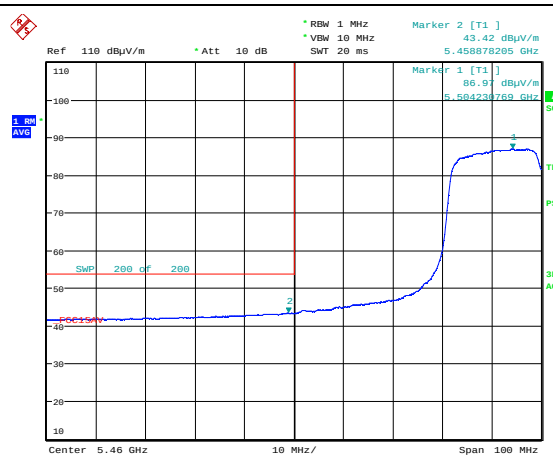
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Av



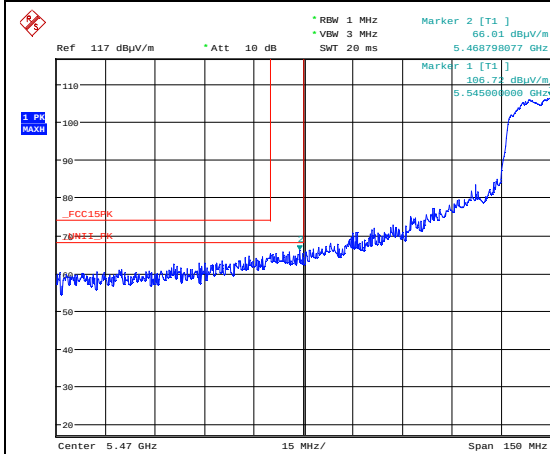
Date: 10.JUL.2023 15:46:28

Band Edge 5470 MHz, ch102, 802. 11n HT40 MIMO, Radiated, Max, Pk PL3



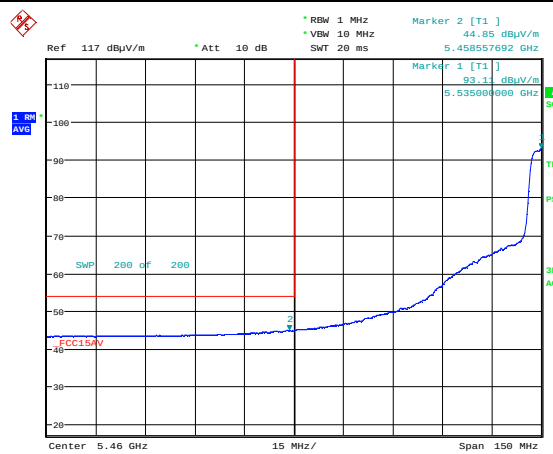
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Av



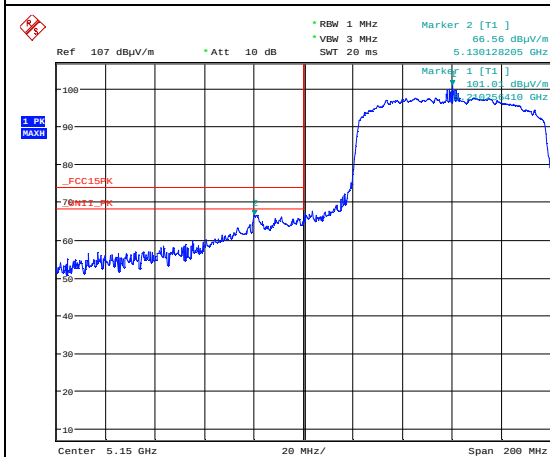
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Band Edge 5470 MHz, ch110, 802. 11n HT40 MIMO, Radiated, Max, Pk



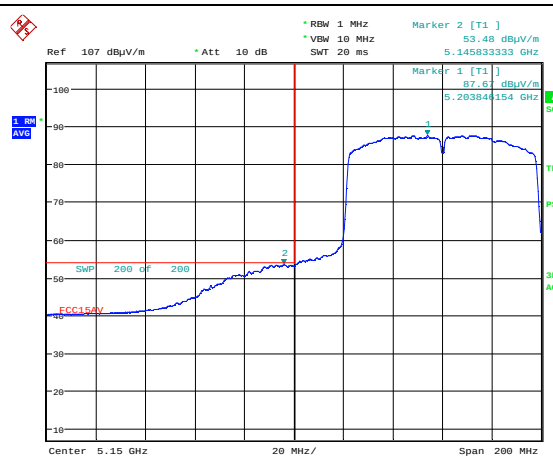
Date: 10.JUL.2023 15:52:36

Av



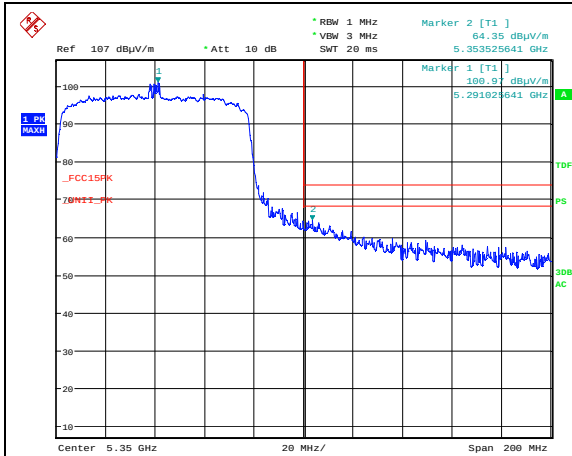
Date: 11.JUL.2023 09:53:41

Band Edge 5150 MHz, ch042, 802.11ac HT80 SISO, Radiated, Max, Pk PL6



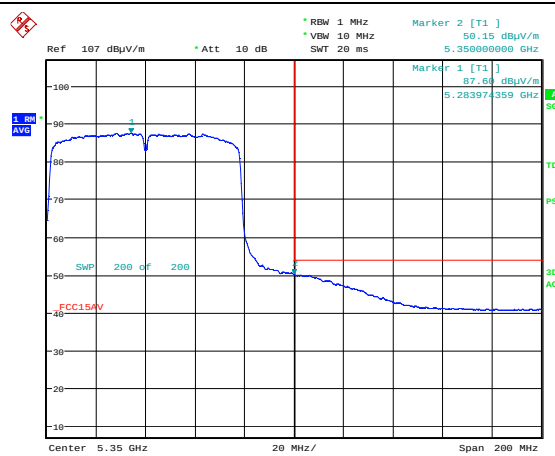
Date: 11.JUL.2023 09:54:26

Av



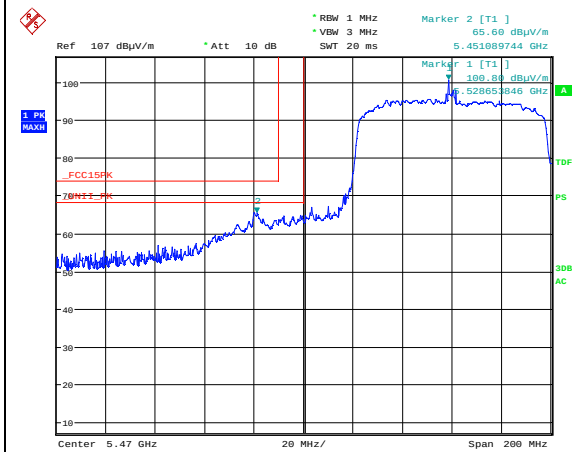
Date: 11.JUL.2023 09:44:48

Band Edge 5350 MHz, ch058, 802.11ac HT80 SISO, Radiated, Max, Pk



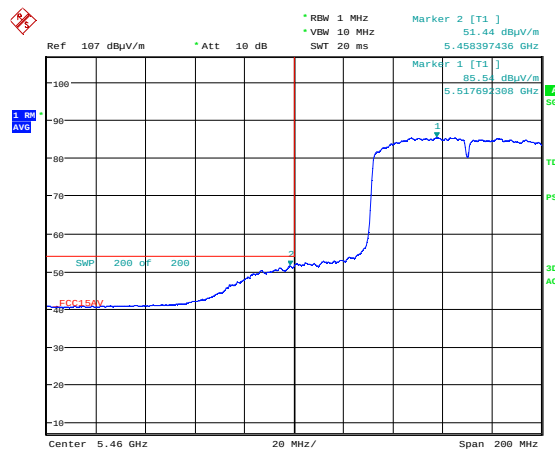
Date: 11.JUL.2023 09:47:08

Av



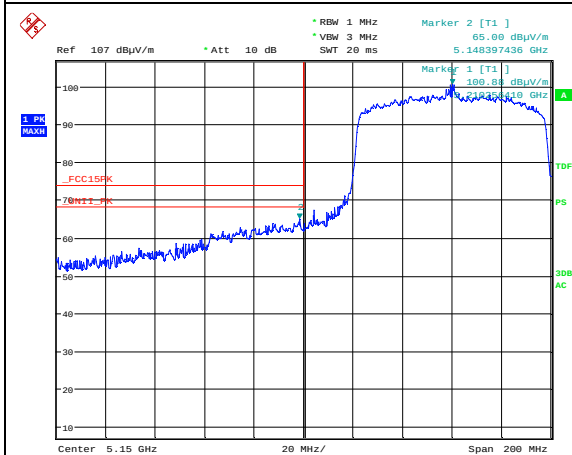
Date: 11.JUL.2023 09:40:55

Band Edge 5470 MHz, ch106, 802.11ac HT80 SISO, Radiated, Max, Pk PL6



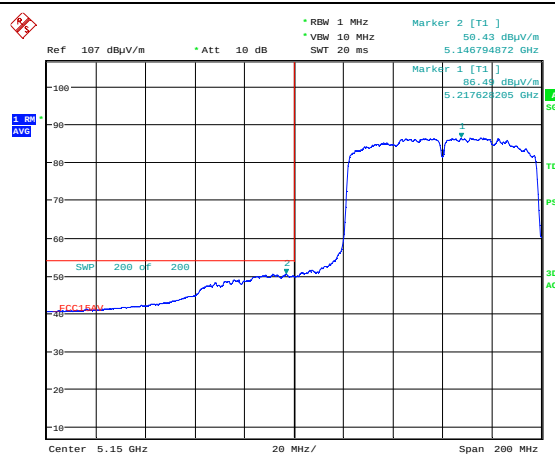
Date: 11.JUL.2023 09:41:47

Av



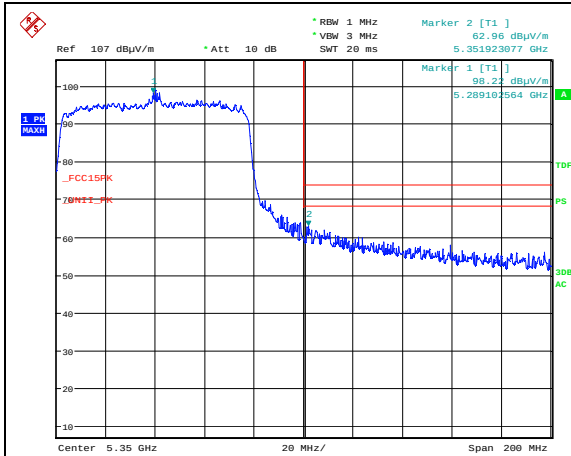
Date: 11.JUL.2023 08:59:36

Band Edge 5150 MHz, ch042, 802.11ac HT80 MIMO, Radiated, Max, Pk



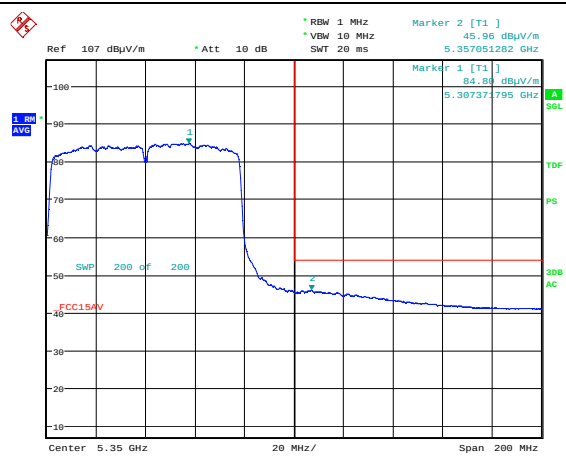
Date: 11.JUL.2023 09:00:19

Av



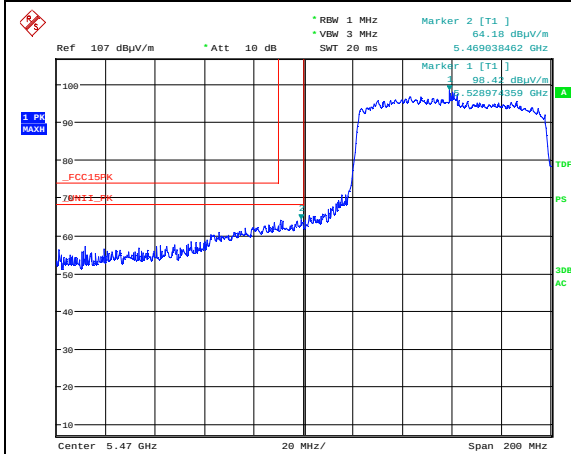
Date: 11.JUL.2023 08:57:25

Band Edge 5350 MHz, ch058, 802.11ac HT80 MIMO, Radiated, Max, Pk



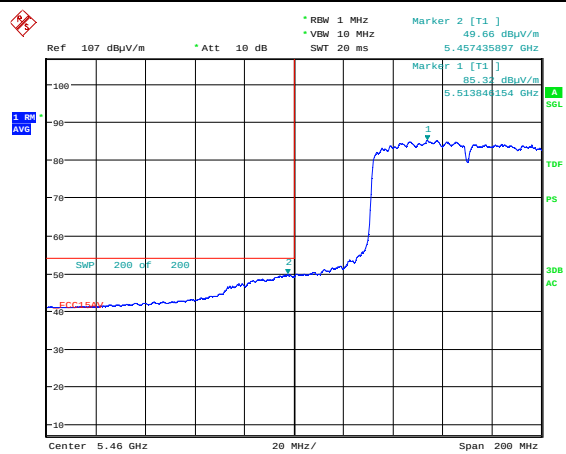
Date: 11.JUL.2023 08:58:07

Av



Date: 11.JUL.2023 08:54:20

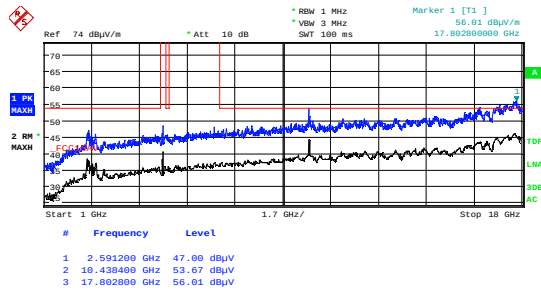
Band Edge 5470 MHz, ch106, 802.11ac HT80 MIMO, Radiated, Max, Pk



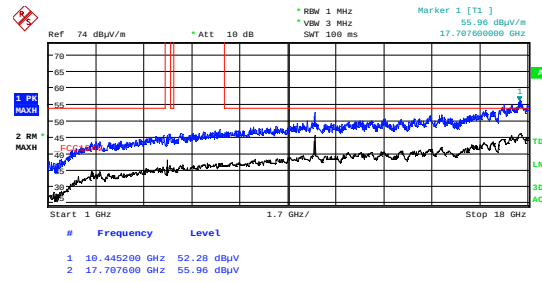
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Av

Combi Antenna



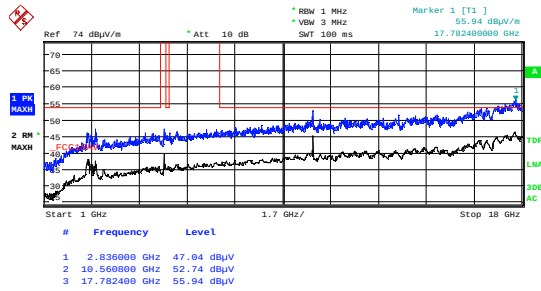
Date: 28.FEB.2023 13:11:47



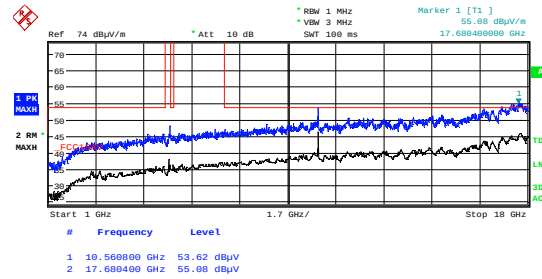
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Radiated Emissions 1-18 GHz, Ch044, 802.11a 6M, VP

HP



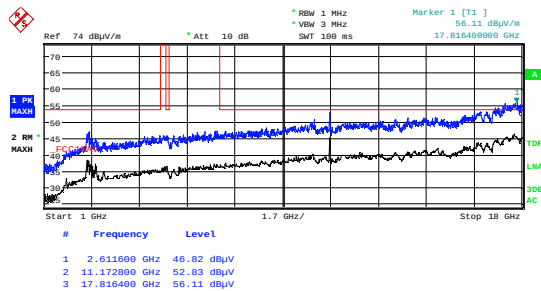
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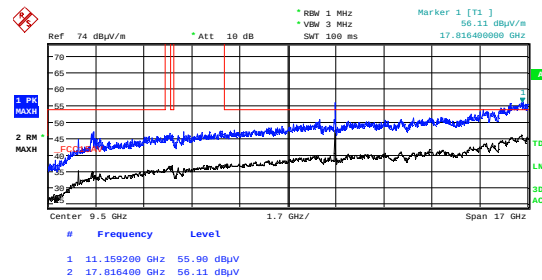
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Radiated Emissions 1-18 GHz, Ch056, 802.11a 6M, VP

HP



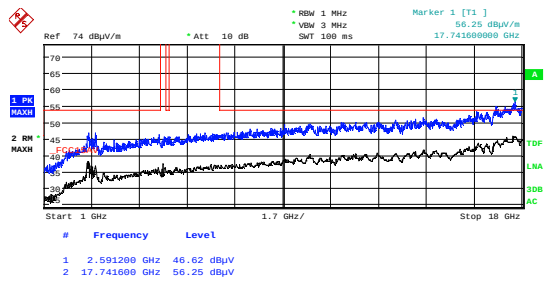
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Date: 28.FEB.2023 14:08:02

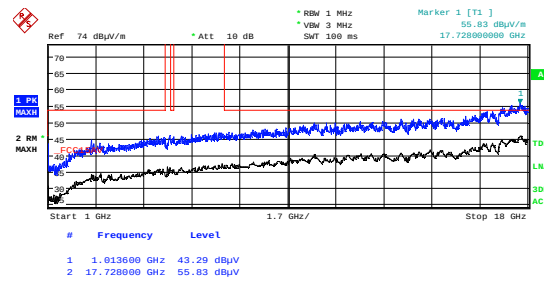
Radiated Emissions 1-18 GHz, Ch116, 802.11a 6M, VP

HP



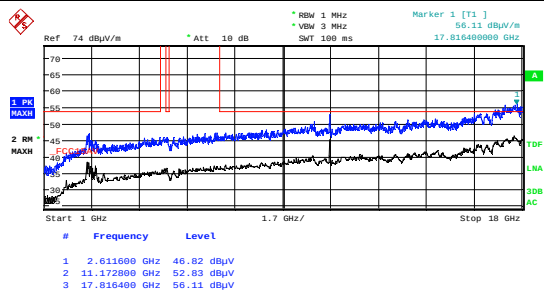
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Radiated Emissions 1-18 GHz, Ch044, 802.11n HT20, VP



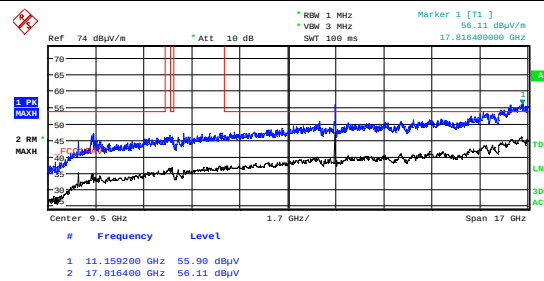
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HP



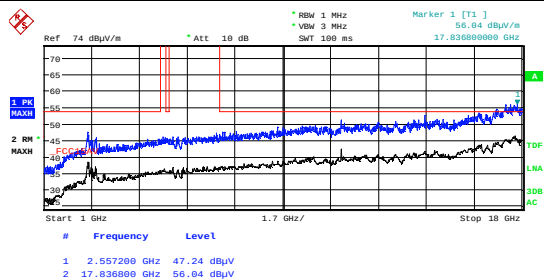
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Radiated Emissions 1-18 GHz, Ch116, 802.11n HT20, VP



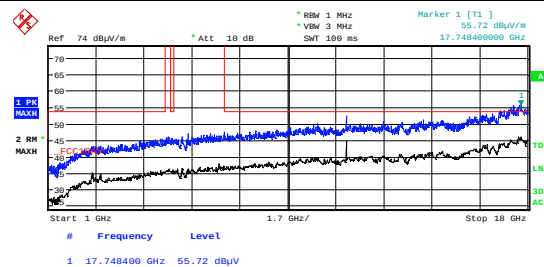
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HP



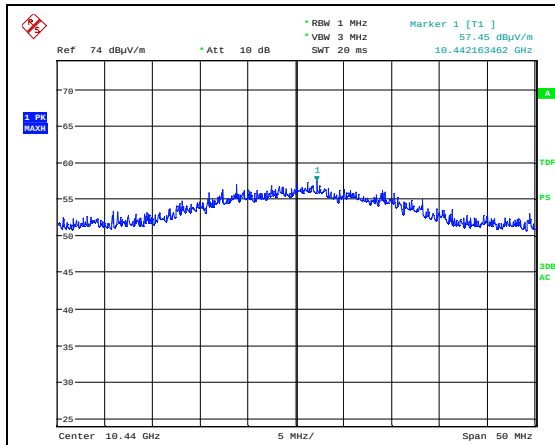
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Radiated Emissions 1-18 GHz, Ch157, 802.11n HT20, VP

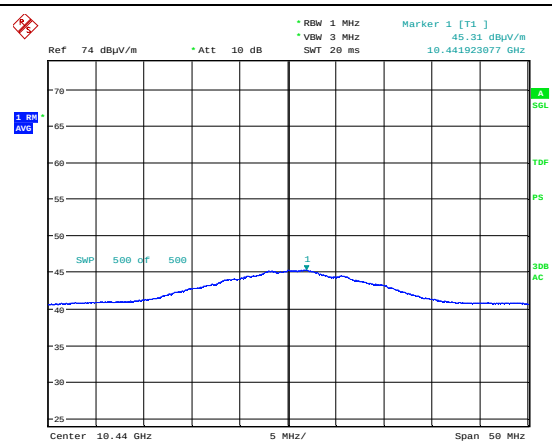


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HP



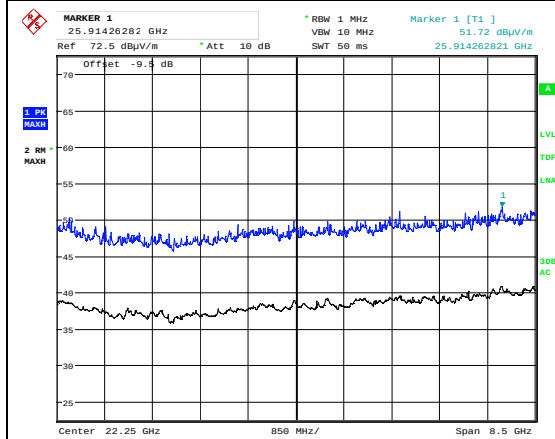
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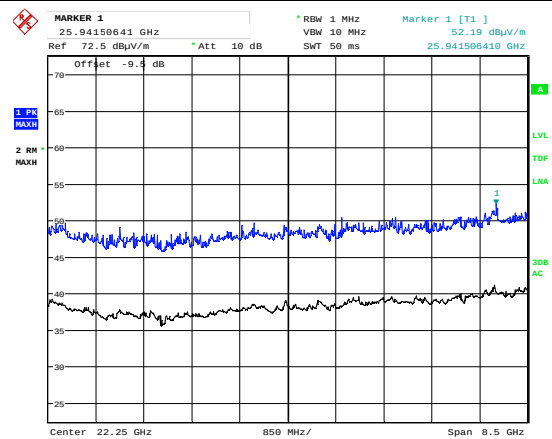
Date: 28.FEB.2023 13:46:56

Radiated Emissions 10440 MHz, Ch044, 802.11a 6M, Max: HP, Pk

Av



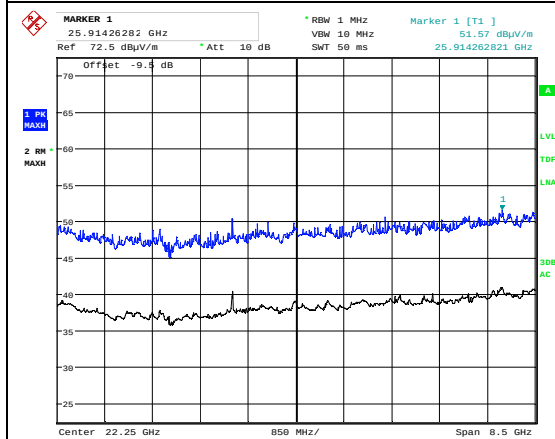
Date: 14.MAR.2023 12:53:32



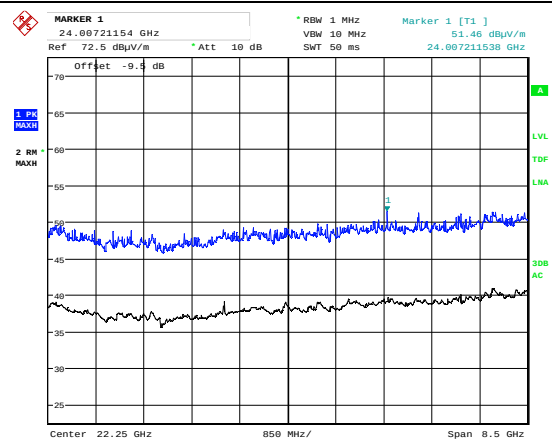
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Radiated Emissions 18-26 GHz, Ch056, 802.11a 6M, Ant1, VP

HP



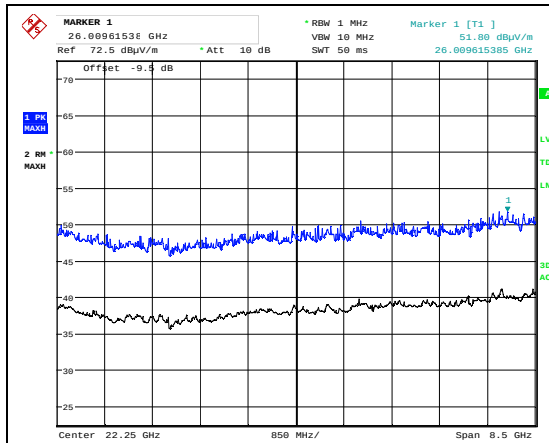
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Date: 14.MAR.2023 12:58:27

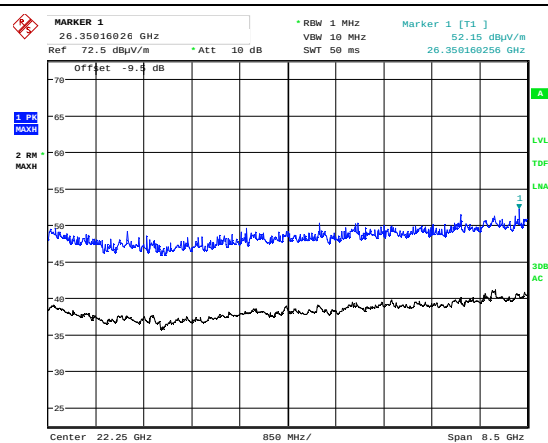
Radiated Emissions 18-26 GHz, Ch056, 802.11a 6M, Ant2, VP

HP



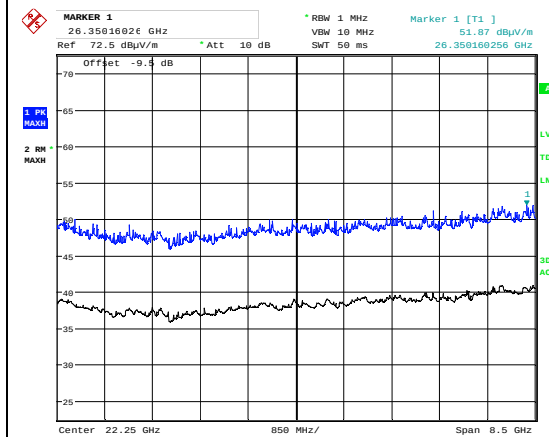
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Radiated Emissions 18-26 GHz, Ch056, 802.11n MCS0, MIMO, VP



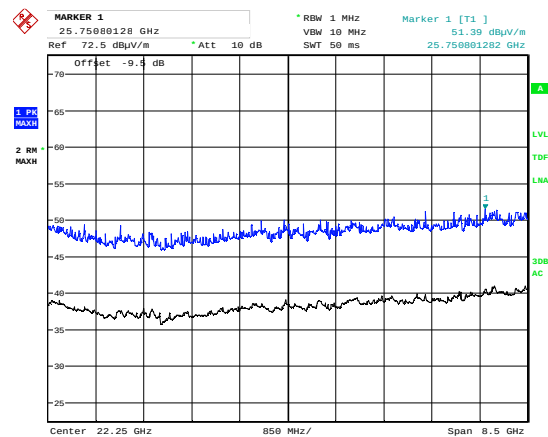
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HP



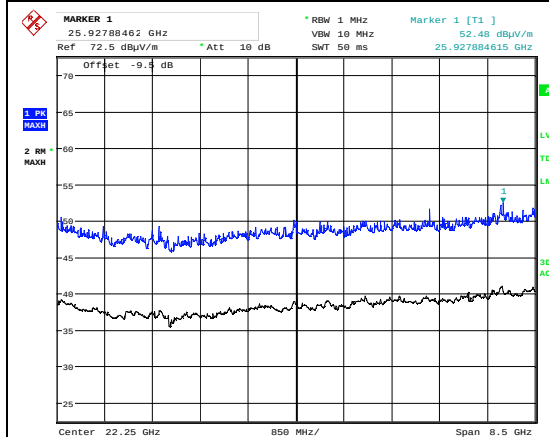
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Radiated Emissions 18-26 GHz, Ch106, 802.11ac HT80 MCS0, MIMO, VP



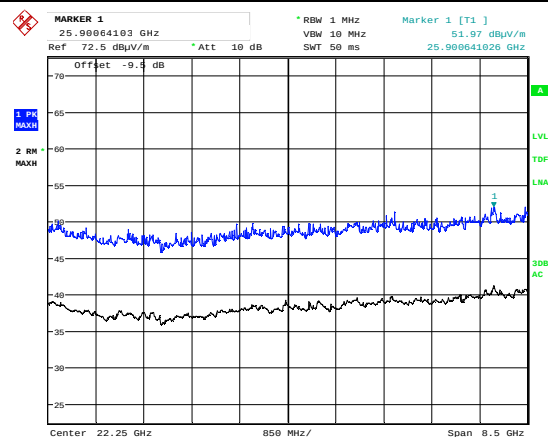
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HP



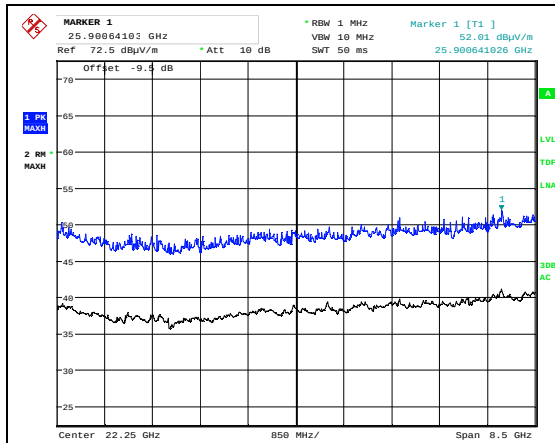
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Radiated Emissions 18-26 GHz, Ch110, 802.11ac HT40 MCS0, MIMO, VP



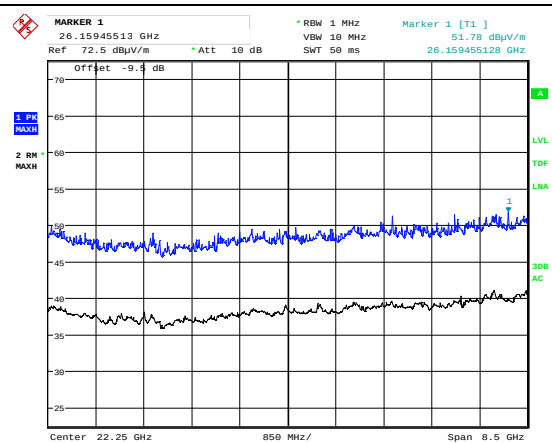
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HP



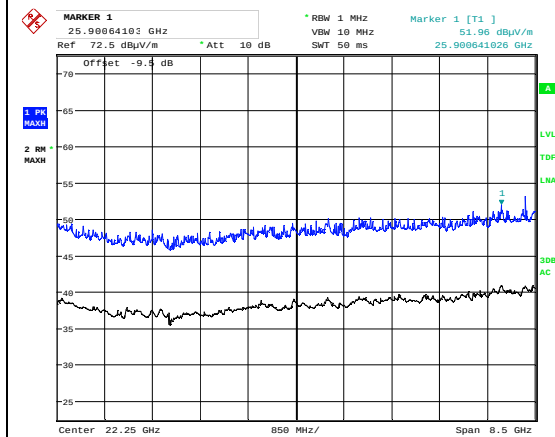
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Radiated Emissions 18-26 GHz, Ch116, 802.11a 6M, Ant1, VP



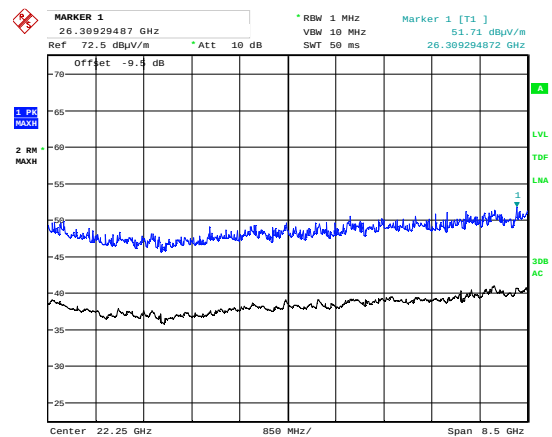
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HP



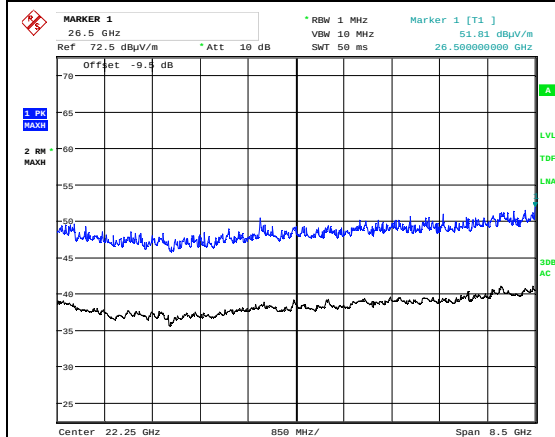
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Radiated Emissions 18-26 GHz, Ch116, 802.11a 6M, Ant2, VP



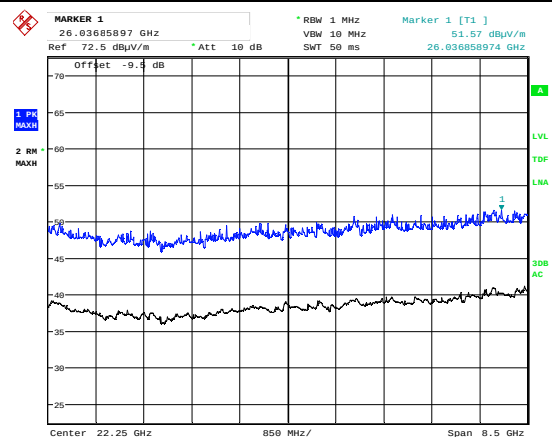
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HP



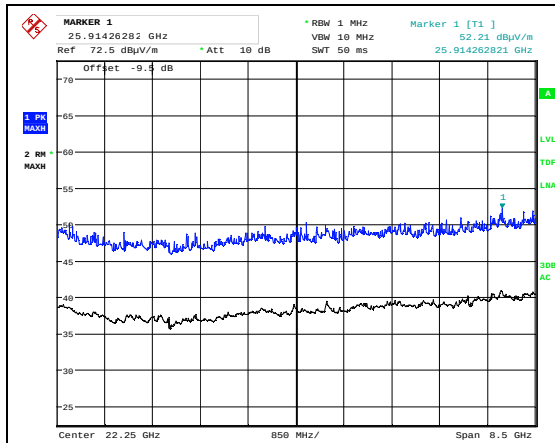
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Radiated Emissions 18-26 GHz, Ch116, 802.11n MCS0, MIMO, VP



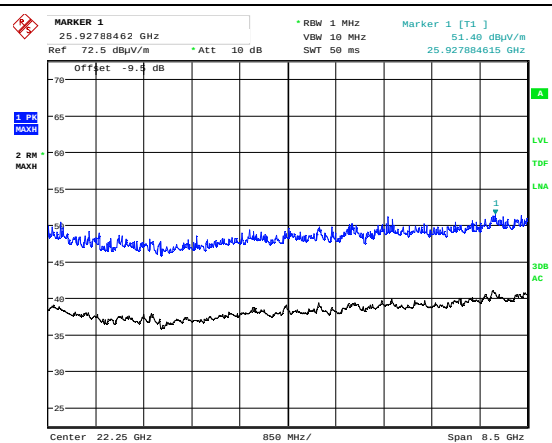
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HP



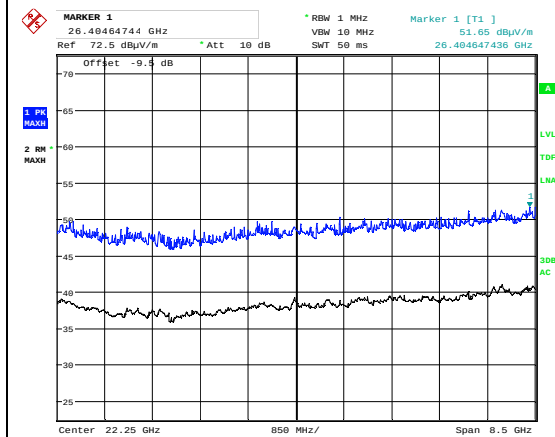
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Radiated Emissions 18-26 GHz, Ch157, 802.11a 6M, Ant1, VP



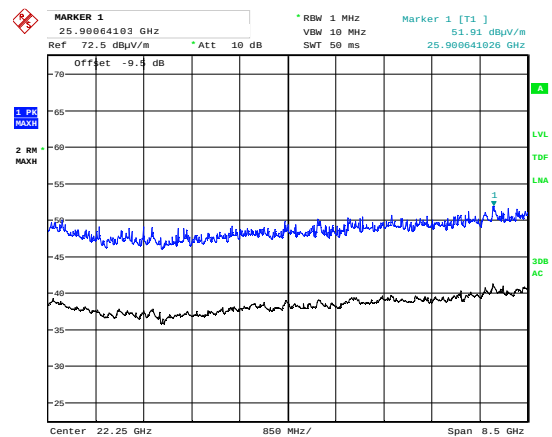
Date: 14.MAR.2023 12:35:08

HP



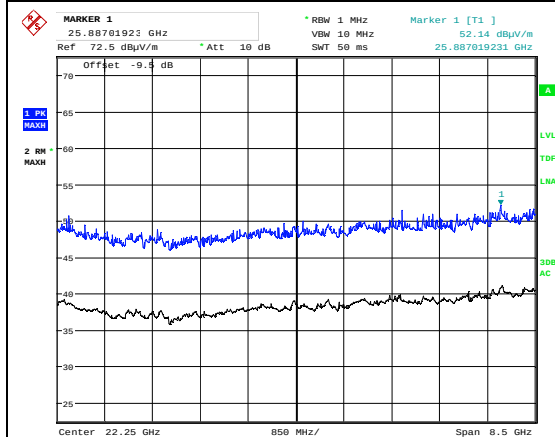
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Radiated Emissions 18-26 GHz, Ch157, 802.11a 6M, Ant2, VP



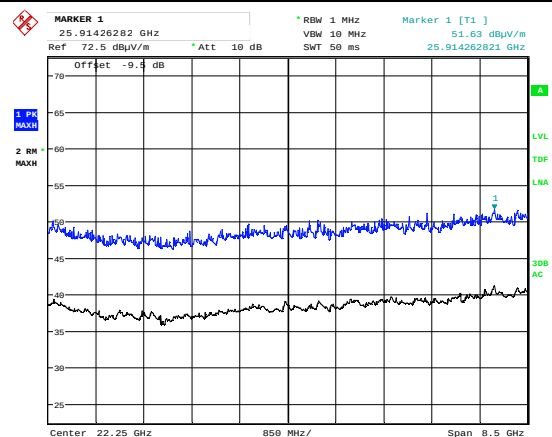
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HP



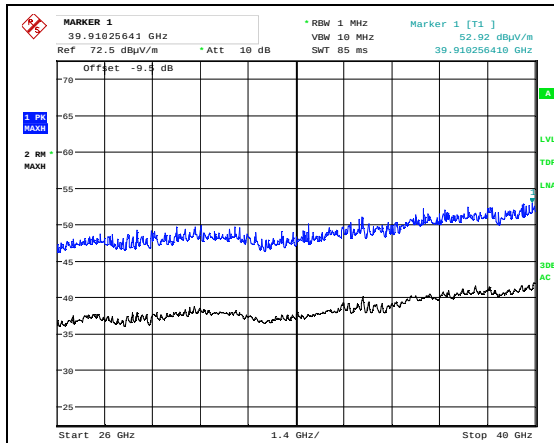
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Radiated Emissions 18-26 GHz, Ch157, 802.11n MCS0, MIMO, VP



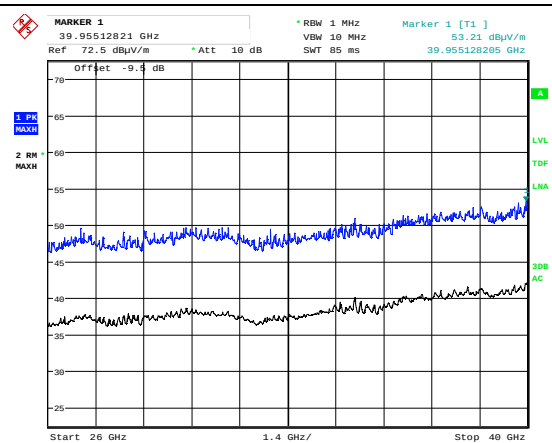
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HP



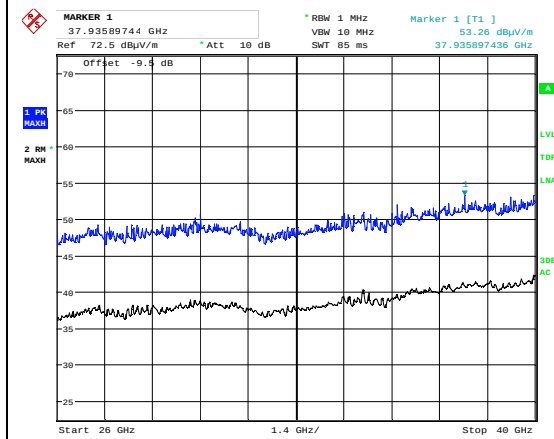
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Radiated Emissions 18-26 GHz, Ch056, 802.11n MCS0, MIMO, VP



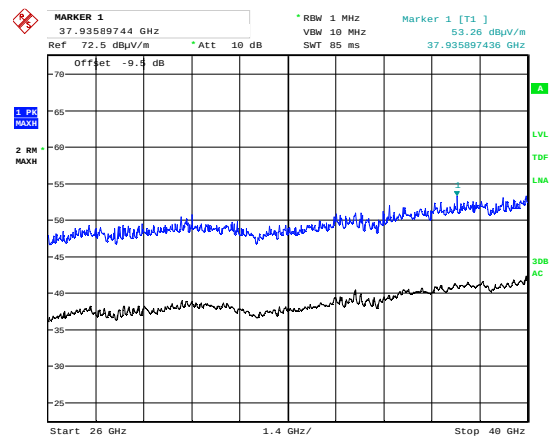
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HP



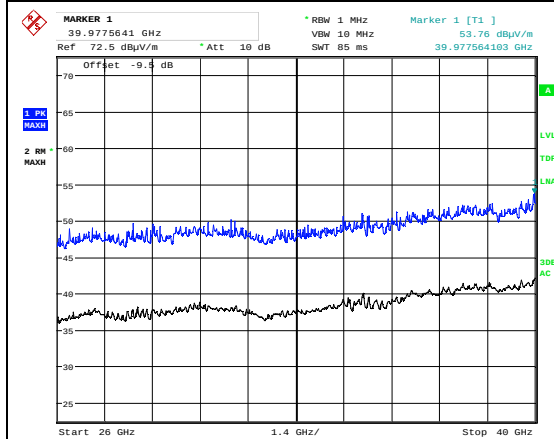
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Radiated Emissions 18-26 GHz, Ch106, 802.11n HT80 MCS0, MIMO, VP



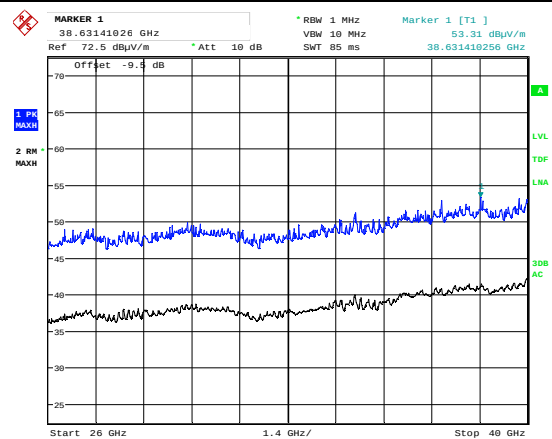
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HP



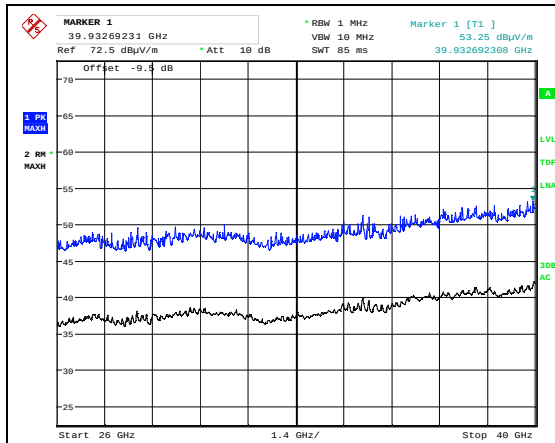
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Radiated Emissions 18-26 GHz, Ch110, 802.11n HT40 MCS0, MIMO, VP



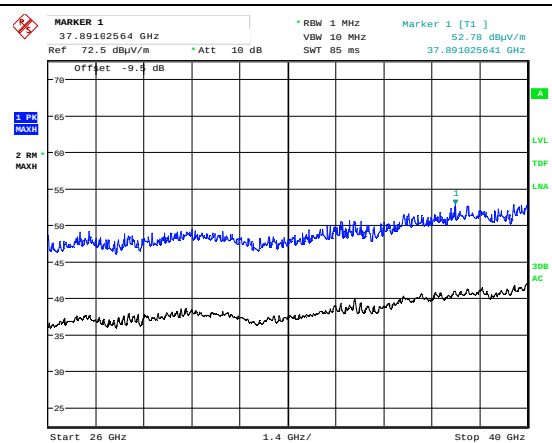
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HP



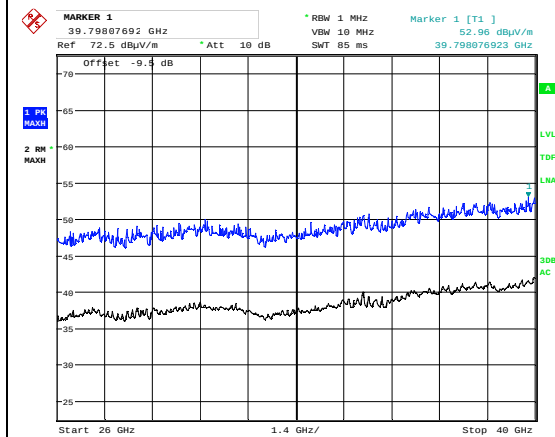
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Radiated Emissions 18-26 GHz, Ch116, 802.11a 6M, Ant1, VP



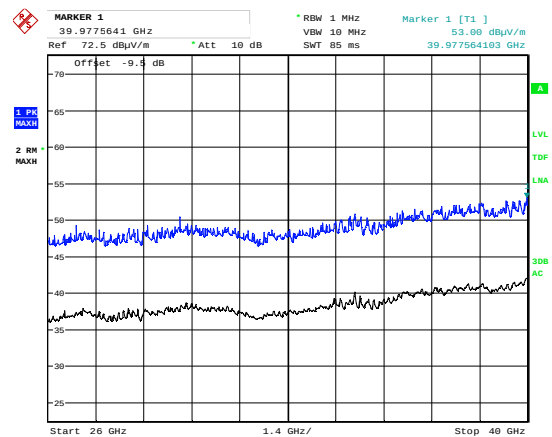
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HP



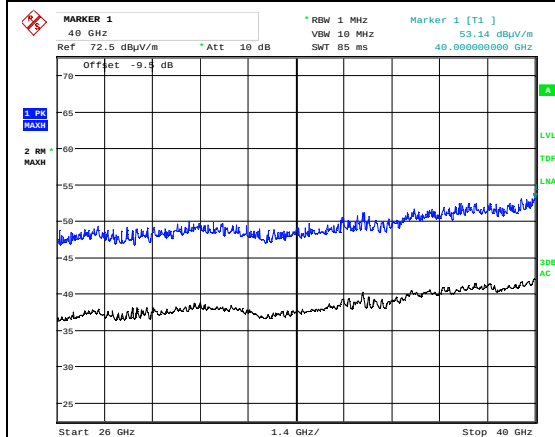
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Radiated Emissions 18-26 GHz, Ch116, 802.11a 6M, Ant2, VP



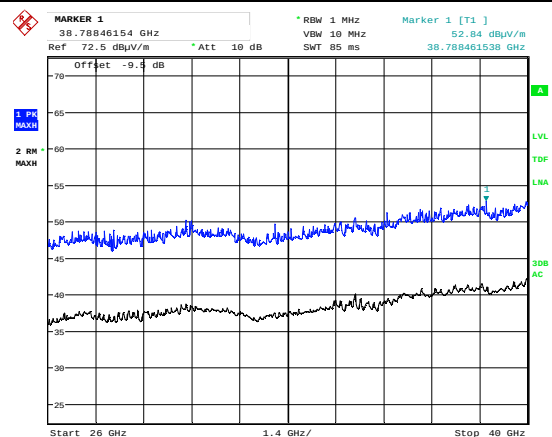
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HP



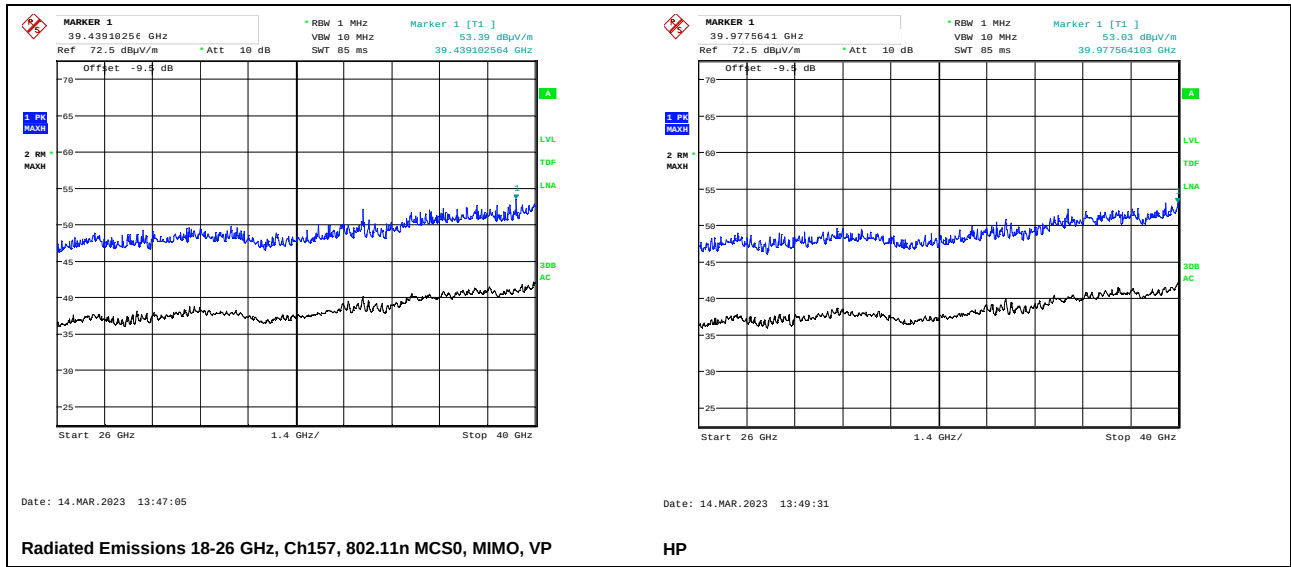
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Radiated Emissions 18-26 GHz, Ch116, 802.11n MCS0, MIMO, VP

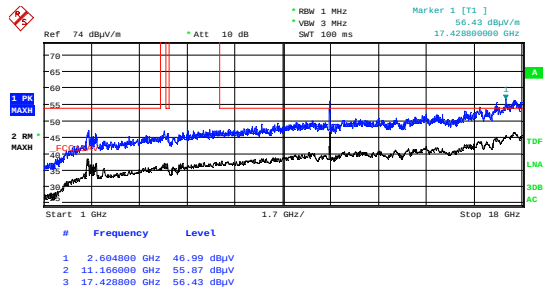


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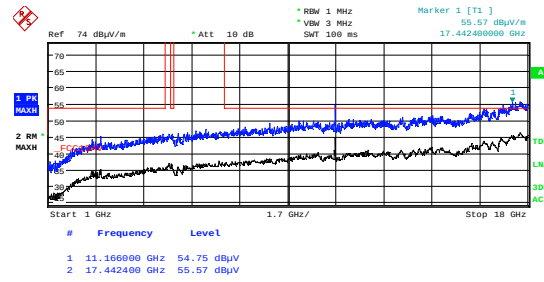
HP



Whip+Patch Antenna



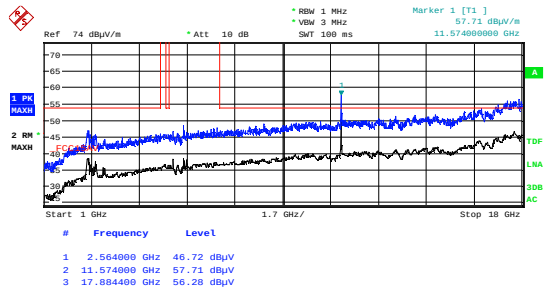
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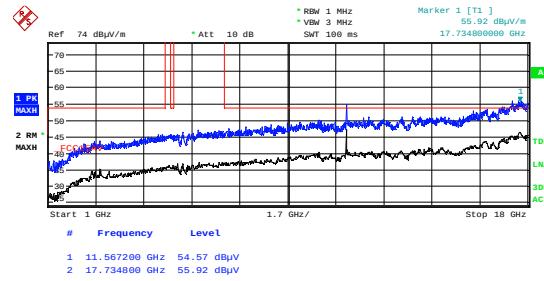
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Radiated Emissions 1-18 GHz, Ch116, 802.11n HT20, MIMO, VP

HP



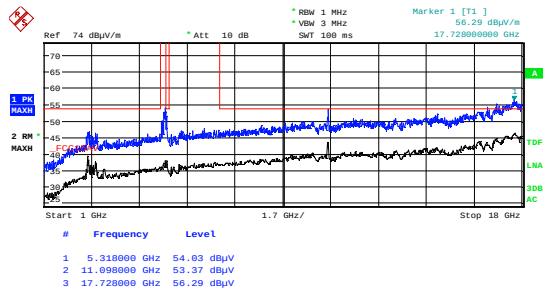
Date: 8.MAR.2023 10:55:31



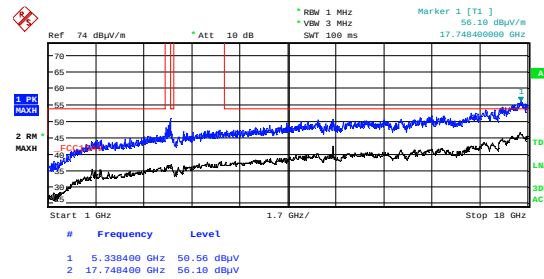
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Radiated Emissions 1-18 GHz, Ch157, 802.11n HT20, MIMO, VP

HP



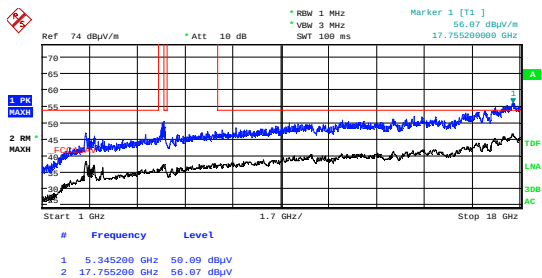
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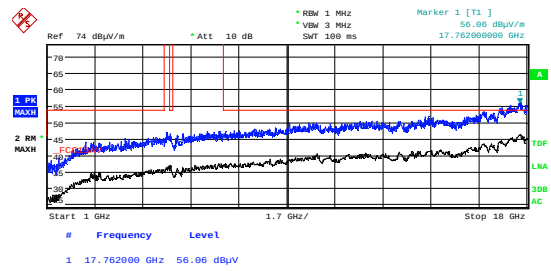
Radiated Emissions 1-18 GHz, Ch110, 802.11n HT40, MIMO, VP

HP



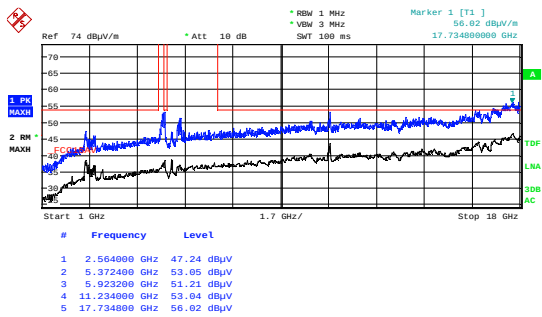
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Radiated Emissions 1-18 GHz, Ch106, 802.11n HT80, MIMO, VP



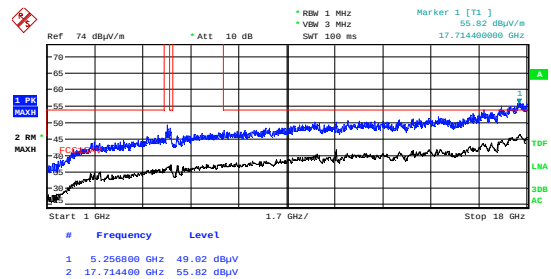
Date: 8.MAR.2023 09:37:19

HP



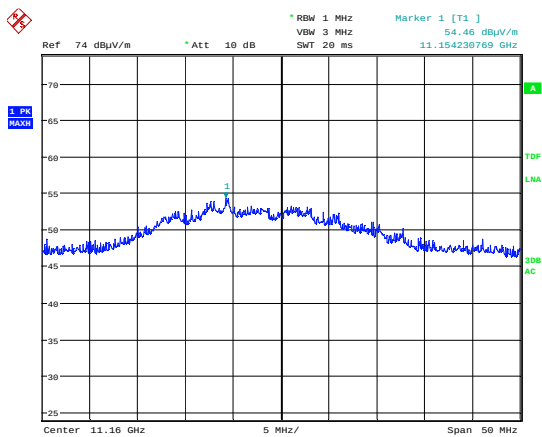
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Radiated Emissions 1-18 GHz, Ch122, 802.11n HT80, MIMO, VP



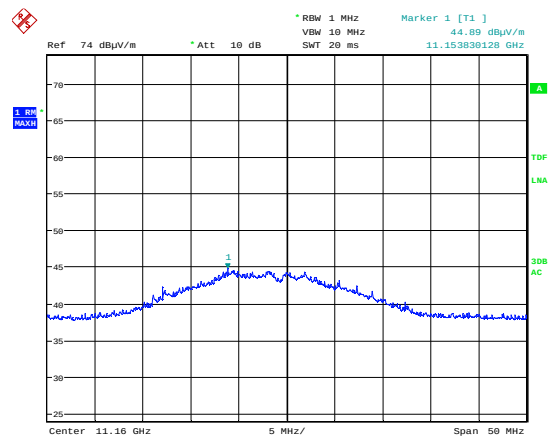
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HP



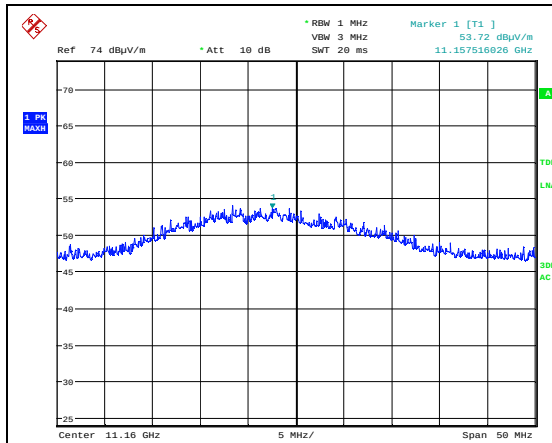
Date: 8.MAR.2023 10:33:25

Emissions 11160 MHz, Ch116, 802.11a 6M, Max: Ant1, VP, Peak

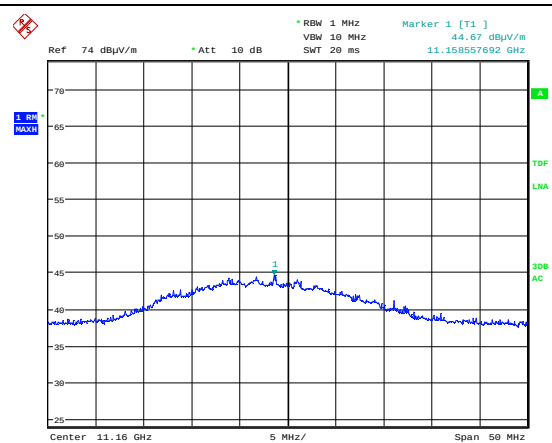


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Av



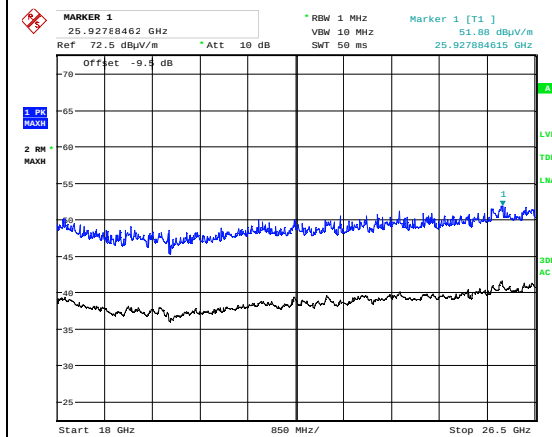
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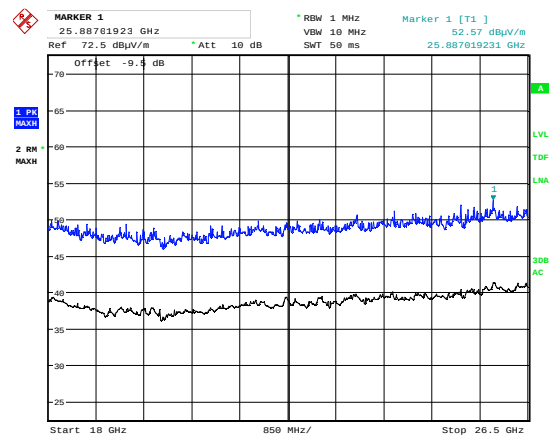
Date: 8.MAR.2023 10:31:14

Emissions 11160 MHz, Ch116, 802.11n HT20 MCS0, Max: Ant1, VP, Peak

Av



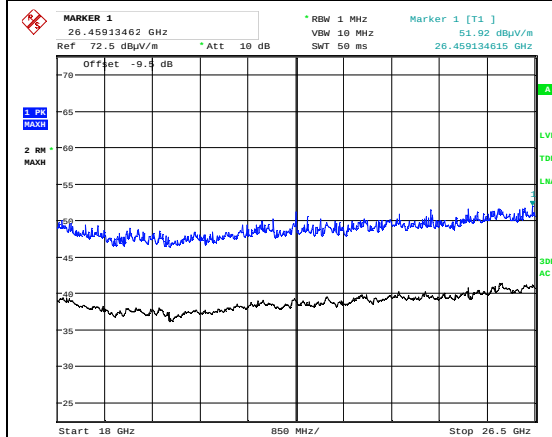
Date: 14.MAR.2023 15:29:14



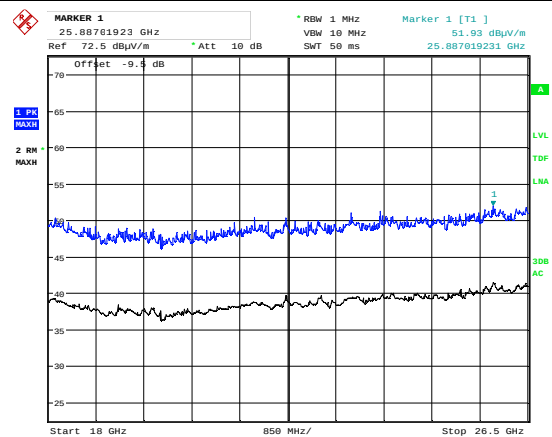
Date: 14.MAR.2023 15:27:03

Emissions 18-26 GHz, Ch056, 802.11n HT20, MIMO, @1m, VP

HP



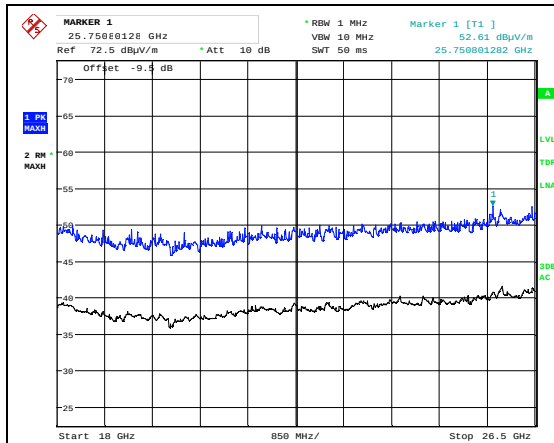
Date: 14.MAR.2023 15:21:42



Date: 14.MAR.2023 15:24:37

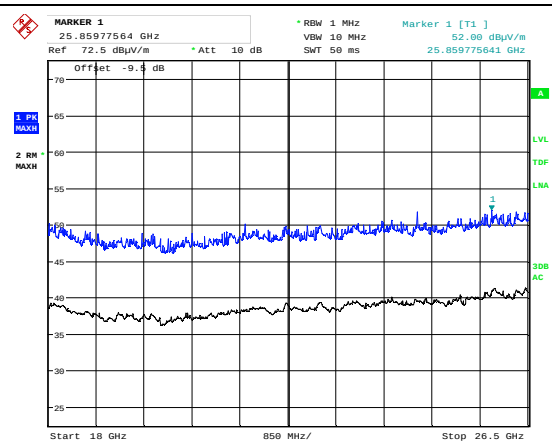
Emissions 18-26 GHz, Ch116, 802.11n HT20, MIMO, @1m, VP

HP



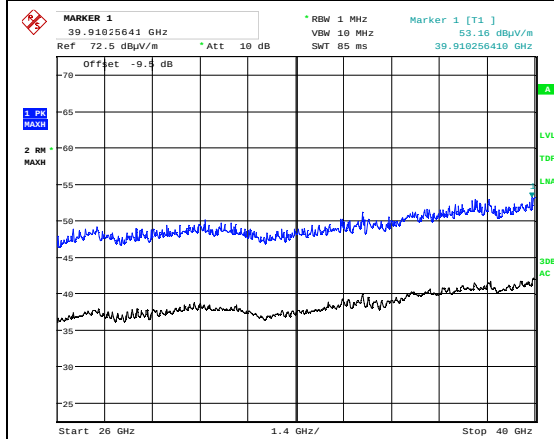
Date: 14.MAR.2023 15:32:36

Emissions 18-26 GHz, Ch157, 802.11n HT20, MIMO, @1m, VP



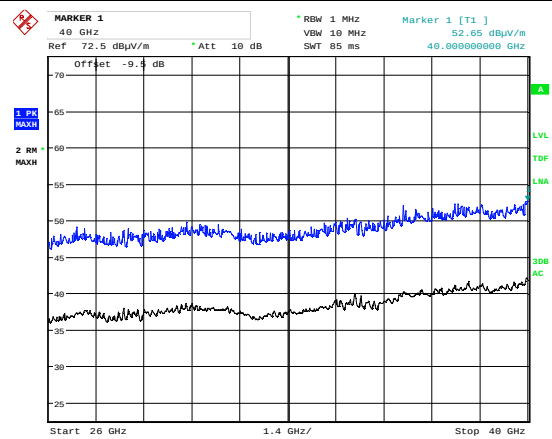
Date: 14.MAR.2023 15:34:48

HP



Date: 14.MAR.2023 14:52:15

Emissions 26-40 GHz, Ch116, 802.11n HT20, MIMO, @1m, VP



Date: 14.MAR.2023 14:54:20

HP

4.9 Dynamic Frequency Selection

FCC 15.407(h)(2)

ISED RSS-247, Issue 3, Clause 6.3

Test Results: Complies

Measurement Data:

	Measured values	
	Frequency Band 2	Frequency Band 3
Carrier Frequency	5280 MHz	5580 MHz
Channel Move Time	2.117 sec	2.136 sec
Non-occupancy Period	> 30 min	> 30 min

The tested EUT is a slave or client device without radar detection capabilities. The handset does not have ad-hoc or direct mode.

The test was performed by setting up a link between the EUT and the base station with DFS on the test channel, and then applying a radar signal at a RF level of -50dBm to the Master device while the channel was monitored on the Spectrum Analyzer.

The EUT moves channel with the Master Device. See plots that illustrate Channel Move Time and Non-Occupancy Time in the frequency bands 5250 - 5350 MHz and 5470 – 5725 MHz.

The test was performed conducted according to KDB 848637.

FCC Radar Type 3 with Pulse Width 10μs, PRI 200μs and 18 pulses per burst was used (FCC 06-96 A1). Only one burst was used for each test since the Access point with DFS detected the radar every time.

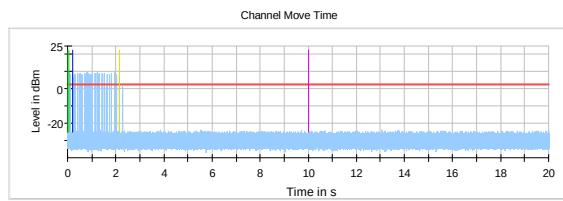
The Access Point with DFS used as companion device for this test was a Linksys WRT3200ACM.

Requirements

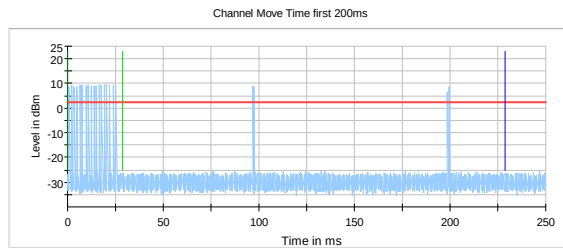
FCC 15.407(h)(2), IC RSS-247, Issue 3, Clause 6.3:

Channel Move Time: After a radar's presence is detected, all transmissions shall cease on the operating channel within 10 seconds. Transmissions during this period shall consist of normal traffic for a maximum of 200 ms after detection of the radar signal. In addition, intermittent management and control signals can be sent during the remaining time to facilitate vacating the operating channel.

Non-occupancy Period: A channel that has been flagged as containing a radar system, either by a channel availability check or in-service monitoring, is subject to a non-occupancy period of at least 30 minutes. The non-occupancy period starts at the time when the radar system is detected.

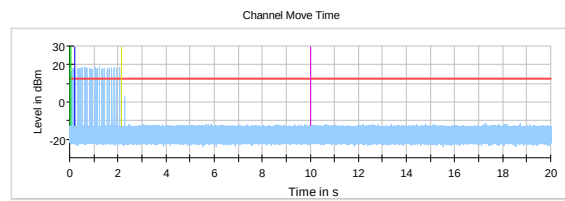


Channel Move Time
Threshold
Start of Radar
Trigger at end of Radar
First 200ms of Channel Closing Tx Time
10sec Channel Move Time Limit
Last measured edge of Channel Closing Tx Time

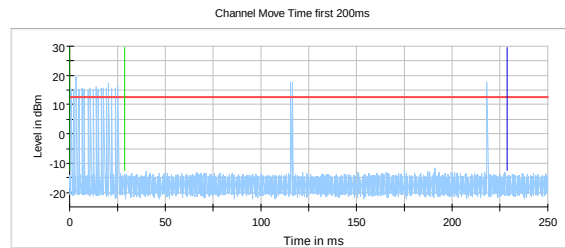


Channel Move Time first 200ms
Threshold
Start of Radar
Trigger at end of Radar
First 200ms of Channel Closing Tx Time

Channel Move Time, Band 2

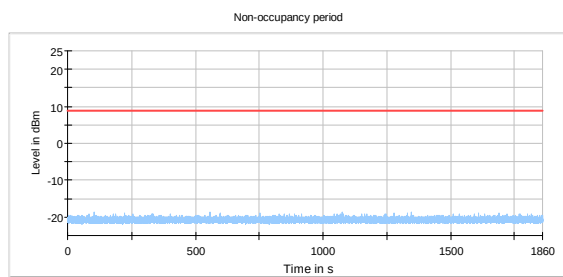


Channel Move Time
Threshold
Start of Radar
Trigger at end of Radar
First 200ms of Channel Closing Tx Time
10sec Channel Move Time Limit
Last measured edge of Channel Closing Tx Time



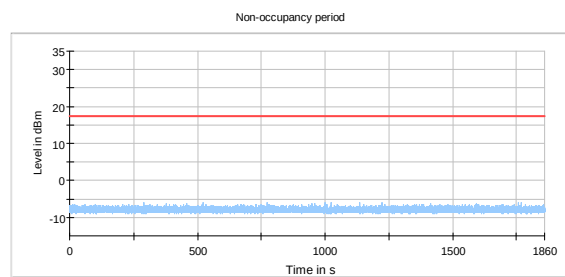
Channel Move Time first 200ms
Threshold
Start of Radar
Trigger at end of Radar
First 200ms of Channel Closing Tx Time

Channel Move Time, Band 3



Non-occupancy period
Threshold

Non-Occupancy Period, Band 2



Non-occupancy period
Threshold

Non-Occupancy Period, Band 3

5 Measurement Uncertainty

Measurement Uncertainty Values		
Test Item		Uncertainty
Output Power		±0.5 dB
Power Spectral Density		±0.5 dB
Out of Band Emissions, Conducted	< 3.6 GHz	±0.6 dB
	> 3.6 GHz	±0.9 dB
Spurious Emissions, Radiated	< 1 GHz	±2.5 dB
	> 1 GHz	±2.2 dB
Emission Bandwidth		±4 %
Power Line Conducted Emissions		+2.9 / -4.1 dB
Spectrum Mask Measurements	Frequency	±5 %
	Amplitude	±1.0 dB
Frequency Error		±0.6 ppm
Temperature Uncertainty		±1 °C

All uncertainty values are expanded standard uncertainty to give a confidence level of 95%, based on coverage factor k=2

6 LIST OF TEST EQUIPMENT

To facilitate inclusion on each page of the test equipment used for related tests, each item of test equipment and ancillaries are identified (numbered) by the Test Laboratory.

No.	Model number	Description	Manufacturer	Ref. no.	Cal. date	Cal. Due
1	FSVA3044	Spectrum Analyzer	Rohde & Schwarz	LR 1808	2022-08	2024-08
2	OSP-B157W8	Peak Power Meters	Rohde & Schwarz	LR 1793	2022-02	2024-01
3	OSP-220	Switch and Control Unit	Rohde & Schwarz	LR 1806	2022-08	2024-08
4	ESU40	Measuring Receiver	Rohde & Schwarz	LR 1639	2023-01	2024-01
5	6810-17B	Attenuator	Suhner	LR 1669	COU	
6	L01G18G1	LowPass Filter (1 GHz)	Microwave Circuits	LR 1768	COU	
7	JB3	BiLog Antenna	Sunol	N-4525	2020-03 2023-04	2023-03 2026-04
8	310	Preamplifier	Sonoma Inst.	LR 1686	2022-08 2023-08	2023-08 2024-08
9	8449A	Pre-amplifier	Hewlett Packard	LR 1322	2022-08 2023-08	2023-08 2024-08
10	3117-PA	Antenna Horn +PreAmp	EMCO	LR 1717	2022-08 2023-08	2023-08 2024-08
11	3115	Antenna Horn	EMCO	LR 1226	2022-12	2027-12
12	Model 638	Antenna Horn	Narda	LR 1480	N/A	
14	Model V637	Antenna Horn	Narda	LR 099	N/A	
15	JS4-20004000	Preamplifier	Miteq	LR 1591	2022-08 2023-08	2023-08 2024-08
16	N0452501	BandStop Filter (5.3 GHz)	Microwave Circuits	LR 1775	COU	
17	N0555983	BandStop Filter (5.5 GHz)	Microwave Circuits	LR 1774	COU	
18	N0257881	BandStop Filter (5.8 GHz)	Microwave Circuits	LR 1764	COU	
19	Model 87 V	Multimeter	Fluke	LR 1597	2023-04	2024-04
20	9205B	DC Power Supply	BK Precision	LR 1846	COU	
21	SF102/1000MM	RF Cable	Suhner	SN 50113/2	COU	
22	SF102/2000MM	RF Cable	Suhner	SN 500100/2	COU	

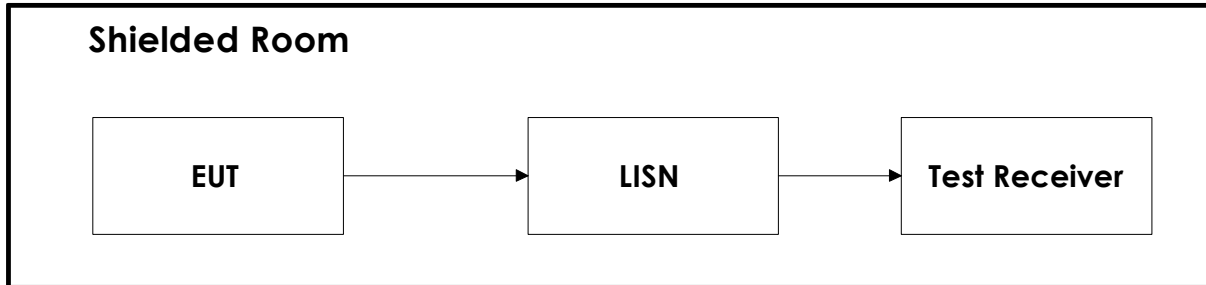
Note: COU – calibrate on use; N/A – Not Applicable

The software listed below has been used for one or more tests.

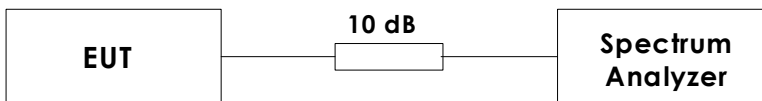
No.	Manufacturer	Name	Version	Comment
1	Rohde & Schwarz	EMC32	10.50	EMC test software
2	Rohde & Schwarz	EMC32	11.40	Radio test software
3	Nemko	RSPlot	1.0.8.0	Screenshots from R&S Spectrum Analyzers

7 BLOCK DIAGRAM

7.1 Power Line Conducted Emission

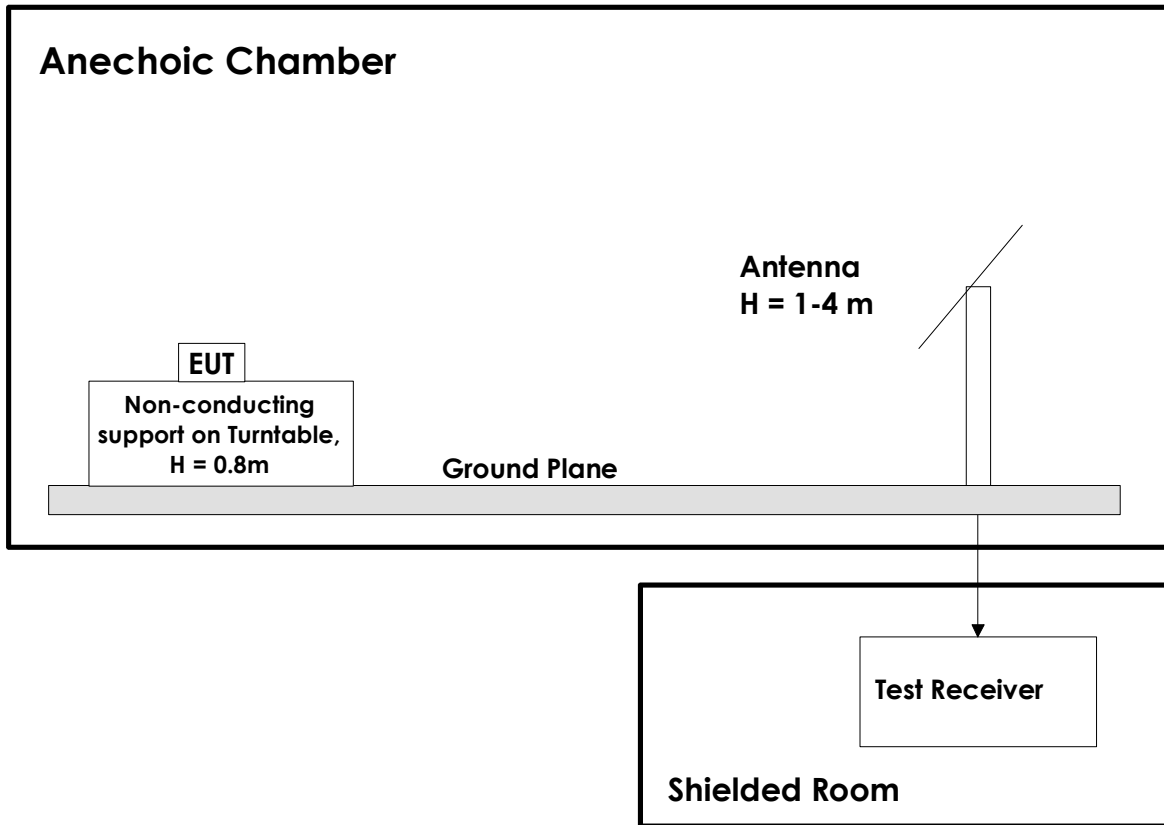


7.2 Conducted Tests



This test set-up is used for all Conducted tests. For the Frequency Stability test the EUT was placed in a climatic chamber.

7.3 Test Site Radiated Emission



This test setup is used for all radiated emissions tests. Measuring distance is 3m for all frequencies.

Emissions above 1 GHz are measured with a Spectrum Analyzer and Horn Antenna.

All measurements at 1GHz and above were performed with turntable height 1.5m and with the ground plane covered by absorbers.

A pre-amplifier is used for all measurements, and High-Pass filter is used for all harmonics.