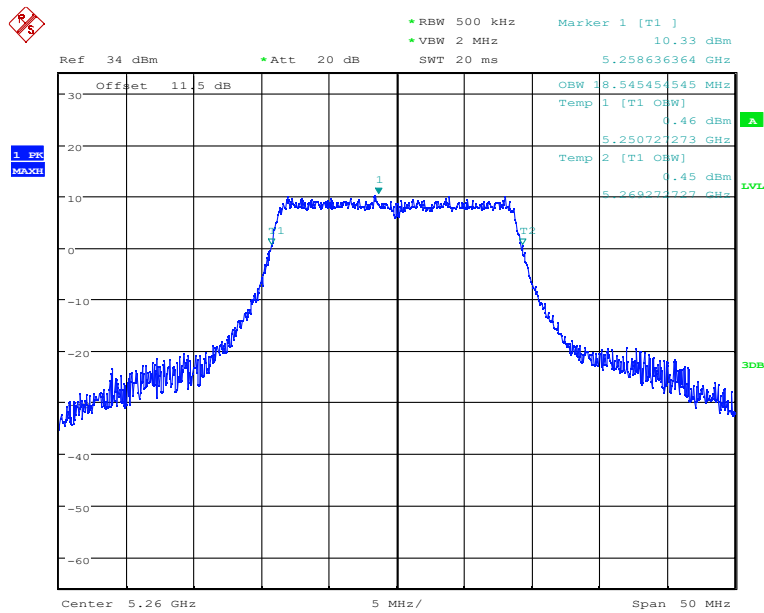
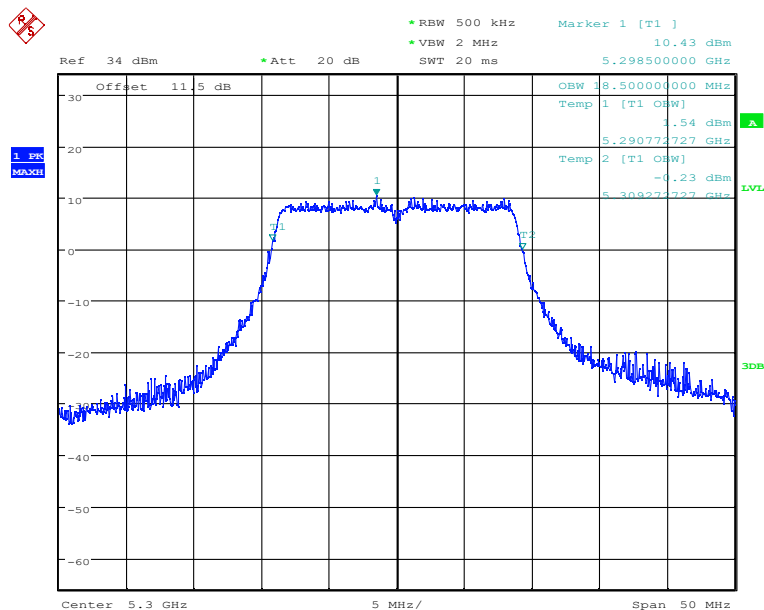




Date: 16.NOV.2021 00:46:33

Fig.108 99% Bandwidth: Ch52,11ac

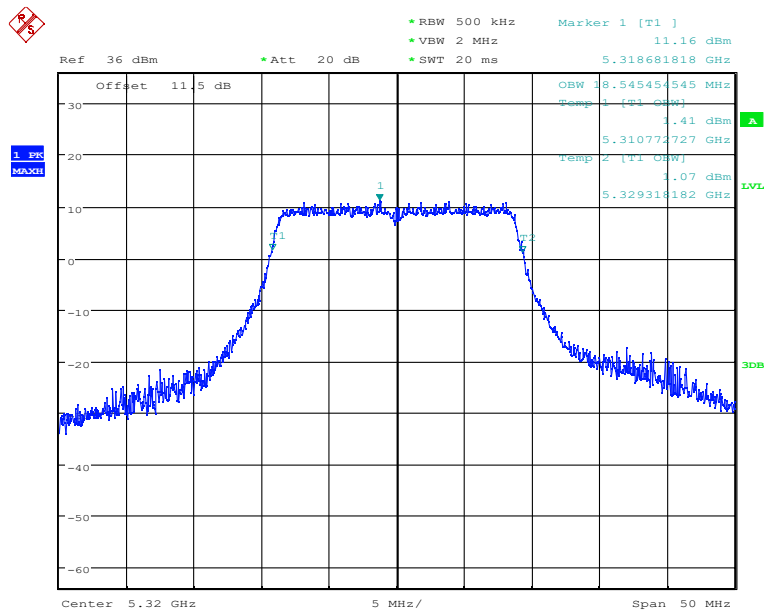


Date: 16.NOV.2021 00:47:18

Fig.109 99% Bandwidth: Ch60,11ac

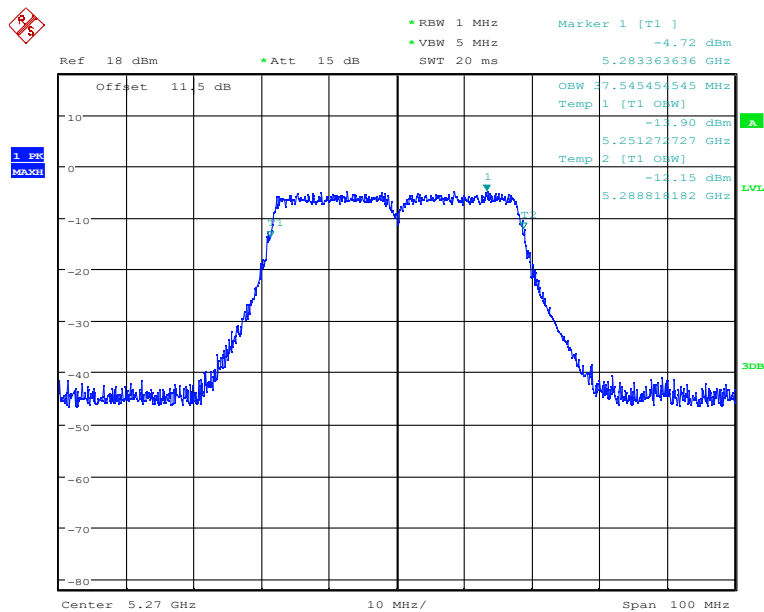
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Date: 16.NOV.2021 00:53:45

Fig.110 99% Bandwidth: Ch64,11ac

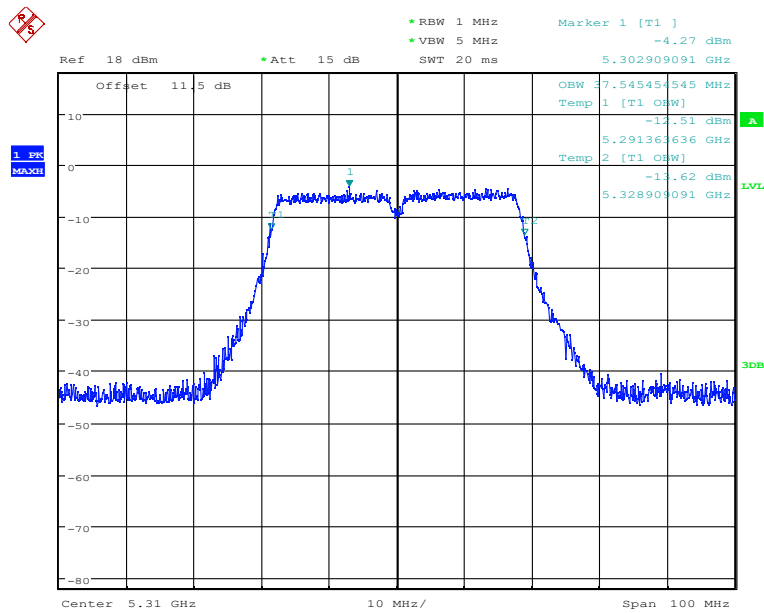


Date: 16.NOV.2021 00:19:55

Fig.111 99% Bandwidth: Ch54,11n (40MHz)

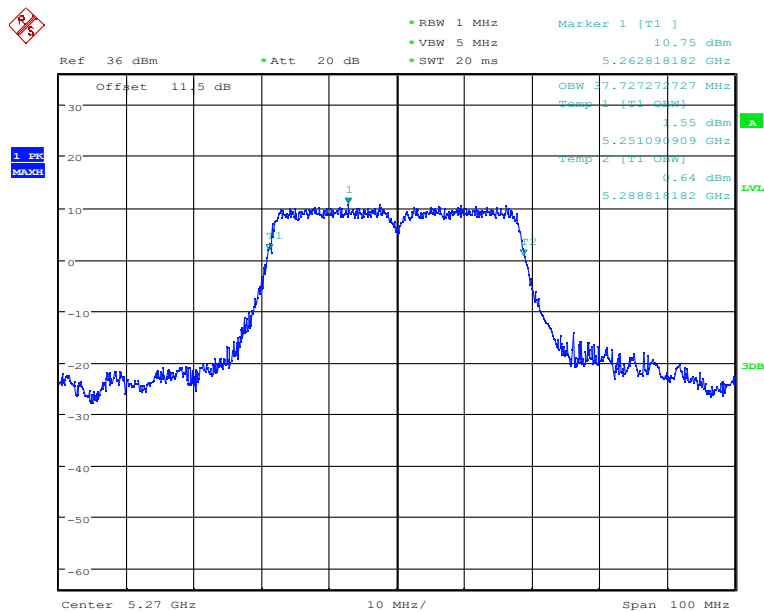
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Date: 16.NOV.2021 00:20:39

Fig.112 99% Bandwidth: Ch62,11n (40MHz)

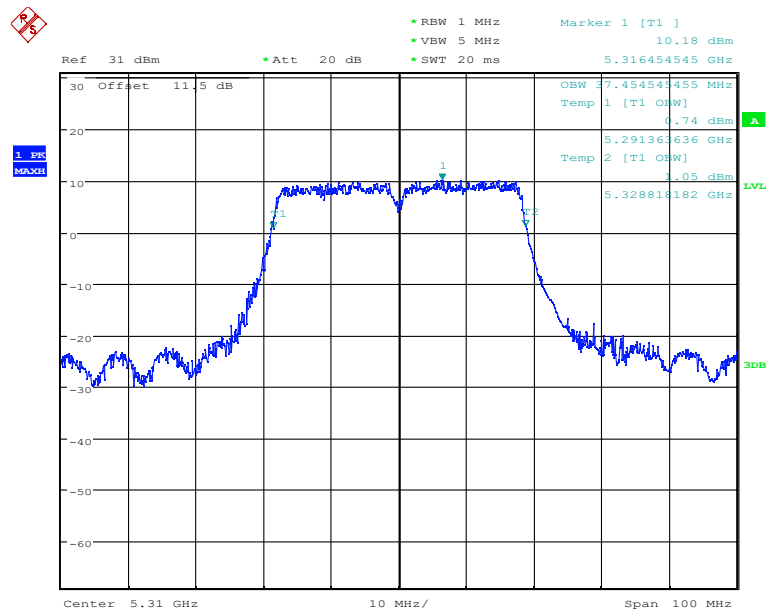


Date: 16.NOV.2021 00:55:17

Fig.113 99% Bandwidth: Ch54,11ac (40MHz)

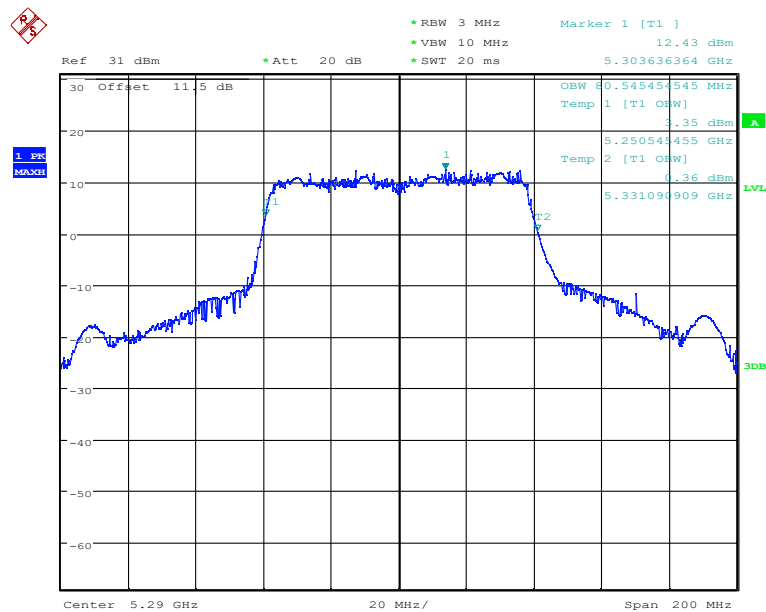
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Date: 16.NOV.2021 01:05:41

Fig.114 99% Bandwidth: Ch62,11ac (40MHz)

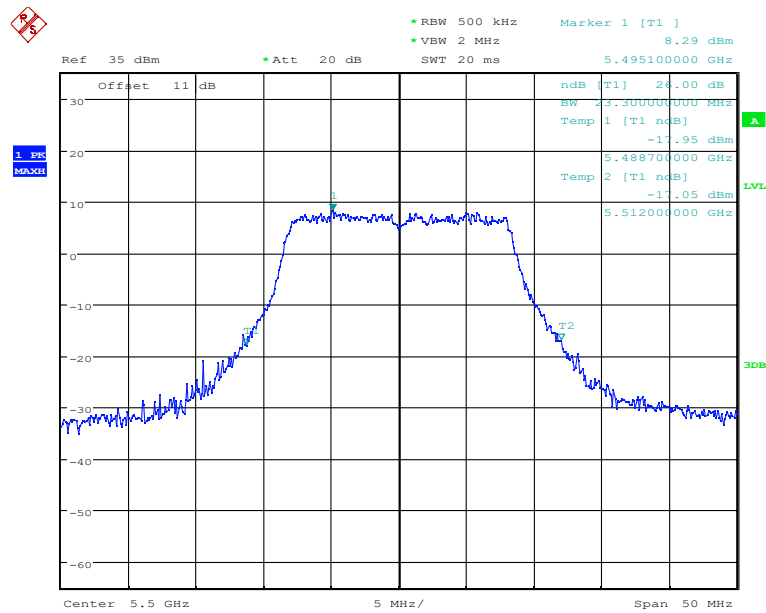


Date: 16.NOV.2021 01:07:09

Fig.115 99% Bandwidth: Ch58,11ac (80MHz)

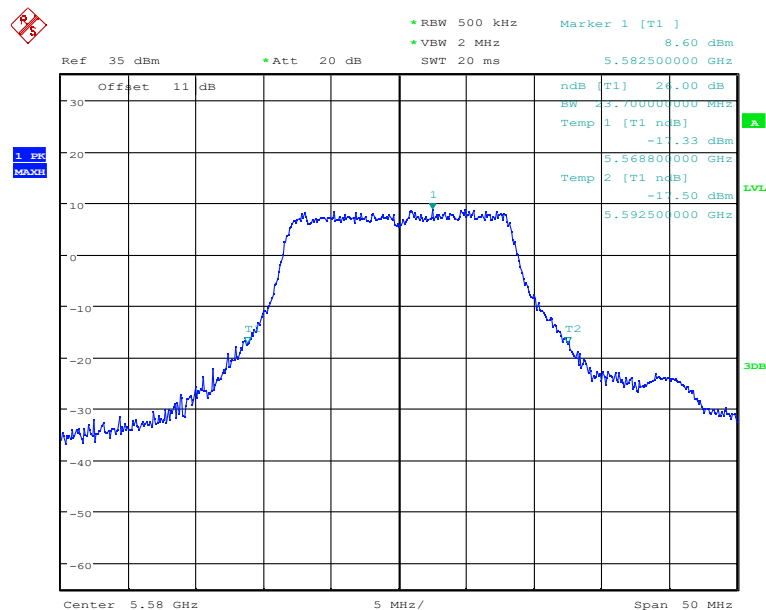
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Date: 15.NOV.2021 02:19:50

Fig.116 26dB Bandwidth: Ch100,11a

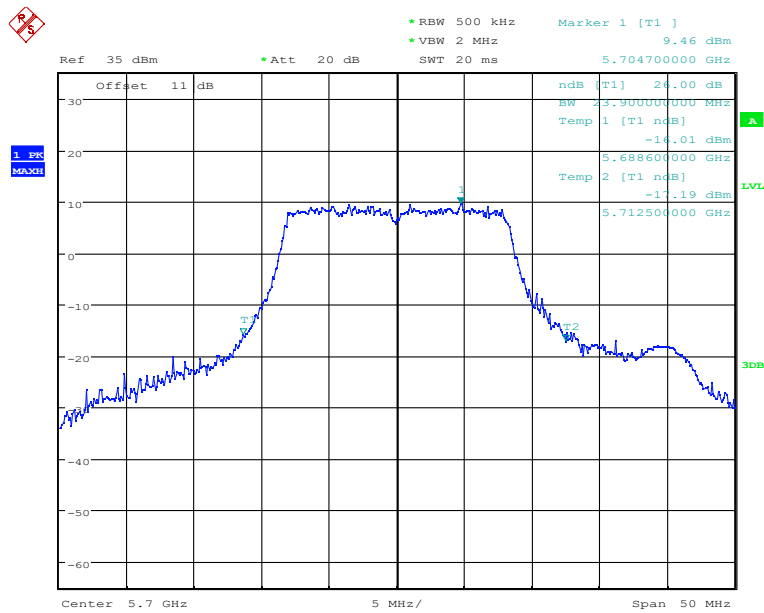


Date: 15.NOV.2021 02:20:55

Fig.117 26dB Bandwidth: Ch116,11a

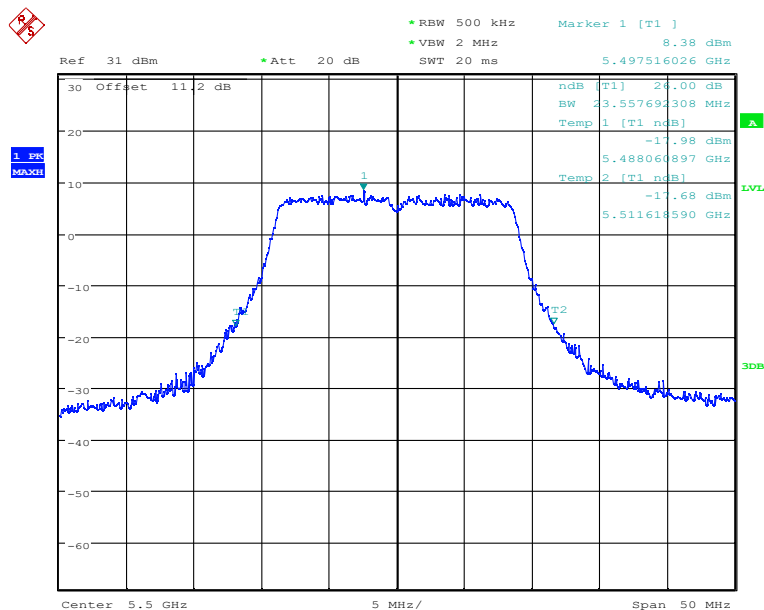
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Date: 15.NOV.2021 02:21:37

Fig.118 26dB Bandwidth: Ch140,11a

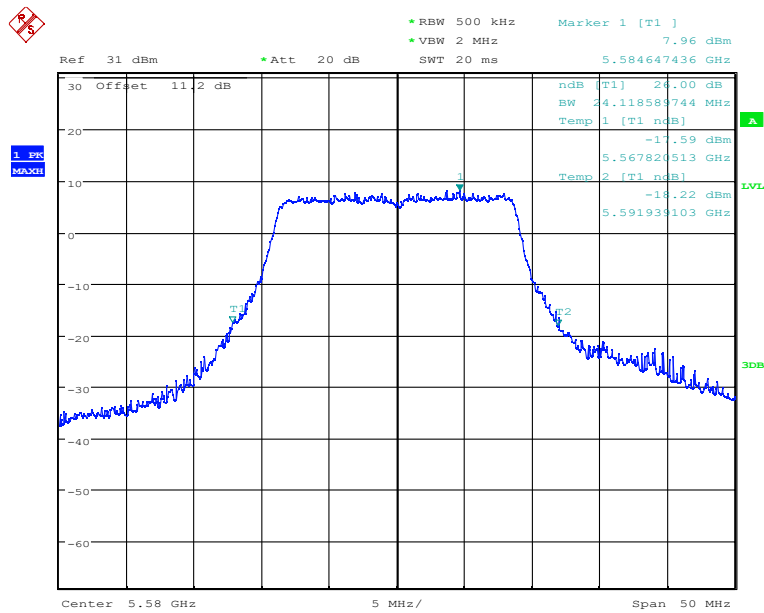


Date: 17.NOV.2021 20:10:09

Fig.119 26dB Bandwidth: Ch100,11n

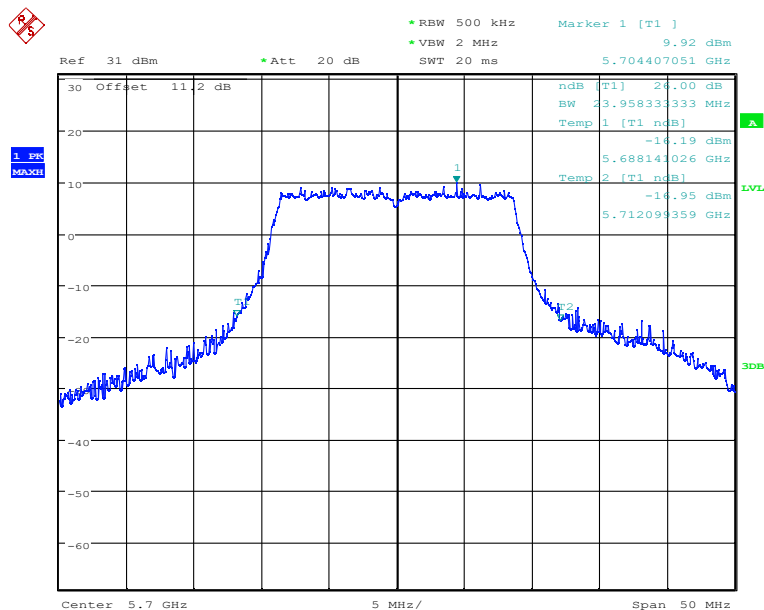
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Date: 17.NOV.2021 20:10:39

Fig.120 26dB Bandwidth: Ch116,11n

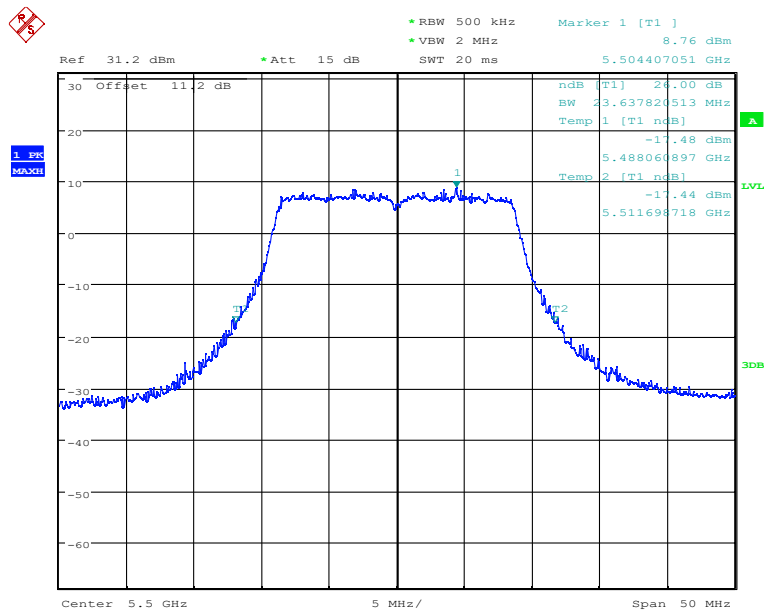


Date: 17.NOV.2021 20:12:40

Fig.121 26dB Bandwidth: Ch140,11n

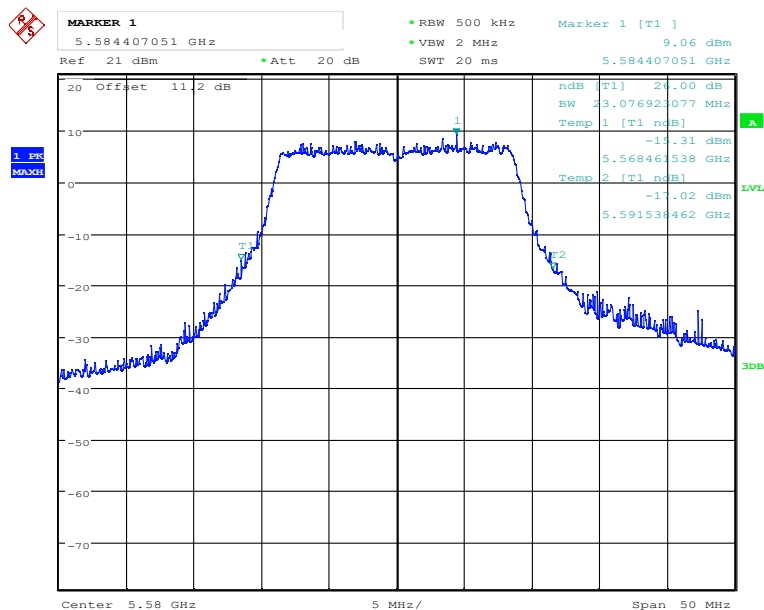
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Date: 17.NOV.2021 20:41:36

Fig.122 26dB Bandwidth: Ch100,11ac

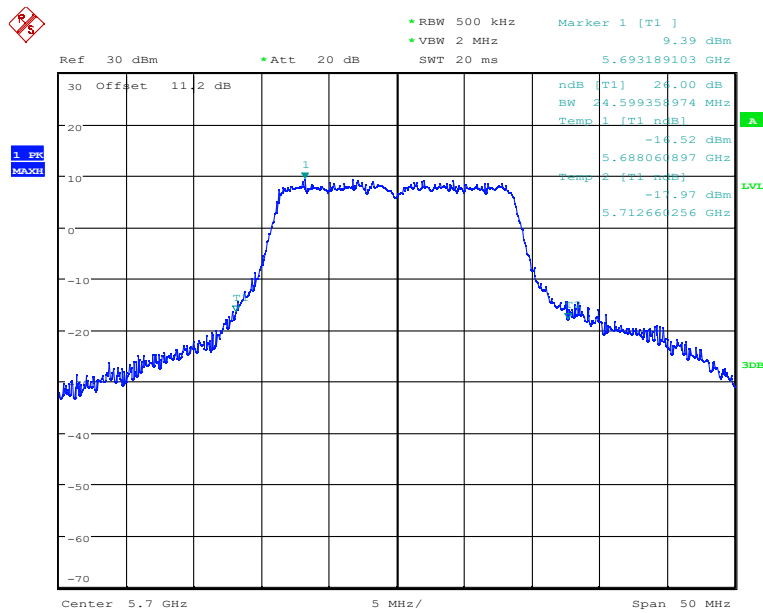


Date: 17.NOV.2021 20:47:26

Fig.123 26dB Bandwidth: Ch116,11ac

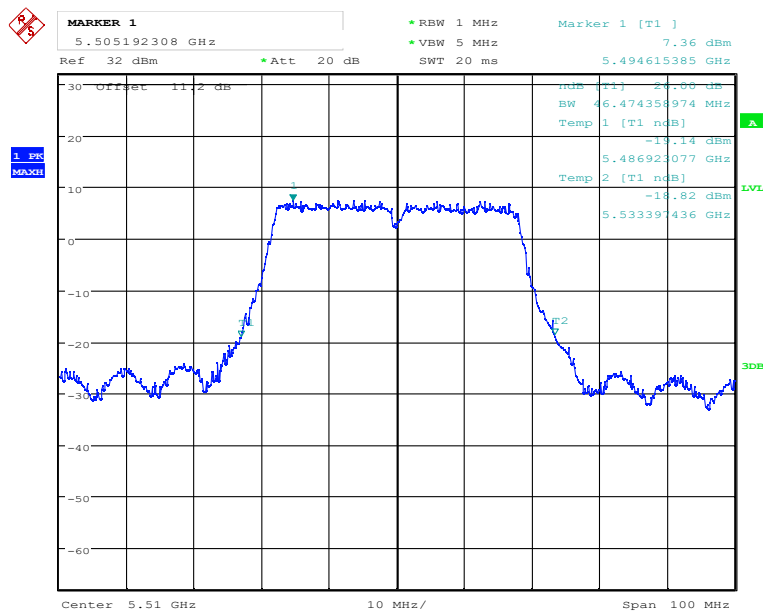
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Date: 17.NOV.2021 20:47:50

Fig.124 26dB Bandwidth: Ch140,11ac

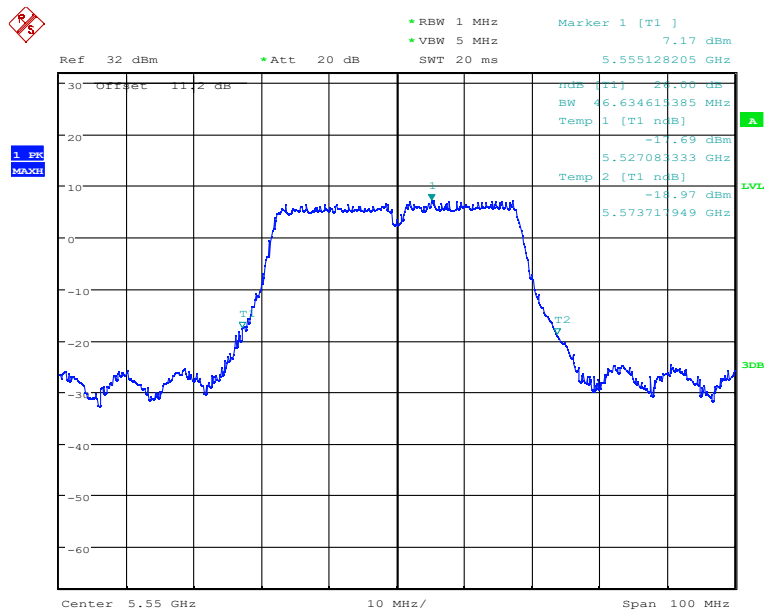


Date: 17.NOV.2021 20:20:13

Fig.125 26dB Bandwidth: Ch102,11n (40MHz)

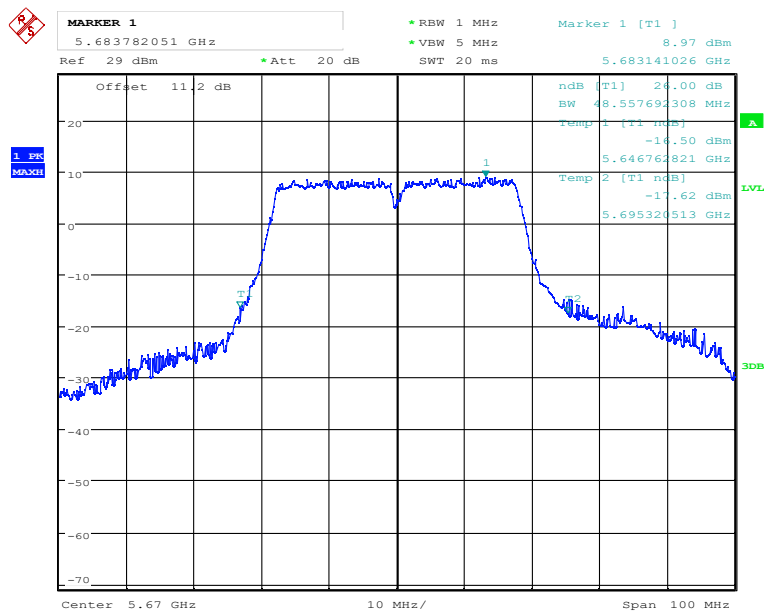
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Date: 17.NOV.2021 20:20:33

Fig.126 26dB Bandwidth: Ch110,11n (40MHz)

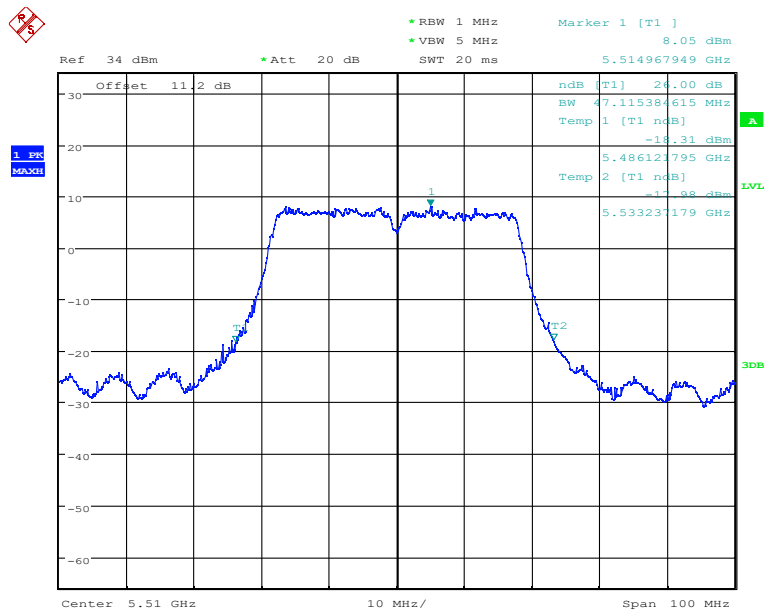


Date: 17.NOV.2021 20:23:11

Fig.127 26dB Bandwidth: Ch134,11n (40MHz)

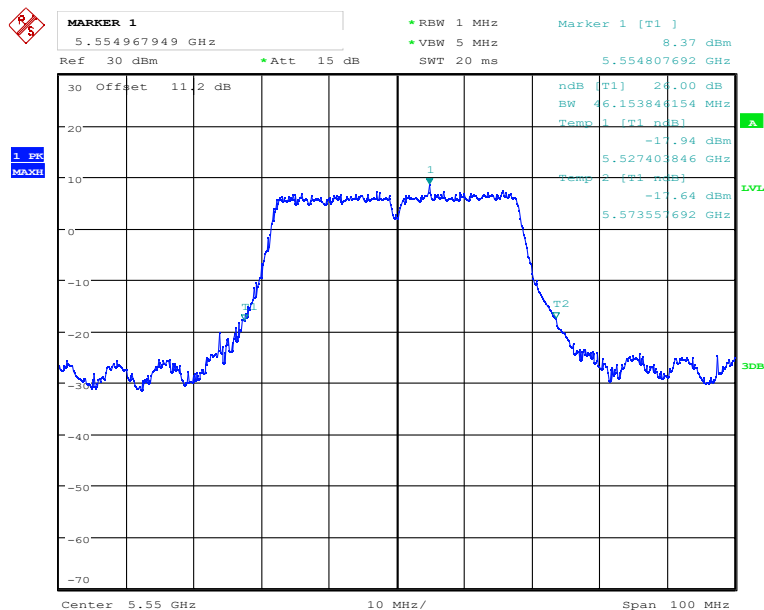
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Date: 17.NOV.2021 20:54:24

Fig.128 26dB Bandwidth: Ch102,11ac (40MHz)

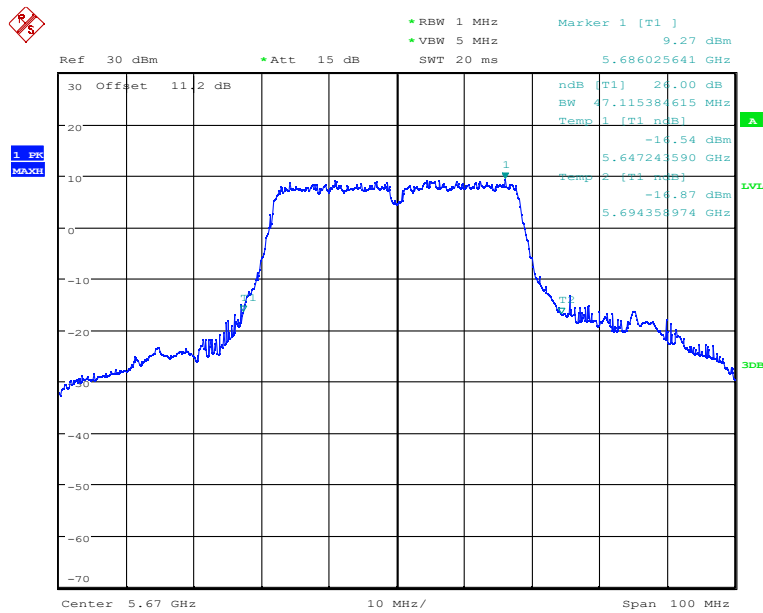


Date: 17.NOV.2021 20:59:45

Fig.129 26dB Bandwidth: Ch110,11ac (40MHz)

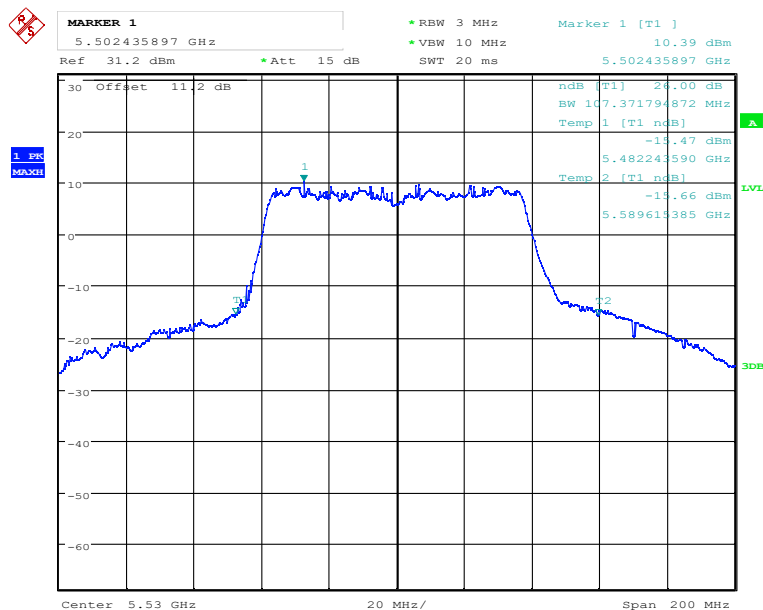
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Date: 17.NOV.2021 21:00:15

Fig.130 26dB Bandwidth: Ch134,11ac (40MHz)

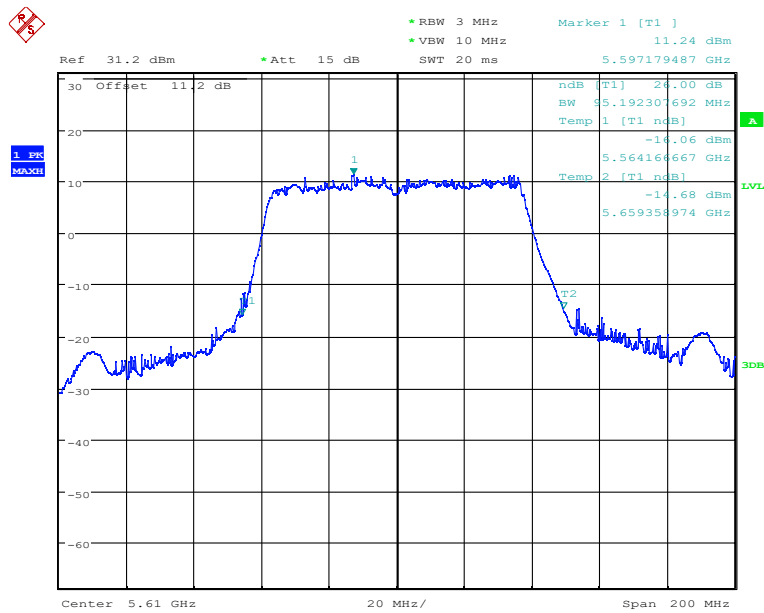


Date: 17.NOV.2021 21:05:26

Fig.131 26dB Bandwidth: Ch106,11ac (80MHz)

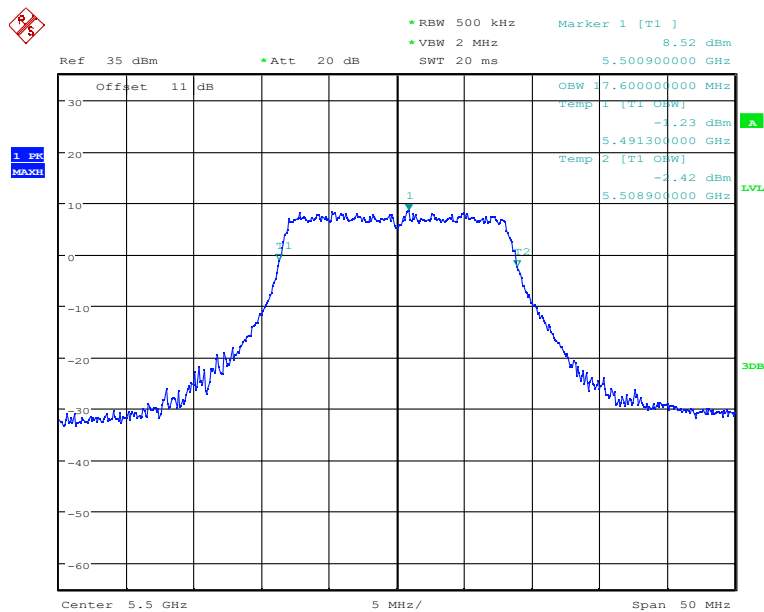
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Date: 17.NOV.2021 21:06:24

Fig.132 26dB Bandwidth: Ch122,11ac (80MHz)

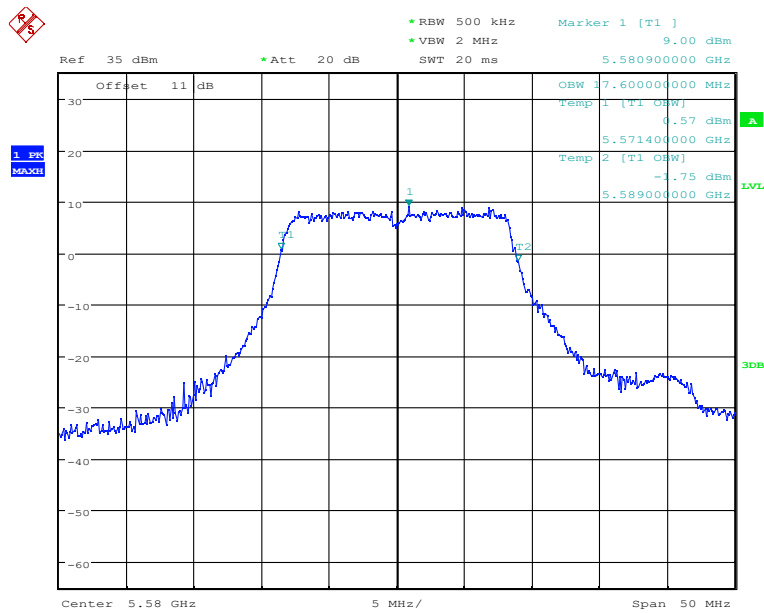


Date: 15.NOV.2021 02:19:40

Fig.133 99% Bandwidth: Ch100,11a

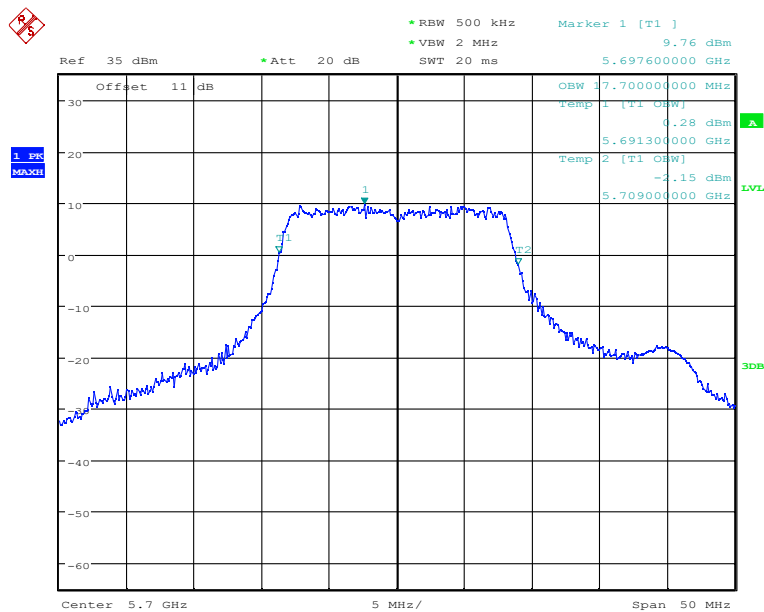
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Date: 15.NOV.2021 02:21:04

Fig.134 99% Bandwidth: Ch116,11a

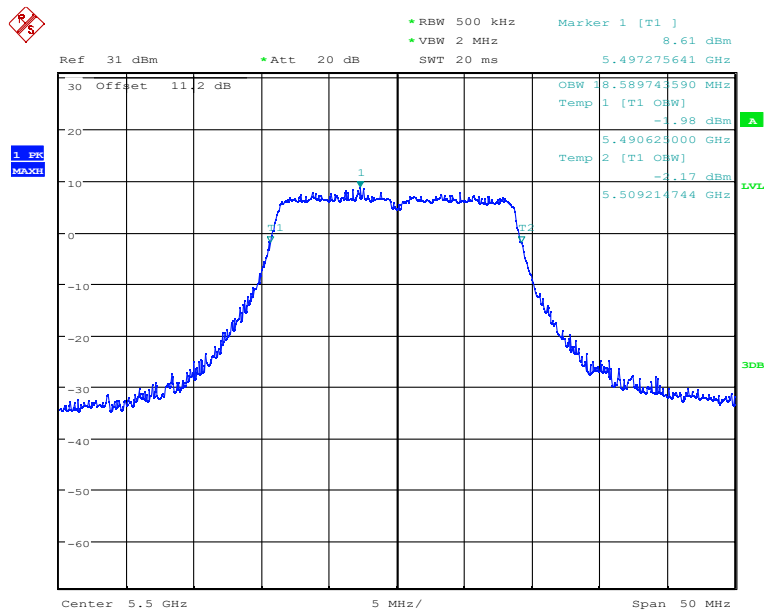


Date: 15.NOV.2021 02:21:28

Fig.135 99% Bandwidth: Ch140,11a

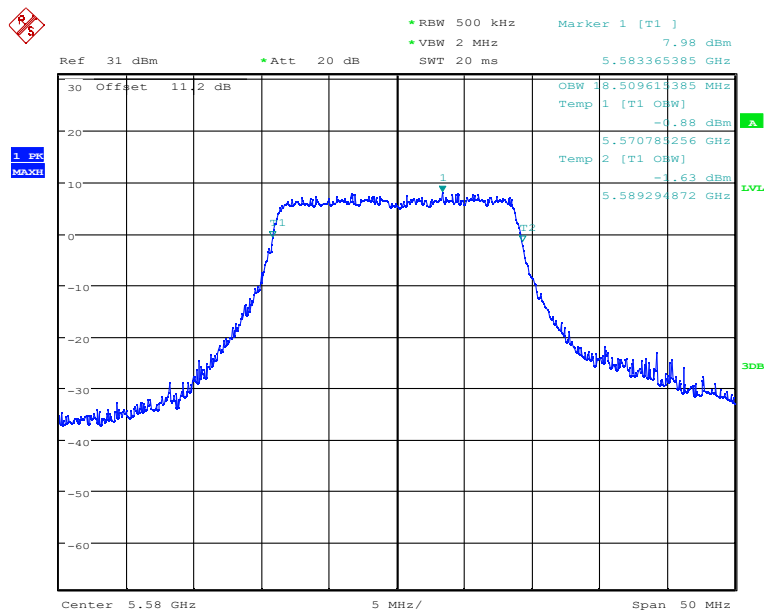
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Date: 17.NOV.2021 20:09:58

Fig.136 99% Bandwidth: Ch100,11n

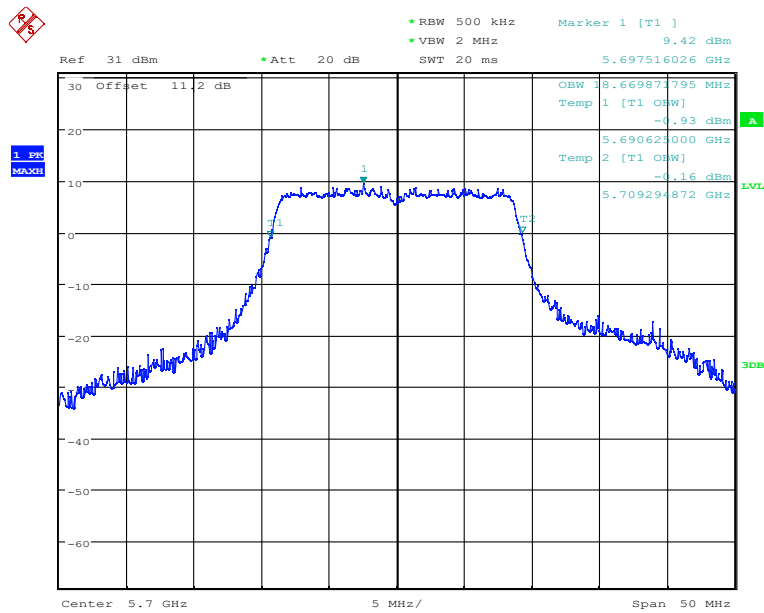


Date: 17.NOV.2021 20:10:47

Fig.137 99% Bandwidth: Ch116,11n

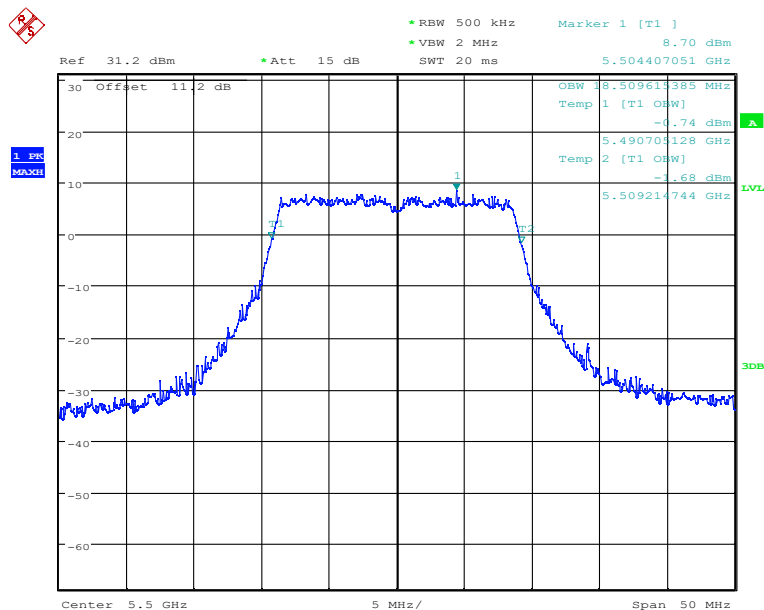
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Date: 17.NOV.2021 20:12:32

Fig.138 99% Bandwidth: Ch140,11n

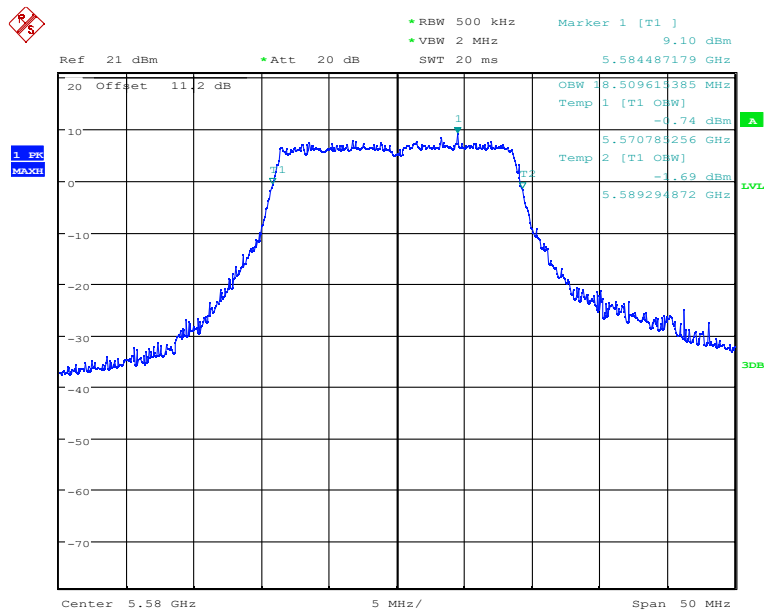


Date: 17.NOV.2021 20:41:43

Fig.139 99% Bandwidth: Ch100,11ac

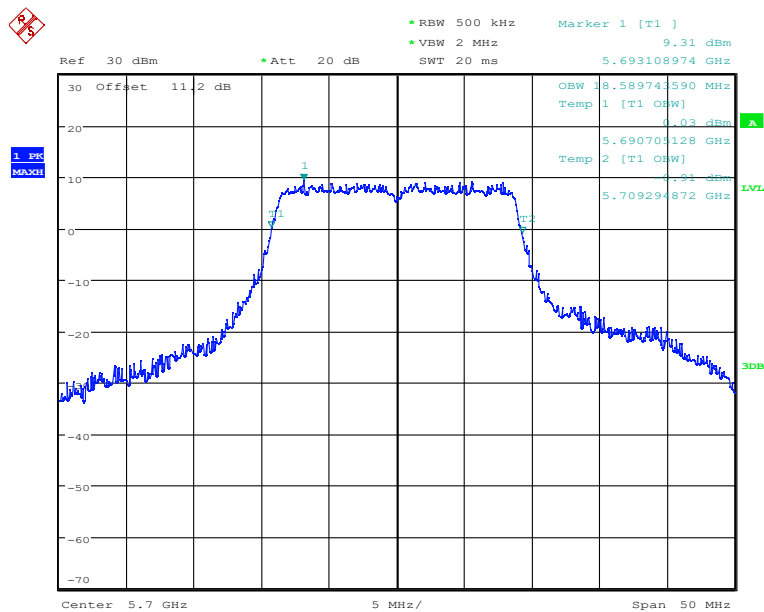
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Date: 17.NOV.2021 20:47:19

Fig.140 99% Bandwidth: Ch116,11ac

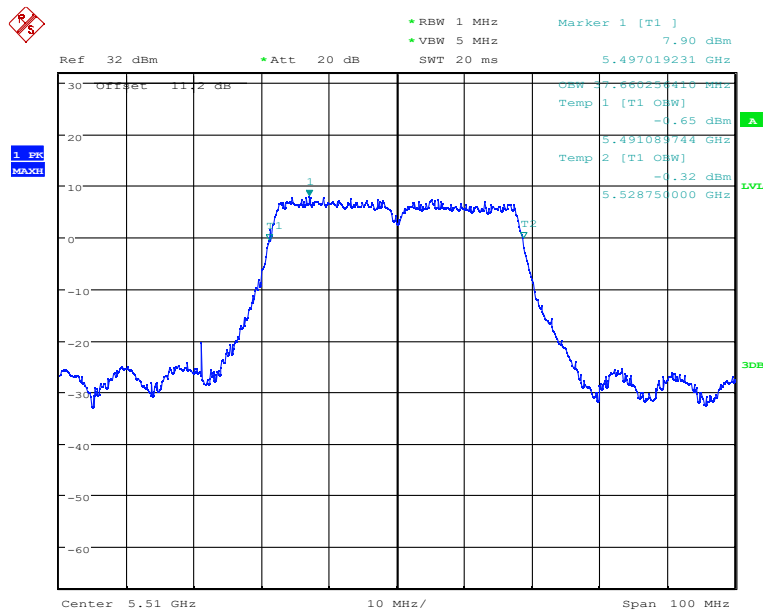


Date: 17.NOV.2021 20:47:59

Fig.141 99% Bandwidth: Ch140,11ac

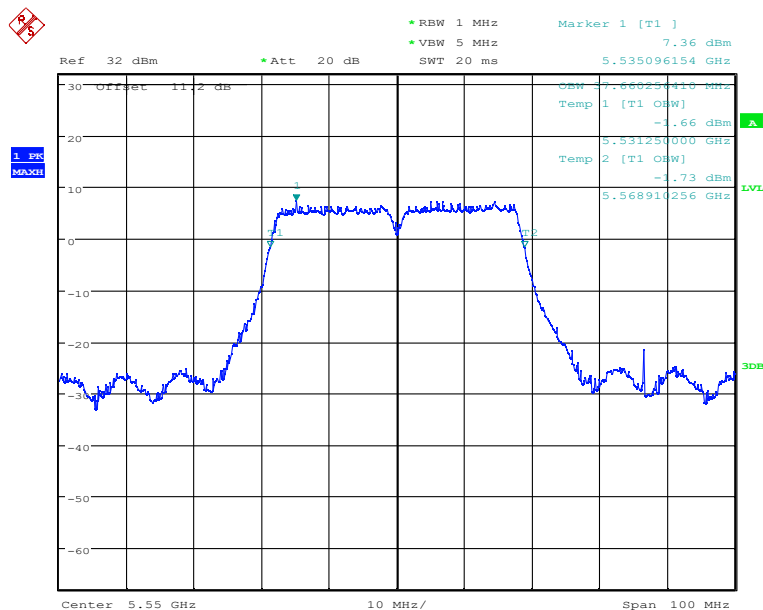
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Date: 17.NOV.2021 20:20:05

Fig.142 99% Bandwidth: Ch102,11n (40MHz)

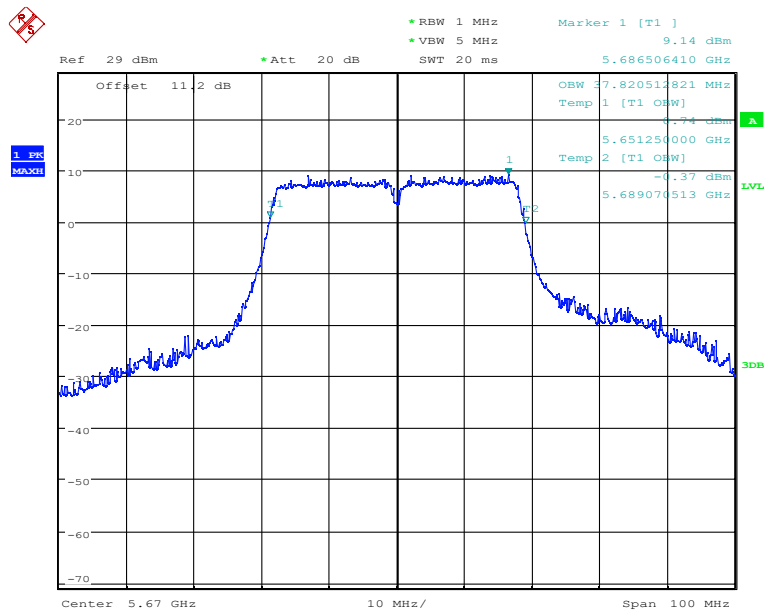


Date: 17.NOV.2021 20:20:42

Fig.143 99% Bandwidth: Ch110,11n (40MHz)

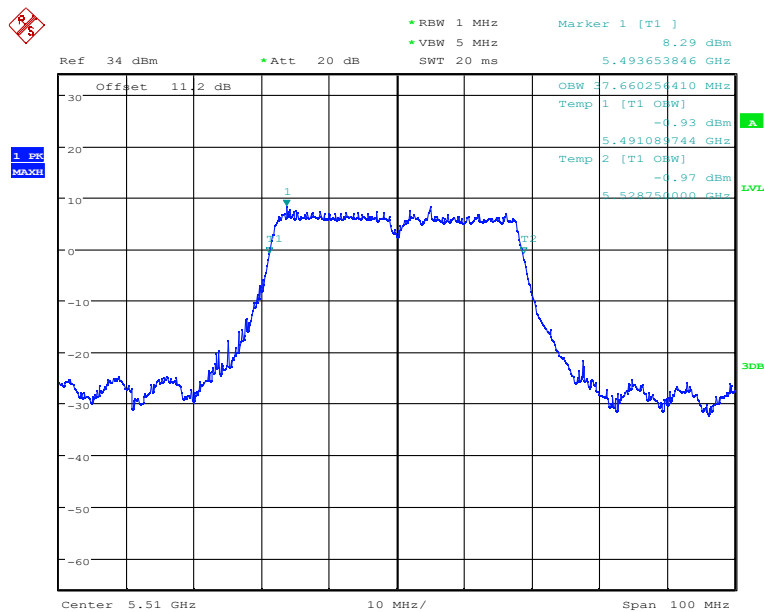
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Date: 17.NOV.2021 20:23:00

Fig.144 99% Bandwidth: Ch134,11n (40MHz)

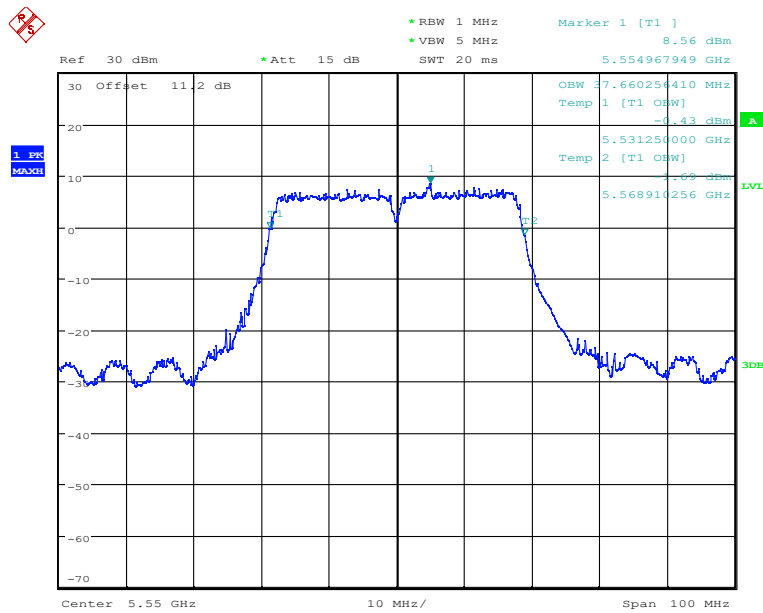


Date: 17.NOV.2021 20:54:32

Fig.145 99% Bandwidth: Ch102,11ac (40MHz)

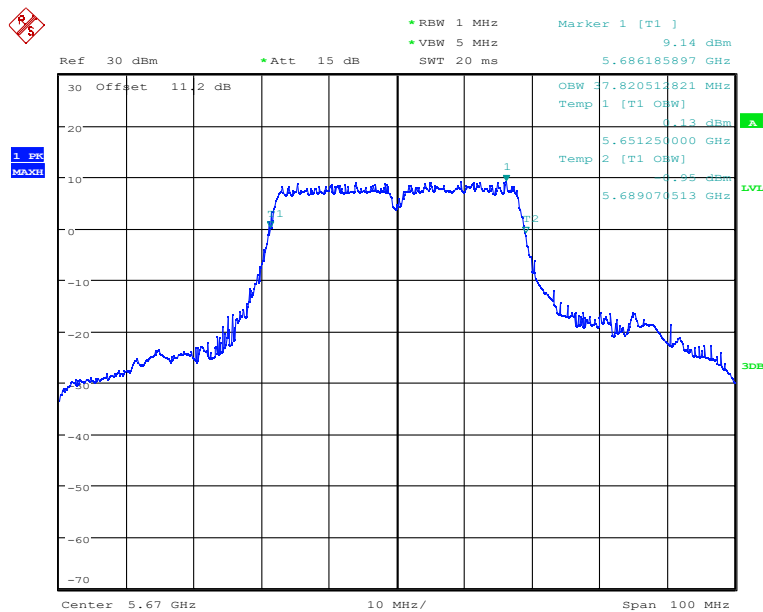
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Date: 17.NOV.2021 20:59:39

Fig.146 99% Bandwidth: Ch110,11ac (40MHz)

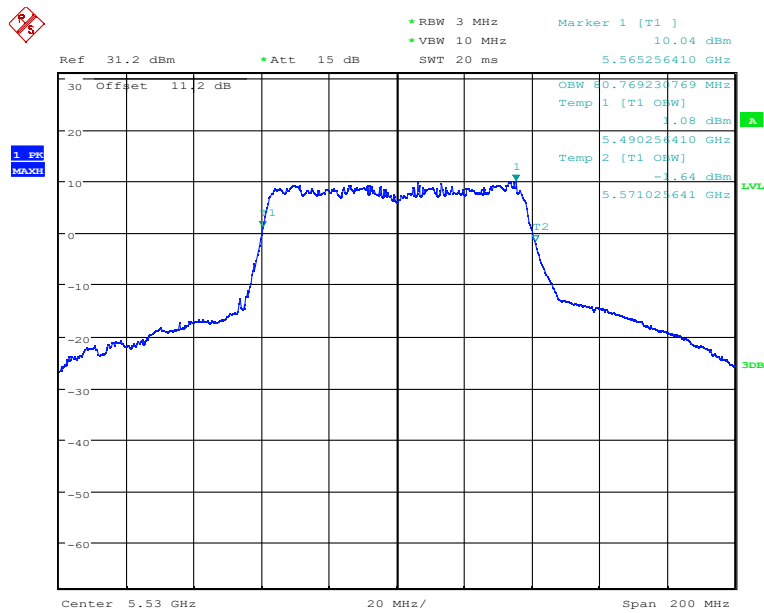


Date: 17.NOV.2021 21:00:21

Fig.147 99% Bandwidth: Ch134,11ac (40MHz)

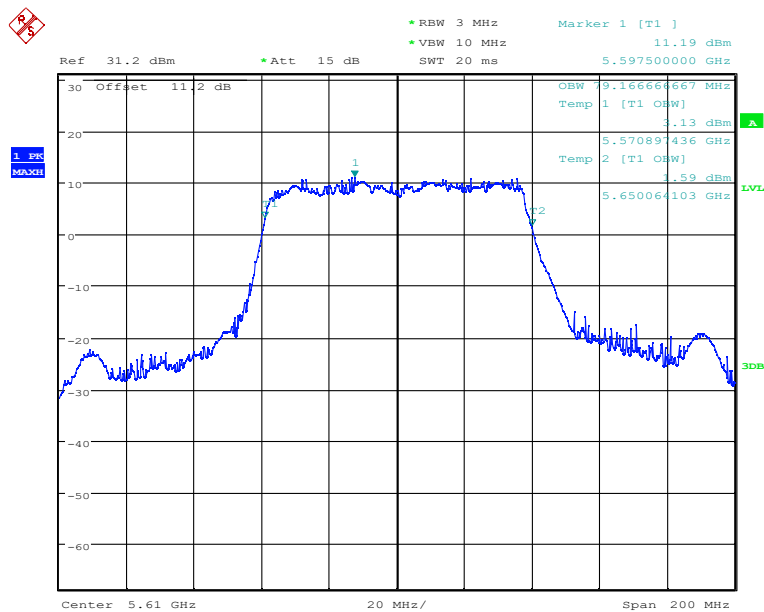
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Date: 17.NOV.2021 21:05:18

Fig.148 99% Bandwidth: Ch106,11ac (80MHz)

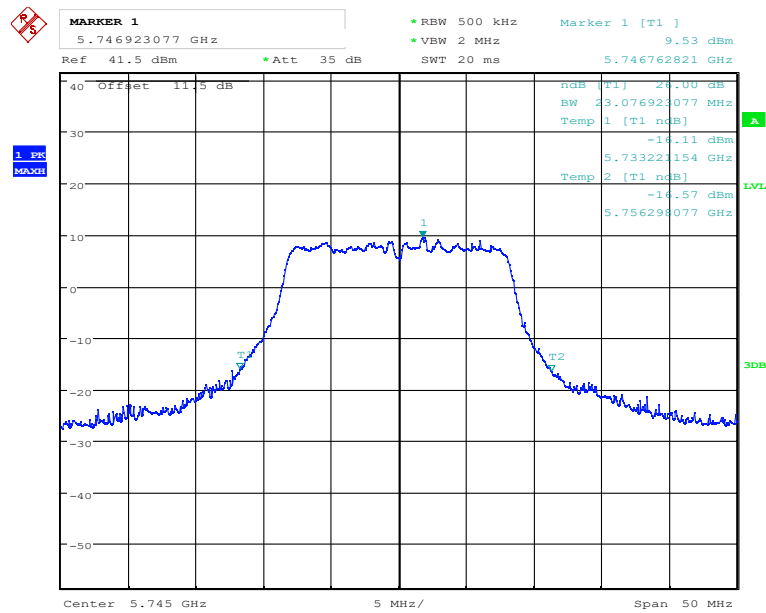


Date: 17.NOV.2021 21:06:30

Fig.149 99% Bandwidth: Ch122,11ac (80MHz)

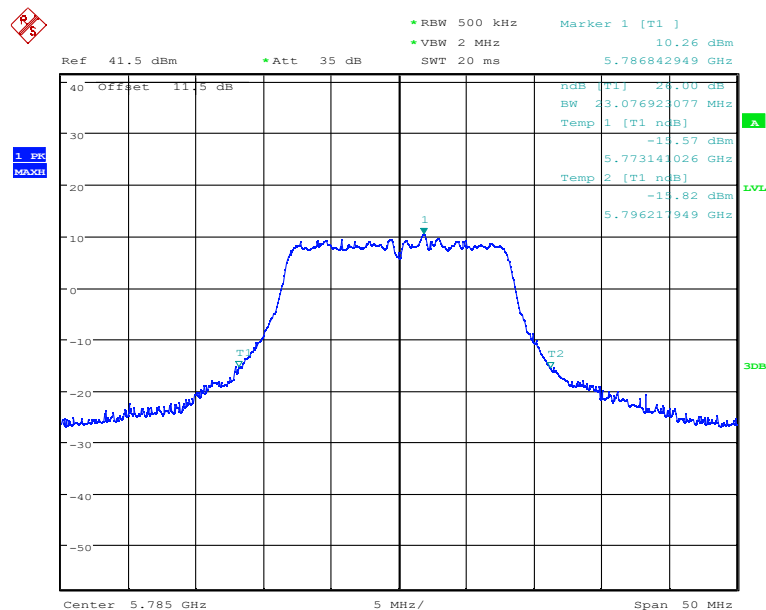
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Date: 10.NOV.2021 06:14:21

Fig.150 26dB Bandwidth: Ch149,11a

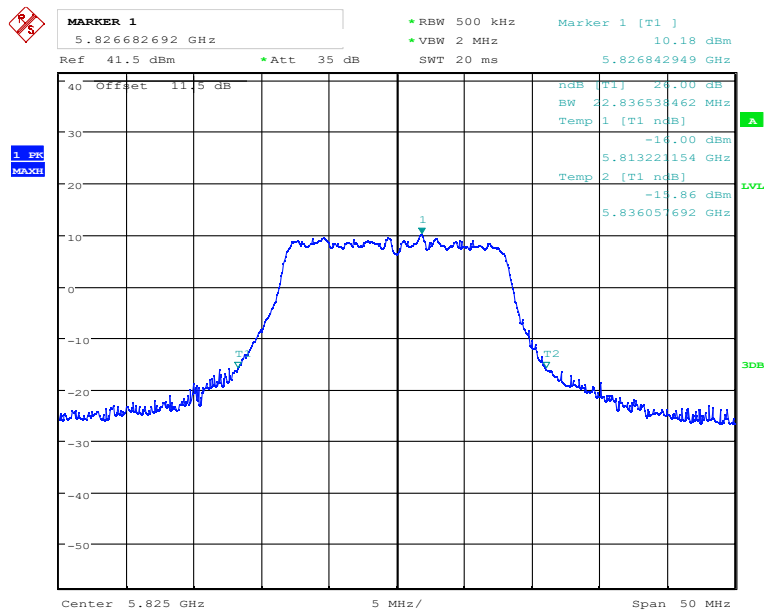


Date: 10.NOV.2021 06:15:24

Fig.151 26dB Bandwidth: Ch157,11a

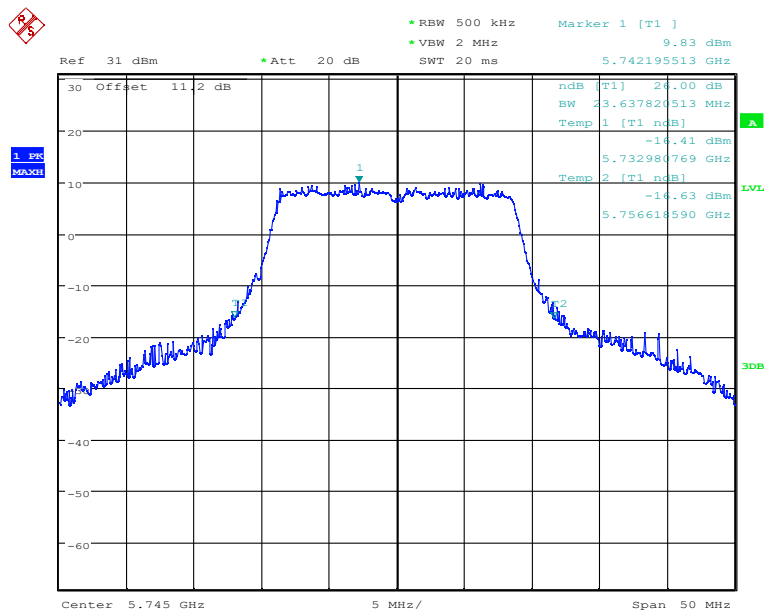
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Date: 10.NOV.2021 06:16:16

Fig.152 26dB Bandwidth: Ch165,11a

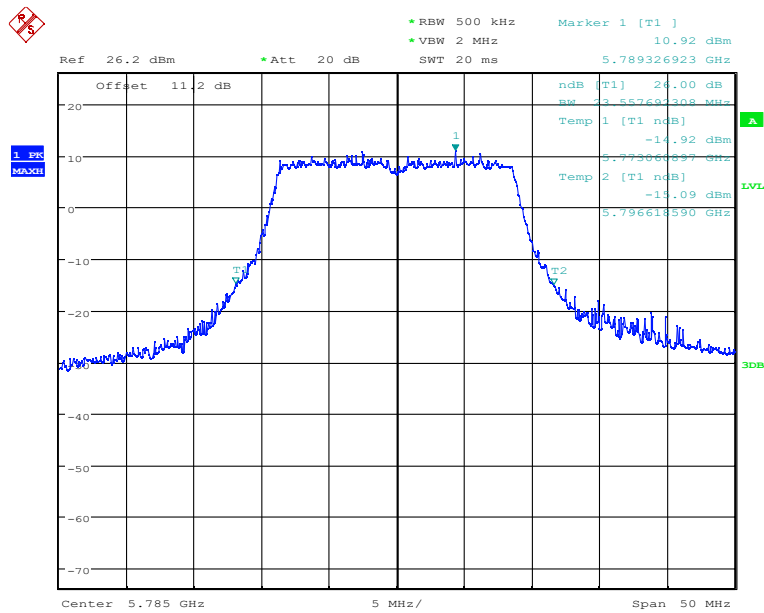


Date: 17.NOV.2021 20:13:11

Fig.153 26dB Bandwidth: Ch149,11n

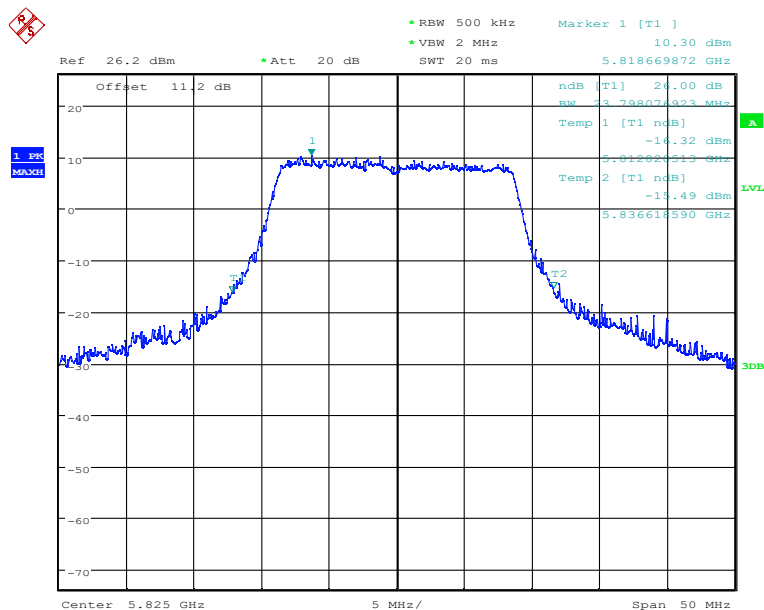
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Date: 17.NOV.2021 20:15:25

Fig.154 26dB Bandwidth: Ch157,11n

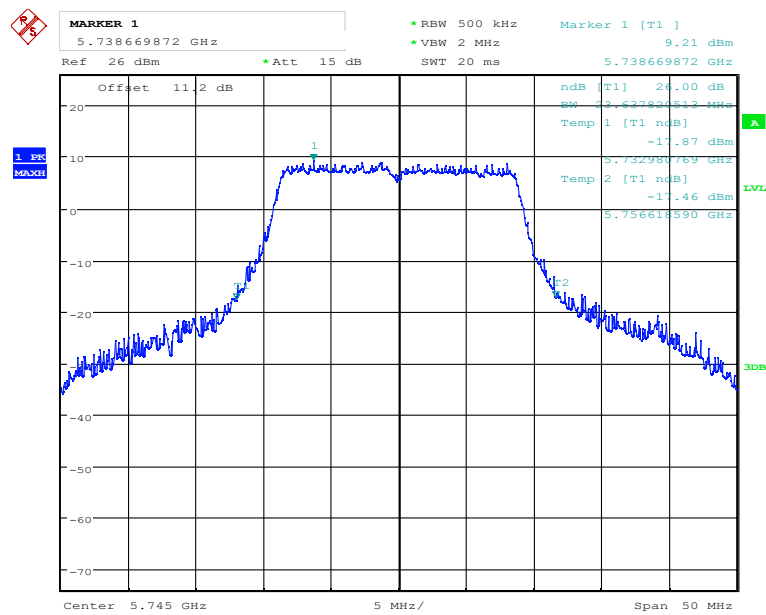


Date: 17.NOV.2021 20:15:47

Fig.155 26dB Bandwidth: Ch165,11n

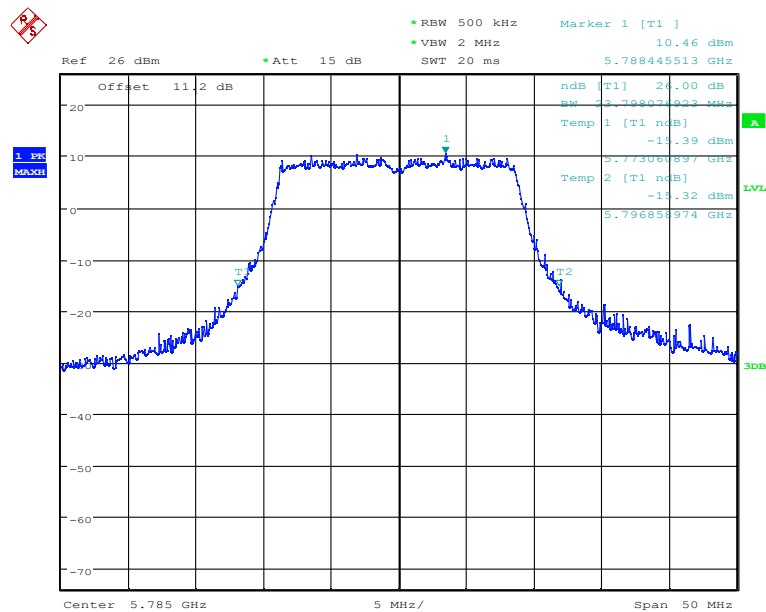
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Date: 17.NOV.2021 20:49:46

Fig.156 26dB Bandwidth: Ch149,11ac

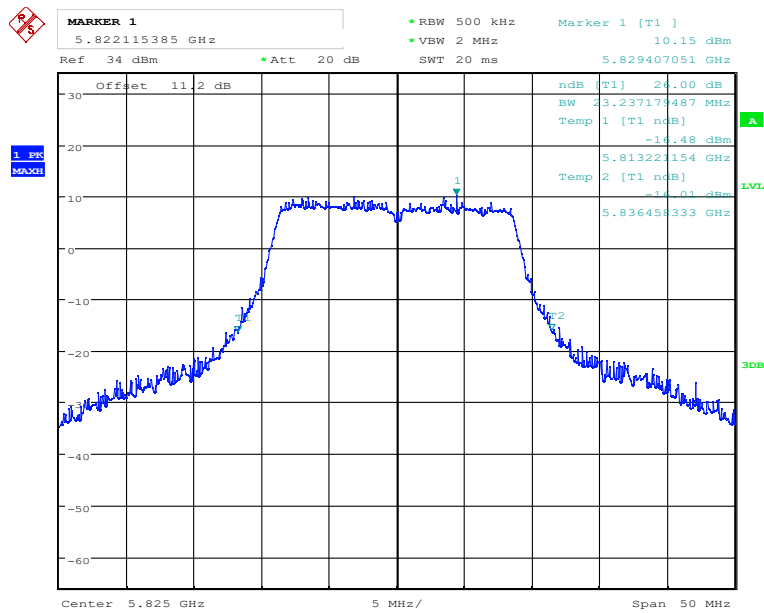


Date: 17.NOV.2021 20:50:31

Fig.157 26dB Bandwidth: Ch157,11ac

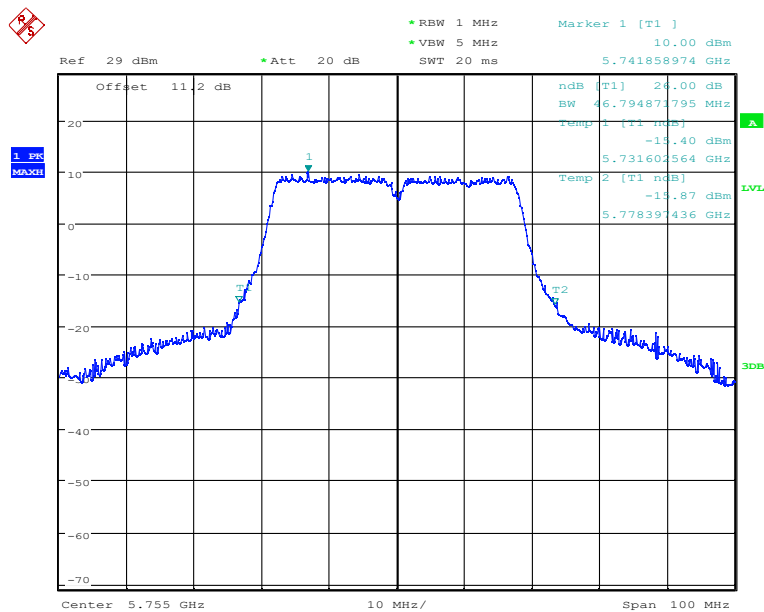
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Date: 17.NOV.2021 20:53:18

Fig.158 26dB Bandwidth: Ch165,11ac

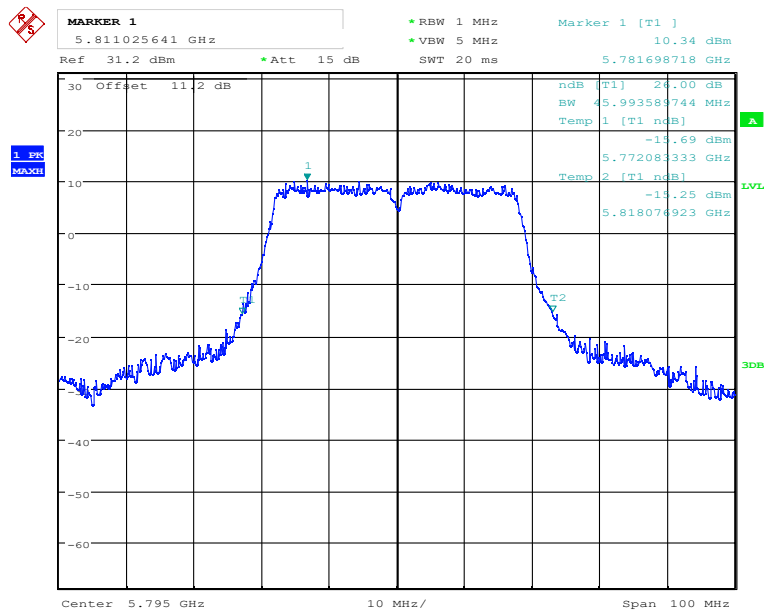


Date: 17.NOV.2021 20:23:51

Fig.159 26dB Bandwidth: Ch151,11n (40MHz)

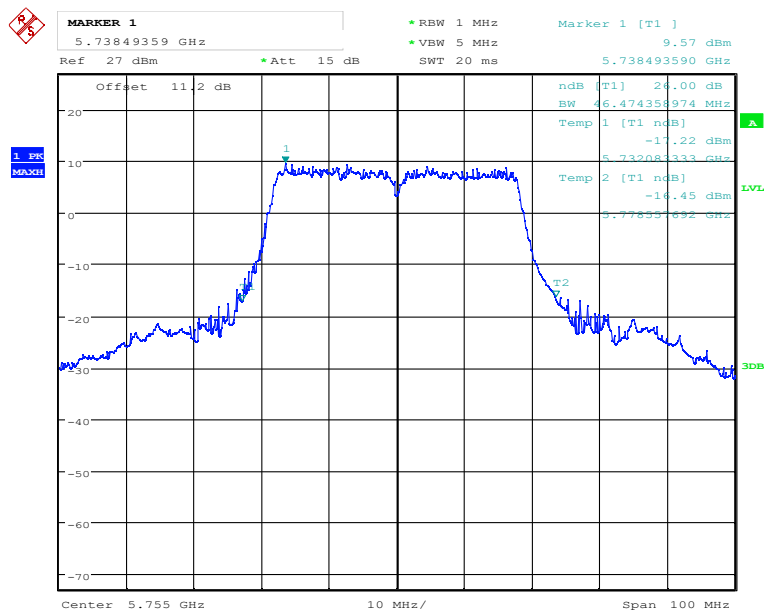
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Date: 17.NOV.2021 20:27:18

Fig.160 26dB Bandwidth: Ch159,11n (40MHz)

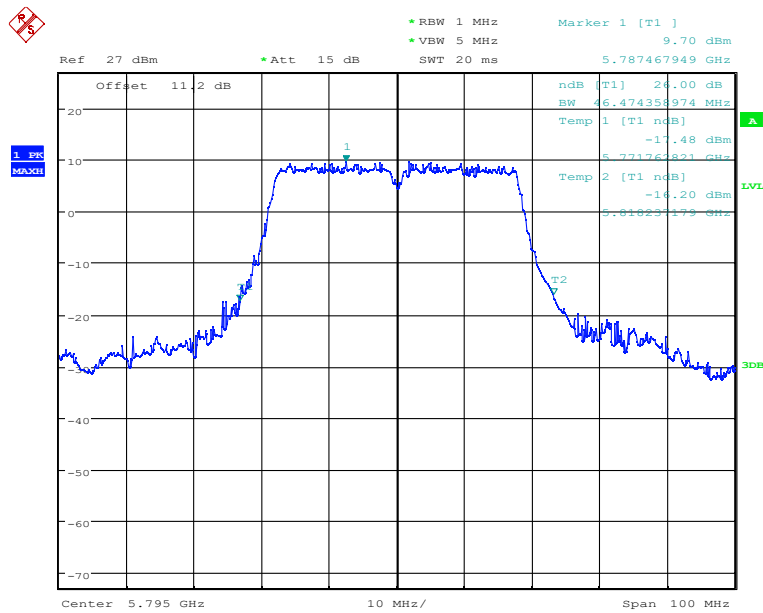


Date: 17.NOV.2021 21:02:33

Fig.161 26dB Bandwidth: Ch151,11ac (40MHz)

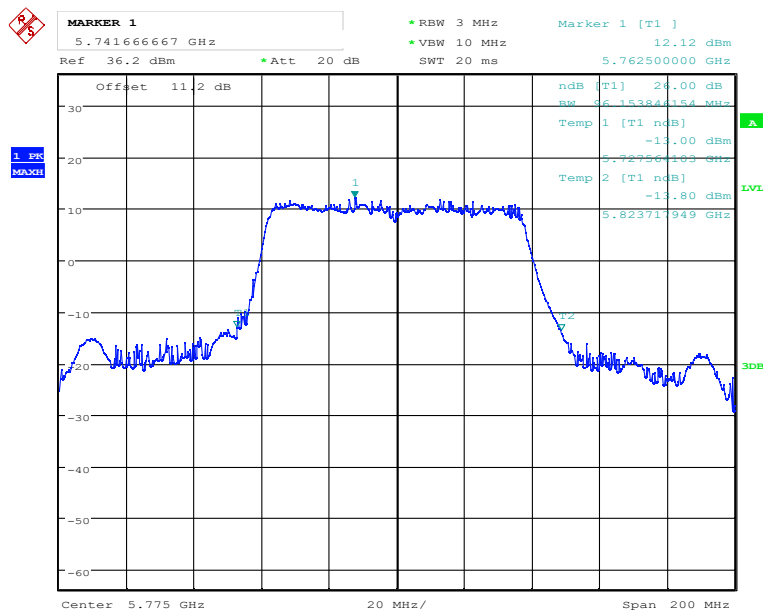
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Date: 17.NOV.2021 21:02:53

Fig.162 26dB Bandwidth: Ch159,11ac (40MHz)

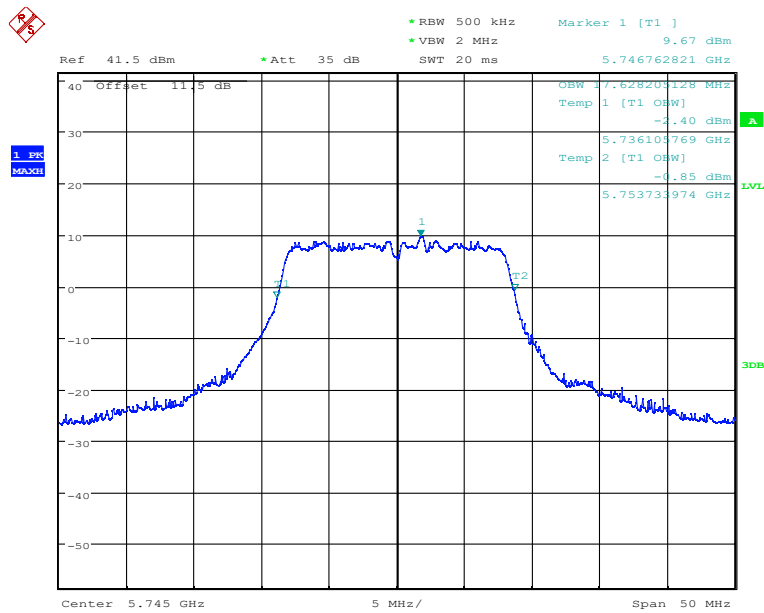


Date: 17.NOV.2021 21:09:29

Fig.163 26dB Bandwidth: Ch155,11ac (80MHz)

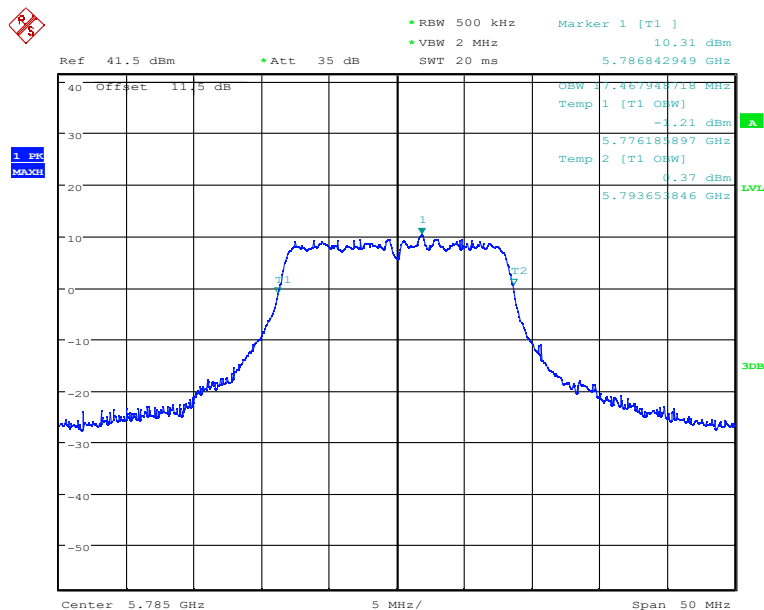
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Date: 10.NOV.2021 06:14:07

Fig.164 99% Bandwidth: Ch149,11a

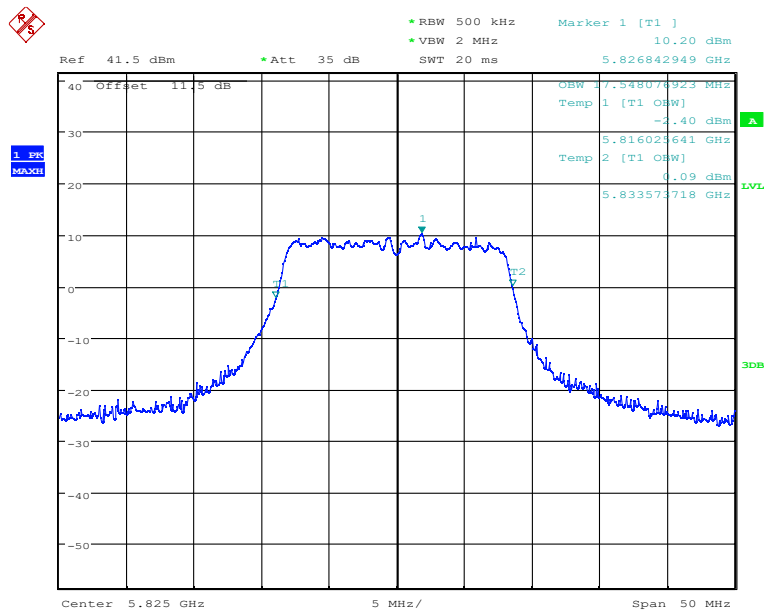


Date: 10.NOV.2021 06:15:35

Fig.165 99% Bandwidth: Ch157,11a

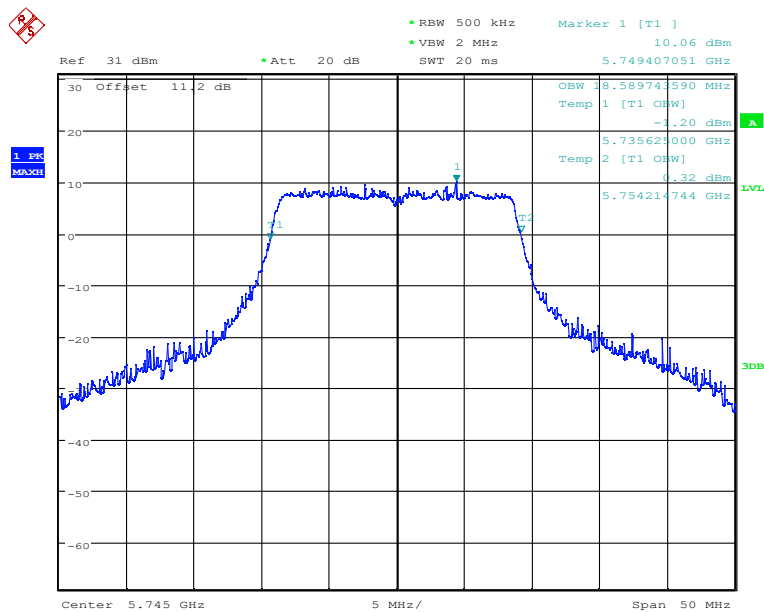
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Date: 10.NOV.2021 06:16:06

Fig.166 99% Bandwidth: Ch165,11a

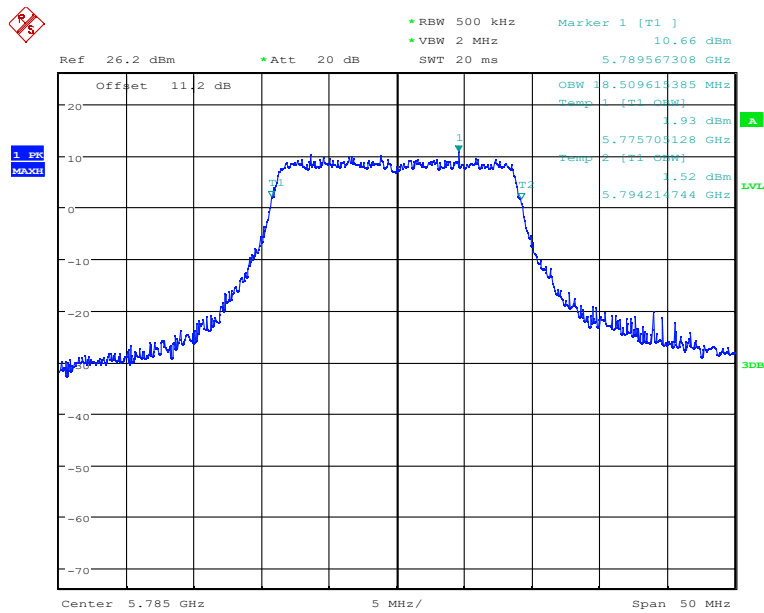


Date: 17.NOV.2021 20:13:19

Fig.167 99% Bandwidth: Ch149,11n

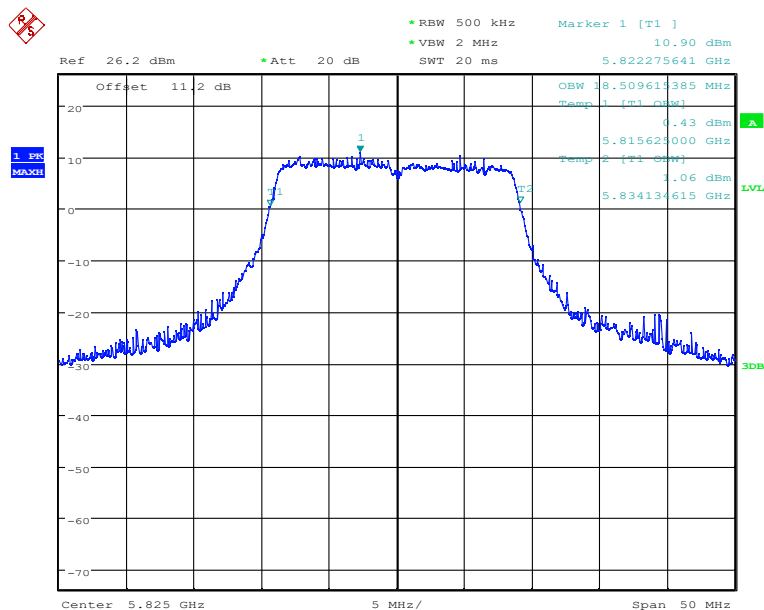
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Date: 17.NOV.2021 20:15:17

Fig.168 99% Bandwidth: Ch157,11n

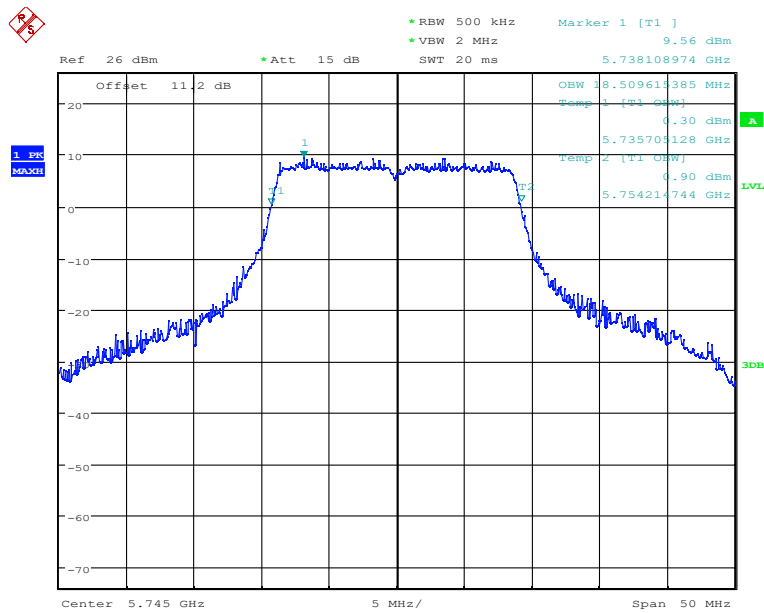


Date: 17.NOV.2021 20:15:54

Fig.169 99% Bandwidth: Ch165,11n

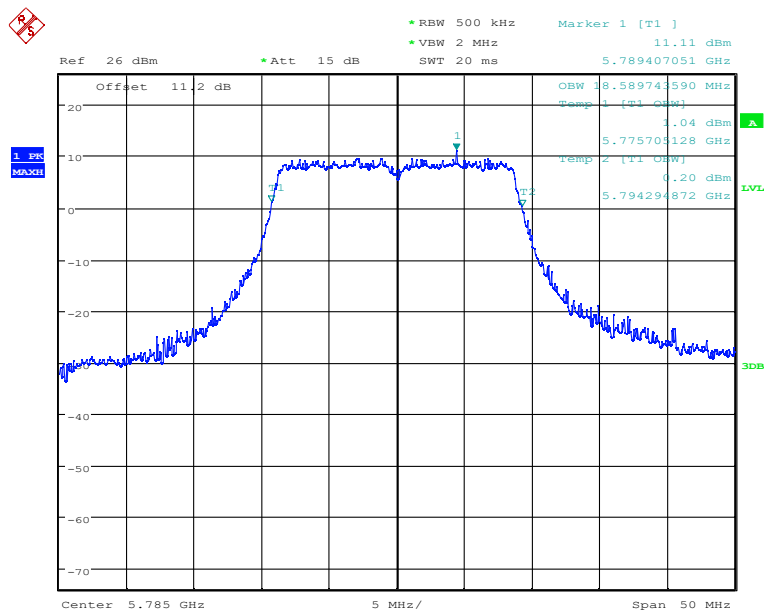
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Date: 17.NOV.2021 20:49:39

Fig.170 99% Bandwidth: Ch149,11ac

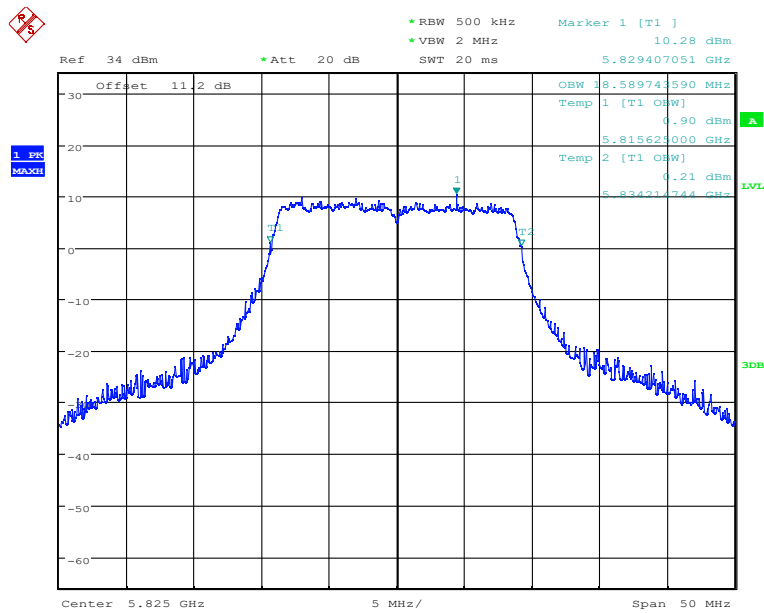


Date: 17.NOV.2021 20:50:37

Fig.171 99% Bandwidth: Ch157,11ac

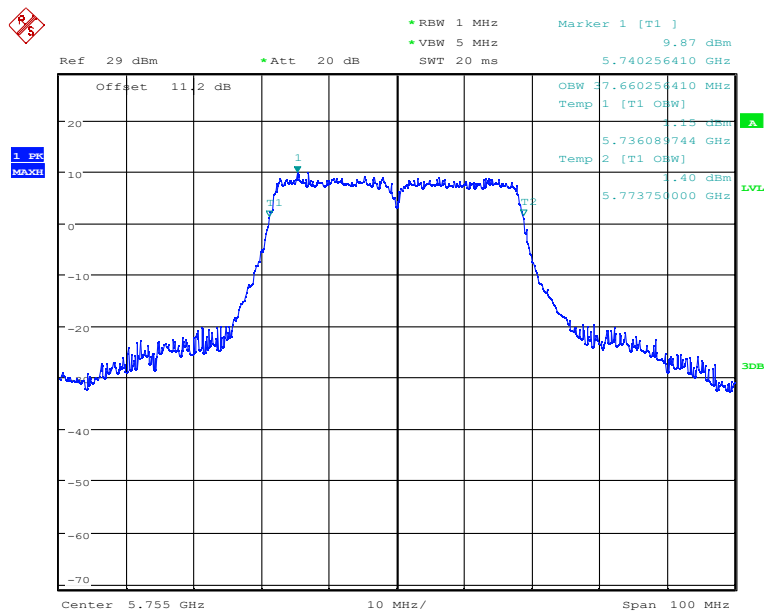
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Date: 17.NOV.2021 20:53:12

Fig.172 99% Bandwidth: Ch165,11ac

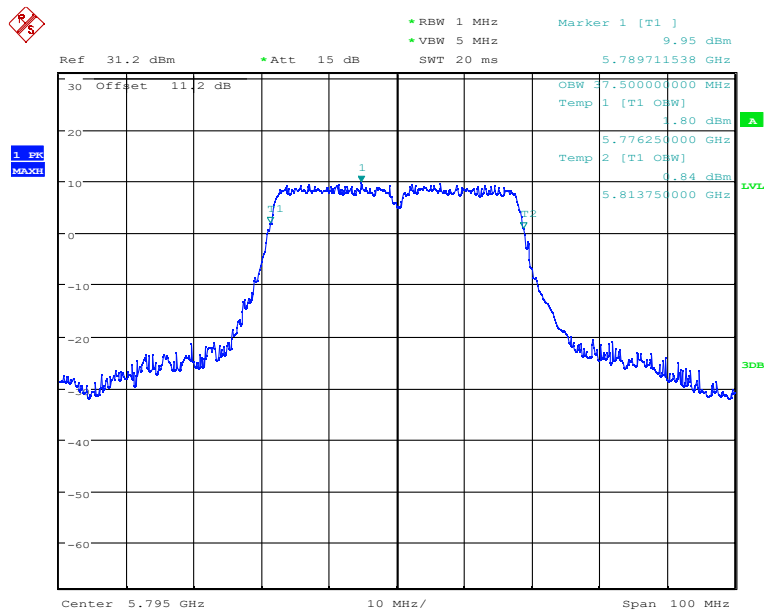


Date: 17.NOV.2021 20:23:58

Fig.173 99% Bandwidth: Ch151,11n (40MHz)

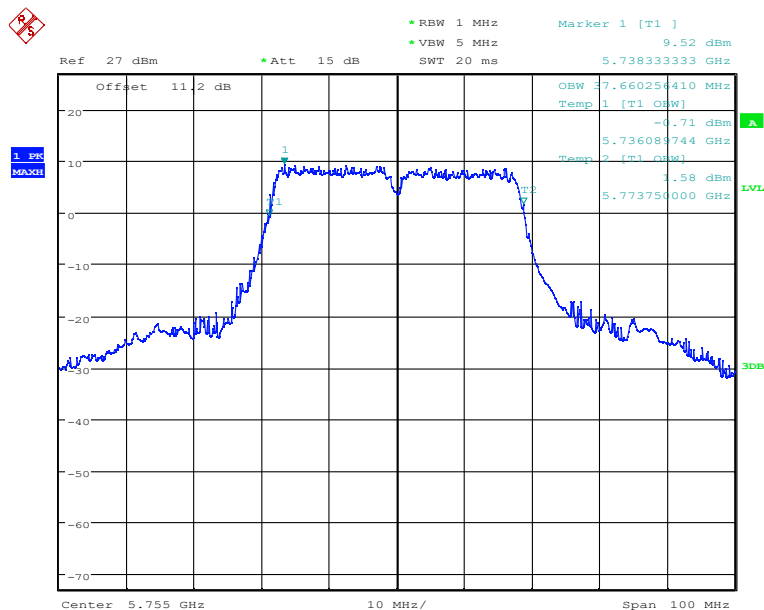
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Date: 17.NOV.2021 20:27:12

Fig.174 99% Bandwidth: Ch159,11n (40MHz)

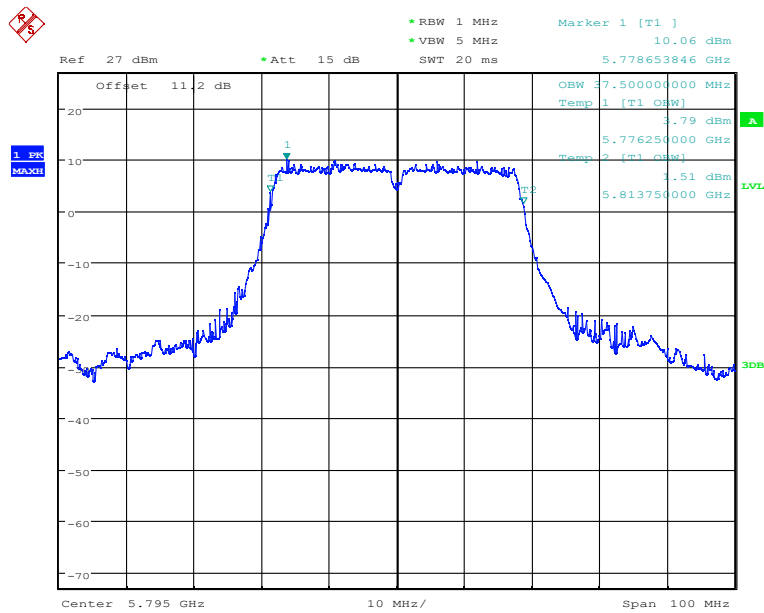


Date: 17.NOV.2021 21:02:27

Fig.175 99% Bandwidth: Ch151,11ac (40MHz)

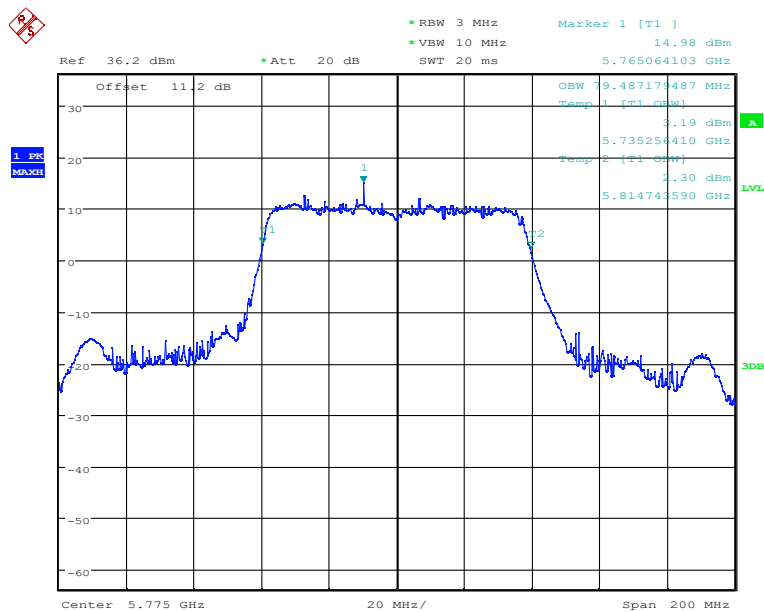
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Date: 17.NOV.2021 21:03:02

Fig.176 99% Bandwidth: Ch159,11ac (40MHz)

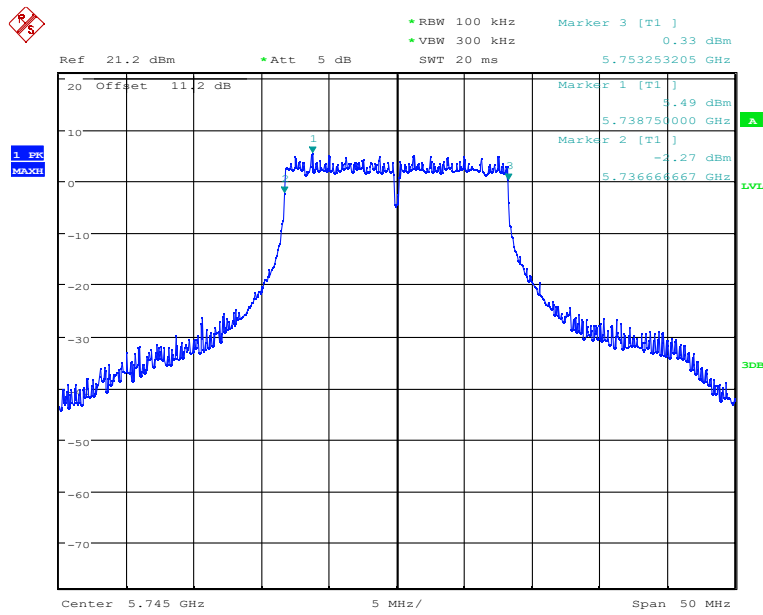


Date: 17.NOV.2021 21:09:20

Fig.177 99% Bandwidth: Ch155,11ac (80MHz)

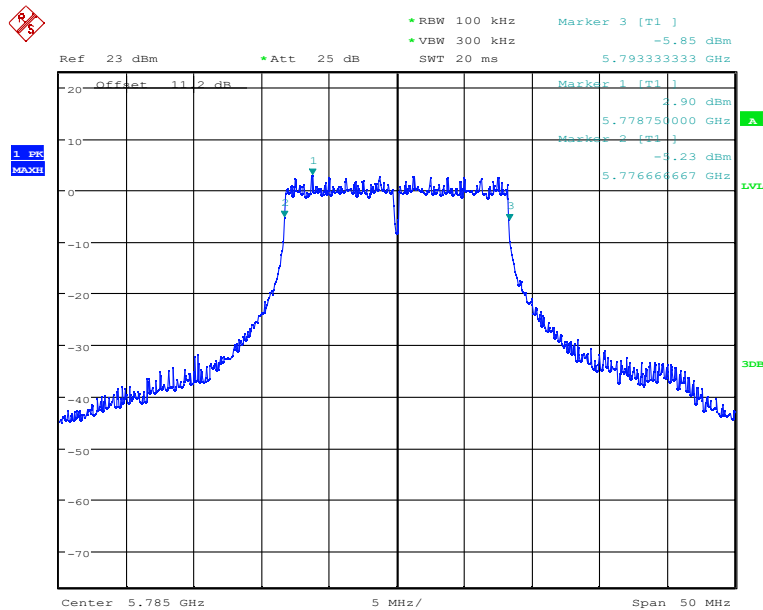
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Date: 17.NOV.2021 20:04:46

Fig.178 6dB Bandwidth: Ch149,11a

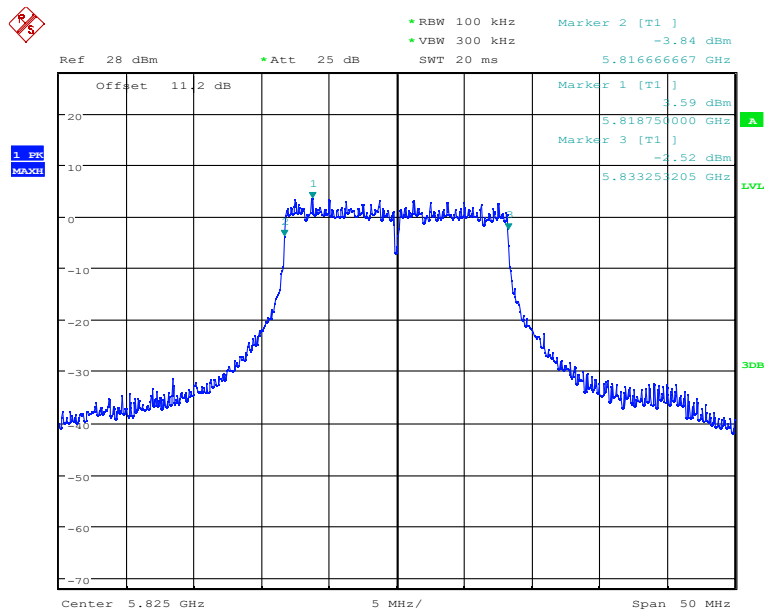


Date: 17.NOV.2021 20:06:13

Fig.179 6dB Bandwidth: Ch157,11a

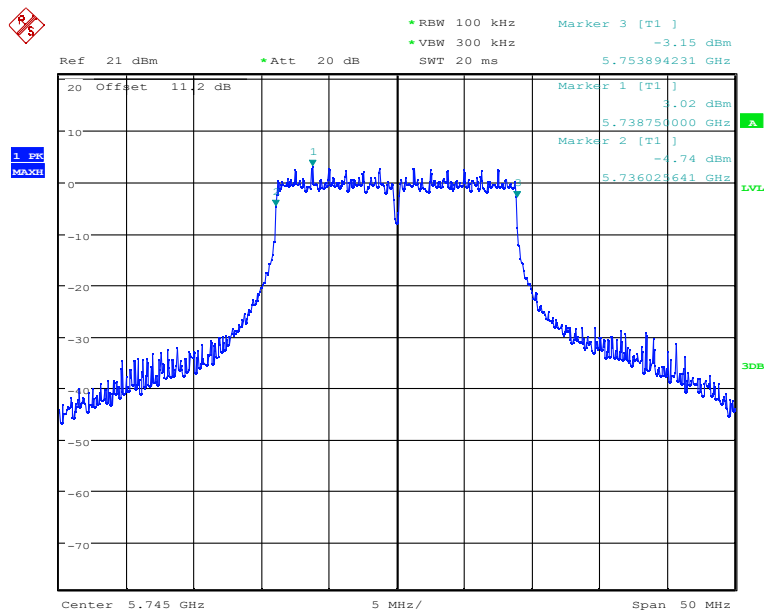
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Date: 17.NOV.2021 20:07:13

Fig.180 6dB Bandwidth: Ch165,11a

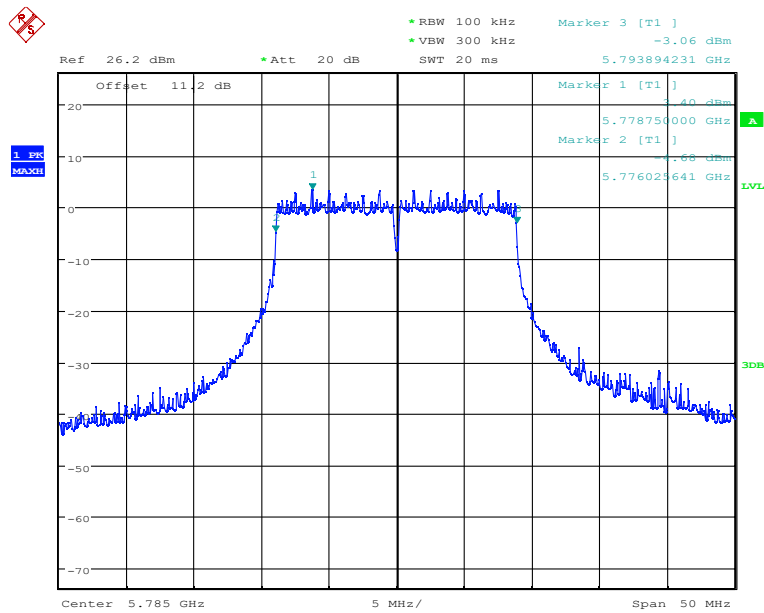


Date: 17.NOV.2021 20:13:46

Fig.181 6dB Bandwidth: Ch149,11n

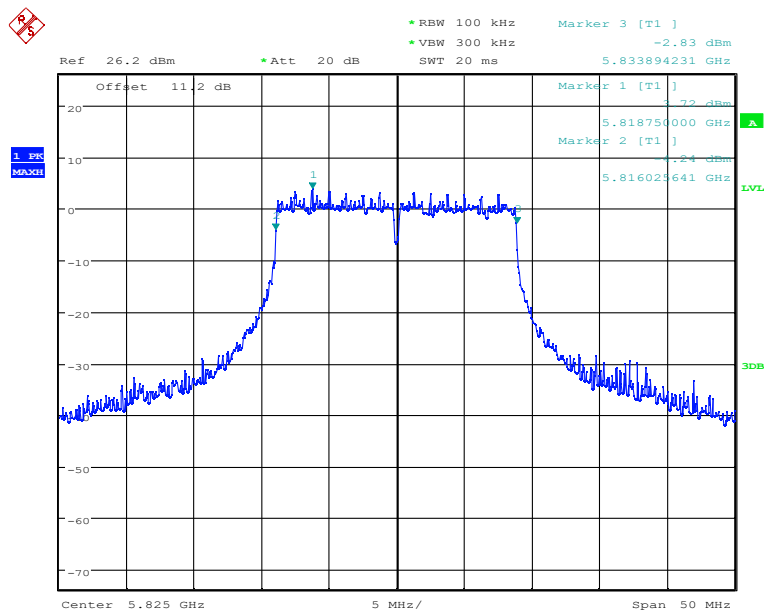
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Date: 17.NOV.2021 20:15:02

Fig.182 6dB Bandwidth: Ch157,11n

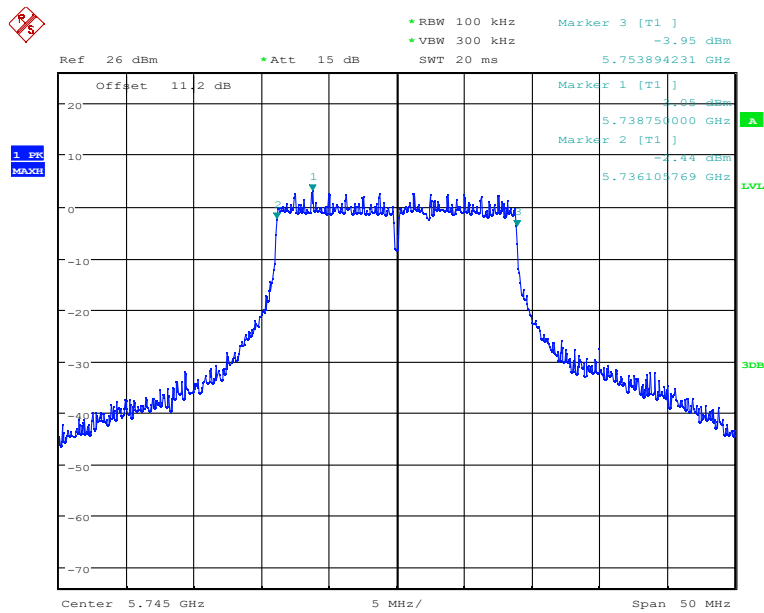


Date: 17.NOV.2021 20:16:17

Fig.183 6dB Bandwidth: Ch165,11n

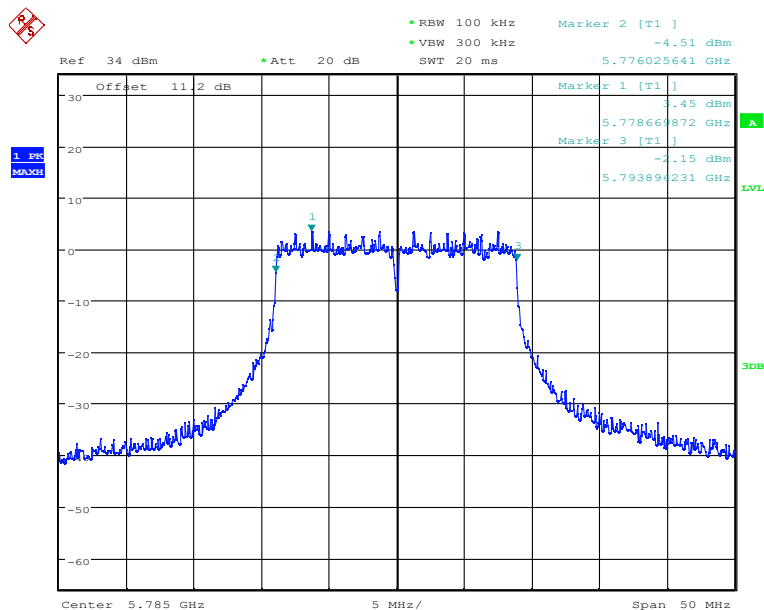
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Date: 17.NOV.2021 20:49:22

Fig.184 6dB Bandwidth: Ch149,11ac

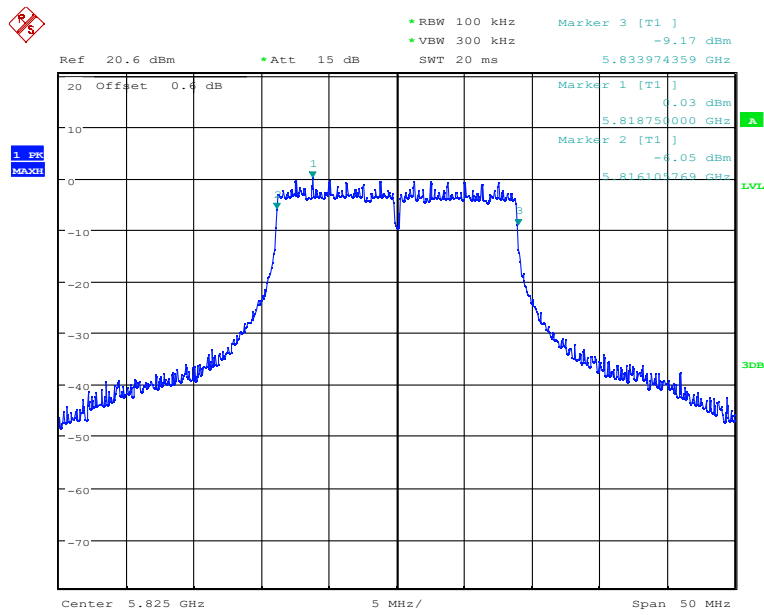


Date: 17.NOV.2021 20:51:52

Fig.185 6dB Bandwidth: Ch157,11ac

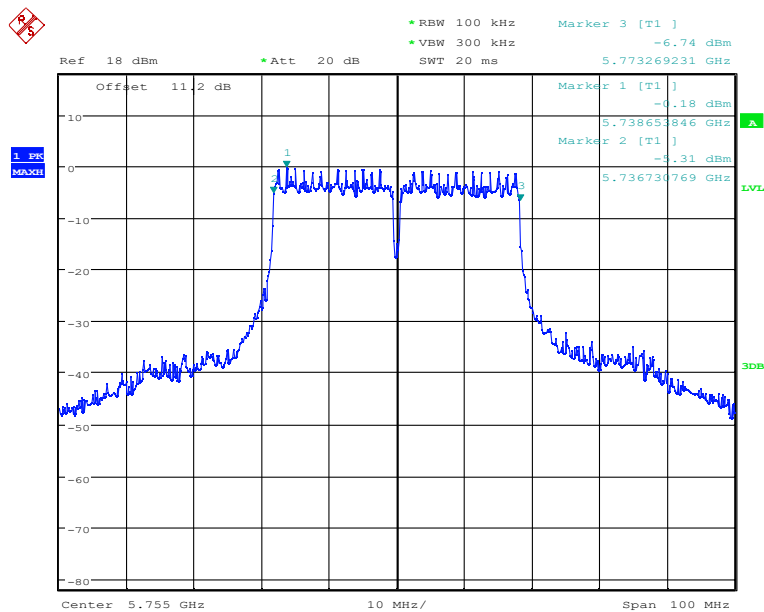
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Date: 1.DEC.2021 04:08:11

Fig.186 6dB Bandwidth: Ch165,11ac

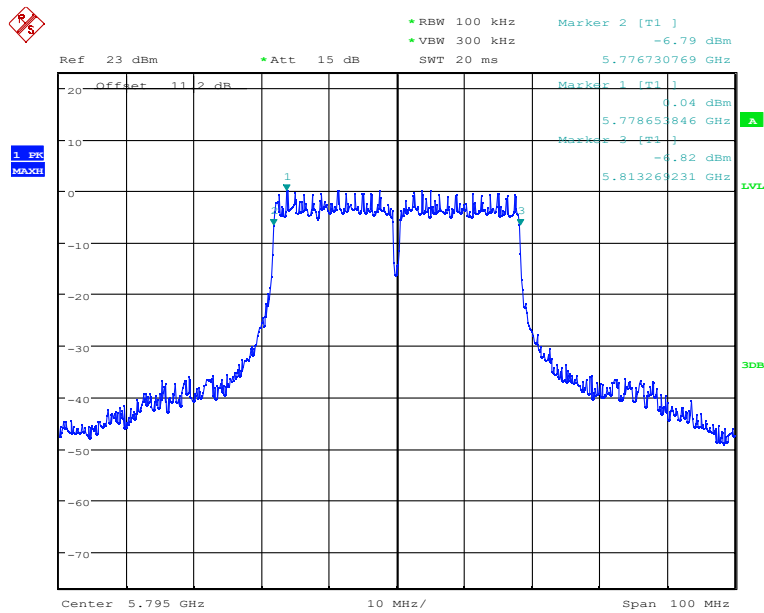


Date: 17.NOV.2021 20:24:35

Fig.187 6dB Bandwidth: Ch151,11n (40MHz)

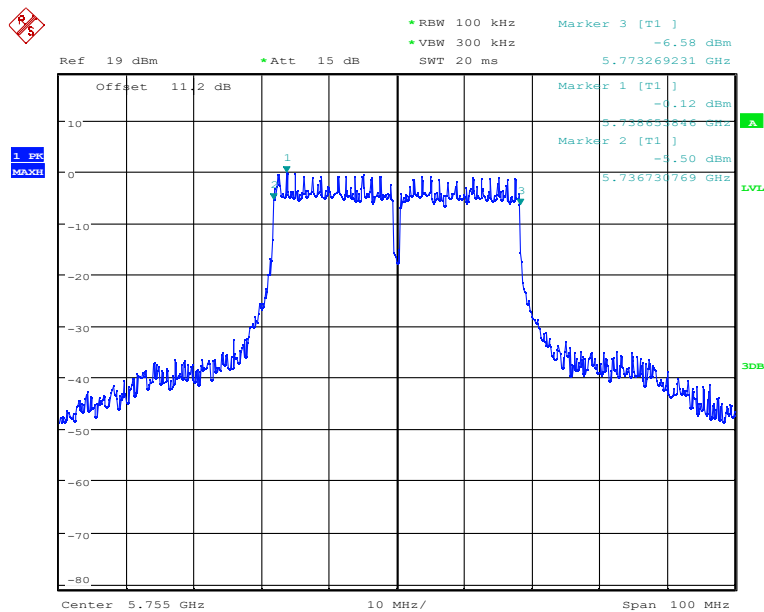
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Date: 17.NOV.2021 20:26:53

Fig.188 6dB Bandwidth: Ch159,11n (40MHz)

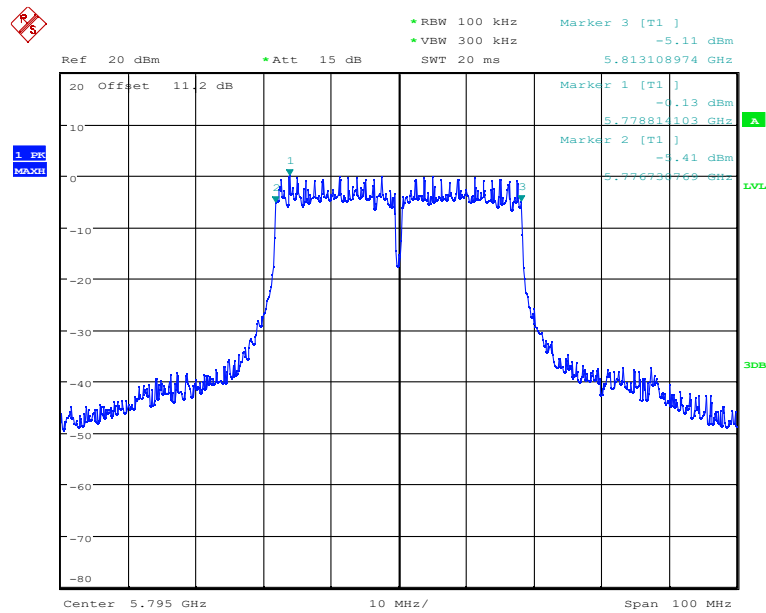


Date: 17.NOV.2021 21:02:09

Fig.189 6dB Bandwidth: Ch151,11ac (40MHz)

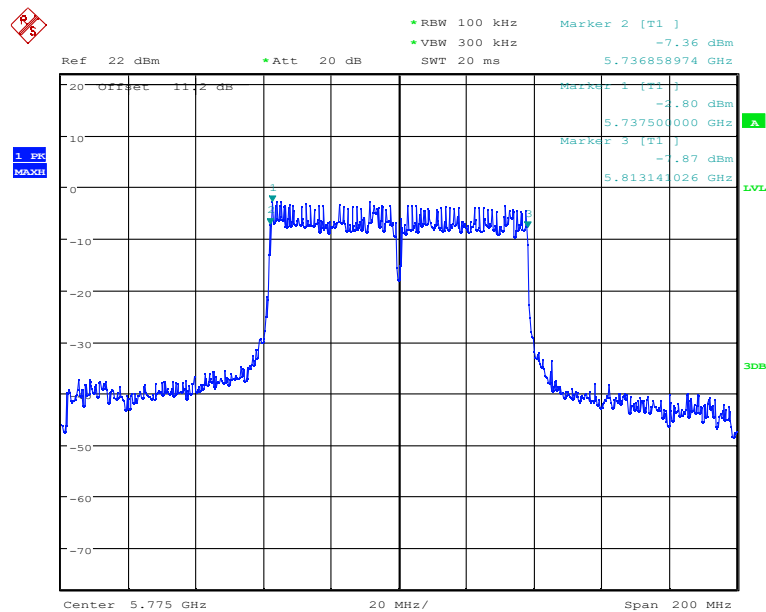
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Date: 17.NOV.2021 21:03:30

Fig.190 6dB Bandwidth: Ch159,11ac (40MHz)



Date: 17.NOV.2021 21:09:03

Fig.191 6dB Bandwidth: Ch155,11ac (80MHz)

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5.4 Band Edges Compliance

Specifications:	FCC Part 15. 407 (b)
DUT Serial Number:	865171050693269
Test conditions:	Ambient Temperature:15℃-35℃ Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	Pass

Limit

According to Part 15.407(b)

For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.725-5.85 GHz band:

All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Measurement Uncertainty:

Frequency Range	Uncertainty
1 GHz to 6 GHz	4.84

Test Procedure

The measurement is according to ANSI C63.10 clause 11.13.

1. Span: Wide enough to capture the peak level of the emission operating on the channel closest to the band edge, as well as any modulation products that fall outside of the authorized band of operation.

2. Reference level offset: Corrected for gains and losses of test antenna factor, preamp

gain and cable loss, so as to indicate field strength, in units of dBμV/m at 3 m, directly

on the instrument display. Alternatively, the reference level offset may be set to zero

and calculations shall be provided showing the conversion of raw measured data to the field strength in dBμV/m at 3 m.

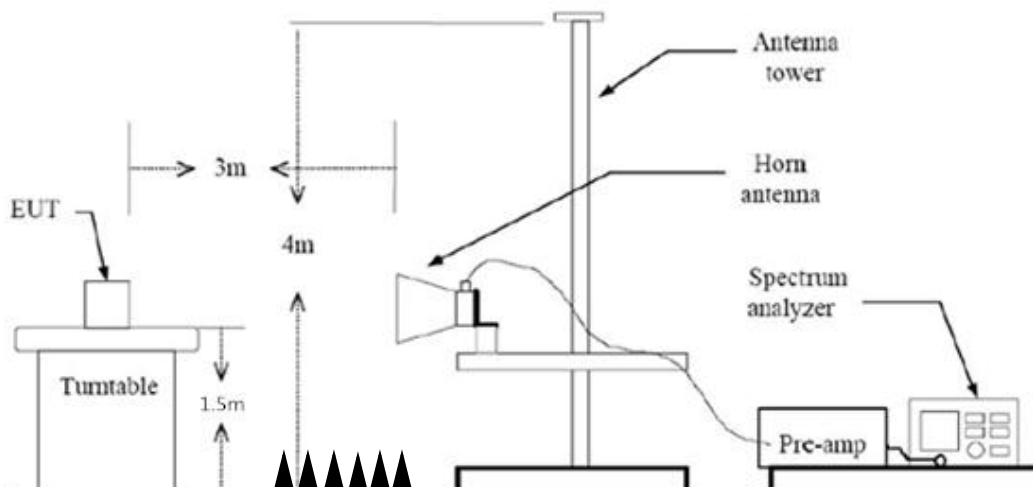
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3. Reference level: As required to keep the signal from exceeding the maximum spectrum analyzer input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than $[10 \log (\text{OBW/RBW})]$ below the reference level. Specific guidance is given in 4.1.5.2..
4. Attenuation: Auto (at least 10 dB preferred).
5. Sweep time: Coupled.
6. Resolution bandwidth: Above 1 GHz: 1 MHz
7. Video bandwidth: VBW for Peak, Quasi-peak, or Average Detector Function: $3 \times \text{RBW}$
8. Detector (unless specified otherwise): Peak and average above 1 GHz
9. Trace: Max hold for final measurement; a combination of two traces, clear-write and max hold, is recommended for maximizing the emission.

Note: --

Test block diagram:



Test Result:

802.11a mode

mode	Channel	Test Results(dBuV/m)	Conclusion
802.11a	36	Fig.192	Pass
	48	Fig.193	Pass
	52	Fig.194	Pass
	64	Fig.195	Pass
	100	Fig.196	Pass
	140	Fig.197	Pass
	149	Fig.198	Pass
	165	Fig.199	Pass

802.11n mode

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mode	Channel	Test Results(dBuV/m)	Conclusion
802.11n (20M)	36	Fig.200	Pass
	48	Fig.201	Pass
	52	Fig.202	Pass
	64	Fig.203	Pass
	100	Fig.204	Pass
	140	Fig.205	Pass
	149	Fig.206	Pass
	165	Fig.207	Pass

mode	Channel	Test Results(dBuV/m)	Conclusion
802.11n (40M)	38	Fig.208	Pass
	46	Fig.209	Pass
	54	Fig.210	Pass
	62	Fig.211	Pass
	102	Fig.212	Pass

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	134	Fig.213	Pass
	151	Fig.214	Pass
	159	Fig.215	Pass

802.11ac mode

mode	Channel	Test Results(dBuV/m)	Conclusion
802.11ac (20M)	36	Fig.216	Pass
	48	Fig.217	Pass
	52	Fig.218	Pass
	64	Fig.219	Pass
	100	Fig.220	Pass
	140	Fig.221	Pass
	149	Fig.222	Pass
	165	Fig.223	Pass

mode	Channel	Test Results(dBuV/m)	Conclusion
802.11ac (40M)	38	Fig.224	Pass

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	46	Fig.225	Pass
	54	Fig.226	Pass
	62	Fig.227	Pass
	102	Fig.228	Pass
	134	Fig.229	Pass
	151	Fig.230	Pass
	159	Fig.231	Pass

mode	Channel	Test Results(dBuV/m)	Conclusion
802.11ac (80M)	42	Fig.232	Pass
	58	Fig.233	Pass
	106	Fig.234	Pass
	155	Fig.235	Pass

Conclusion: PASS

Test figure as below:

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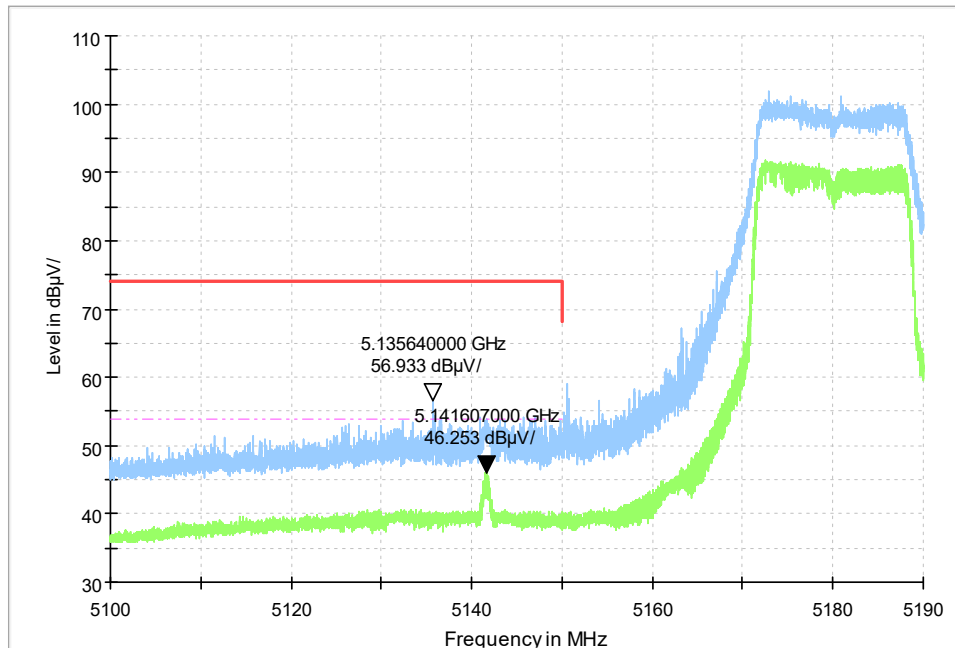


Fig.192 Frequency Band Edge: 802.11a,CH36

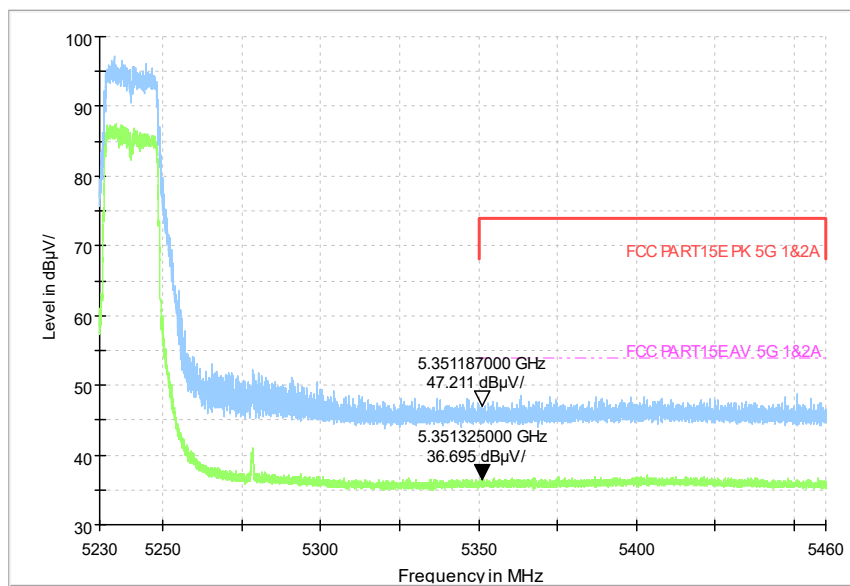


Fig.193 Frequency Band Edge: 802.11a,CH48

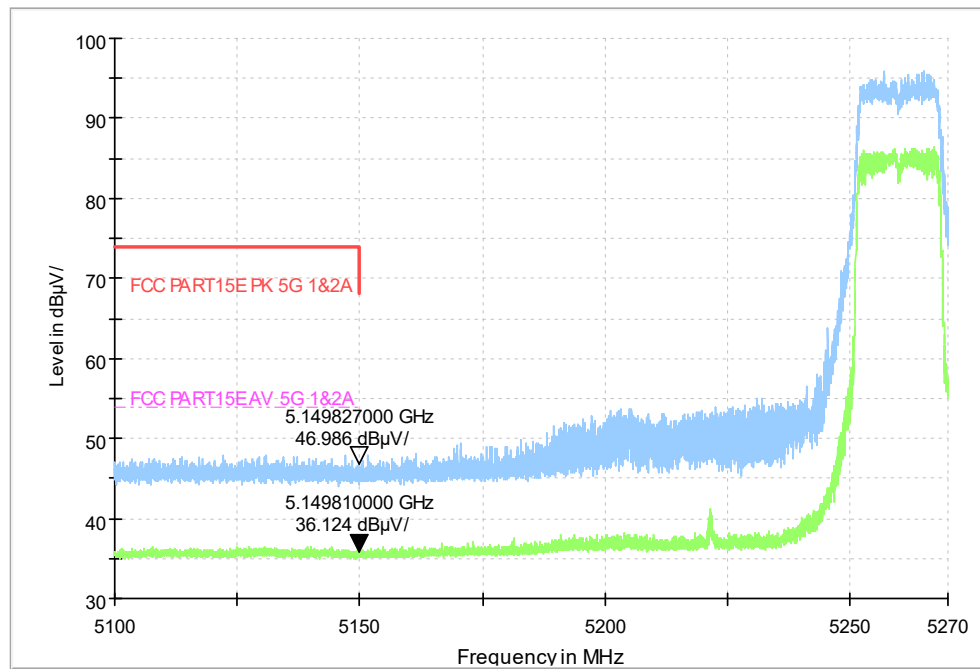


Fig.194 Frequency Band Edge: 802.11a,CH52

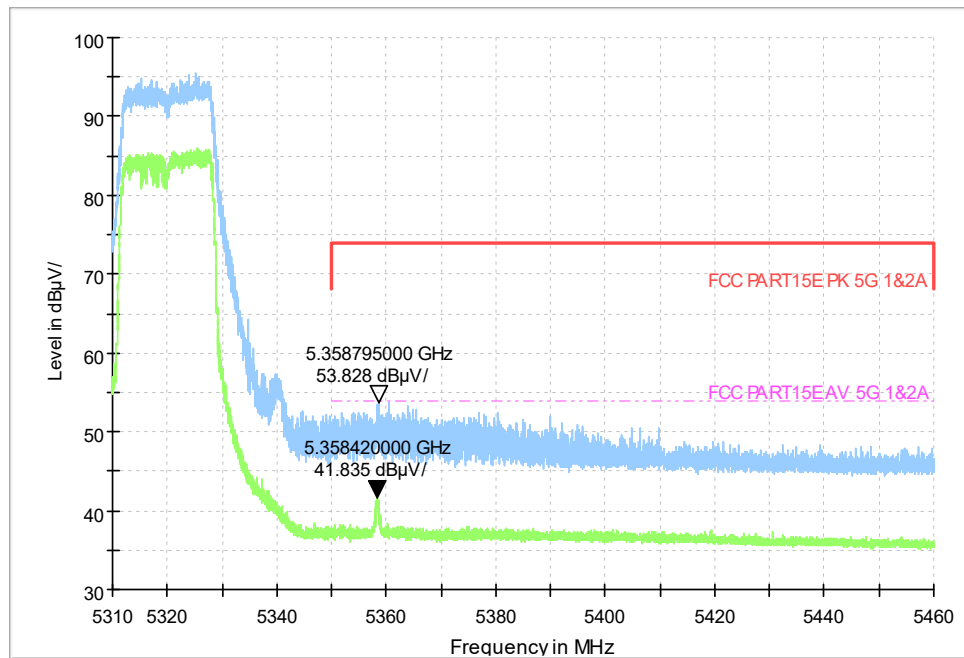


Fig.195 Frequency Band Edge: 802.11a,CH64

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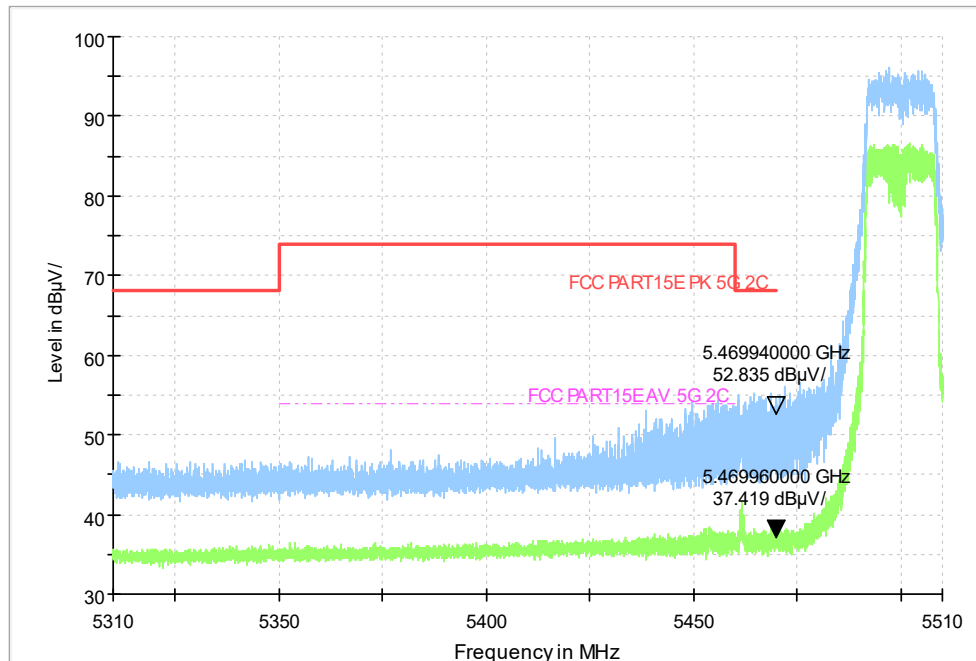


Fig.196 Frequency Band Edge: 802.11a,CH100

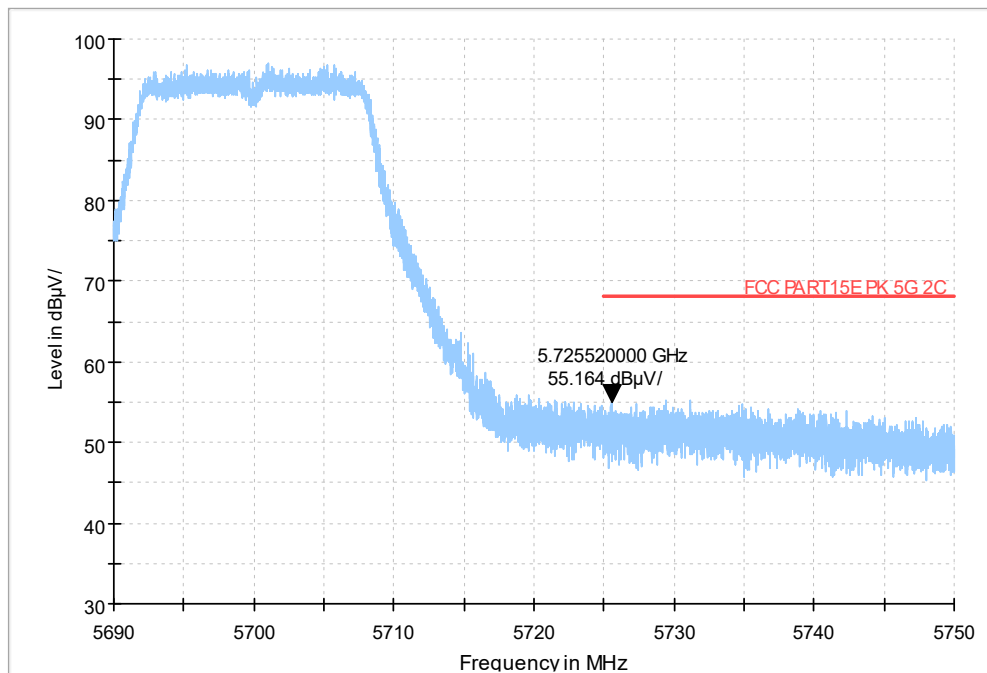


Fig.197 Frequency Band Edge: 802.11a,CH140

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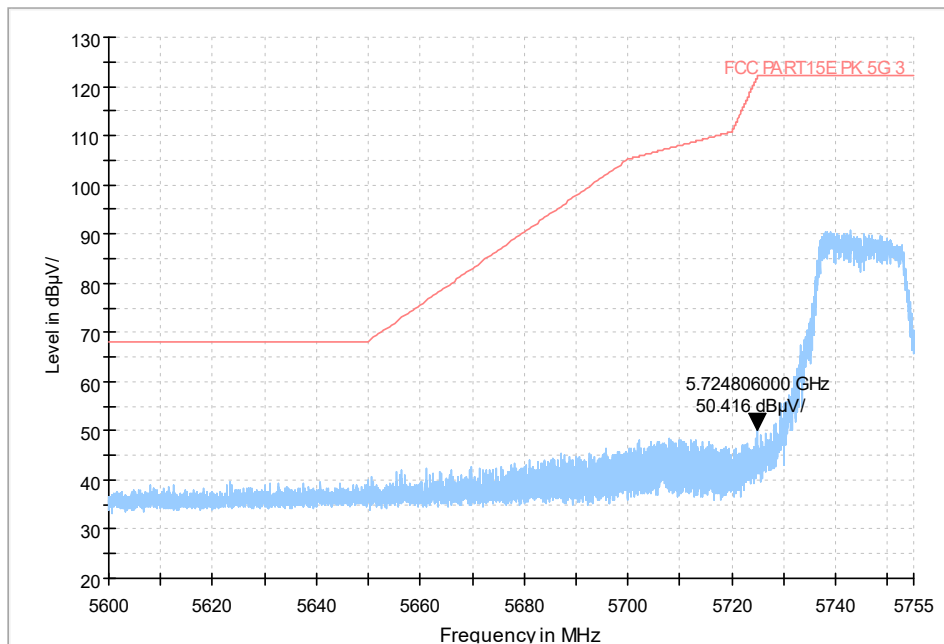


Fig.198 Frequency Band Edge: 802.11a,CH149

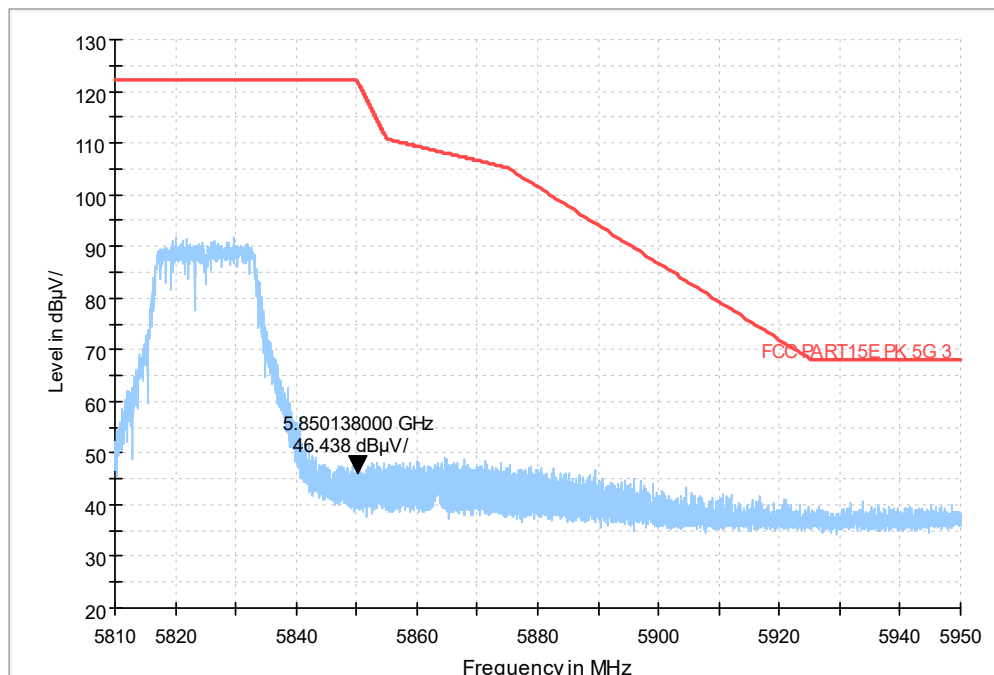


Fig.199 Frequency Band Edge:802.11a,CH165

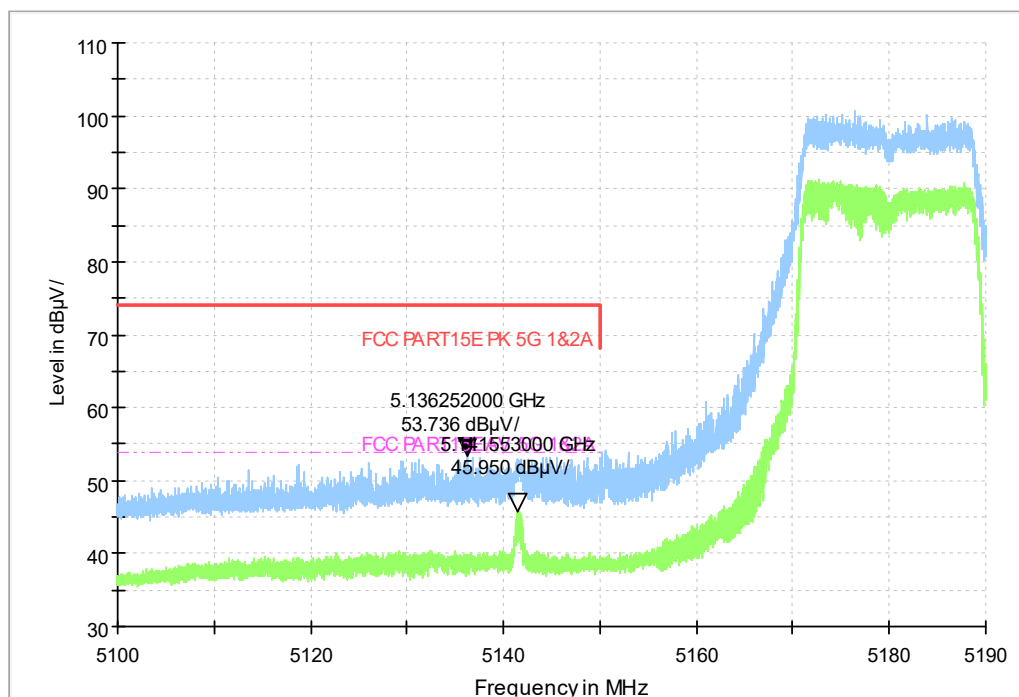


Fig.200 Frequency Band Edge: 802.11n(20M),CH36

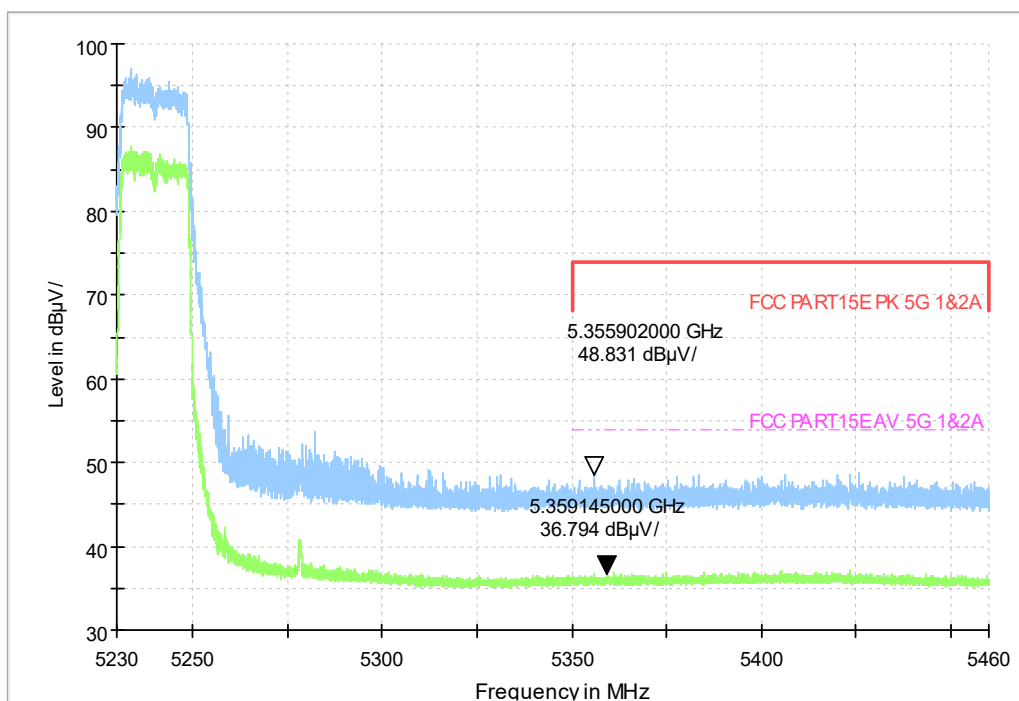


Fig.201 Frequency Band Edge: 802.11n(20M),CH48

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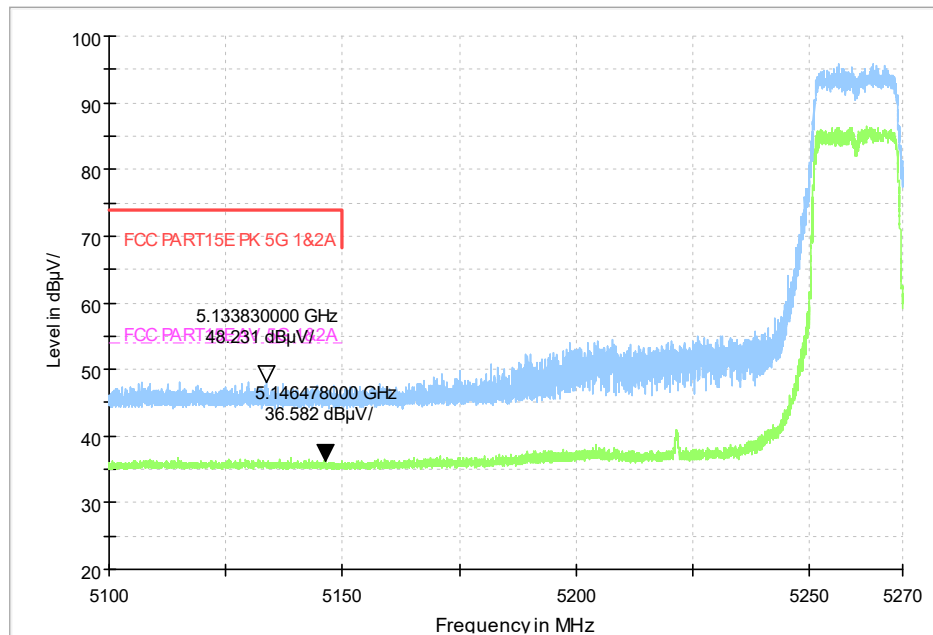


Fig.202 Frequency Band Edge: 802.11n(20M),CH52

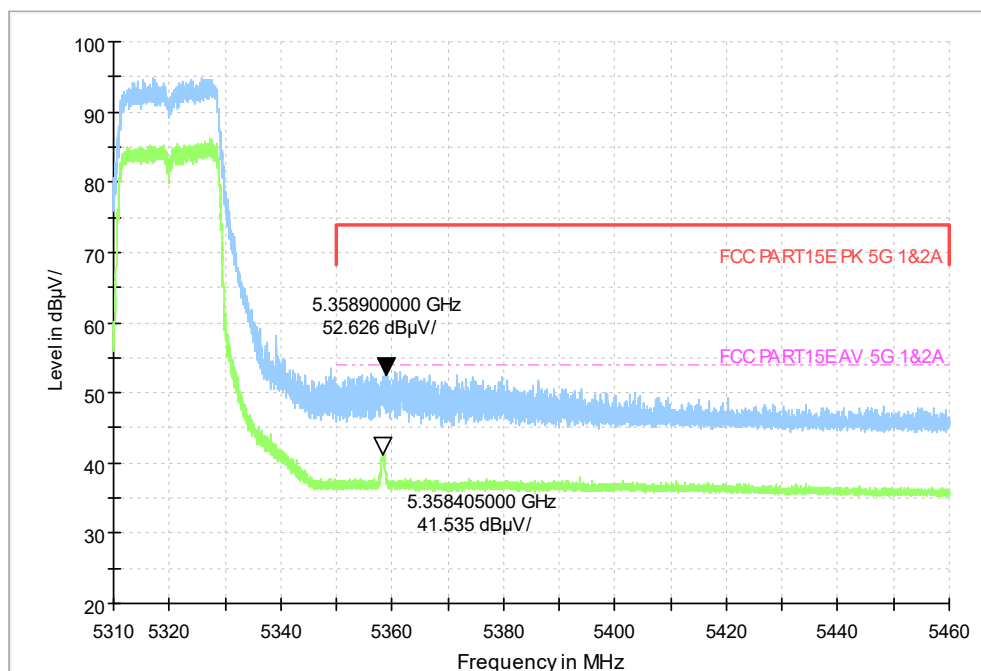


Fig.203 Frequency Band Edge: 802.11n(20M),CH64

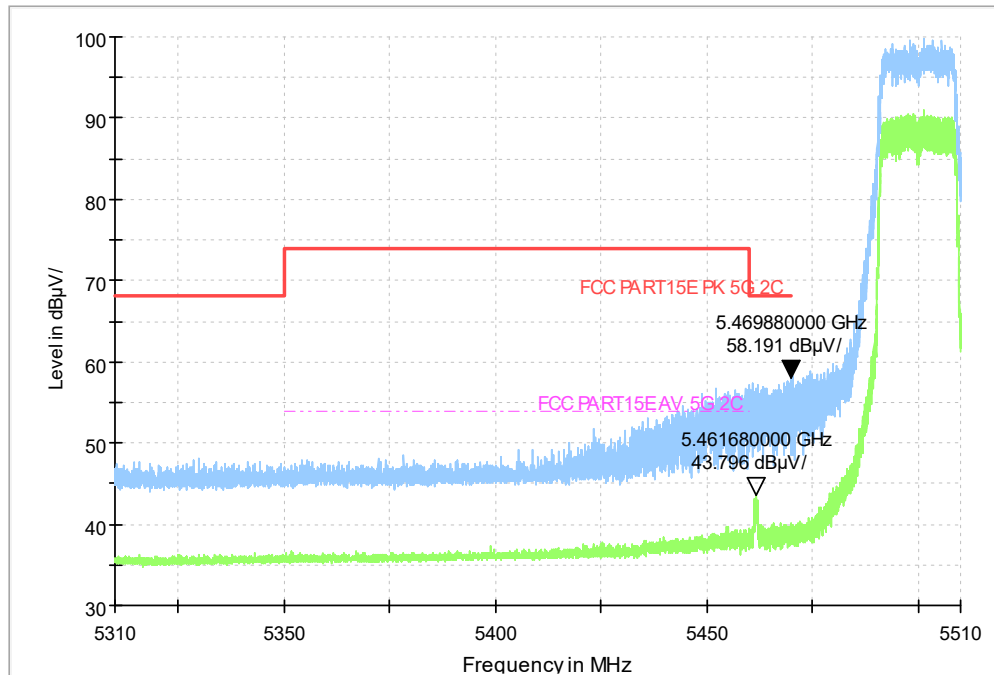


Fig.204 Frequency Band Edge: 802.11n(20M),CH100

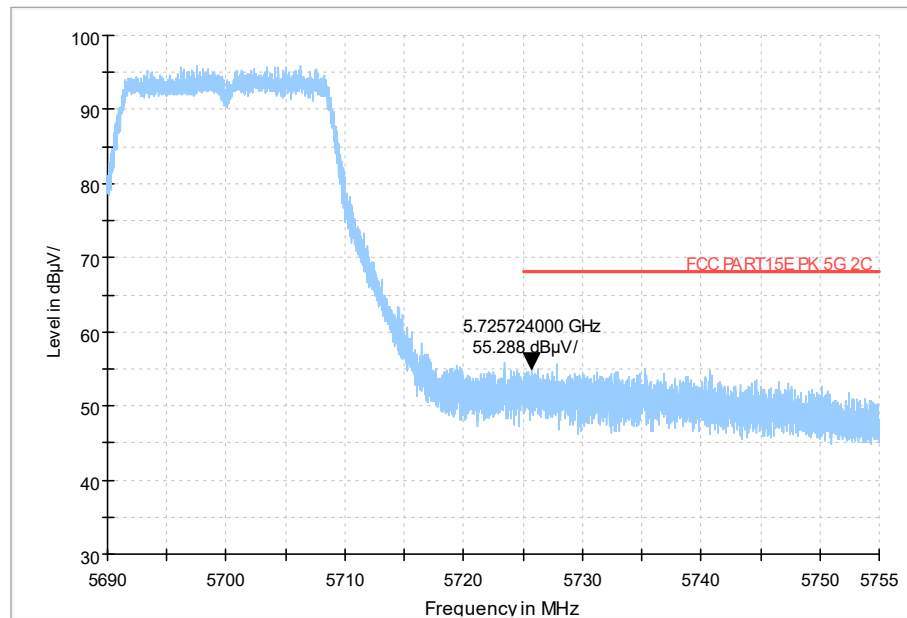


Fig.205 Frequency Band Edge: 802.11n(20M),CH140

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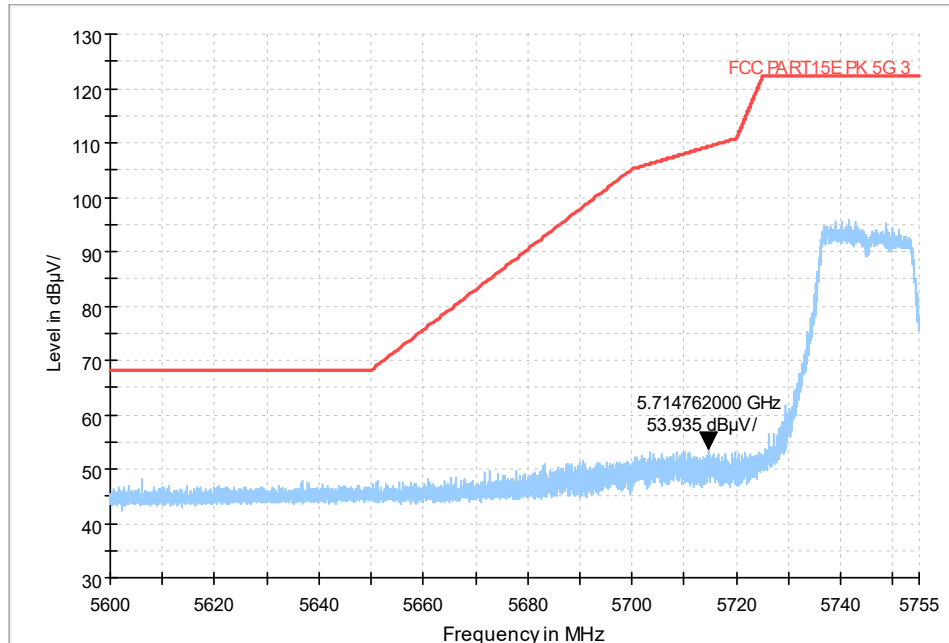


Fig.206 Frequency Band Edge:802.11n(20M) ,CH149

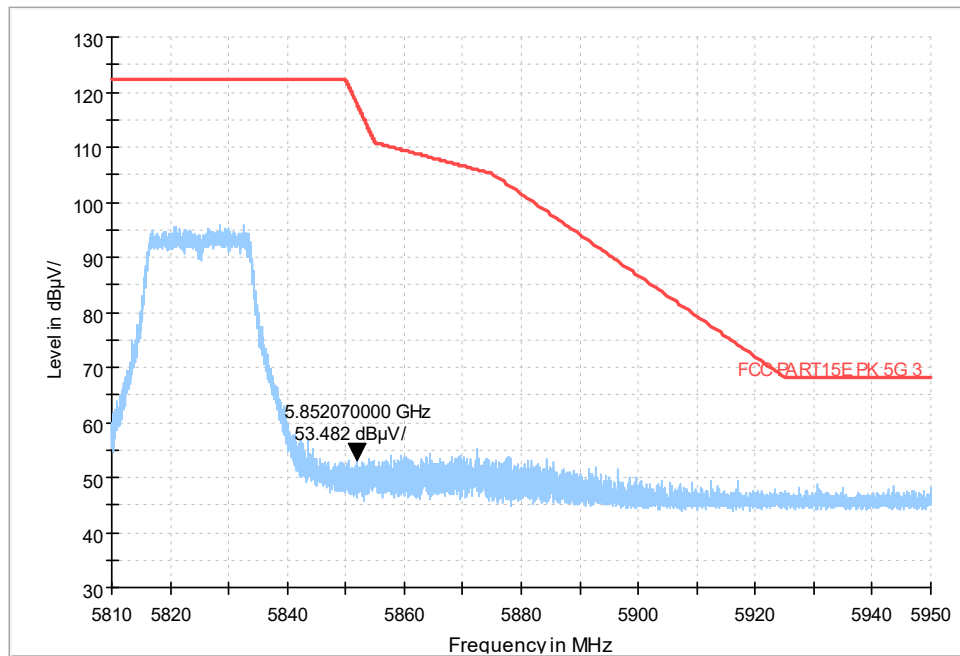


Fig.207 Frequency Band Edge:802.11n(20M) ,CH165

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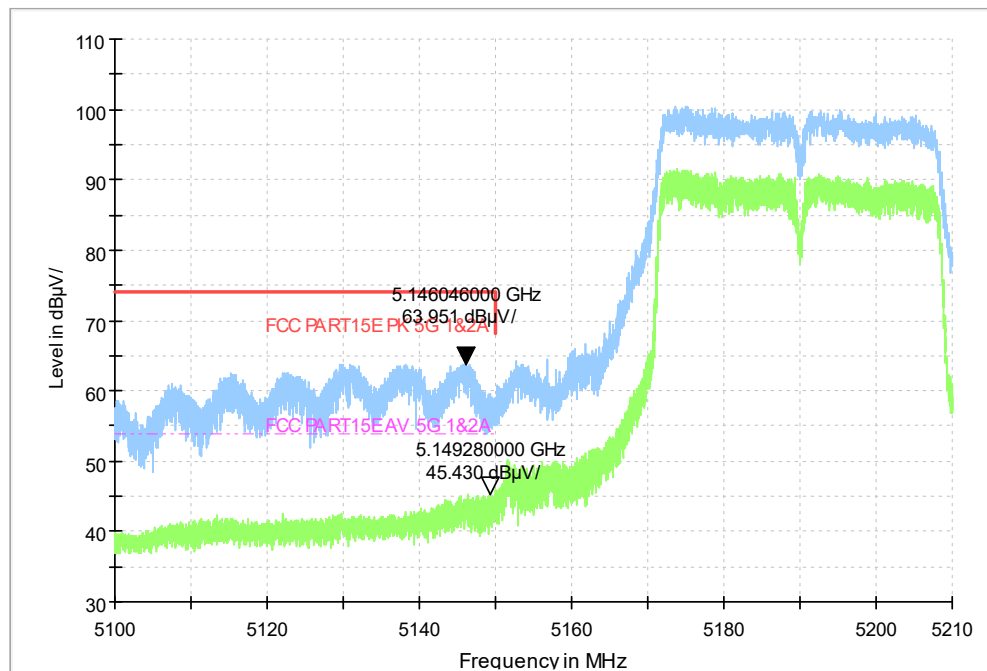


Fig.208 Frequency Band Edge: 802.11n(40M),CH38

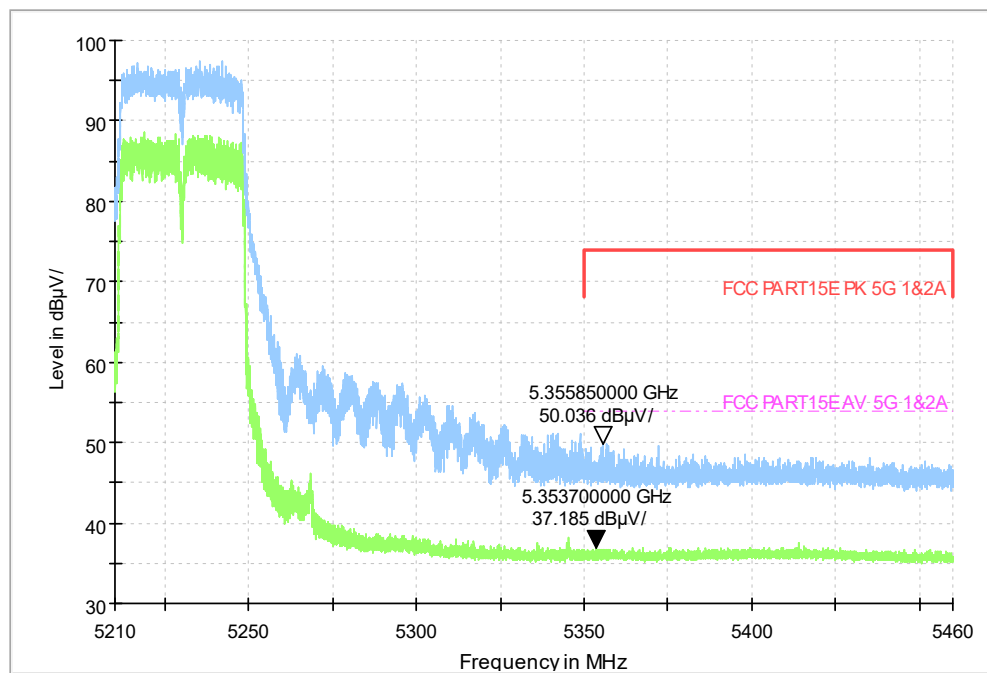


Fig.209 Frequency Band Edge: 802.11n(40M),CH46

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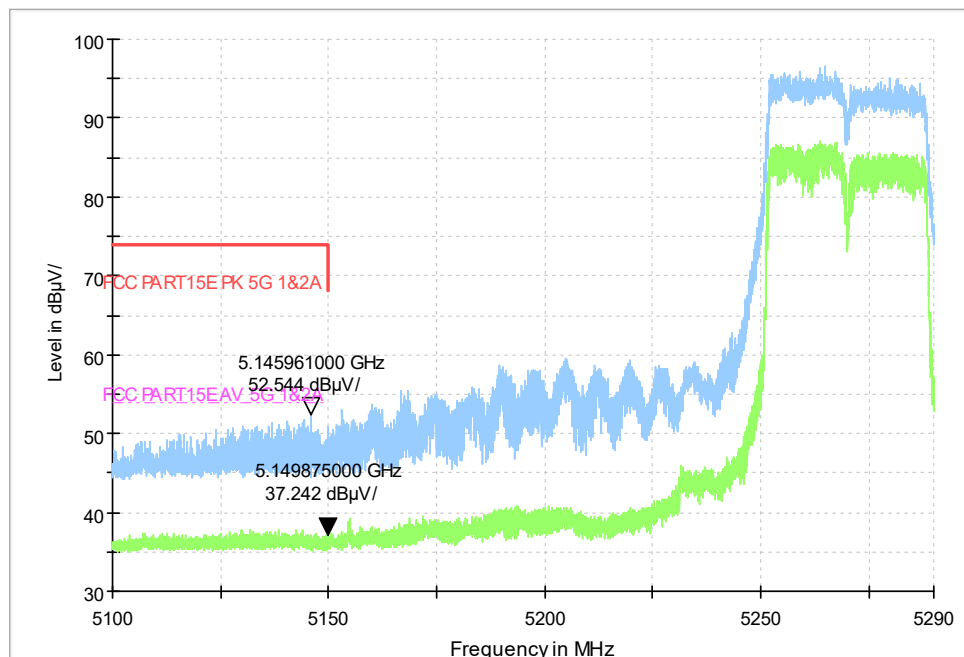


Fig.210 Frequency Band Edge: 802.11n(40M),CH54

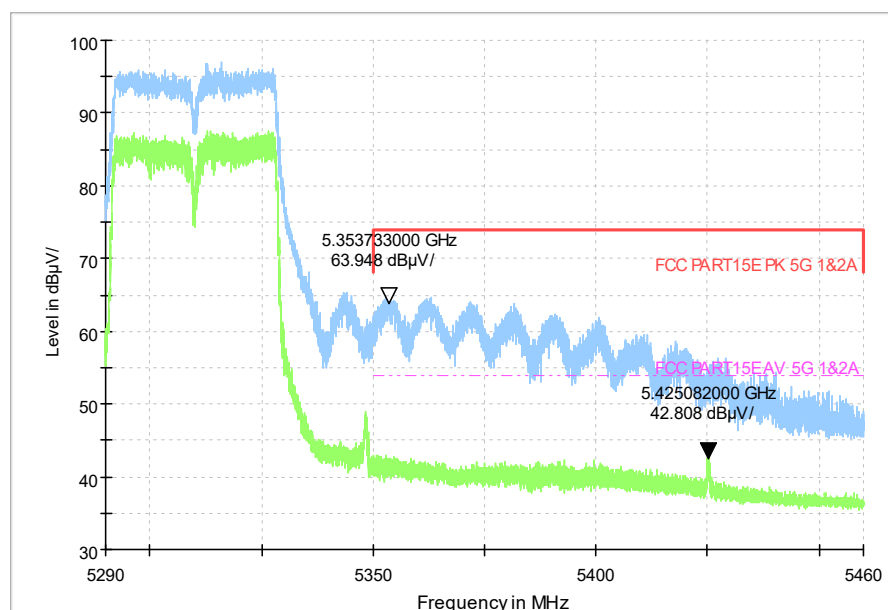


Fig.211 Frequency Band Edge: 802.11n(40M),CH62

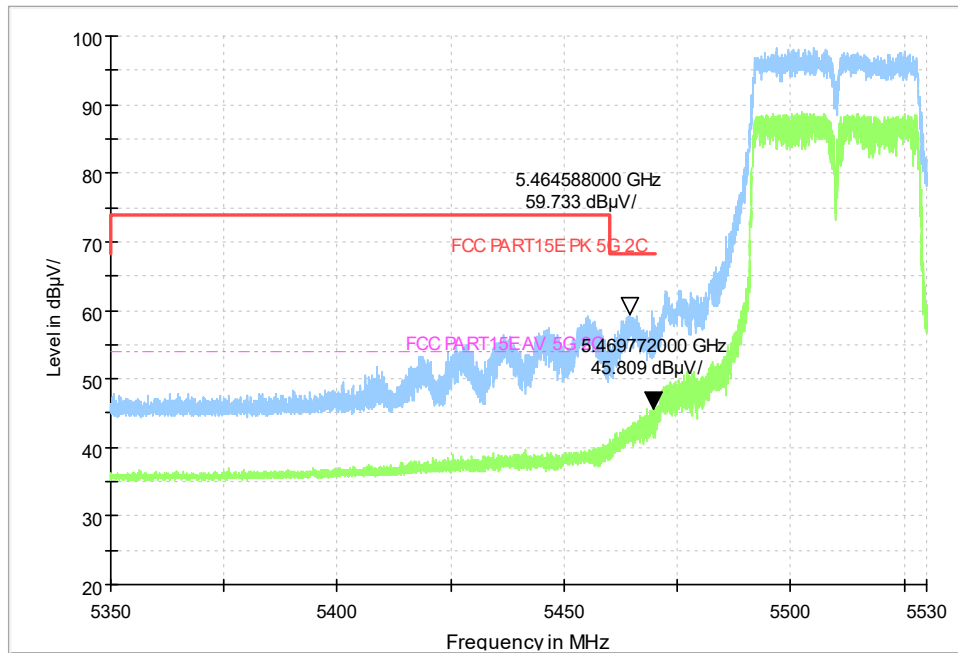


Fig.212 Frequency Band Edge: 802.11n(40M),CH102

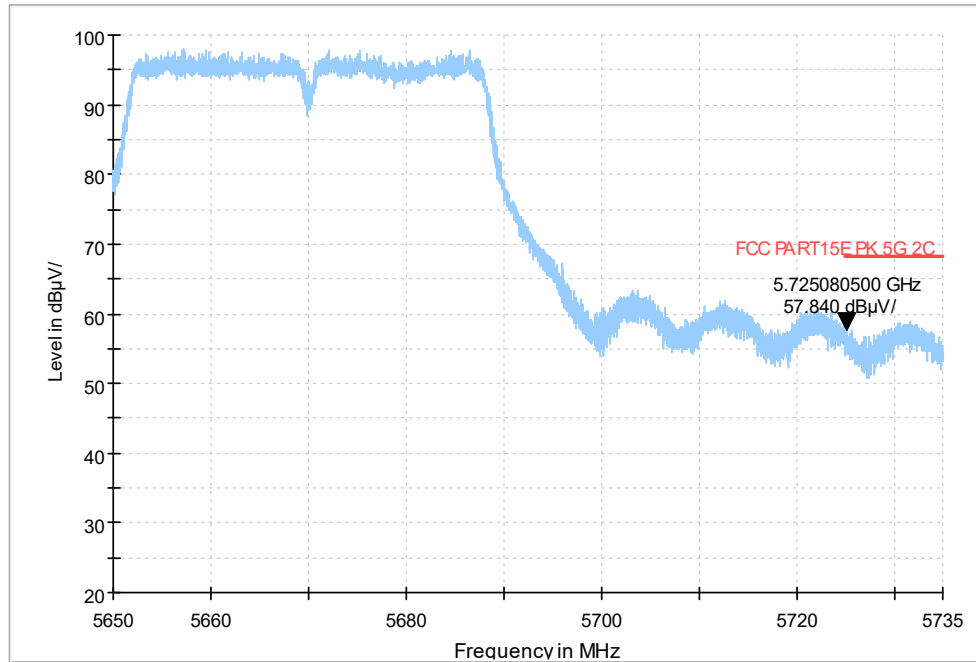


Fig.213 Frequency Band Edge: 802.11n(40M),CH134

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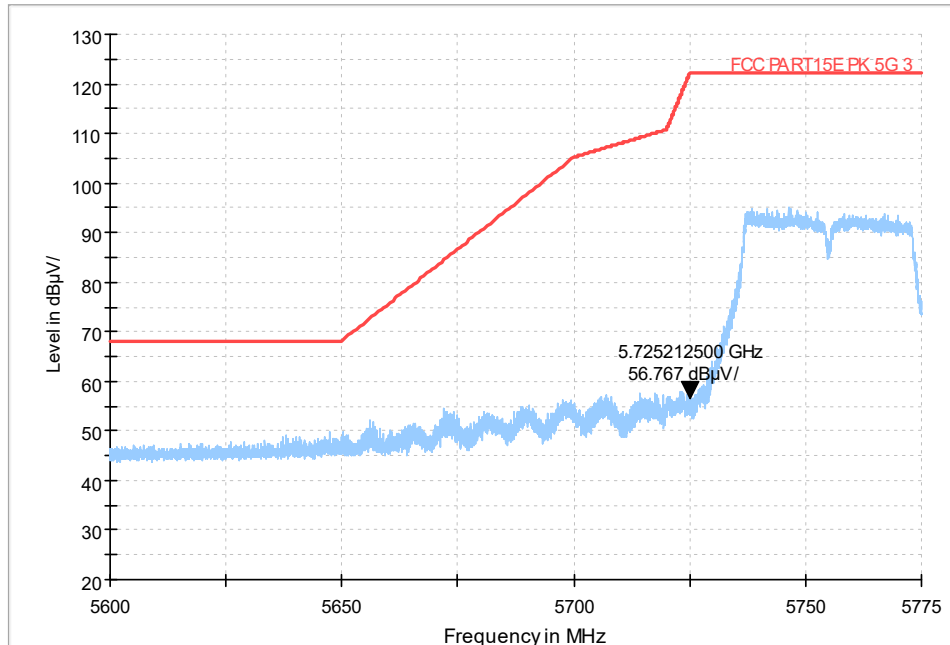


Fig.214 Frequency Band Edge: 802.11n(40M),CH151

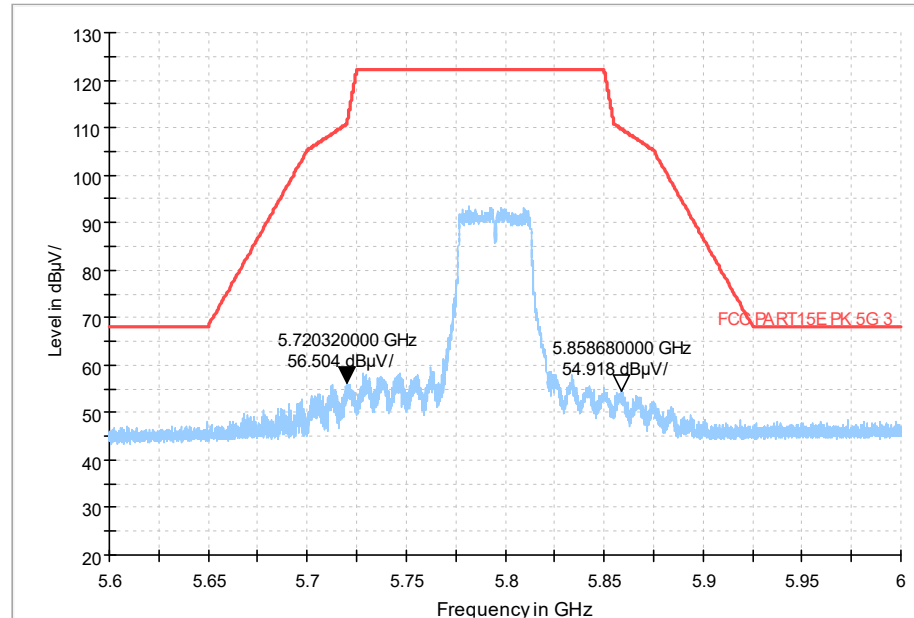


Fig.215 Frequency Band Edge: 802.11n(40M),CH159

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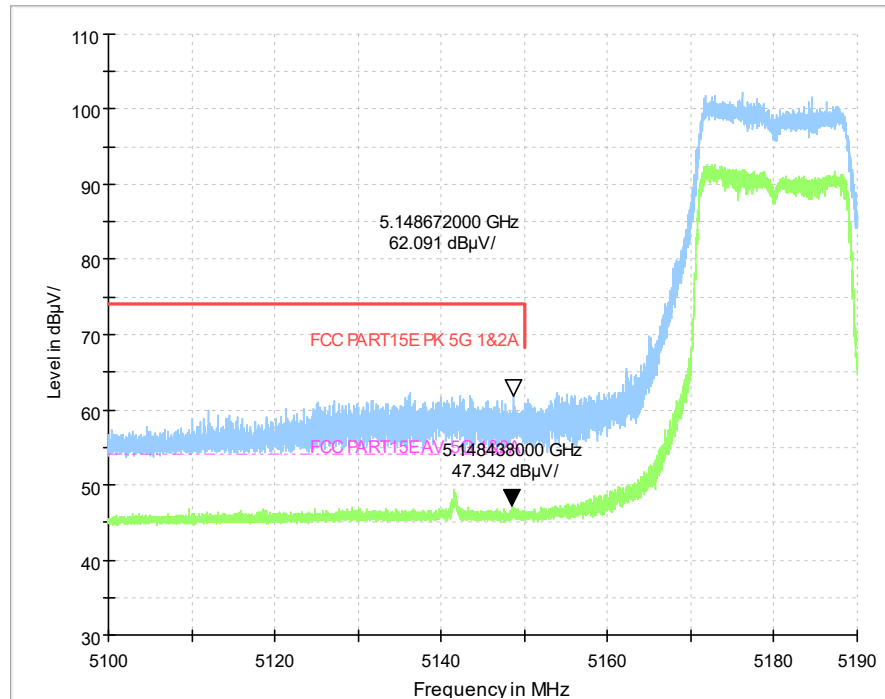


Fig.216 Frequency Band Edge: 802.11ac(20M),CH36

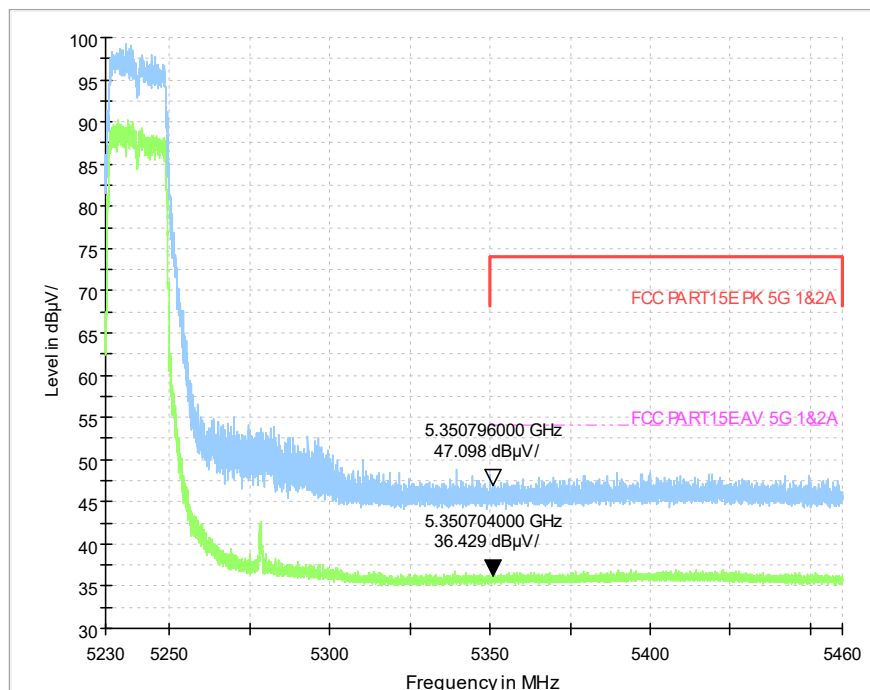


Fig.217 Frequency Band Edge: 802.11ac(20M),CH48

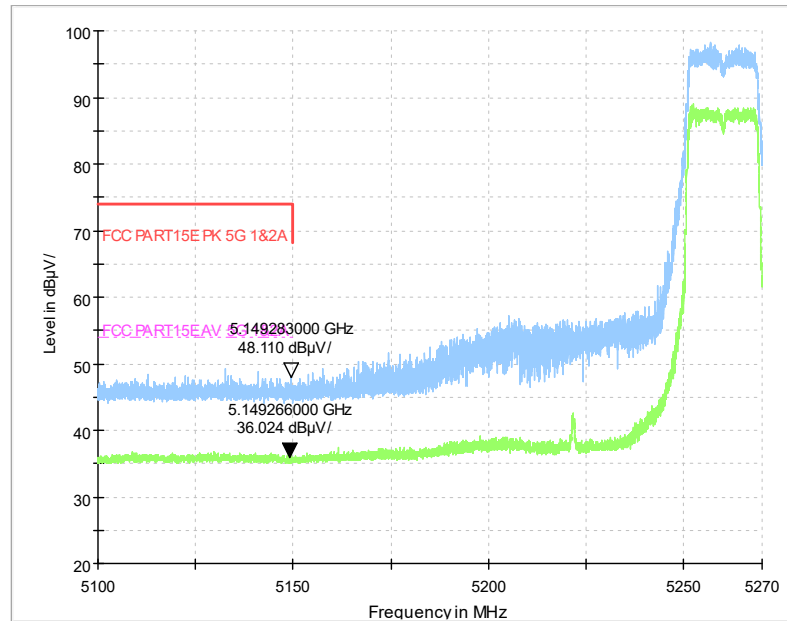


Fig.218 Frequency Band Edge: 802.11ac(20M),CH52

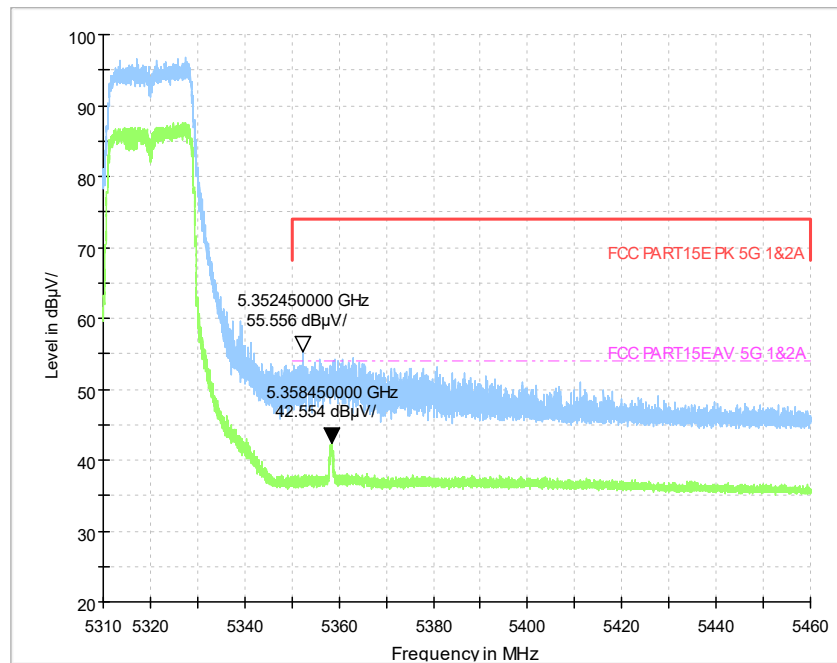


Fig.219 Frequency Band Edge: 802.11ac(20M),CH64

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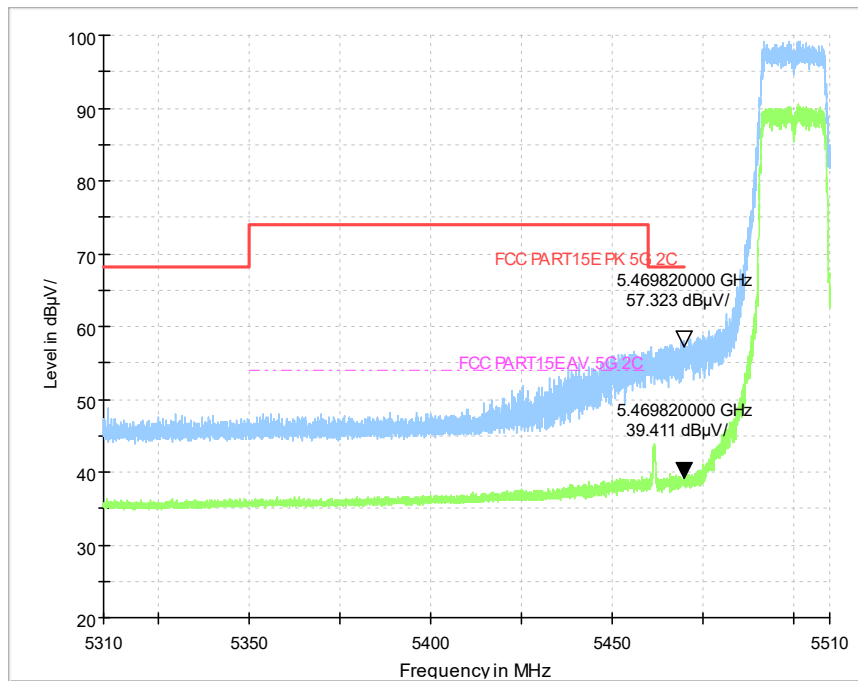


Fig.220 Frequency Band Edge: 802.11ac(20M),CH100

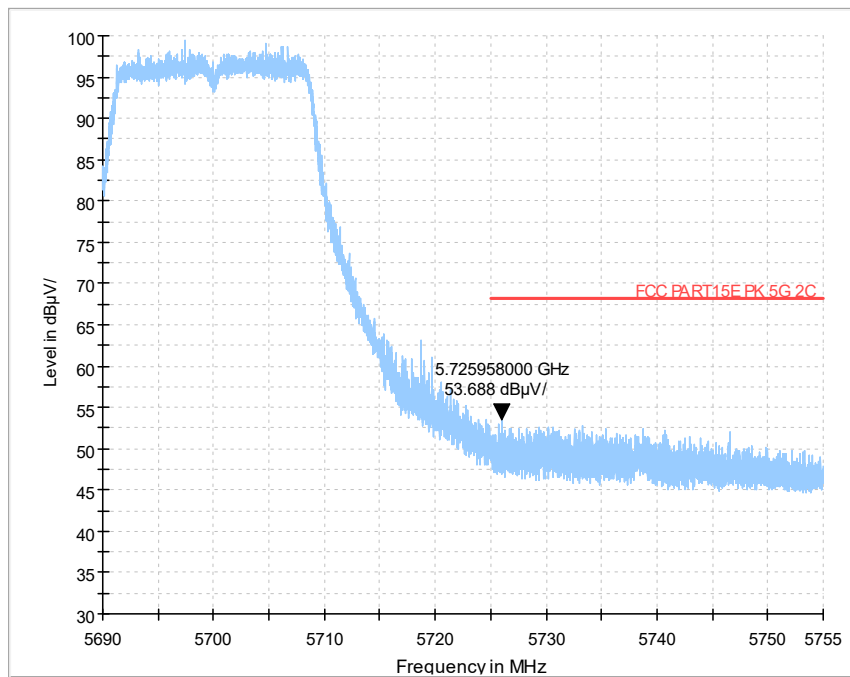


Fig.221 Frequency Band Edge: 802.11ac(20M),CH140

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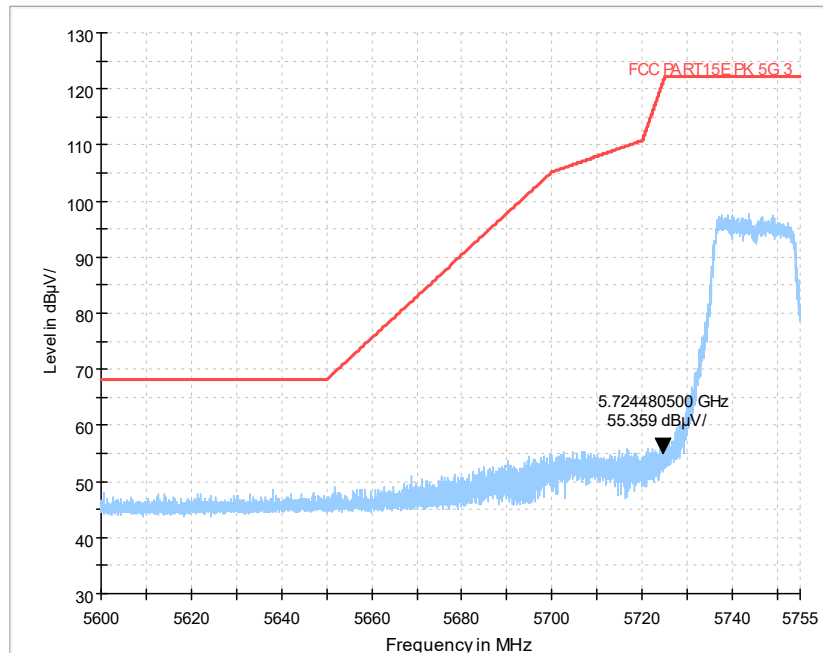


Fig.222 Frequency Band Edge: 802.11ac(20M),CH149

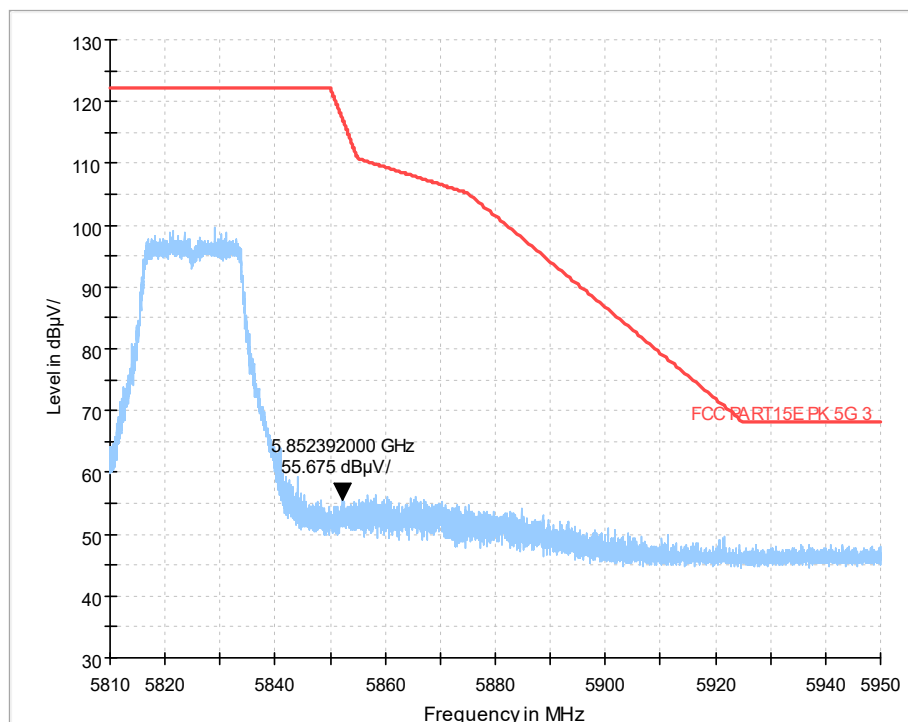


Fig.223 Frequency Band Edge: 802.11ac(20M),CH165

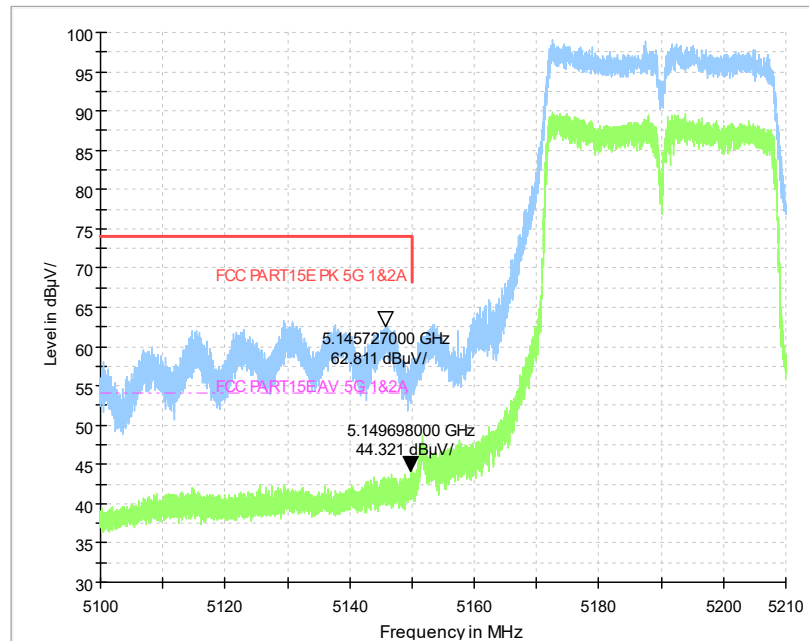


Fig.224 Frequency Band Edge: 802.11ac(40M),CH38

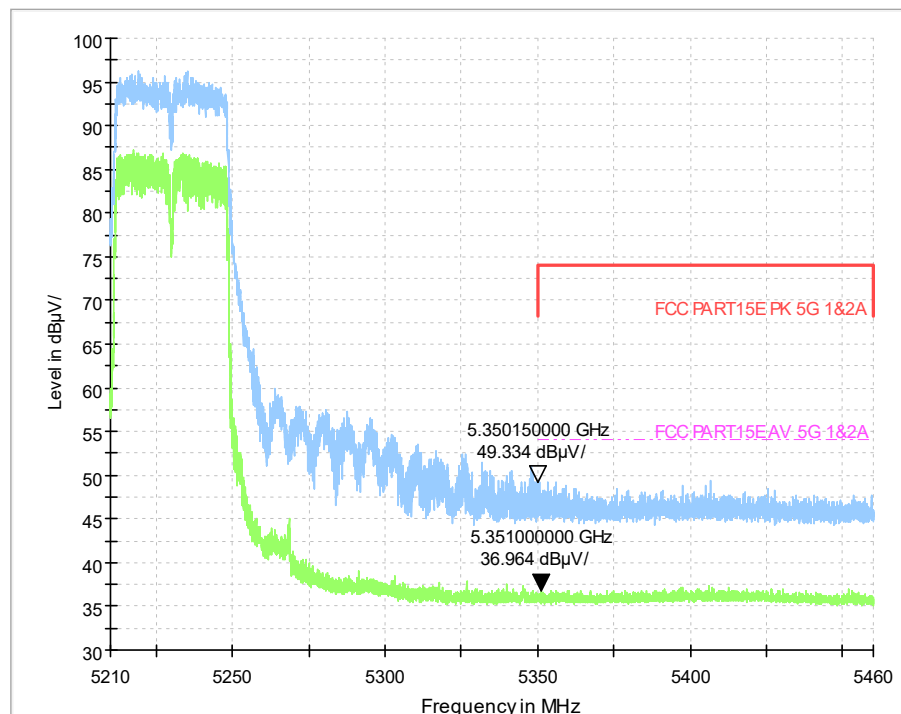


Fig.225 Frequency Band Edge: 802.11ac(40M),CH46

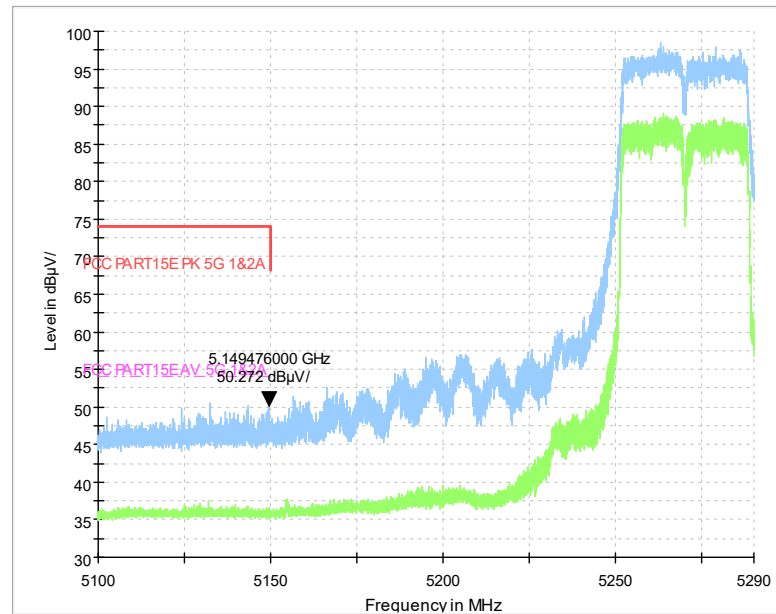


Fig.226 Frequency Band Edge: 802.11ac(40M),CH54

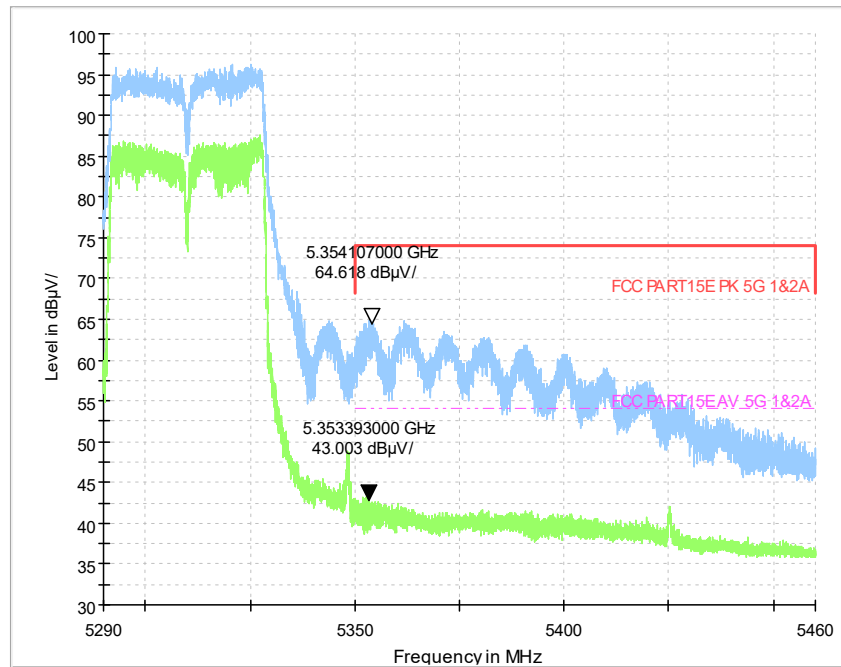


Fig.227 Frequency Band Edge: 802.11ac(40M),CH62

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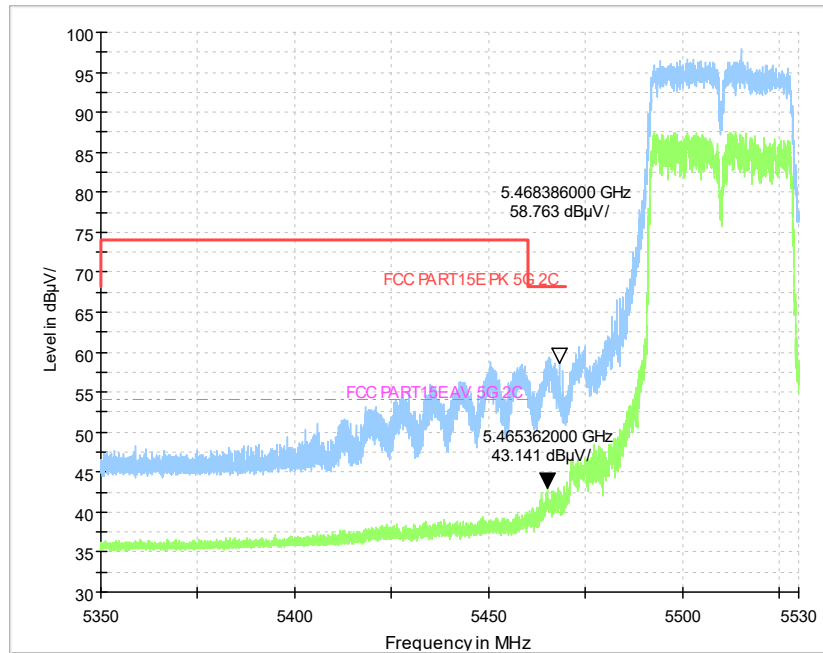


Fig.228 Frequency Band Edge: 802.11ac(40M),CH102

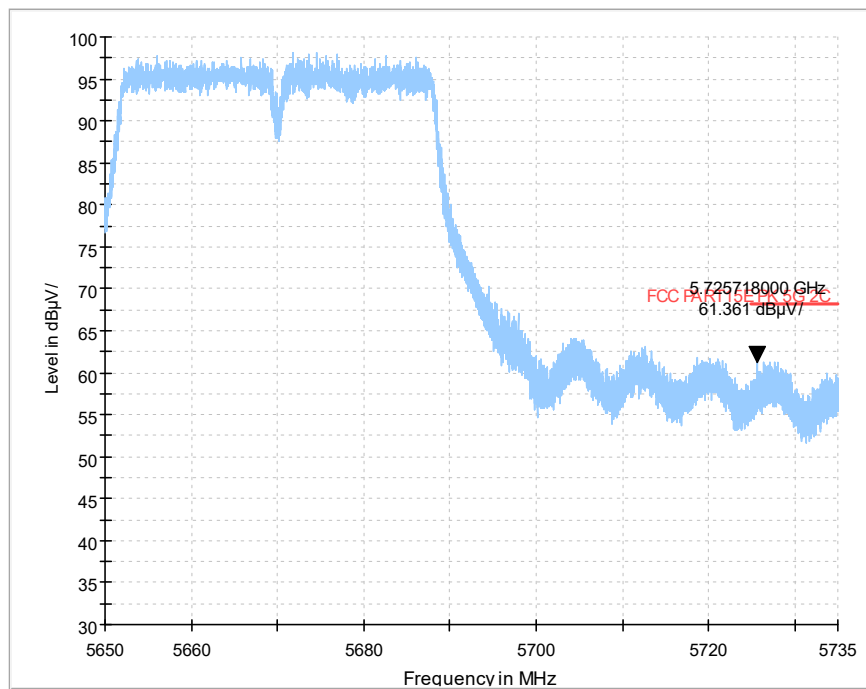


Fig.229 Frequency Band Edge: 802.11ac(40M),CH124

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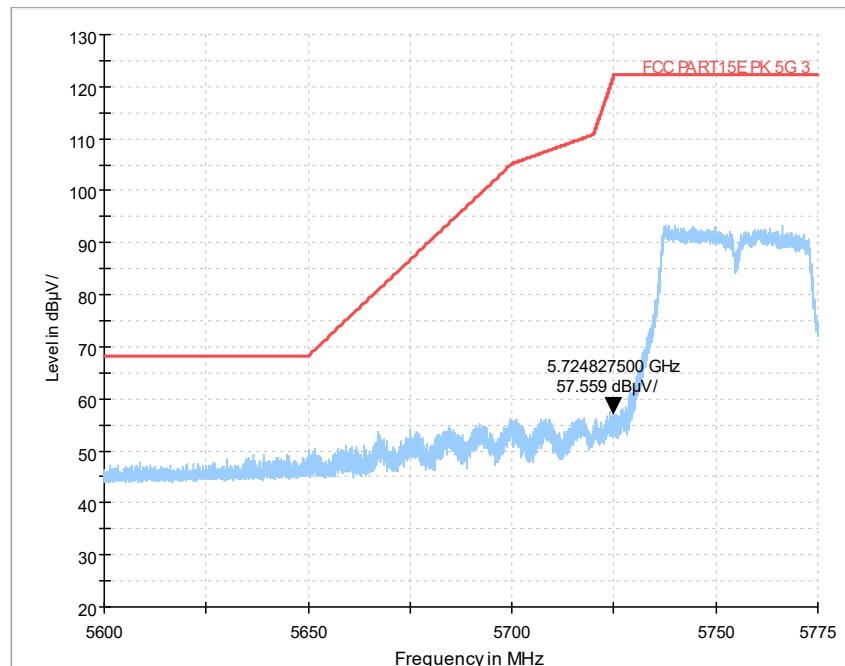


Fig.230 Frequency Band Edge: 802.11ac(40M),CH151

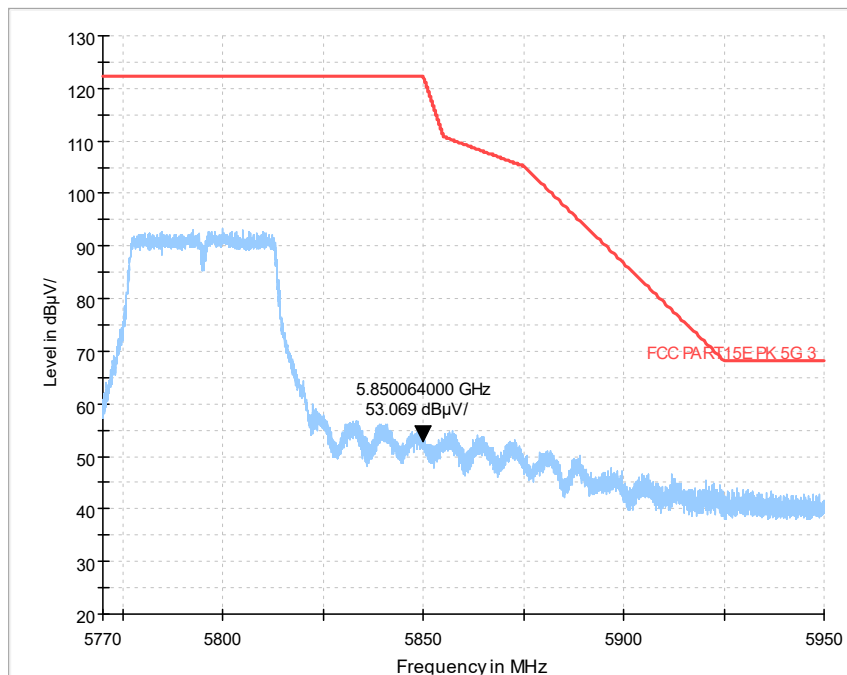


Fig.231 Frequency Band Edge: 802.11ac(40M),CH159

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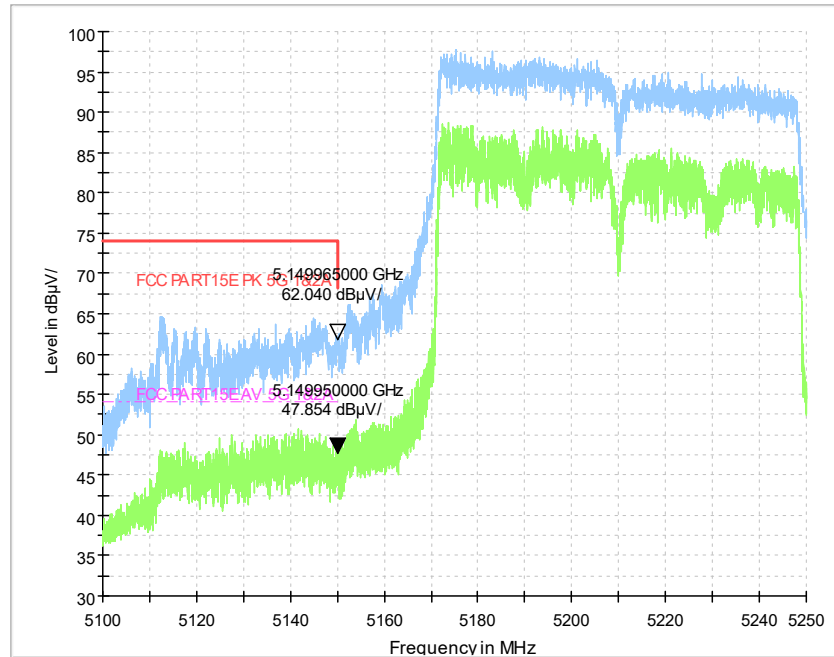


Fig.232 Frequency Band Edge: 802.11ac(80M),CH42

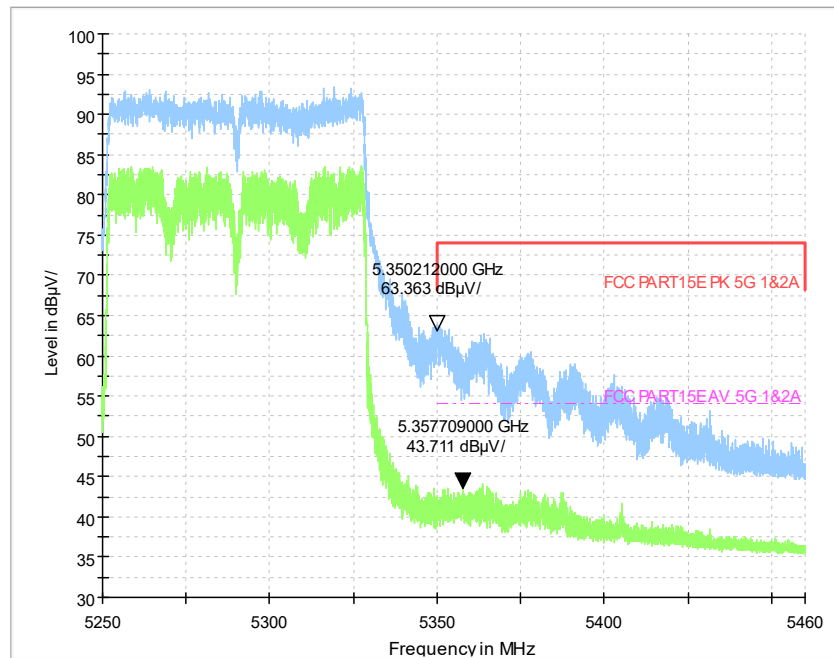


Fig.233 Frequency Band Edge: 802.11ac(80M),CH58

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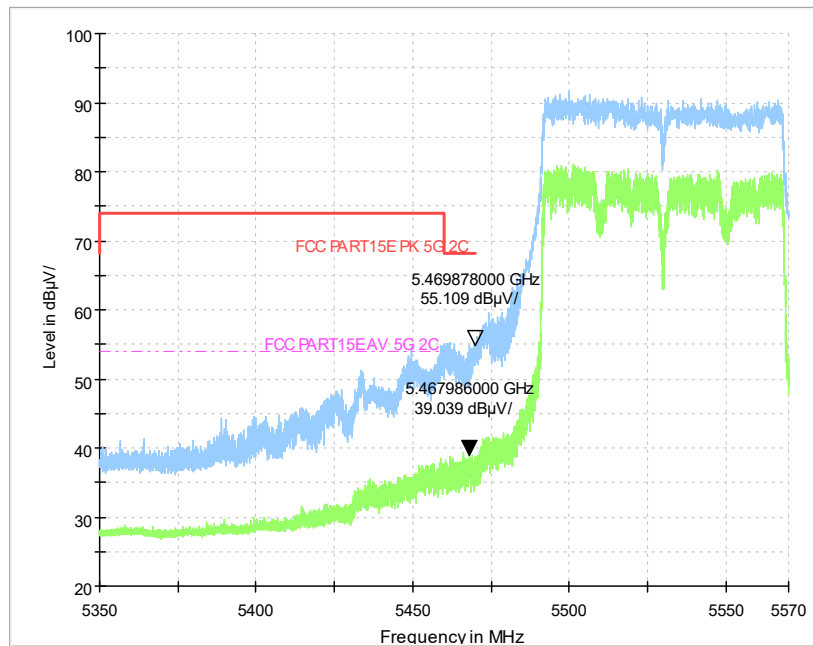


Fig.234 Frequency Band Edge: 802.11ac(80M),CH106

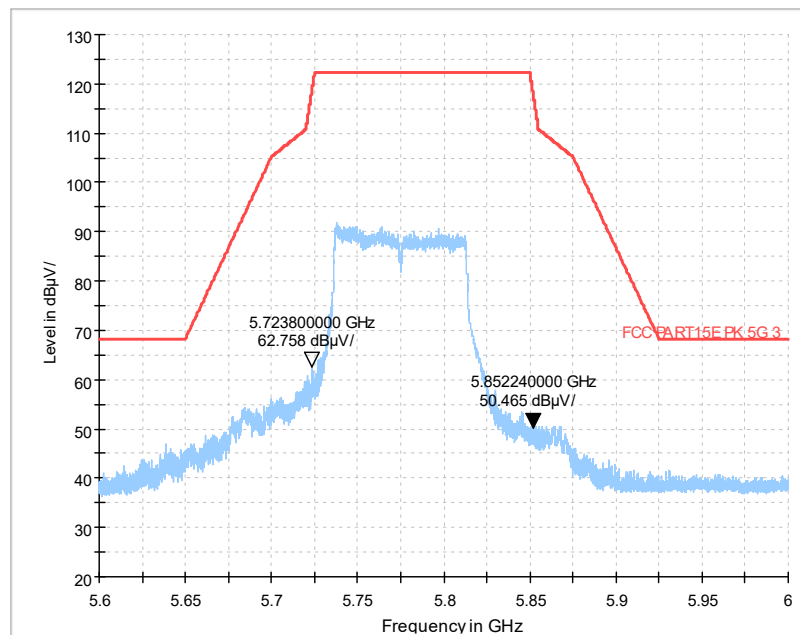


Fig.235 Frequency Band Edge: 802.11ac(80M),CH155

5.6 Radiated Spurious Emissions

Specifications:	FCC Part 15. 407 (b)
DUT Serial Number:	865171050693269 M900332GYA111300009
Test conditions:	Ambient Temperature:15℃-35℃ Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	Pass
Note:There are two kinds of antennas in this test, and the data reflect the worst data with large antenna gain	

Limit

According to Part 15.407(b)

For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.725-5.85 GHz band:

All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Measurement Uncertainty:

Frequency Range	Uncertainty
9kHz-30MHz	4.54dB
30MHz -1GHz	4.09dB
1GHz - 6GHz	4.84dB
6GHz - 18GHz	4.52dB
18GHz - 26GHz	6.19dB
26GHz - 40GHz	6.04dB

Limit in restricted band:

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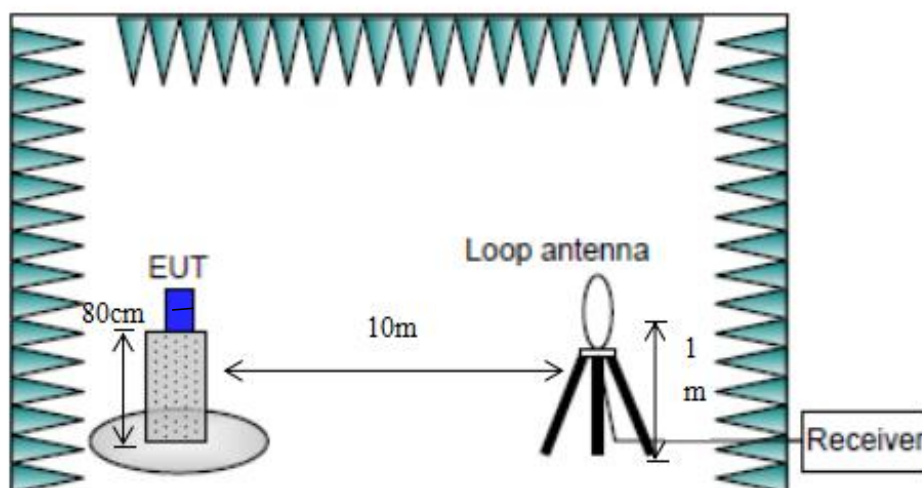
Frequency of emission (MHz)	Field strength (uV/m)	Measurement distance (meters)
0.009-0.49	2400/F(kHz)	300
0.49-1.705	24000/F(kHz)	30
1.705-30	30	30

Frequency of emission (MHz)	Field strength (uV/m)	Field strength (dBuV/m)
30~88	100	40
88~216	150	43.5
216~960	200	46
Above 960	500	54

Test Setup

The EUT was placed in an anechoic chamber. The BLUETOOTH TESTER was used to set the TX channel and power level. The transmitter output is connected to Spectrum analyzer through a loop antenna (for frequency below 30MHz) or a Bilog antenna (for frequency 30MHz-1GHz) or a horn antenna (for frequency above 1GHz).

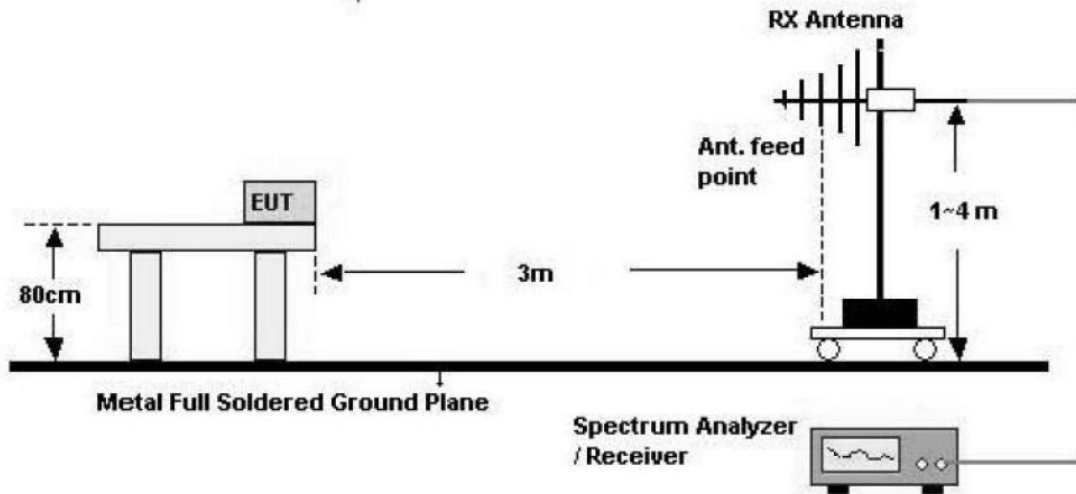
Below 30MHz:



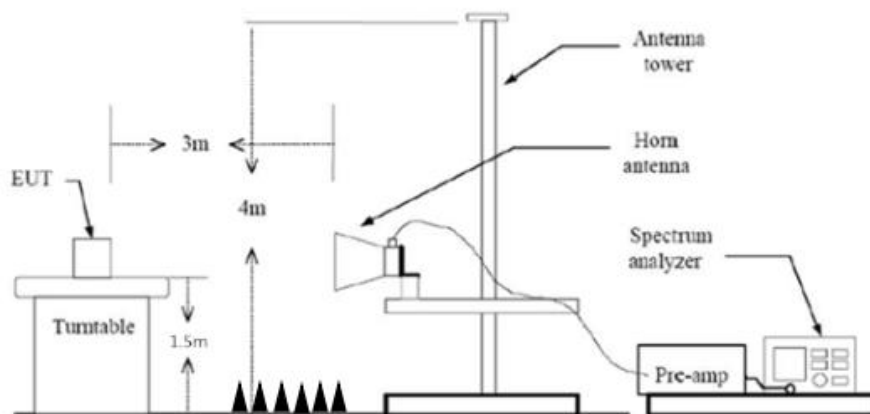
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30MHz-1GHz:



Above 1GHz:



Test Procedure

Portable, small, lightweight, or modular devices that may be handheld, worn on the body, or placed on a table during operation shall be positioned on a non-conducting platform, the top of which is 80 cm above the reference ground plane. The preferred area occupied by the EUT arrangement is 1 m by 1.5 m, but it may be larger or smaller to accommodate various sized EUTs. For testing purposes, ceiling- and wall-mounted devices also shall be positioned on a tabletop (see also ANSI C63.10-2013 section 6.3.4 and 6.3.5). In making any tests involving handheld, body-worn, or ceiling-mounted equipment, it is essential to recognize that the measured levels may be dependent on the orientation (attitude) of the three orthogonal axes of the EUT. Thus, exploratory tests as specified in 8.3.1 shall be carried out for various axes orientations to determine the attitude having maximum or near-maximum emission level.

The EUT was placed on a non-conductive table. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to

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identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

Frequency of emission (MHz)	RBW/VBW	Sweep Time
0.009~30	10kHz/30KHz	5
30~1000	100KHz/300KHz	5s
1000~3000	1MHz/3MHz	3s
3000~18000	1MHz/3MHz	7s
18000~26500	1MHz/3MHz	0.5s
26500~40000	1MHz/3MHz	0.5s

Test Result:

A “reference path loss” is established and AR_{pi} is the attenuation of “reference path loss”, and including the gain of receive antenna , the gain of the preamplifier, the cable loss.

The measurement results are obtained as described below:

AR_{pi}= Cable loss + Antenna Gain-Preamplifier gain

Result=PM_{ea} + AR_{pi}

Mode	Channel	Frequency Range	Test Results	Conclusion
All channels		30MH-1GHz	Fig.236	Pass
802.11a	36	1GHz-6GHz	Fig.237	Pass
		6GHz-18GHz	Fig.238	
	40	1GHz-6GHz	Fig.239	Pass
		6GHz-18GHz	Fig.240	
	48	1GHz-6GHz	Fig.241	Pass
		6GHz-18GHz	Fig.242	
	52	1GHz-6GHz	Fig.243	Pass
		6GHz-18GHz	Fig.244	
	60	1GHz-6GHz	Fig.245	Pass
		6GHz-18GHz	Fig.246	
	64	1GHz-6GHz	Fig.247	Pass
		6GHz-18GHz	Fig.248	
	100	1GHz-6GHz	Fig.249	Pass
		6GHz-18GHz	Fig.250	
	116	1GHz-6GHz	Fig.251	Pass
		6GHz-18GHz	Fig.252	

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	140	1GHz-6GHz	Fig.253	Pass
		6GHz-18GHz	Fig.254	
	149	1GHz-6GHz	Fig.255	Pass
		6GHz-18GHz	Fig.256	
	157	1GHz-6GHz	Fig.257	Pass
		6GHz-18GHz	Fig.258	
	165	1GHz-6GHz	Fig.259	Pass
		6GHz-18GHz	Fig.260	
802.11n(20M)	36	1GHz-6GHz	Fig.261	Pass
		6GHz-18GHz	Fig.262	
	40	1GHz-6GHz	Fig.263	Pass
		6GHz-18GHz	Fig.264	
	48	1GHz-6GHz	Fig.265	Pass
		6GHz-18GHz	Fig.266	
	52	1GHz-6GHz	Fig.267	Pass
		6GHz-18GHz	Fig.268	
	60	1GHz-6GHz	Fig.269	Pass
		6GHz-18GHz	Fig.270	
	64	1GHz-6GHz	Fig.271	Pass
		6GHz-18GHz	Fig.272	
	100	1GHz-6GHz	Fig.273	Pass
		6GHz-18GHz	Fig.274	
	116	1GHz-6GHz	Fig.275	Pass
		6GHz-18GHz	Fig.276	
	140	1GHz-6GHz	Fig.277	Pass
		6GHz-18GHz	Fig.278	
	149	1GHz-6GHz	Fig.279	Pass
		6GHz-18GHz	Fig.280	
	157	1GHz-6GHz	Fig.281	Pass
		6GHz-18GHz	Fig.282	
	165	1GHz-6GHz	Fig.283	Pass
		6GHz-18GHz	Fig.284	
802.11n(40M)	38	1GHz-6GHz	Fig.285	Pass
		6GHz-18GHz	Fig.286	
	46	1GHz-6GHz	Fig.287	Pass
		6GHz-18GHz	Fig.288	
	54	1GHz-6GHz	Fig.289	Pass
		6GHz-18GHz	Fig.290	
	62	1GHz-6GHz	Fig.291	Pass
		1GHz-6GHz	Fig.291	

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	102	6GHz-18GHz	Fig.292	Pass
		1GHz-6GHz	Fig.293	
		6GHz-18GHz	Fig.294	
	118	1GHz-6GHz	Fig.295	Pass
		6GHz-18GHz	Fig.296	
	134	1GHz-6GHz	Fig.297	Pass
		6GHz-18GHz	Fig.298	
	151	1GHz-6GHz	Fig.299	Pass
		6GHz-18GHz	Fig.300	
802.11ac(20M)	36	1GHz-6GHz	Fig.303	Pass
		6GHz-18GHz	Fig.304	
	40	1GHz-6GHz	Fig.305	Pass
		6GHz-18GHz	Fig.306	
	48	1GHz-6GHz	Fig.307	Pass
		6GHz-18GHz	Fig.308	
	52	1GHz-6GHz	Fig.309	Pass
		6GHz-18GHz	Fig.310	
	60	1GHz-6GHz	Fig.311	Pass
		6GHz-18GHz	Fig.312	
	64	1GHz-6GHz	Fig.313	Pass
		6GHz-18GHz	Fig.314	
	100	1GHz-6GHz	Fig.315	Pass
		6GHz-18GHz	Fig.316	
	116	1GHz-6GHz	Fig.317	Pass
		6GHz-18GHz	Fig.318	
	140	1GHz-6GHz	Fig.319	Pass
		6GHz-18GHz	Fig.320	
	149	1GHz-6GHz	Fig.321	Pass
		6GHz-18GHz	Fig.322	
802.11ac(40M)	38	1GHz-6GHz	Fig.323	Pass
		6GHz-18GHz	Fig.324	
	46	1GHz-6GHz	Fig.325	Pass
		6GHz-18GHz	Fig.326	
	38	1GHz-6GHz	Fig.327	Pass
		6GHz-18GHz	Fig.328	
	46	1GHz-6GHz	Fig.329	Pass
		6GHz-18GHz	Fig.330	

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	54	1GHz-6GHz	Fig.331	Pass
		6GHz-18GHz	Fig.332	
	62	1GHz-6GHz	Fig.333	Pass
		6GHz-18GHz	Fig.334	
	102	1GHz-6GHz	Fig.335	Pass
		6GHz-18GHz	Fig.336	
	118	1GHz-6GHz	Fig.337	Pass
		6GHz-18GHz	Fig.338	
	134	1GHz-6GHz	Fig.339	Pass
		6GHz-18GHz	Fig.340	
	151	1GHz-6GHz	Fig.341	Pass
		6GHz-18GHz	Fig.342	
159	1GHz-6GHz	Fig.343	Pass	
	6GHz-18GHz	Fig.344		
802.11ac(80M)	42	1GHz-6GHz	Fig.345	Pass
		6GHz-18GHz	Fig.346	
	58	1GHz-6GHz	Fig.347	Pass
		6GHz-18GHz	Fig.348	
	106	1GHz-6GHz	Fig.349	Pass
		6GHz-18GHz	Fig.350	
	122	1GHz-6GHz	Fig.351	Pass
		6GHz-18GHz	Fig.352	
	130	1GHz-6GHz	Fig.353	Pass
		6GHz-18GHz	Fig.354	
155	1GHz-6GHz	Fig.355	Pass	
	6GHz-18GHz	Fig.356		
All channels		18GHz-26.5GHz	Fig.357	Pass
All channels		26.5GHz-40GHz	Fig.358	Pass

Note: The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement –X, Y, and Z-plane. The X-plane results were found as the worst case and were shown in this report.

Transmitter Spurious Emission-Radiated H and V are tested together, The test result is maximum hold.

Therefore, the result is only one set of data. Found the emission level are attenuated 20dB below the limits for frequency range 9kHz to 30MHz, so it does not recorded in report.

The 30MHz-1GHz, 18GHz-26.5GHz and 26.5GHz-40GHz results were found as the worst case and were shown in this report.

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Report No.: I21W00040-WLAN_5.8G_Rev2

Conclusion: PASS

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Test graphs as below:

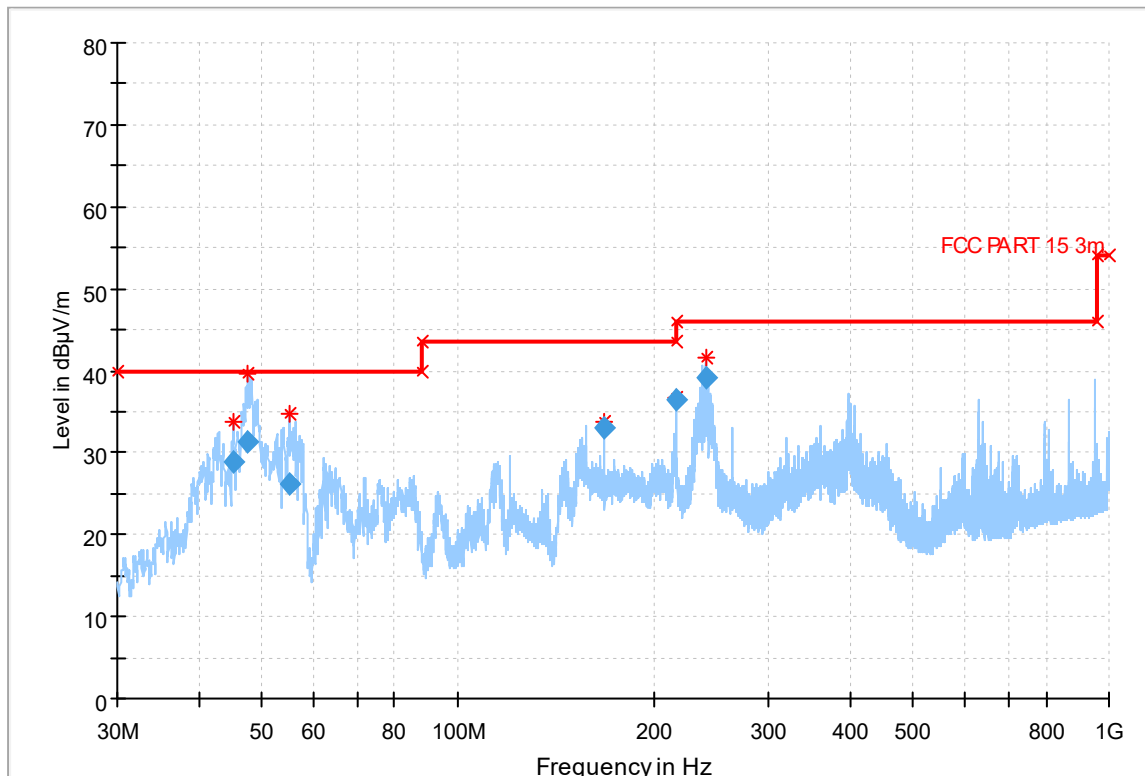


Fig.236 Radiated emission:11ac 80M CH122 30MHz-1GHz

Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
45.206000	28.94	40.00	11.06	1000.0	120.000	106.0	V	37.0
47.671000	31.39	40.00	8.61	1000.0	120.000	178.0	V	192.0
55.260000	26.19	40.00	13.81	1000.0	120.000	100.0	V	148.0
168.022500	33.12	43.50	10.38	1000.0	120.000	123.0	V	131.0
215.989000	36.41	43.50	6.09	1000.0	120.000	106.0	V	116.0
239.996500	39.20	46.00	6.80	1000.0	120.000	133.0	H	239.0

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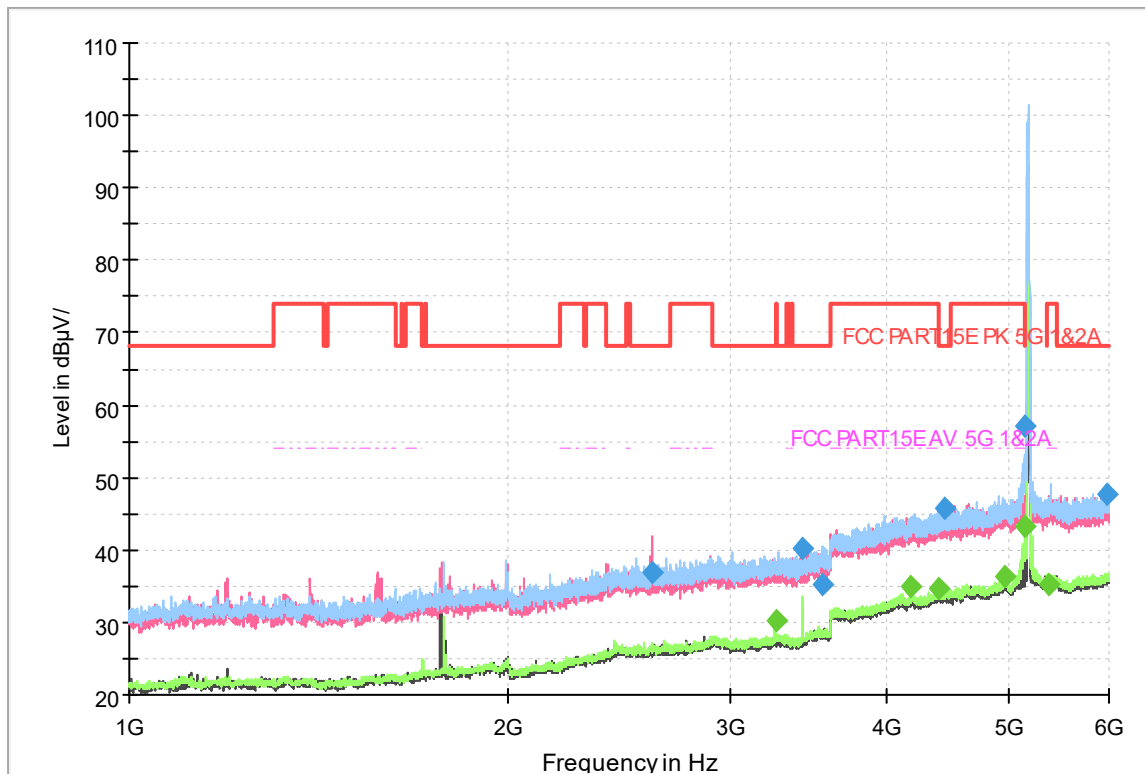


Fig.237 Radiated emission: 802.11a,CH36, 1GHz-6GHz

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
2599.000000	37.01	---	68.20	31.19	50.0	1000.000	150.0	V	225.0
3264.500000	---	30.26	54.00	30.74	50.0	1000.000	150.0	H	98.0
3421.500000	40.09	---	68.20	28.11	50.0	1000.000	150.0	H	48.0
3558.000000	35.26	---	68.20	32.94	50.0	1000.000	150.0	H	25.0
4177.000000	---	34.82	54.00	29.18	50.0	1000.000	150.0	V	254.0
4388.000000	---	34.75	54.00	29.25	50.0	1000.000	150.0	H	25.0
4439.500000	45.68	---	68.20	32.52	50.0	1000.000	150.0	H	0.0
4953.500000	---	36.36	54.00	27.64	50.0	1000.000	150.0	H	33.0
5142.000000	---	43.37	54.00	10.63	50.0	1000.000	150.0	H	41.0
5150.000000	57.16	---	68.20	11.04	50.0	1000.000	150.0	H	41.0
5385.000000	---	35.27	54.00	28.73	50.0	1000.000	150.0	H	120.0
5987.000000	47.83	---	68.20	30.37	50.0	1000.000	150.0	H	135.0

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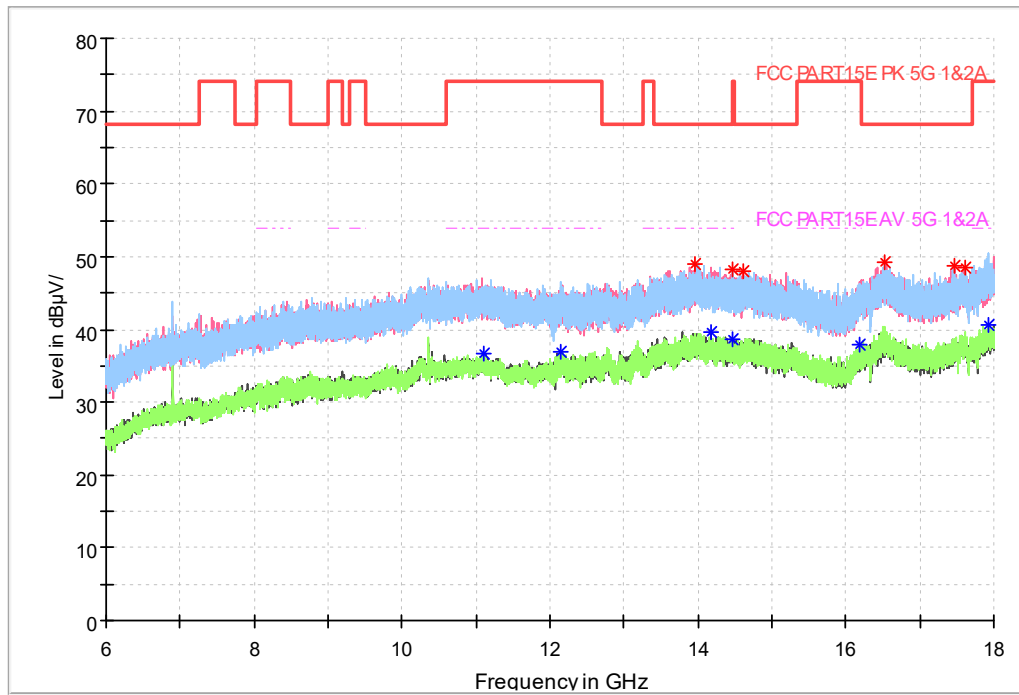


Fig.238 Radiated emission: 802.11a,CH36, 6GHz-18GHz

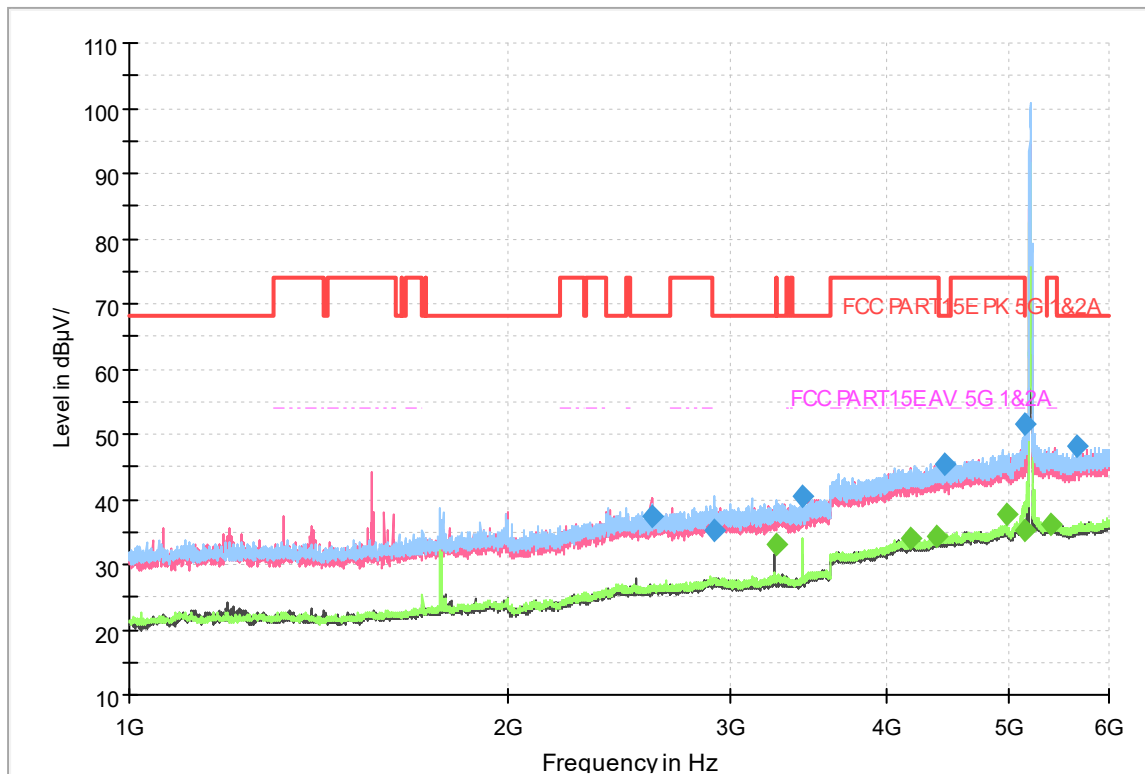


Fig.239 Radiated emission: 802.11a,CH40, 1GHz-6GHz

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
2597.500000	37.38	---	68.20	30.82	50.0	1000.000	150.0	V	262.0
2916.500000	35.26	---	68.20	32.94	50.0	1000.000	150.0	H	32.0
3263.000000	---	33.14	54.00	30.86	50.0	1000.000	150.0	H	106.0
3421.000000	40.43	---	68.20	27.77	50.0	1000.000	150.0	H	40.0
4168.000000	---	34.08	54.00	29.92	50.0	1000.000	150.0	H	18.0
4384.500000	---	34.20	54.00	29.80	50.0	1000.000	150.0	H	77.0
4449.500000	45.47	---	68.20	30.73	50.0	1000.000	150.0	H	32.0
4973.500000	---	37.56	54.00	26.44	50.0	1000.000	150.0	H	0.0
5145.500000	---	35.33	54.00	18.67	50.0	1000.000	150.0	H	47.0
5150.000000	51.51	---	68.20	16.69	50.0	1000.000	150.0	H	54.0
5400.500000	---	36.10	54.00	27.90	50.0	1000.000	150.0	H	143.0
5668.000000	48.04	---	68.20	30.16	50.0	1000.000	150.0	H	18.0

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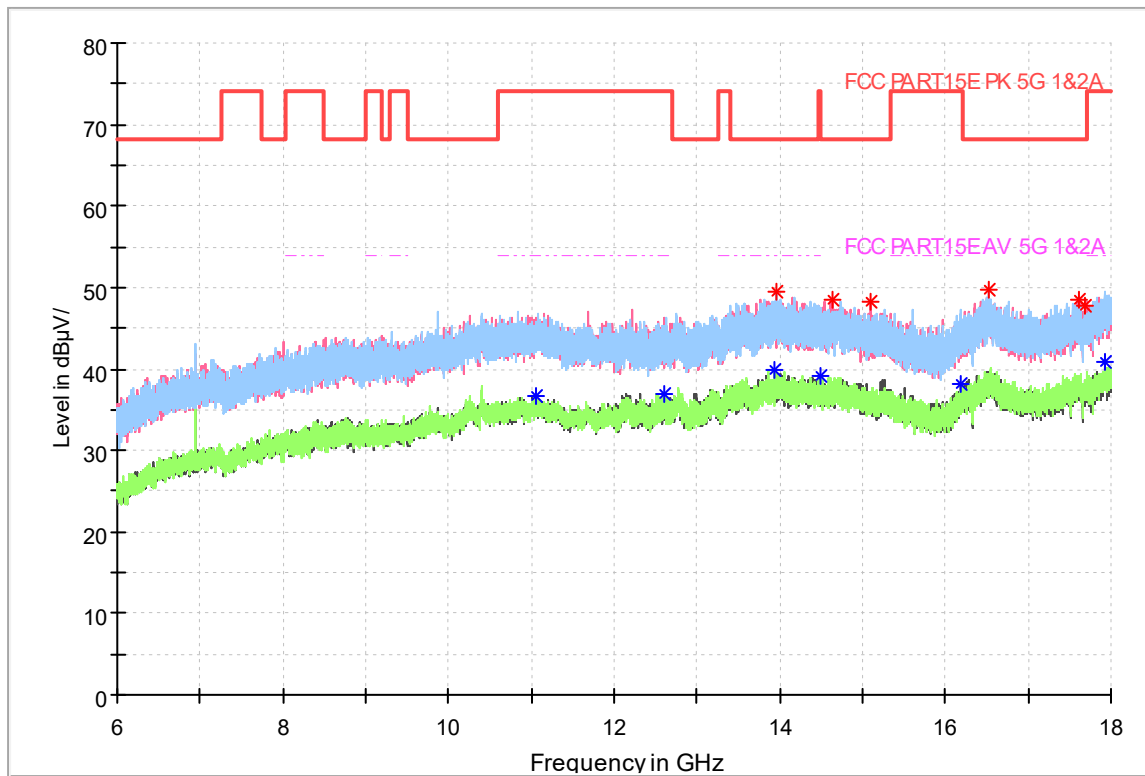


Fig.240 Radiated emission: 802.11a,CH40, 6GHz-18GHz

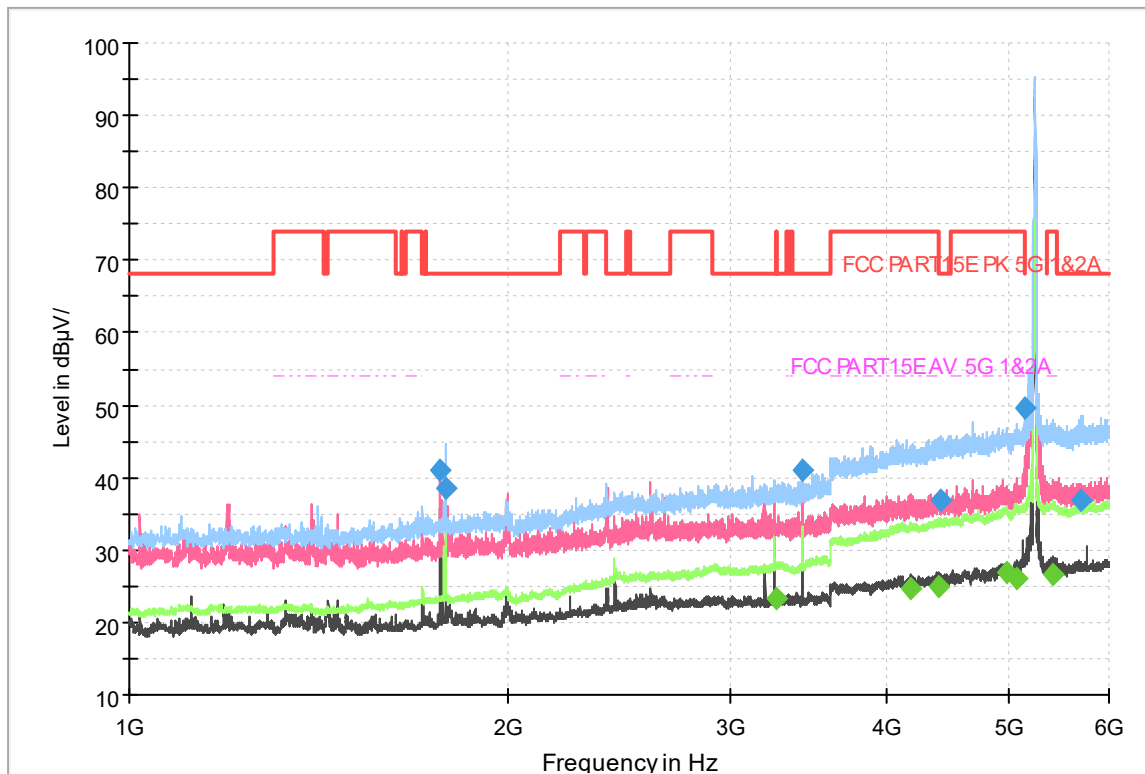


Fig.241 Radiated emission: 802.11a,CH48, 1GHz-6GHz

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
1766.500000	41.12	---	68.20	27.08	50.0	1000.000	150.0	V	14.0
1784.000000	38.57	---	68.20	29.63	50.0	1000.000	150.0	H	252.0
3267.000000	---	23.28	54.00	30.72	50.0	1000.000	150.0	H	188.0
3421.500000	40.89	---	68.20	27.31	50.0	1000.000	150.0	H	56.0
4177.000000	---	24.72	54.00	29.28	50.0	1000.000	150.0	H	86.0
4399.000000	---	24.91	54.00	29.09	50.0	1000.000	150.0	H	252.0
4414.000000	36.75	---	68.20	31.45	50.0	1000.000	150.0	H	238.0
4973.000000	---	26.77	54.00	27.23	50.0	1000.000	150.0	H	159.0
5068.000000	---	26.05	54.00	27.95	50.0	1000.000	150.0	H	224.0
5150.000000	49.55	---	74.00	18.65	50.0	1000.000	150.0	H	29.0
5406.500000	---	26.70	54.00	27.30	50.0	1000.000	150.0	H	188.0
5708.500000	36.83	---	68.20	31.37	50.0	1000.000	150.0	H	145.0

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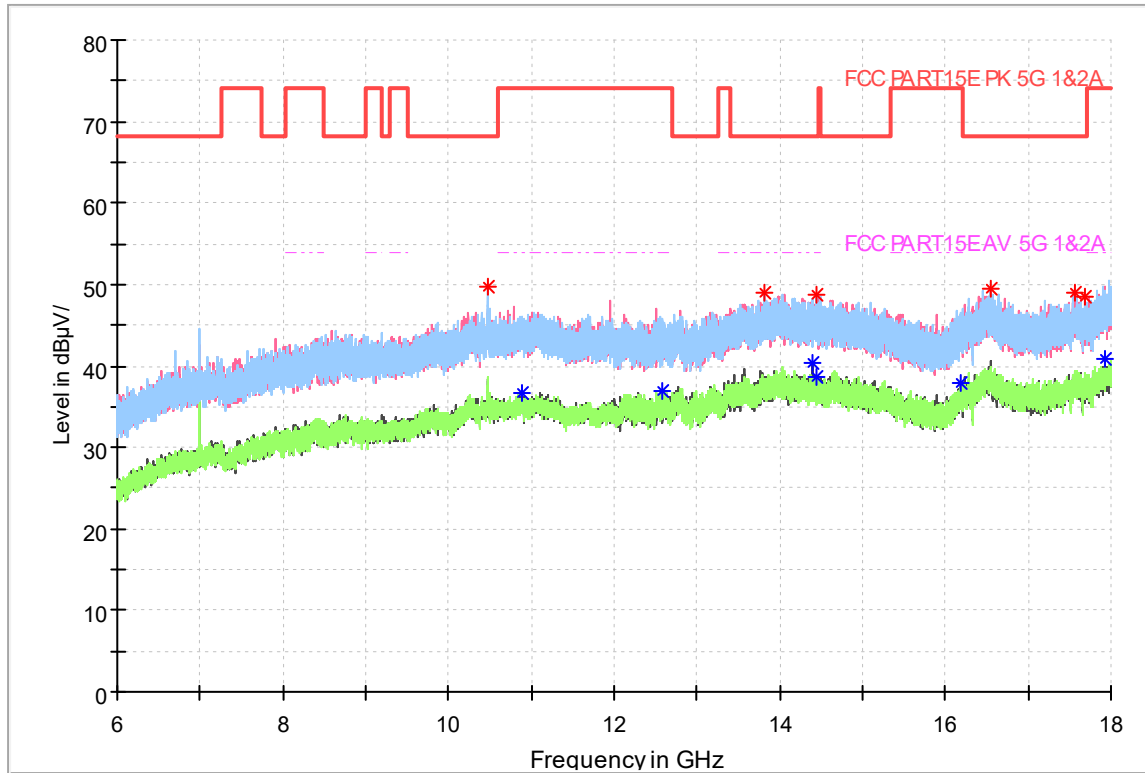


Fig.242 Radiated emission: 802.11a,CH48, 6GHz-18GHz

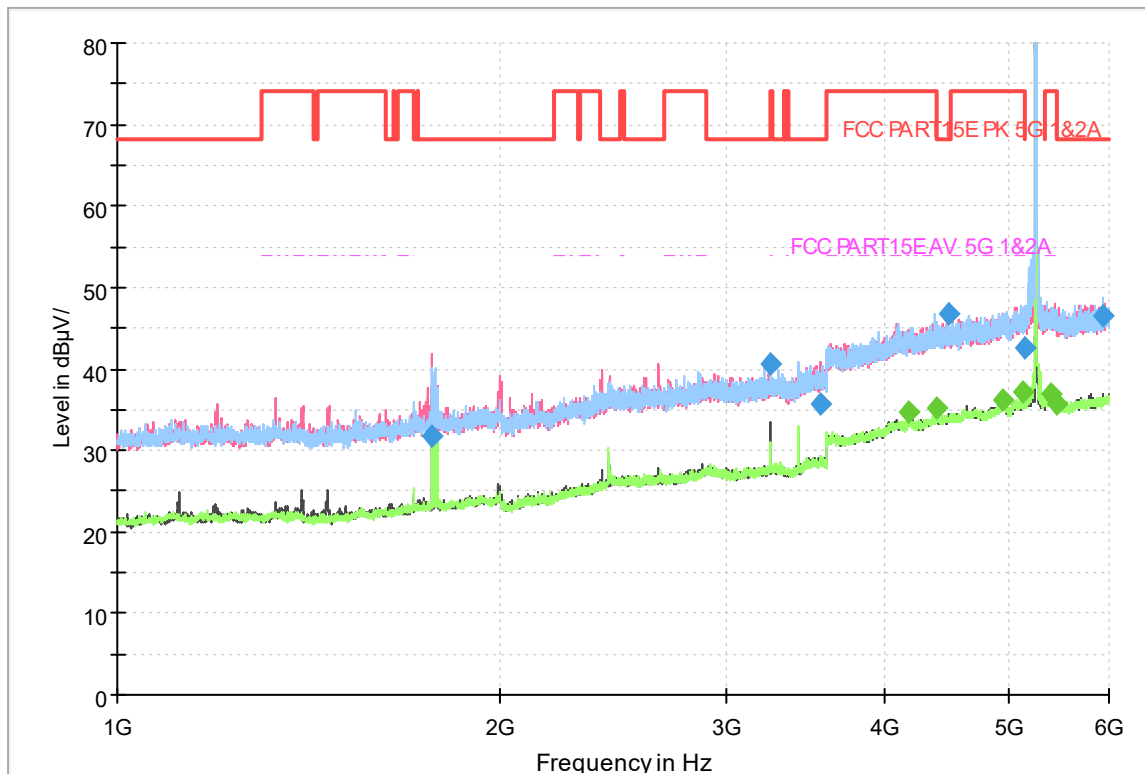


Fig.243 Radiated emission: 802.11a,CH52, 1GHz-6GHz

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
1766.000000	31.86	---	68.20	36.34	50.0	1000.000	150.0	V	124.0
3250.500000	40.52	---	68.20	27.68	50.0	1000.000	150.0	V	124.0
3565.000000	35.66	---	68.20	32.54	50.0	1000.000	150.0	V	153.0
4180.000000	---	34.78	54.00	29.22	50.0	1000.000	150.0	H	260.0
4398.500000	---	35.09	54.00	28.91	50.0	1000.000	150.0	H	100.0
4486.500000	46.67	---	68.20	31.53	50.0	1000.000	150.0	H	100.0
4956.000000	---	36.07	54.00	27.93	50.0	1000.000	150.0	H	189.0
5126.500000	---	37.15	54.00	26.85	50.0	1000.000	150.0	H	174.0
5150.000000	42.57	---	68.20	25.63	50.0	1000.000	150.0	H	174.0
5411.500000	---	36.82	54.00	27.18	50.0	1000.000	150.0	H	189.0
5457.500000	---	35.60	54.00	28.40	50.0	1000.000	150.0	V	116.0
5929.500000	46.47	---	68.20	31.73	50.0	1000.000	150.0	H	196.0

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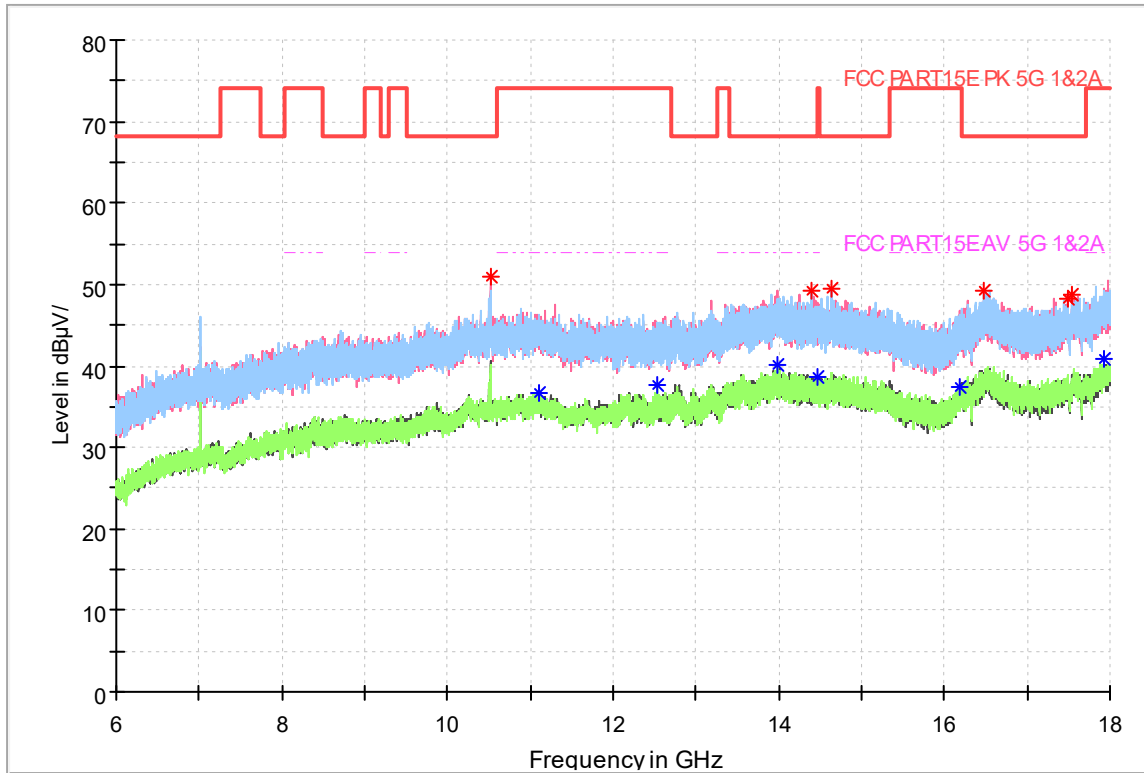


Fig.244 Radiated emission: 802.11a,CH52, 6GHz-18GHz

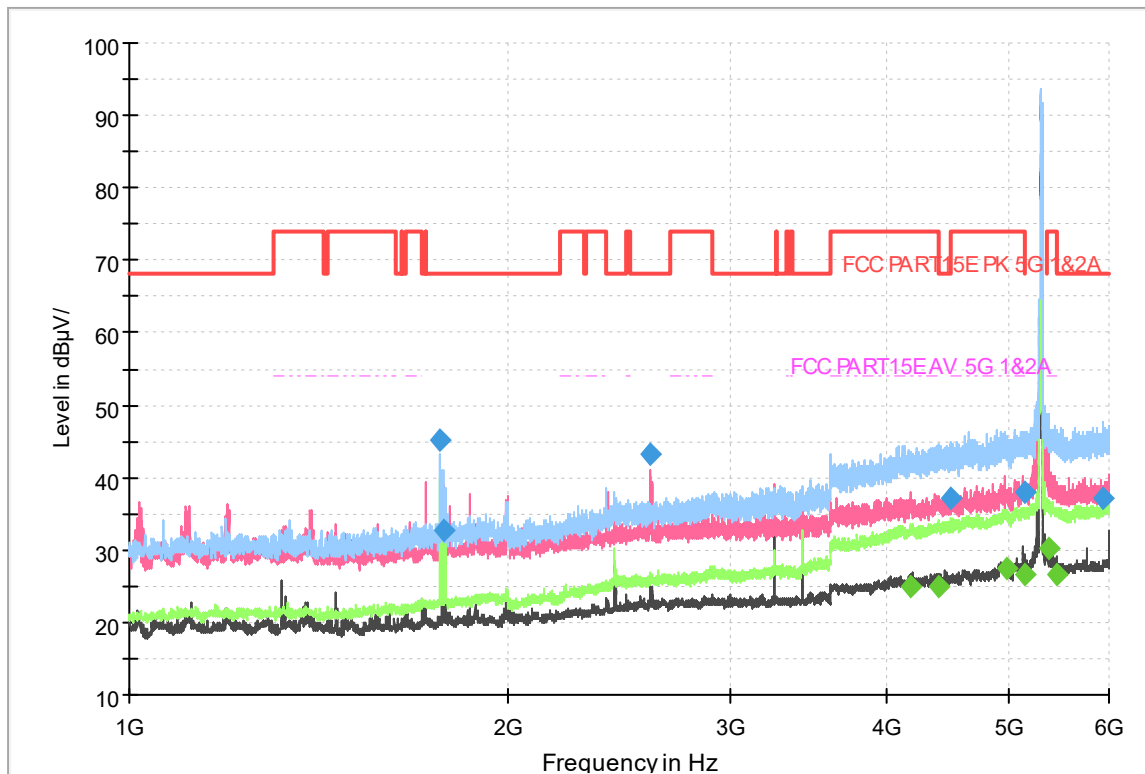


Fig.245 Radiated emission: 802.11a,CH60, 1GHz-6GHz

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
1766.000000	45.11	---	68.20	23.09	50.0	1000.000	150.0	H	123.0
1774.500000	32.64	---	68.20	35.56	50.0	1000.000	150.0	H	225.0
2592.500000	43.29	---	68.20	24.91	50.0	1000.000	150.0	V	34.0
4177.000000	---	24.84	54.00	29.16	50.0	1000.000	150.0	H	9.0
4396.500000	---	24.84	54.00	29.16	50.0	1000.000	150.0	H	22.0
4495.000000	37.13	---	68.20	31.07	50.0	1000.000	150.0	H	9.0
4973.000000	---	27.43	54.00	26.57	50.0	1000.000	150.0	H	9.0
5139.500000	---	26.69	54.00	27.31	50.0	1000.000	150.0	H	9.0
5150.000000	37.90	---	68.20	30.30	50.0	1000.000	150.0	H	22.0
5378.000000	---	30.27	54.00	23.73	50.0	1000.000	150.0	H	1.0
5460.000000	---	26.72	54.00	27.28	50.0	1000.000	150.0	H	1.0
5943.000000	37.24	---	68.20	30.96	50.0	1000.000	150.0	H	22.0

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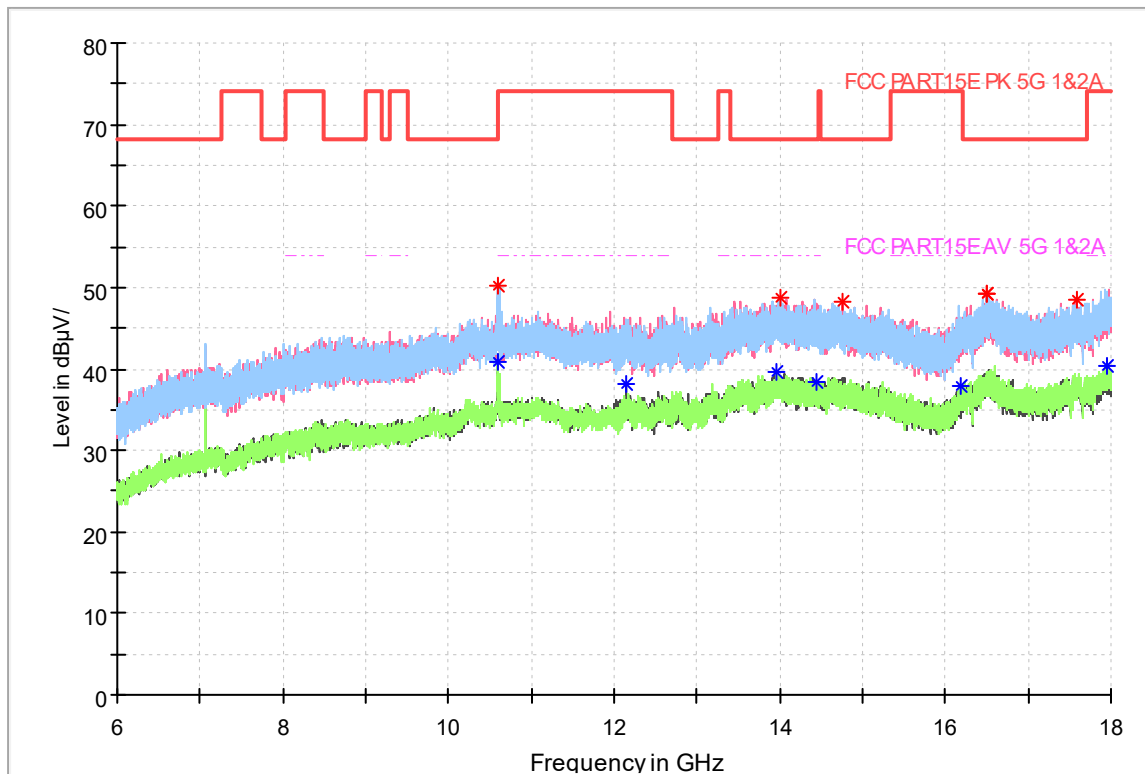


Fig.246 Radiated emission: 802.11a,CH60, 6GHz-18GHz

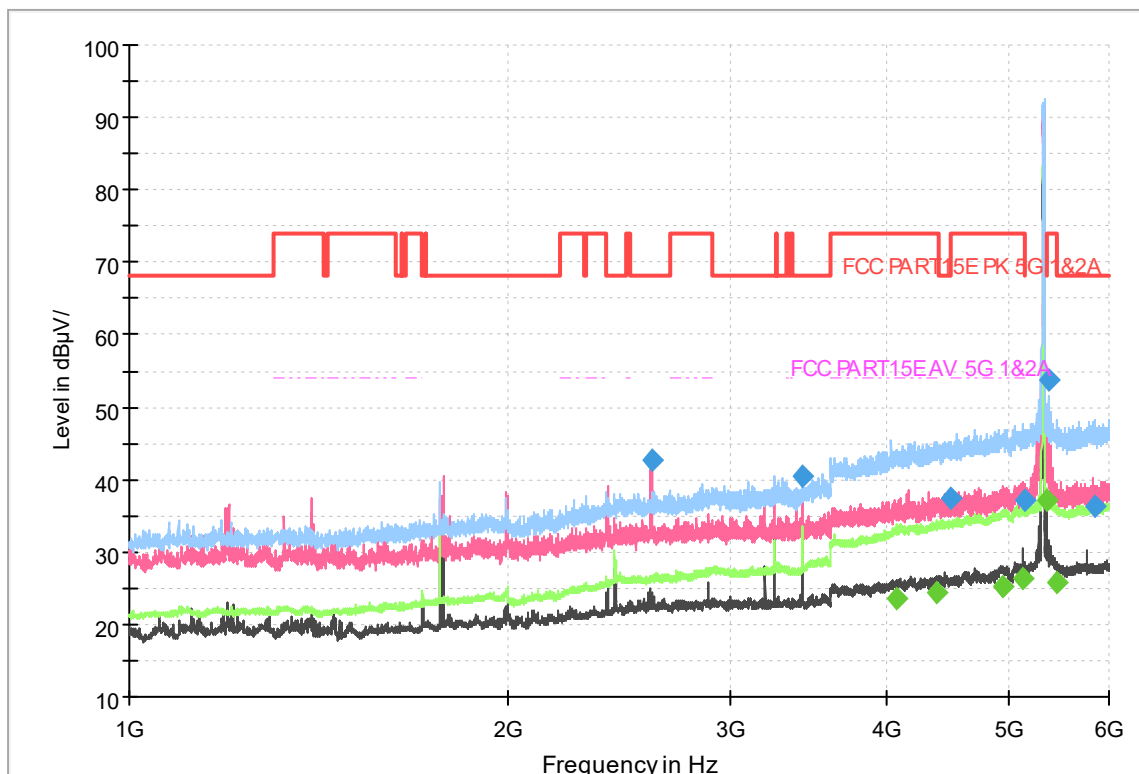


Fig.247 Radiated emission: 802.11a,CH64, 1GHz-6GHz

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
2598.000000	42.67	---	68.20	25.53	50.0	1000.000	150.0	V	36.0
3421.500000	40.39	---	68.20	27.81	50.0	1000.000	150.0	H	50.0
4073.000000	---	23.60	54.00	30.40	50.0	1000.000	150.0	H	124.0
4383.500000	---	24.35	54.00	29.65	50.0	1000.000	150.0	H	240.0
4486.000000	37.46	---	68.20	30.74	50.0	1000.000	150.0	H	240.0
4949.500000	---	25.10	54.00	28.90	50.0	1000.000	150.0	H	159.0
5128.000000	---	26.27	54.00	27.73	50.0	1000.000	150.0	H	216.0
5150.000000	37.14	---	68.20	31.06	50.0	1000.000	150.0	H	268.0
5358.500000	---	37.13	54.00	16.87	50.0	1000.000	150.0	H	167.0
5380.000000	53.77	---	74.00	20.23	50.0	1000.000	150.0	H	87.0
5455.000000	---	25.88	54.00	28.12	50.0	1000.000	150.0	H	159.0
5840.000000	36.18	---	68.20	32.02	50.0	1000.000	150.0	H	195.0

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