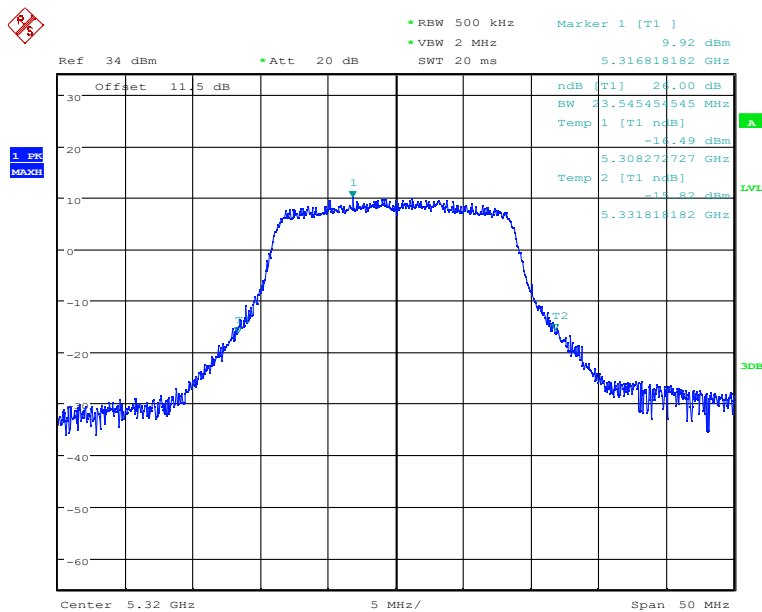


Date: 16.NOV.2021 00:14:32

Fig.106 26dB Bandwidth: Ch60,11n

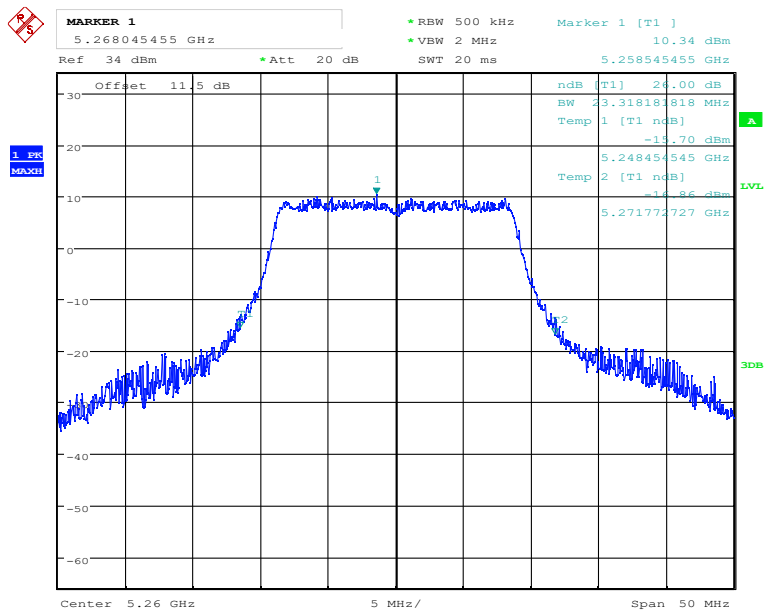


Date: 16.NOV.2021 00:14:58

Fig.107 26dB Bandwidth: Ch64,11n

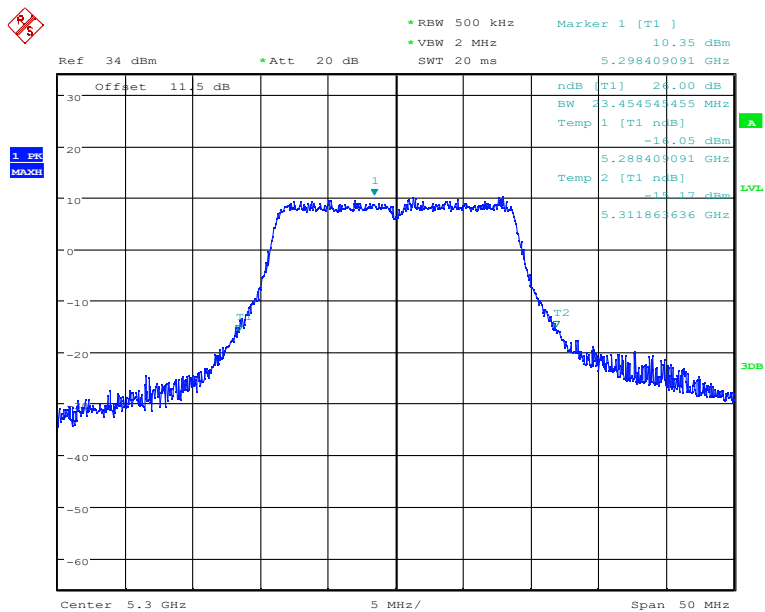
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Date: 16.NOV.2021 00:46:43

Fig.108 26dB Bandwidth: Ch52,11ac

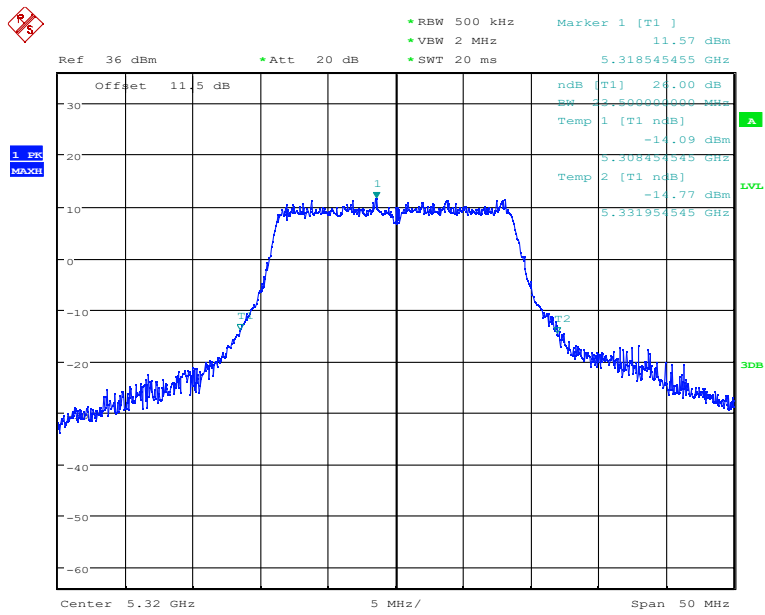


Date: 16.NOV.2021 00:47:09

Fig.109 26dB Bandwidth: Ch60,11ac

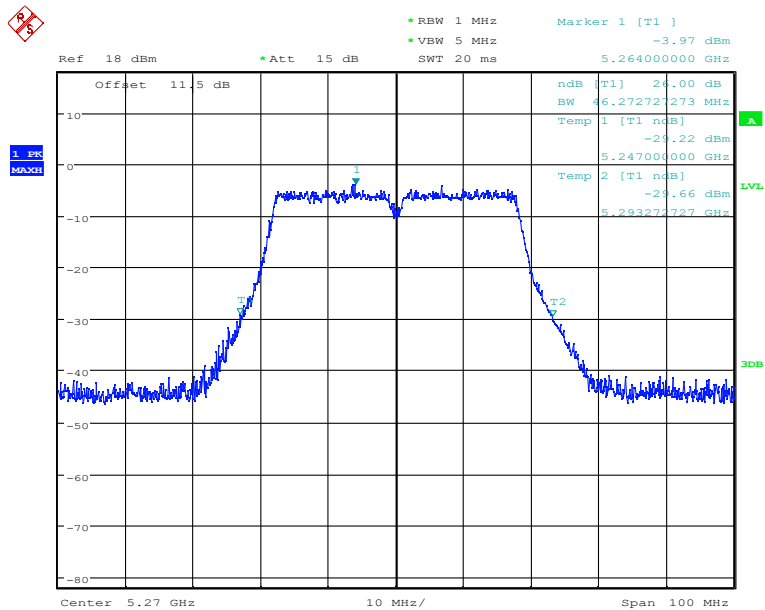
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Date: 16.NOV.2021 00:53:56

Fig.110 26dB Bandwidth: Ch64,11ac

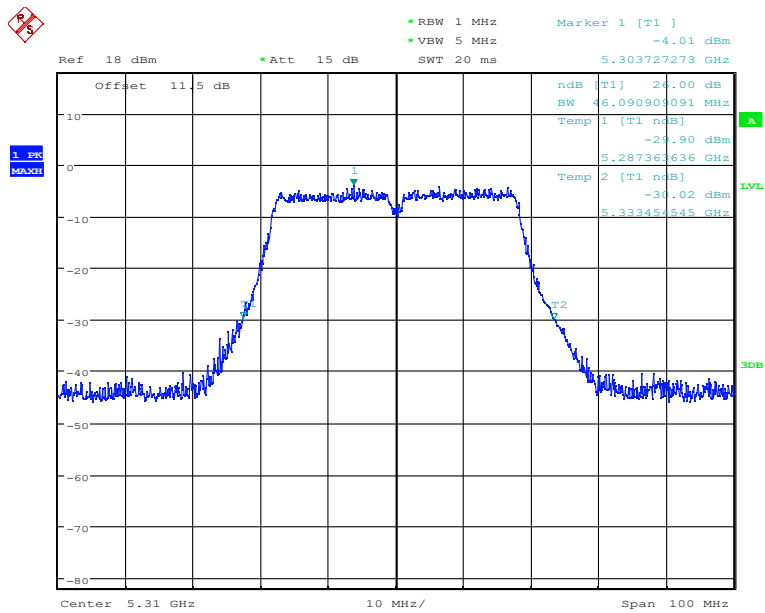


Date: 16.NOV.2021 00:20:04

Fig.111 26dB Bandwidth: Ch54,11n (40MHz)

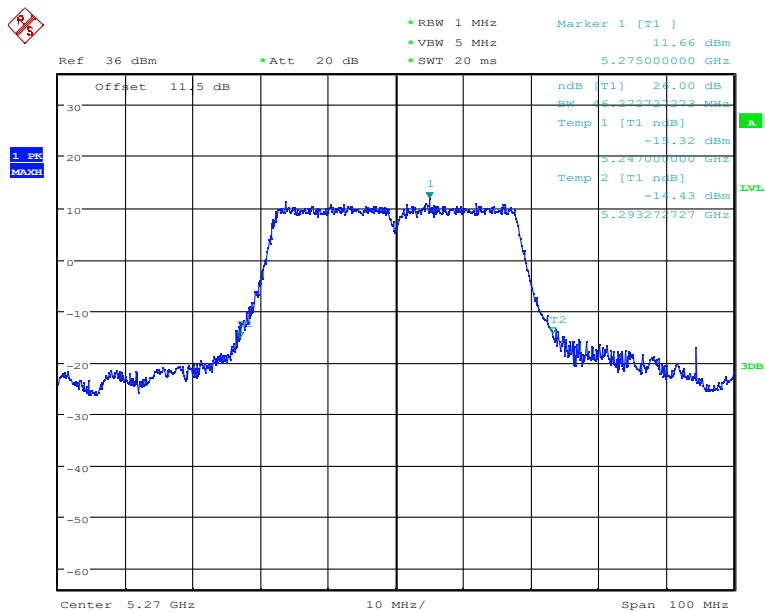
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Date: 16.NOV.2021 00:20:32

Fig.112 26dB Bandwidth: Ch62,11n (40MHz)

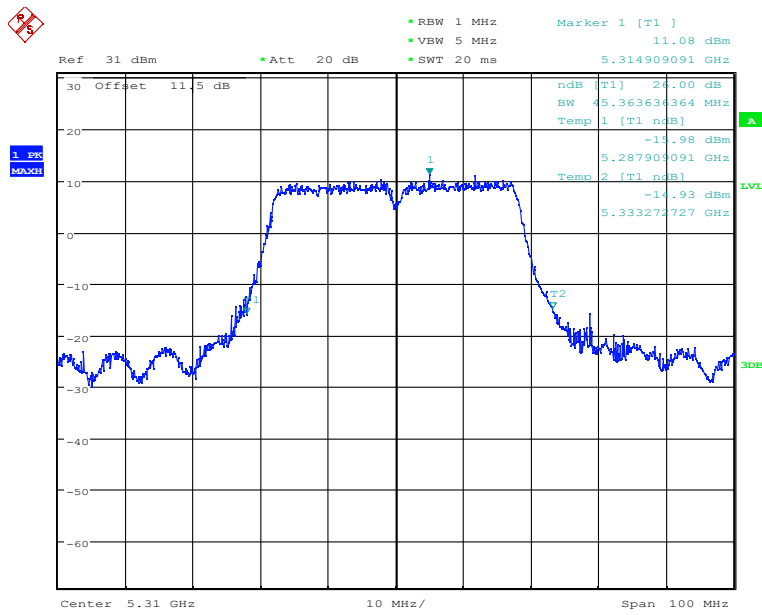


Date: 16.NOV.2021 00:55:07

Fig.113 26dB Bandwidth: Ch54,11ac (40MHz)

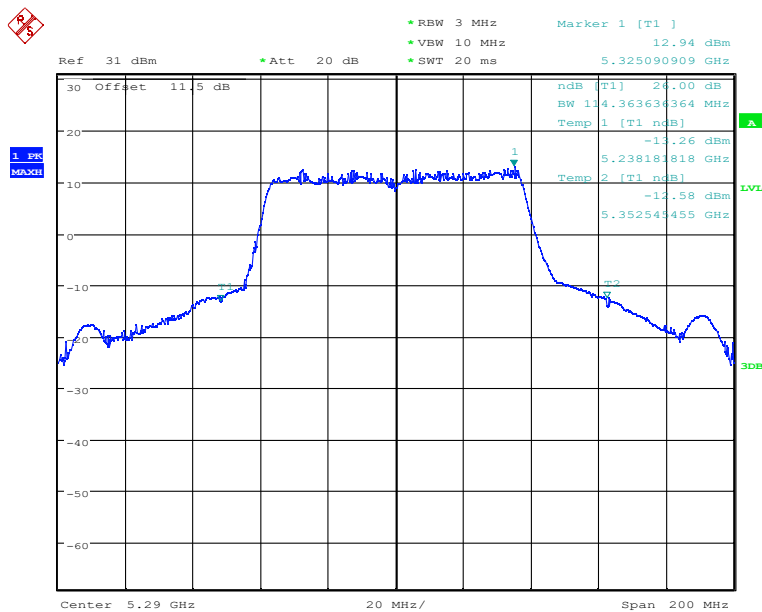
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Date: 16.NOV.2021 01:05:53

Fig.114 26dB Bandwidth: Ch62,11ac (40MHz)

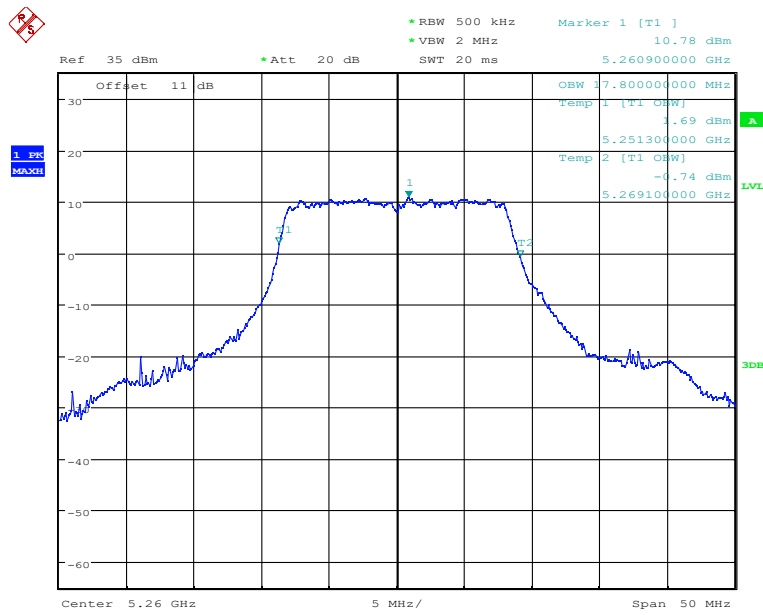


Date: 16.NOV.2021 01:07:00

Fig.115 26dB Bandwidth: Ch58,11ac (80MHz)

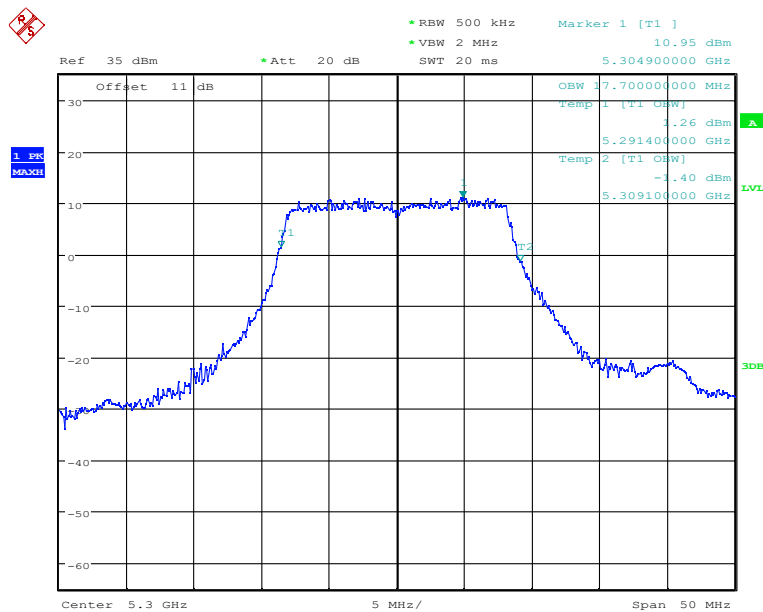
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Date: 15.NOV.2021 02:06:08

Fig.116 99% Bandwidth: Ch52,11a

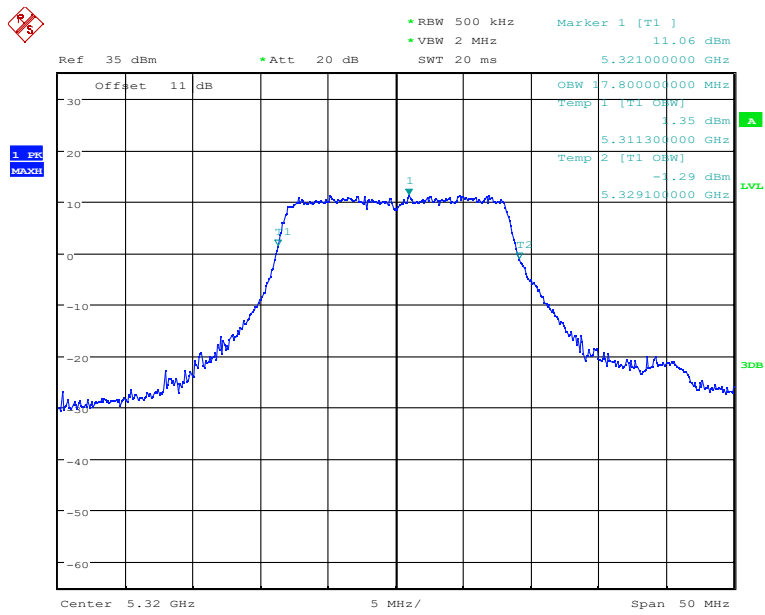


Date: 15.NOV.2021 02:11:10

Fig.117 99% Bandwidth: Ch60,11a

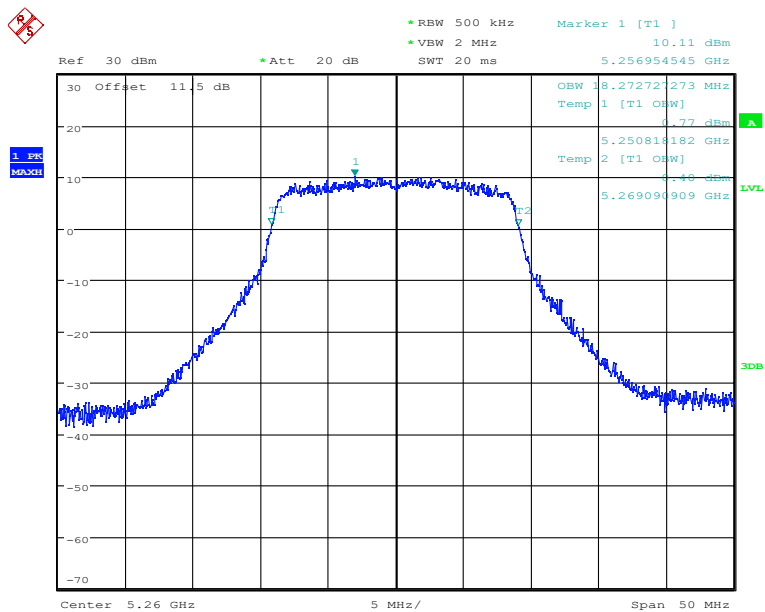
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Date: 15.NOV.2021 02:17:27

Fig.118 99% Bandwidth: Ch64,11a

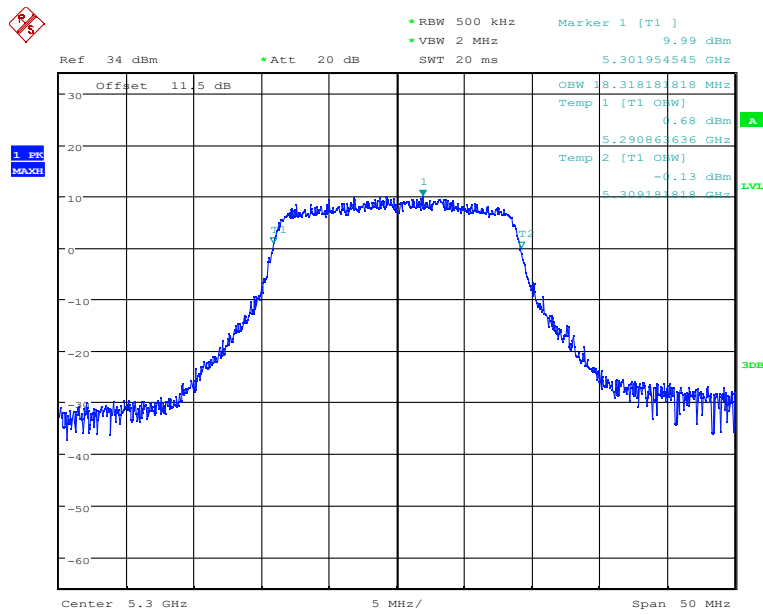


Date: 16.NOV.2021 00:11:43

Fig.119 99% Bandwidth: Ch52,11n

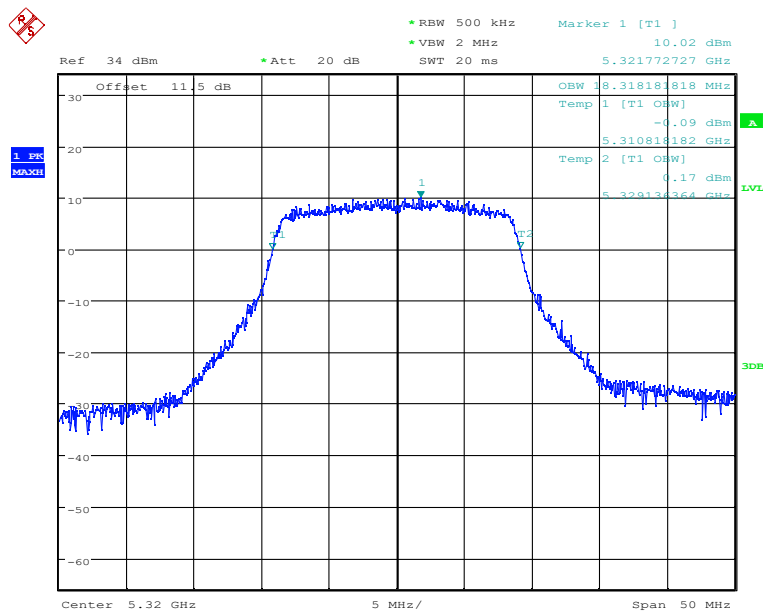
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Date: 16.NOV.2021 00:14:23

Fig.120 99% Bandwidth: Ch60,11n



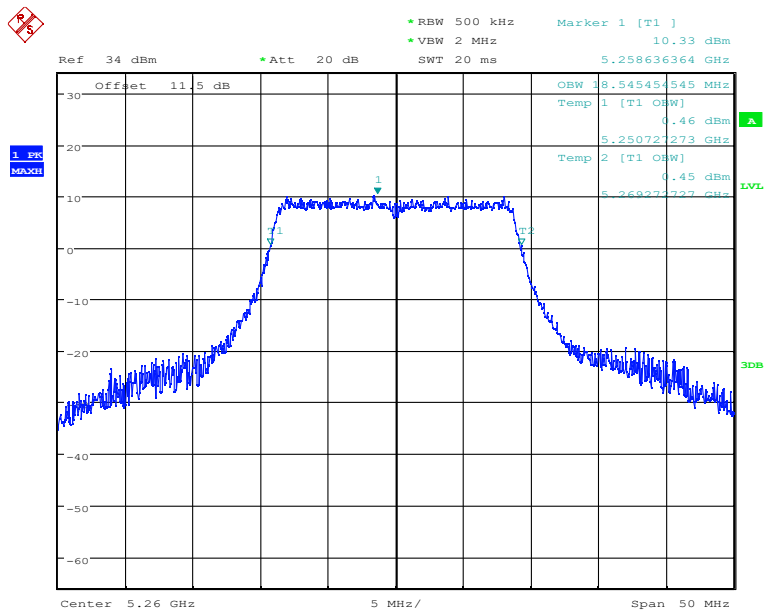
Date: 16.NOV.2021 00:15:11

Fig.121 99% Bandwidth: Ch64,11n

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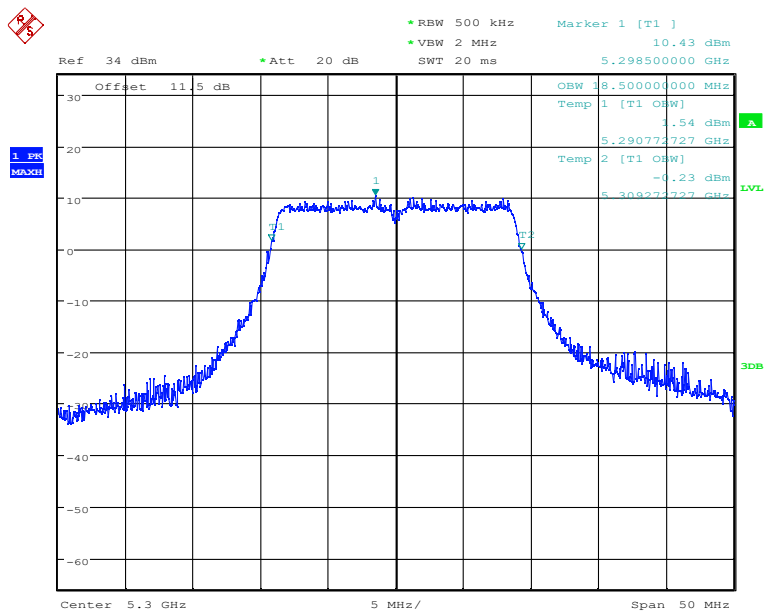
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Date: 16.NOV.2021 00:46:33

Fig.122 99% Bandwidth: Ch52,11ac

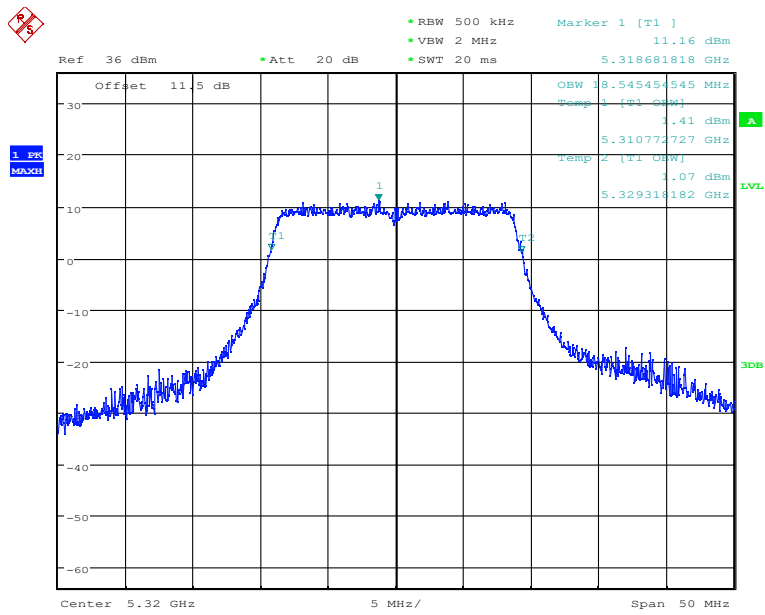


Date: 16.NOV.2021 00:47:18

Fig.123 99% Bandwidth: Ch60,11ac

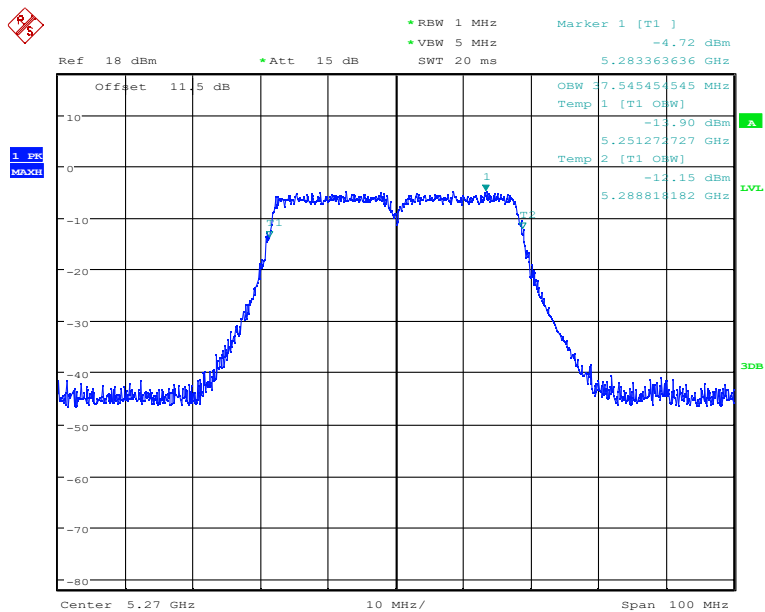
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Date: 16.NOV.2021 00:53:45

Fig.124 99% Bandwidth: Ch64,11ac

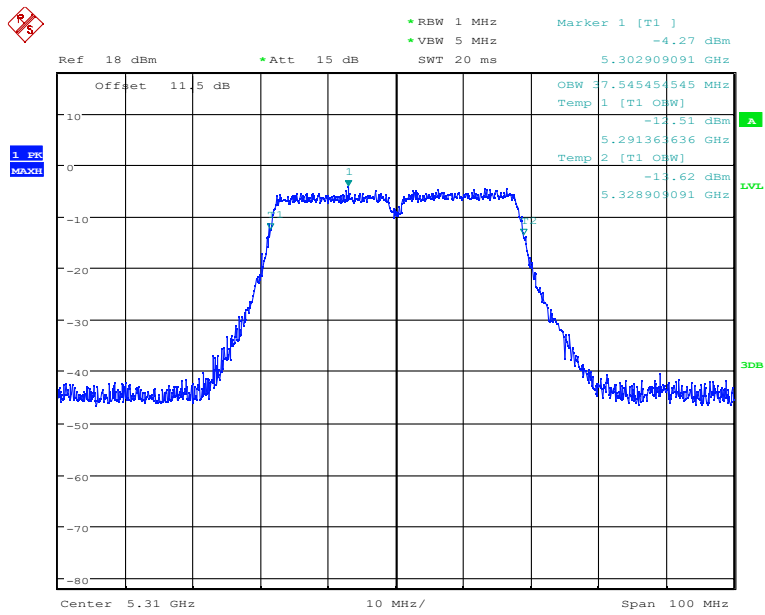


Date: 16.NOV.2021 00:19:55

Fig.125 99% Bandwidth: Ch54,11n (40MHz)

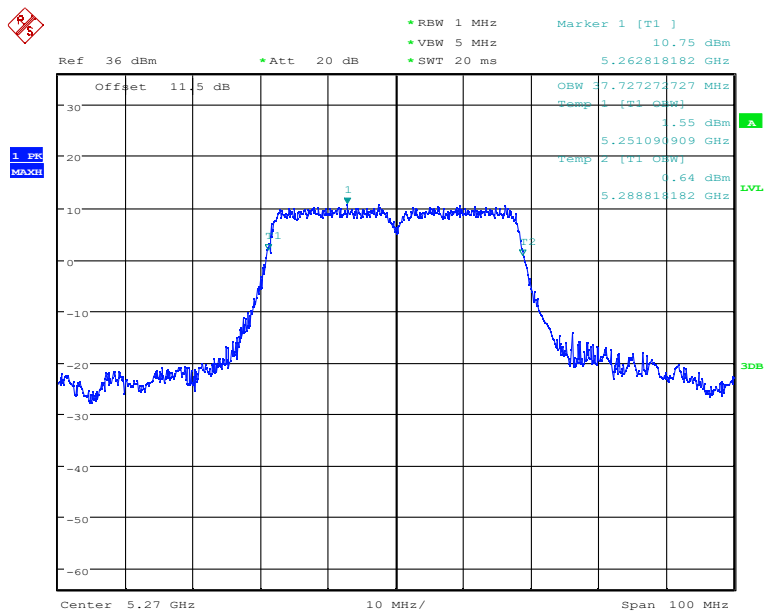
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Date: 16.NOV.2021 00:20:39

Fig.126 99% Bandwidth: Ch62,11n (40MHz)

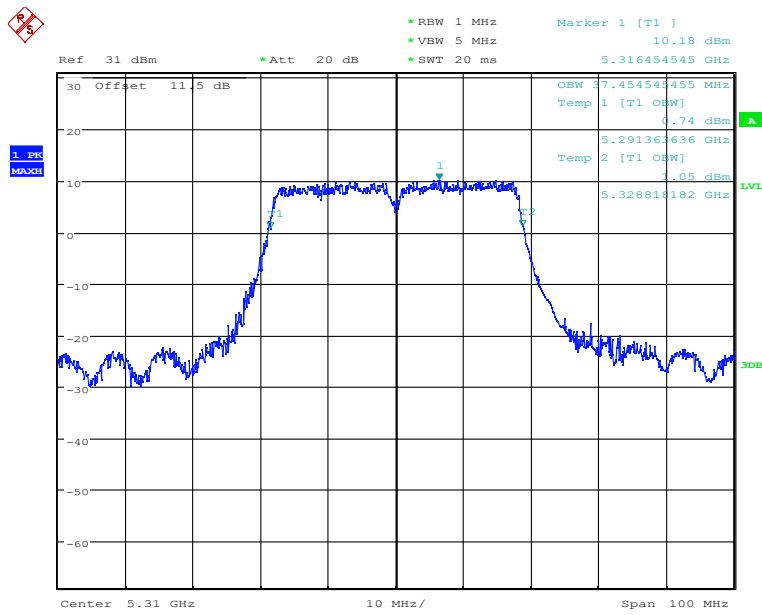


Date: 16.NOV.2021 00:55:17

Fig.127 99% Bandwidth: Ch54,11ac (40MHz)

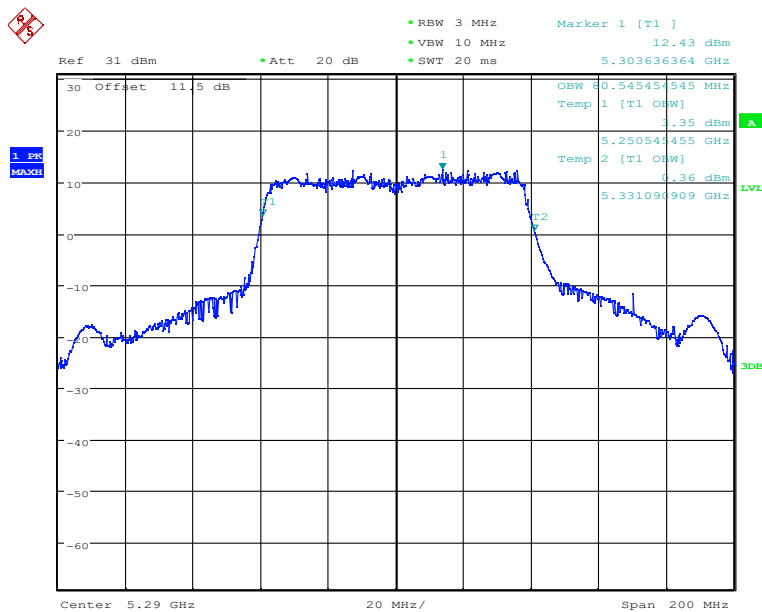
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Date: 16.NOV.2021 01:05:41

Fig.128 99% Bandwidth: Ch62,11ac (40MHz)

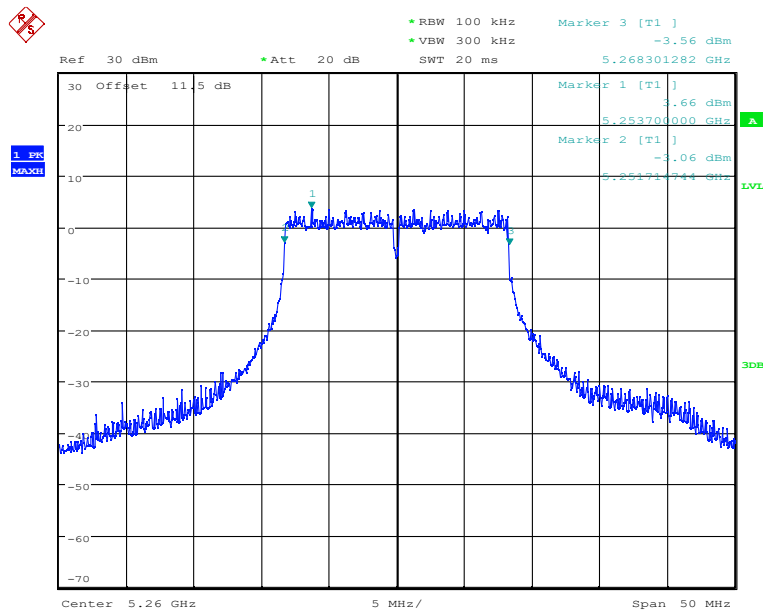


Date: 16.NOV.2021 01:07:09

Fig.129 99% Bandwidth: Ch58,11ac (80MHz)

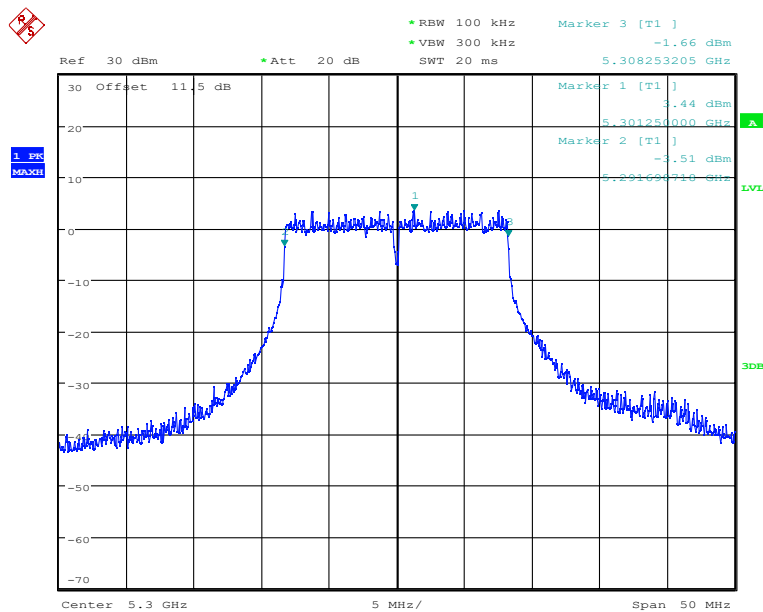
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Date: 16.NOV.2021 00:03:20

Fig.130 6dB Bandwidth: Ch52,11a

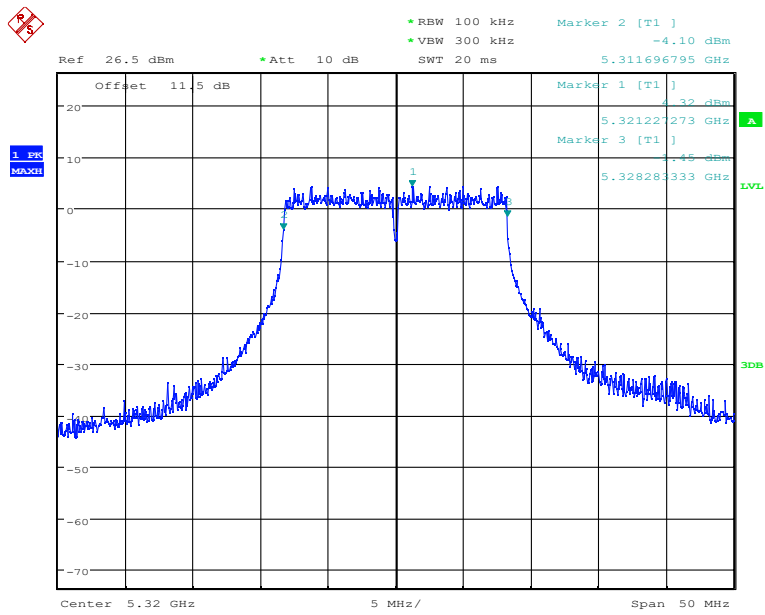


Date: 16.NOV.2021 00:04:07

Fig.131 6dB Bandwidth: Ch60,11a

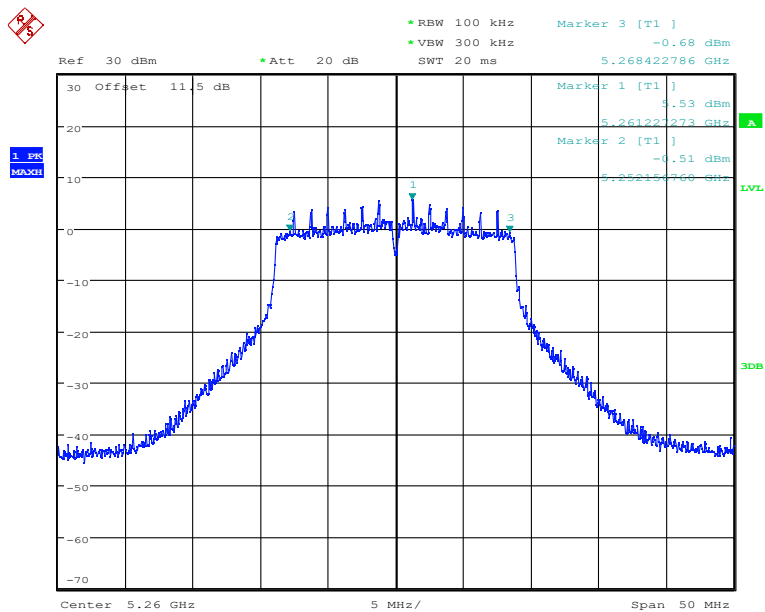
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Date: 16.NOV.2021 00:10:01

Fig.132 6dB Bandwidth: Ch64,11a

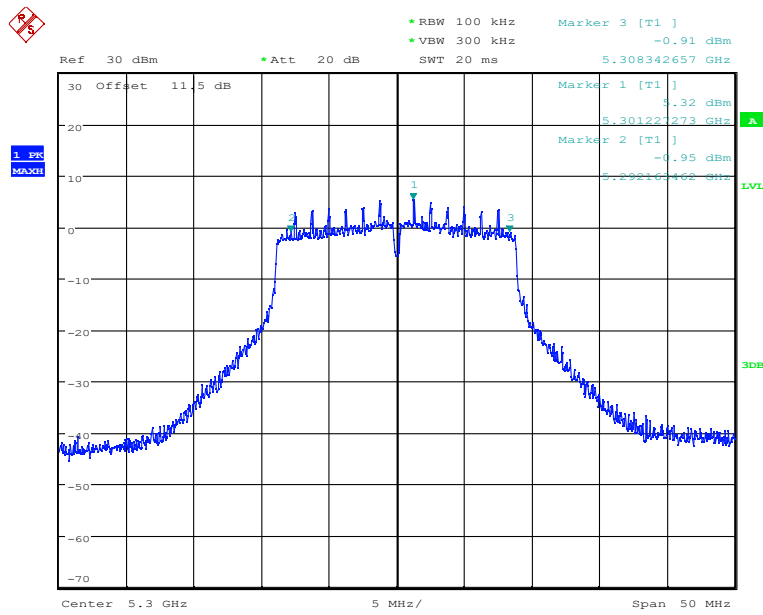


Date: 16.NOV.2021 00:13:00

Fig.133 6dB Bandwidth: Ch52,11n

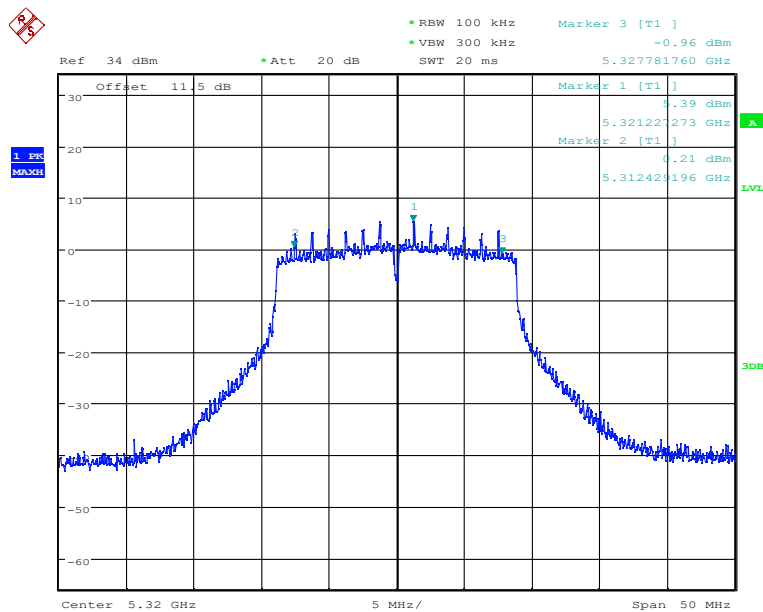
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Date: 16.NOV.2021 00:14:02

Fig.134 6dB Bandwidth: Ch60,11n

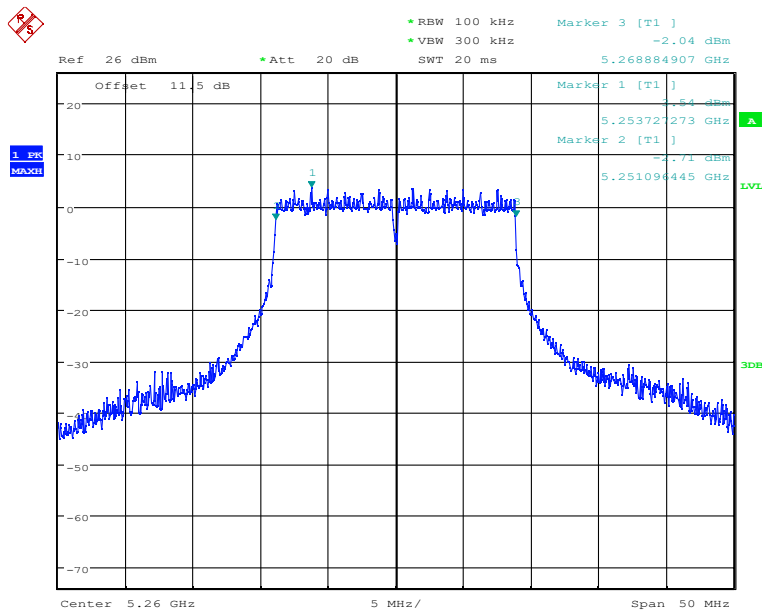


Date: 16.NOV.2021 00:15:43

Fig.135 6dB Bandwidth: Ch64,11n

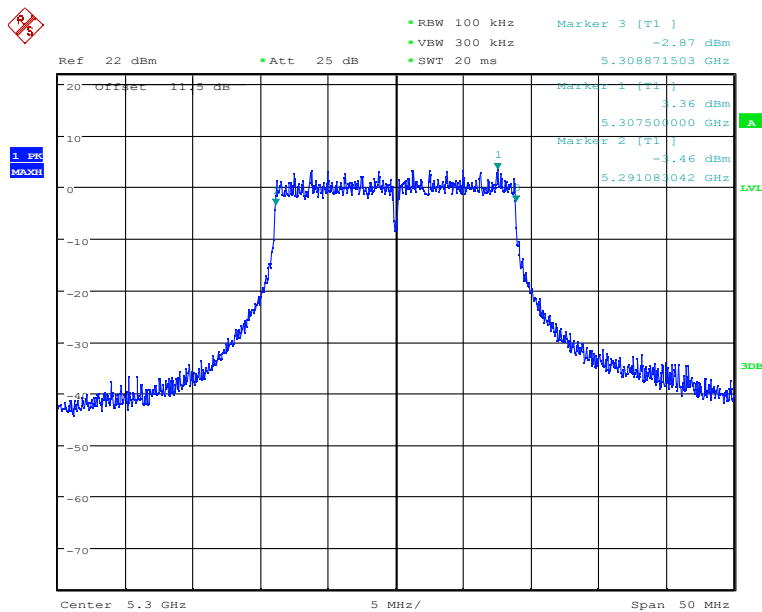
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Date: 16.NOV.2021 00:46:12

Fig.136 6dB Bandwidth: Ch52,11ac



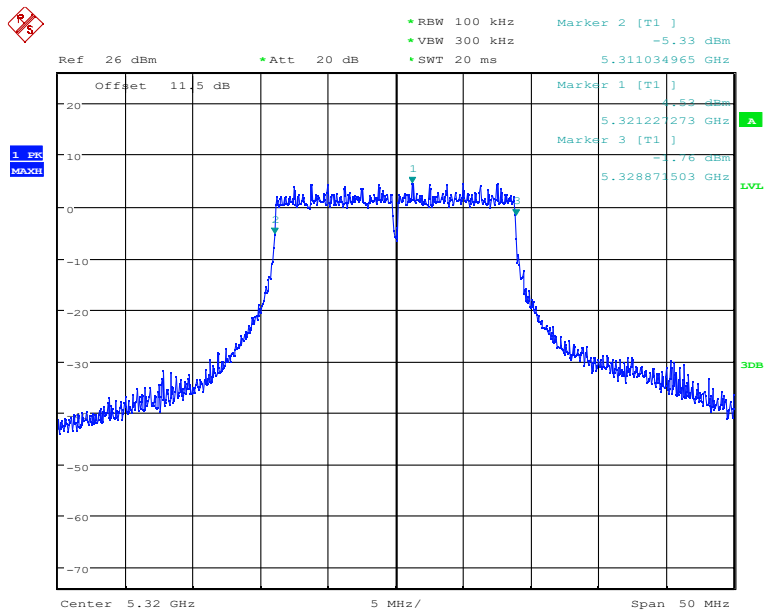
Date: 16.NOV.2021 00:50:26

Fig.137 6dB Bandwidth: Ch60,11ac

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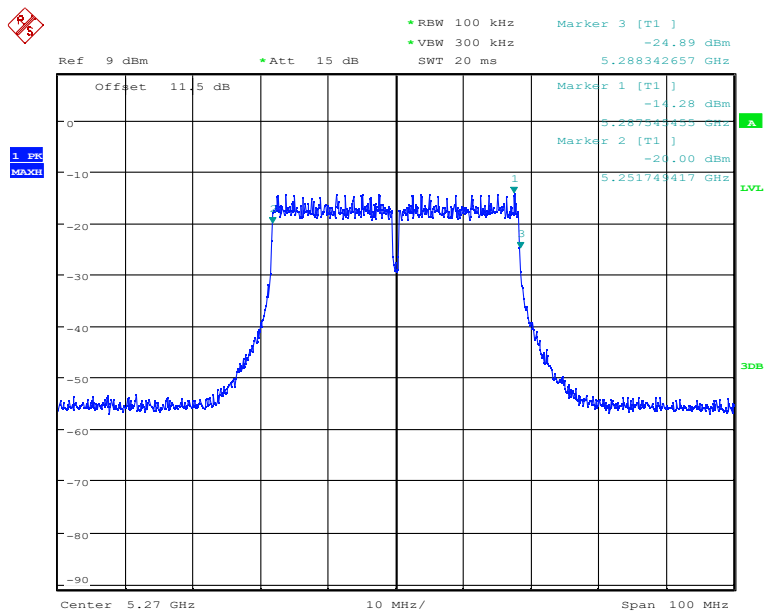
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Date: 16.NOV.2021 00:53:27

Fig.138 6dB Bandwidth: Ch64,11ac

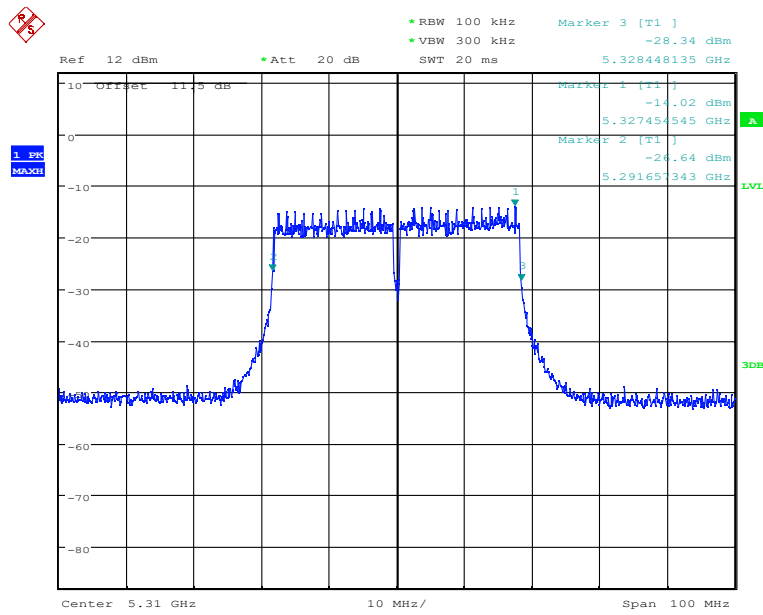


Date: 16.NOV.2021 00:19:24

Fig.139 6dB Bandwidth: Ch54,11n (40MHz)

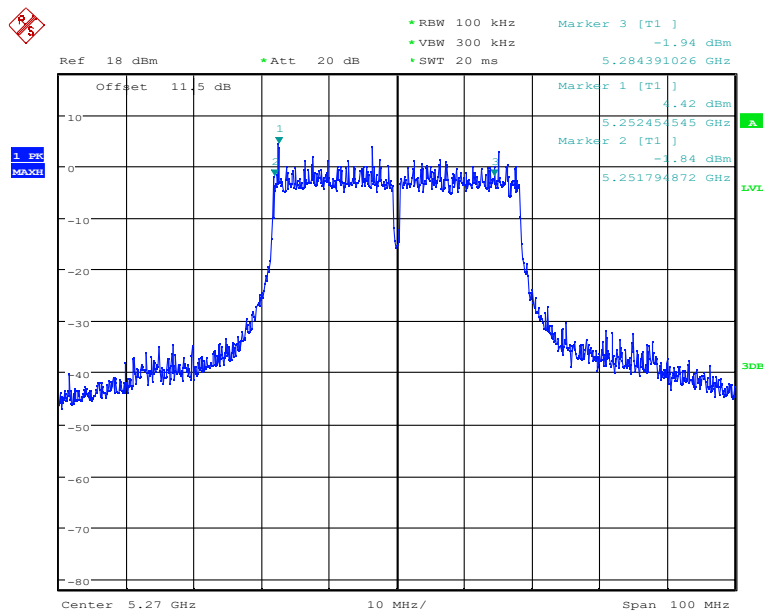
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Date: 16.NOV.2021 00:22:00

Fig.140 6dB Bandwidth: Ch62,11n (40MHz)

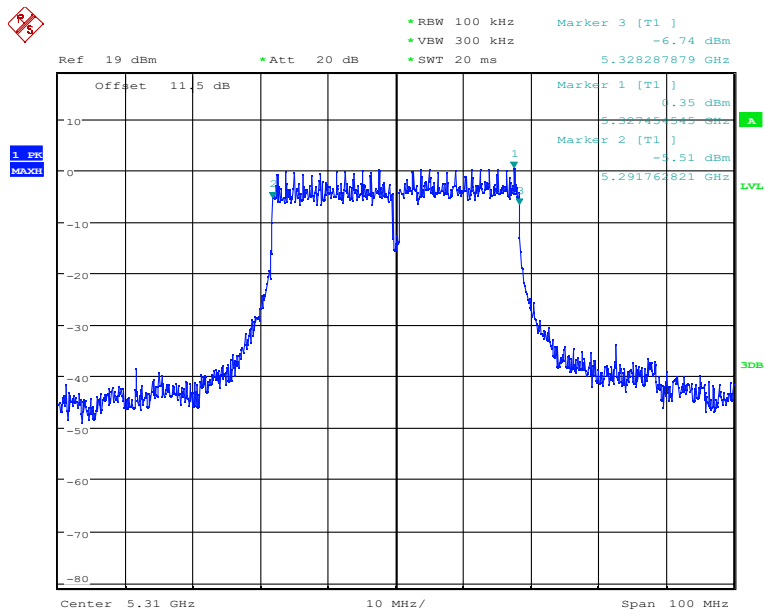


Date: 16.NOV.2021 01:03:36

Fig.141 6dB Bandwidth: Ch54,11ac (40MHz)

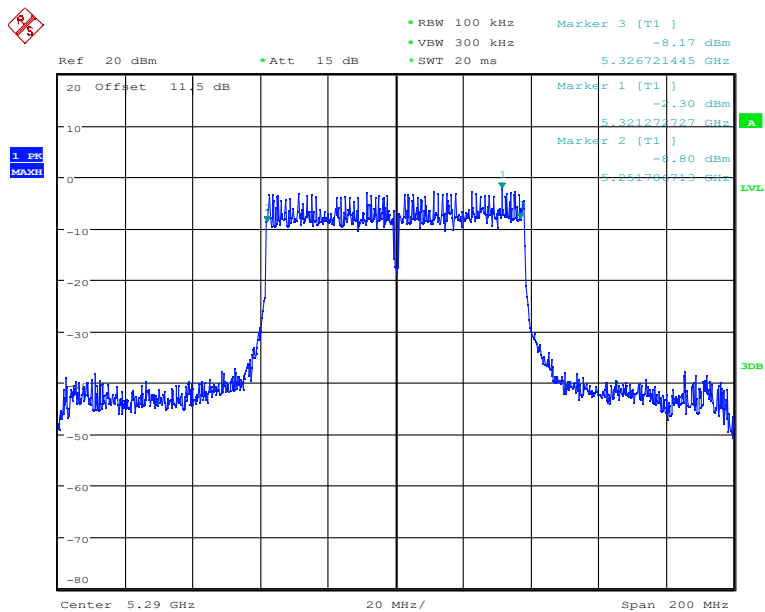
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Date: 16.NOV.2021 01:05:12

Fig.142 6dB Bandwidth: Ch62,11ac (40MHz)

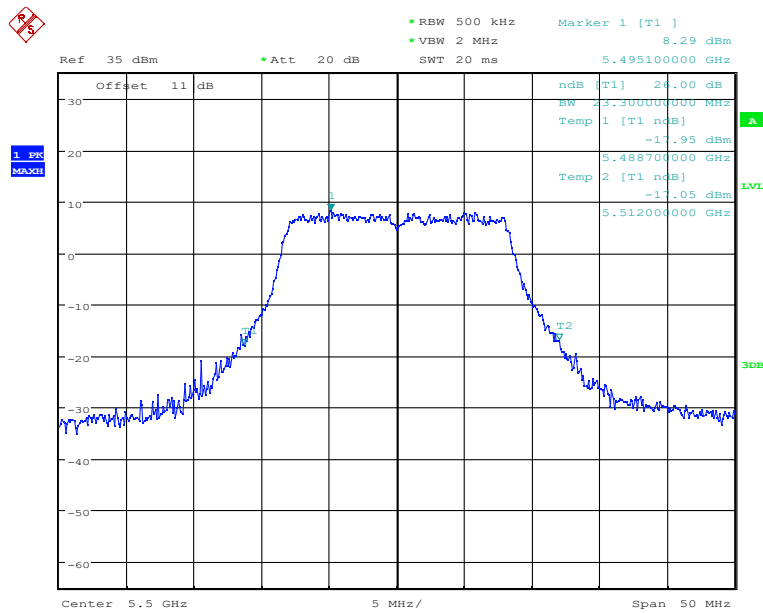


Date: 16.NOV.2021 01:09:18

Fig.143 6dB Bandwidth: Ch58,11ac (80MHz)

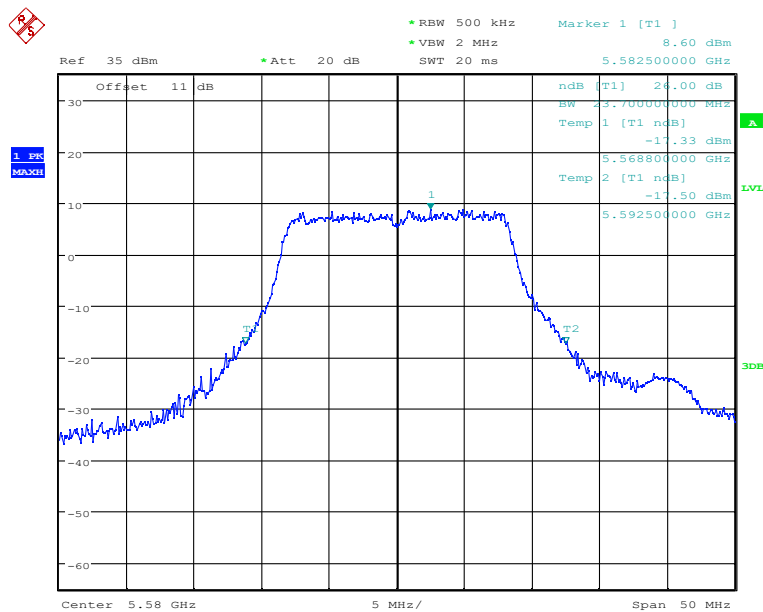
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Date: 15.NOV.2021 02:19:50

Fig.144 26dB Bandwidth: Ch100,11a

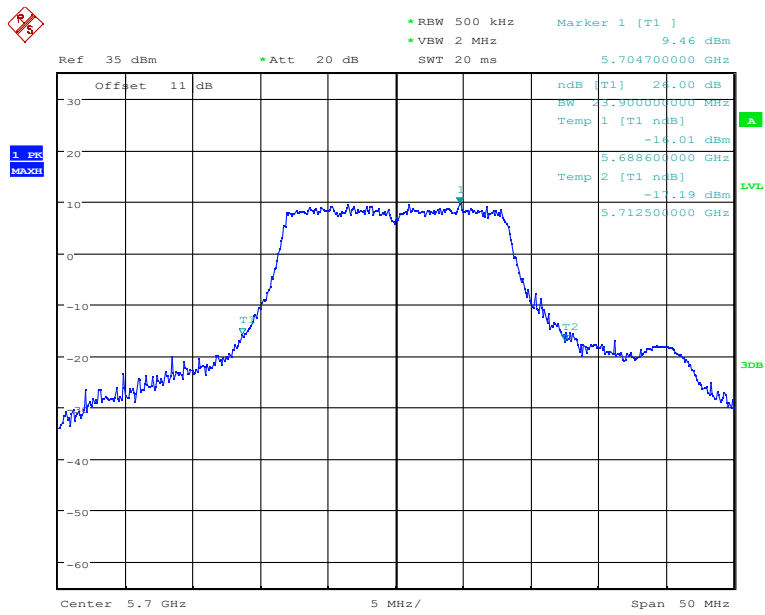


Date: 15.NOV.2021 02:20:55

Fig.145 26dB Bandwidth: Ch116,11a

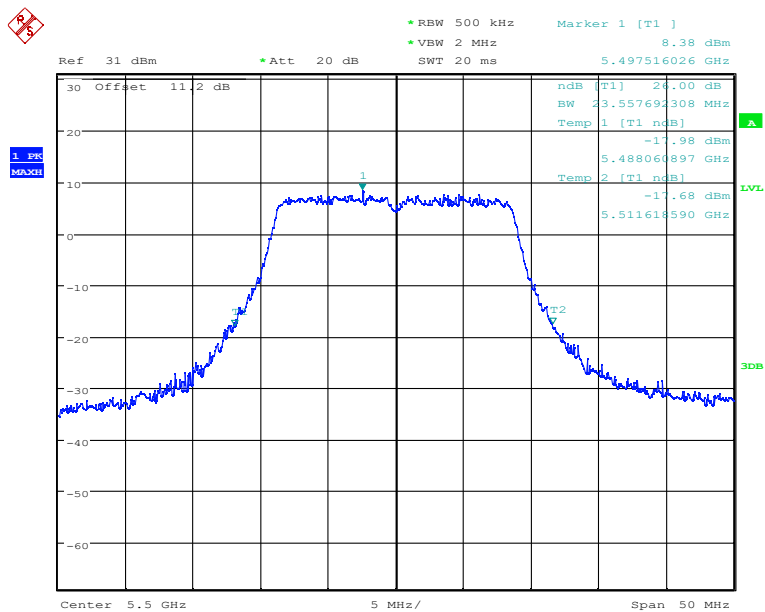
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Date: 15.NOV.2021 02:21:37

Fig.146 26dB Bandwidth: Ch140,11a

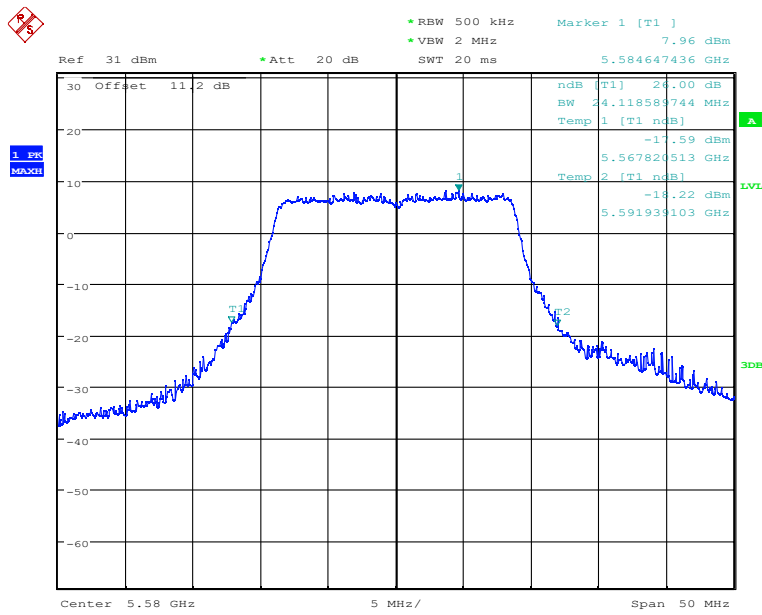


Date: 17.NOV.2021 20:10:09

Fig.147 26dB Bandwidth: Ch100,11n

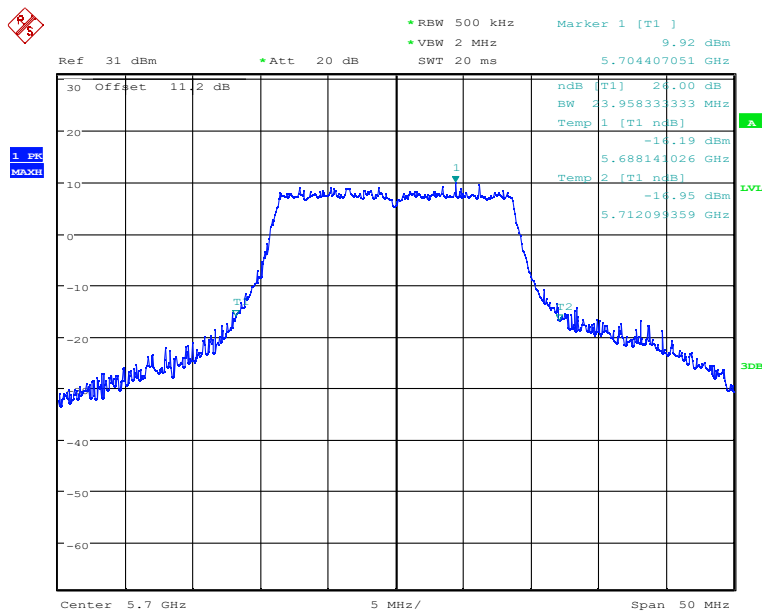
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Date: 17.NOV.2021 20:10:39

Fig.148 26dB Bandwidth: Ch116,11n

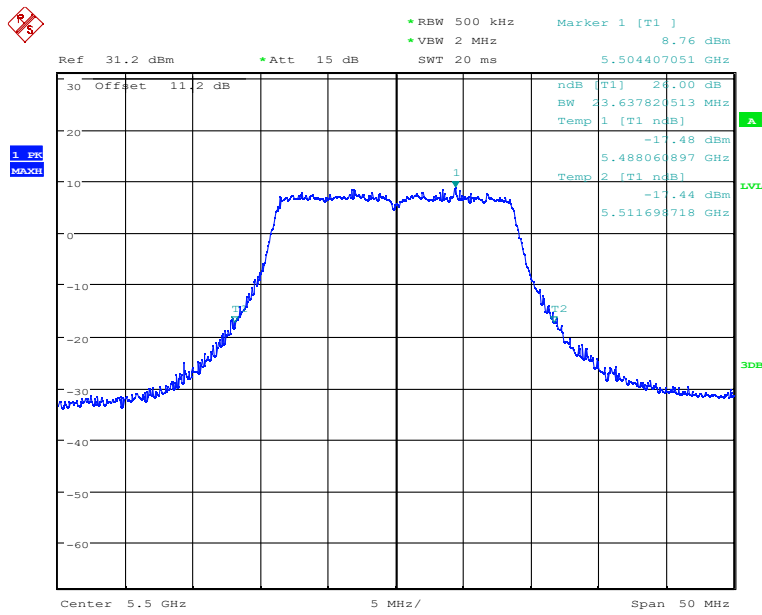


Date: 17.NOV.2021 20:12:40

Fig.149 26dB Bandwidth: Ch140,11n

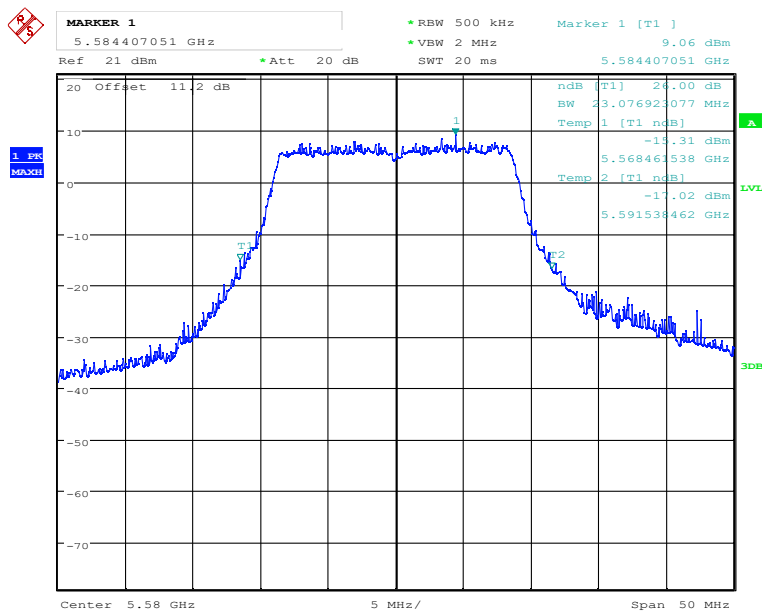
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Date: 17.NOV.2021 20:41:36

Fig.150 26dB Bandwidth: Ch100,11ac

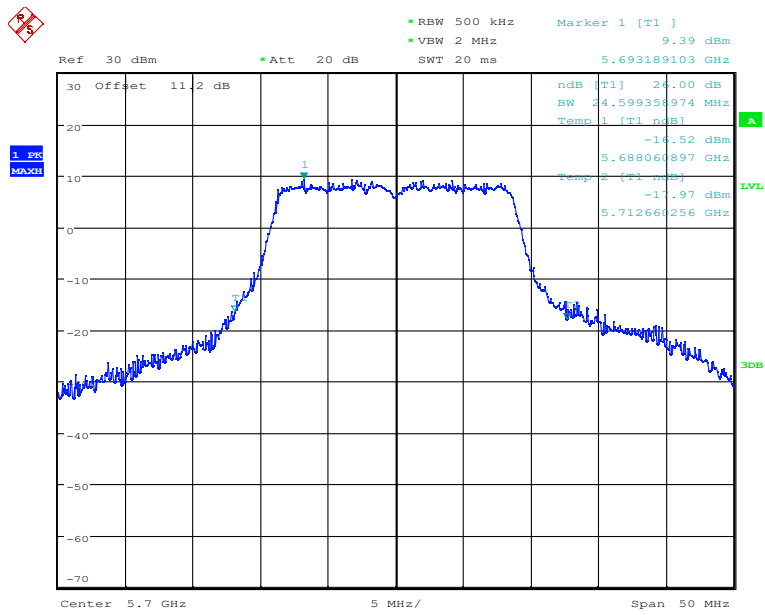


Date: 17.NOV.2021 20:47:26

Fig.151 26dB Bandwidth: Ch116,11ac

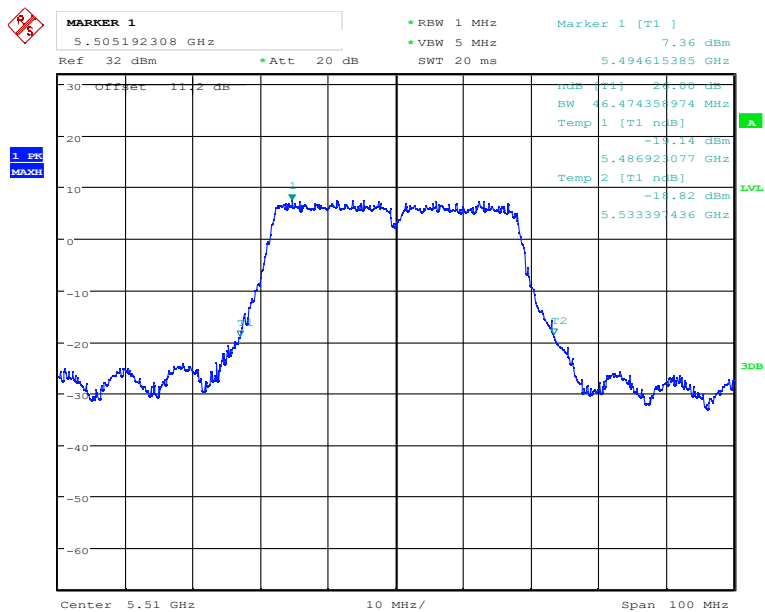
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Date: 17.NOV.2021 20:47:50

Fig.152 26dB Bandwidth: Ch140,11ac



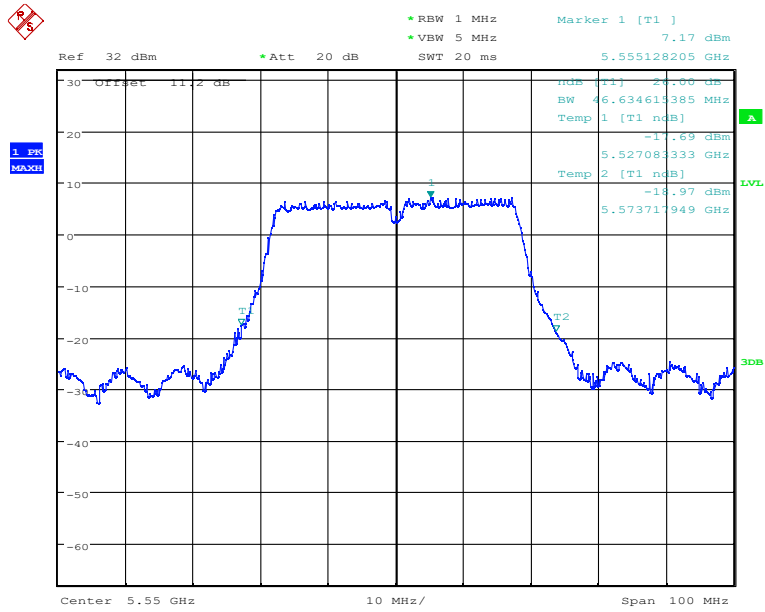
Date: 17.NOV.2021 20:20:13

Fig.153 26dB Bandwidth: Ch102,11n (40MHz)

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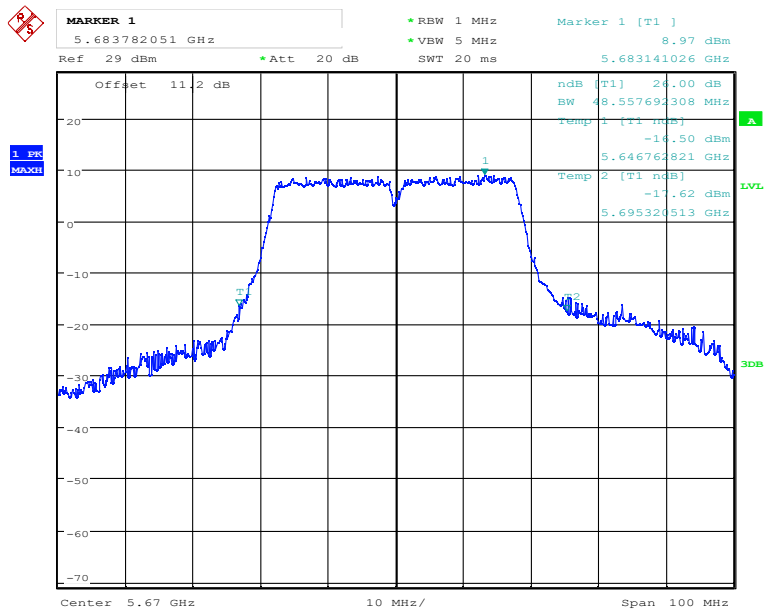
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Date: 17.NOV.2021 20:20:33

Fig.154 26dB Bandwidth: Ch110,11n (40MHz)

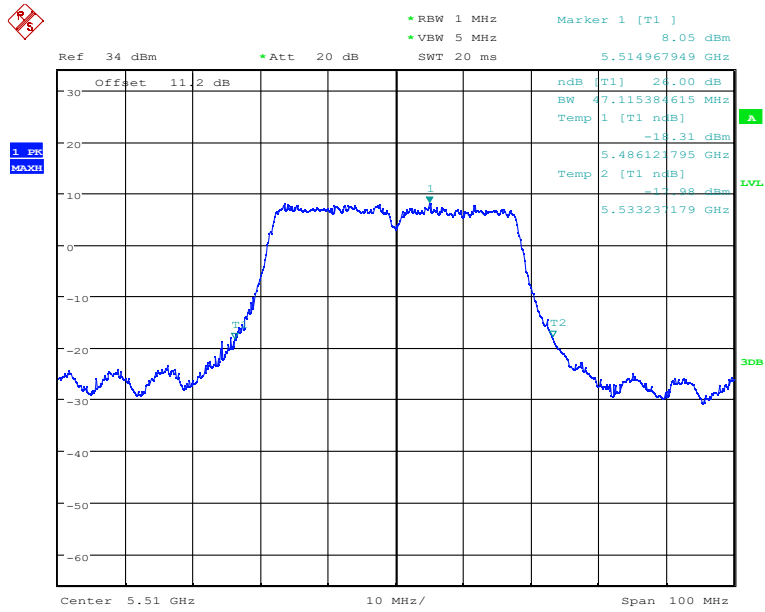


Date: 17.NOV.2021 20:23:11

Fig.155 26dB Bandwidth: Ch134,11n (40MHz)

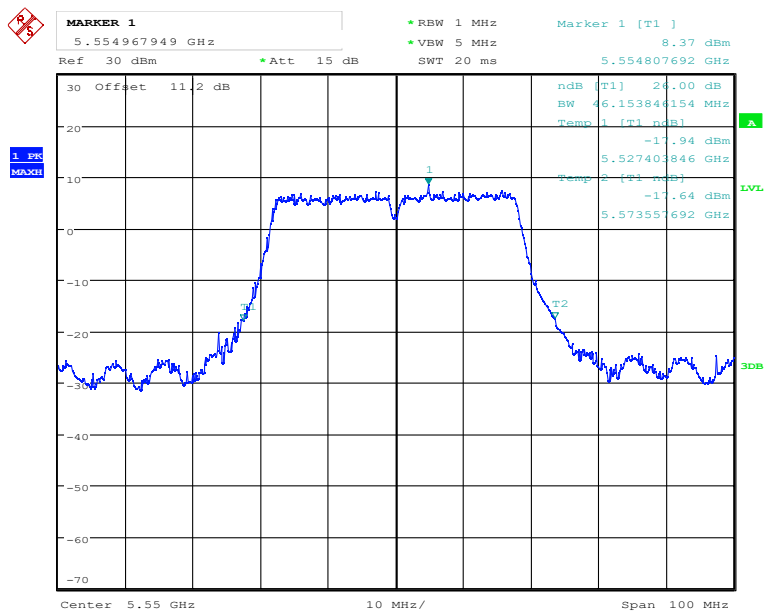
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Date: 17.NOV.2021 20:54:24

Fig.156 26dB Bandwidth: Ch102,11ac (40MHz)

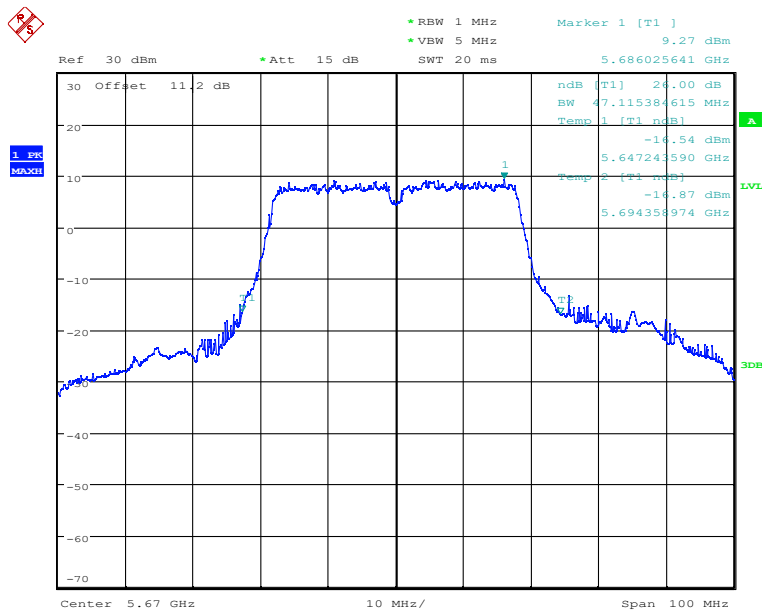


Date: 17.NOV.2021 20:59:45

Fig.157 26dB Bandwidth: Ch110,11ac (40MHz)

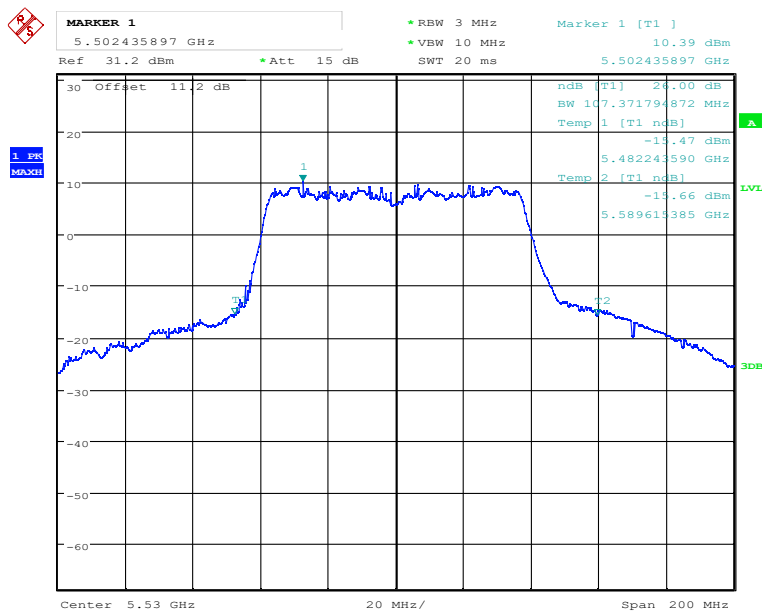
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Date: 17.NOV.2021 21:00:15

Fig.158 26dB Bandwidth: Ch134,11ac (40MHz)

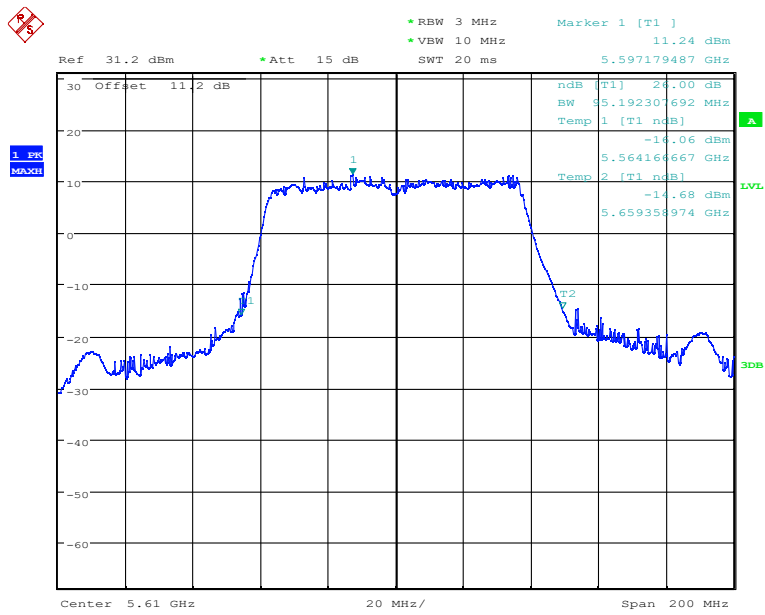


Date: 17.NOV.2021 21:05:26

Fig.159 26dB Bandwidth: Ch106,11ac (80MHz)

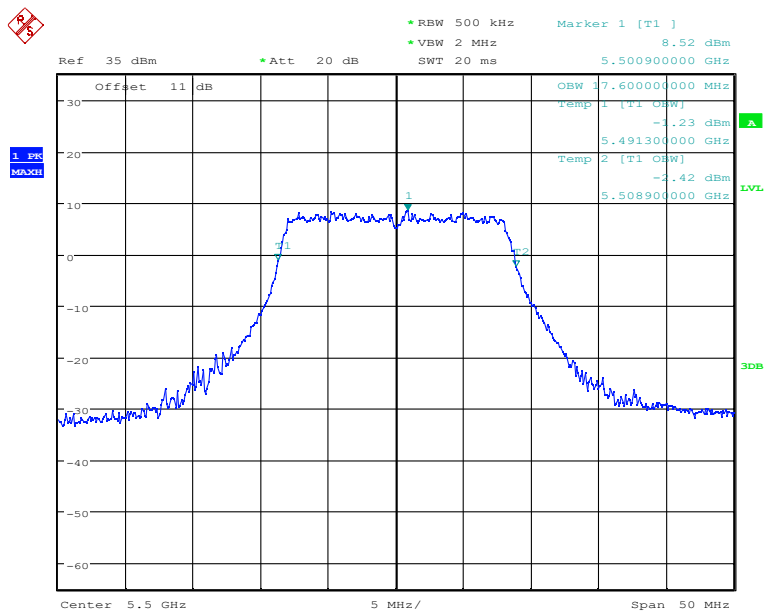
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Date: 17.NOV.2021 21:06:24

Fig.160 26dB Bandwidth: Ch122,11ac (80MHz)

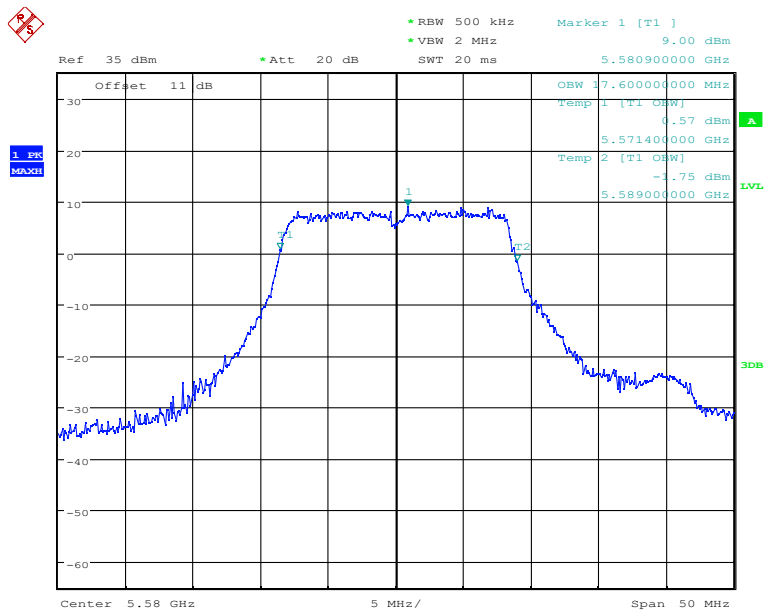


Date: 15.NOV.2021 02:19:40

Fig.161 99% Bandwidth: Ch100,11a

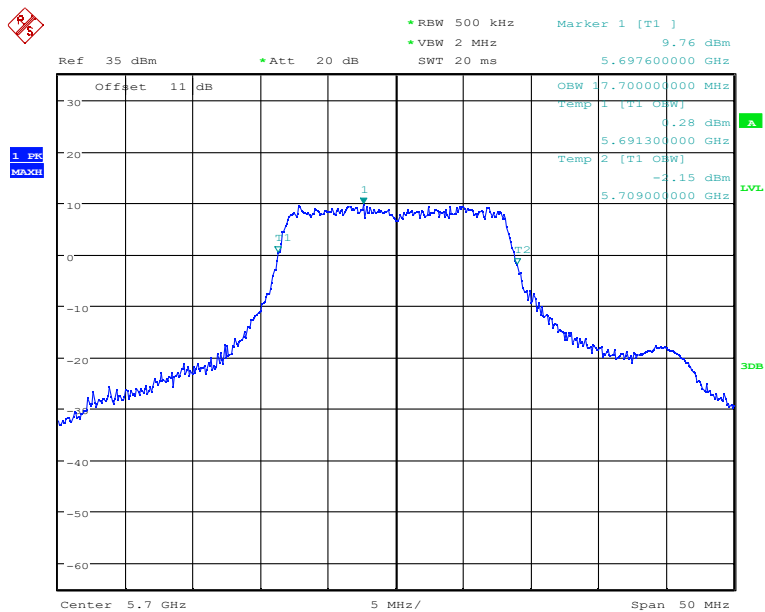
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Date: 15.NOV.2021 02:21:04

Fig.162 99% Bandwidth: Ch116,11a

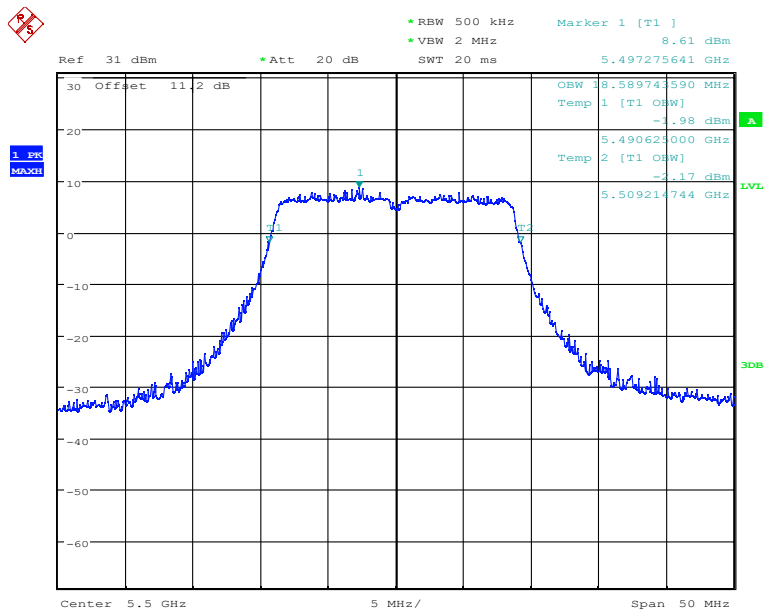


Date: 15.NOV.2021 02:21:28

Fig.163 99% Bandwidth: Ch140,11a

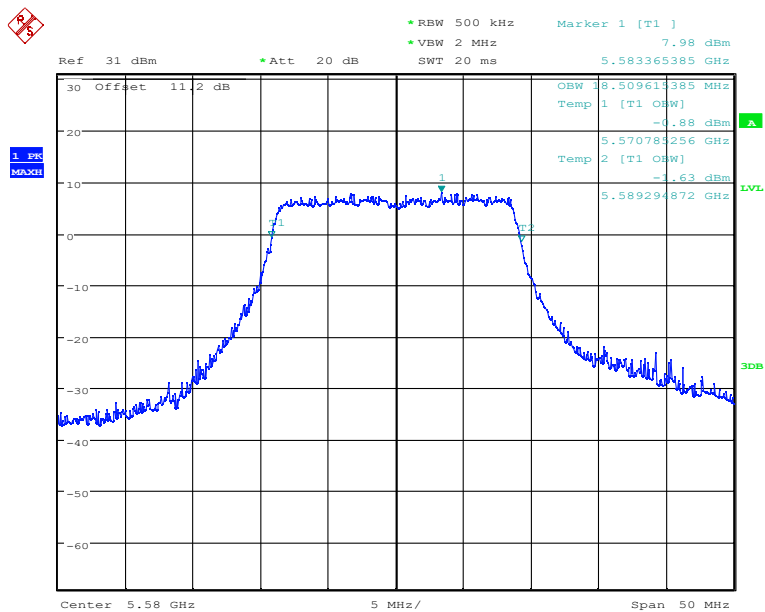
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Date: 17.NOV.2021 20:09:58

Fig.164 99% Bandwidth: Ch100,11n

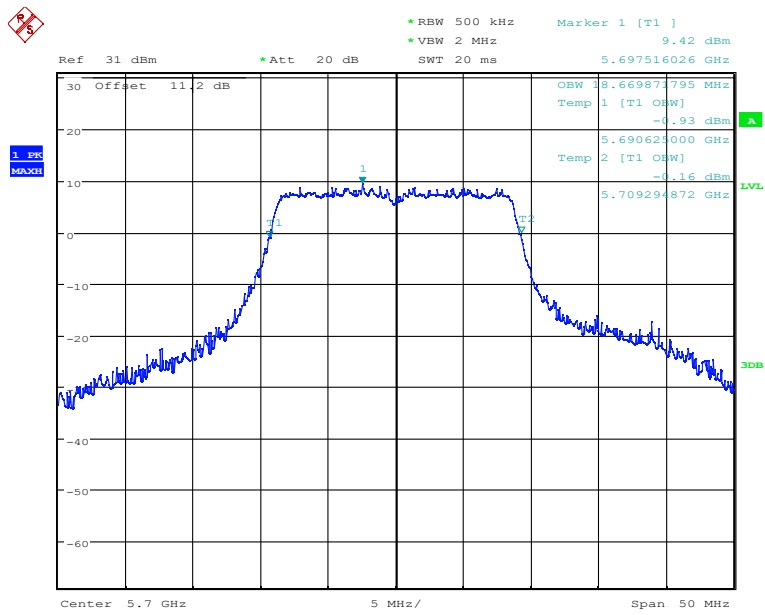


Date: 17.NOV.2021 20:10:47

Fig.165 99% Bandwidth: Ch116,11n

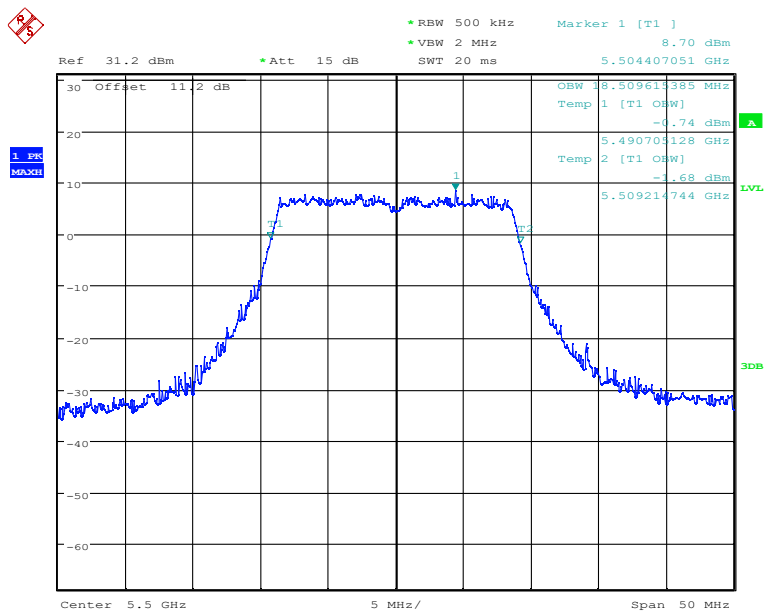
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Date: 17.NOV.2021 20:12:32

Fig.166 99% Bandwidth: Ch140,11n

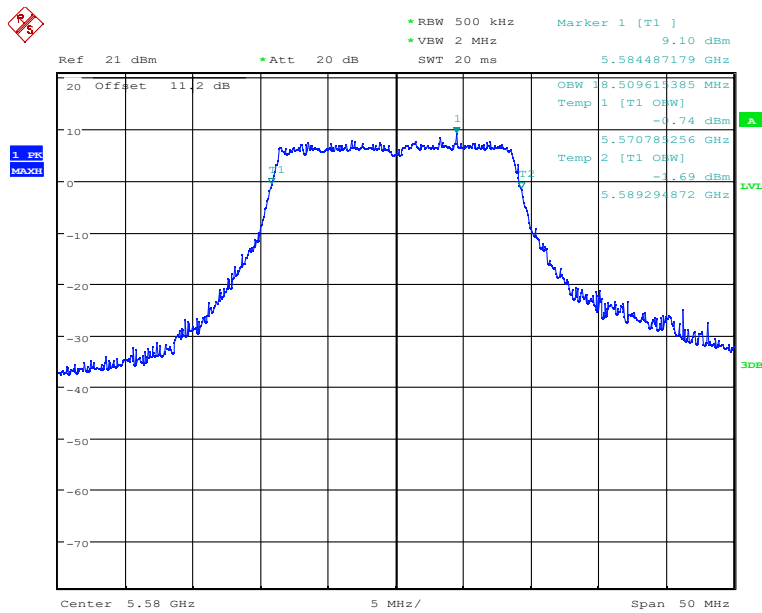


Date: 17.NOV.2021 20:41:43

Fig.167 99% Bandwidth: Ch100,11ac

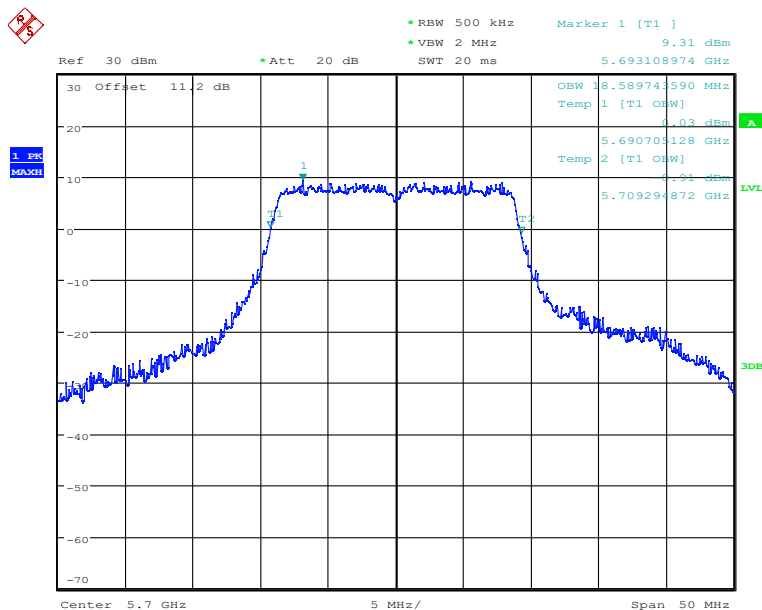
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Date: 17.NOV.2021 20:47:19

Fig.168 99% Bandwidth: Ch116,11ac



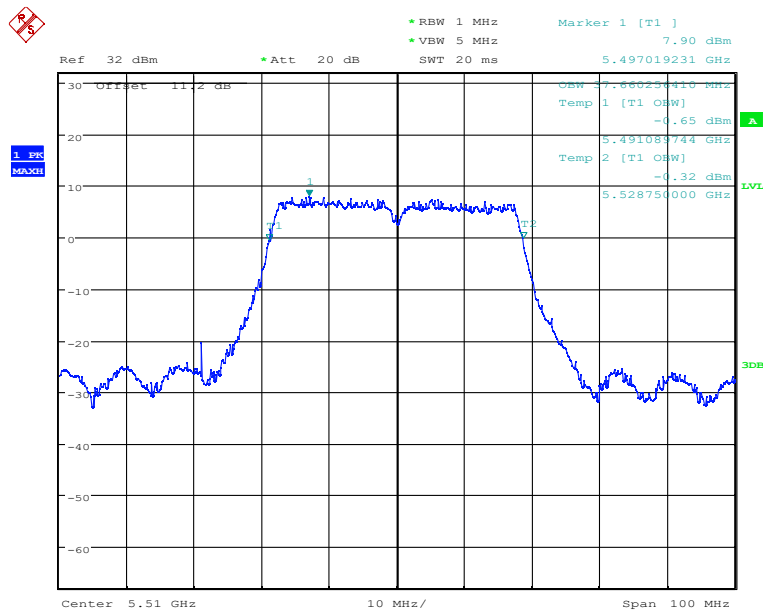
Date: 17.NOV.2021 20:47:59

Fig.169 99% Bandwidth: Ch140,11ac

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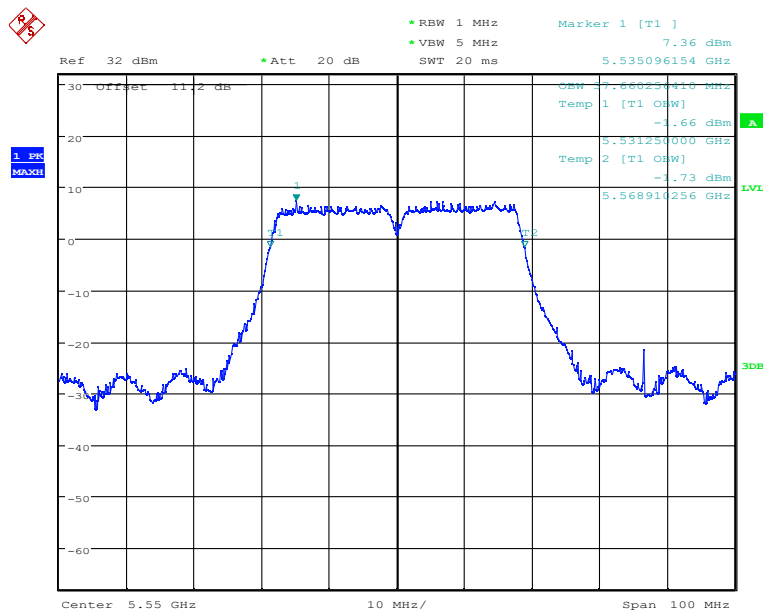
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Date: 17.NOV.2021 20:20:05

Fig.170 99% Bandwidth: Ch102,11n (40MHz)

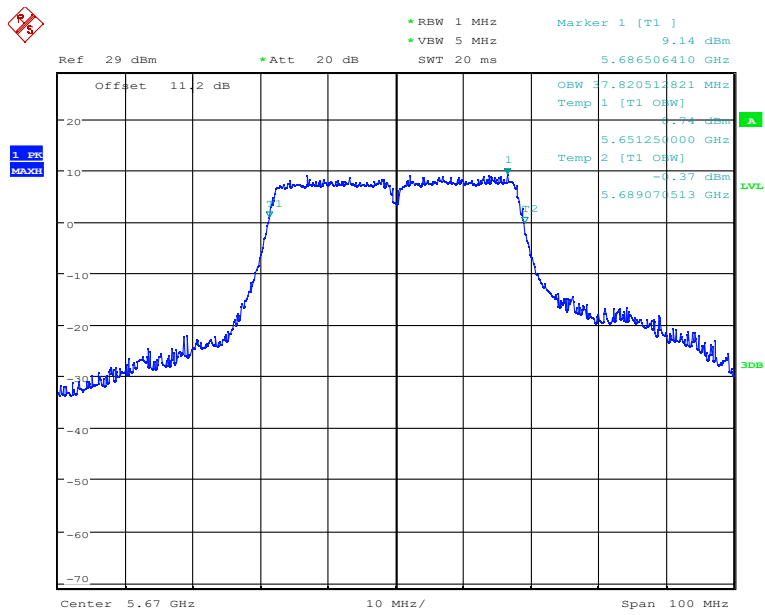


Date: 17.NOV.2021 20:20:42

Fig.171 99% Bandwidth: Ch110,11n (40MHz)

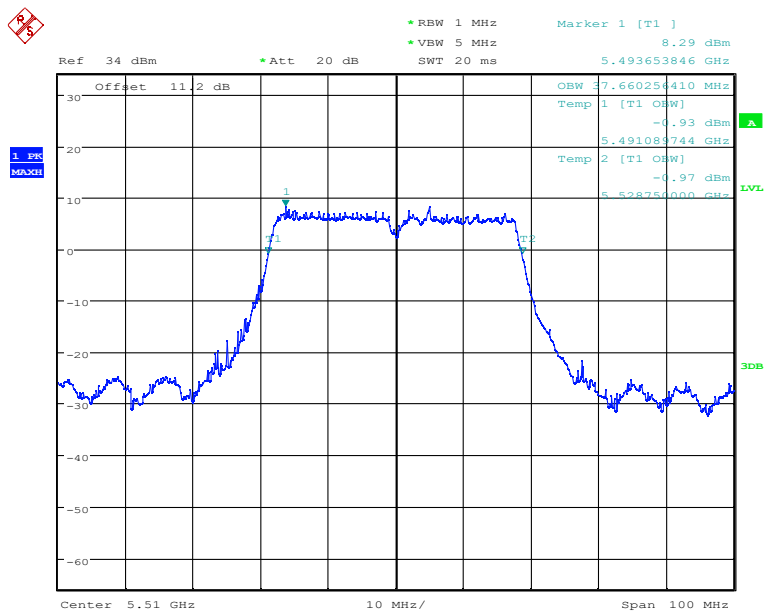
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Date: 17.NOV.2021 20:23:00

Fig.172 99% Bandwidth: Ch134,11n (40MHz)

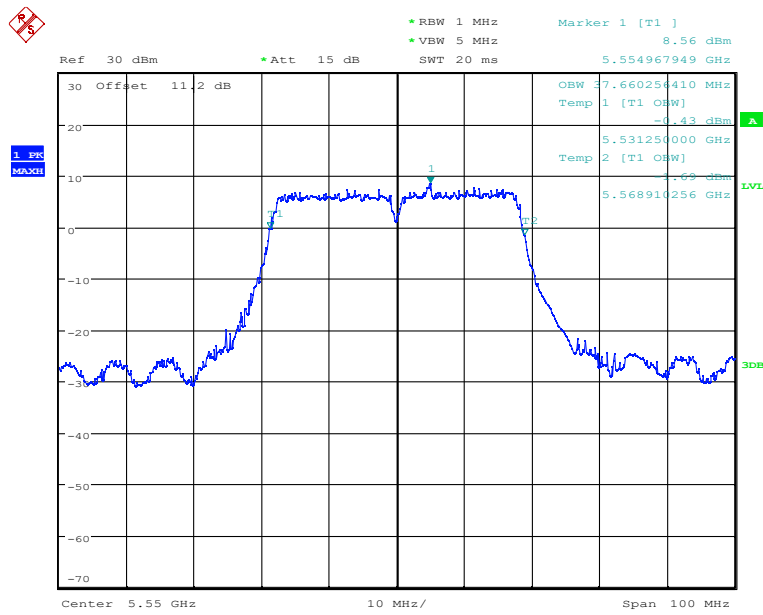


Date: 17.NOV.2021 20:54:32

Fig.173 99% Bandwidth: Ch102,11ac (40MHz)

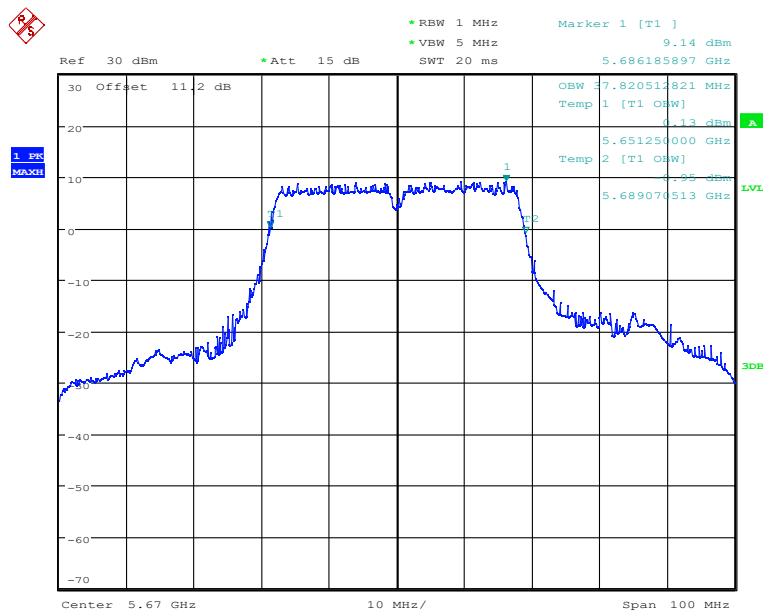
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Date: 17.NOV.2021 20:59:39

Fig.174 99% Bandwidth: Ch10,11ac (40MHz)

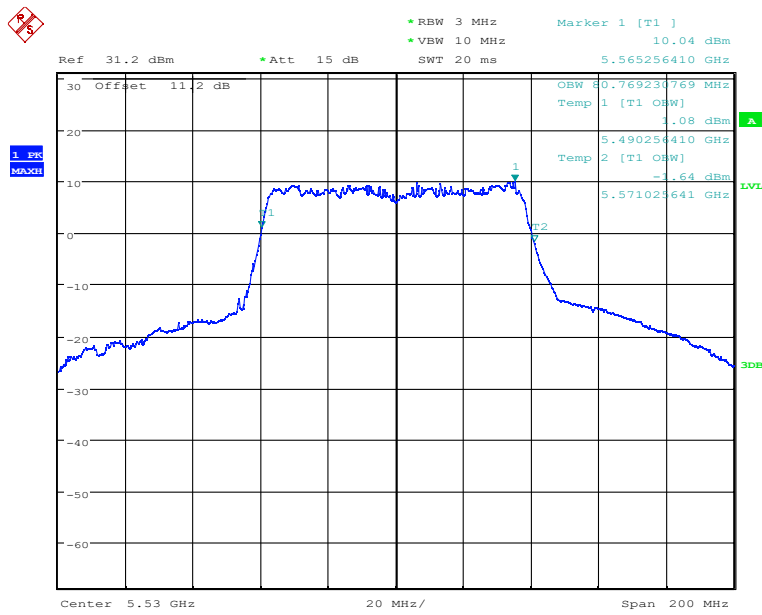


Date: 17.NOV.2021 21:00:21

Fig.175 99% Bandwidth: Ch134,11ac (40MHz)

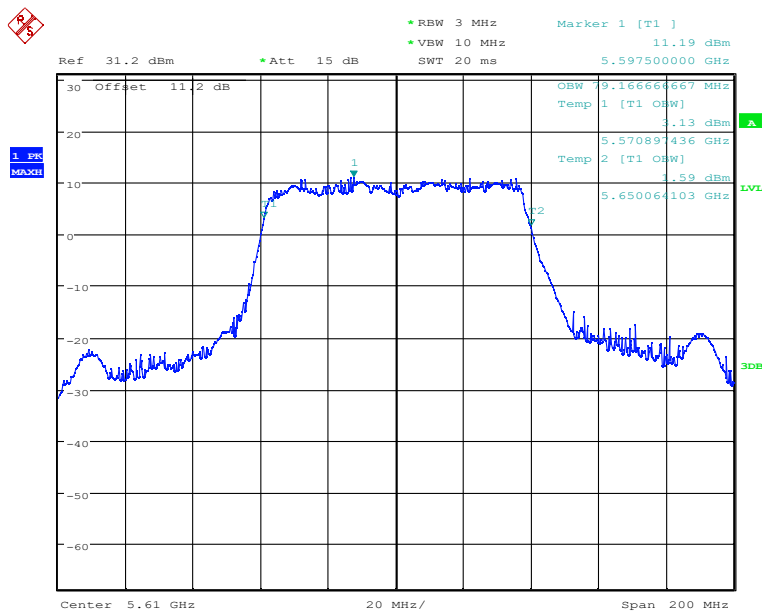
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Date: 17.NOV.2021 21:05:18

Fig.176 99% Bandwidth: Ch106,11ac (80MHz)

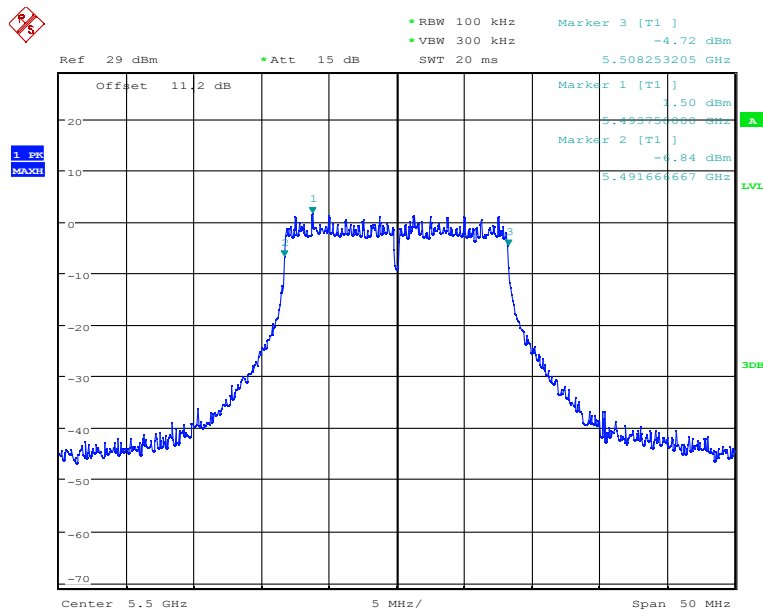


Date: 17.NOV.2021 21:06:30

Fig.177 99% Bandwidth: Ch122,11ac (80MHz)

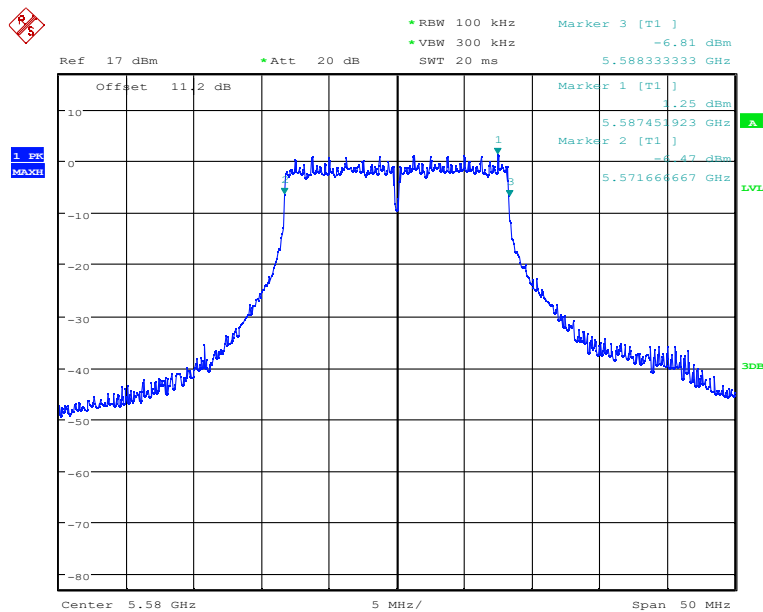
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Date: 17.NOV.2021 19:49:24

Fig.178 6dB Bandwidth: Ch100,11a

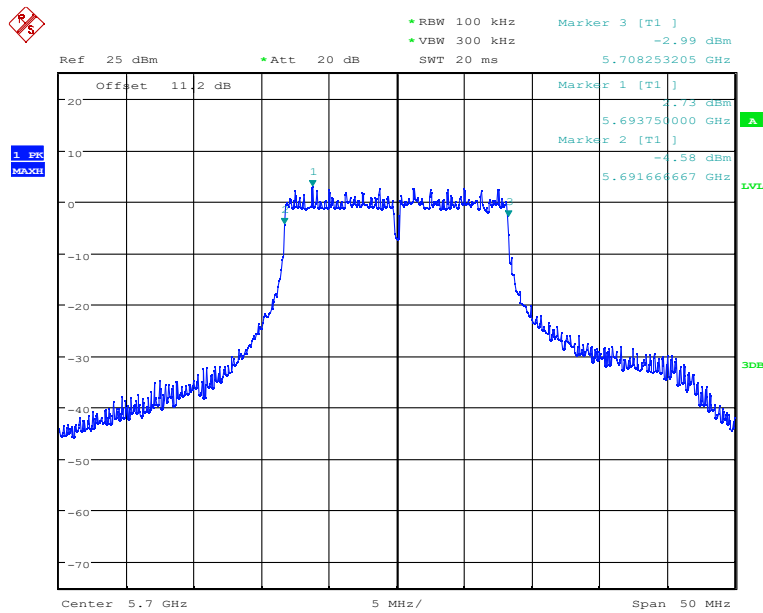


Date: 17.NOV.2021 19:50:52

Fig.179 6dB Bandwidth: Ch116,11a

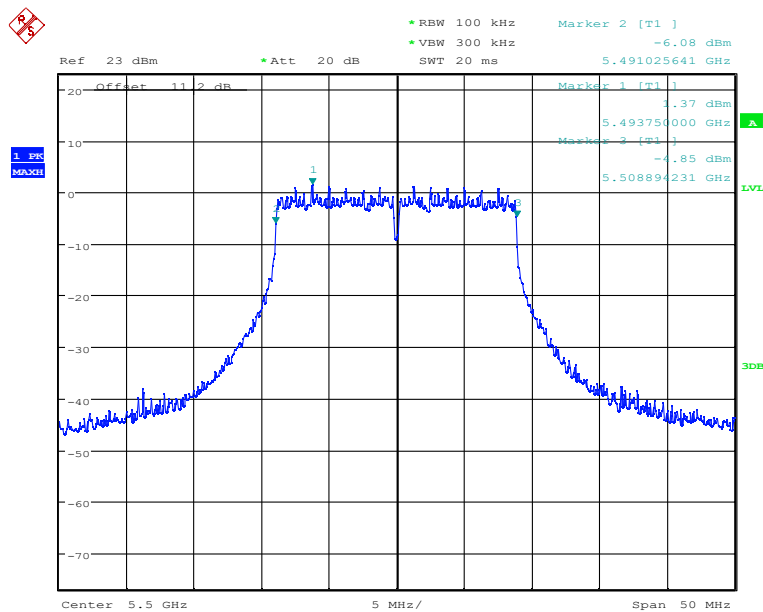
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Fig.180 6dB Bandwidth: Ch140,11a

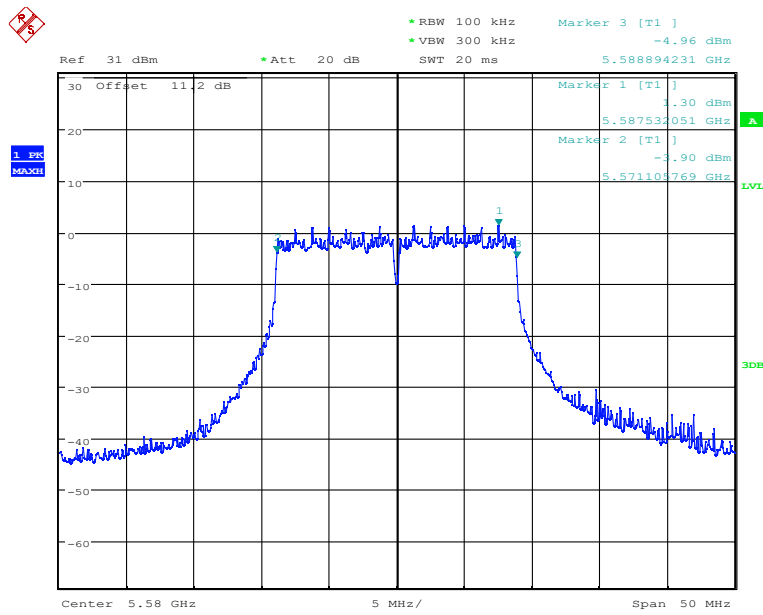


Date: 17.NOV.2021 20:09:30

Fig.181 6dB Bandwidth: Ch100,11n

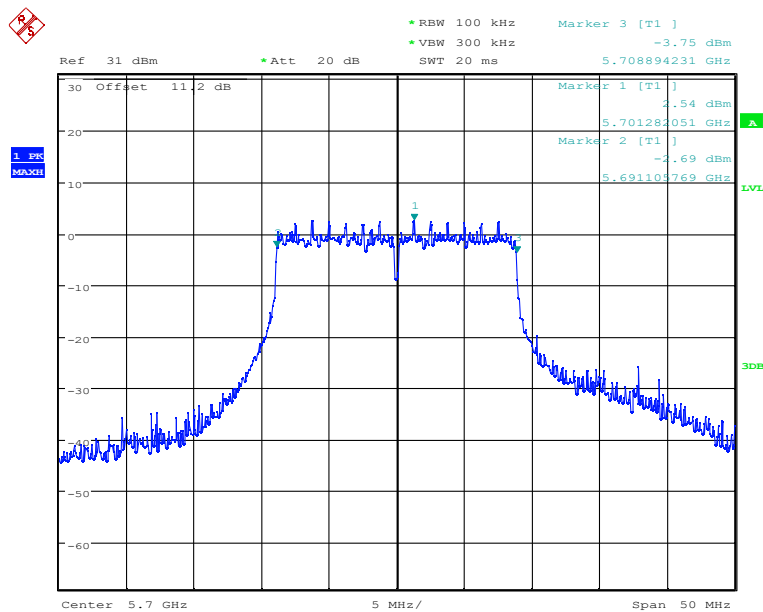
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Date: 17.NOV.2021 20:11:42

Fig.182 6dB Bandwidth: Ch116,11n

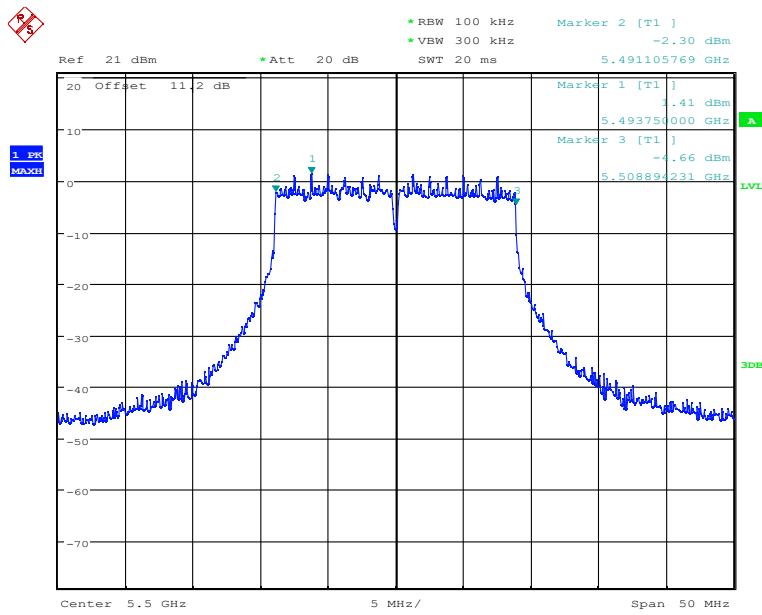


Date: 17.NOV.2021 20:12:17

Fig.183 6dB Bandwidth: Ch140,11n

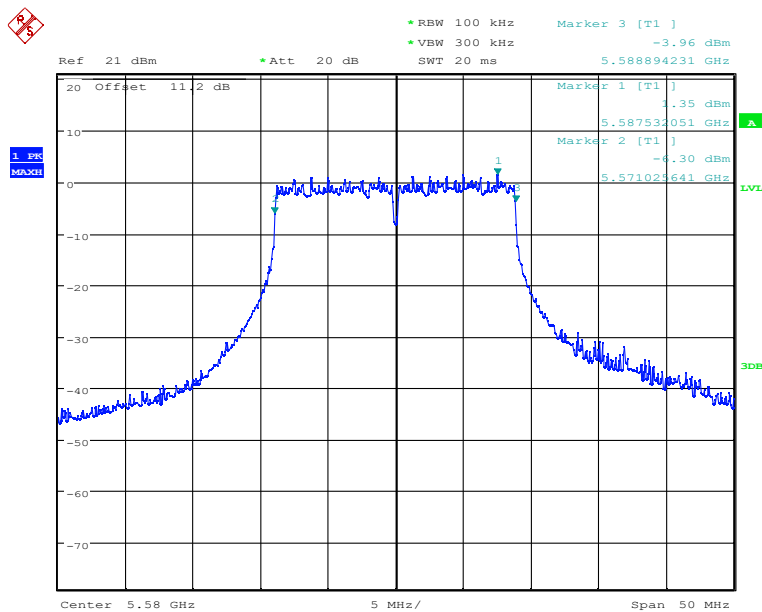
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Date: 17.NOV.2021 20:42:55

Fig.184 6dB Bandwidth: Ch100,11ac



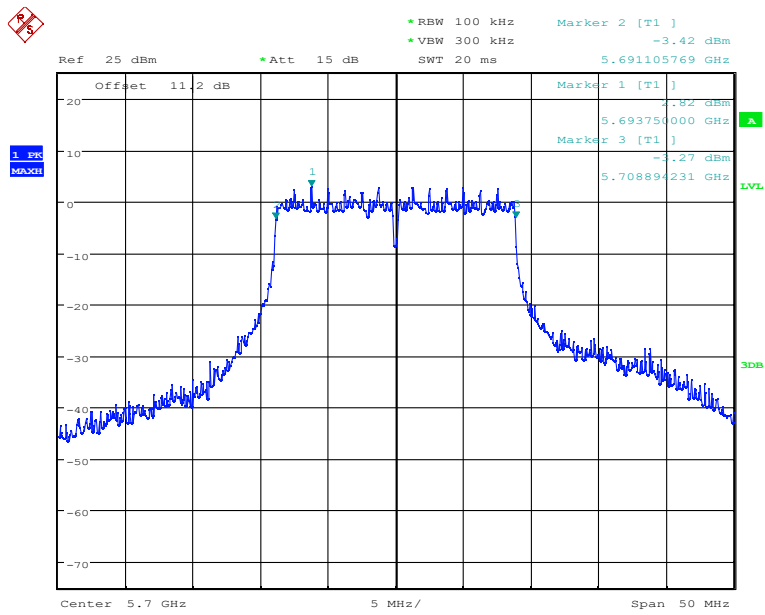
Date: 17.NOV.2021 20:47:03

Fig.185 6dB Bandwidth: Ch116,11ac

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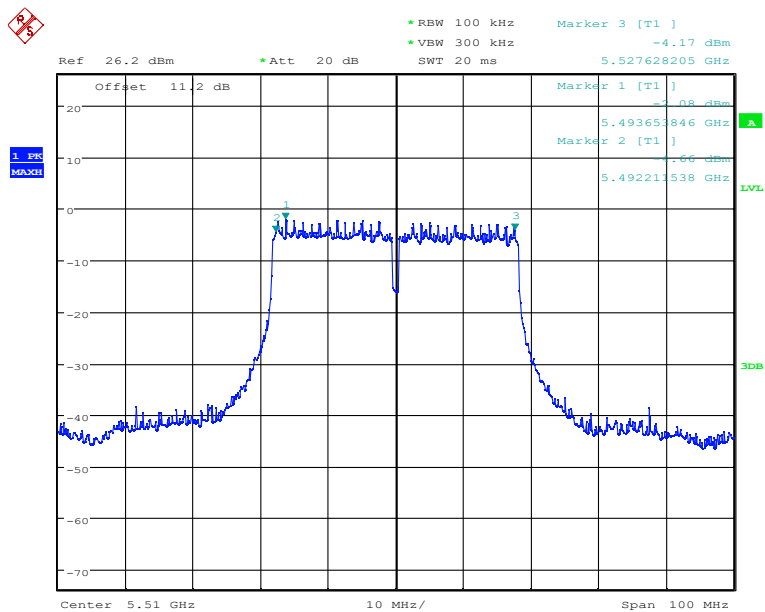
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Date: 17.NOV.2021 20:48:36

Fig.186 6dB Bandwidth: Ch140,11ac

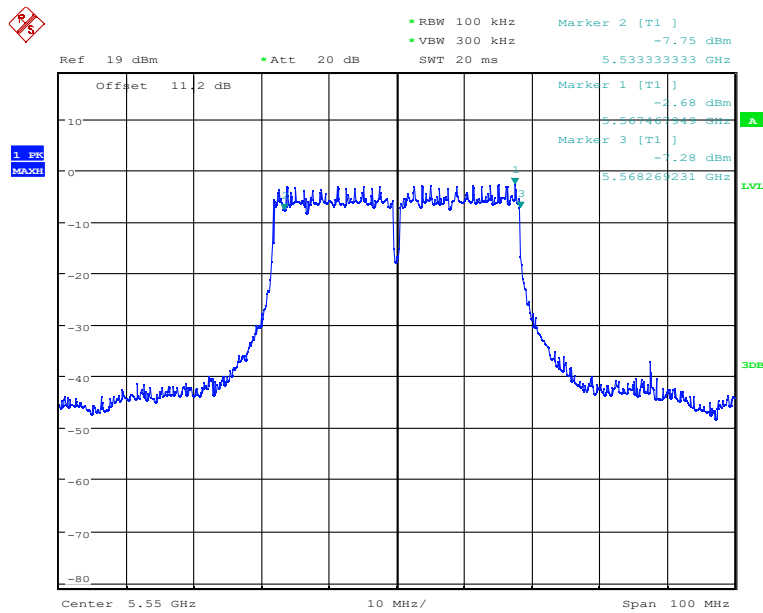


Date: 17.NOV.2021 20:19:23

Fig.187 6dB Bandwidth: Ch102,11n (40MHz)

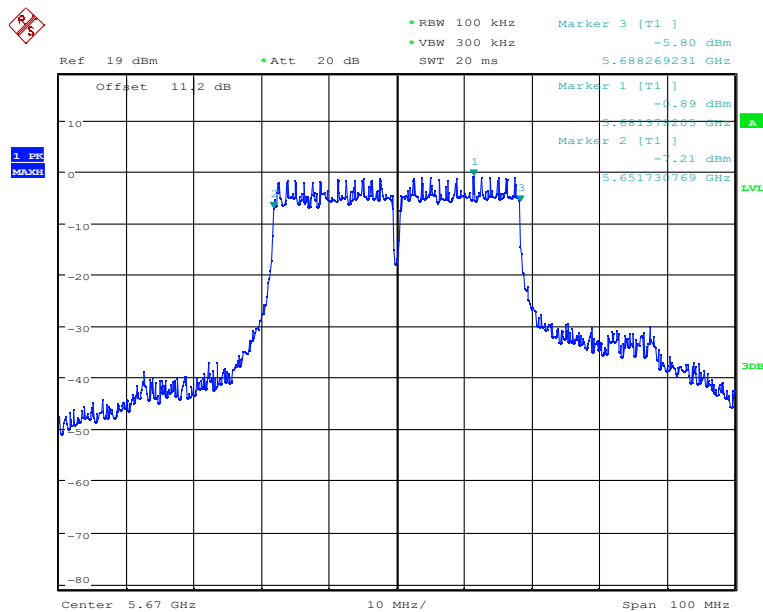
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Date: 17.NOV.2021 20:21:35

Fig.188 6dB Bandwidth: Ch110,11n (40MHz)

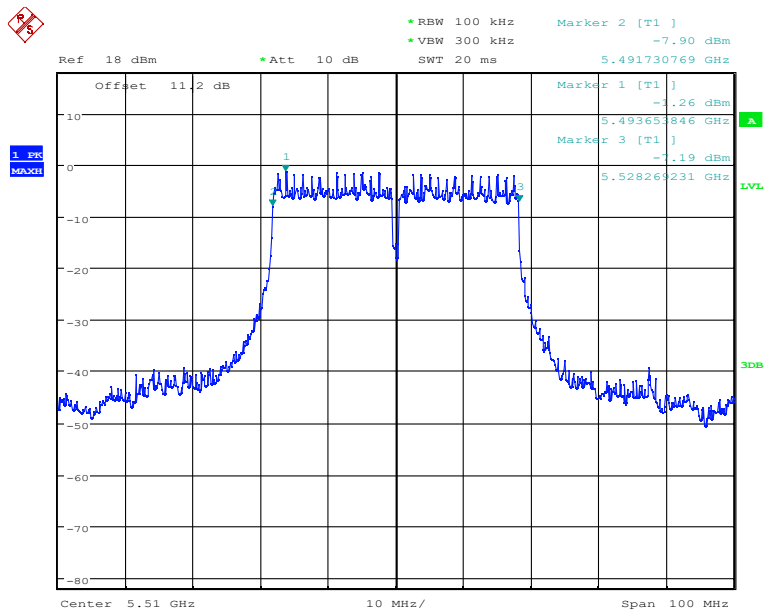


Date: 17.NOV.2021 20:22:40

Fig.189 6dB Bandwidth: Ch134,11n (40MHz)

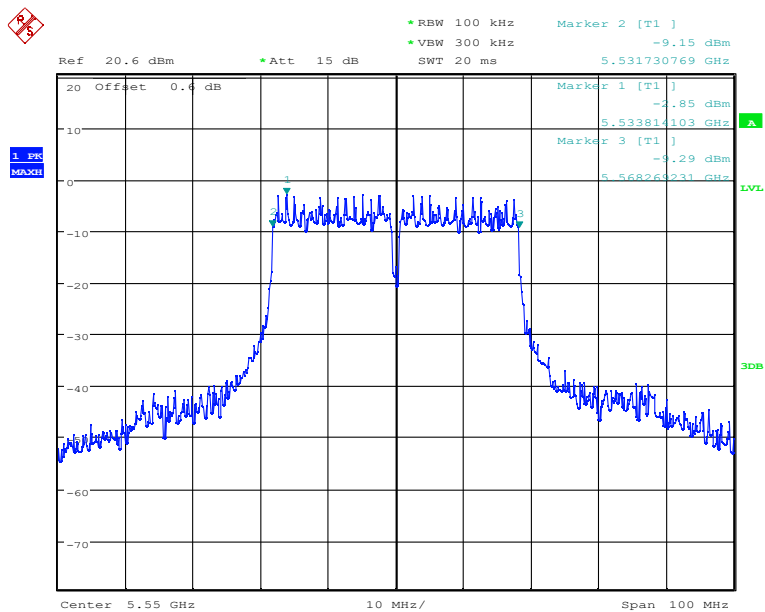
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Date: 17.NOV.2021 20:55:41

Fig.190 6dB Bandwidth: Ch102,11ac (40MHz)

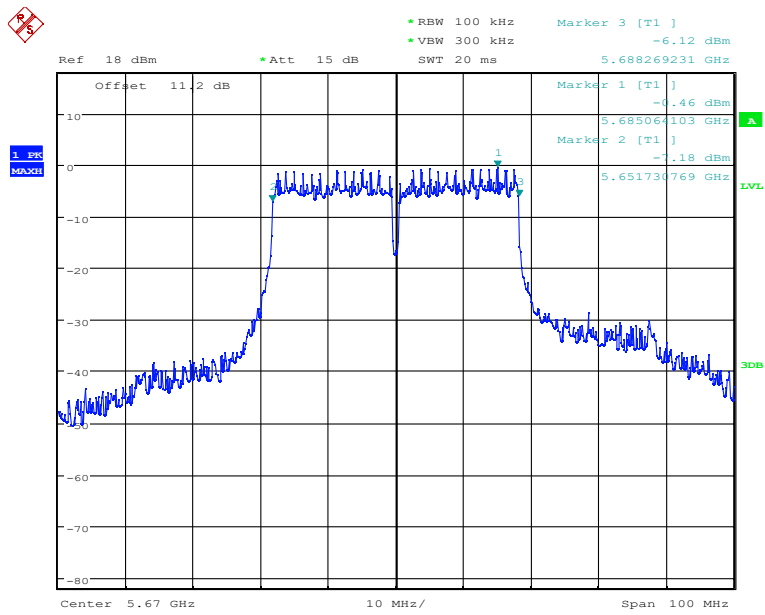


Date: 1.DEC.2021 04:05:17

Fig.191 6dB Bandwidth: Ch110,11ac (40MHz)

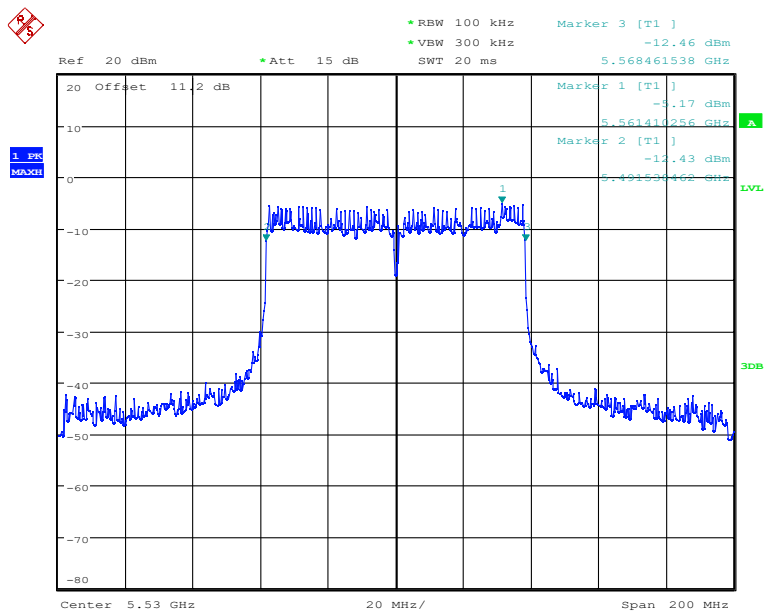
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Date: 17.NOV.2021 21:01:06

Fig.192 6dB Bandwidth: Ch134,11ac (40MHz)

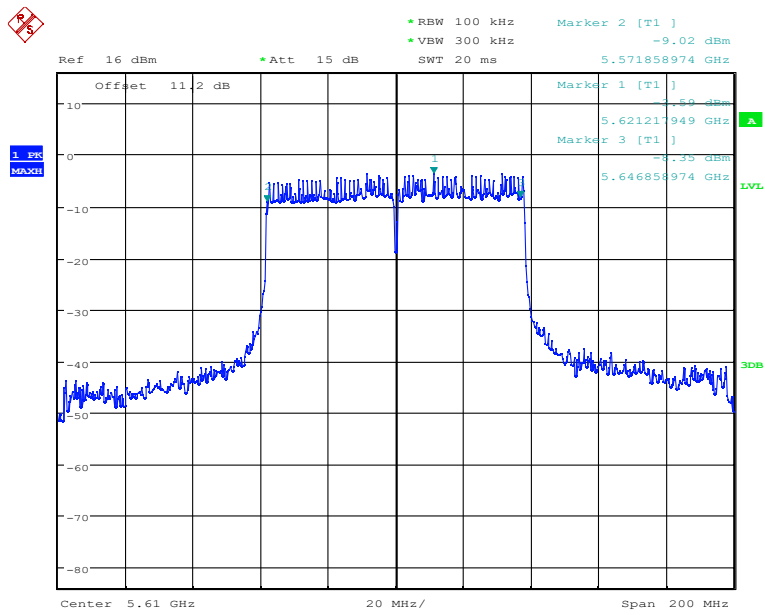


Date: 17.NOV.2021 21:04:58

Fig.193 6dB Bandwidth: Ch106,11ac (80MHz)

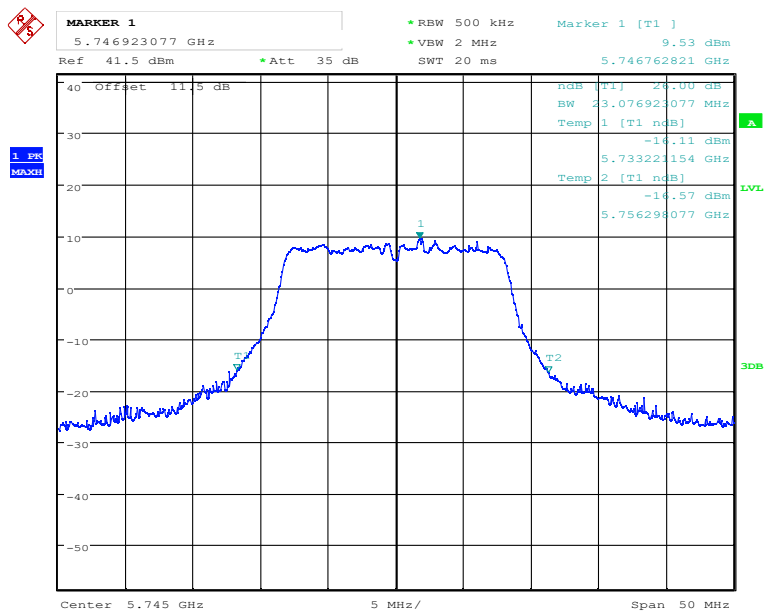
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Date: 17.NOV.2021 21:07:16

Fig.194 6dB Bandwidth: Ch122,11ac (80MHz)

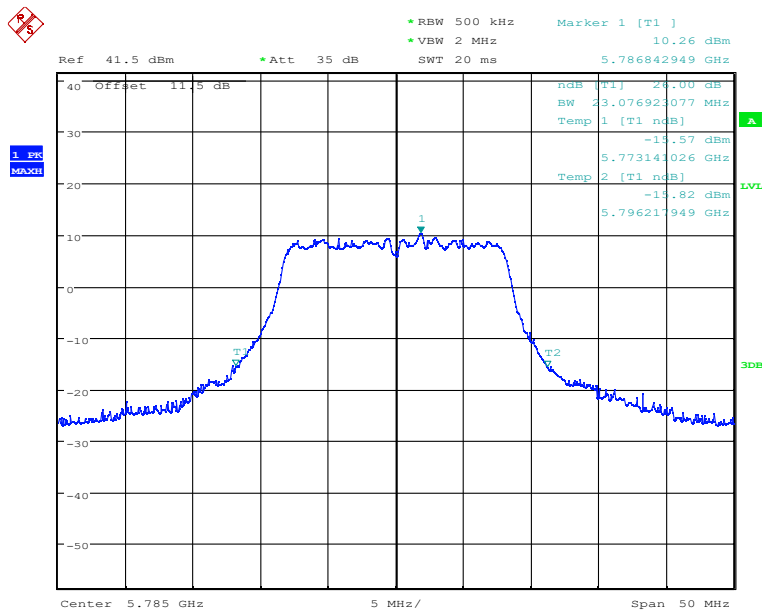


Date: 10.NOV.2021 06:14:21

Fig.195 26dB Bandwidth: Ch149,11a

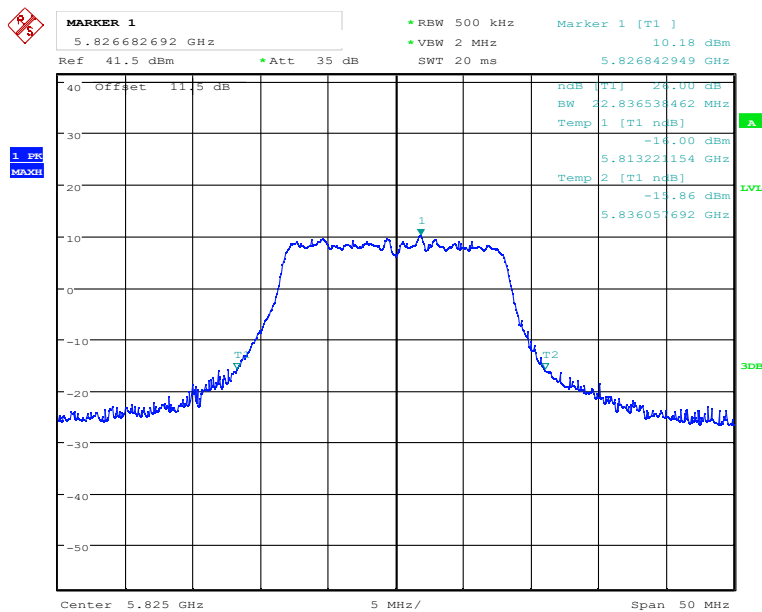
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Date: 10.NOV.2021 06:15:24

Fig.196 26dB Bandwidth: Ch157,11a

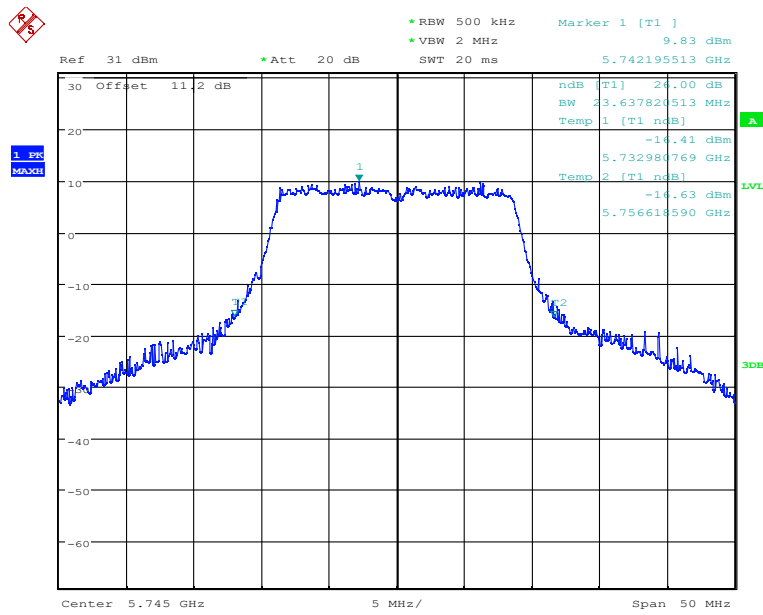


Date: 10.NOV.2021 06:16:16

Fig.197 26dB Bandwidth: Ch165,11a

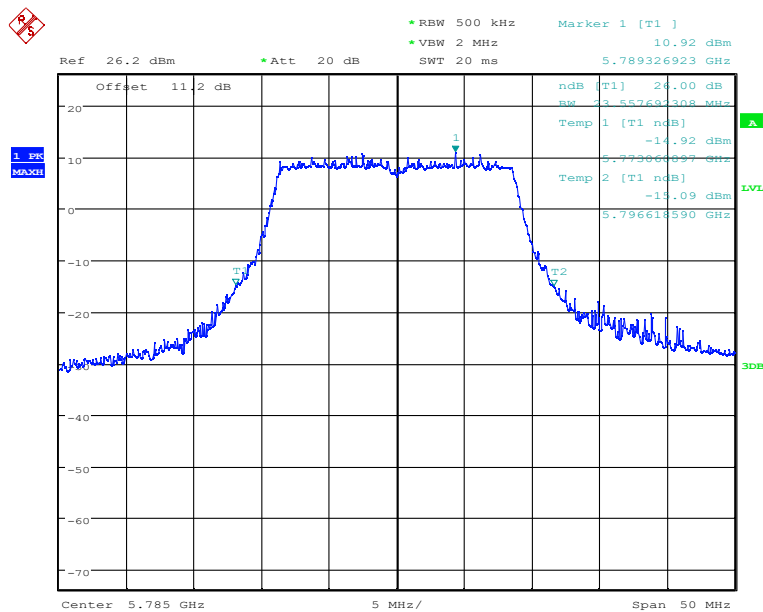
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Date: 17.NOV.2021 20:13:11

Fig.198 26dB Bandwidth: Ch149,11n

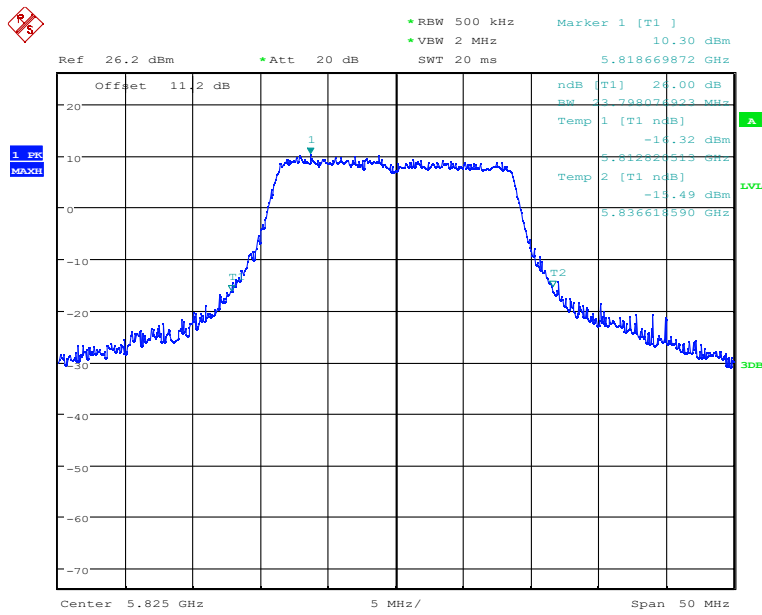


Date: 17.NOV.2021 20:15:25

Fig.199 26dB Bandwidth: Ch157,11n

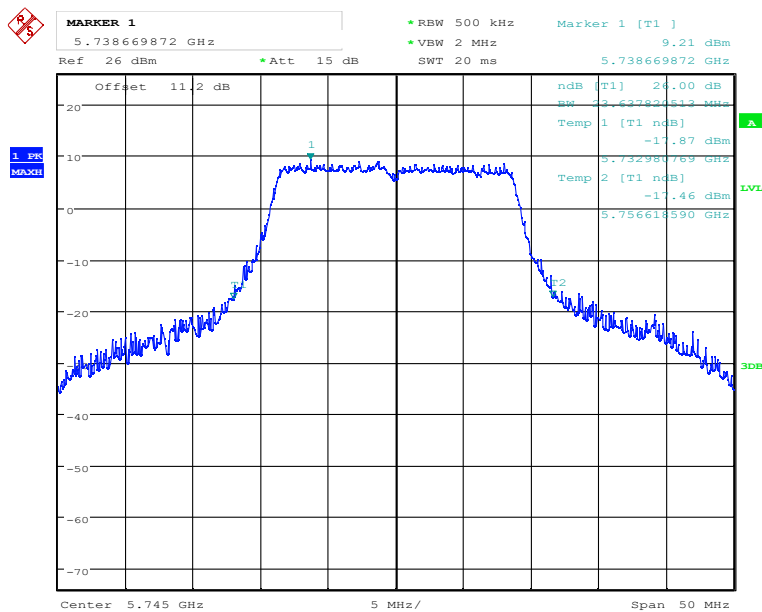
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Date: 17.NOV.2021 20:15:47

Fig.200 26dB Bandwidth: Ch165,11n



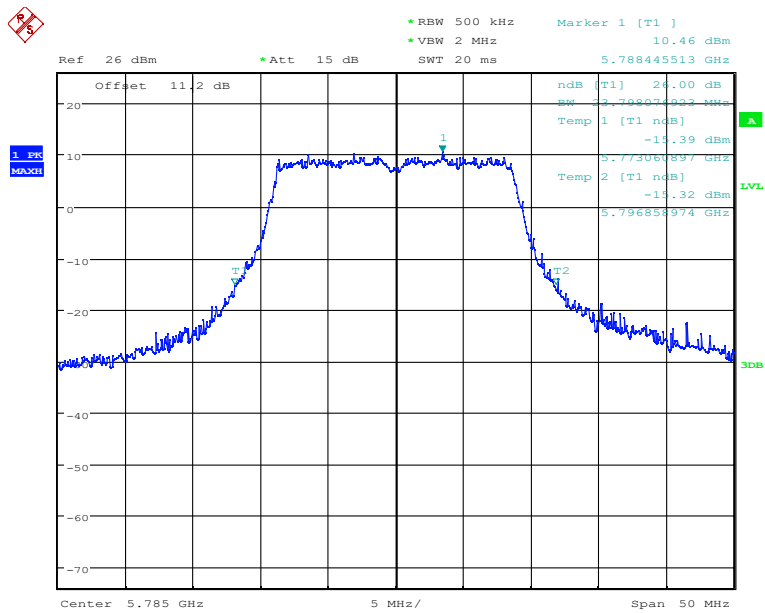
Date: 17.NOV.2021 20:49:46

Fig.201 26dB Bandwidth: Ch149,11ac

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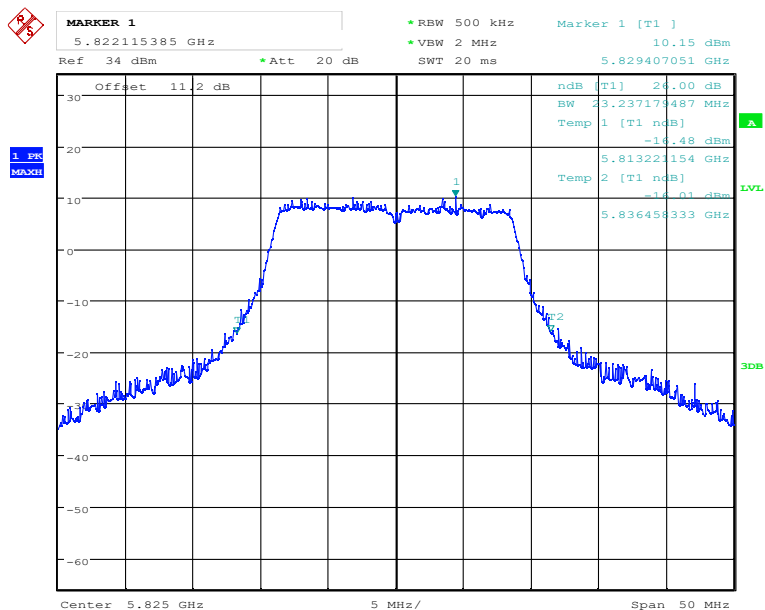
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Date: 17.NOV.2021 20:50:31

Fig.202 26dB Bandwidth: Ch157,11ac

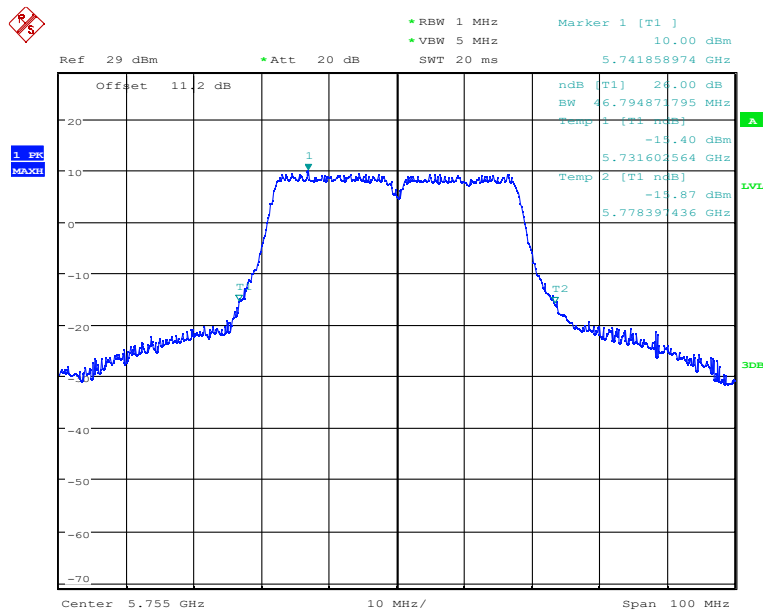


Date: 17.NOV.2021 20:53:18

Fig.203 26dB Bandwidth: Ch165,11ac

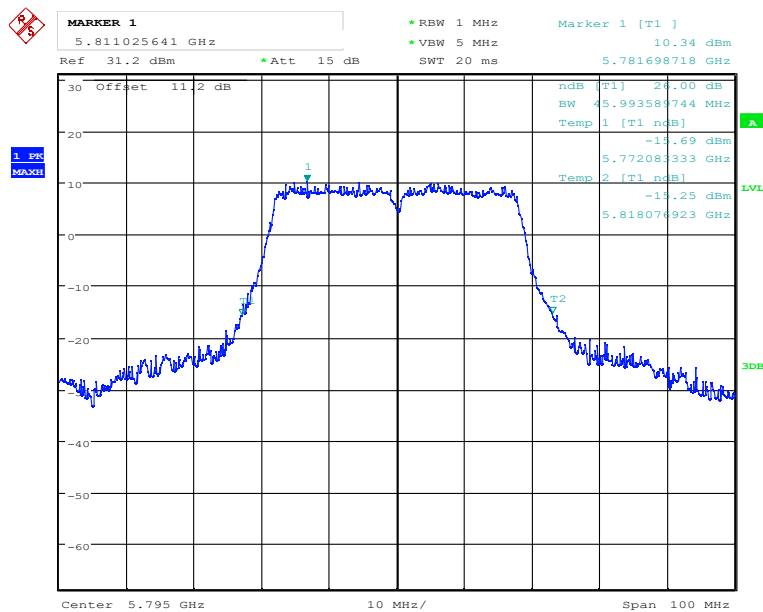
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Date: 17.NOV.2021 20:23:51

Fig.204 26dB Bandwidth: Ch151,11n (40MHz)

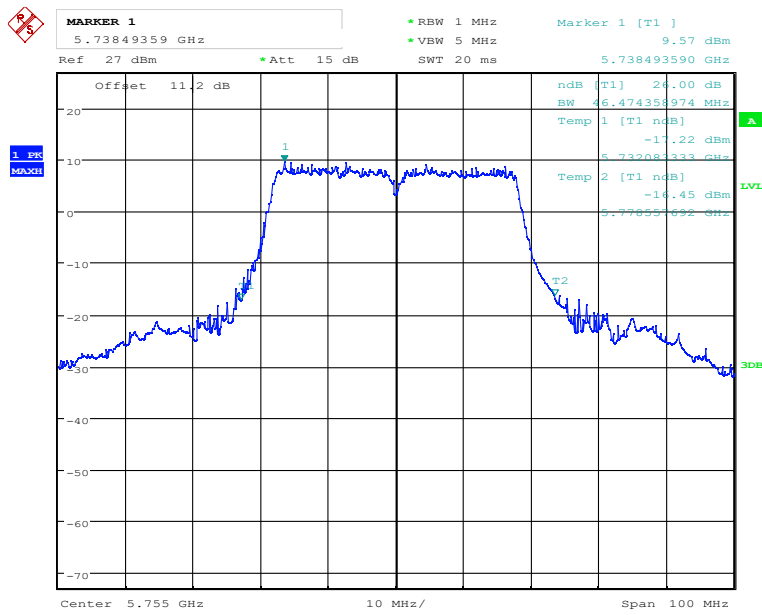


Date: 17.NOV.2021 20:27:18

Fig.205 26dB Bandwidth: Ch159,11n (40MHz)

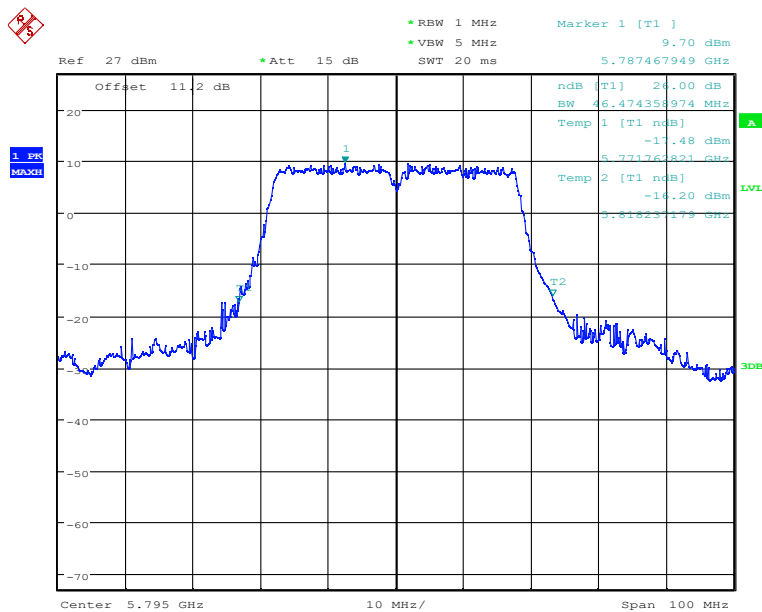
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Date: 17.NOV.2021 21:02:33

Fig.206 26dB Bandwidth: Ch151,11ac (40MHz)

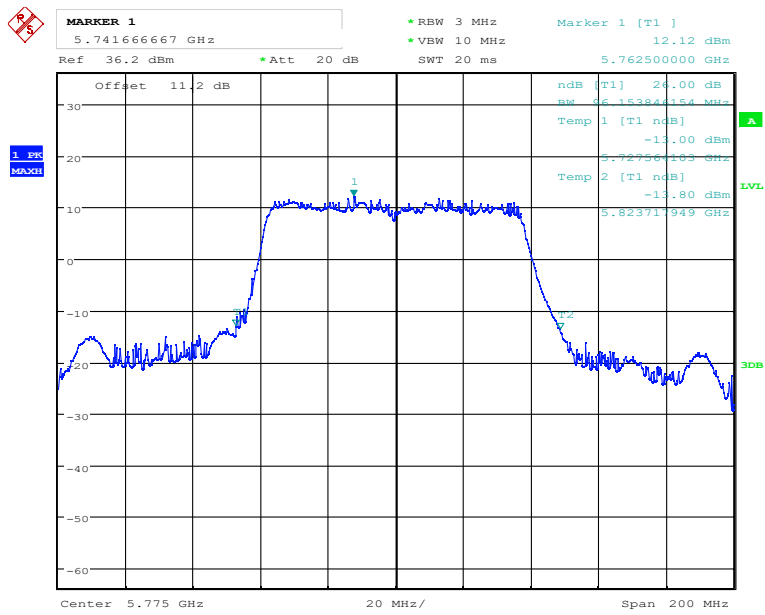


Date: 17.NOV.2021 21:02:53

Fig.207 26dB Bandwidth: Ch159,11ac (40MHz)

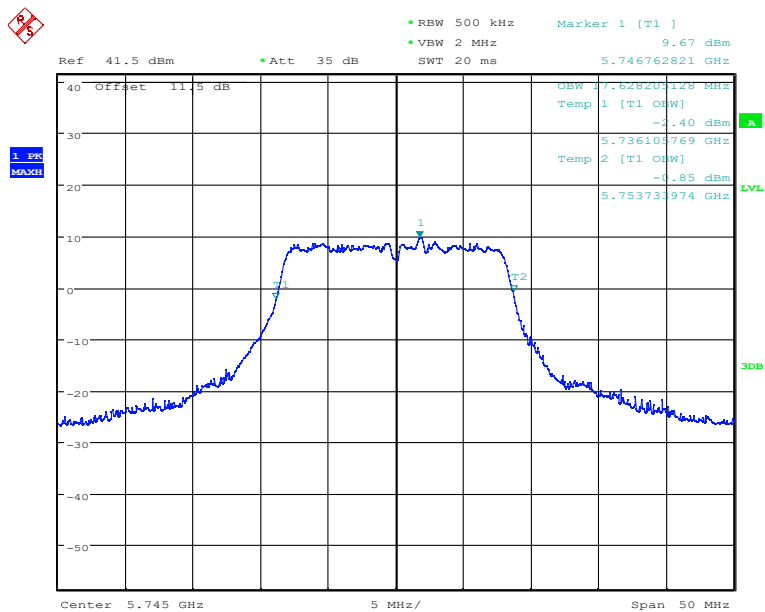
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Date: 17.NOV.2021 21:09:29

Fig.208 26dB Bandwidth: Ch155,11ac (80MHz)

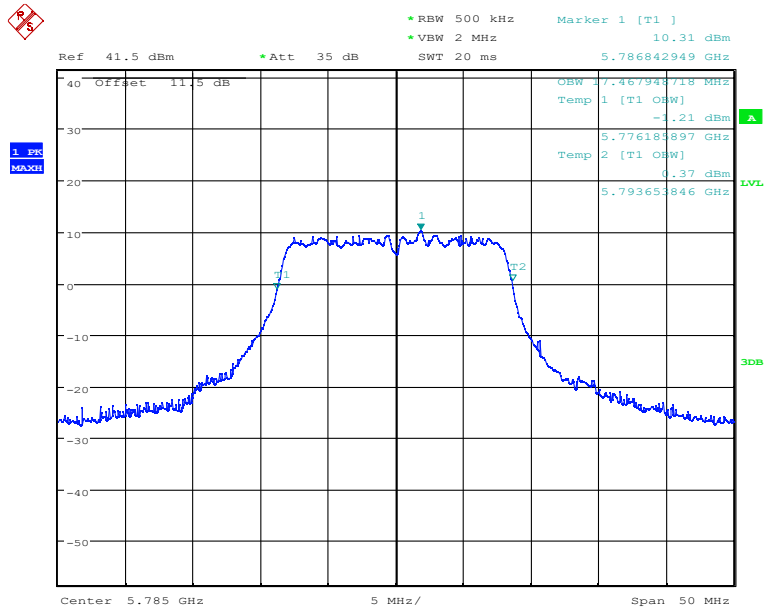


Date: 10.NOV.2021 06:14:07

Fig.209 99% Bandwidth: Ch149,11a

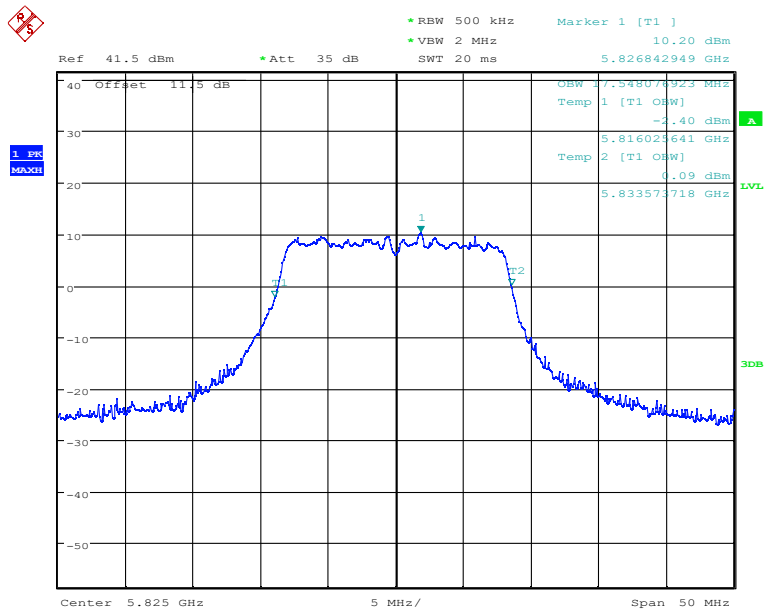
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Date: 10.NOV.2021 06:15:35

Fig.210 99% Bandwidth: Ch157,11a

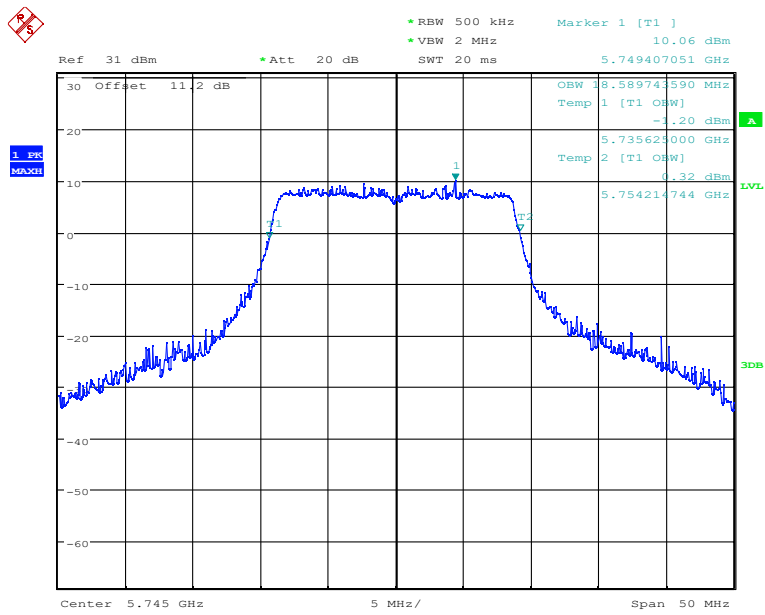


Date: 10.NOV.2021 06:16:06

Fig.211 99% Bandwidth: Ch165,11a

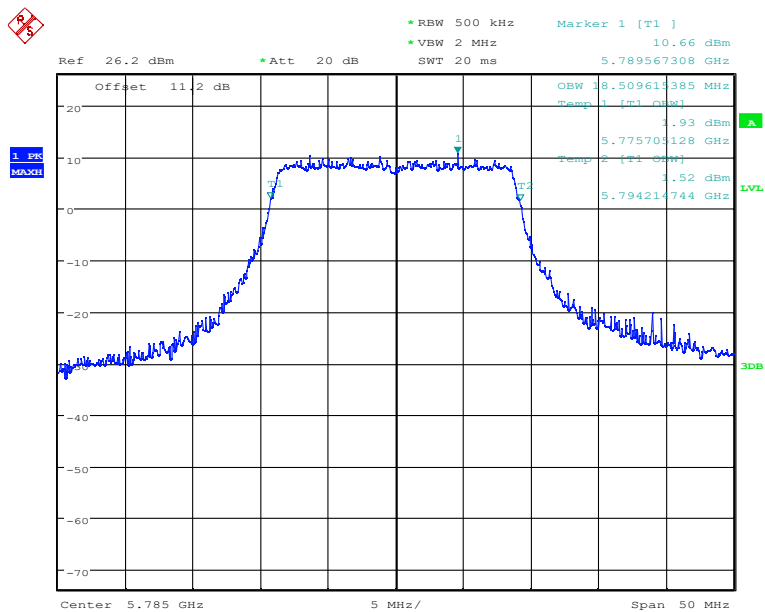
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Date: 17.NOV.2021 20:13:19

Fig.212 99% Bandwidth: Ch149,11n

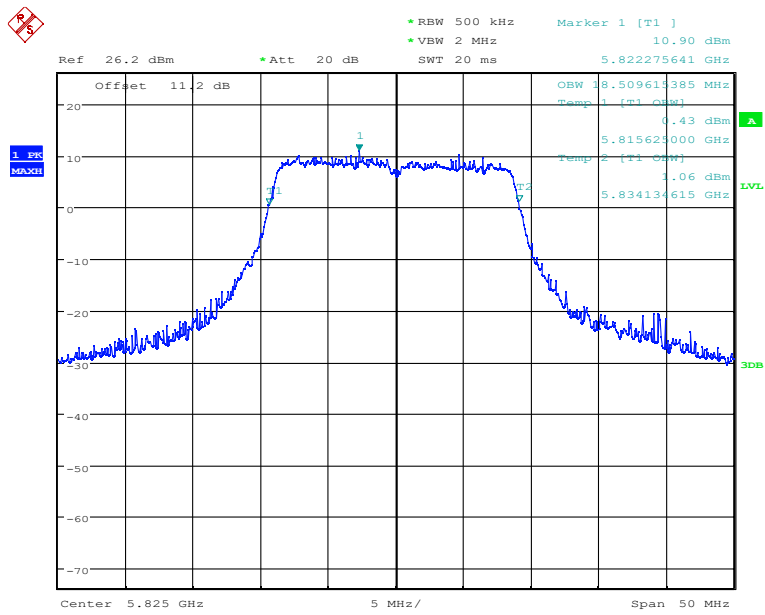


Date: 17.NOV.2021 20:15:17

Fig.213 99% Bandwidth: Ch157,11n

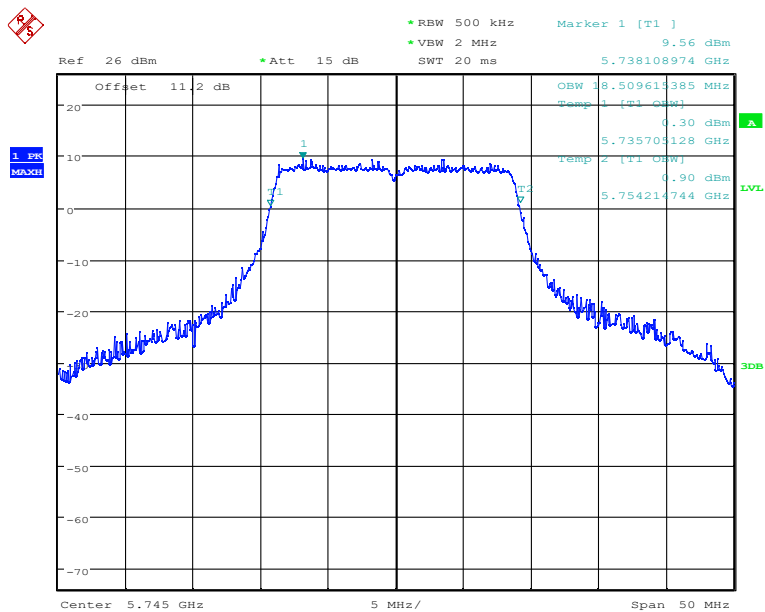
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Date: 17.NOV.2021 20:15:54

Fig.214 99% Bandwidth: Ch165,11n

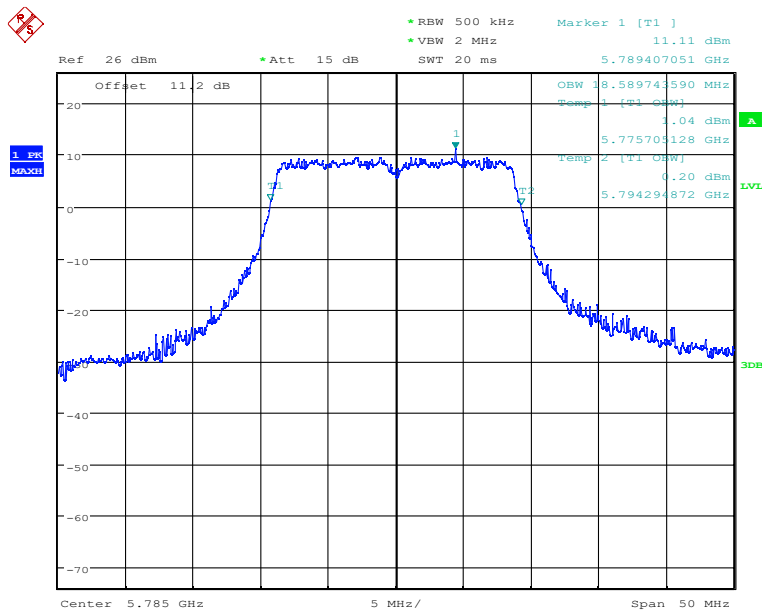


Date: 17.NOV.2021 20:49:39

Fig.215 99% Bandwidth: Ch149,11ac

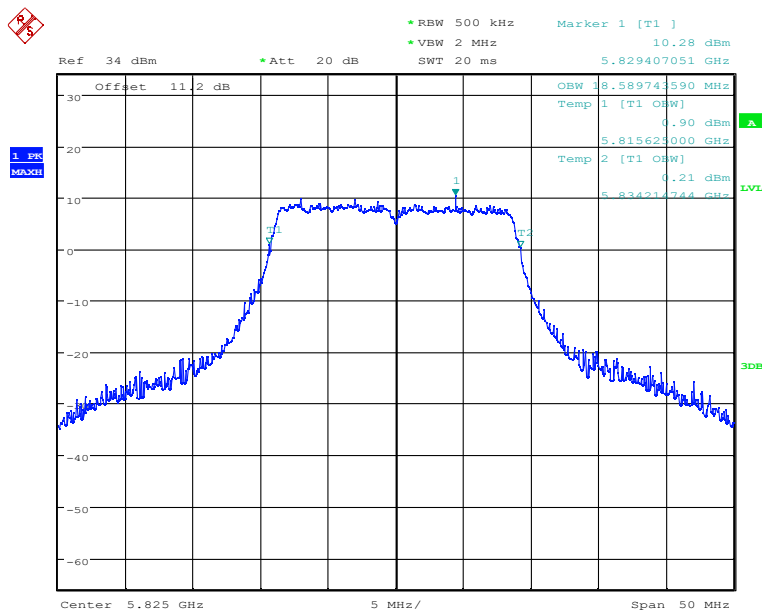
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Date: 17.NOV.2021 20:50:37

Fig.216 99% Bandwidth: Ch157,11ac



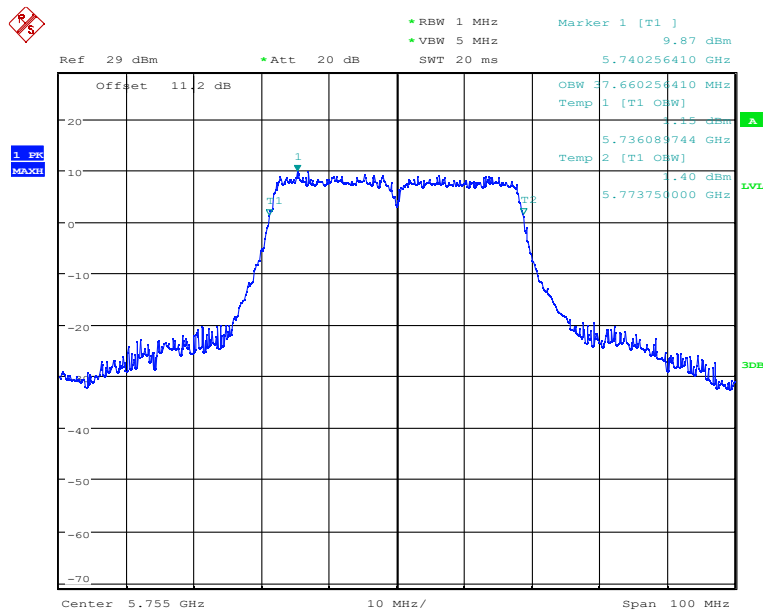
Date: 17.NOV.2021 20:53:12

Fig.217 99% Bandwidth: Ch165,11ac

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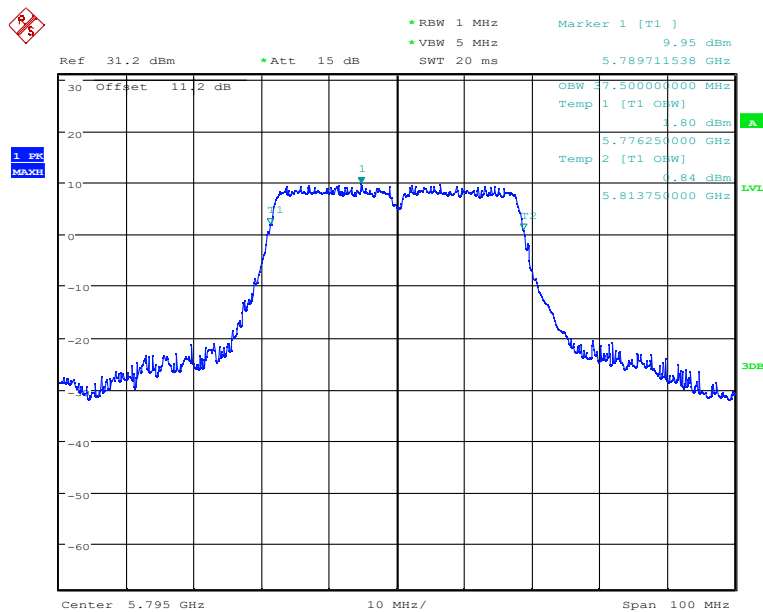
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Date: 17.NOV.2021 20:23:58

Fig.218 99% Bandwidth: Ch151,11n (40MHz)

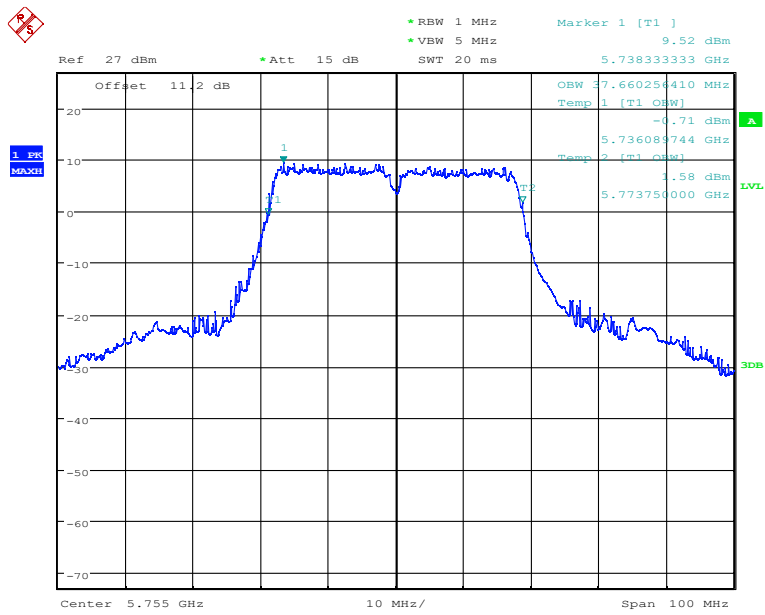


Date: 17.NOV.2021 20:27:12

Fig.219 99% Bandwidth: Ch159,11n (40MHz)

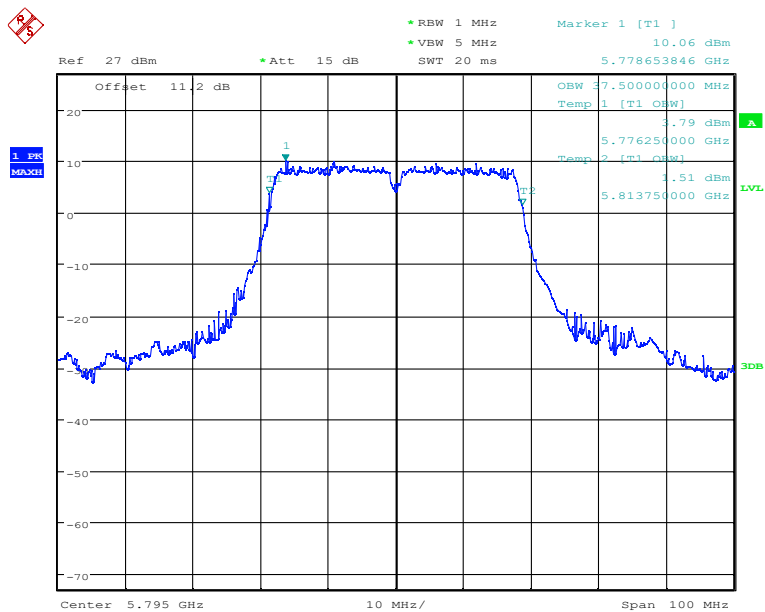
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Date: 17.NOV.2021 21:02:27

Fig.220 99% Bandwidth: Ch151,11ac (40MHz)

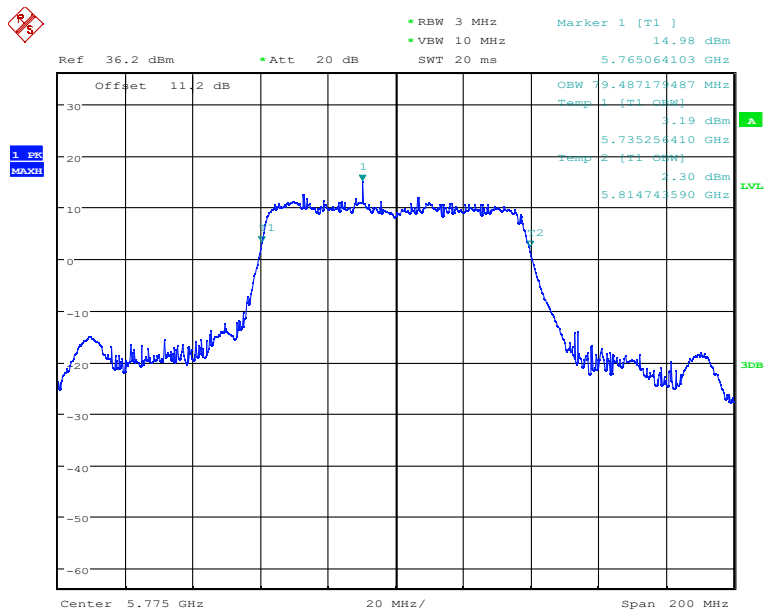


Date: 17.NOV.2021 21:03:02

Fig.221 99% Bandwidth: Ch159,11ac (40MHz)

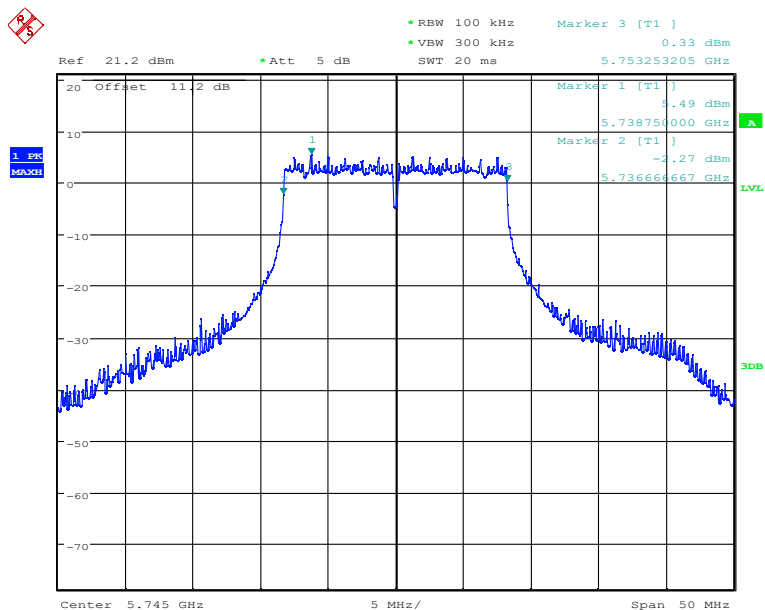
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Date: 17.NOV.2021 21:09:20

Fig.222 99% Bandwidth: Ch155,11ac (80MHz)

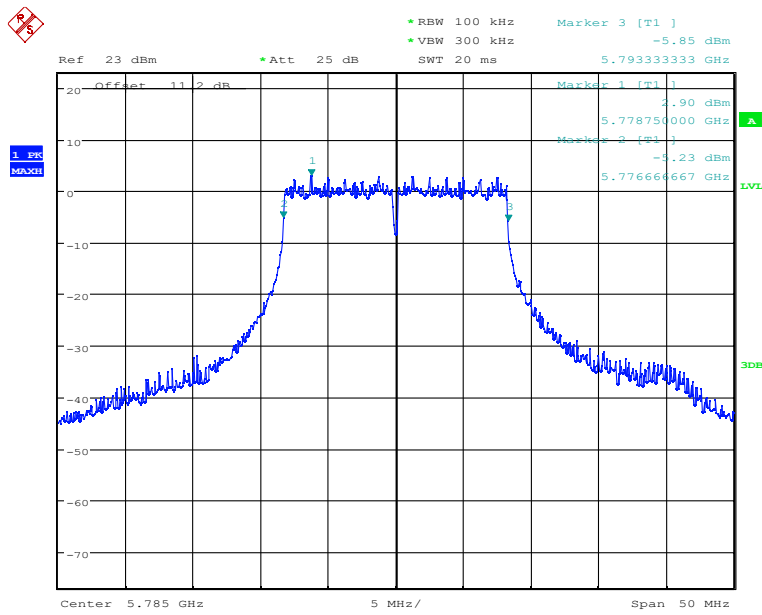


Date: 17.NOV.2021 20:04:46

Fig.223 6dB Bandwidth: Ch149,11a

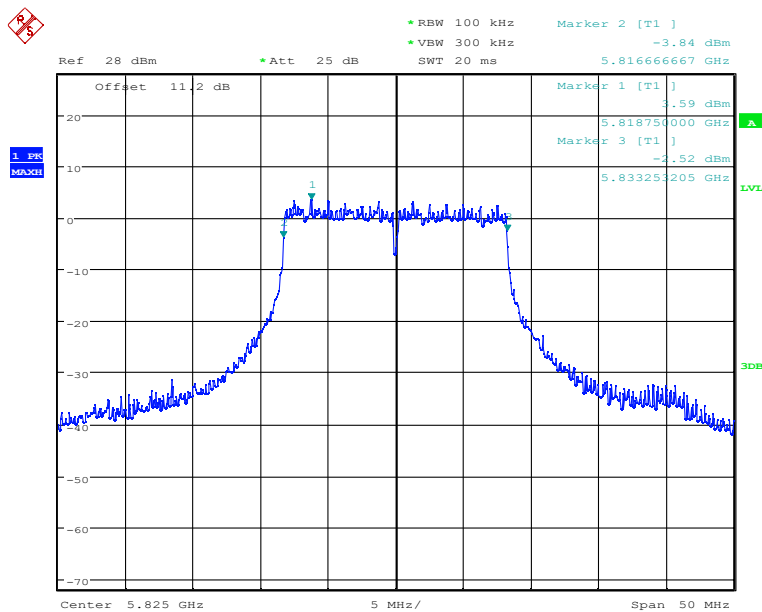
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Date: 17.NOV.2021 20:06:13

Fig.224 6dB Bandwidth: Ch157,11a

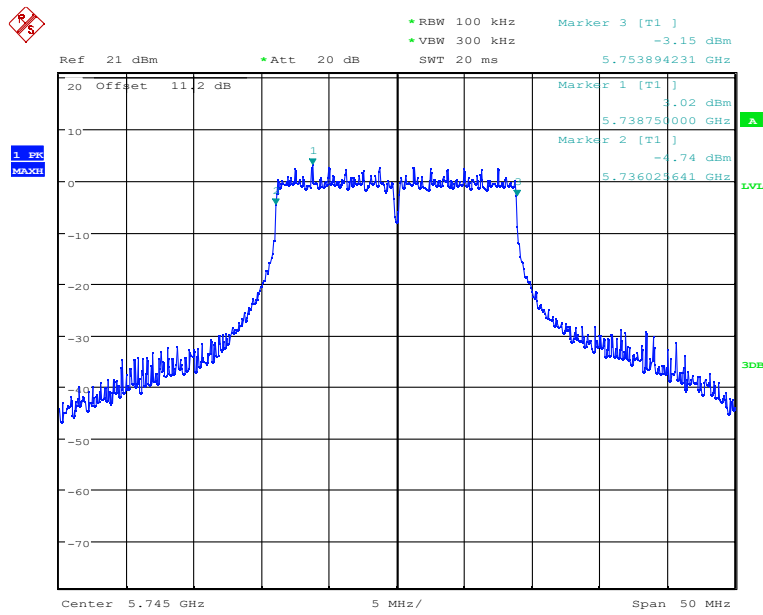


Date: 17.NOV.2021 20:07:13

Fig.225 6dB Bandwidth: Ch165,11a

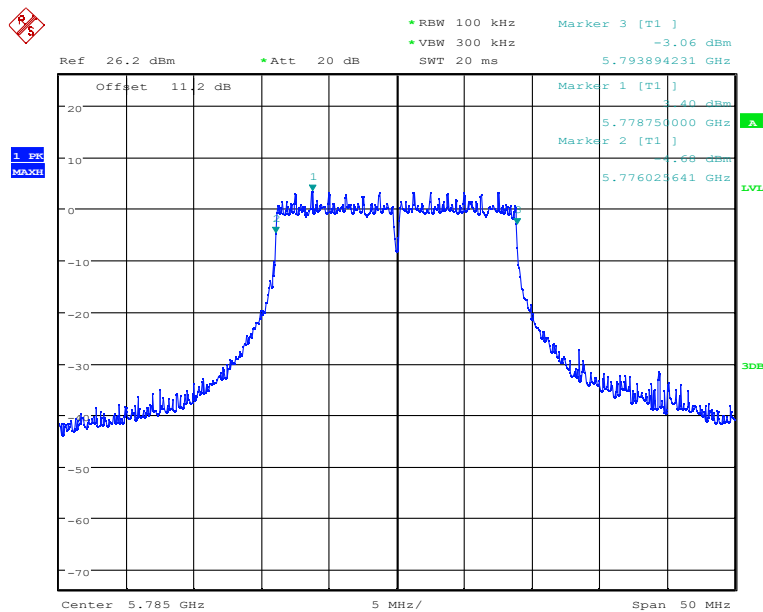
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Date: 17.NOV.2021 20:13:46

Fig.226 6dB Bandwidth: Ch149,11n

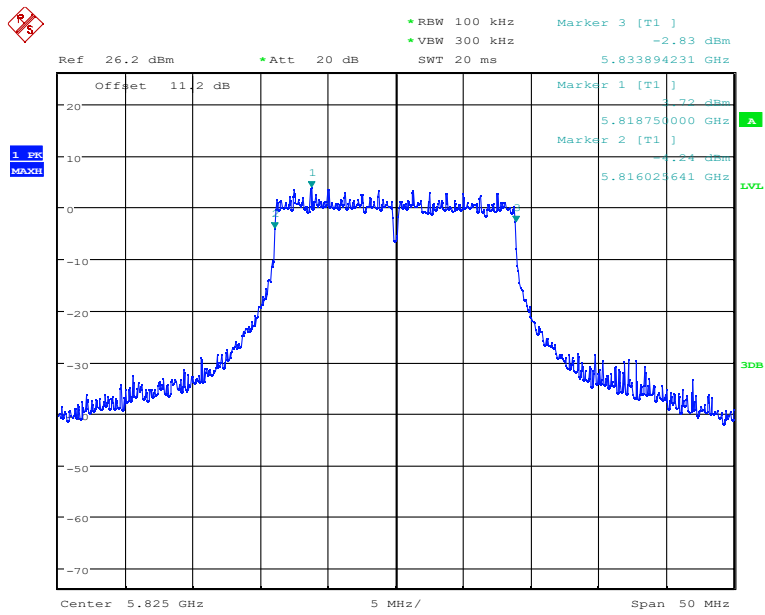


Date: 17.NOV.2021 20:15:02

Fig.227 6dB Bandwidth: Ch157,11n

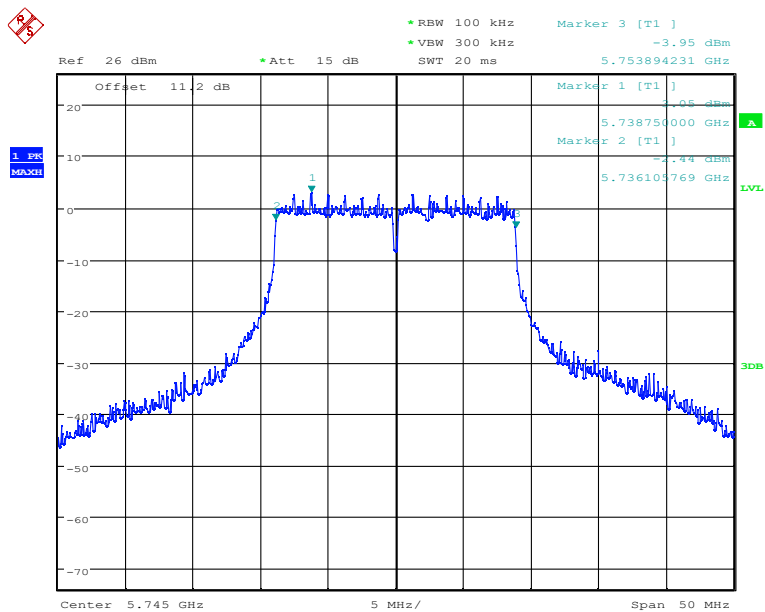
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Date: 17.NOV.2021 20:16:17

Fig.228 6dB Bandwidth: Ch165,11n

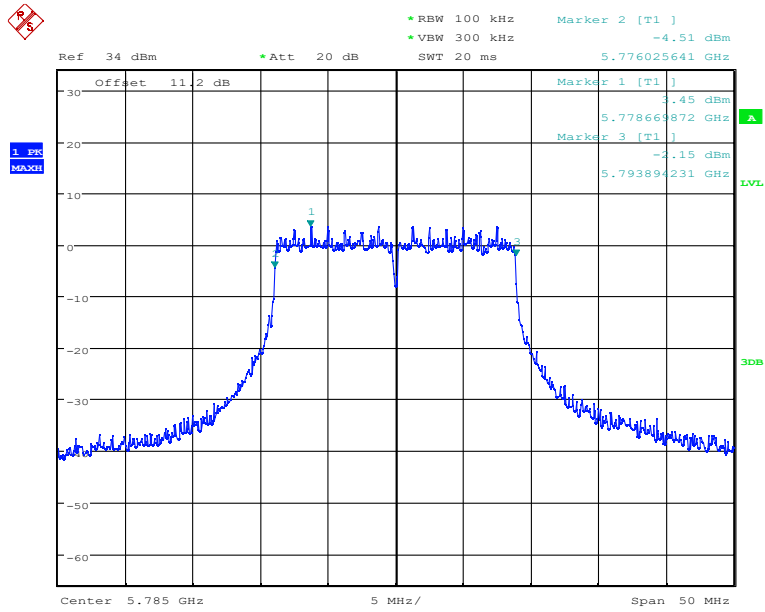


Date: 17.NOV.2021 20:49:22

Fig.229 6dB Bandwidth: Ch149,11ac

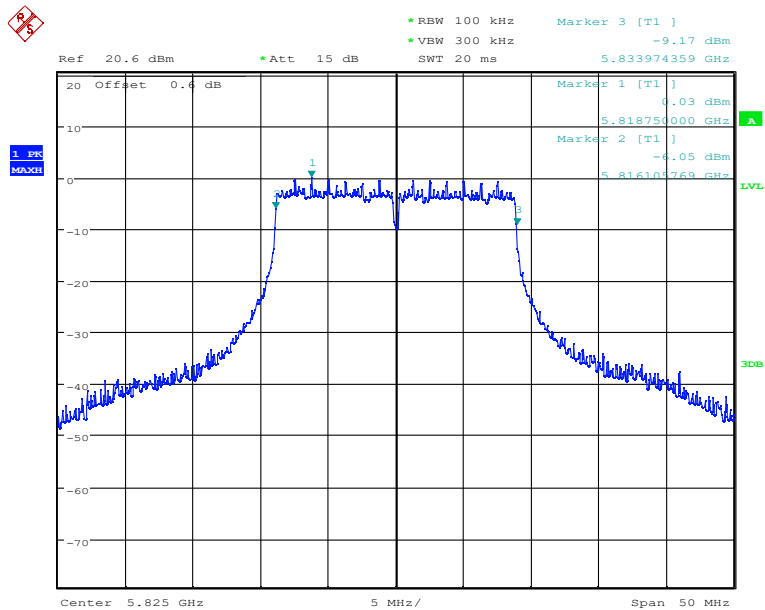
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Date: 17.NOV.2021 20:51:52

Fig.230 6dB Bandwidth: Ch157,11ac

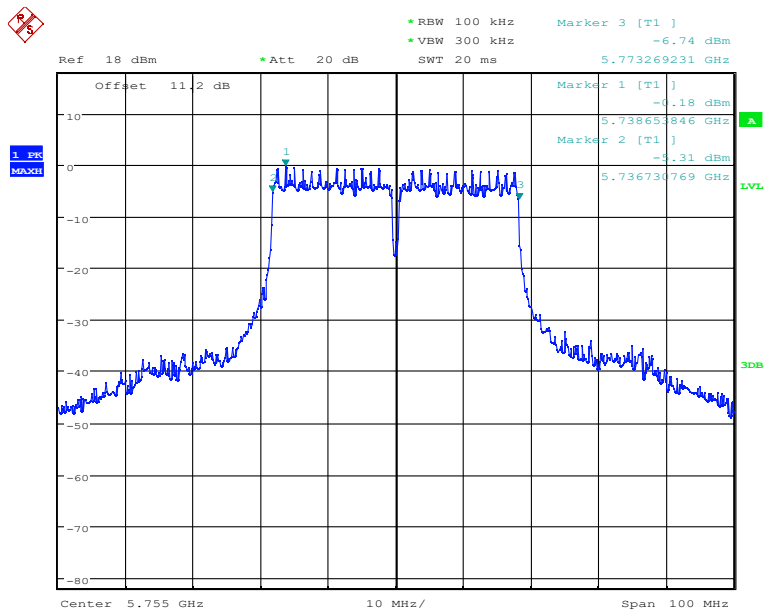


Date: 1.DEC.2021 04:08:11

Fig.231 6dB Bandwidth: Ch165,11ac

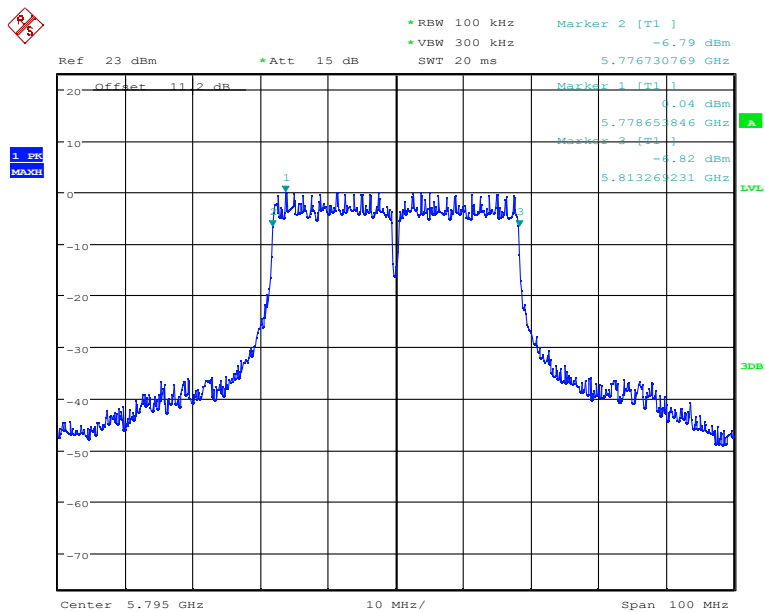
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Date: 17.NOV.2021 20:24:35

Fig.232 6dB Bandwidth: Ch151,11n (40MHz)



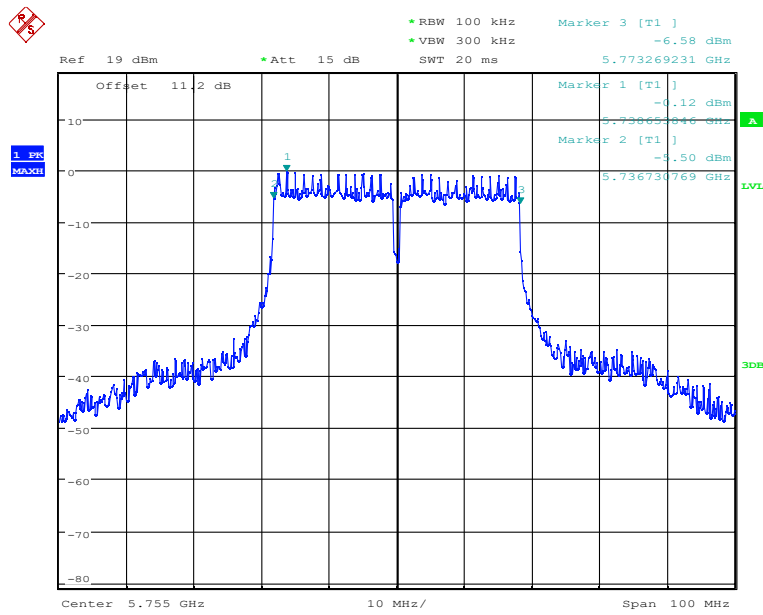
Date: 17.NOV.2021 20:26:53

Fig.233 6dB Bandwidth: Ch159,11n (40MHz)

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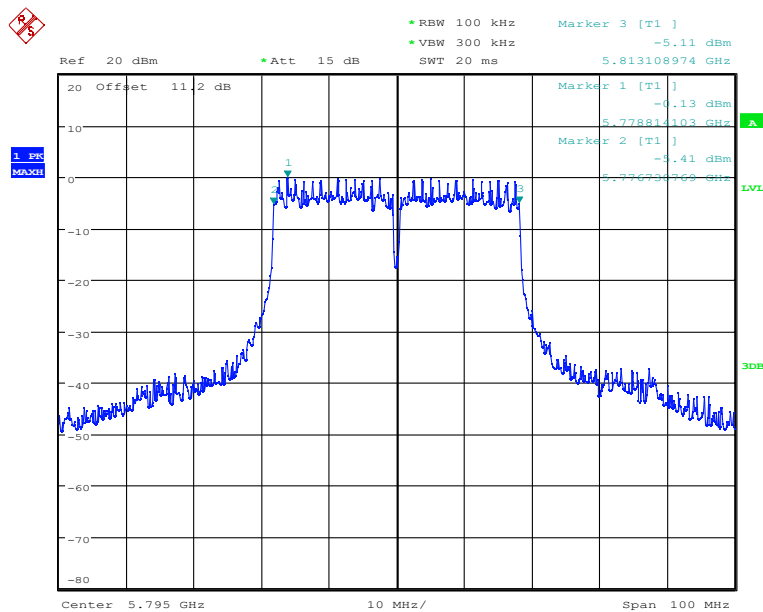
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Date: 17.NOV.2021 21:02:09

Fig.234 6dB Bandwidth: Ch151,11ac (40MHz)

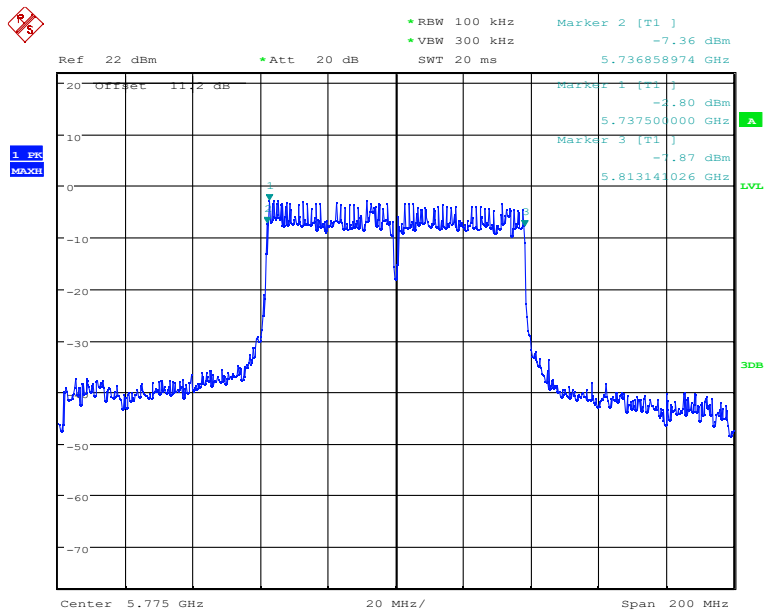


Date: 17.NOV.2021 21:03:30

Fig.235 6dB Bandwidth: Ch159,11ac (40MHz)

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

Fig.236 6dB Bandwidth: Ch155,11ac (80MHz)

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### 5.5 Band Edges Compliance

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

- 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.
- 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 dB $\mu$ V/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 dB $\mu$ V/m at 3 m.

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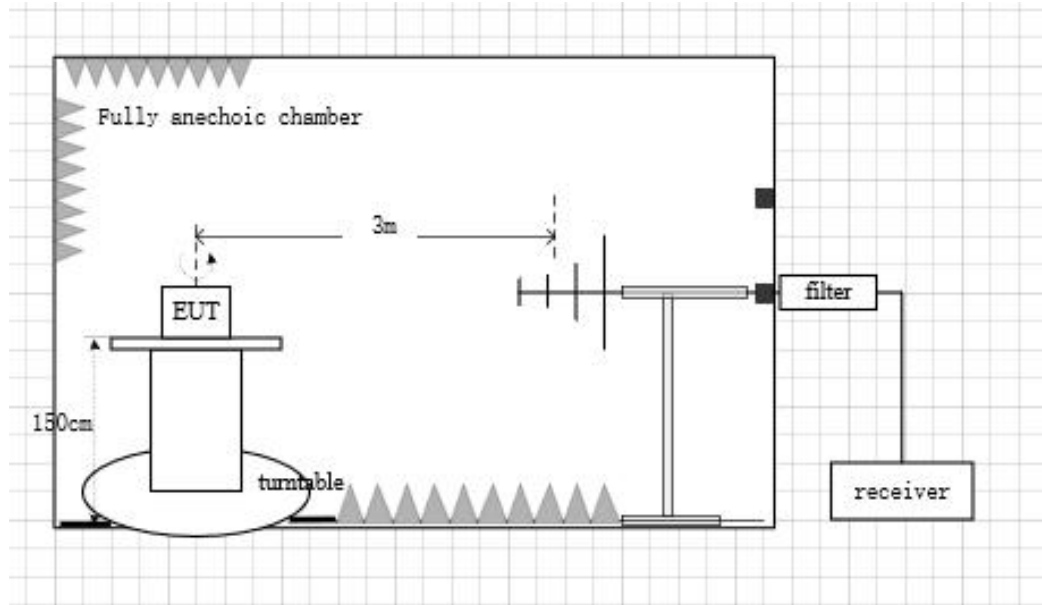
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3. Reference level: As required to keep the signal from exceeding the maximum spectrum analyzer input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than  $[10 \log (\text{OBW}/\text{RBW})]$  below the 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.237	Pass
	48	Fig.238	Pass
	52	Fig.239	Pass
	64	Fig.240	Pass
	100	Fig.241	Pass
	140	Fig.242	Pass
	149	Fig.243	Pass

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	165	Fig.244	Pass
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**802.11n mode**

mode	Channel	Test Results(dBuV/m)	Conclusion
802.11n (20M)	36	Fig.245	Pass
	48	Fig.246	Pass
	52	Fig.247	Pass
	64	Fig.248	Pass
	100	Fig.249	Pass
	140	Fig.250	Pass
	149	Fig.251	Pass
	165	Fig.252	Pass

mode	Channel	Test Results(dBuV/m)	Conclusion
802.11n (40M)	38	Fig.253	Pass
	46	Fig.254	Pass
	54	Fig.255	Pass

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	62	Fig.256	Pass
	102	Fig.257	Pass
	134	Fig.258	Pass
	151	Fig.259	Pass
	159	Fig.260	Pass

**802.11ac mode**

mode	Channel	Test Results(dBuV/m)	Conclusion
802.11ac (20M)	36	Fig.261	Pass
	48	Fig.262	Pass
	52	Fig.263	Pass
	64	Fig.264	Pass
	100	Fig.265	Pass
	140	Fig.266	Pass
	149	Fig.267	Pass
	165	Fig.268	Pass

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mode	Channel	Test Results(dBuV/m)	Conclusion
802.11ac (40M)	38	Fig.269	Pass
	46	Fig.270	Pass
	54	Fig.271	Pass
	62	Fig.272	Pass
	102	Fig.273	Pass
	134	Fig.274	Pass
	151	Fig.275	Pass
	159	Fig.276	Pass

mode	Channel	Test Results(dBuV/m)	Conclusion
802.11ac (80M)	42	Fig.277	Pass
	58	Fig.278	Pass
	106	Fig.279	Pass
	155	Fig.280	Pass

**Conclusion: PASS**

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Test figure as below:

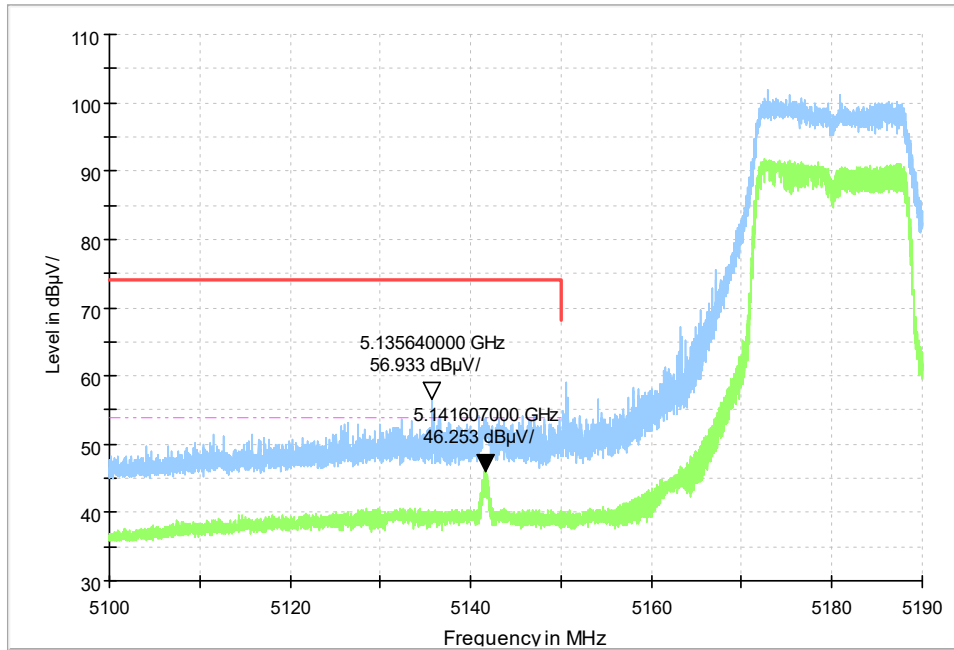


Fig.237 Frequency Band Edge: 802.11a,CH36

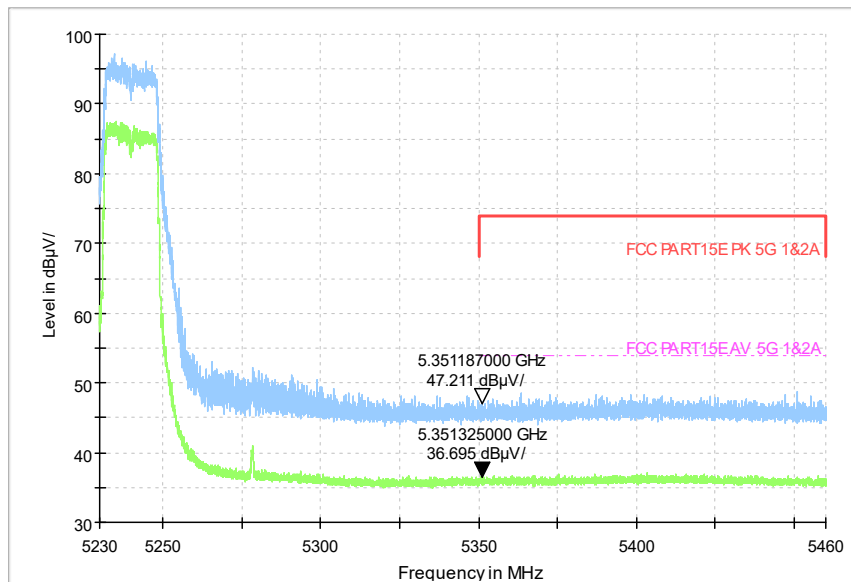


Fig.238 Frequency Band Edge: 802.11a,CH48

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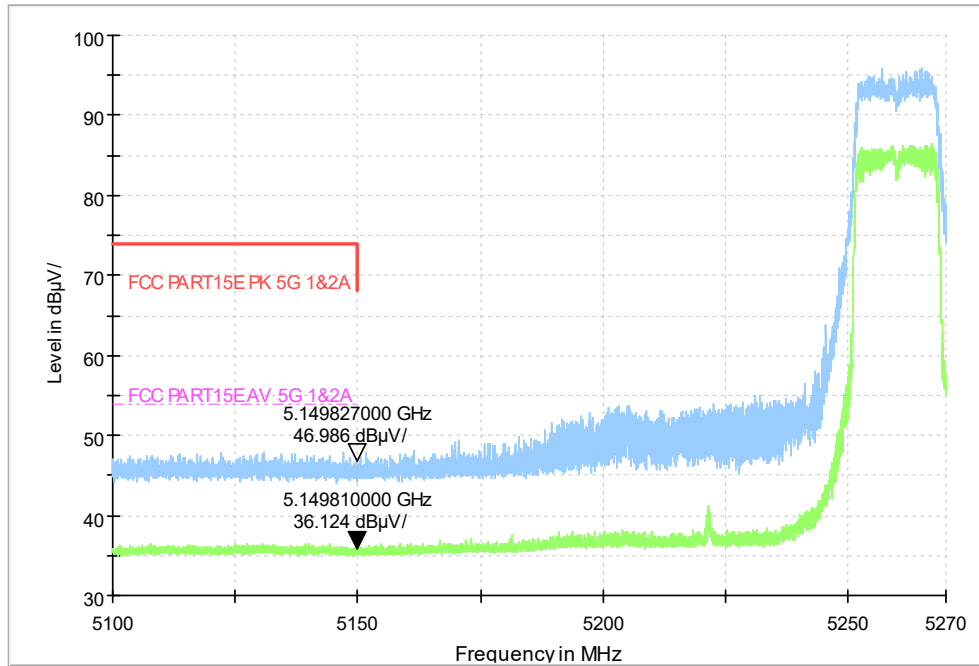


Fig.239 Frequency Band Edge: 802.11a,CH52

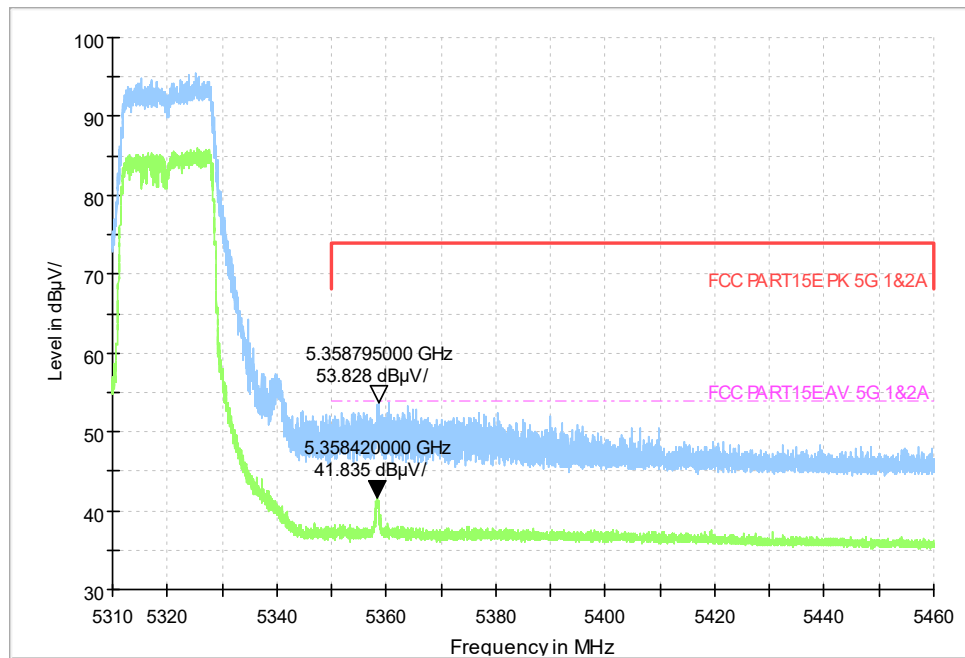


Fig.240 Frequency Band Edge: 802.11a,CH64

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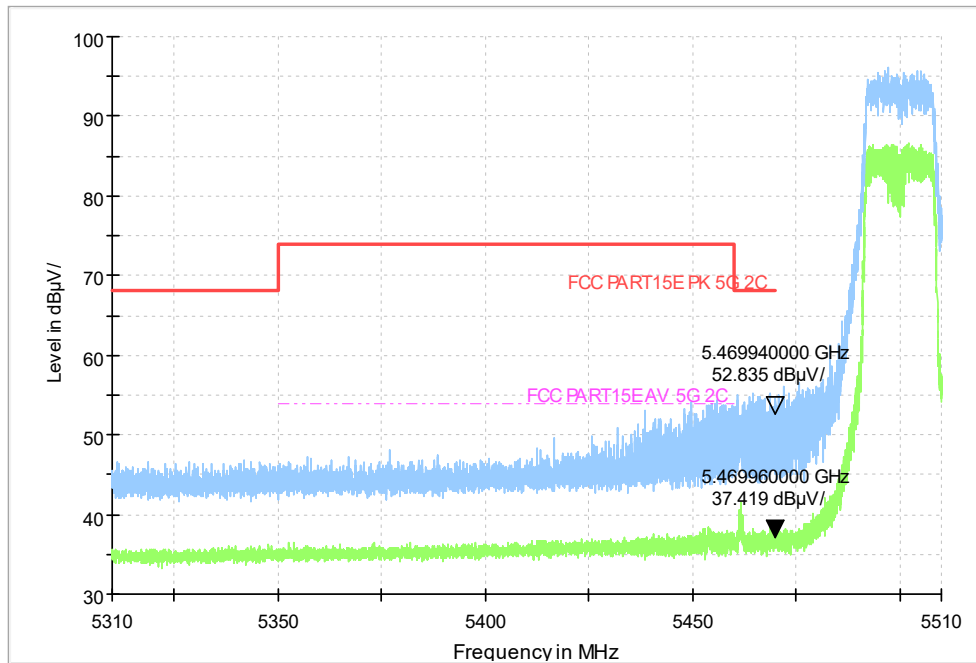


Fig.241 Frequency Band Edge: 802.11a,CH100

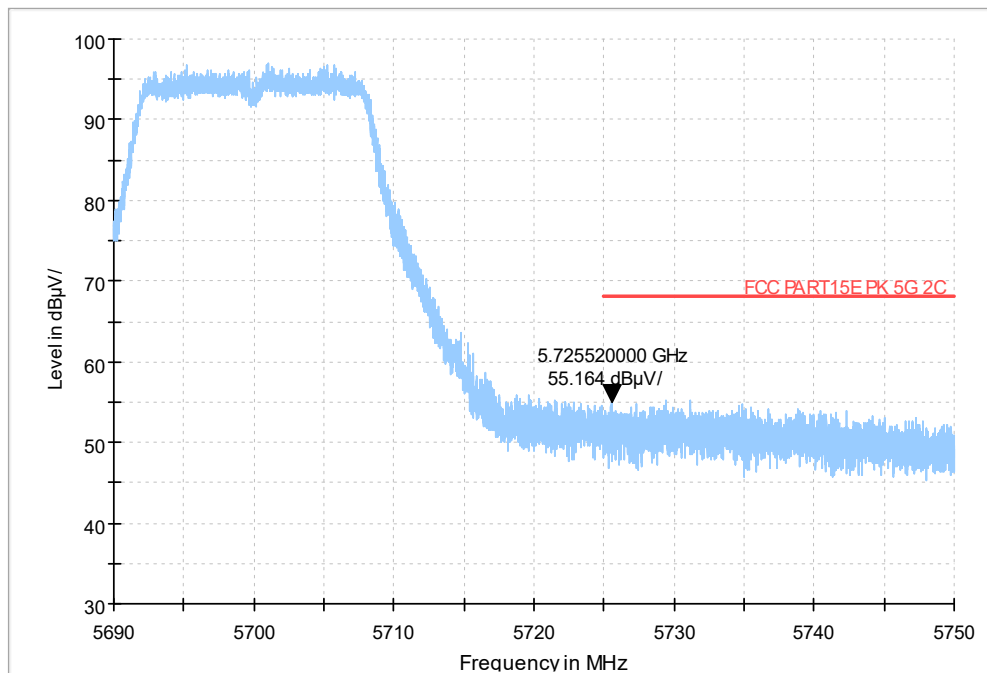


Fig.242 Frequency Band Edge: 802.11a,CH140

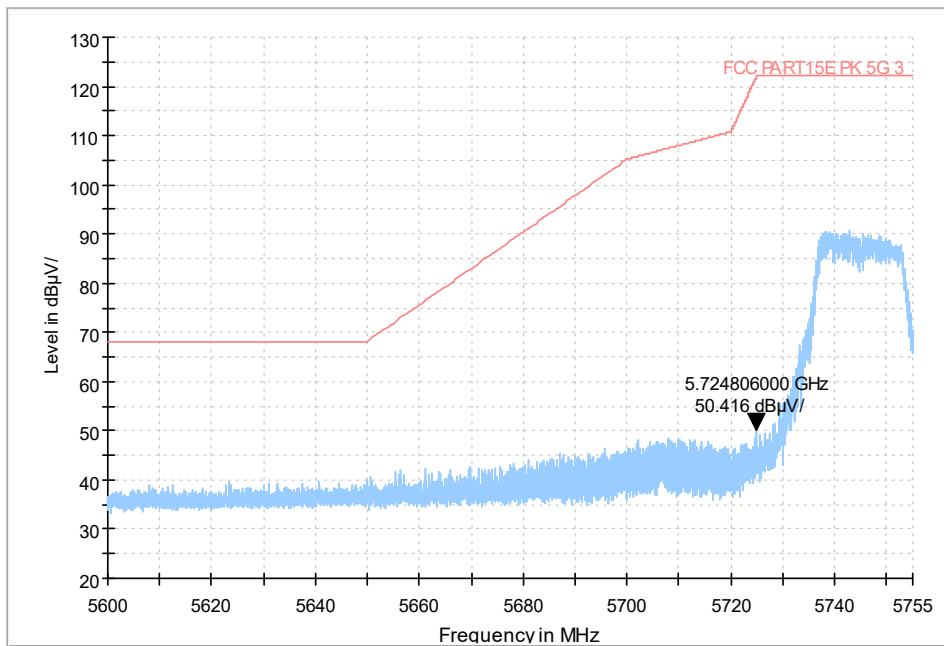


Fig.243 Frequency Band Edge: 802.11a,CH149

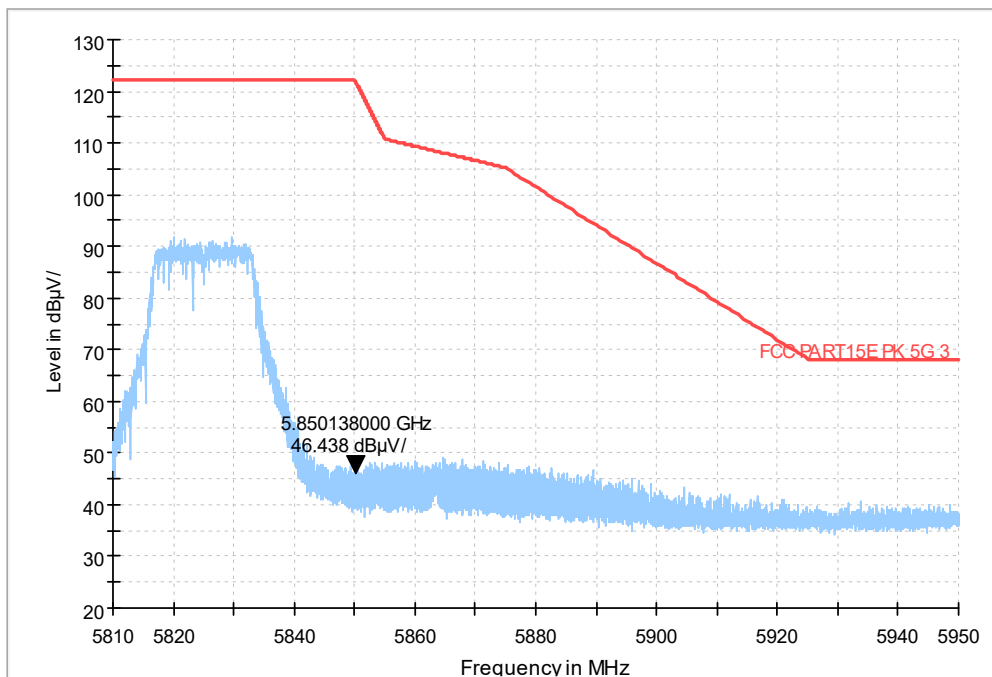


Fig.244 Frequency Band Edge:802.11a,CH165

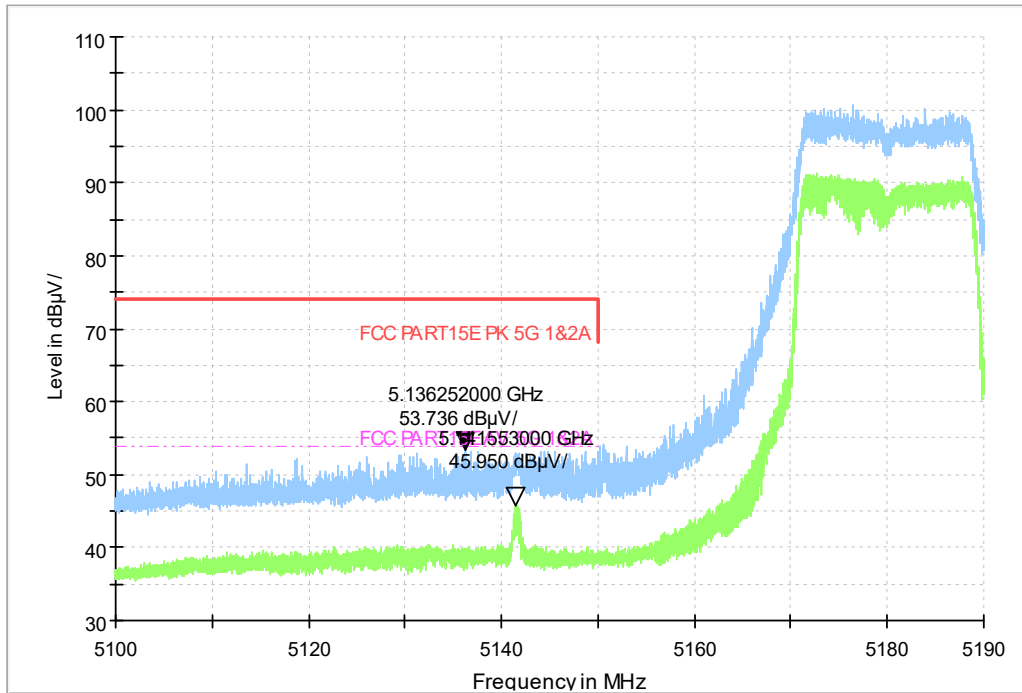


Fig.245 Frequency Band Edge: 802.11n(20M),CH36

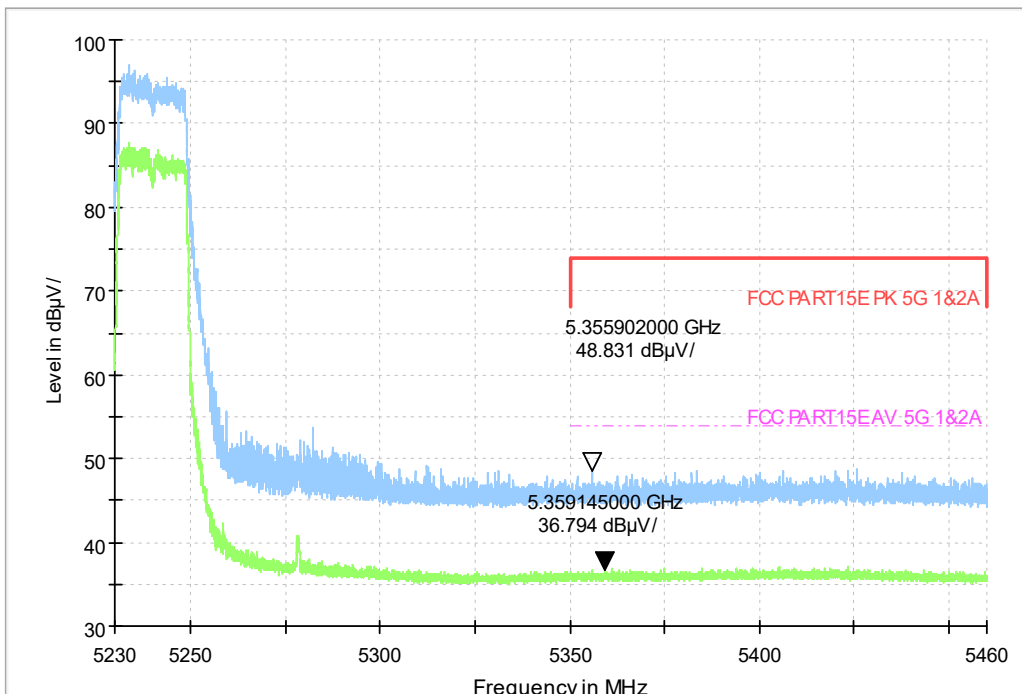


Fig.246 Frequency Band Edge: 802.11n(20M),CH48

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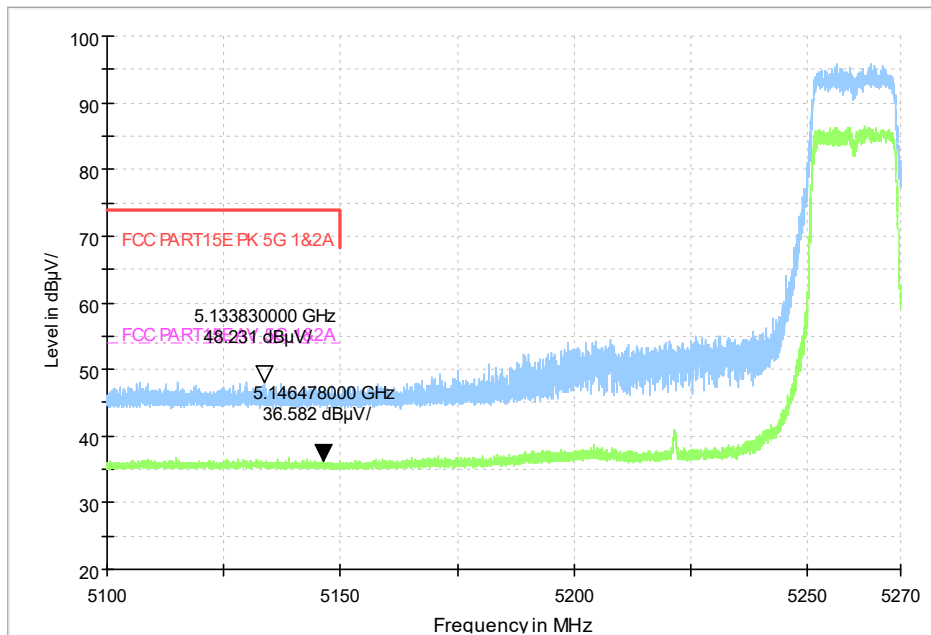


Fig.247 Frequency Band Edge: 802.11n(20M),CH52

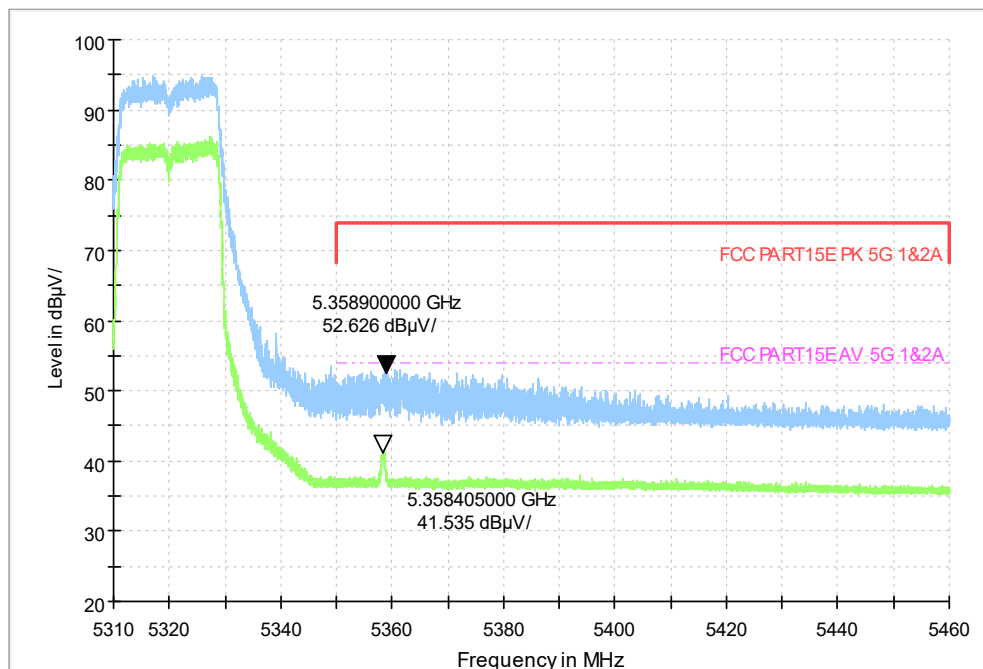


Fig.248 Frequency Band Edge: 802.11n(20M),CH64

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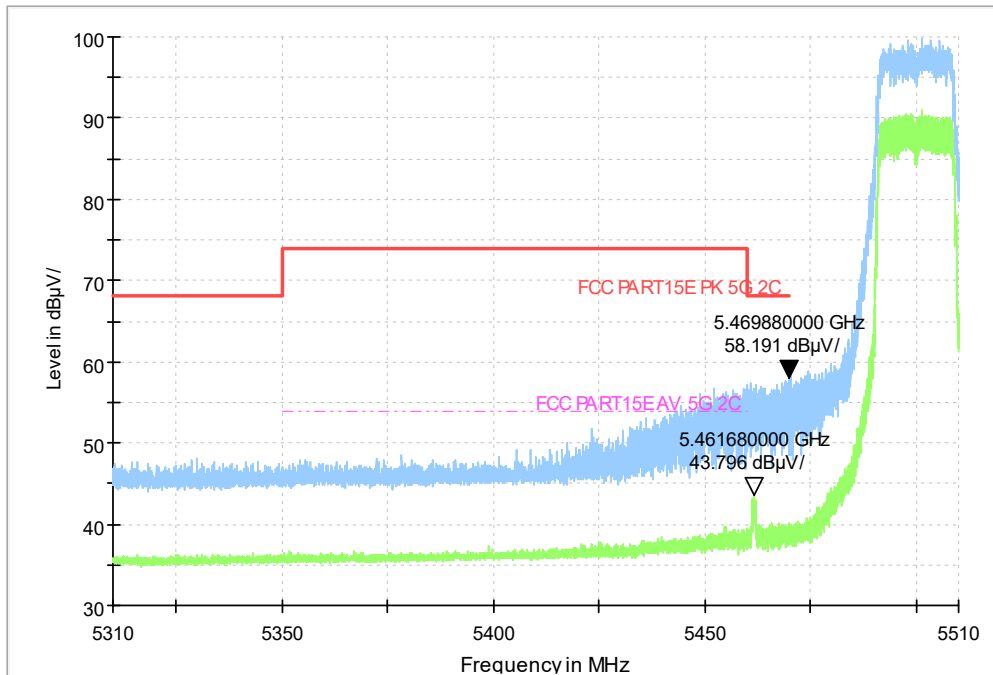


Fig.249 Frequency Band Edge: 802.11n(20M),CH100

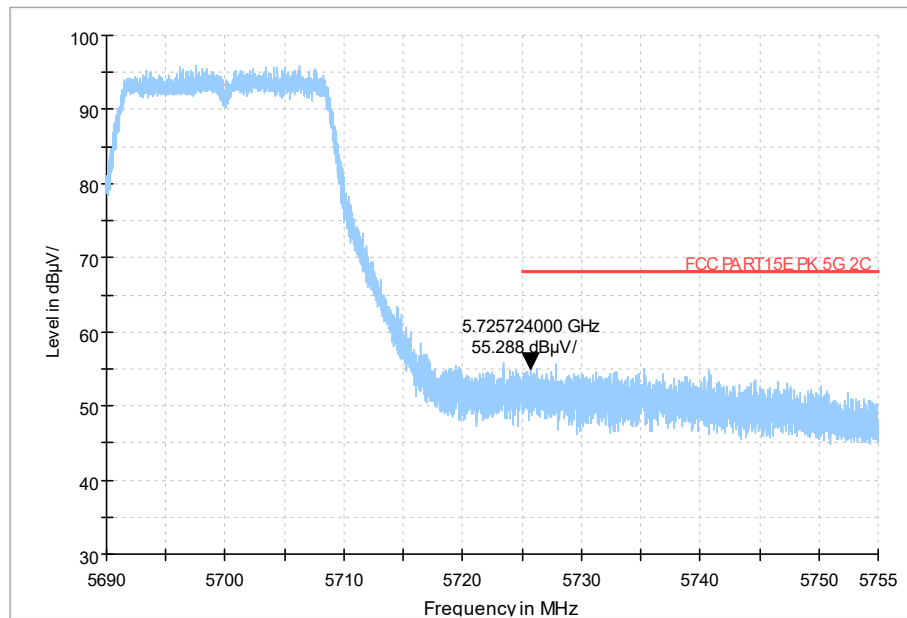


Fig.250 Frequency Band Edge: 802.11n(20M),CH140

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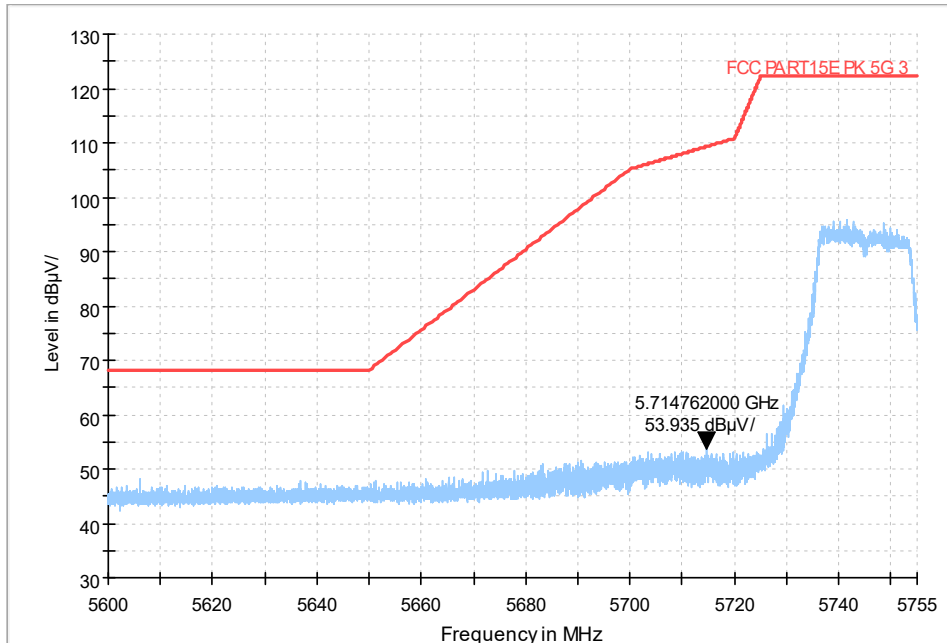


Fig.251 Frequency Band Edge:802.11n(20M) ,CH149

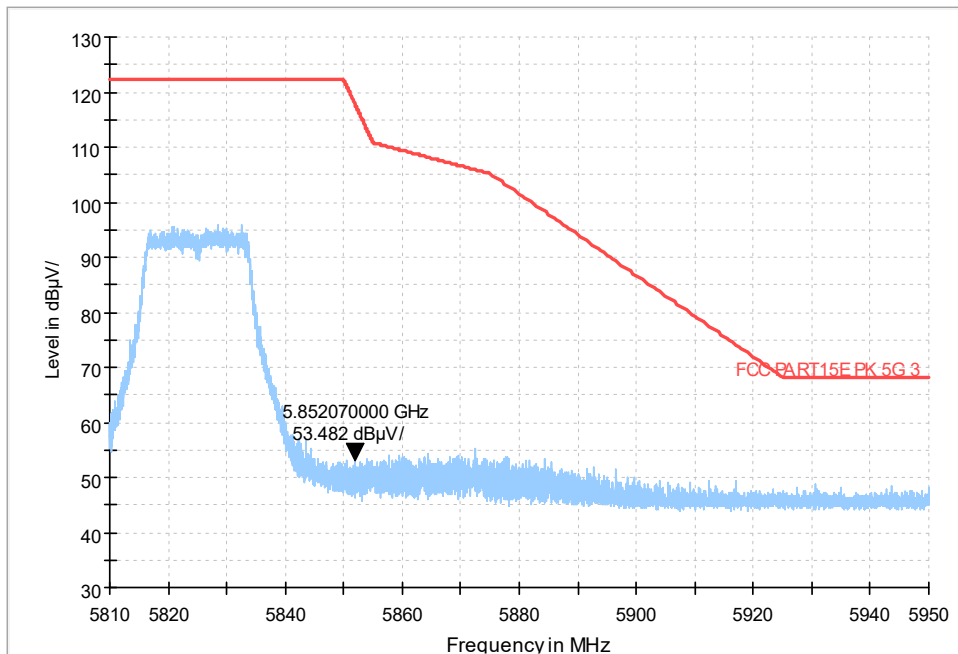


Fig.252 Frequency Band Edge:802.11n(20M) ,CH165

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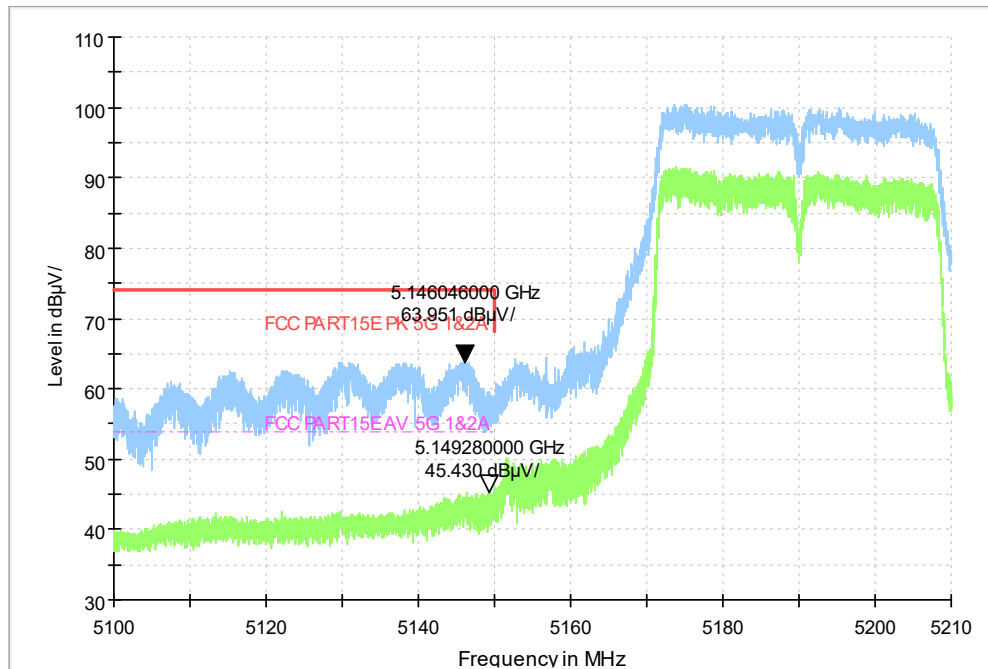


Fig.253 Frequency Band Edge: 802.11n(40M),CH38

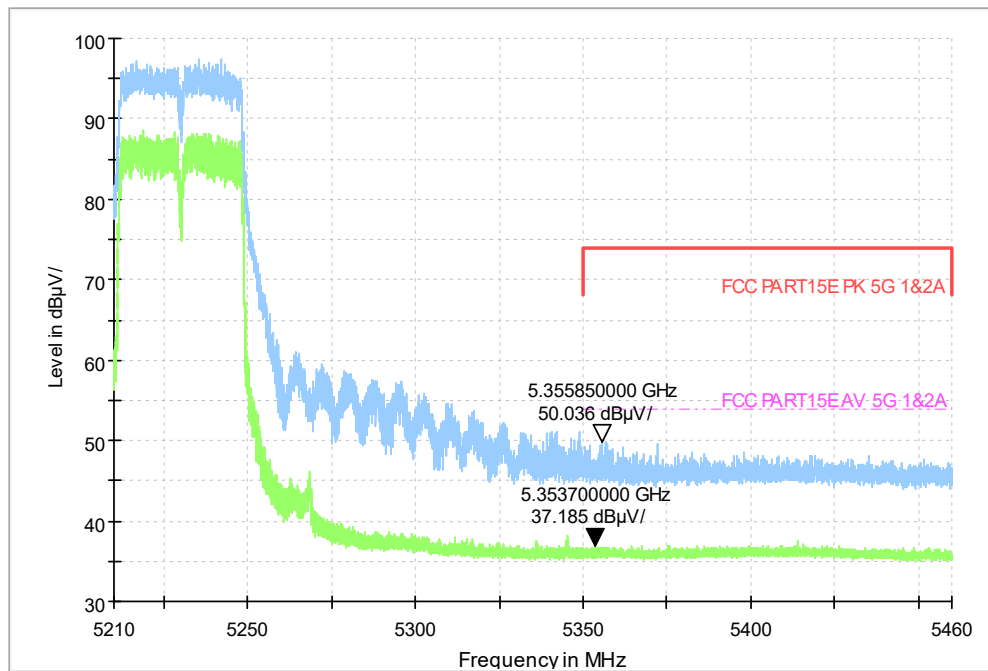


Fig.254 Frequency Band Edge: 802.11n(40M),CH46

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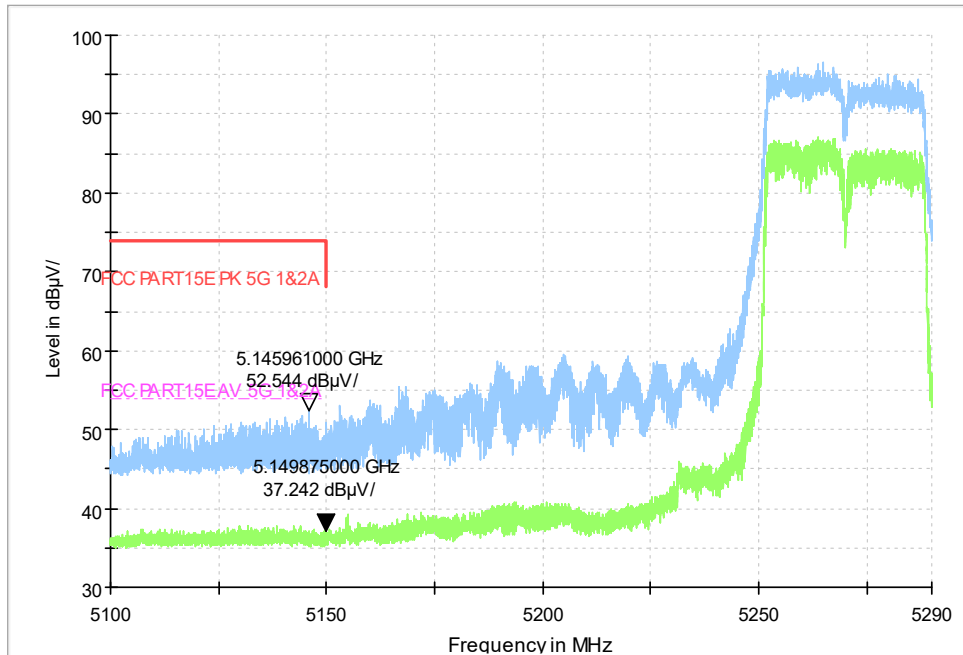


Fig.255 Frequency Band Edge: 802.11n(40M),CH54

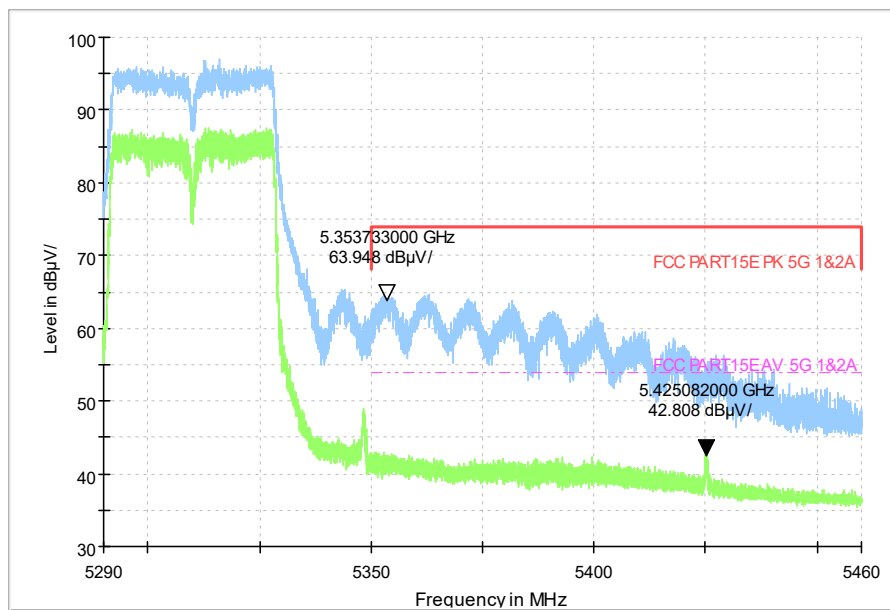


Fig.256 Frequency Band Edge: 802.11n(40M),CH62

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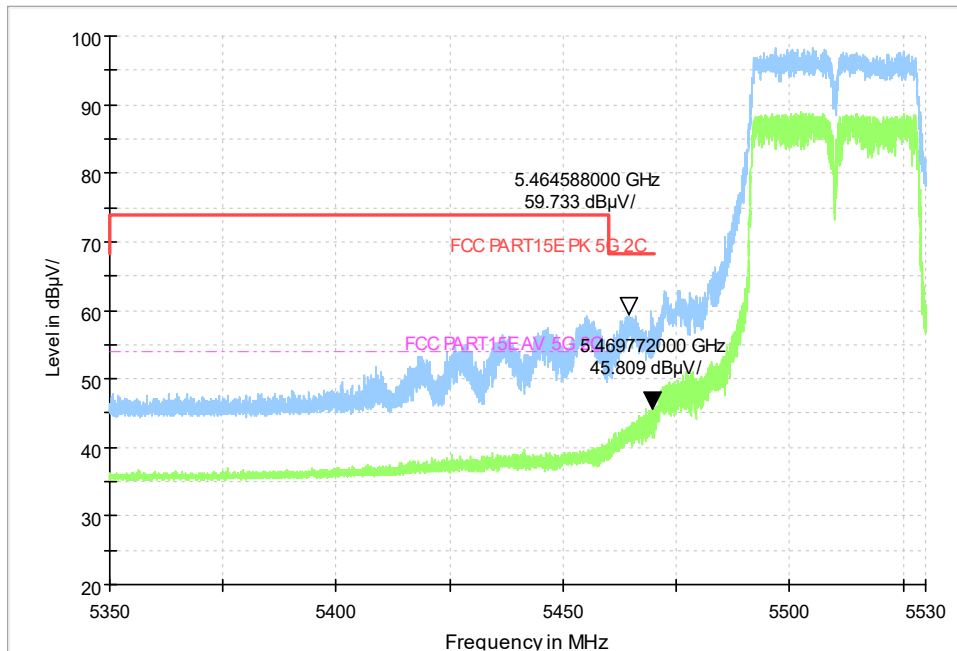


Fig.257 Frequency Band Edge: 802.11n(40M),CH102

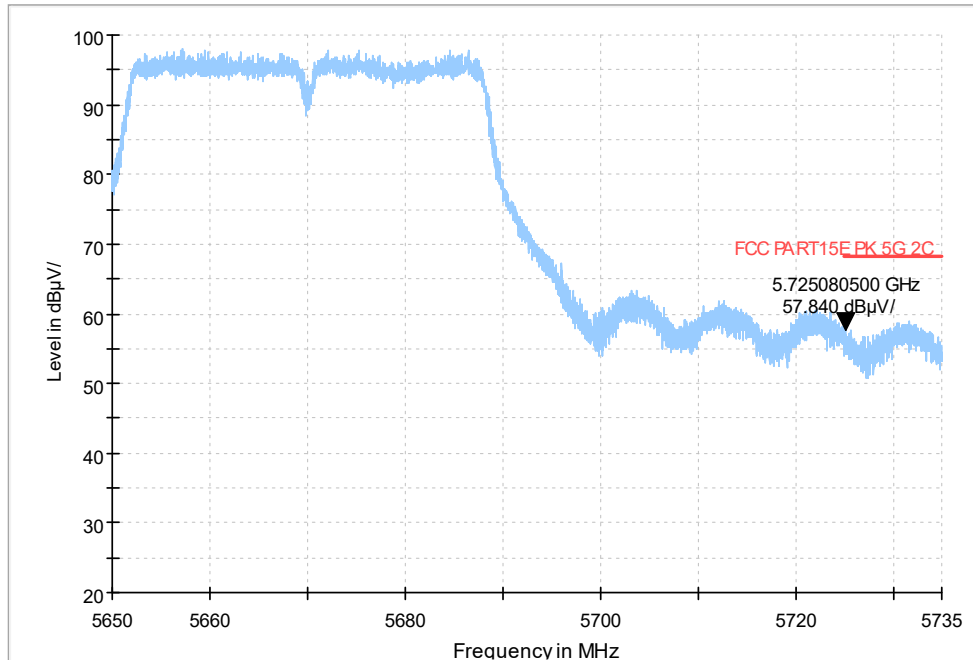


Fig.258 Frequency Band Edge: 802.11n(40M),CH134

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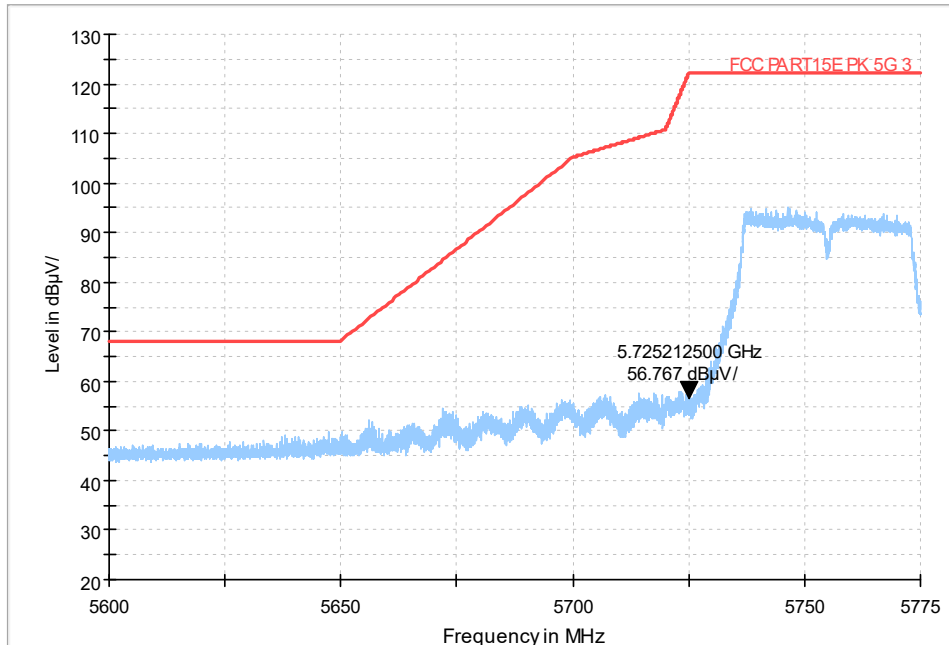


Fig.259 Frequency Band Edge: 802.11n(40M),CH151

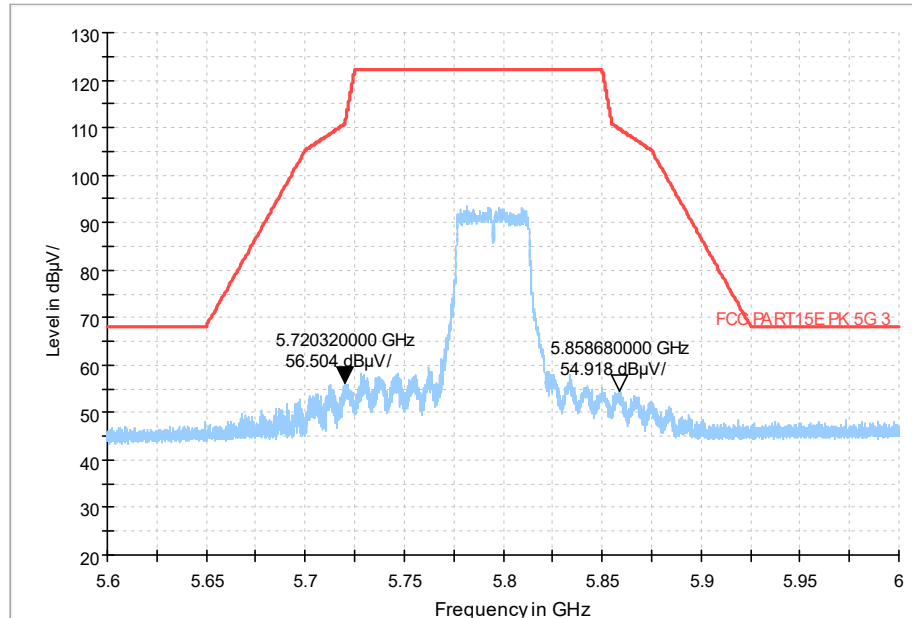


Fig.260 Frequency Band Edge: 802.11n(40M),CH159

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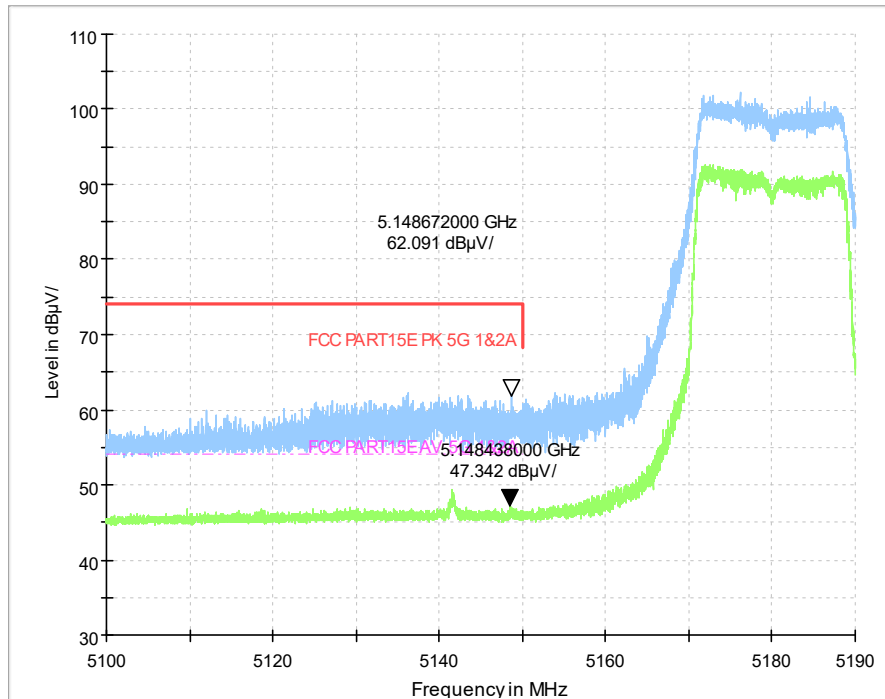
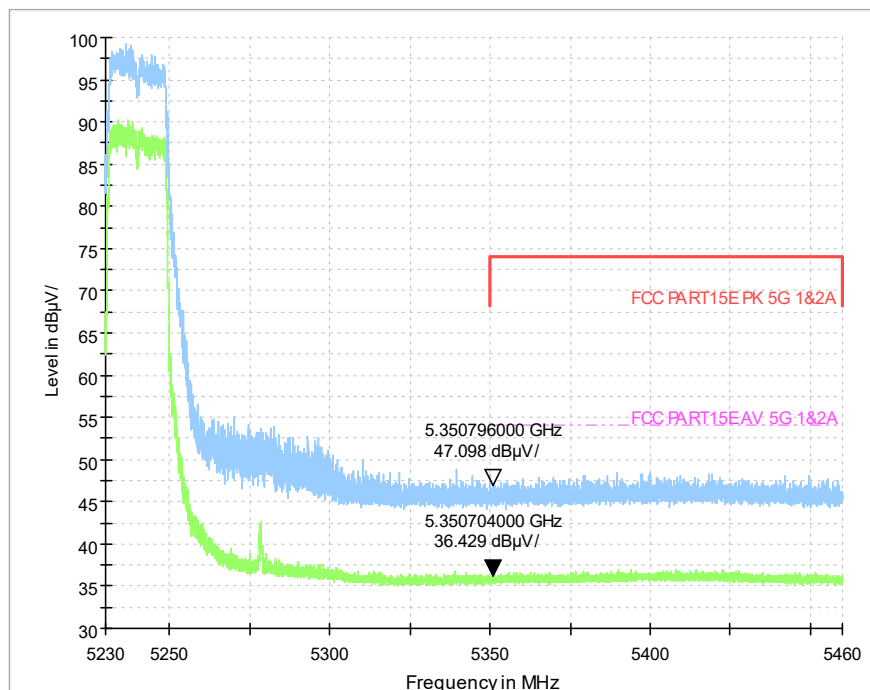


Fig.261 Frequency Band Edge: 802.11ac(20M),CH36



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Fig.262 Frequency Band Edge: 802.11ac(20M),CH48

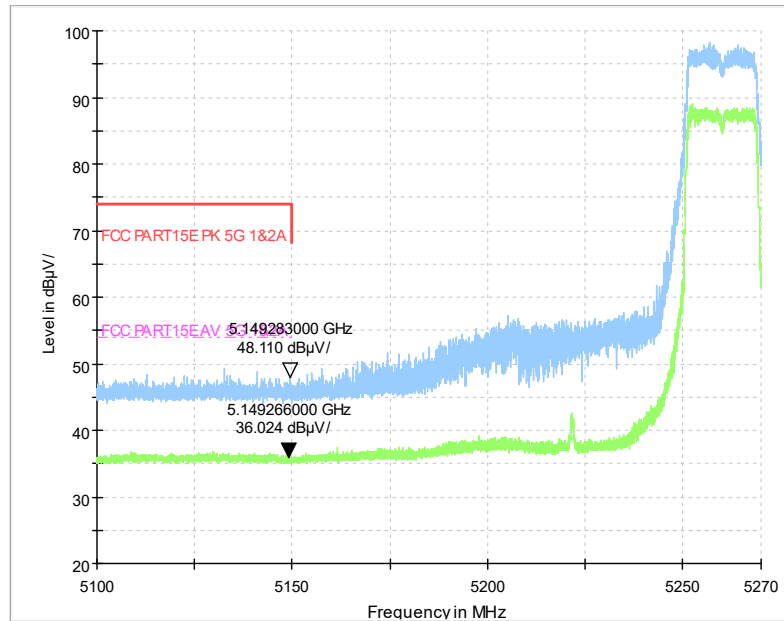


Fig.263 Frequency Band Edge: 802.11ac(20M),CH52

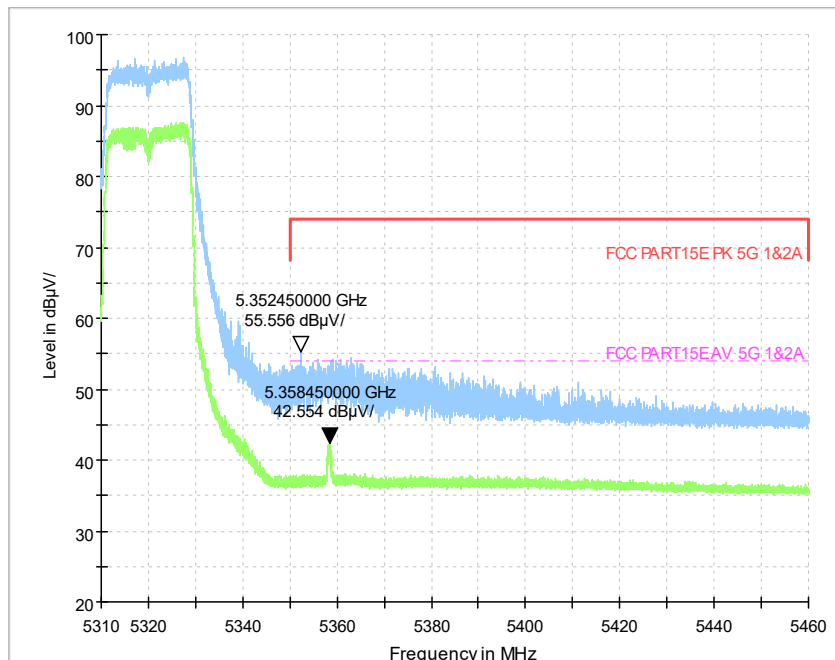


Fig.264 Frequency Band Edge: 802.11ac(20M),CH64

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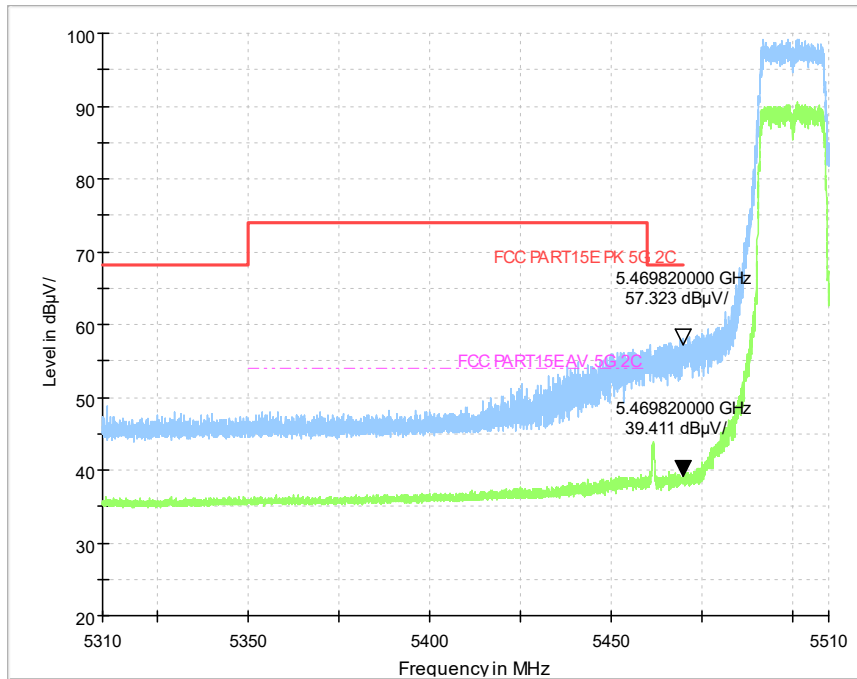


Fig.265 Frequency Band Edge: 802.11ac(20M),CH100

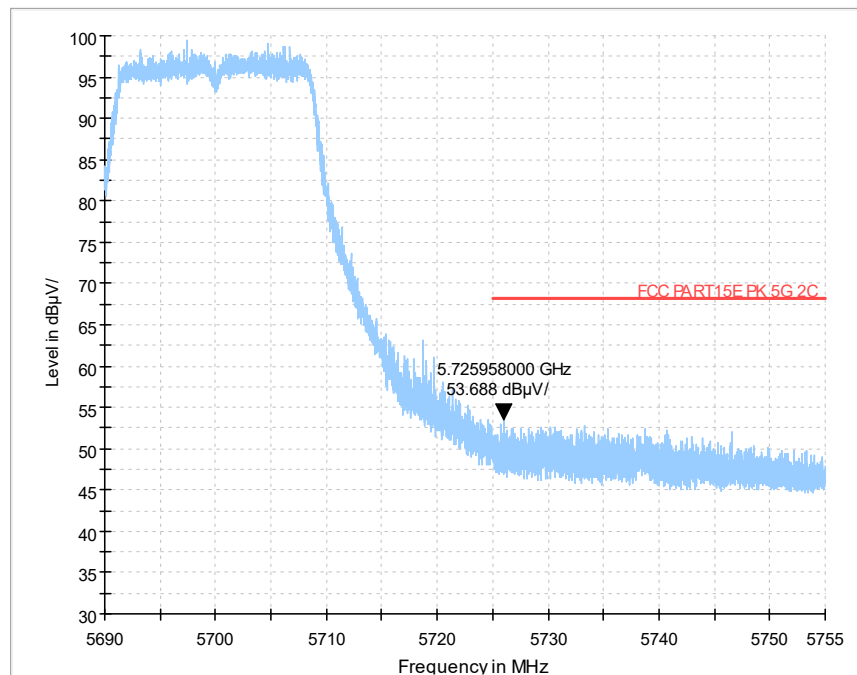


Fig.266 Frequency Band Edge: 802.11ac(20M),CH140

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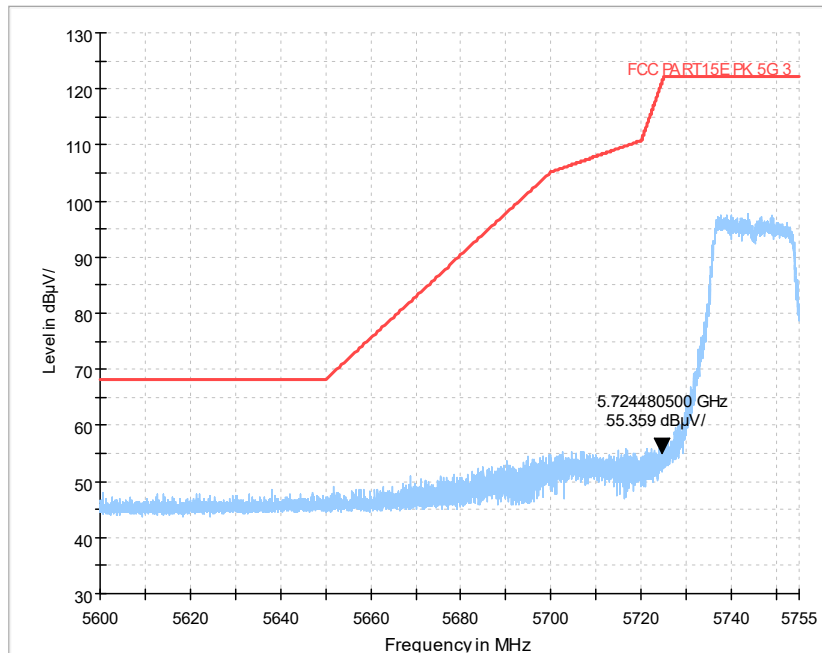
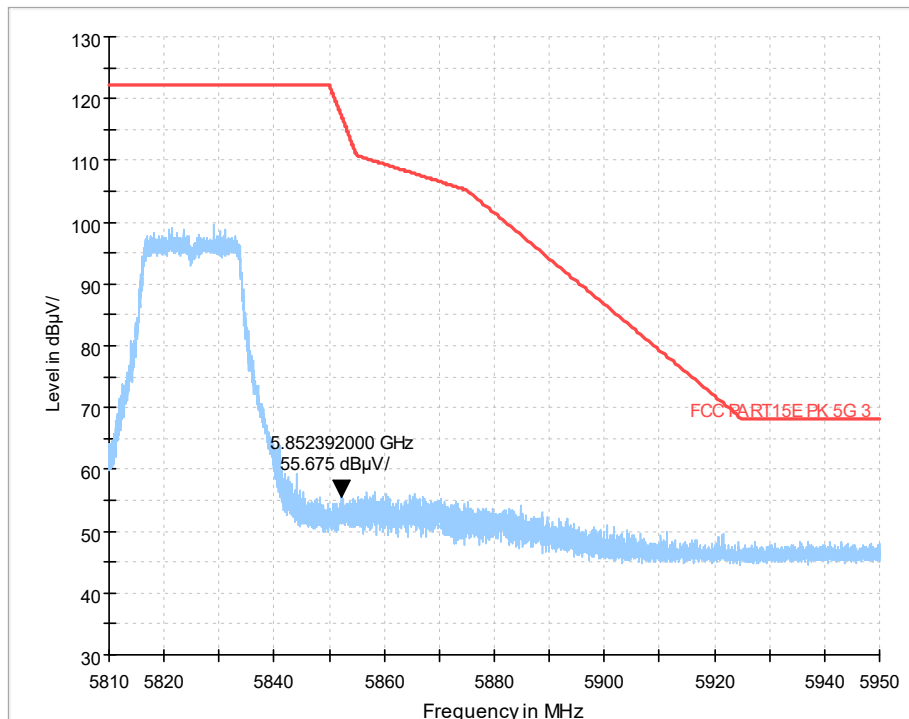


Fig.267 Frequency Band Edge: 802.11ac(20M),CH149



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Fig.268 Frequency Band Edge: 802.11ac(20M),CH165

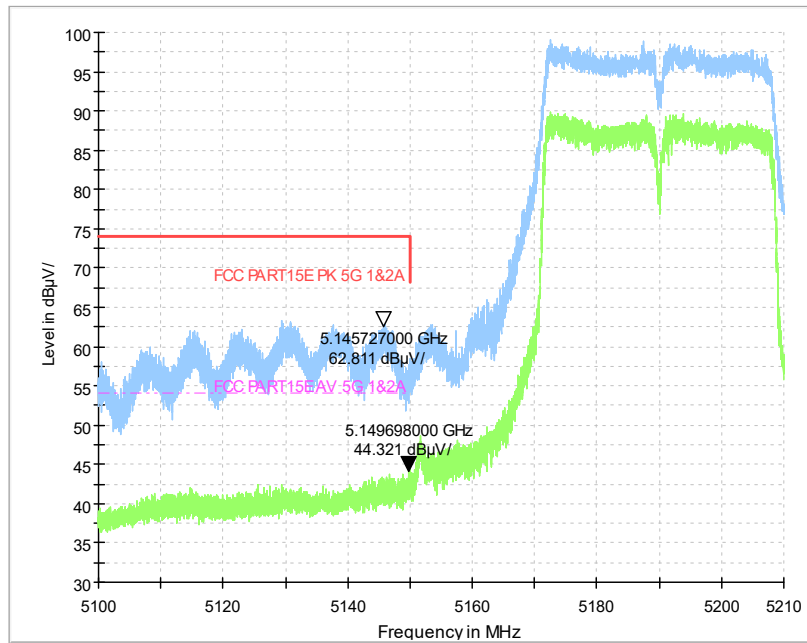


Fig.269 Frequency Band Edge: 802.11ac(40M),CH38

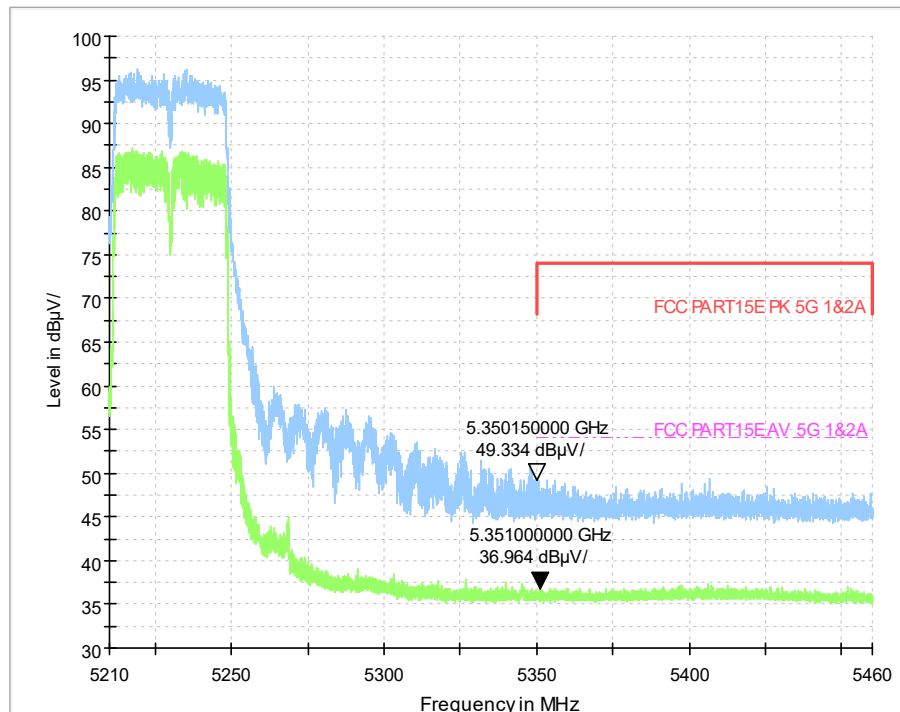


Fig.270 Frequency Band Edge: 802.11ac(40M),CH46

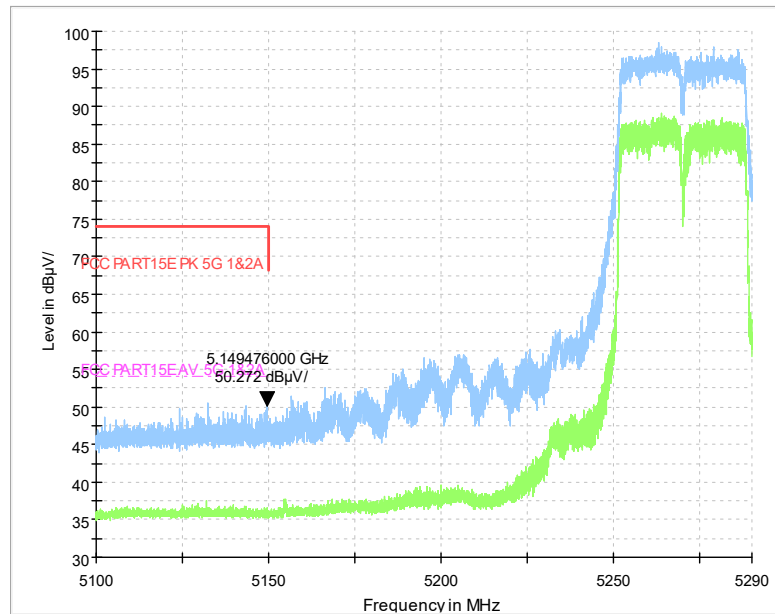


Fig.271 Frequency Band Edge: 802.11ac(40M),CH54

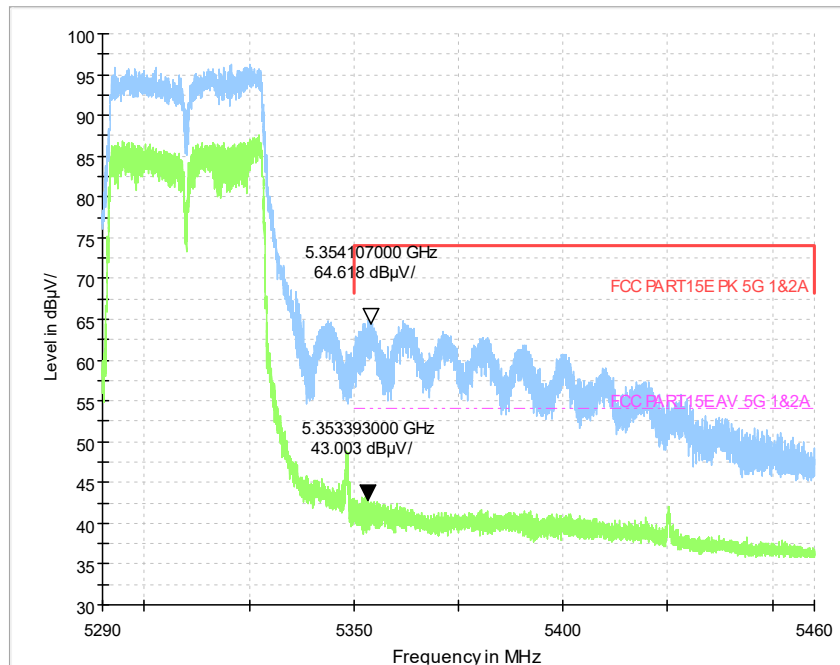


Fig.272 Frequency Band Edge: 802.11ac(40M),CH62

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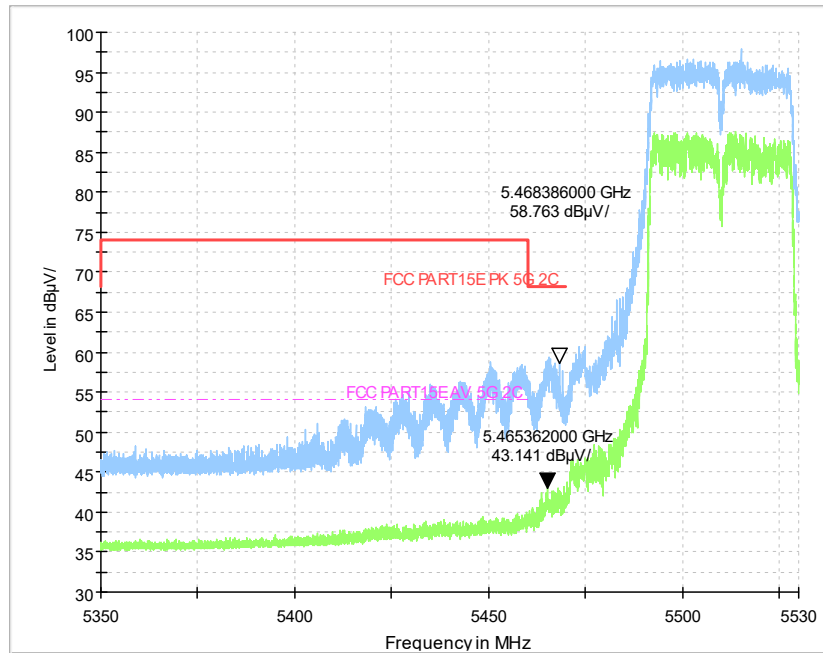


Fig.273 Frequency Band Edge: 802.11ac(40M),CH102

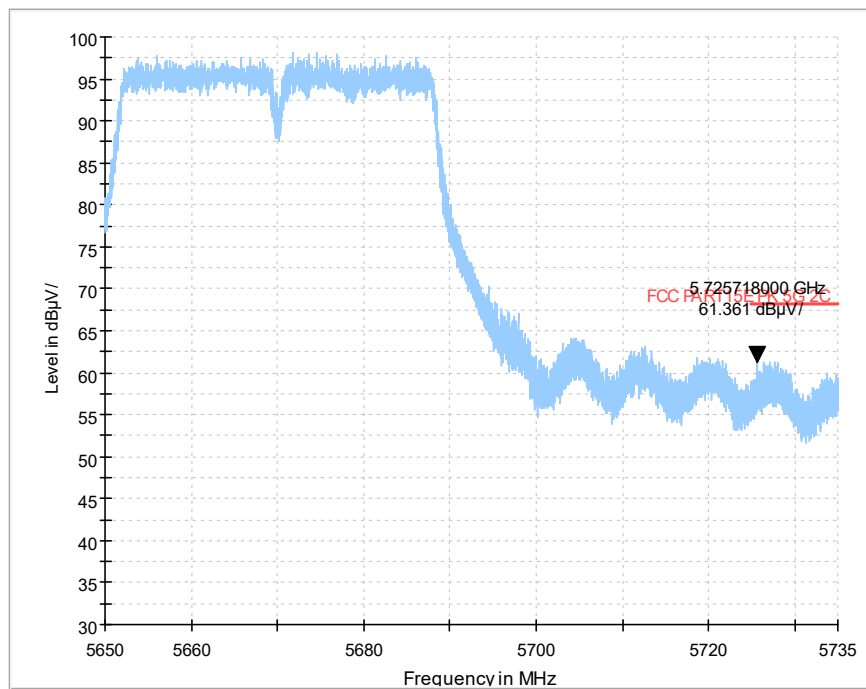


Fig.274 Frequency Band Edge: 802.11ac(40M),CH124

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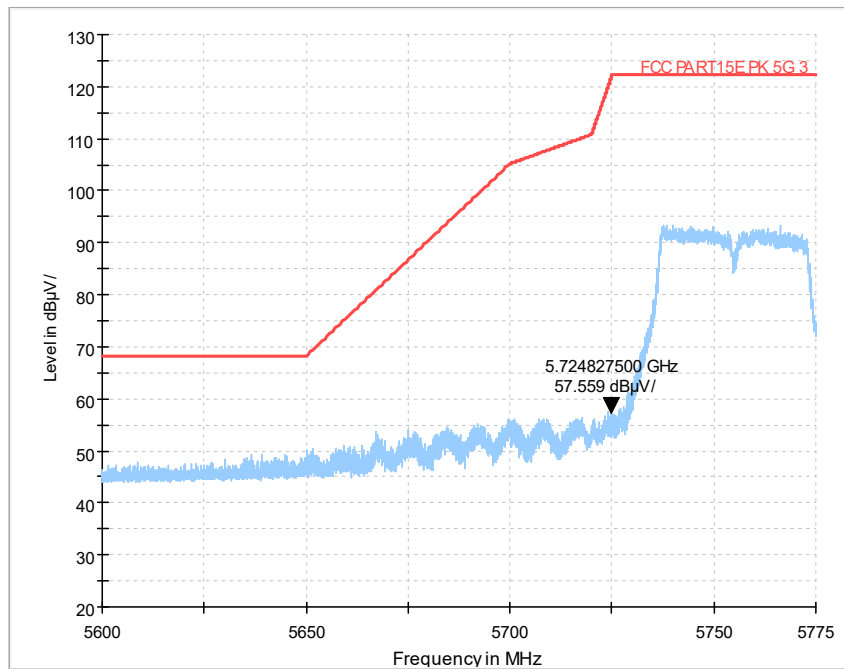


Fig.275 Frequency Band Edge: 802.11ac(40M),CH151

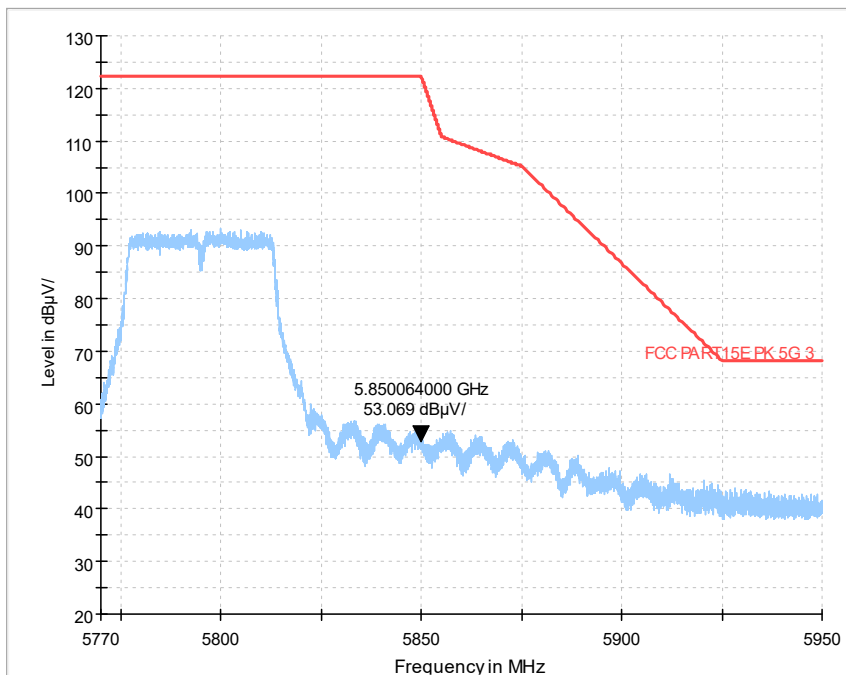


Fig.276 Frequency Band Edge: 802.11ac(40M),CH159

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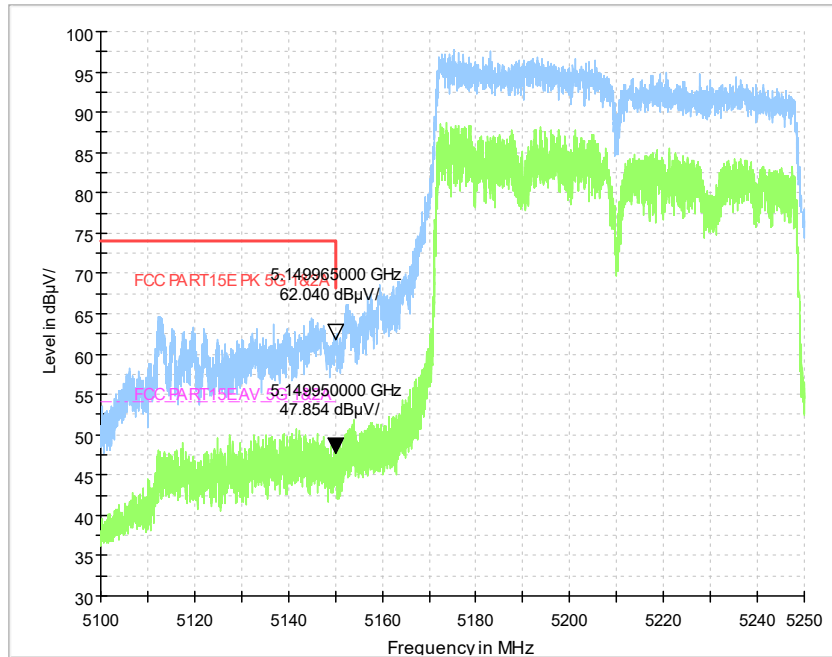


Fig.277 Frequency Band Edge: 802.11ac(80M),CH42

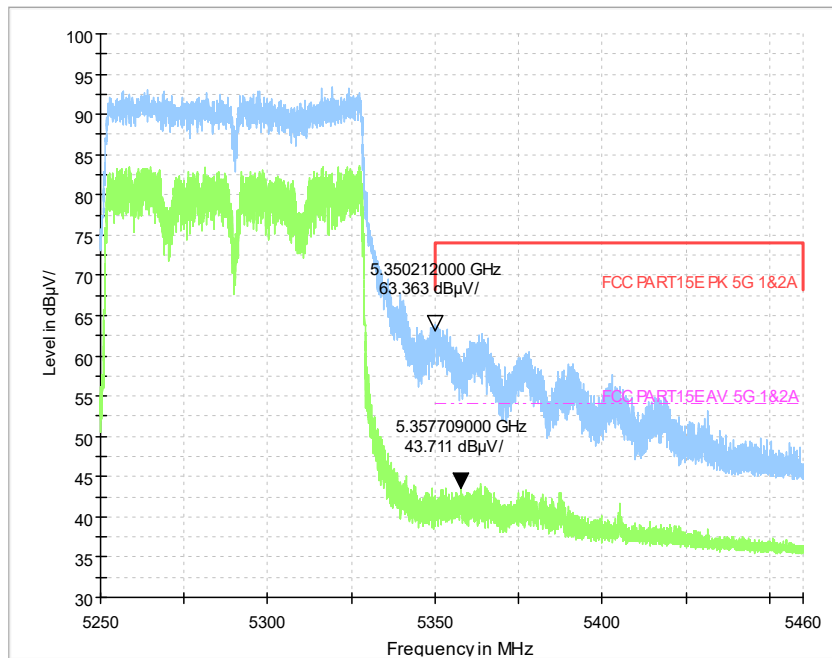


Fig.278 Frequency Band Edge: 802.11ac(80M),CH58

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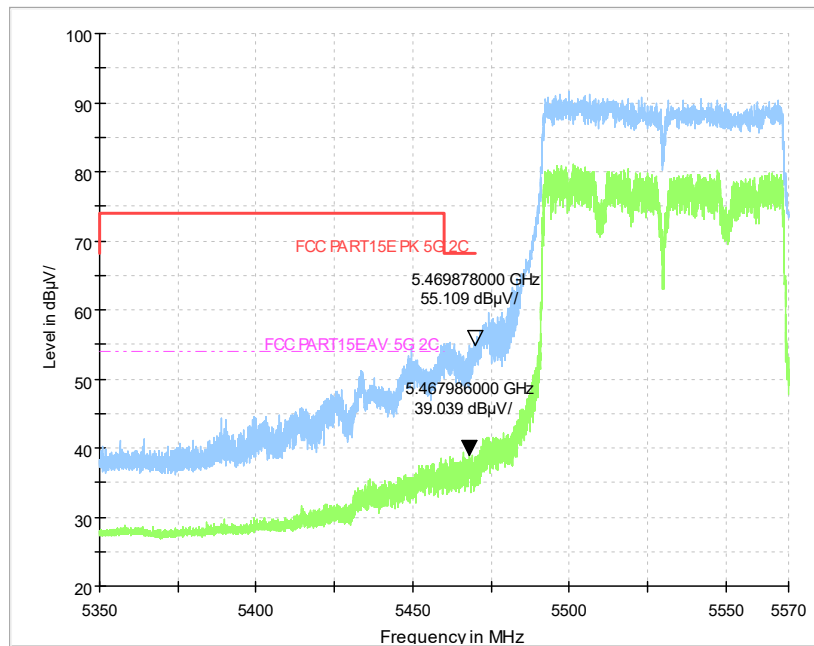


Fig.279 Frequency Band Edge: 802.11ac(80M),CH106

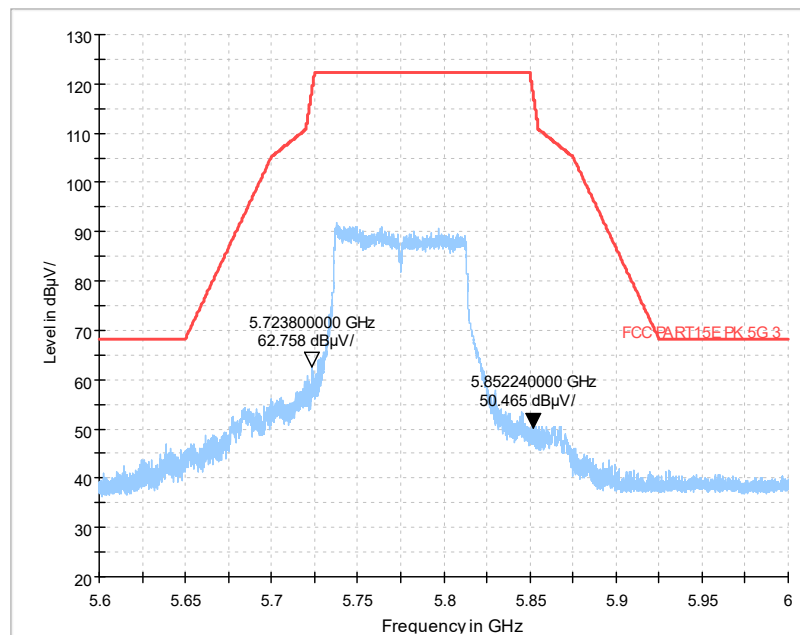


Fig.280 Frequency Band Edge: 802.11ac(80M),CH155

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### 5.6 Radiated Spurious Emissions

<b>Specifications:</b>	FCC Part 15. 407 (b)
<b>DUT Serial Number:</b>	865171050693269
<b>Test conditions:</b>	Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa
<b>Test Results:</b>	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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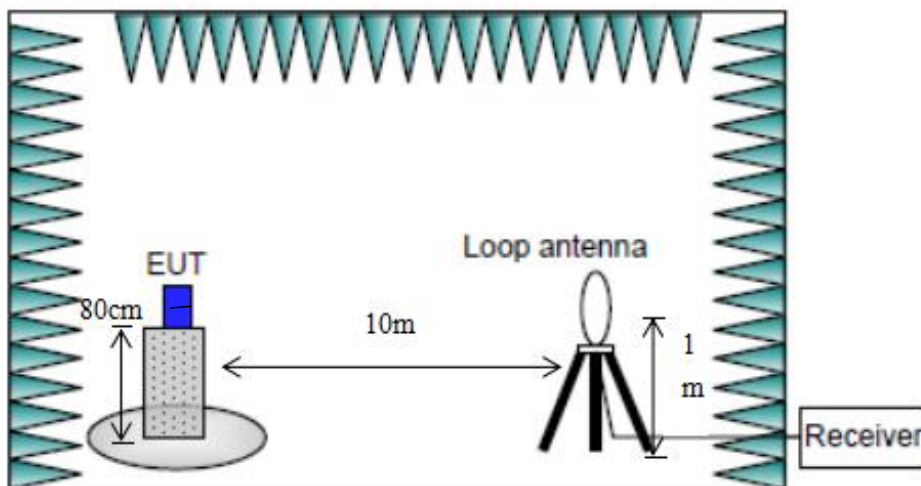
Frequency of emission (MHz)	Field strength (uV/m)	Measurement distance (meters)
0.009-0.49	2400/F(kHz)	300
0.49-1.705	24000/F(kHz)	30
1.705-30	30	30

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:

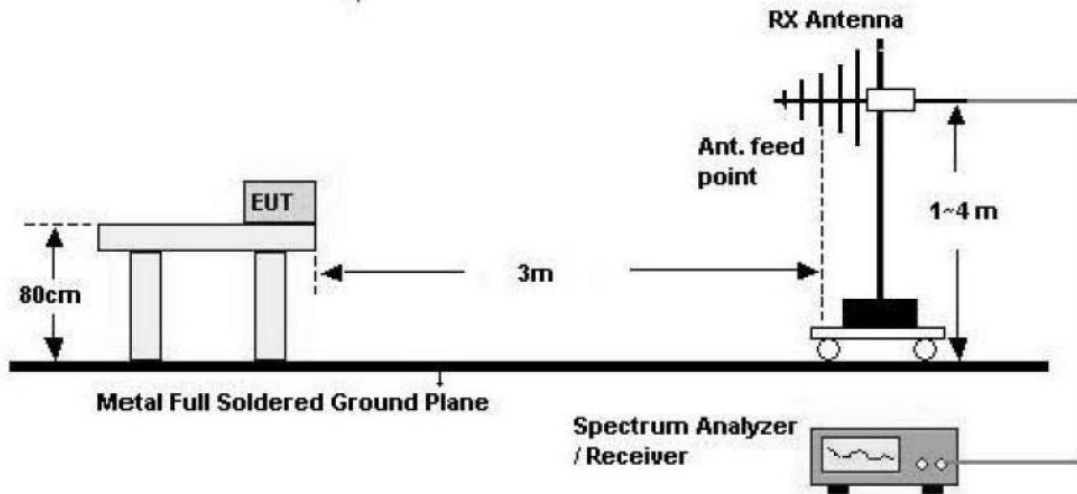


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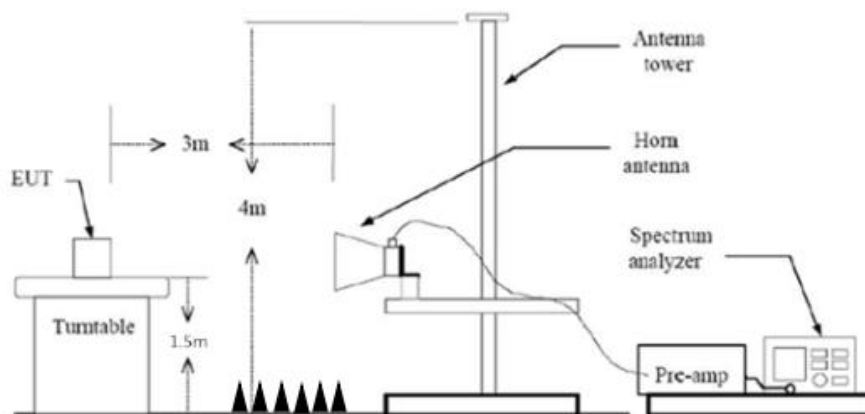
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30MHz-1GHz:



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<sub>pi</sub> 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:

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

$$\text{Result} = \text{PMea} + AR_{pi}$$

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

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	102	6GHz-18GHz	Fig.292	Pass
		1GHz-6GHz	Fig.293	
	118	6GHz-18GHz	Fig.294	Pass
		1GHz-6GHz	Fig.295	
	134	6GHz-18GHz	Fig.296	Pass
		1GHz-6GHz	Fig.297	
	151	6GHz-18GHz	Fig.298	Pass
		1GHz-6GHz	Fig.299	
159	6GHz-18GHz	Fig.300	Pass	
	1GHz-6GHz	Fig.301		
802.11ac(20M)	36	6GHz-18GHz	Fig.302	Pass
		1GHz-6GHz	Fig.303	
	40	6GHz-18GHz	Fig.304	Pass
		1GHz-6GHz	Fig.305	
	48	6GHz-18GHz	Fig.306	Pass
		1GHz-6GHz	Fig.307	
	52	6GHz-18GHz	Fig.308	Pass
		1GHz-6GHz	Fig.309	
	60	6GHz-18GHz	Fig.310	Pass
		1GHz-6GHz	Fig.311	
	64	6GHz-18GHz	Fig.312	Pass
		1GHz-6GHz	Fig.313	
	100	6GHz-18GHz	Fig.314	Pass
		1GHz-6GHz	Fig.315	
	116	6GHz-18GHz	Fig.316	Pass
		1GHz-6GHz	Fig.317	
	140	6GHz-18GHz	Fig.318	Pass
		1GHz-6GHz	Fig.319	
	149	6GHz-18GHz	Fig.320	Pass
		1GHz-6GHz	Fig.321	
	157	6GHz-18GHz	Fig.322	Pass
		1GHz-6GHz	Fig.323	
	165	6GHz-18GHz	Fig.324	Pass
		1GHz-6GHz	Fig.325	
802.11ac(40M)	38	6GHz-18GHz	Fig.326	Pass
		1GHz-6GHz	Fig.327	
	46	6GHz-18GHz	Fig.328	Pass
		1GHz-6GHz	Fig.329	
		6GHz-18GHz	Fig.330	Pass

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