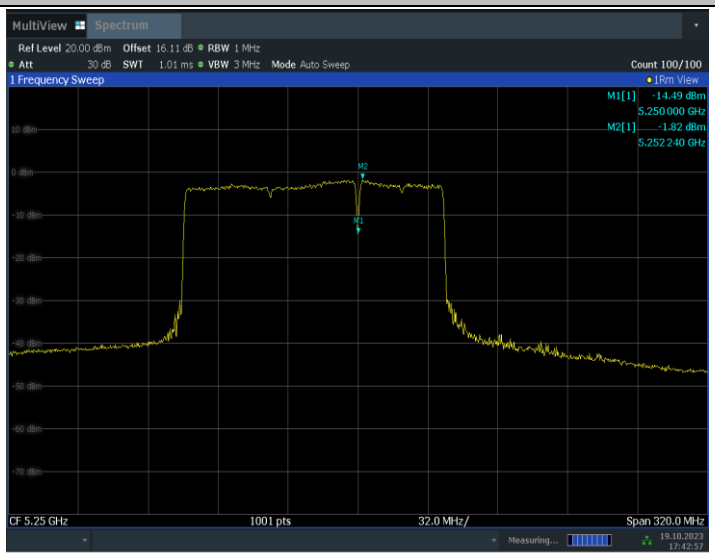
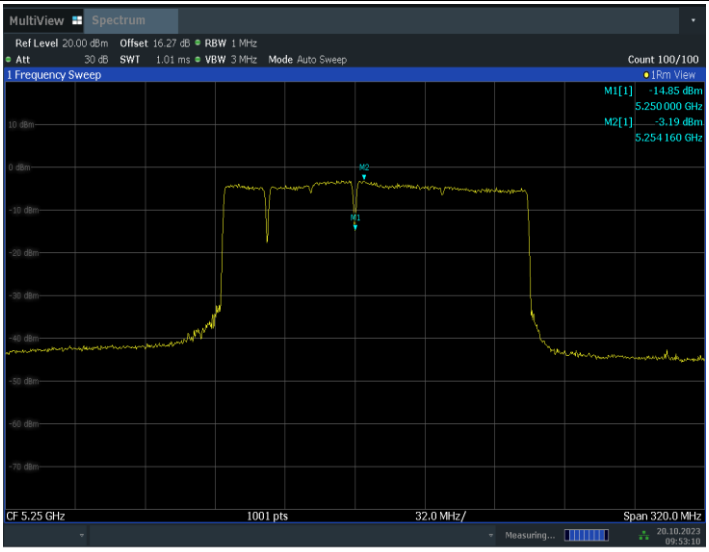
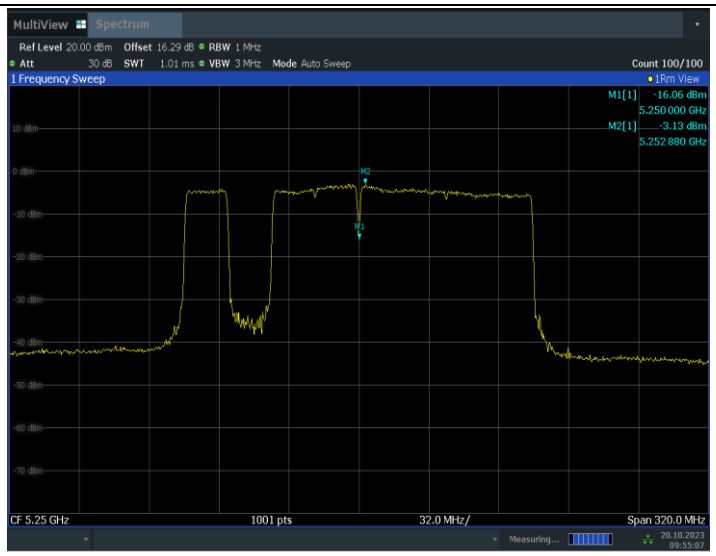
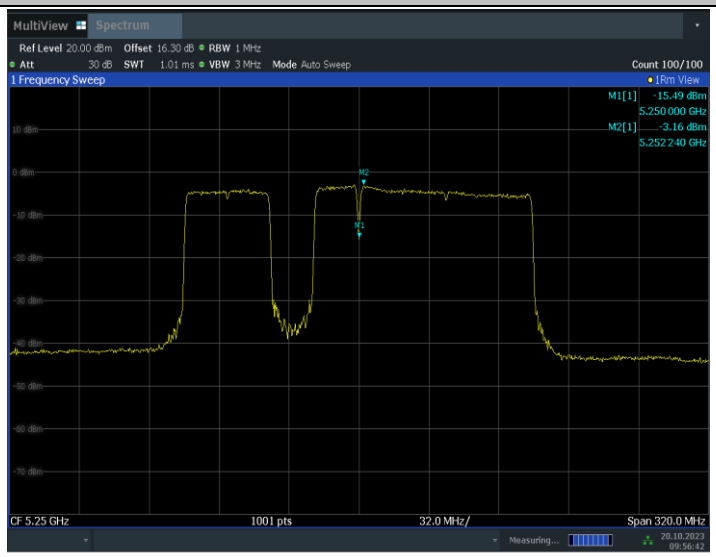
11BE160MIMO_Ant15_5250_UNII-2A_996+484_OFDMA_4
 17:42:58 19.10.2023
11BE160MIMO_Ant15_5250_UNII-2A_996+484+242_OFDMA_1
 09:53:10 20.10.2023
11BE160MIMO_Ant15_5250_UNII-2A_996+484+242_OFDMA_2

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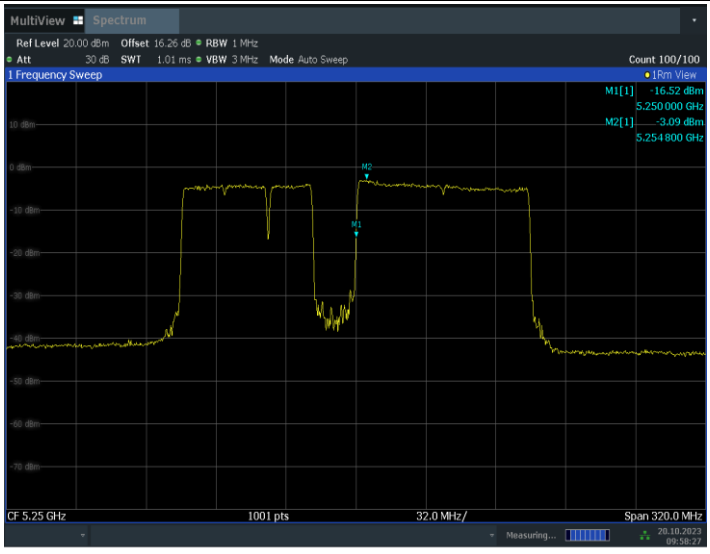
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11BE160MIMO_Ant15_5250_UNII-2A_996+484+242_OFDMA_3



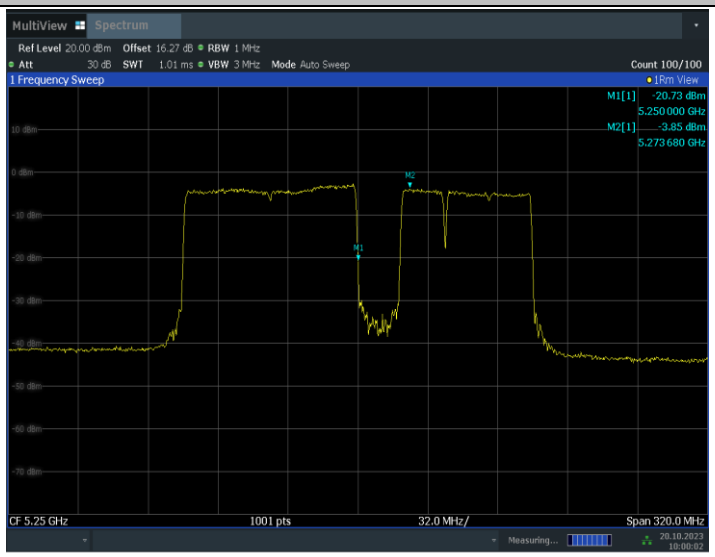
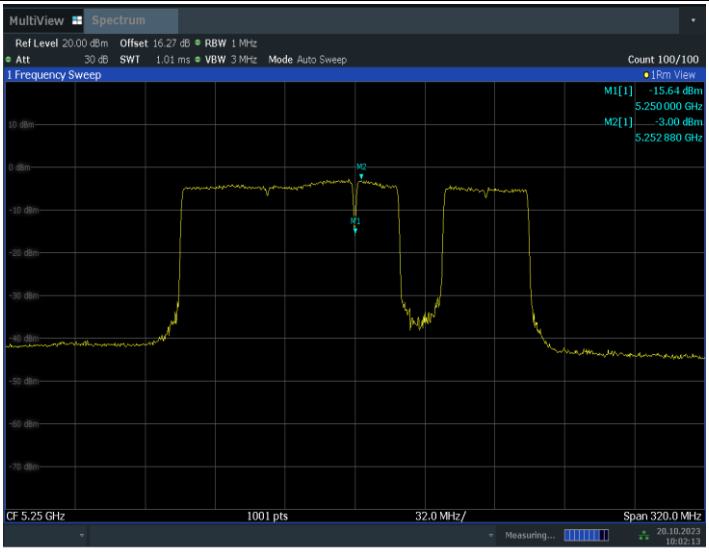
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11BE160MIMO_Ant15_5250_UNII-2A_996+484+242_OFDMA_4

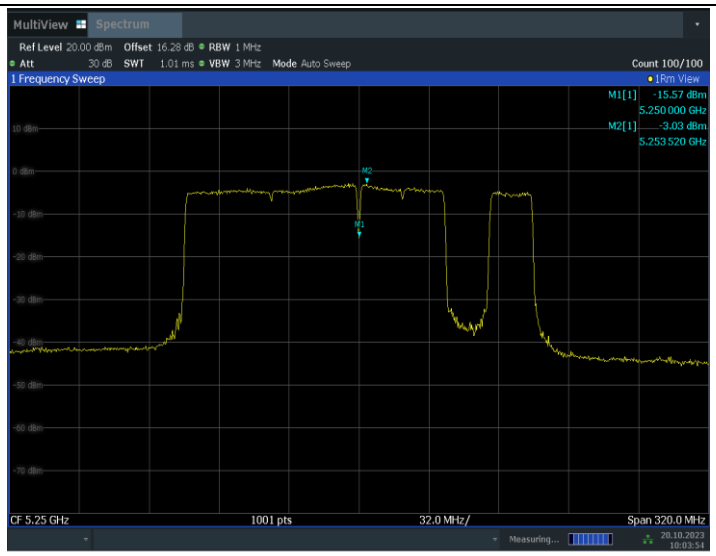


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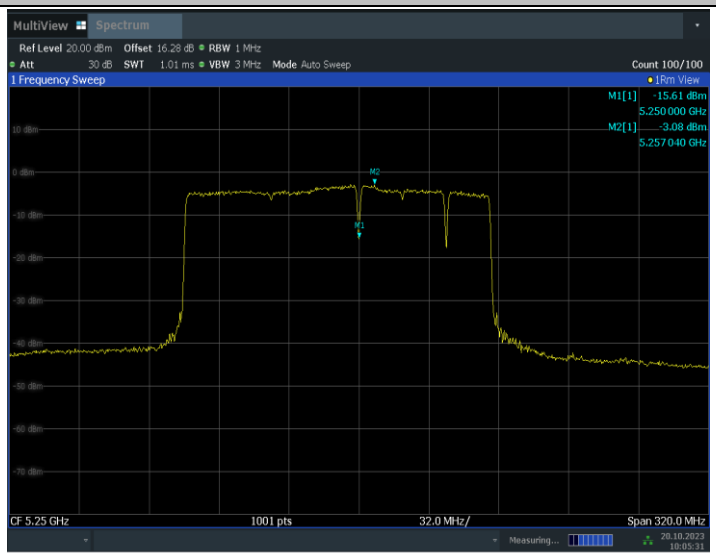
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 10:00:03 20.10.2023
11BE160MIMO_Ant15_5250_UNII-2A_996+484+242_OFDMA_6
 10:02:14 20.10.2023
11BE160MIMO_Ant15_5250_UNII-2A_996+484+242_OFDMA_7

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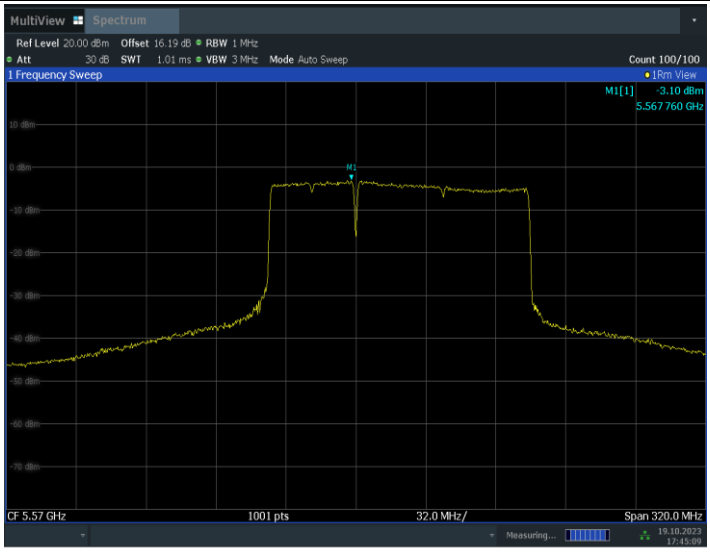
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11BE160MIMO_Ant15_5250_UNII-2A_996+484+242_OFDMA_8



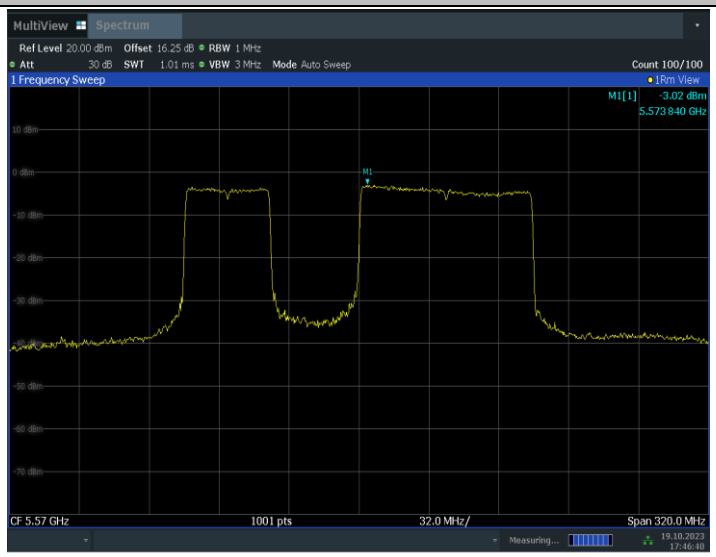
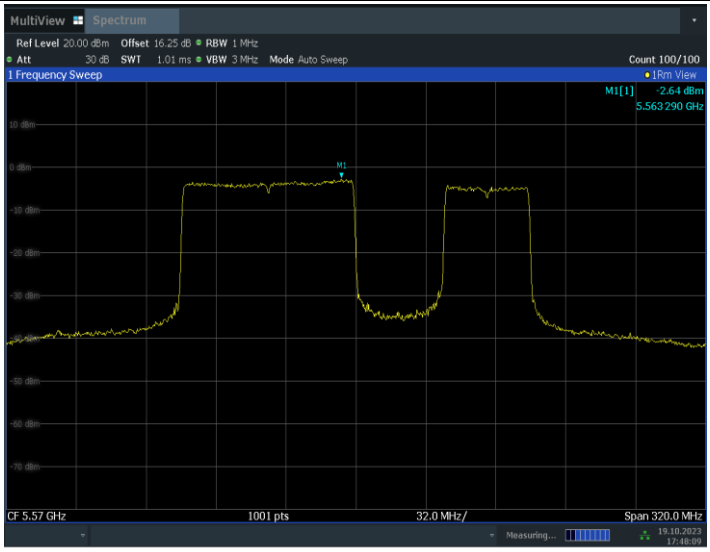
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11BE160MIMO_Ant9_5570_996+484_OFDMA_1

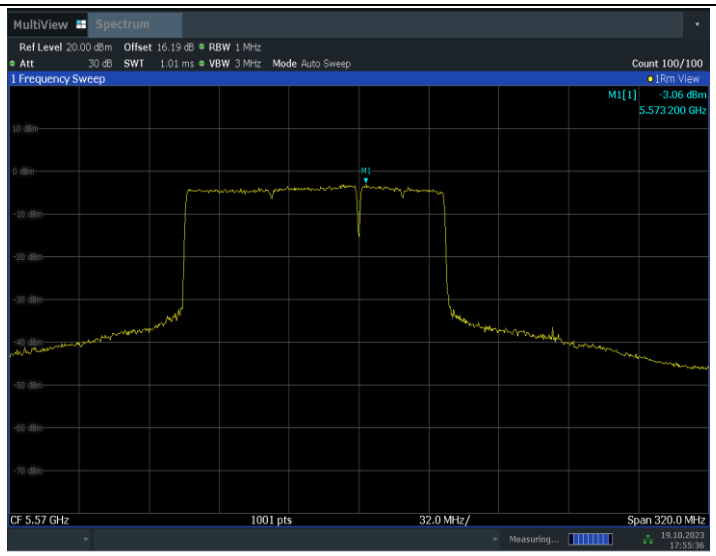


17:45:09 19.10.2023

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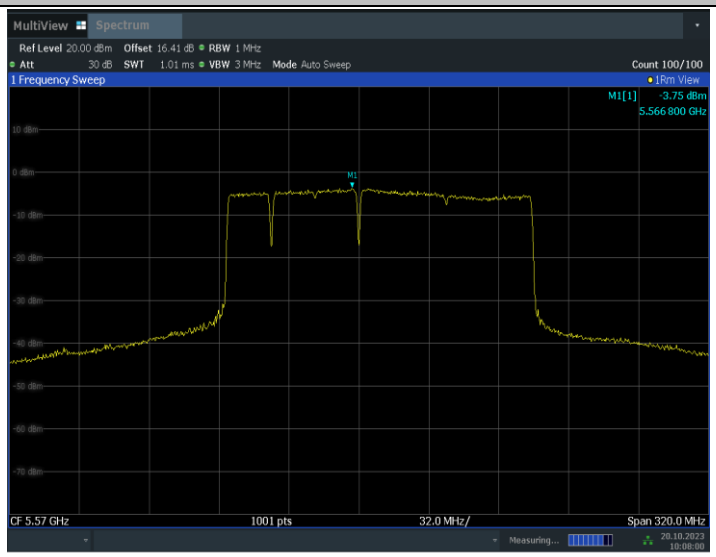
11BE160MIMO_Ant9_5570_996+484_OFDMA_2
 17:46:41 19.10.2023
11BE160MIMO_Ant9_5570_996+484_OFDMA_3
 17:48:10 19.10.2023
11BE160MIMO_Ant9_5570_996+484_OFDMA_4

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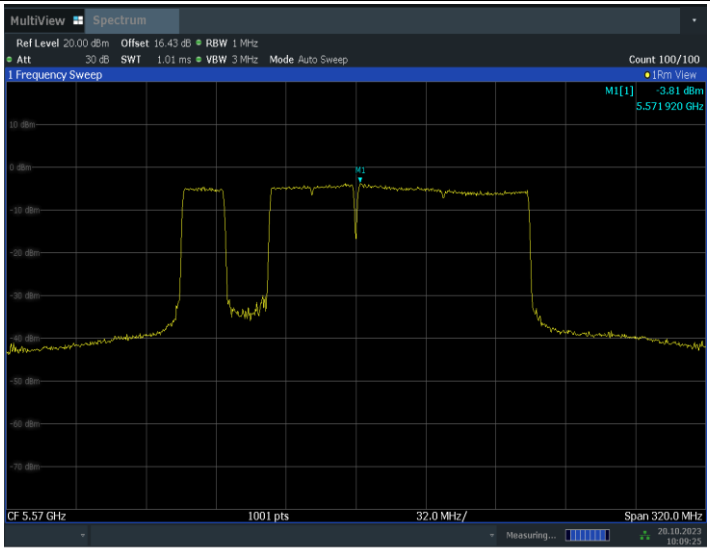
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11BE160MIMO_Ant9_5570_996+484+242_OFDMA_1



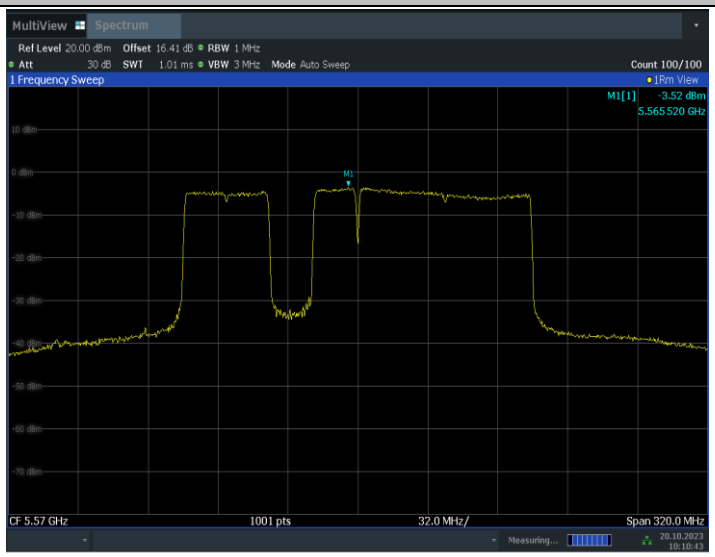
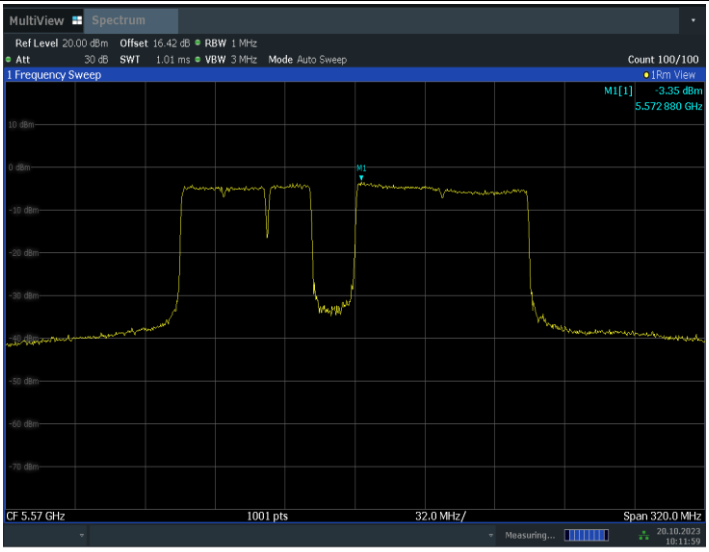
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11BE160MIMO_Ant9_5570_996+484+242_OFDMA_2

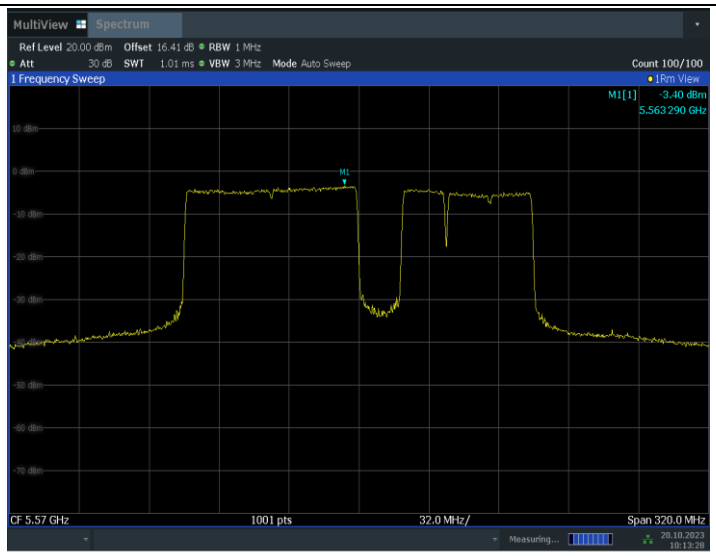


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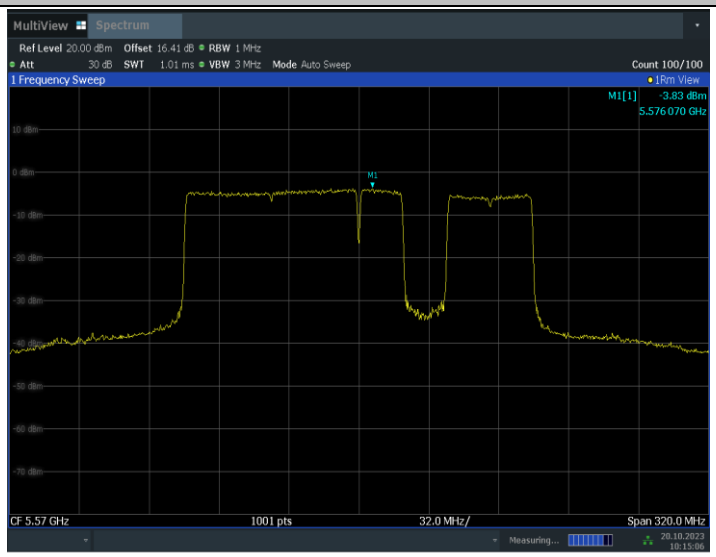
11BE160MIMO_Ant9_5570_996+484+242_OFDMA_3
 10:10:44 20.10.2023
11BE160MIMO_Ant9_5570_996+484+242_OFDMA_4
 10:12:00 20.10.2023
11BE160MIMO_Ant9_5570_996+484+242_OFDMA_5

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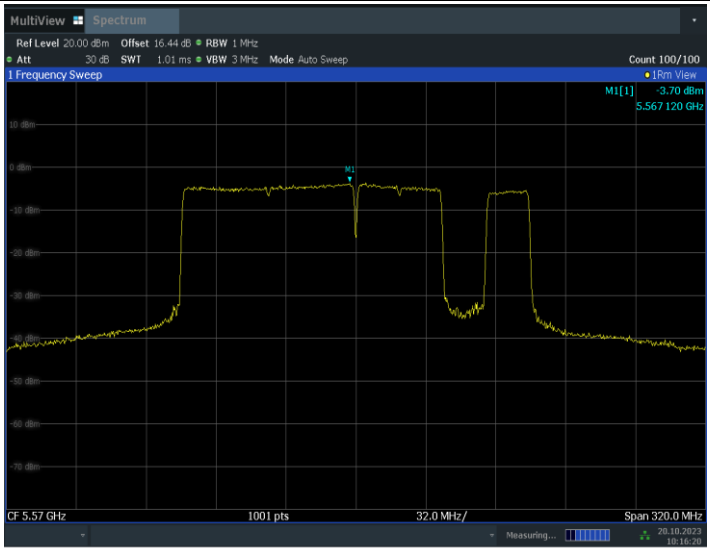
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11BE160MIMO_Ant9_5570_996+484+242_OFDMA_6



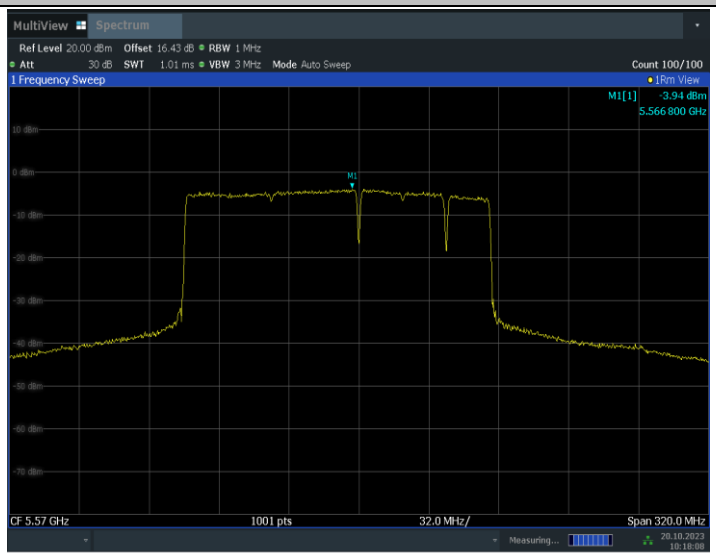
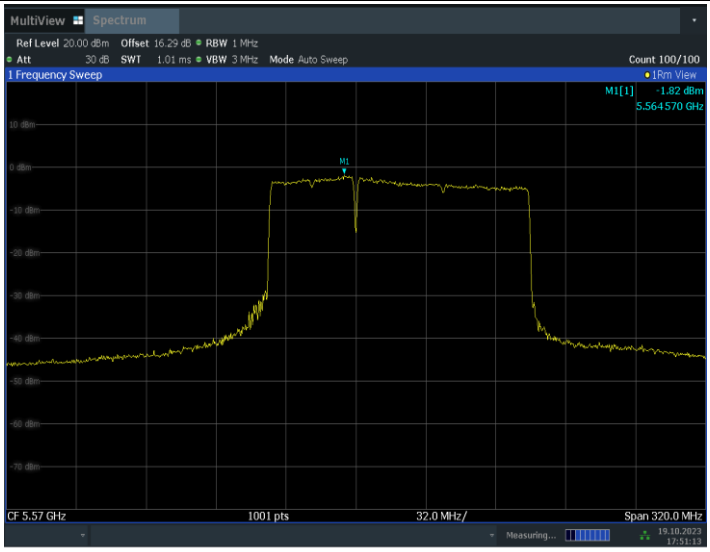
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11BE160MIMO_Ant9_5570_996+484+242_OFDMA_7

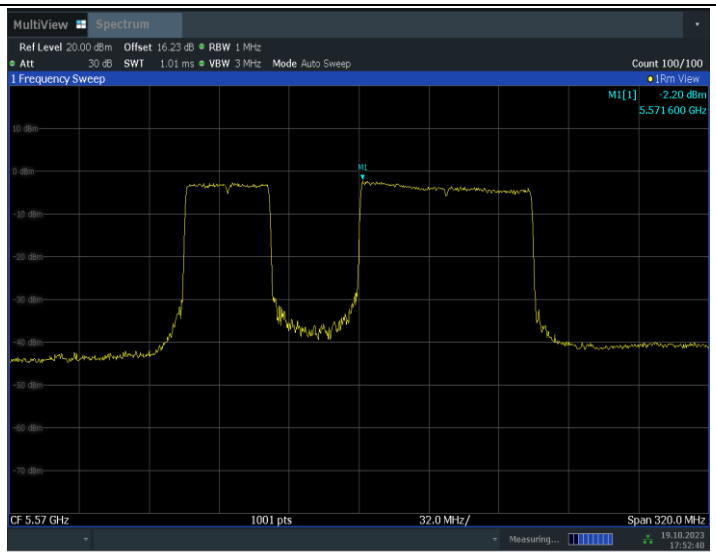


10:16:21 20.10.2023

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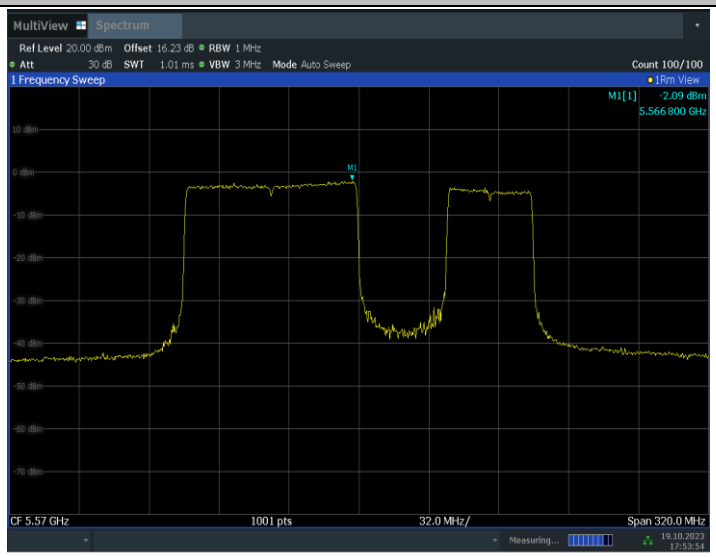
11BE160MIMO_Ant9_5570_996+484+242_OFDMA_8
 10:18:09 20.10.2023
11BE160MIMO_Ant15_5570_996+484_OFDMA_1
 17:51:13 19.10.2023
11BE160MIMO_Ant15_5570_996+484_OFDMA_2

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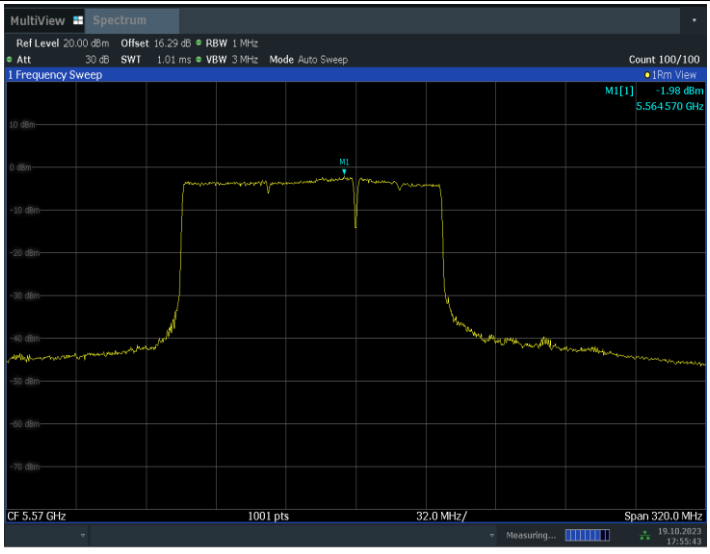
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11BE160MIMO_Ant15_5570_996+484_OFDMA_3



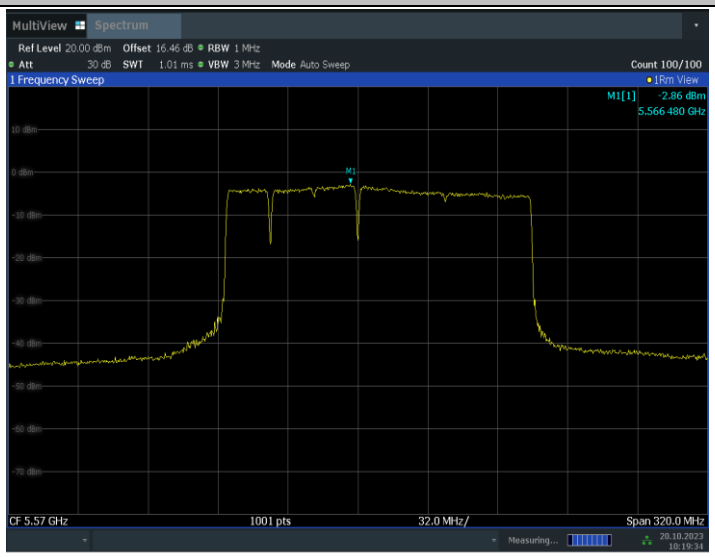
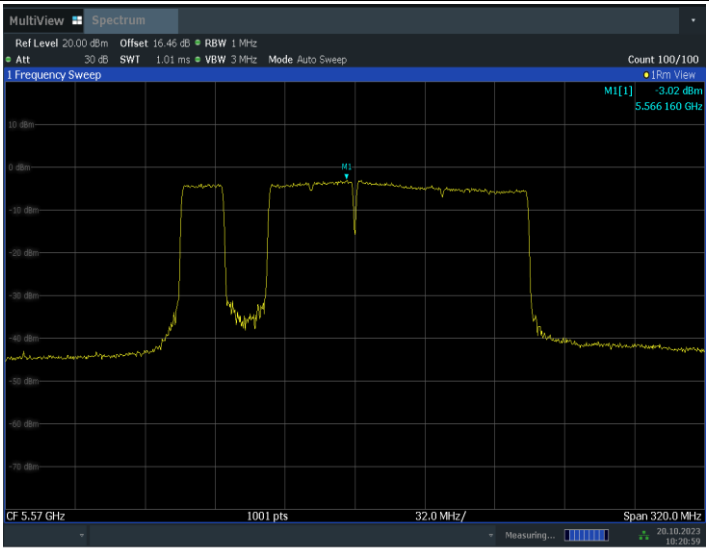
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11BE160MIMO_Ant15_5570_996+484_OFDMA_4

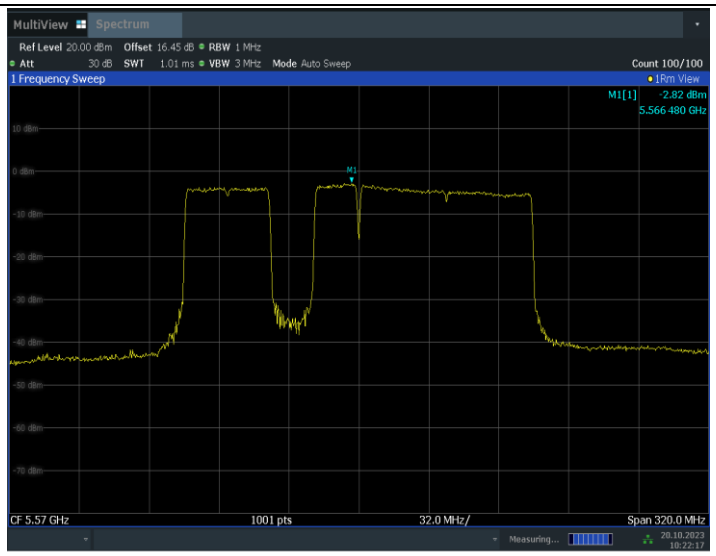


17:55:43 19.10.2023

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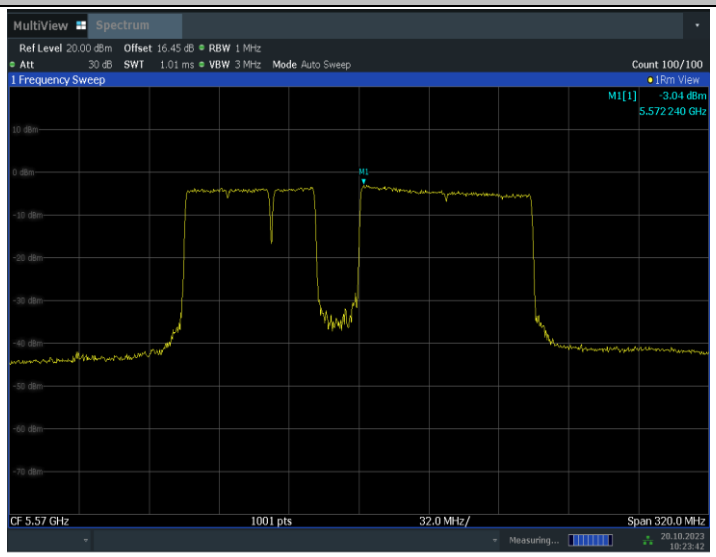
11BE160MIMO_Ant15_5570_996+484+242_OFDMA_1
 10:19:34 20.10.2023
11BE160MIMO_Ant15_5570_996+484+242_OFDMA_2
 10:20:59 20.10.2023
11BE160MIMO_Ant15_5570_996+484+242_OFDMA_3

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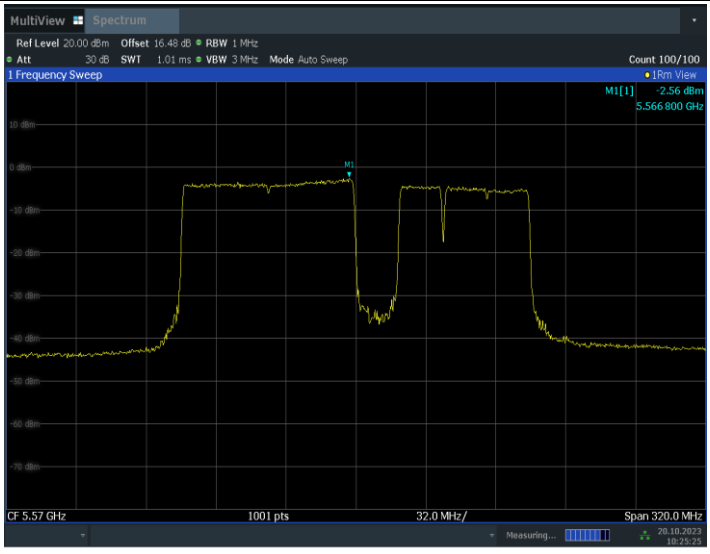
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11BE160MIMO_Ant15_5570_996+484+242_OFDMA_4



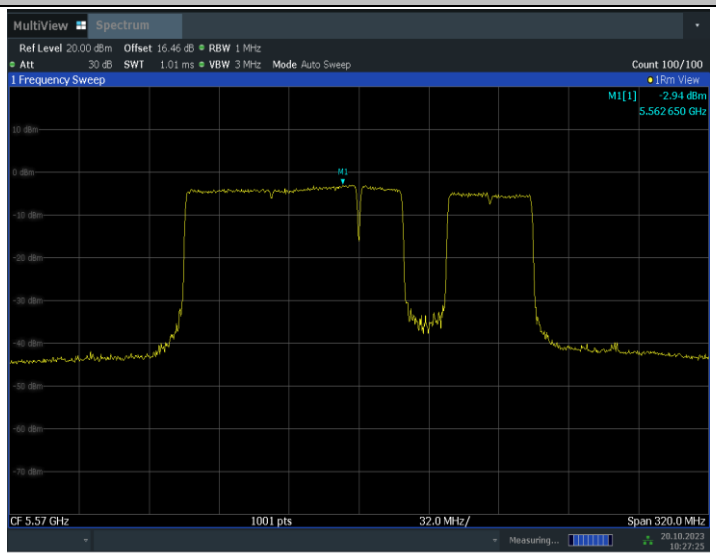
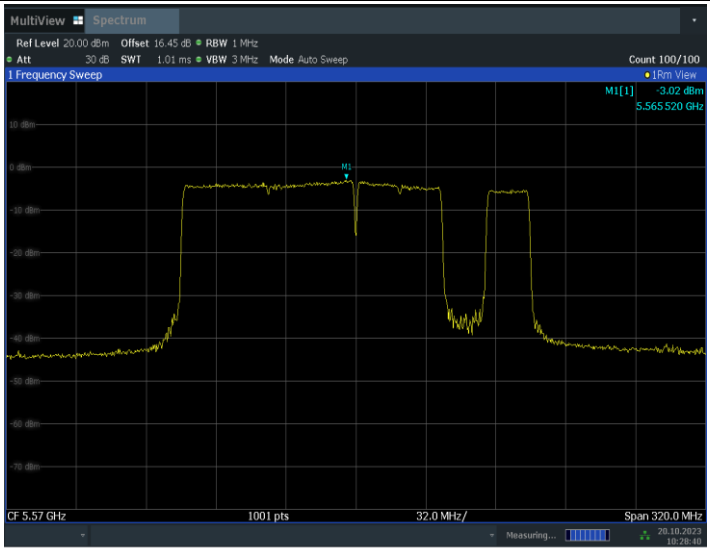
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11BE160MIMO_Ant15_5570_996+484+242_OFDMA_5

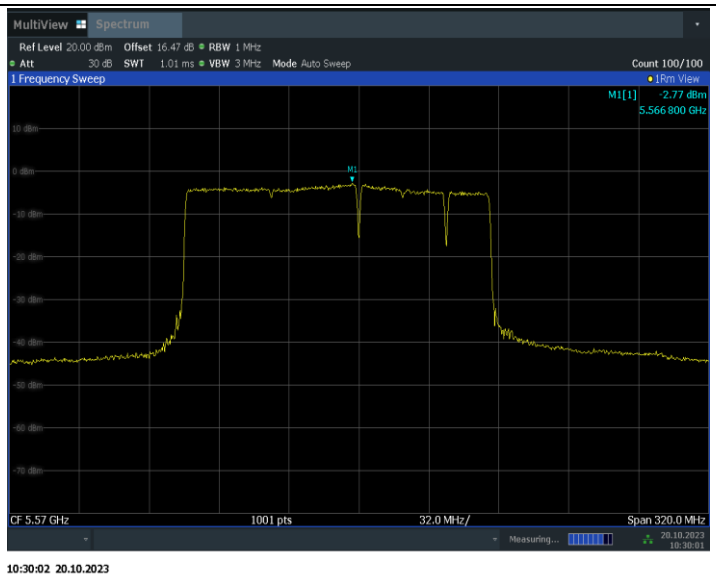


10:25:25 20.10.2023

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11BE160MIMO_Ant15_5570_996+484+242_OFDMA_6
 10:27:25 20.10.2023
11BE160MIMO_Ant15_5570_996+484+242_OFDMA_7
 10:28:41 20.10.2023
11BE160MIMO_Ant15_5570_996+484+242_OFDMA_8

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Conclusion: PASS

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A.4. 26dB Emission Bandwidth (conducted)

Measurement Limit:

Standard	Limit (kHz)
FCC 47 CFR Part 15.403 (i)	/

The measurement is made according to KDB 789033

Measurement Uncertainty:

Measurement Uncertainty	60.80Hz

EUT ID: UT04a

Measurement Result:

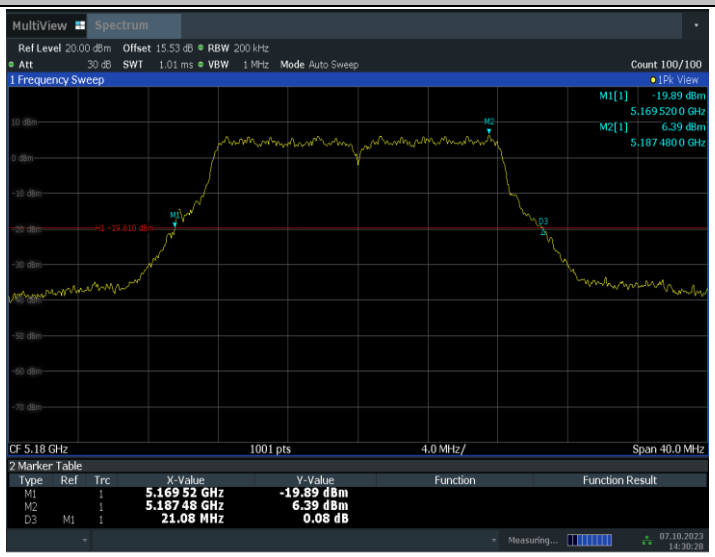
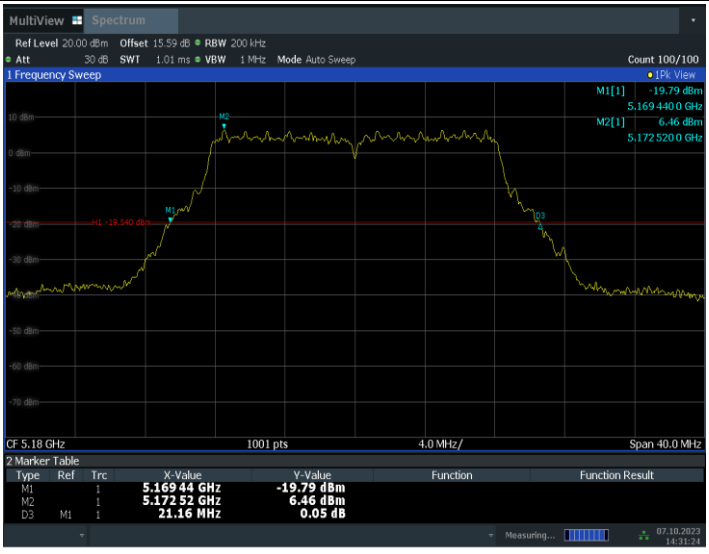
Test Mode	Antenna	Frequency [MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Verdict
11A-MIMO	Ant9	5180	21.08	5169.52	5190.60	PASS
	Ant15	5180	21.16	5169.44	5190.60	PASS
	Ant9	5200	20.96	5189.48	5210.44	PASS
	Ant15	5200	21.16	5189.40	5210.56	PASS
	Ant9	5240	20.96	5229.52	5250.48	PASS
	Ant15	5240	21.16	5229.40	5250.56	PASS
	Ant9	5260	21.00	5249.48	5270.48	PASS
	Ant15	5260	21.16	5249.44	5270.60	PASS
	Ant9	5280	21.08	5269.52	5290.60	PASS
	Ant15	5280	21.16	5269.40	5290.56	PASS
	Ant9	5320	20.96	5309.48	5330.44	PASS
	Ant15	5320	21.08	5309.48	5330.56	PASS
	Ant9	5500	20.96	5489.48	5510.44	PASS
	Ant15	5500	21.16	5489.40	5510.56	PASS
	Ant9	5580	20.96	5569.48	5590.44	PASS
	Ant15	5580	21.12	5569.40	5590.52	PASS
	Ant9	5700	20.96	5689.48	5710.44	PASS
	Ant15	5700	21.12	5689.44	5710.56	PASS
11N20MIMO	Ant9	5180	21.52	5169.28	5190.80	PASS
	Ant15	5180	21.40	5169.32	5190.72	PASS
	Ant9	5200	21.48	5189.08	5210.56	PASS
	Ant15	5200	21.28	5189.44	5210.72	PASS
	Ant9	5240	21.32	5229.32	5250.64	PASS
	Ant15	5240	21.28	5229.40	5250.68	PASS
	Ant9	5260	21.60	5249.12	5270.72	PASS
	Ant15	5260	21.36	5249.36	5270.72	PASS
	Ant9	5280	21.64	5269.08	5290.72	PASS
	Ant15	5280	21.36	5269.28	5290.64	PASS

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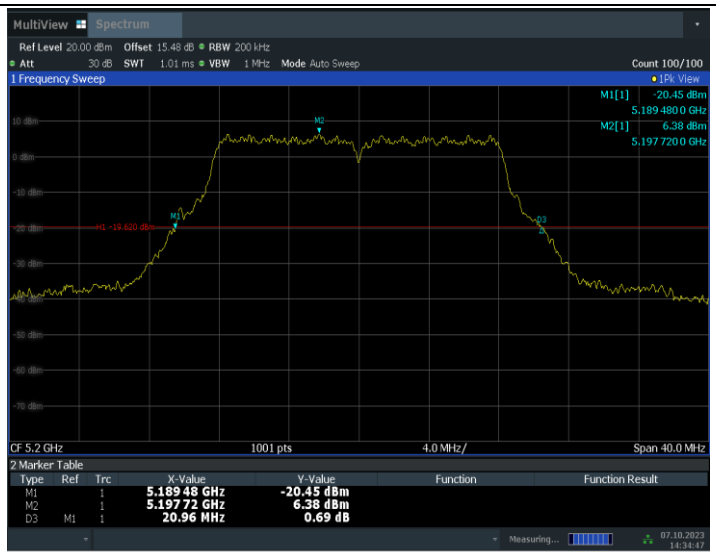
	Ant9	5320	21.52	5309.08	5330.60	PASS
	Ant15	5320	21.24	5309.40	5330.64	PASS
	Ant9	5500	21.56	5489.08	5510.64	PASS
	Ant15	5500	21.28	5489.36	5510.64	PASS
	Ant9	5580	21.80	5569.08	5590.88	PASS
	Ant15	5580	21.36	5569.28	5590.64	PASS
	Ant9	5700	21.24	5689.36	5710.60	PASS
	Ant15	5700	21.36	5689.28	5710.64	PASS
11N40MIMO	Ant9	5190	43.20	5168.56	5211.76	PASS
	Ant15	5190	43.12	5168.48	5211.60	PASS
	Ant9	5230	43.04	5208.56	5251.60	PASS
	Ant15	5230	42.96	5208.64	5251.60	PASS
	Ant9	5270	43.28	5248.40	5291.68	PASS
	Ant15	5270	42.96	5248.64	5291.60	PASS
	Ant9	5310	43.20	5288.48	5331.68	PASS
	Ant15	5310	42.96	5288.56	5331.52	PASS
	Ant9	5510	43.28	5488.32	5531.60	PASS
	Ant15	5510	43.12	5488.32	5531.44	PASS
	Ant9	5550	43.20	5528.32	5571.52	PASS
	Ant15	5550	43.28	5528.40	5571.68	PASS
	Ant9	5670	43.28	5648.48	5691.76	PASS
	Ant15	5670	43.12	5648.56	5691.68	PASS
11AX160MIMO	Ant9	5250	174.08	5163.28	5337.36	PASS
	Ant15	5250	173.44	5163.92	5337.36	PASS
	Ant9	5250_UNII-1	86.72	5163.28	5250	PASS
	Ant15	5250_UNII-1	86.08	5163.92	5250	PASS
	Ant9	5250_UNII-2A	87.36	5250	5337.36	PASS
	Ant15	5250_UNII-2A	87.36	5250	5337.36	PASS
	Ant9	5570	175.68	5481.68	5657.36	PASS
	Ant15	5570	175.04	5481.68	5656.72	PASS
11BE80MIMO	Ant9	5210	89.12	5165.20	5254.32	PASS
	Ant15	5210	88.64	5165.52	5254.16	PASS
	Ant9	5290	89.60	5245.04	5334.64	PASS
	Ant15	5290	88.80	5245.04	5333.84	PASS
	Ant9	5530	90.08	5484.56	5574.64	PASS
	Ant15	5530	88.80	5485.36	5574.16	PASS
	Ant9	5610	90.72	5564.08	5654.80	PASS
	Ant15	5610	88.96	5565.52	5654.48	PASS

Test graphs as below:

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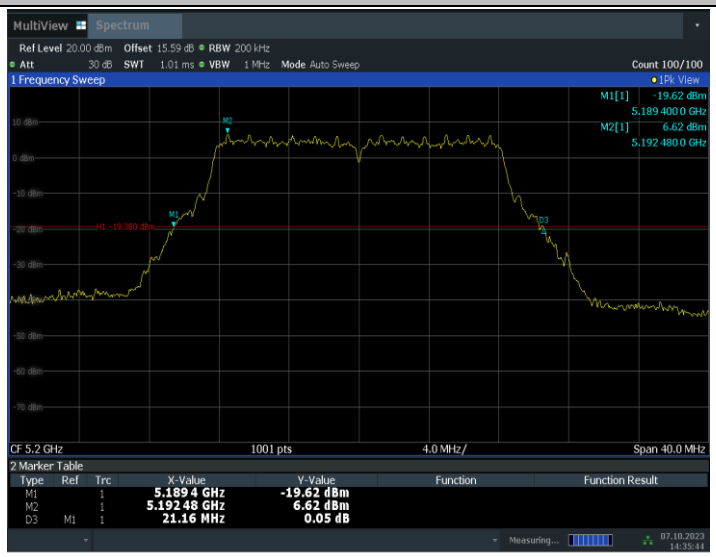
11A-MIMO_Ant9_5180
 14:30:28 07.10.2023
11A-MIMO_Ant15_5180
 14:31:24 07.10.2023
11A-MIMO_Ant9_5200

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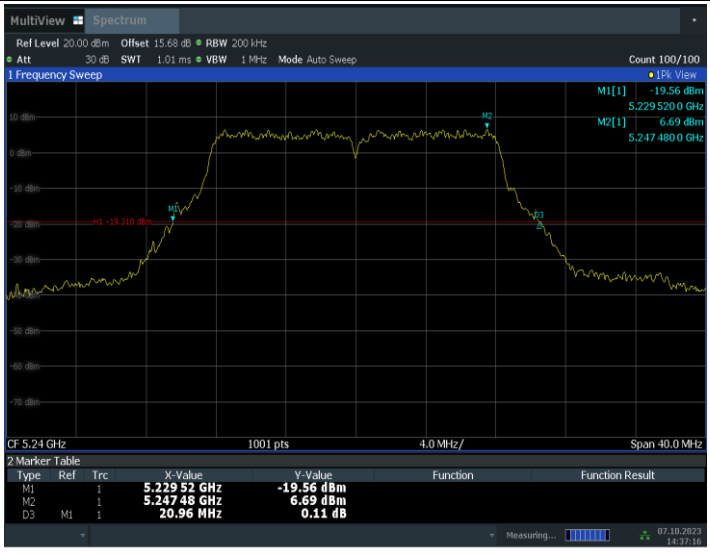
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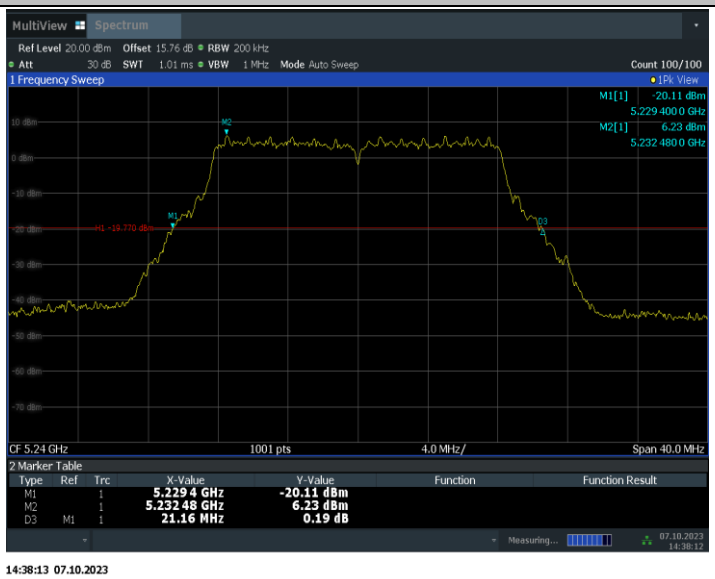
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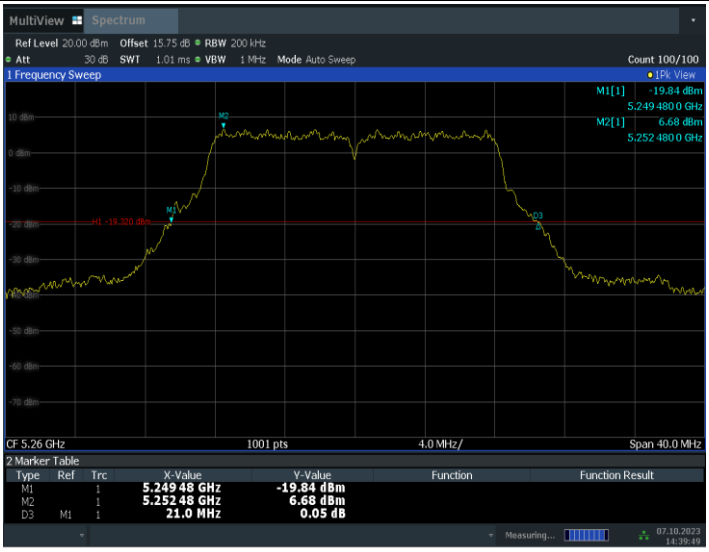


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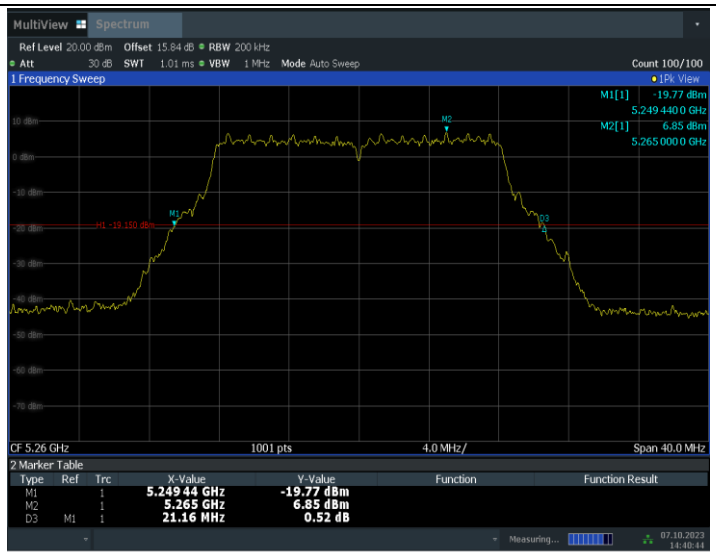
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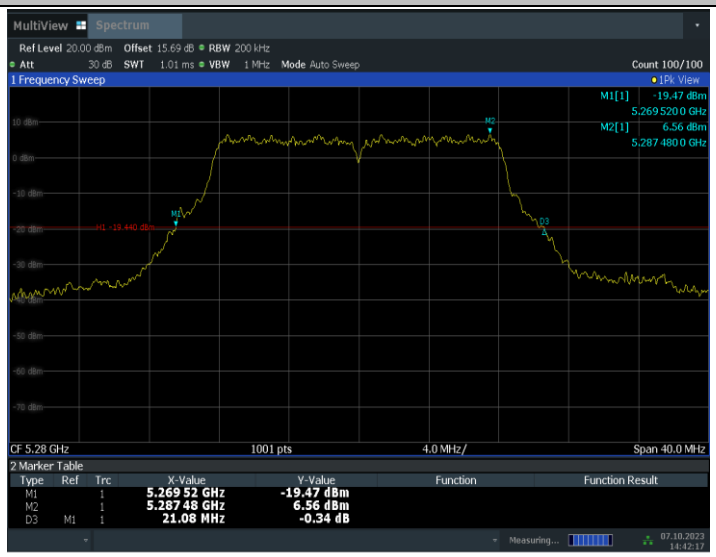
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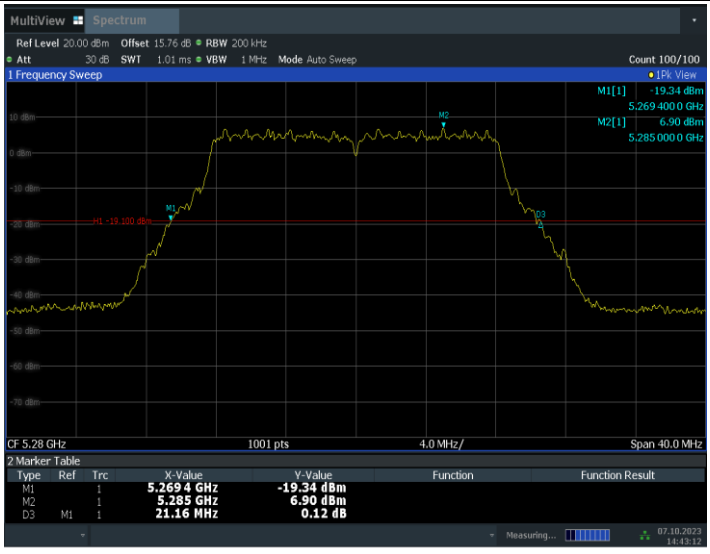
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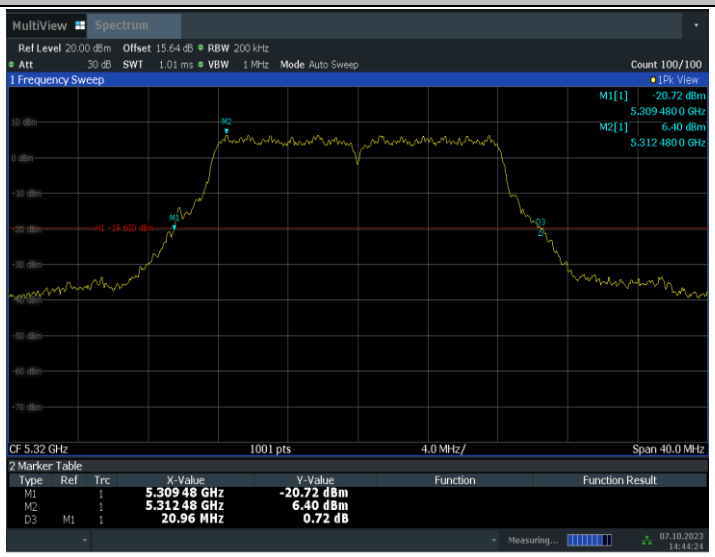
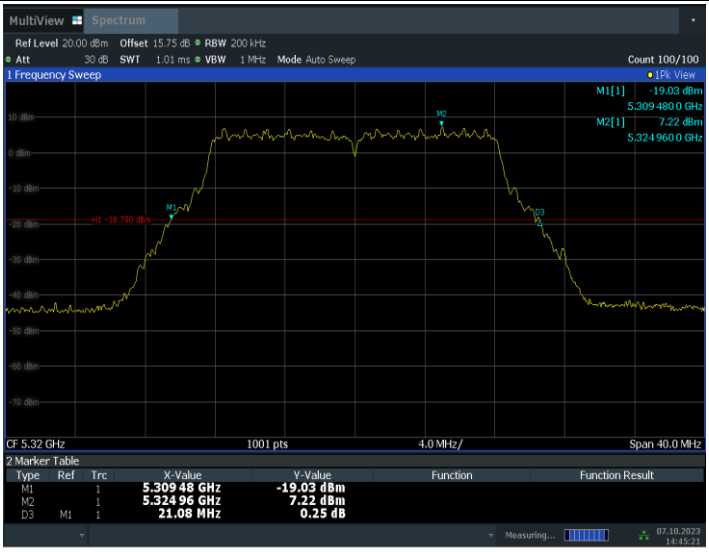
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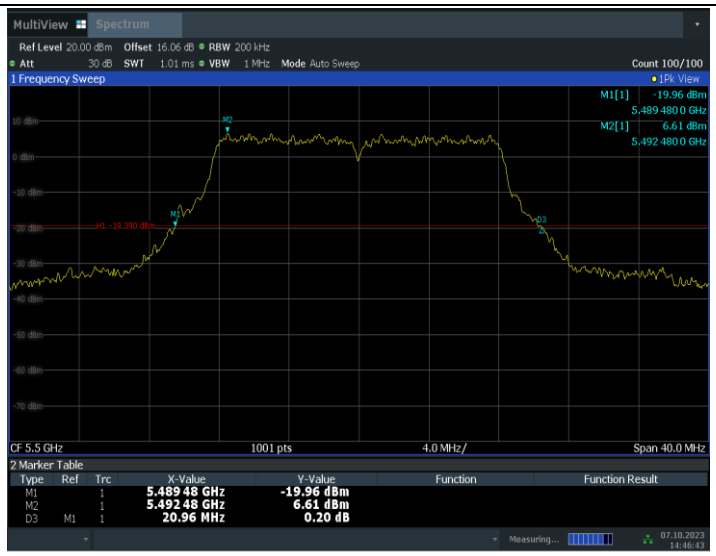


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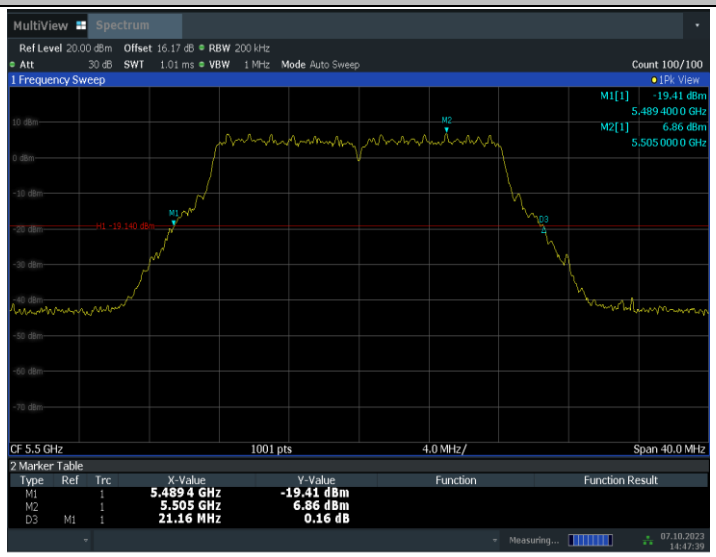
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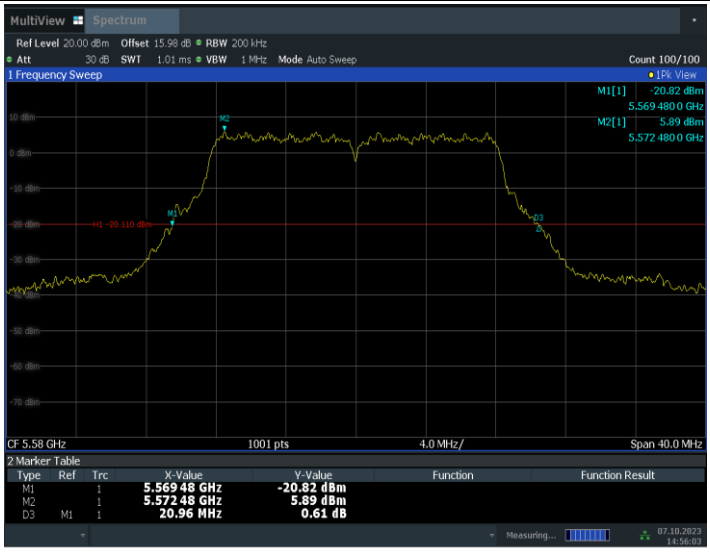
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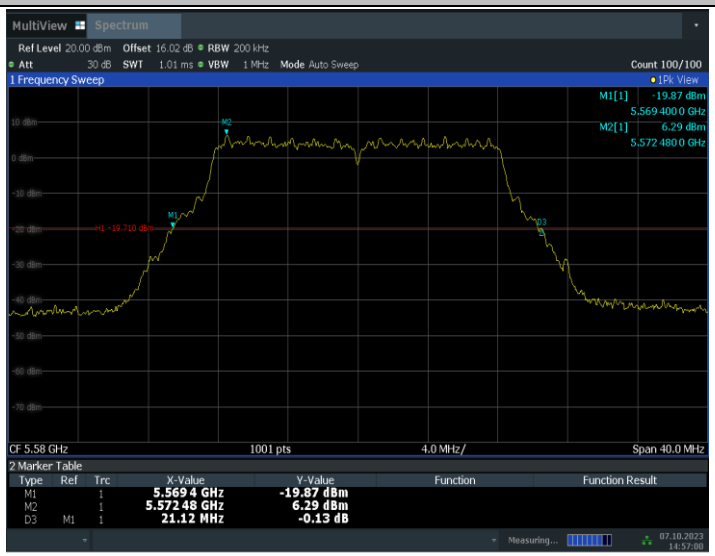
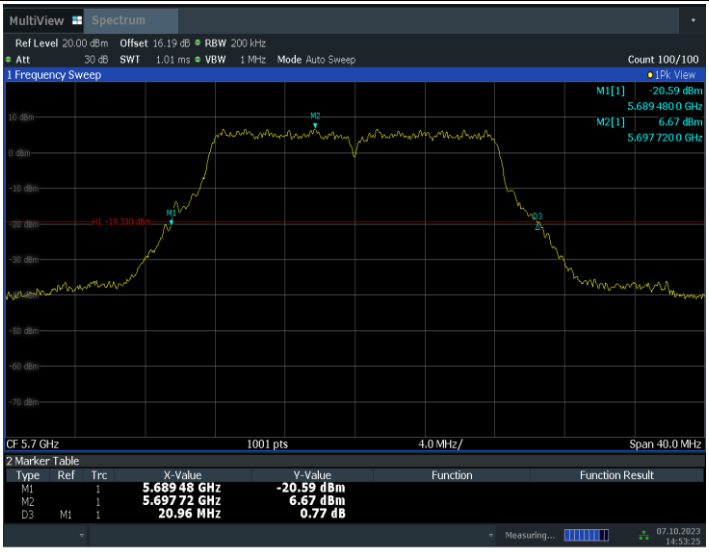
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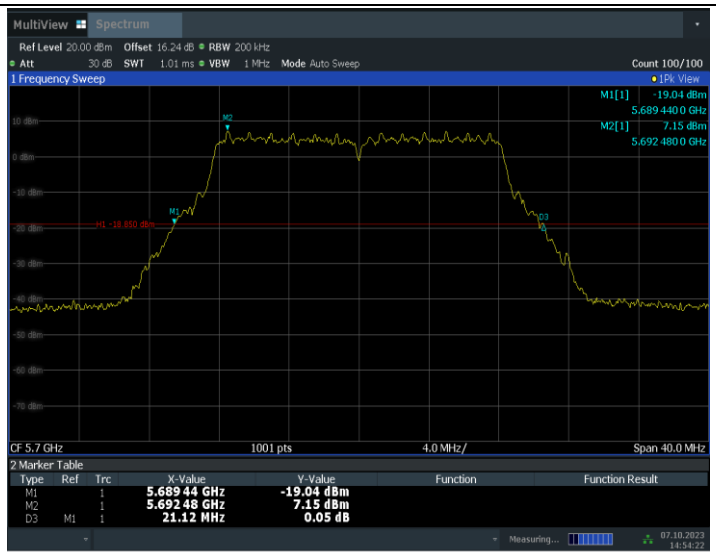


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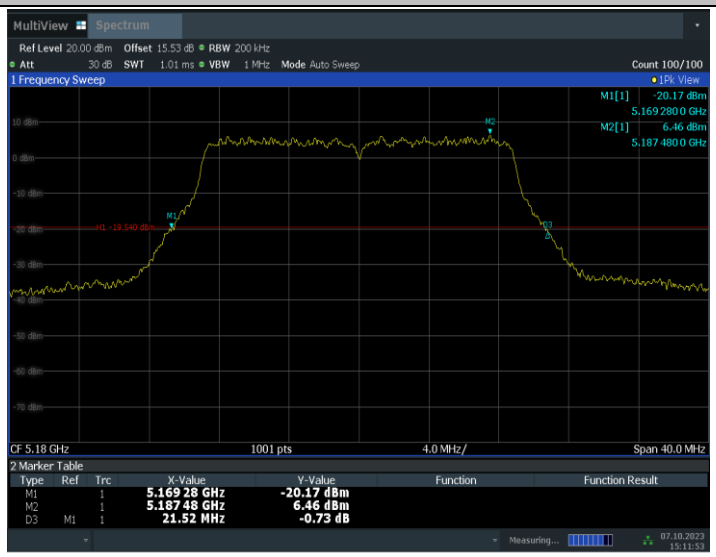
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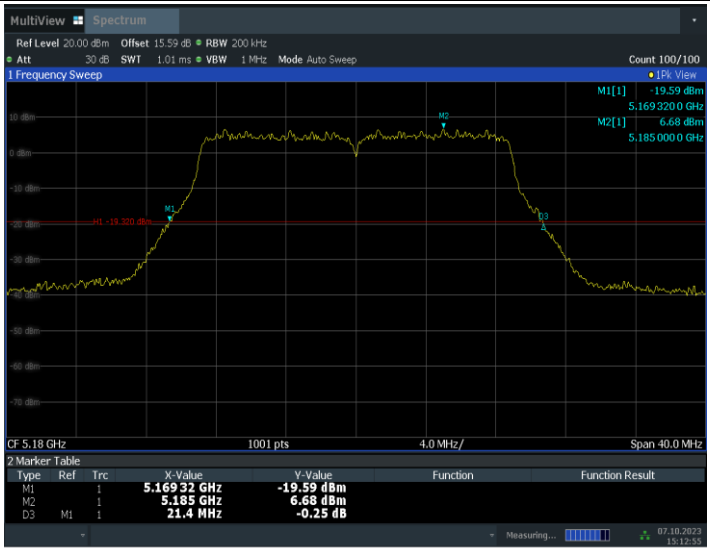
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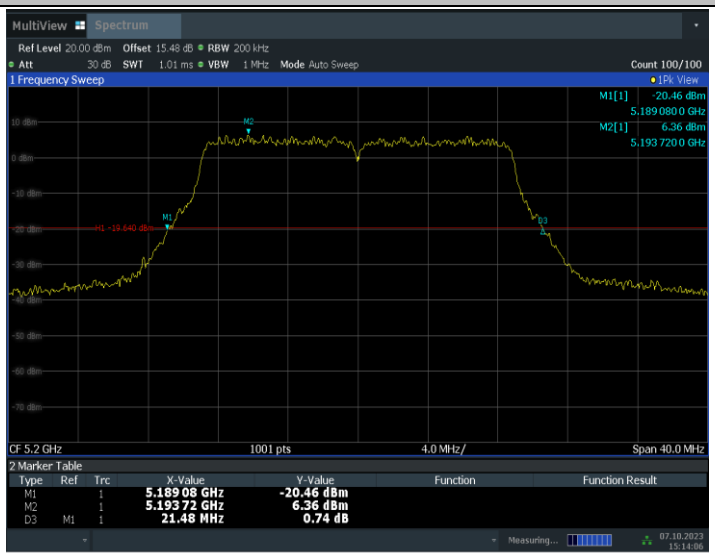
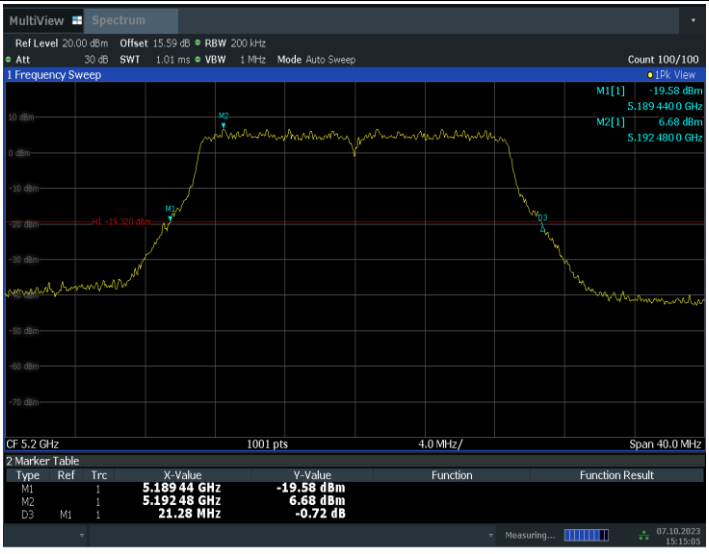
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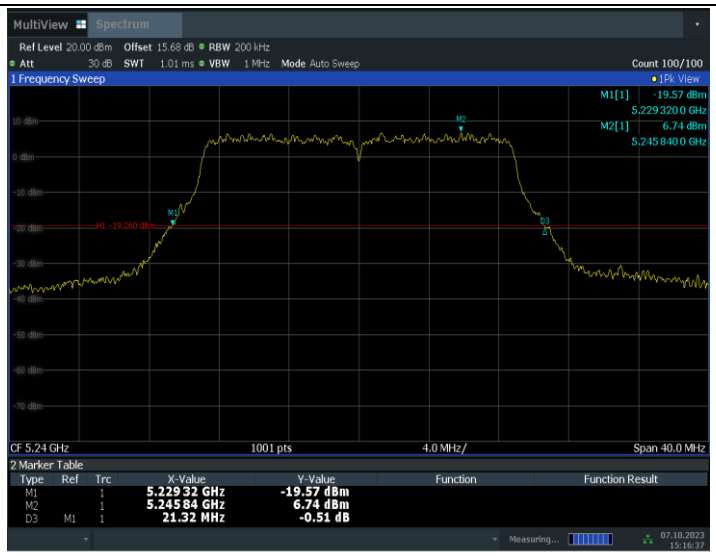


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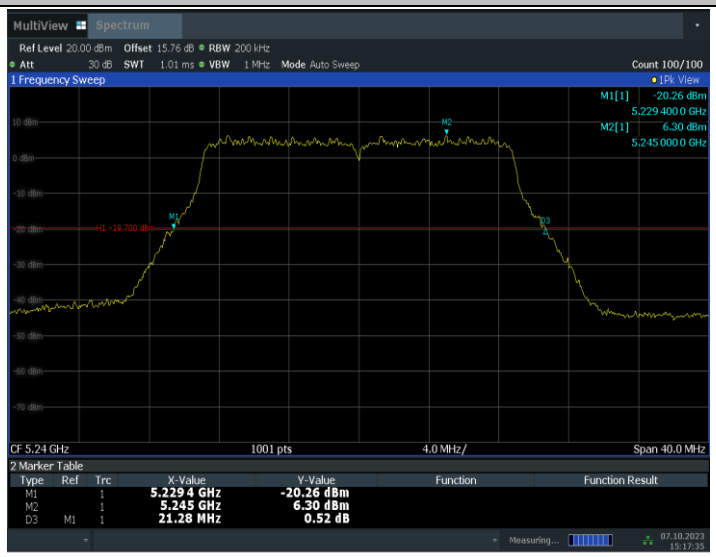
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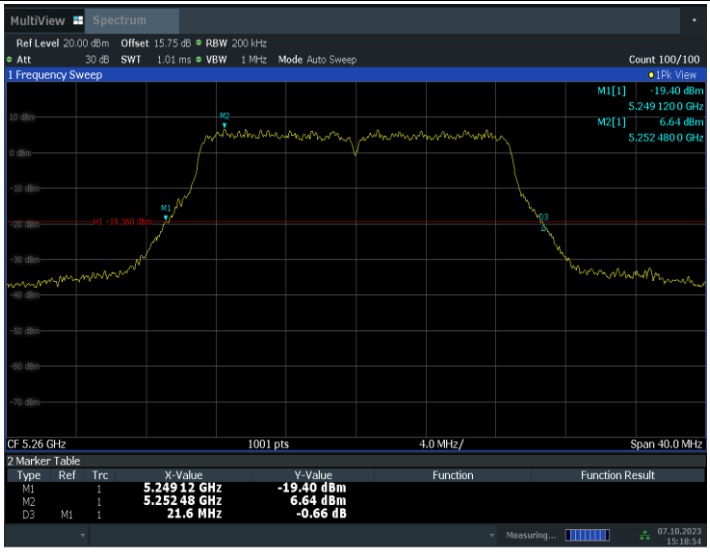
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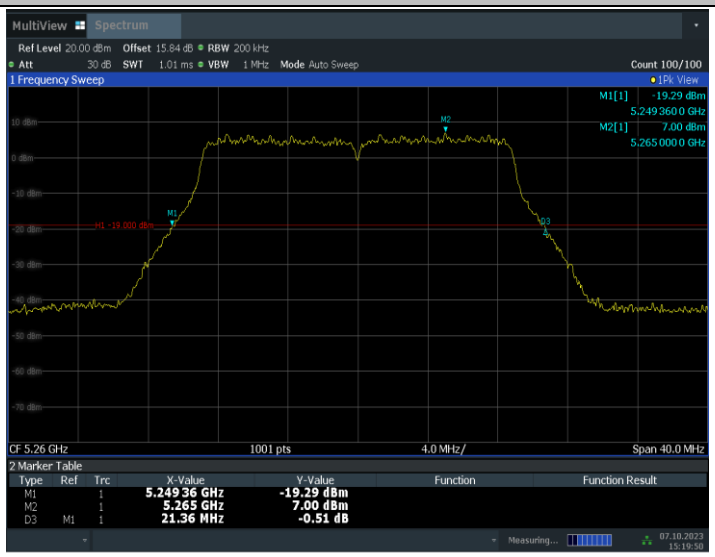
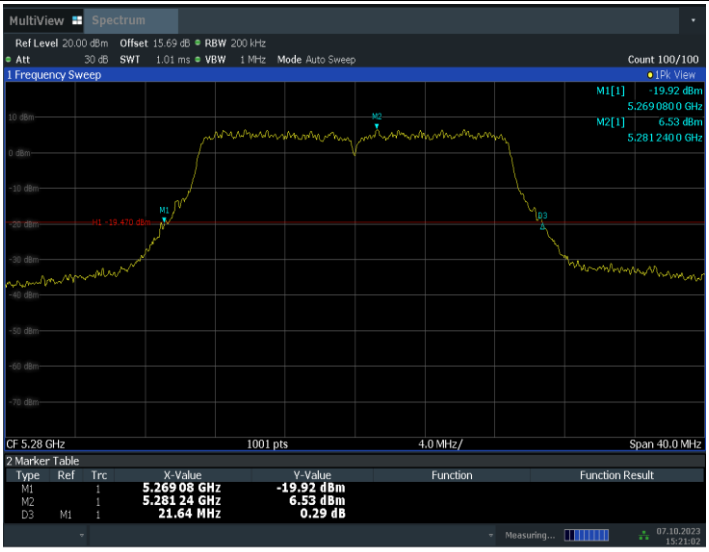
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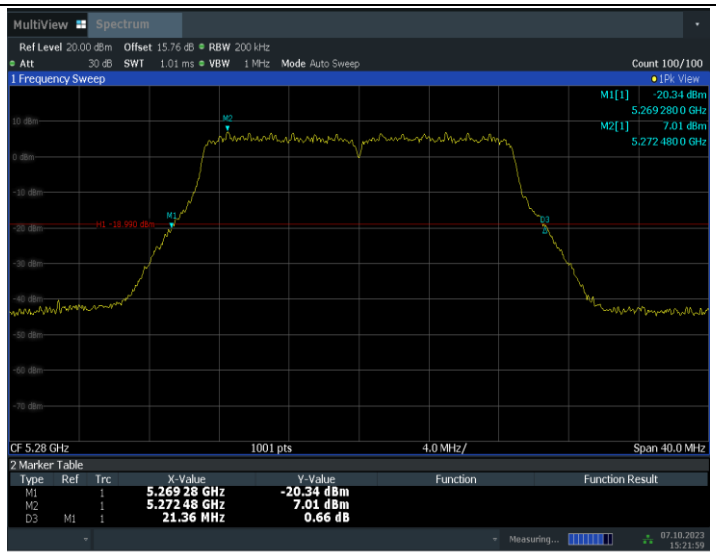


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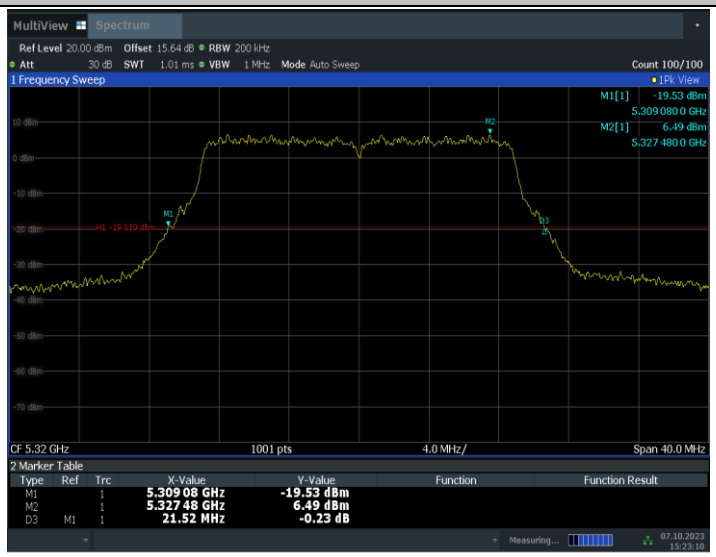
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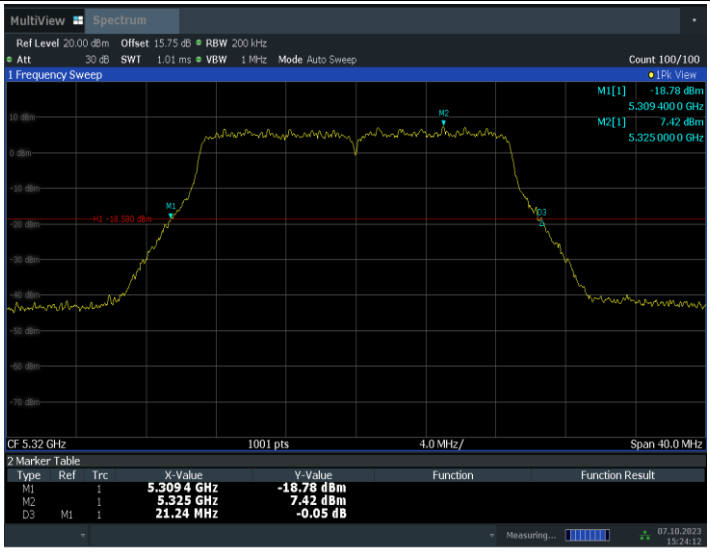
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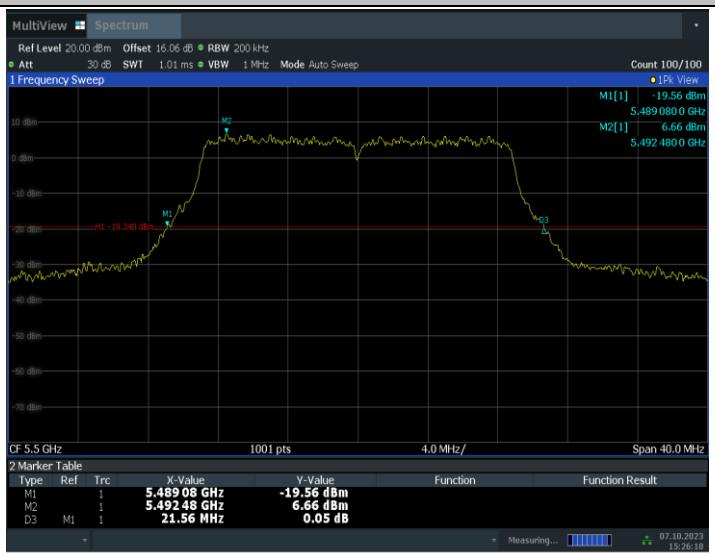
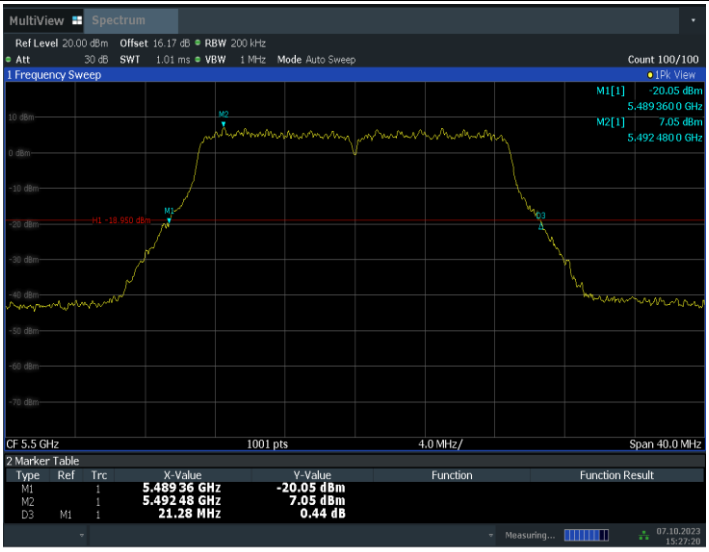
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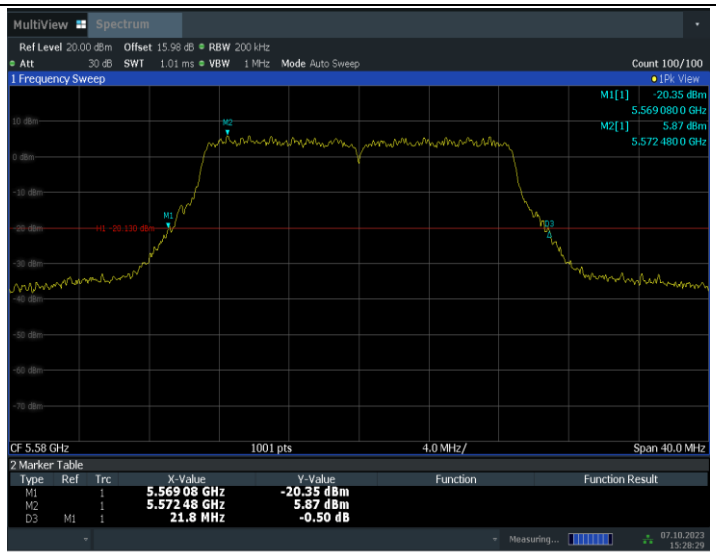


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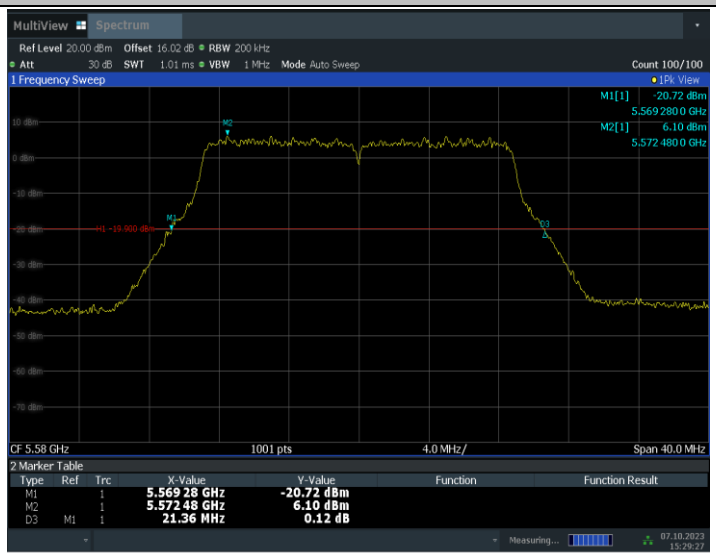
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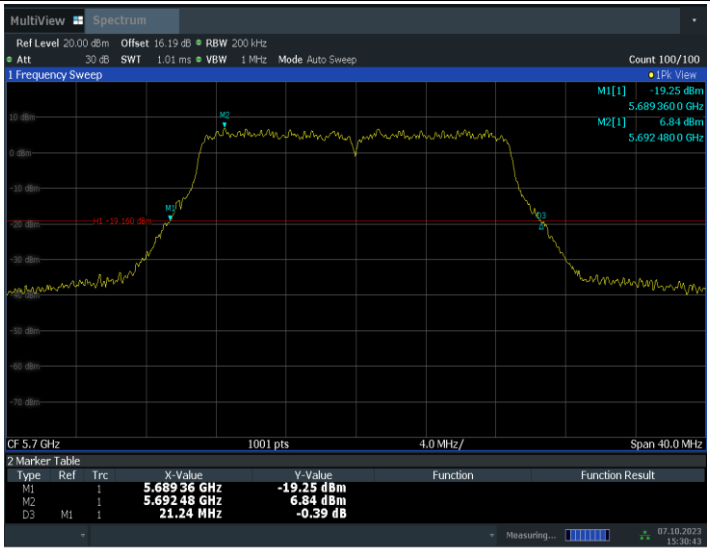
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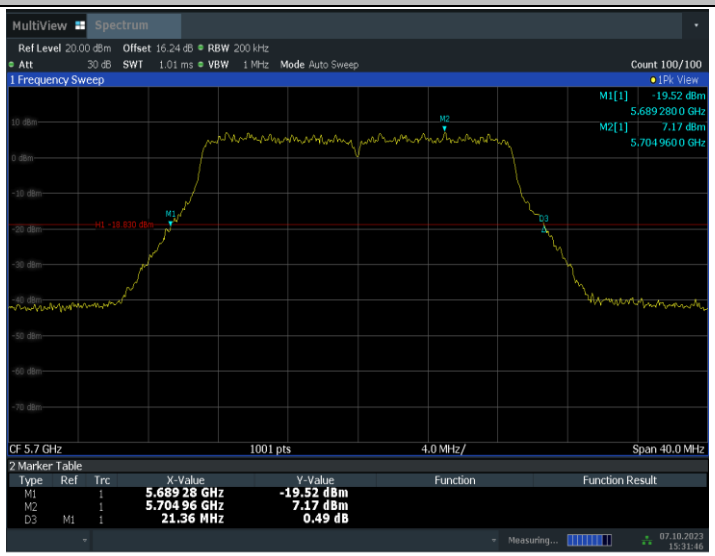
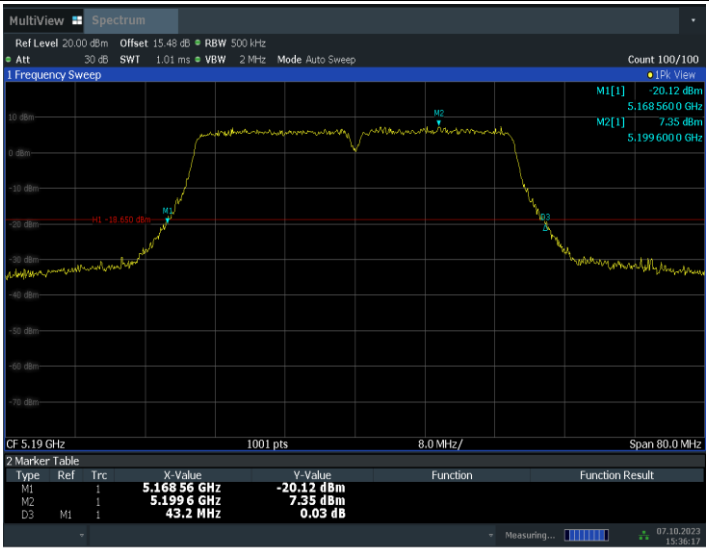
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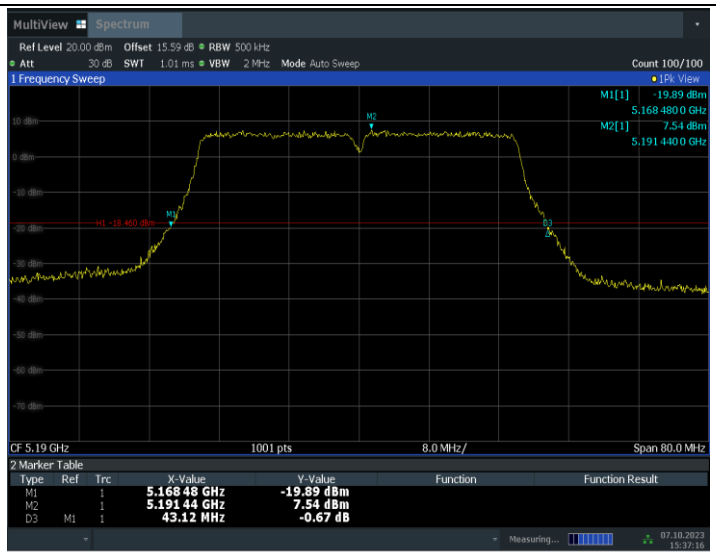


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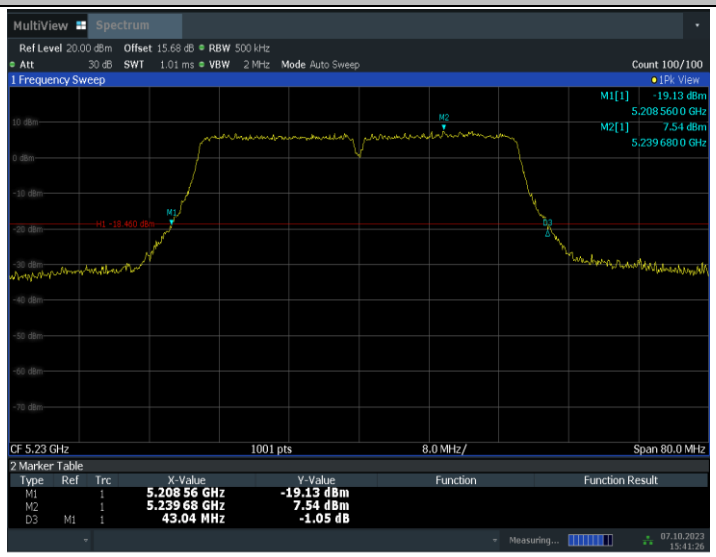
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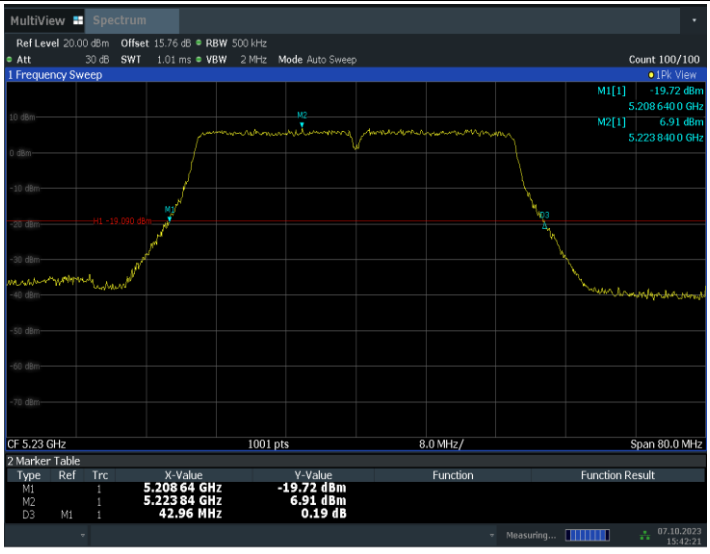
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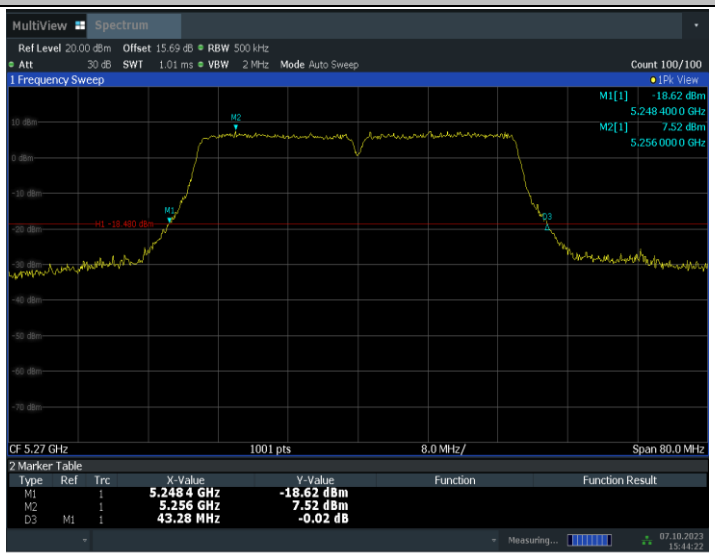
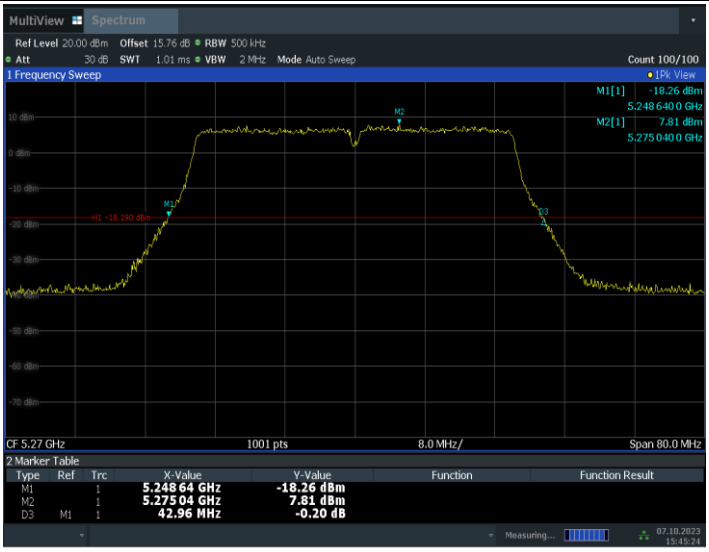
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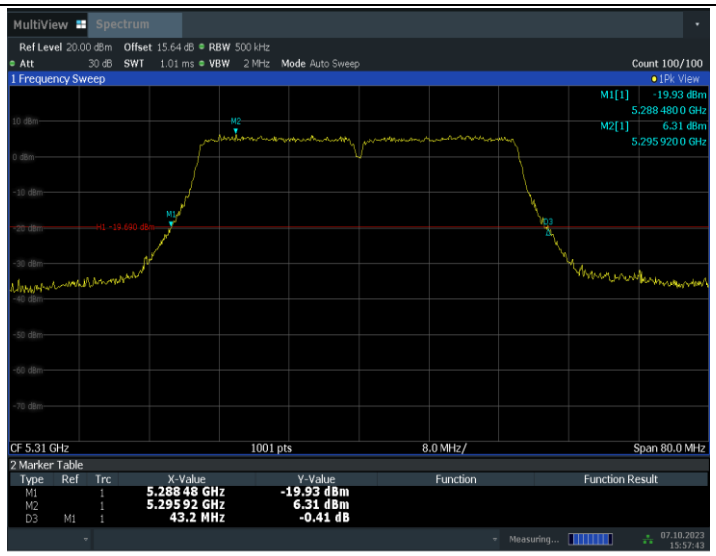


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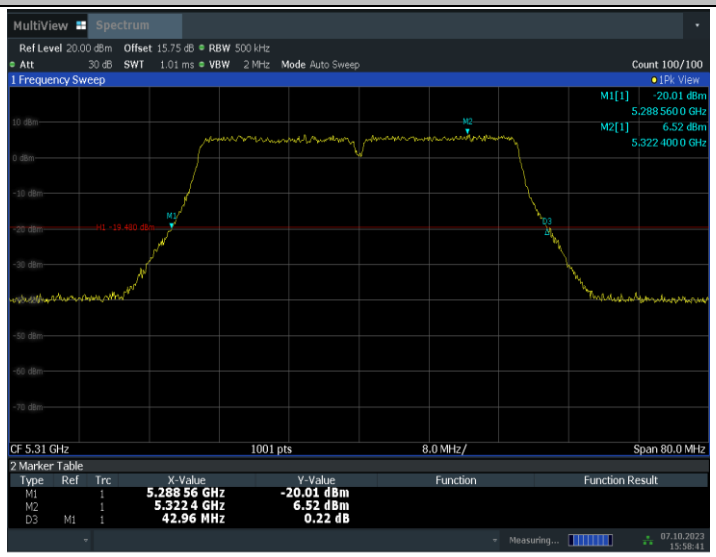
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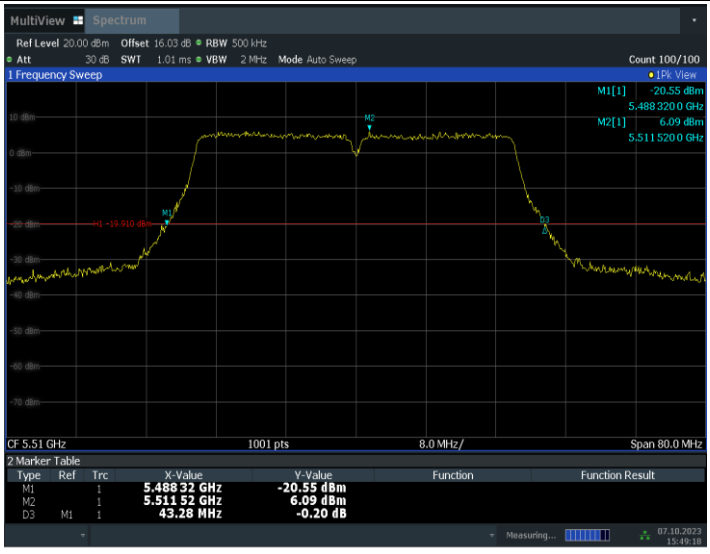
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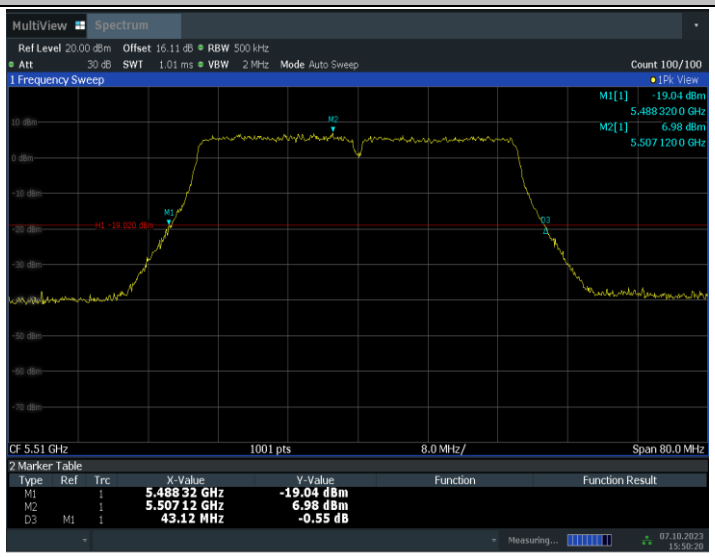
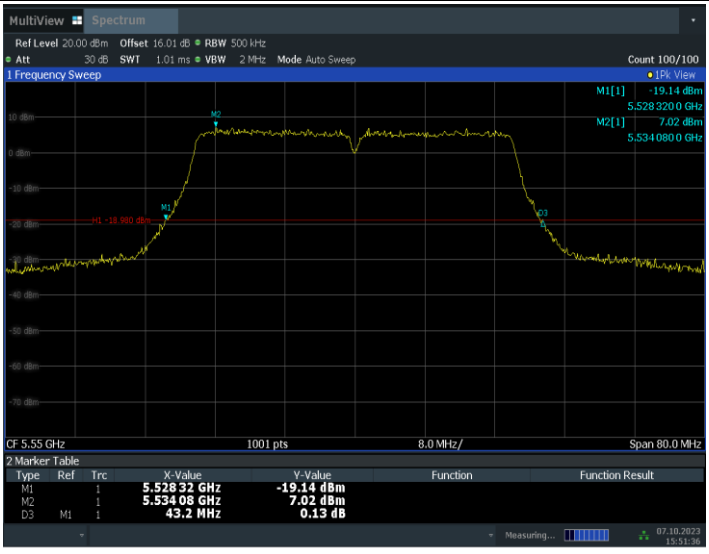
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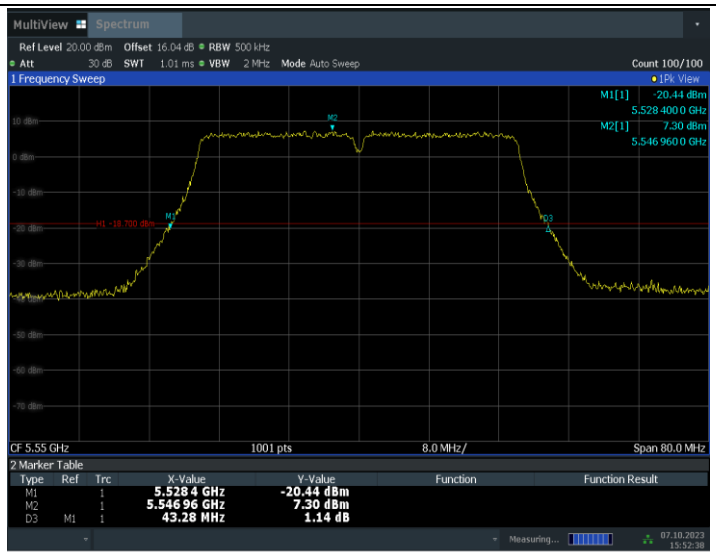


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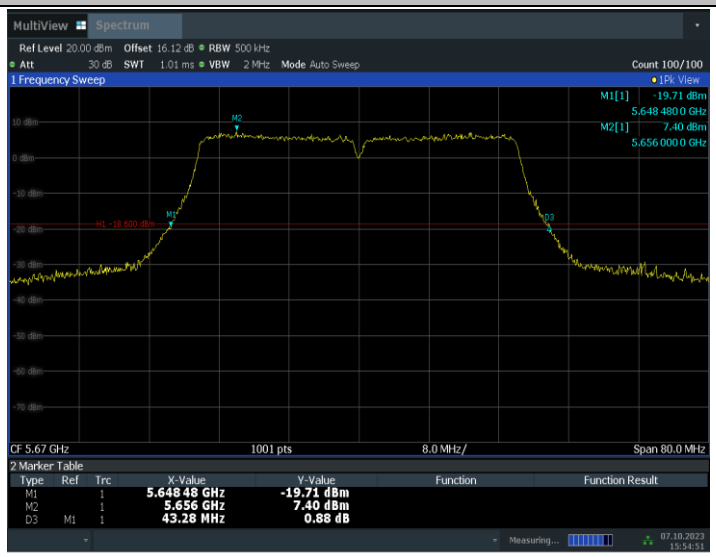
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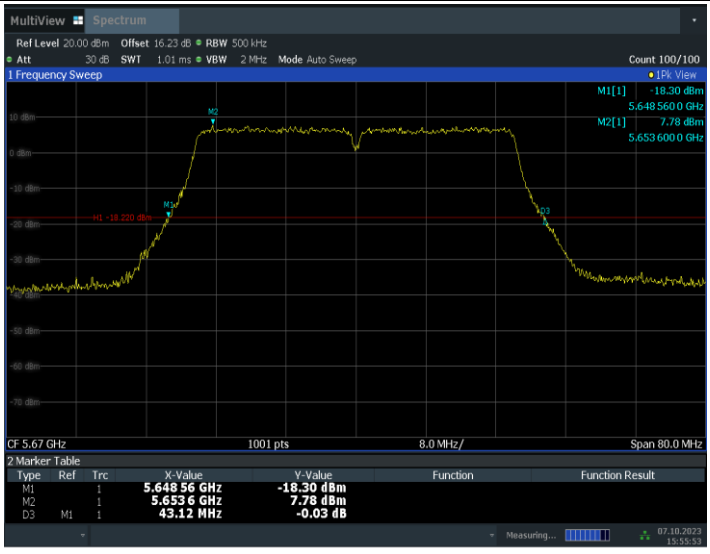
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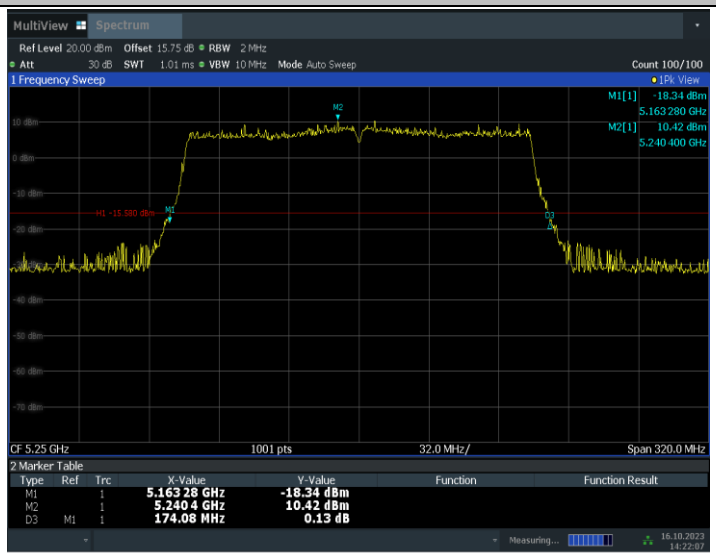
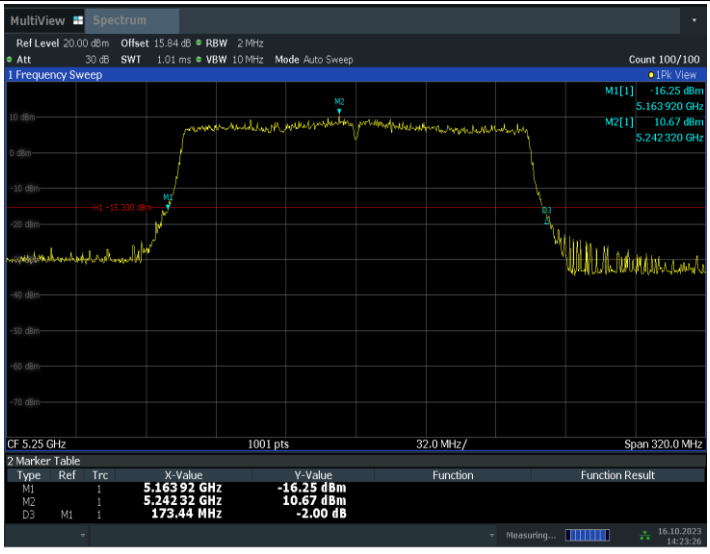
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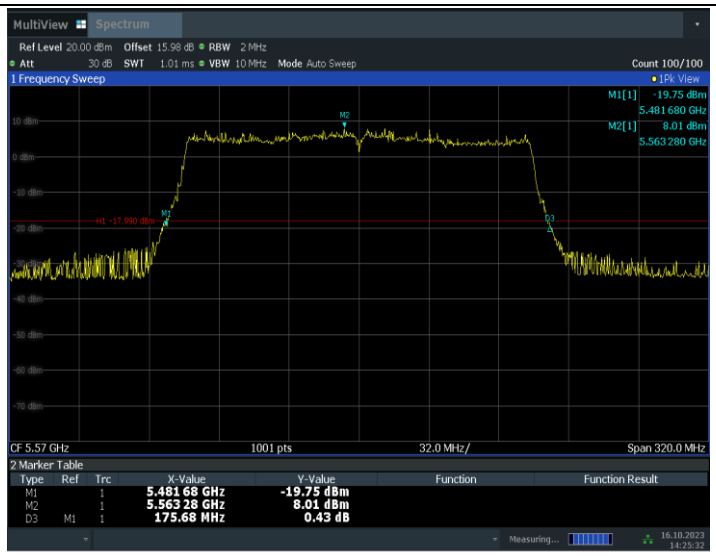


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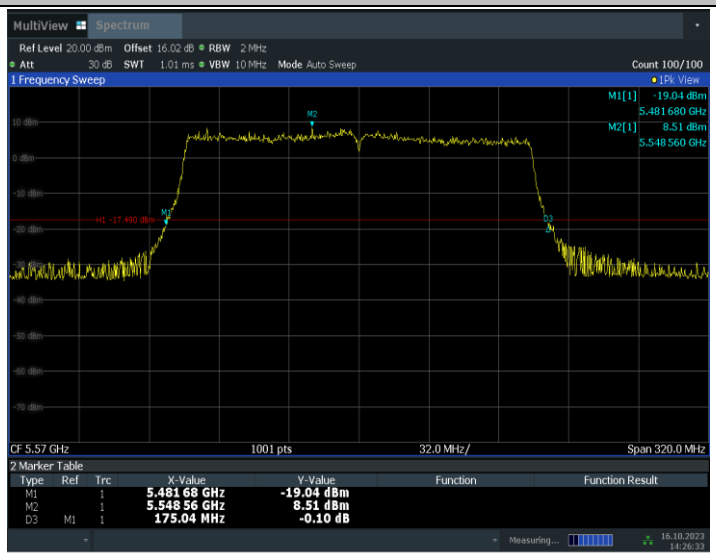
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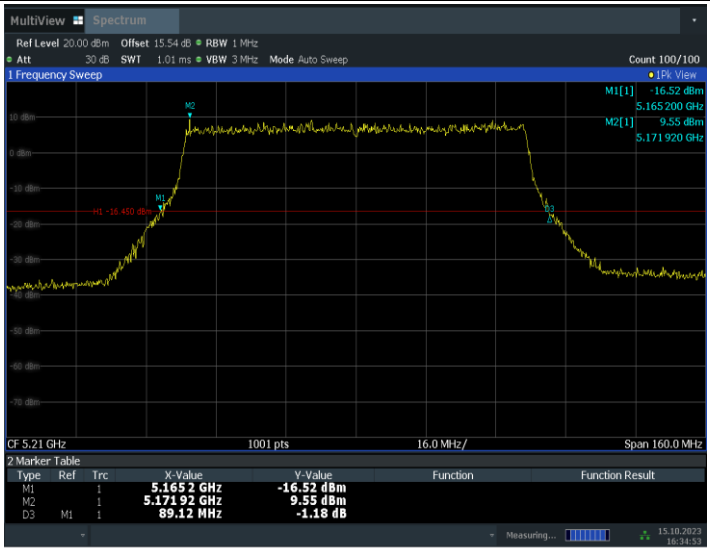
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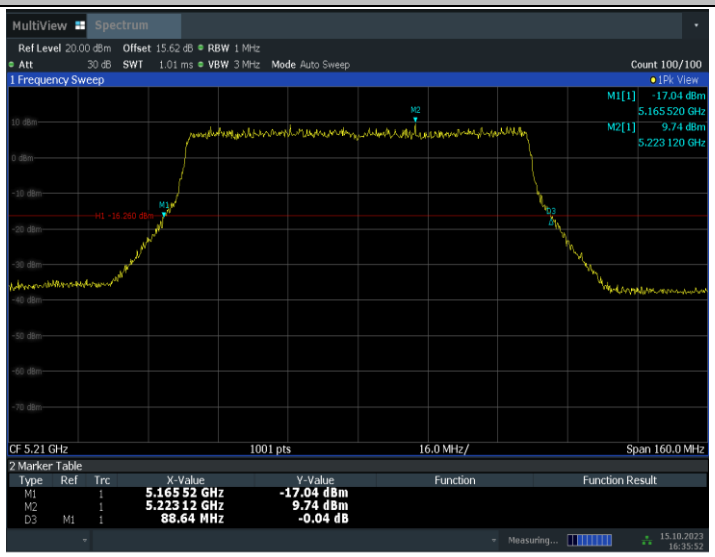
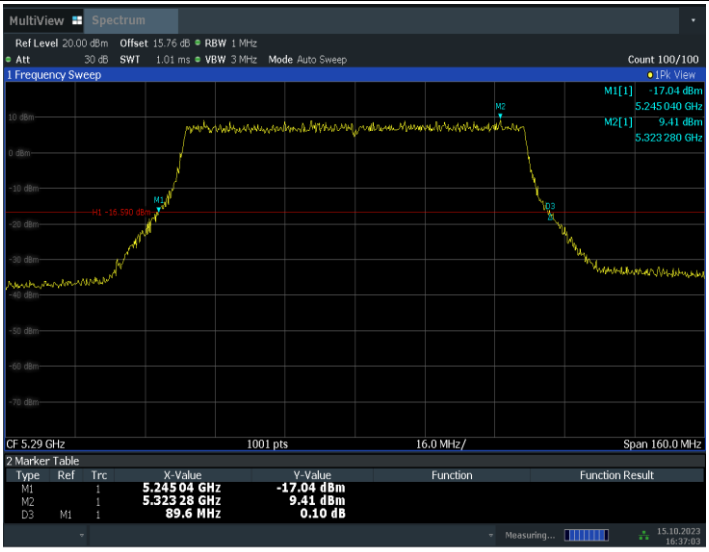
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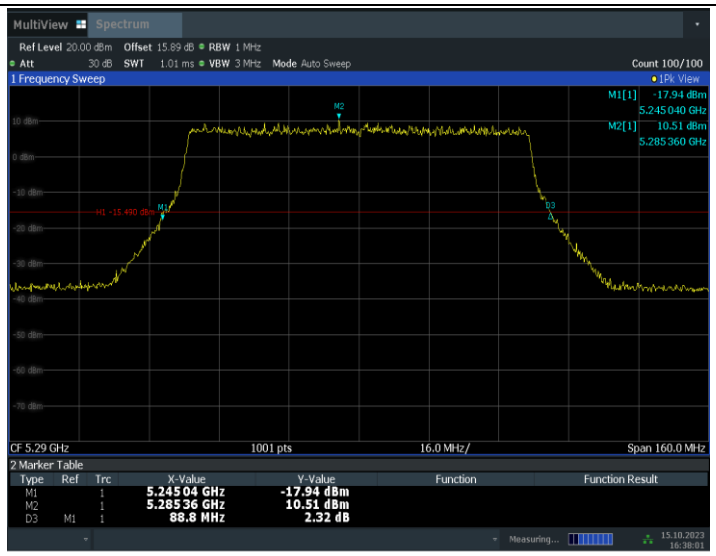
11BE80MIMO_Ant9_5210



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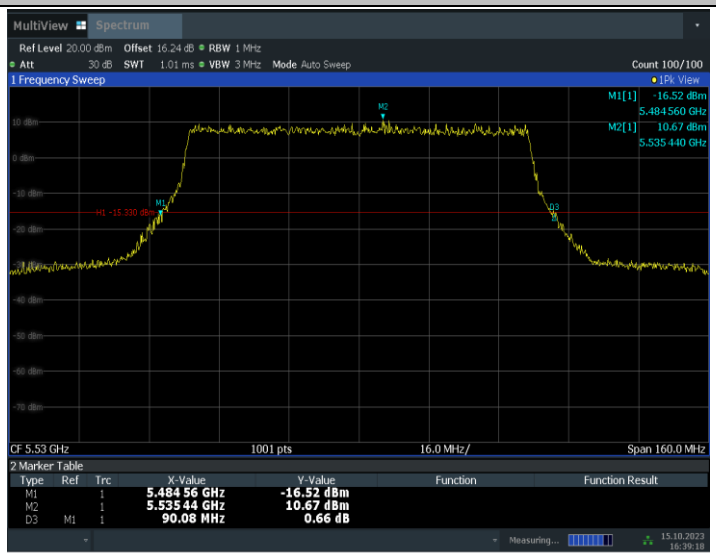
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 16:35:53 15.10.2023
11BE80MIMO_Ant9_5290
 16:37:03 15.10.2023
11BE80MIMO_Ant15_5290

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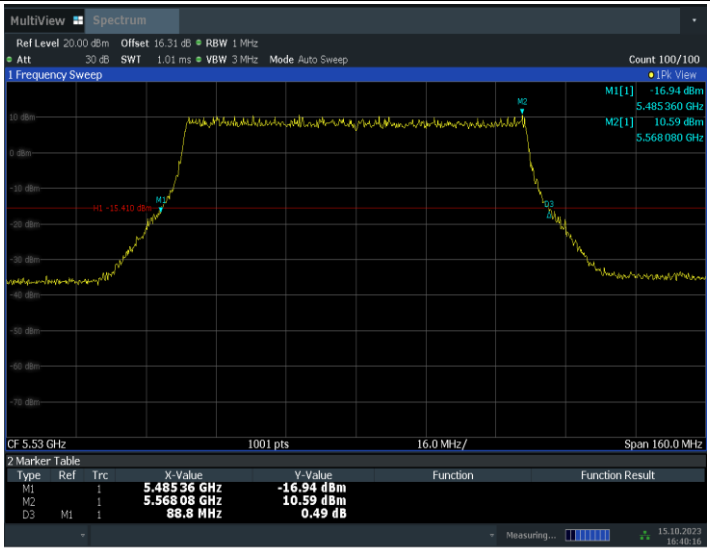
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11BE80MIMO_Ant9_5530



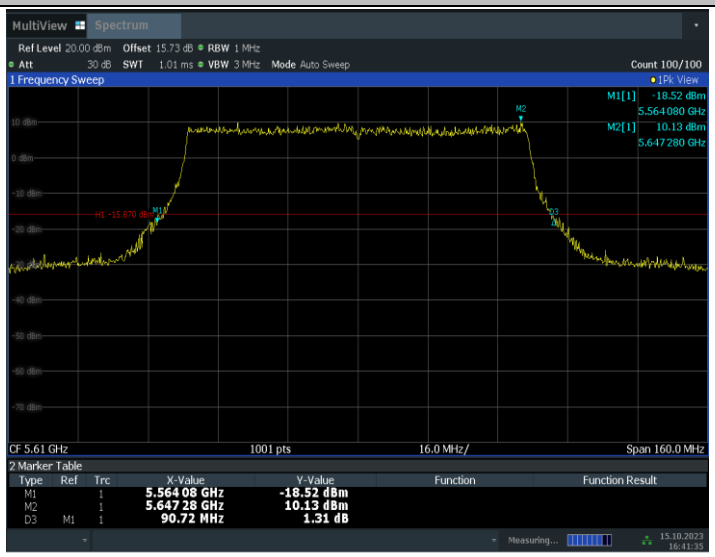
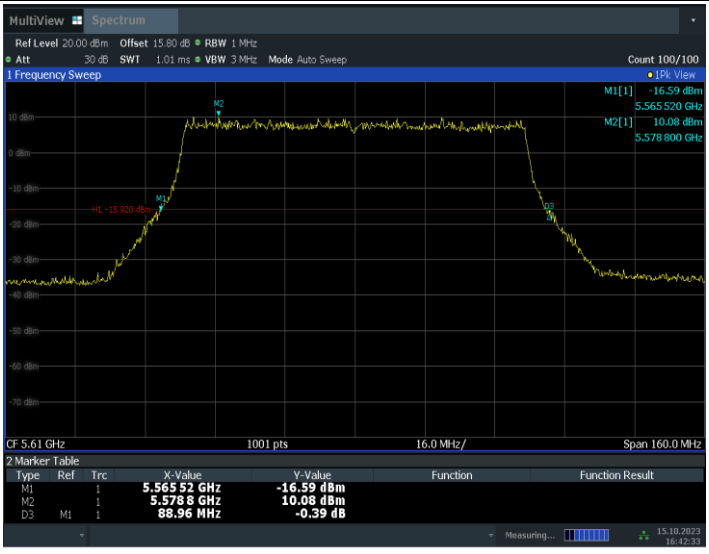
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11BE80MIMO_Ant15_5530



16:40:17 15.10.2023

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11BE80MIMO_Ant9_5610

11BE80MIMO_Ant15_5610


Conclusion: PASS

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A.5. Band Edges Compliance

A5.1 Band Edges - Radiated

Measurement Limit:

Unwanted Emissions in the unrestricted bands shall not exceed the limits that shown in 15.407:

Standard	Limit
FCC 47 CFR Part 15.407	(1) 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. (2) 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. (3) 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.

In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

Frequency (MHz)	Field strength(μV/m)	Measurement distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30

Limit in restricted band:

Frequency of emission (MHz)	Field strength(uV/m)	Field strength(dBuV/m)	Measurement distance(m)
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

Note: When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor (as defined in KDB 789033 II.G.2.d).

Full RU

Mode	Channel	Test Results	Conclusion
802.11a	5180 MHz	Fig.1	P
	5320 MHz	Fig.2	P
	5500 MHz	Fig.3	P
	5700 MHz	Fig.4	P
802.11n HT20	5180 MHz	Fig.5	P
	5320 MHz	Fig.6	P
	5500 MHz	Fig.7	P
	5700 MHz	Fig.8	P
802.11n	5190 MHz	Fig.9	P

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HT40	5310 MHz	Fig.10	P
	5510 MHz	Fig.11	P
	5670 MHz	Fig.12	P
802.11ac HT20	5180 MHz	Fig.13	P
	5320 MHz	Fig.14	P
	5500 MHz	Fig.15	P
	5700 MHz	Fig.16	P
802.11ac HT40	5190 MHz	Fig.17	P
	5310 MHz	Fig.18	P
	5510 MHz	Fig.19	P
	5670 MHz	Fig.20	P
802.11ac HT80	5210MHz	Fig.21	P
	5290MHz	Fig.22	P
	5530MHz	Fig.23	P
	5610MHz	Fig.24	P
802.11ax HT20	5180 MHz	Fig.25	P
	5320 MHz	Fig.26	P
	5500 MHz	Fig.27	P
	5700 MHz	Fig.28	P
802.11ax HT40	5190 MHz	Fig.29	P
	5310 MHz	Fig.30	P
	5510 MHz	Fig.31	P
	5670 MHz	Fig.32	P
802.11ax HT80	5210 MHz	Fig.33	P
	5290 MHz	Fig.34	P
	5530 MHz	Fig.35	P
	5610 MHz	Fig.36	P
802.11ax HT160	5250 MHz	Fig.37	P
	5570 MHz	Fig.38	P
802.11be HT20	5180 MHz	Fig.39	P
	5320 MHz	Fig.40	P
	5500 MHz	Fig.41	P
	5700 MHz	Fig.42	P
802.11be HT40	5190 MHz	Fig.43	P
	5310 MHz	Fig.44	P
	5510 MHz	Fig.45	P
	5670 MHz	Fig.46	P
802.11be HT80	5210 MHz	Fig.47	P
	5290 MHz	Fig.48	P
	5530 MHz	Fig.49	P
	5610 MHz	Fig.50	P
802.11be HT160	5250 MHz	Fig.51	P
	5570 MHz	Fig.52	P

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Partial RU

Mode	Channel	RU	Test Results	Conclusion
802.11ax HT20	5180 MHz	26RU index 0	Fig.53	P
	5320 MHz	26RU index 8	Fig.54	P
	5500 MHz	26RU index 0	Fig.55	P
	5700 MHz	26RU index 8	Fig.56	P
802.11ax HT40	5190 MHz	26RU index 0	Fig.57	P
	5310 MHz	26RU index 17	Fig.58	P
	5510 MHz	26RU index 0	Fig.59	P
	5670 MHz	26RU index 17	Fig.60	P
802.11ax HT80	5210 MHz	26RU index 0	Fig.61	P
	5290 MHz	26RU index 36	Fig.62	P
	5530 MHz	26RU index 0	Fig.63	P
	5610 MHz	26RU index 36	Fig.64	P
802.11ax HT160	5250 MHz	26RU index 0	Fig.65	P
	5570 MHz	26RU index 72	Fig.66	P
802.11be HT20	5180 MHz	26RU index 0	Fig.67	P
	5320 MHz	26RU index 8	Fig.68	P
	5500 MHz	26RU index 0	Fig.69	P
	5700 MHz	26RU index 8	Fig.70	P
802.11be HT40	5190 MHz	26RU index 0	Fig.71	P
	5310 MHz	26RU index 17	Fig.72	P
	5510 MHz	26RU index 0	Fig.73	P
	5670 MHz	26RU index 17	Fig.74	P
802.11be HT80	5210 MHz	26RU index 0	Fig.75	P
	5290 MHz	26RU index 36	Fig.76	P
	5530 MHz	26RU index 0	Fig.77	P
	5610 MHz	26RU index 36	Fig.78	P
802.11be HT160	5250 MHz	26RU index 0	Fig.79	P
	5570 MHz	26RU index 72	Fig.80	P

Conclusion: PASS

Test graphs as below:

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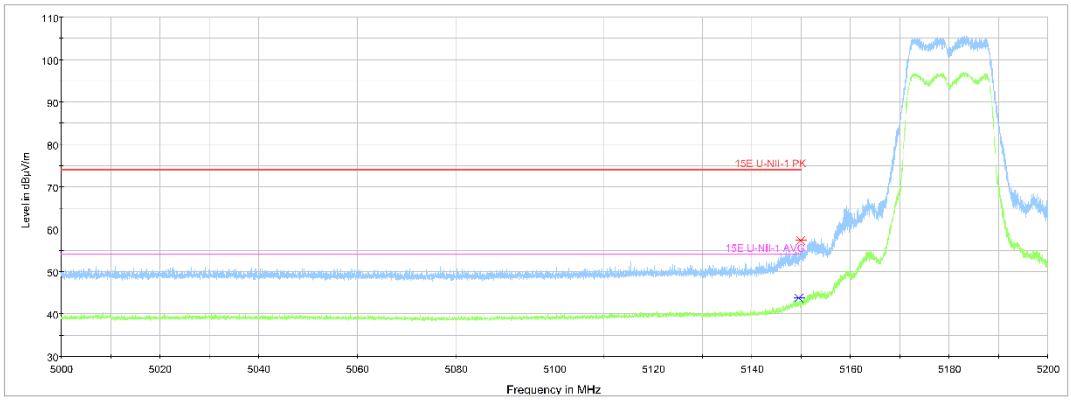


Fig. 1 Band Edges (802.11a MIMO,Ch36, 5180MHz)

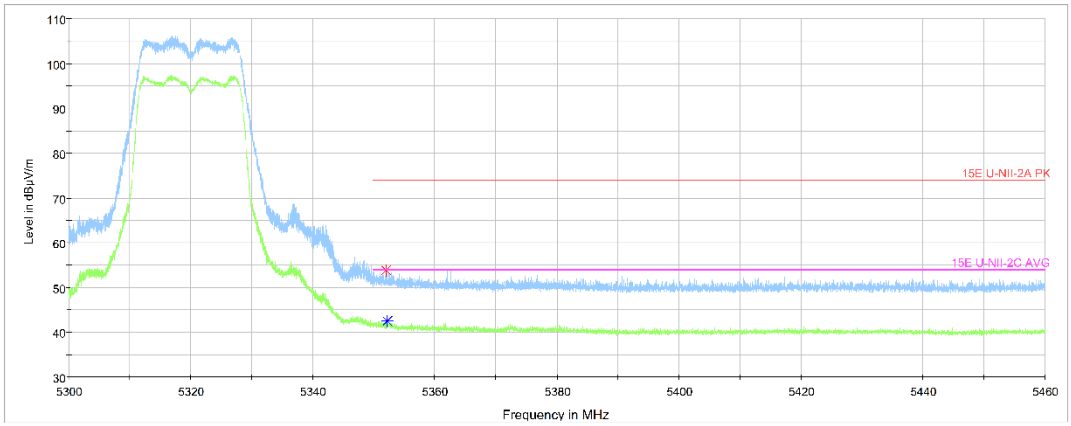


Fig. 2 Band Edges (802.11a MIMO, Ch64, 5320MHz)

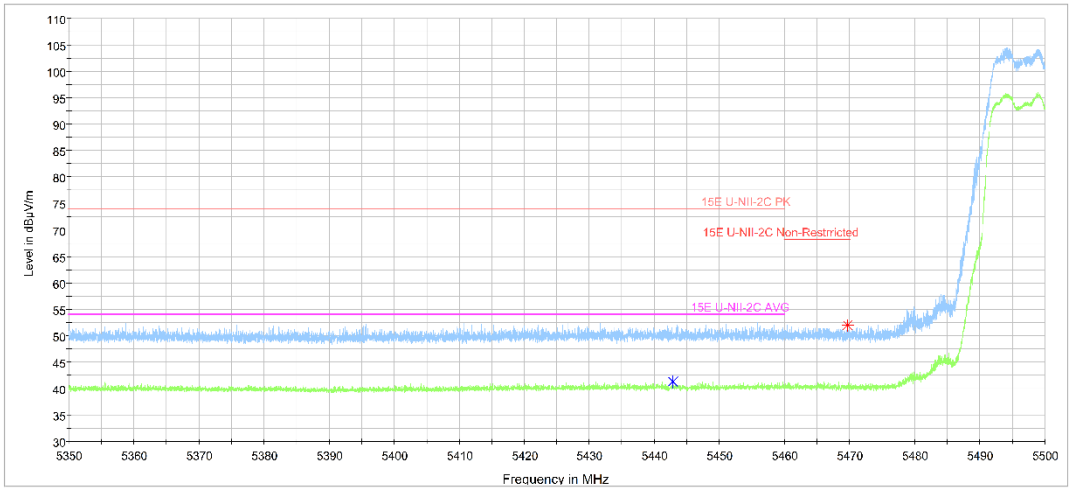


Fig. 3 Band Edges (802.11a MIMO, Ch100, 5500MHz)

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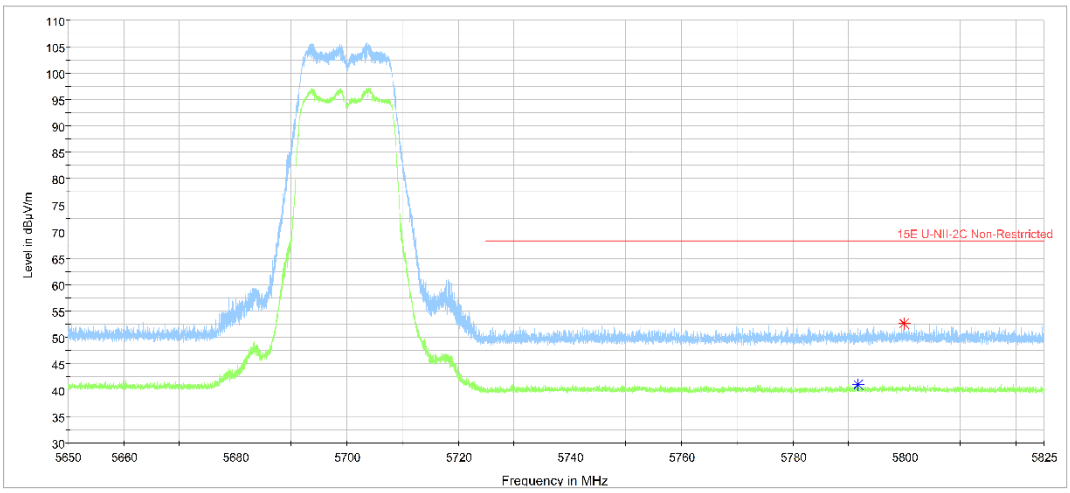


Fig. 4 Band Edges (802.11a MIMO, Ch140, 5700MHz)

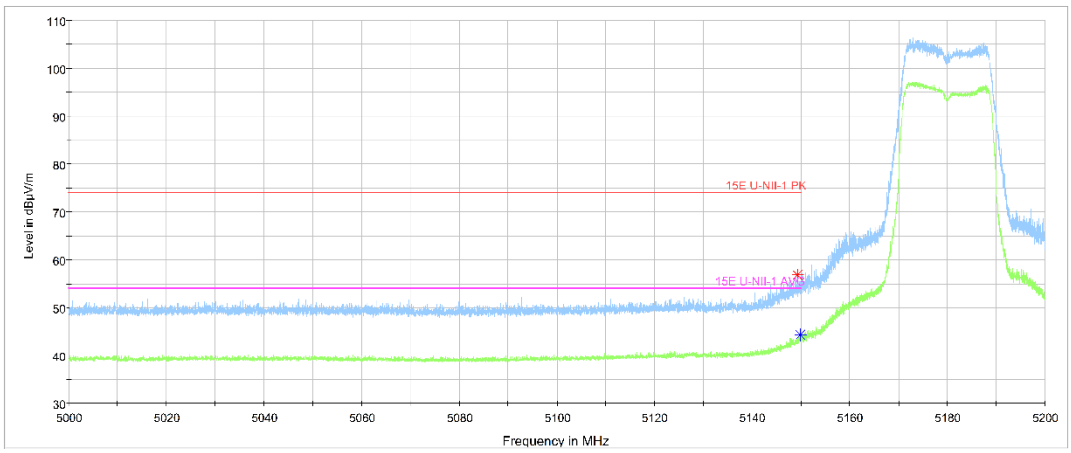


Fig. 5 Band Edges (802.11n-HT20 MIMO, Ch36, 5180MHz)

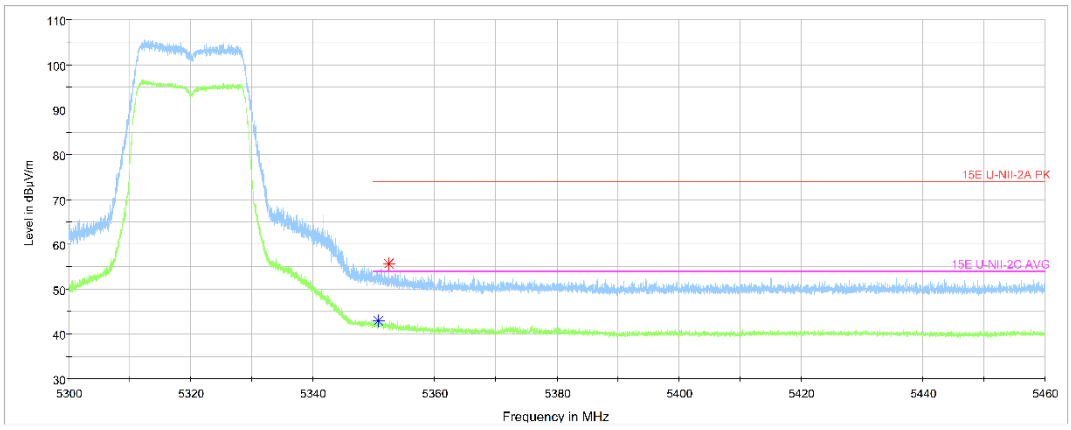


Fig. 6 Band Edges (802.11n-HT20 MIMO, Ch64, 5320MHz)

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