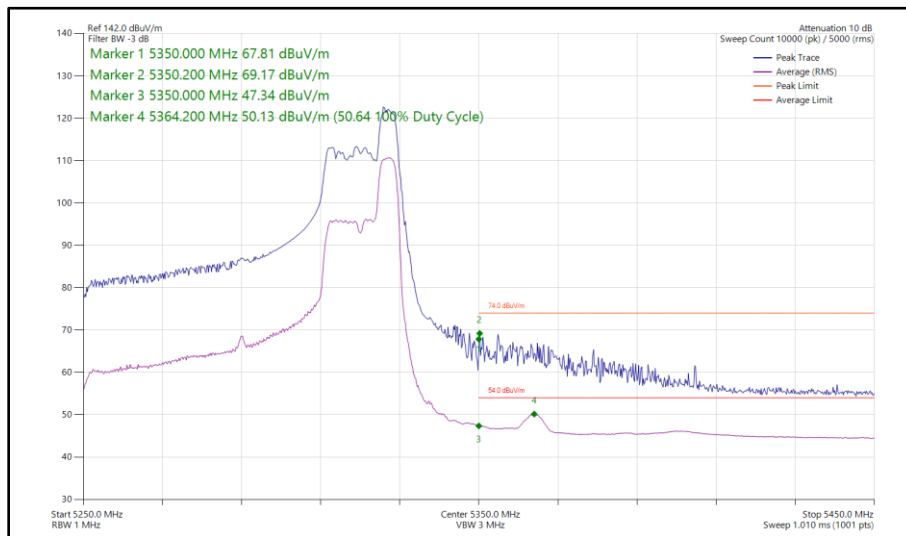
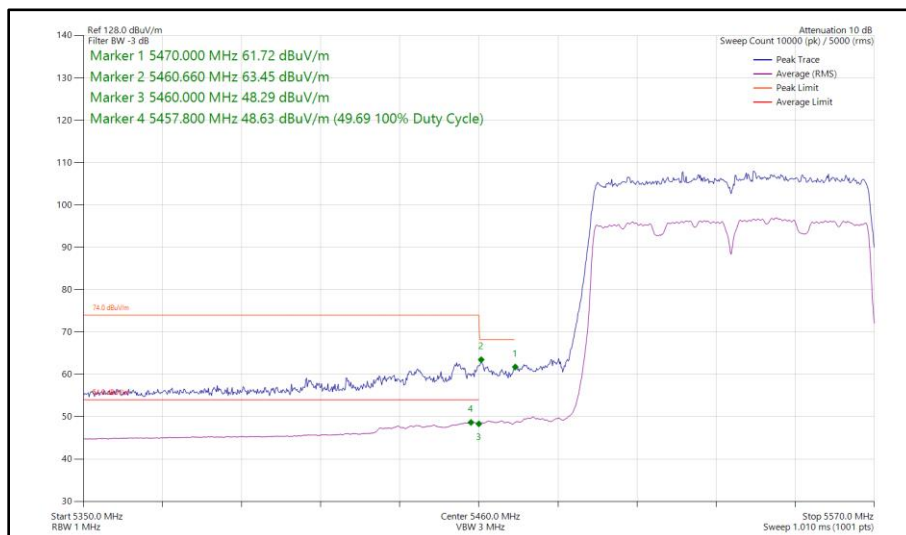
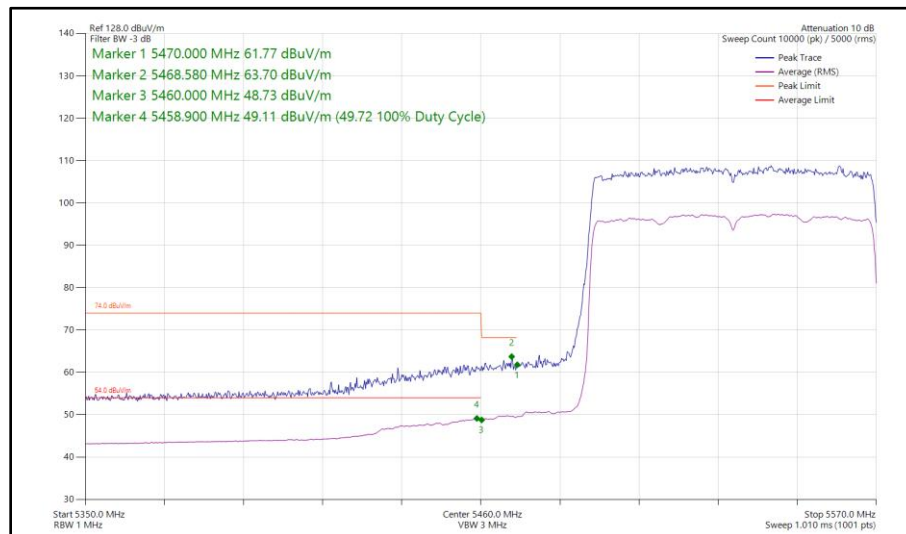




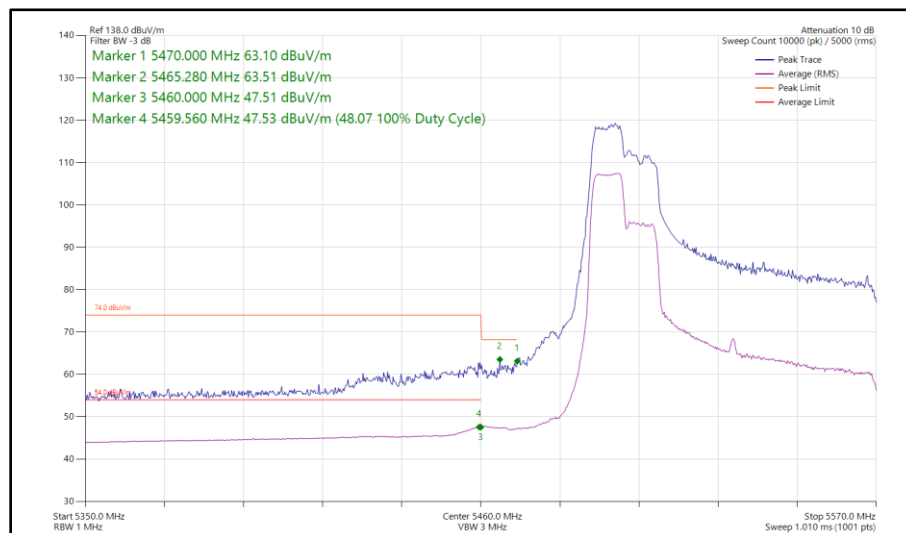
**Figure 188 - 802.11ax HE80, RU 52-52, SISO, Core 1 - 5290 MHz
Band Edge Frequency 5350 MHz**



**Figure 189 - 802.11ac VHT80, SISO, Core 1 - 5530 MHz
Band Edge Frequency 5460 MHz**



**Figure 190 - 802.11ax HE80, SU, SISO, Core 1 - 5530 MHz
Band Edge Frequency 5460 MHz**



**Figure 191 - 802.11ax HE80, RU 106-53, SISO, Core 1 - 5530 MHz
Band Edge Frequency 5460 MHz**

80 MHz Bandwidth - Core 0 - Core 1 (CDD)

Mode	Data Rate/ MCS	Resource Size	Resource Index	TX Frequency (MHz)	Band Edge Frequency (MHz)	Peak Level (dBμV/m)	Average Level (dBμV/m)
802.11ac VHT80	MCS 2x1	-	-	5210	5150	63.63	51.46
802.11ax HE80	MCS 11x1	SU	-	5210	5150	64.31	51.48
802.11ax HE80	MCS 11x1	106	53	5210	5150	69.45	49.52
802.11ac VHT80	MCS 8x1	-	-	5290	5350	63.65	51.43
802.11ax HE80	MCS 11x1	SU	-	5290	5350	63.82	51.42
802.11ax HE80	MCS 11x1	52	37	5290	5350	69.37	50.68
802.11ac VHT80	MCS 8x1	-	-	5530	5460	63.62	51.13
802.11ax HE80	MCS 2x1	SU	-	5530	5460	63.59	50.96
802.11ax HE80	MCS 11x1	52	37	5530	5460	59.58	51.43

Table 19 - CDD Restricted Band Edge Results

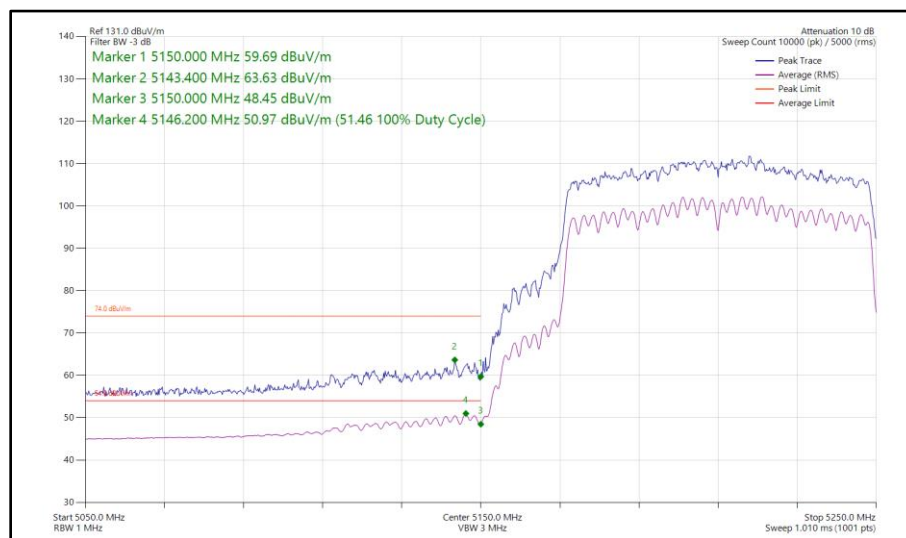
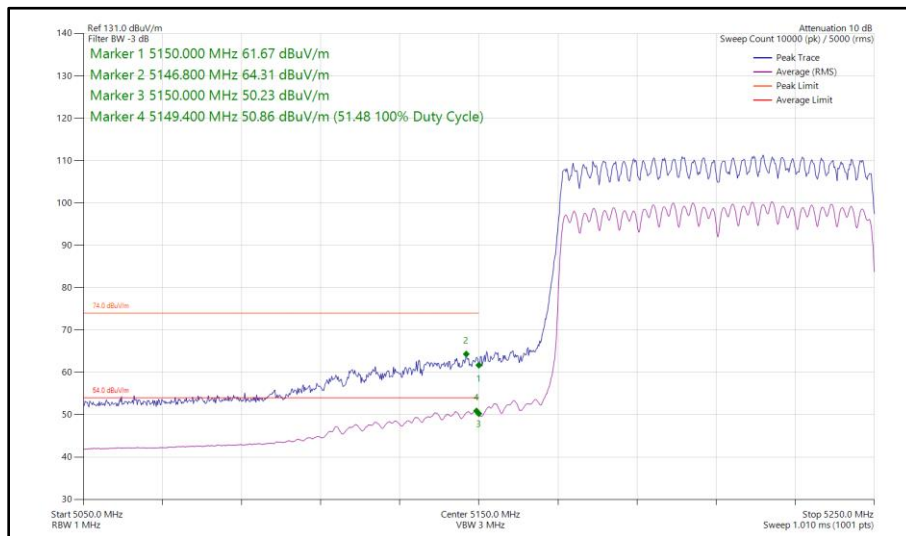
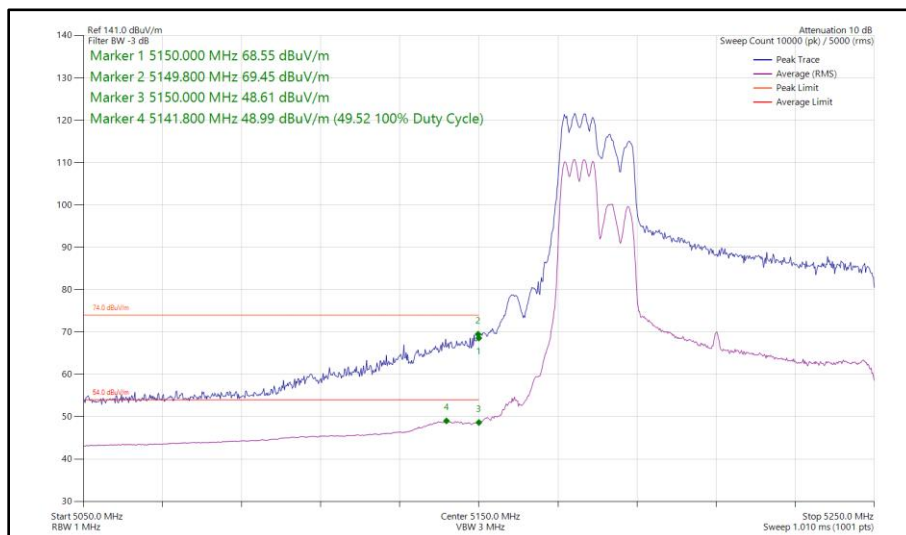


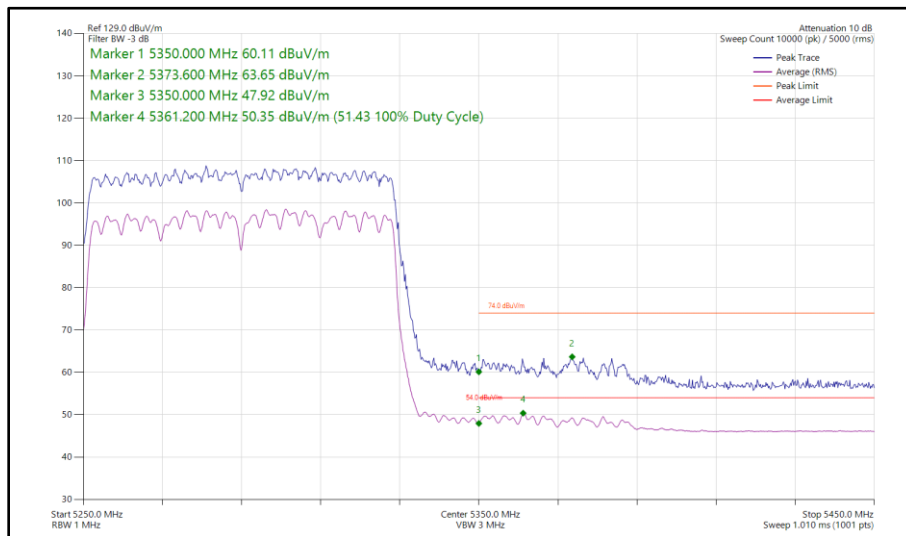
Figure 192 - 802.11ac VHT80, CDD, Core 0 - Core 1 - 5210 MHz
Band Edge Frequency 5150 MHz



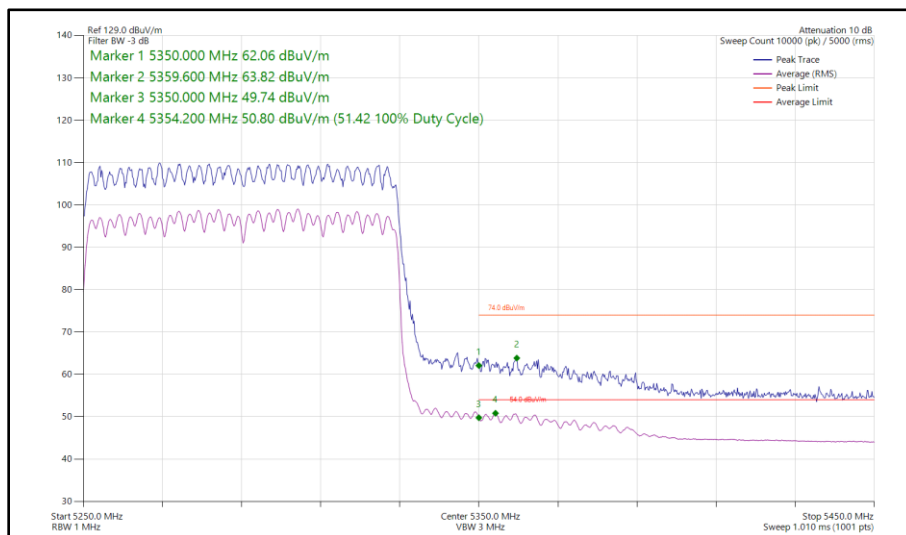
**Figure 193 - 802.11ax HE80, SU, CDD, Core 0 - Core 1 - 5210 MHz
Band Edge Frequency 5150 MHz**



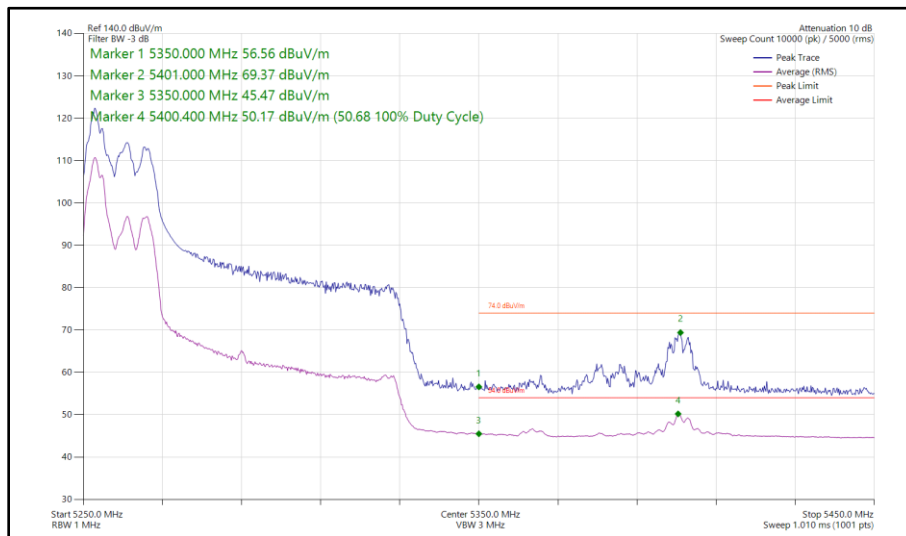
**Figure 194 - 802.11ax HE80, RU 106-53, CDD, Core 0 - Core 1 - 5210 MHz
Band Edge Frequency 5150 MHz**



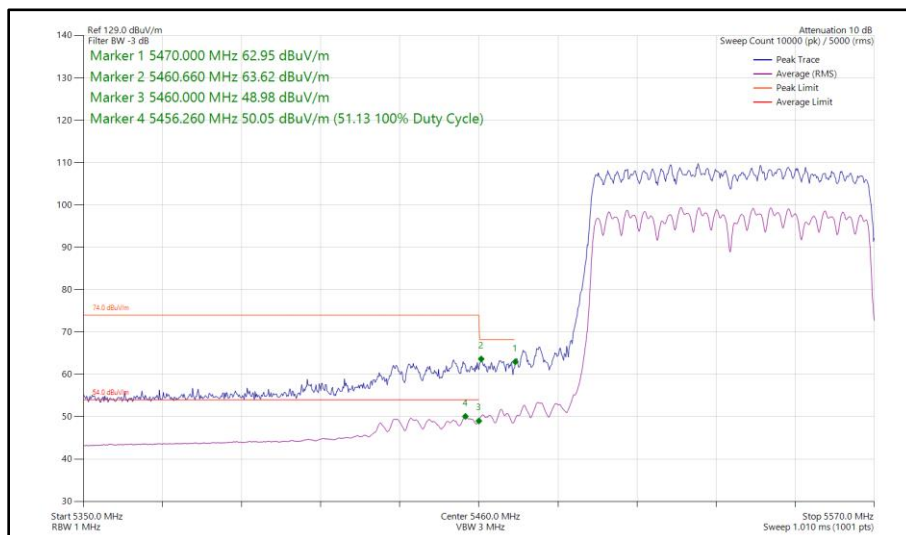
**Figure 195 - 802.11ac VHT80, CDD, Core 0 - Core 1 - 5290 MHz
Band Edge Frequency 5350 MHz**



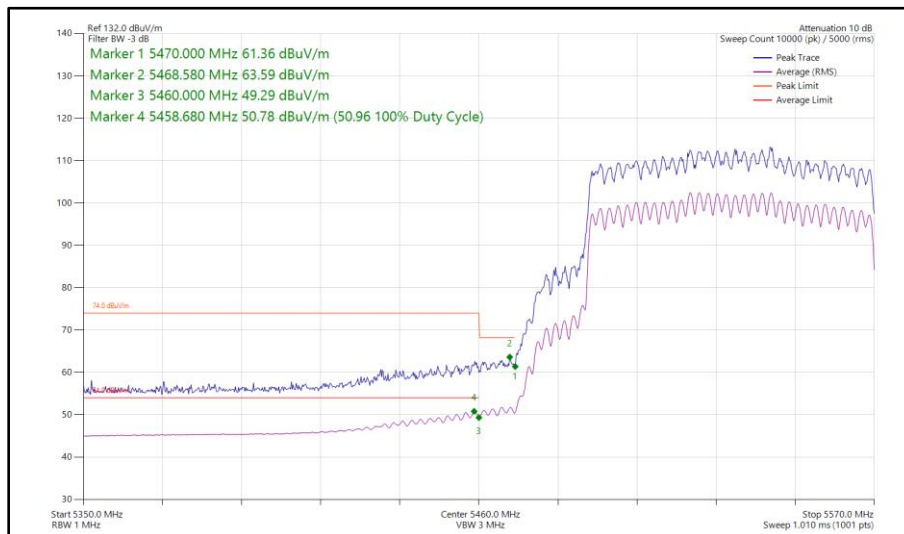
**Figure 196 - 802.11ax HE80, SU, CDD, Core 0 - Core 1 - 5290 MHz
Band Edge Frequency 5350 MHz**



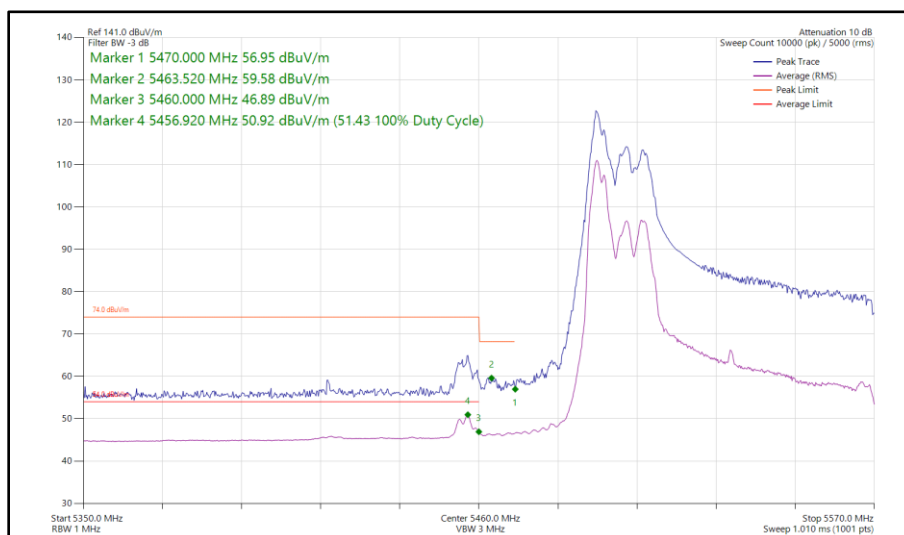
**Figure 197 - 802.11ax HE80, RU 52-37, CDD, Core 0 - Core 1 - 5290 MHz
Band Edge Frequency 5350 MHz**



**Figure 198 - 802.11ac VHT80, CDD, Core 0 - Core 1 - 5530 MHz
Band Edge Frequency 5460 MHz**



**Figure 199 - 802.11ax HE80, SU, CDD, Core 0 - Core 1 - 5530 MHz
Band Edge Frequency 5460 MHz**



**Figure 200 - 802.11ax HE80, RU 52-37, CDD, Core 0 - Core 1 - 5530 MHz
Band Edge Frequency 5460 MHz**

80 MHz Bandwidth - Core 0 - Core 1 (SDM)

Mode	Data Rate/ MCS	Resource Size	Resource Index	TX Frequency (MHz)	Band Edge Frequency (MHz)	Peak Level (dBμV/m)	Average Level (dBμV/m)
802.11ac VHT80	MCS 2x2	-	-	5210	5150	63.09	51.32
802.11ax HE80	MCS 4x2	SU	-	5210	5150	64.29	51.48
802.11ax HE80	MCS 11x2	106	53	5210	5150	69.23	49.18
802.11ac VHT80	MCS 2x2	-	-	5290	5350	62.39	51.37
802.11ax HE80	MCS 4x2	SU	-	5290	5350	63.25	51.26
802.11ax HE80	MCS 11x2	52	37	5290	5350	68.90	49.51
802.11ac VHT80	MCS 8x2	-	-	5530	5460	63.66	51.11
802.11ax HE80	MCS 11x2	SU	-	5530	5460	63.63	49.90
802.11ax HE80	MCS 11x2	106	60	5530	5460	63.52	49.24

Table 20 - SDM Restricted Band Edge Results

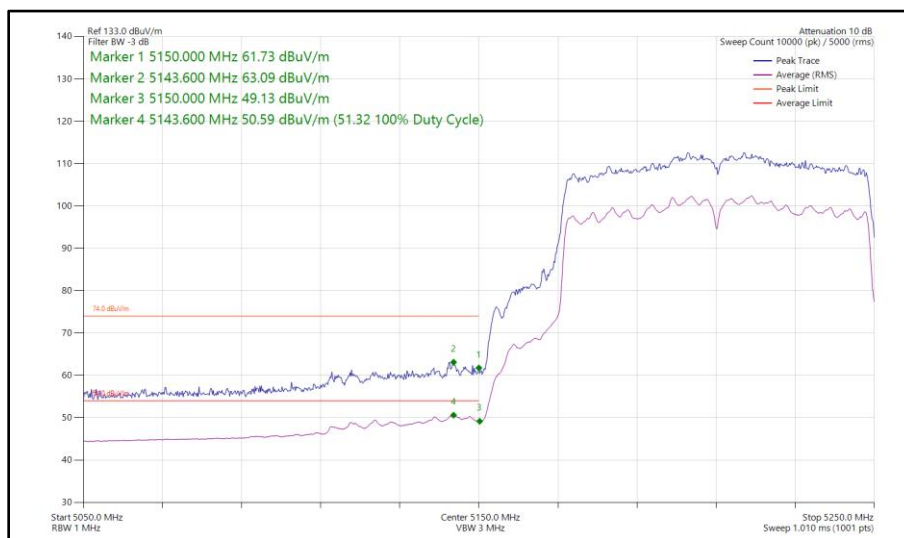
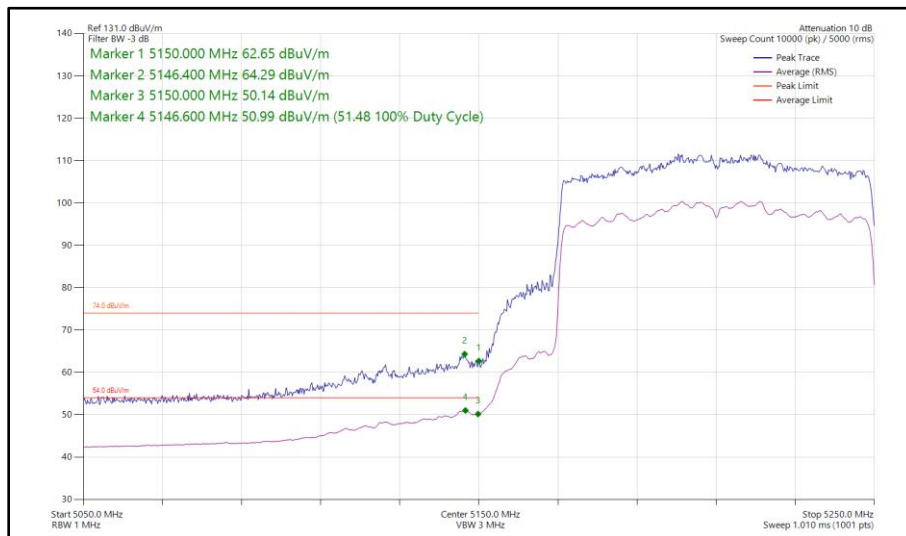
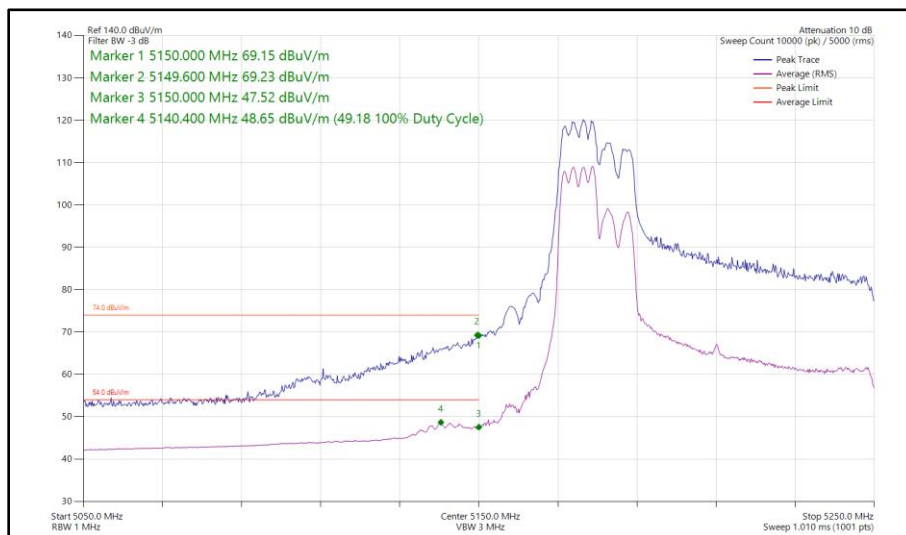


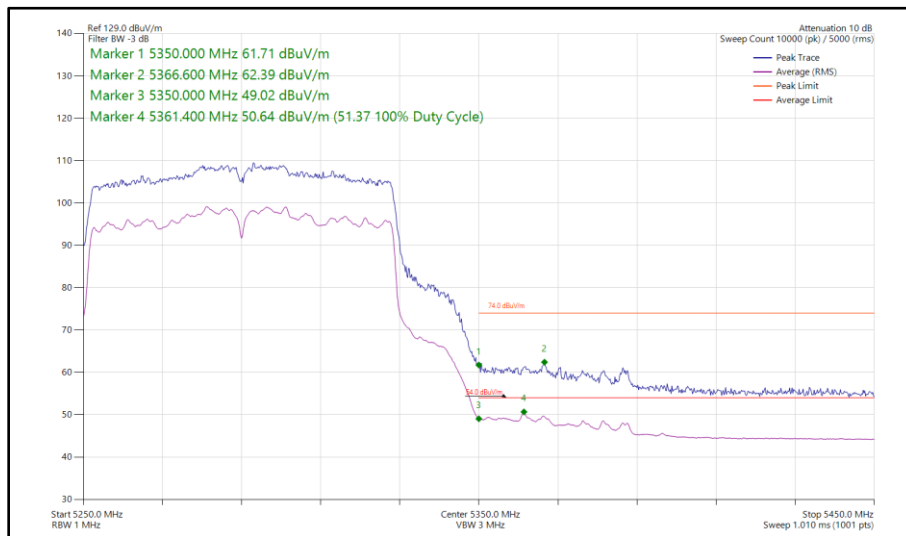
Figure 201 - 802.11ac VHT80, SDM, Core 0 - Core 1 - 5210 MHz
Band Edge Frequency 5150 MHz



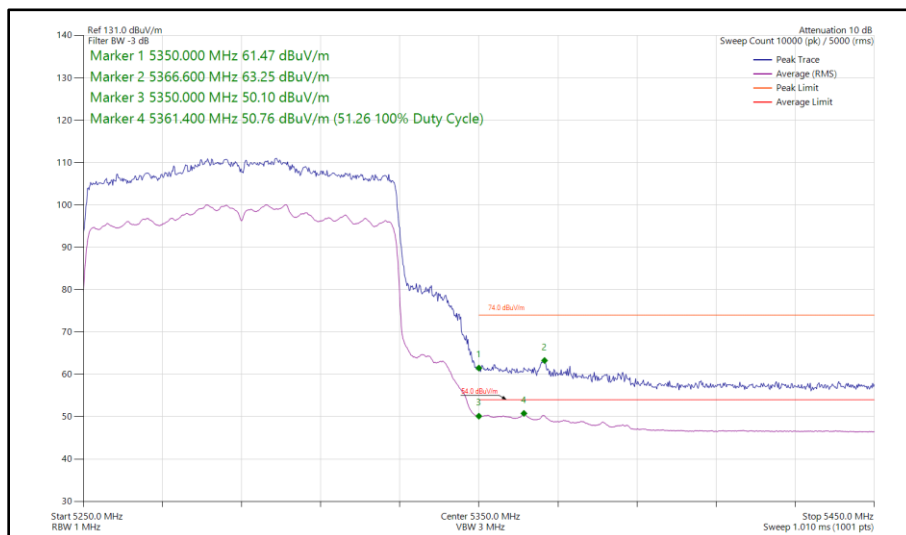
**Figure 202 - 802.11ax HE80, SU, SDM, Core 0 - Core 1 - 5210 MHz
Band Edge Frequency 5150 MHz**



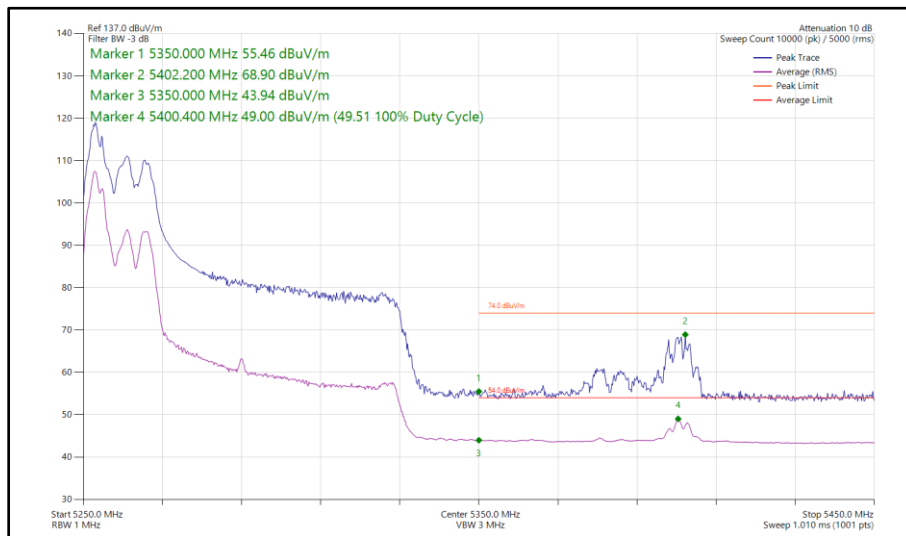
**Figure 203 - 802.11ax HE80, RU 106-53, SDM, Core 0 - Core 1 - 5210 MHz
Band Edge Frequency 5150 MHz**



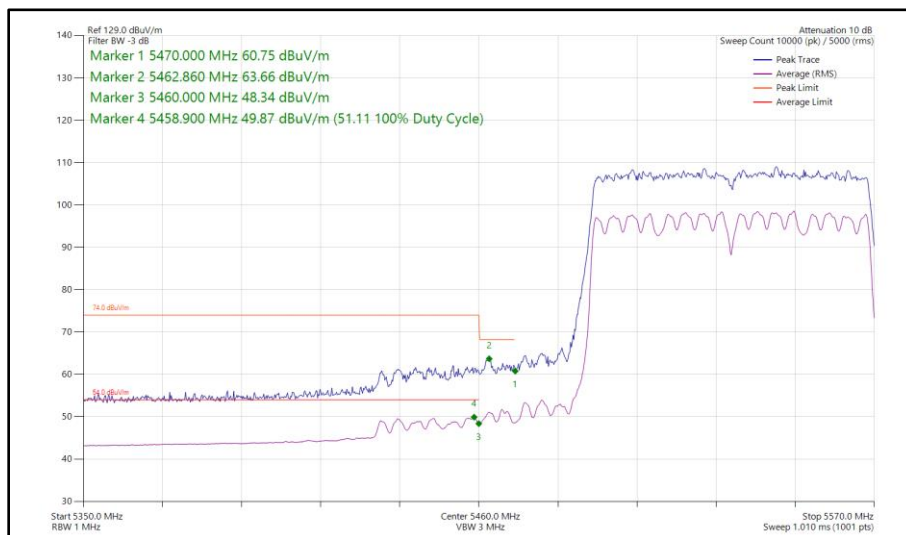
**Figure 204 - 802.11ac VHT80, SDM, Core 0 - Core 1 - 5290 MHz
Band Edge Frequency 5350 MHz**



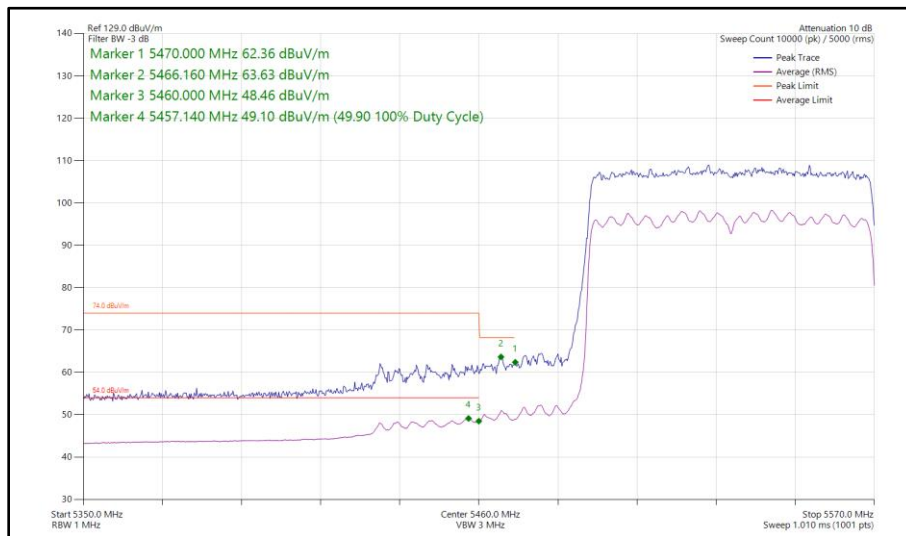
**Figure 205 - 802.11ax HE80, SU, SDM, Core 0 - Core 1 - 5290 MHz
Band Edge Frequency 5350 MHz**



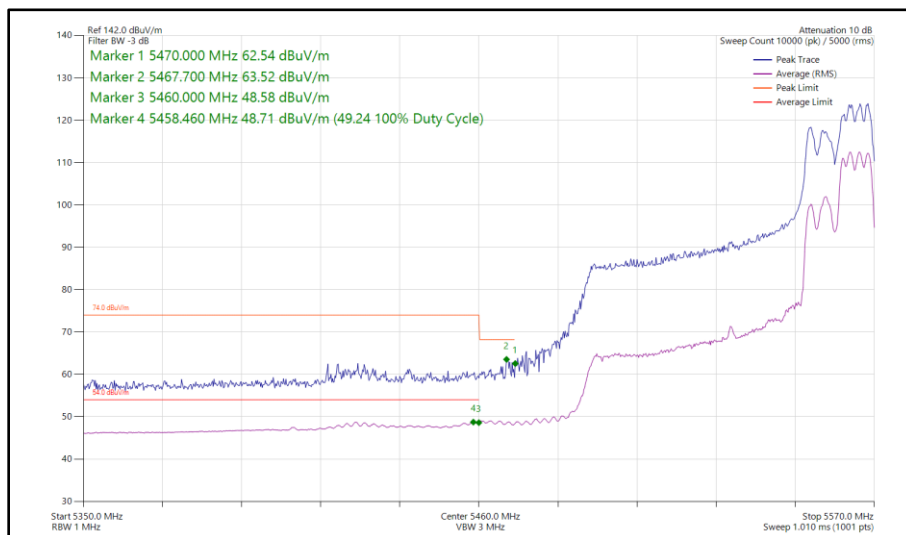
**Figure 206 - 802.11ax HE80, RU 52-37, SDM, Core 0 - Core 1 - 5290 MHz
Band Edge Frequency 5350 MHz**



**Figure 207 - 802.11ac VHT80, SDM, Core 0 - Core 1 - 5530 MHz
Band Edge Frequency 5460 MHz**



**Figure 208 - 802.11ax HE80, SU, SDM, Core 0 - Core 1 - 5530 MHz
Band Edge Frequency 5460 MHz**



**Figure 209 - 802.11ax HE80, RU 106-60, SDM, Core 0 - Core 1 - 5530 MHz
Band Edge Frequency 5460 MHz**

80 MHz Bandwidth - Core 0 - Core 1 (TxBF)

Mode	Data Rate/ MCS	Resource Size	Resource Index	TX Frequency (MHz)	Band Edge Frequency (MHz)	Peak Level (dBμV/m)	Average Level (dBμV/m)
802.11ac VHT80	MCS 8x1	-	-	5210	5150	68.15	51.48
802.11ac VHT80	MCS 4x1	-	-	5290	5350	64.73	51.39
802.11ac VHT80	MCS 8x1	-	-	5530	5460	63.62	48.29

Table 21 - TxBF Restricted Band Edge Results

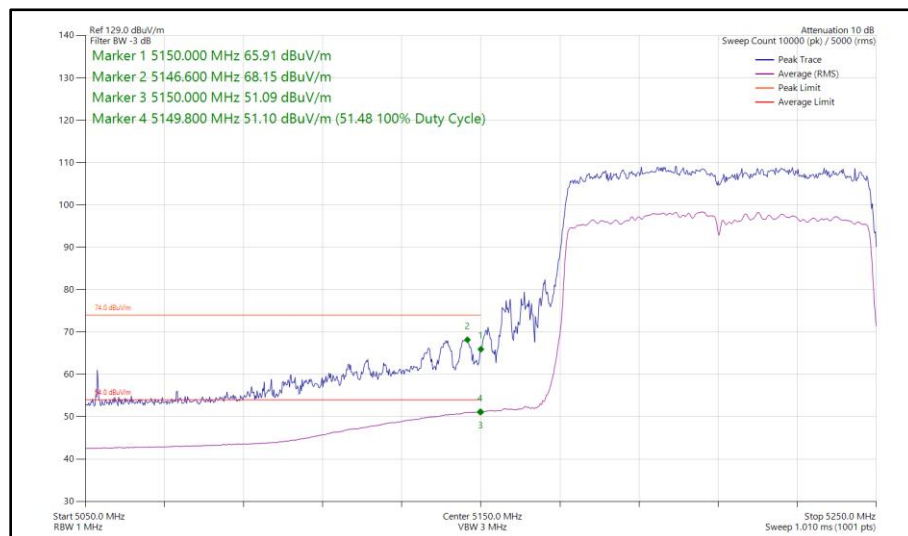


Figure 210 - 802.11ac VHT80, TxBF, Core 0 - Core 1 - 5210 MHz
Band Edge Frequency 5150 MHz

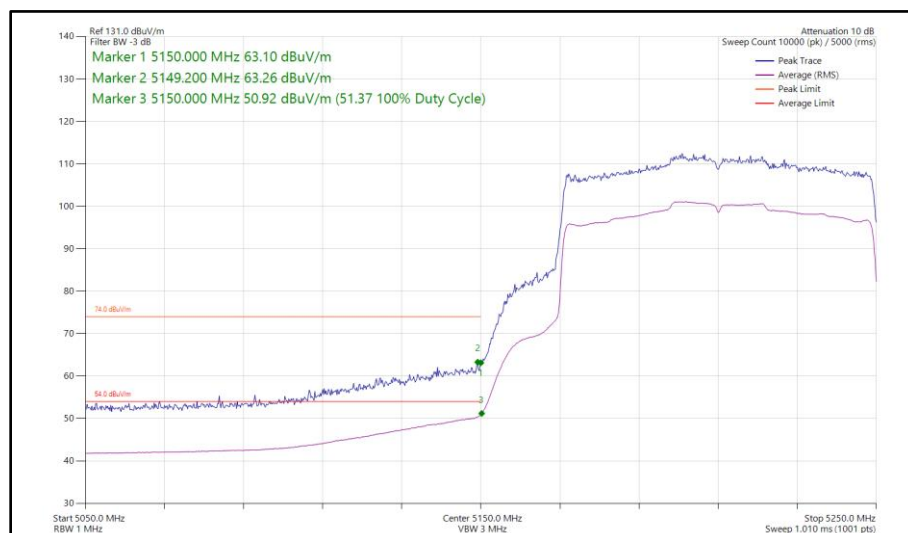


Figure 211 - 802.11ax HE80, SU, TxBF, Core 0 - Core 1 - 5210 MHz
Band Edge Frequency 5150 MHz

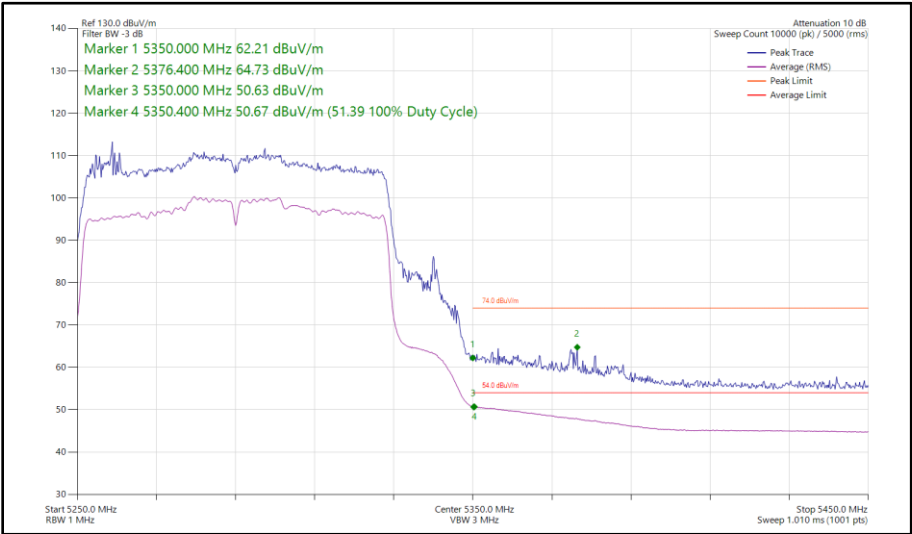


Figure 212 - 802.11ac VHT80, TxBF, Core 0 - Core 1 - 5290 MHz
Band Edge Frequency 5350 MHz

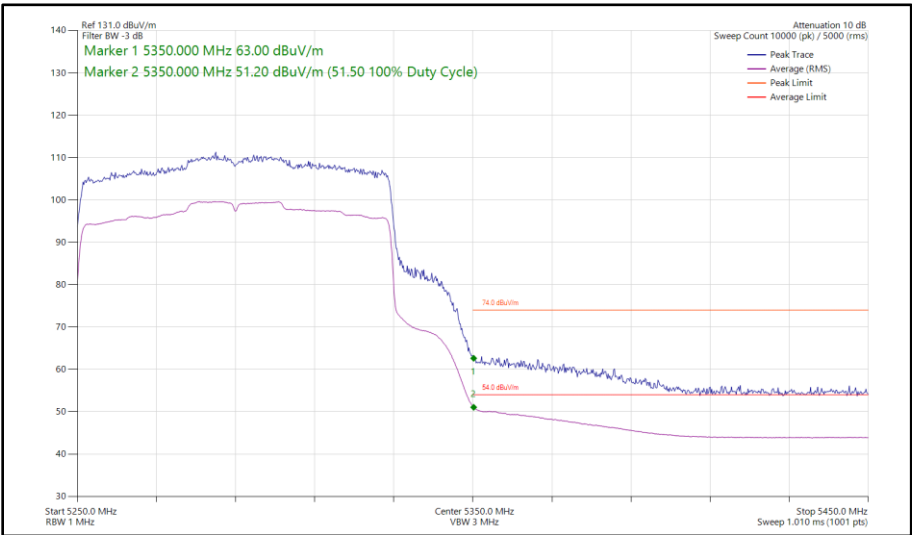
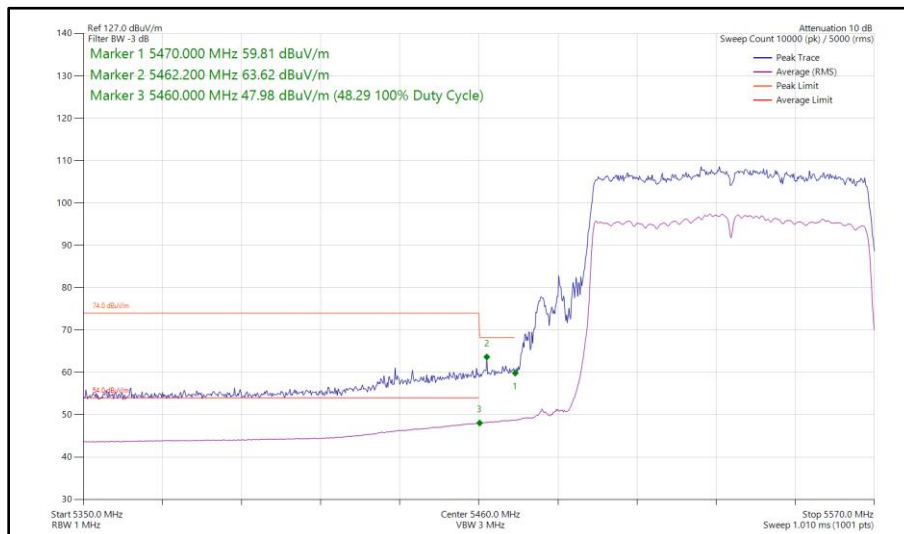
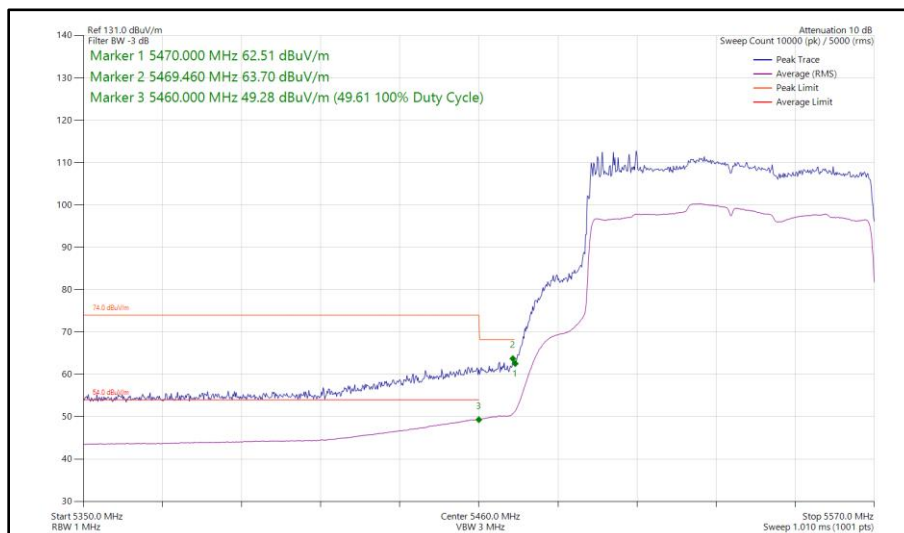


Figure 213 - 802.11ax HE80, SU, TxBF, Core 0 - Core 1 - 5290 MHz
Band Edge Frequency 5350 MHz



**Figure 214 - 802.11ac VHT80, TxBF, Core 0 - Core 1 - 5530 MHz
Band Edge Frequency 5460 MHz**

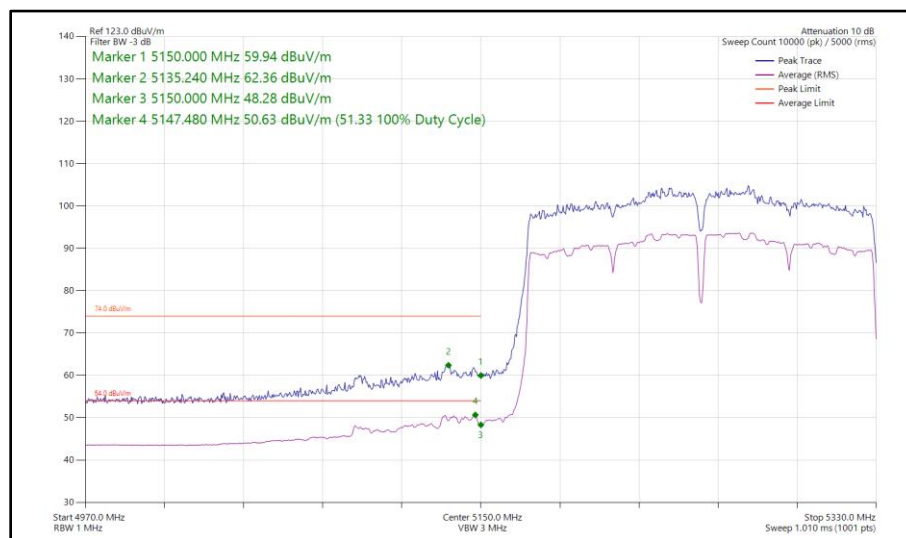


**Figure 215 - 802.11ax HE80, SU, TxBF, Core 0 - Core 1 - 5530 MHz
Band Edge Frequency 5460 MHz**

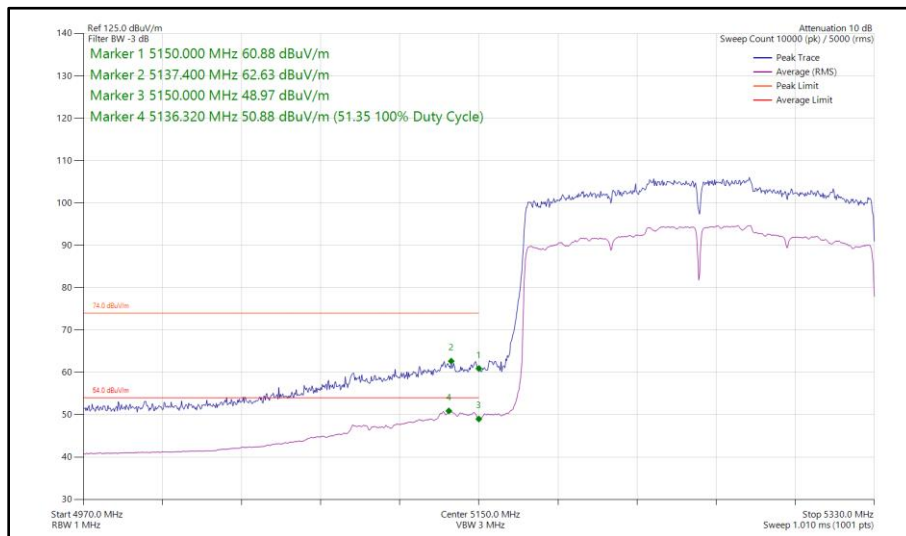
160 MHz Bandwidth - Core 0 (SISO)

Mode	Data Rate/ MCS	Resource Size	Resource Index	TX Frequency (MHz)	Band Edge Frequency (MHz)	Peak Level (dBμV/m)	Average Level (dBμV/m)
802.11ac VHT160	MCS 2x1	-	-	5250	5150	62.36	51.33
802.11ax HE160	MCS 4x1	SU	-	5250	5150	62.63	51.35
802.11ax HE160	MCS 11x1	106	53P	5250	5150	69.35	47.94
802.11ac VHT160	MCS 4x1	-	-	5250	5350	62.96	51.18
802.11ax HE160	MCS 11x1	SU	-	5250	5350	64.79	51.47
802.11ax HE160	MCS 11x1	106	60S	5250	5350	68.93	48.86
802.11ac VHT160	MCS 8x1	-	-	5570	5460	62.37	51.47
802.11ax HE160	MCS 4x1	SU	-	5570	5460	63.41	51.44
802.11ax HE160	MCS 11x1	106	53P	5570	5460	62.31	47.03

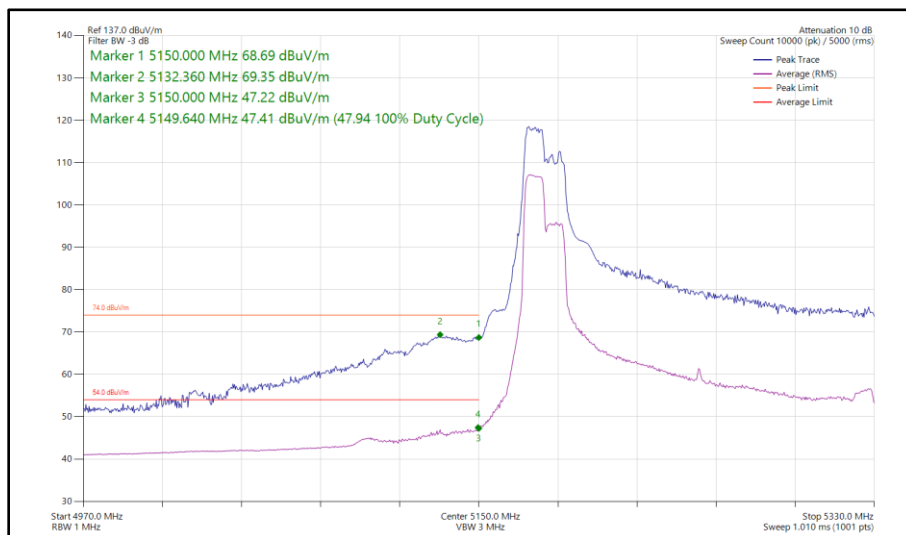
Table 22 - SISO Restricted Band Edge Results



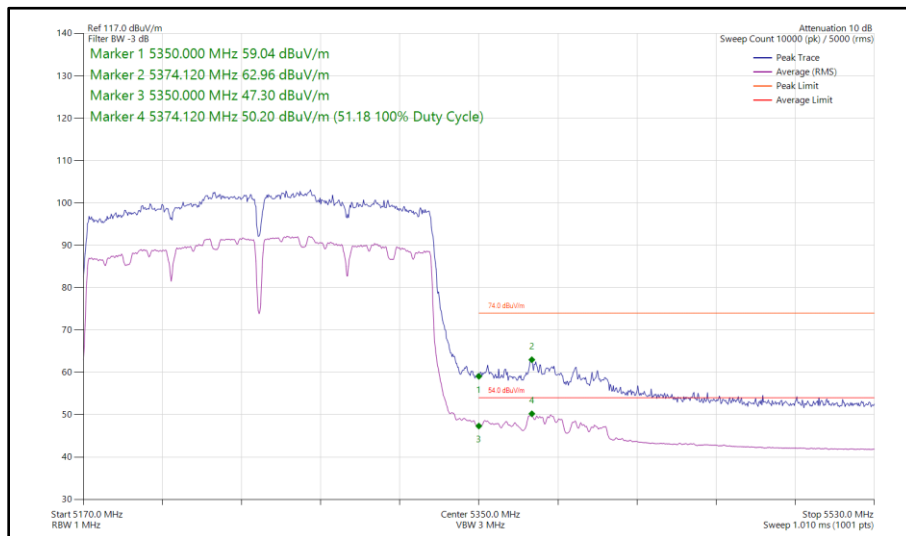
**Figure 216 - 802.11ac VHT160, SISO, Core 0 - 5250 MHz
Band Edge Frequency 5150 MHz**



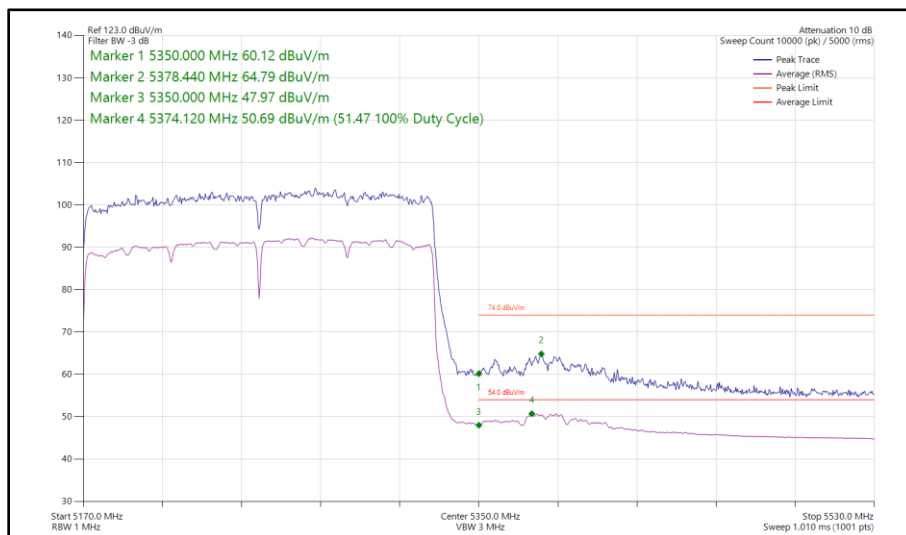
**Figure 217 - 802.11ax HE160, SU, SISO, Core 0 - 5250 MHz
Band Edge Frequency 5150 MHz**



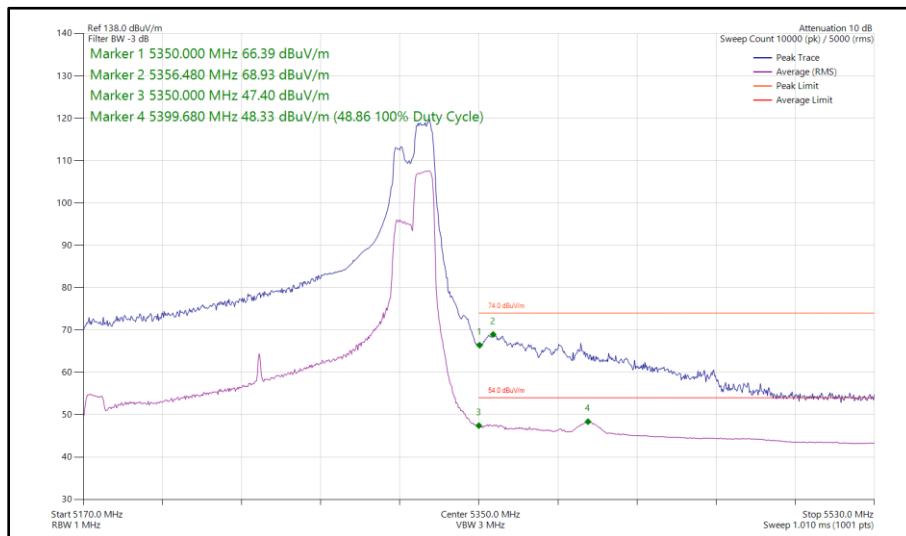
**Figure 218 - 802.11ax HE160, RU 106-53P, SISO, Core 0 - 5250 MHz
Band Edge Frequency 5150 MHz**



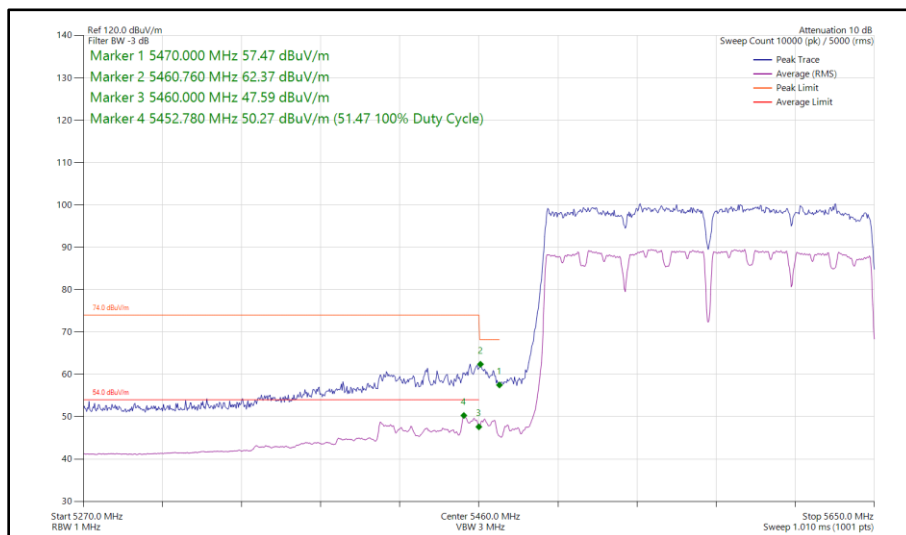
**Figure 219 - 802.11ac VHT160, SISO, Core 0 - 5250 MHz
Band Edge Frequency 5350 MHz**



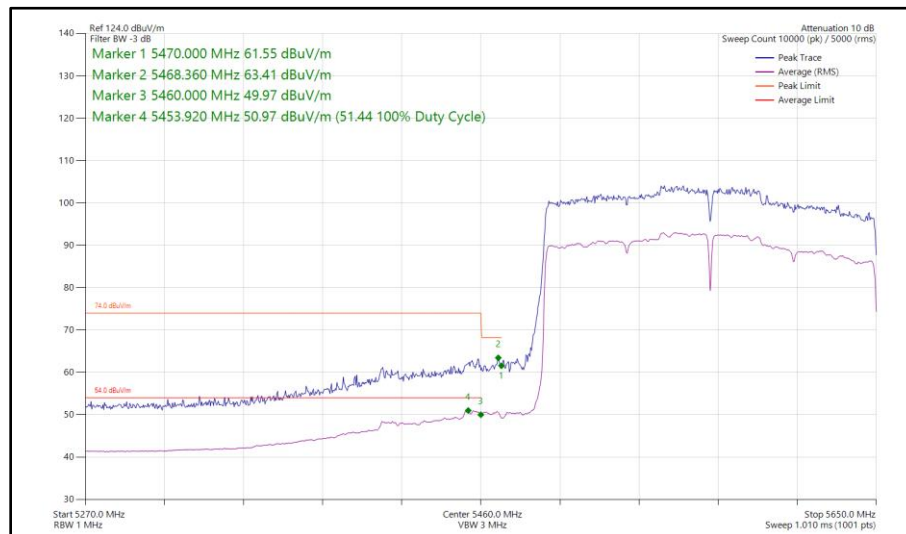
**Figure 220 - 802.11ax HE160, SU, SISO, Core 0 - 5250 MHz
Band Edge Frequency 5350 MHz**



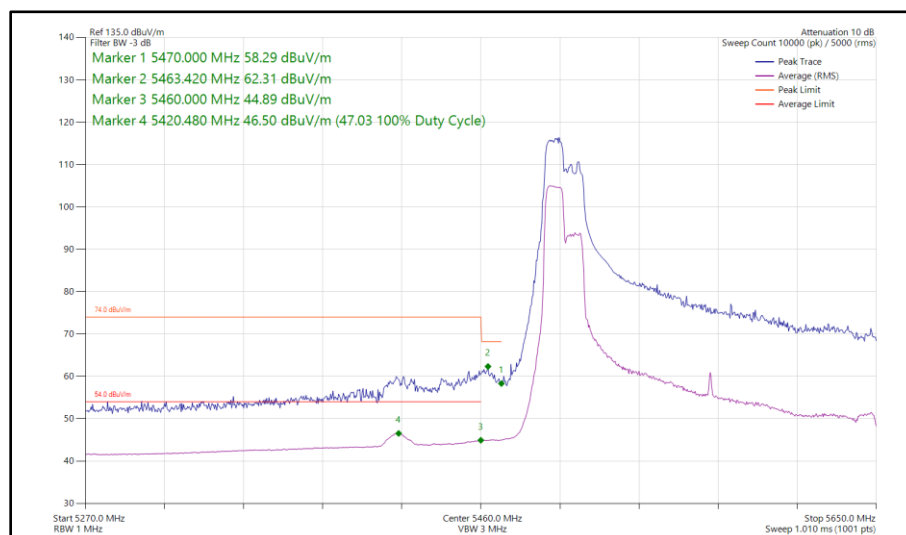
**Figure 221 - 802.11ax HE160, RU 106-60S, SISO, Core 0 - 5250 MHz
Band Edge Frequency 5350 MHz**



**Figure 222 - 802.11ac VHT160, SISO, Core 0 - 5570 MHz
Band Edge Frequency 5460 MHz**



**Figure 223 - 802.11ax HE160, SU, SISO, Core 0 - 5570 MHz
Band Edge Frequency 5460 MHz**

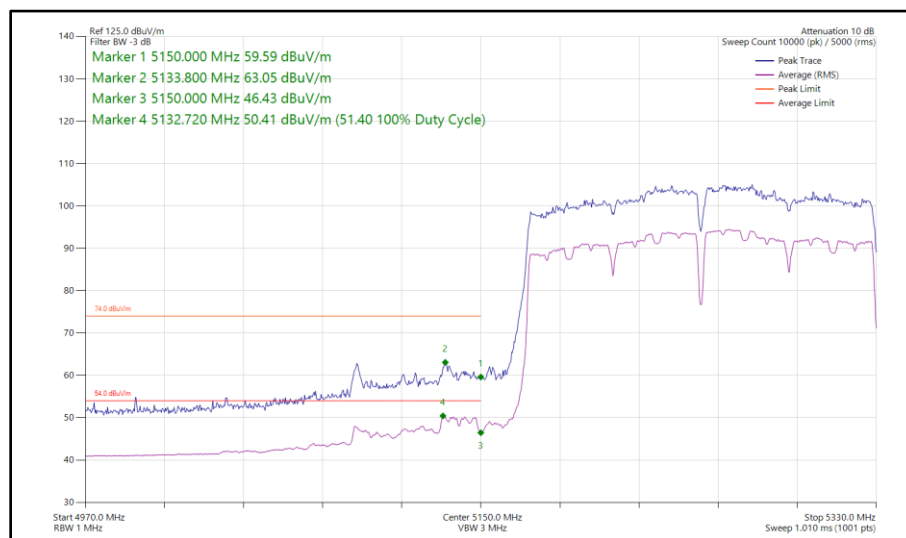


**Figure 224 - 802.11ax HE160, RU 106-53P, SISO, Core 0 - 5570 MHz
Band Edge Frequency 5460 MHz**

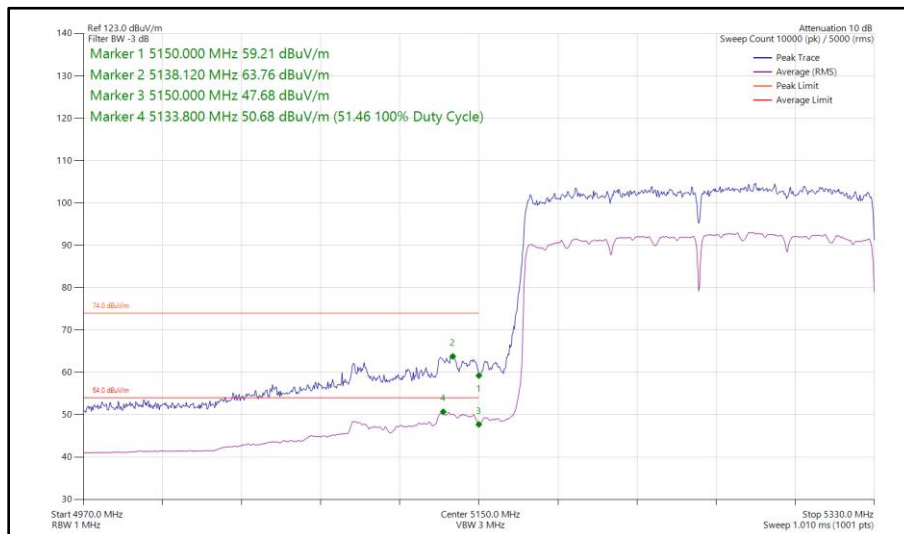
160 MHz Bandwidth - Core 1 (SISO)

Mode	Data Rate/ MCS	Resource Size	Resource Index	TX Frequency (MHz)	Band Edge Frequency (MHz)	Peak Level (dBμV/m)	Average Level (dBμV/m)
802.11ac VHT160	MCS 4x1	-	-	5250	5150	63.05	51.40
802.11ax HE160	MCS 11x1	SU	-	5250	5150	63.76	51.46
802.11ax HE160	MCS 11x1	106	53P	5250	5150	69.05	48.66
802.11ac VHT160	MCS 4x1	-	-	5250	5350	63.43	51.28
802.11ax HE160	MCS 11x1	SU	-	5250	5350	65.27	51.42
802.11ax HE160	MCS 11x1	52	52S	5250	5350	66.21	51.20
802.11ac VHT160	MCS 8x1	-	-	5570	5460	62.80	51.26
802.11ax HE160	MCS 11x1	SU	-	5570	5460	63.63	51.41
802.11ax HE160	MCS 11x1	52	37P	5570	5460	63.46	46.57

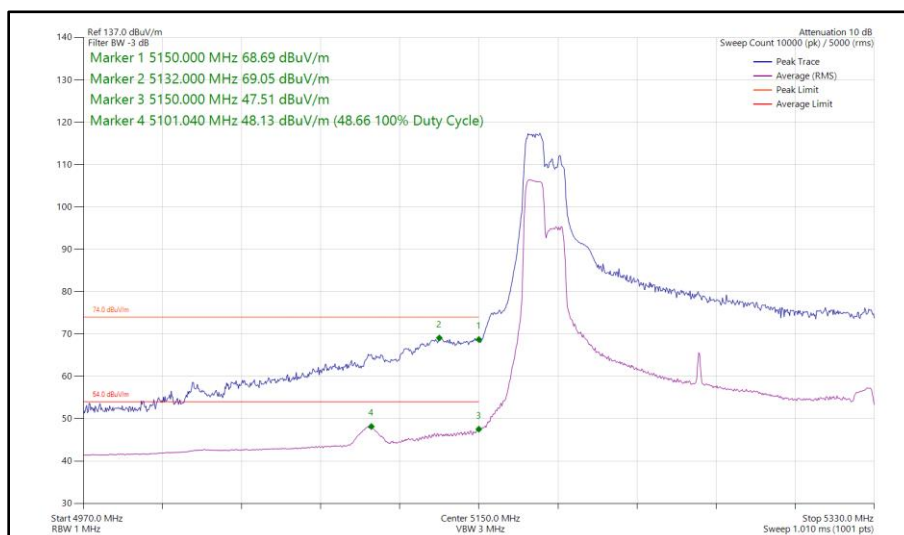
Table 23 - SISO Restricted Band Edge Results



**Figure 225 - 802.11ac VHT160, SISO, Core 1 - 5250 MHz
Band Edge Frequency 5150 MHz**



**Figure 226 - 802.11ax HE160, SU, SISO, Core 1 - 5250 MHz
Band Edge Frequency 5150 MHz**



**Figure 227 - 802.11ax HE160, RU 106-53P, SISO, Core 1 - 5250 MHz
Band Edge Frequency 5150 MHz**

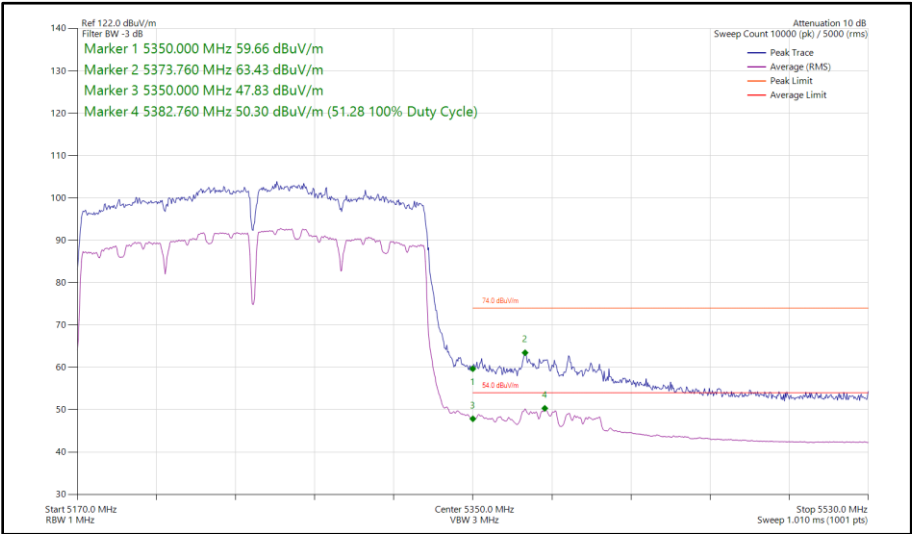


Figure 228 - 802.11ac VHT160, SISO, Core 1 - 5250 MHz
Band Edge Frequency 5350 MHz

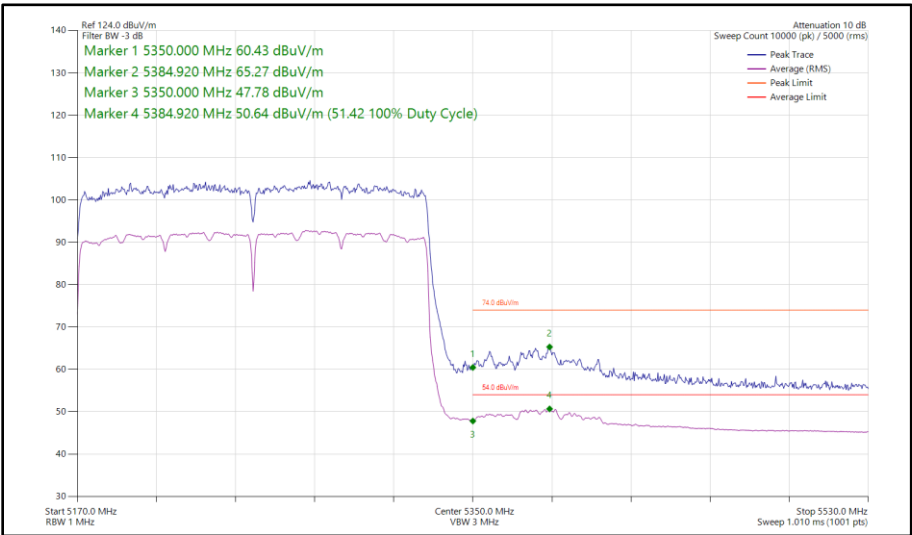
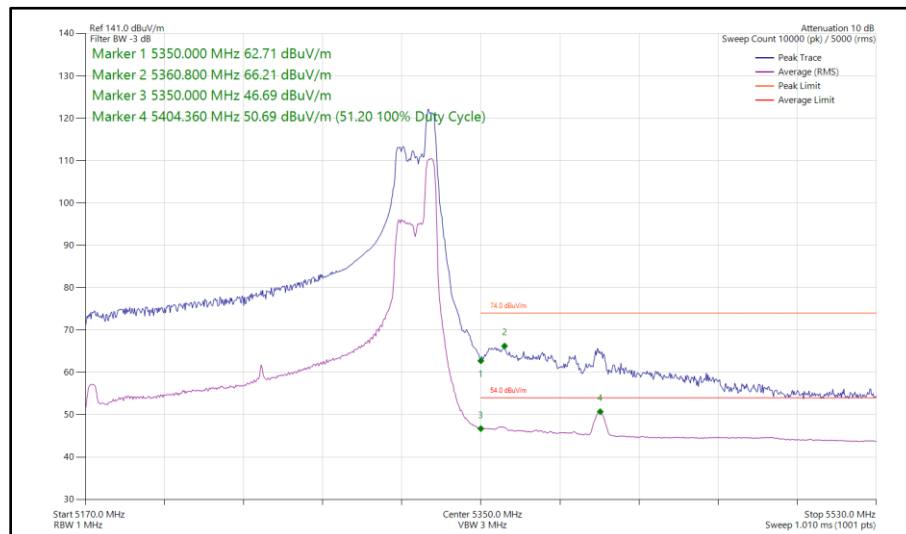
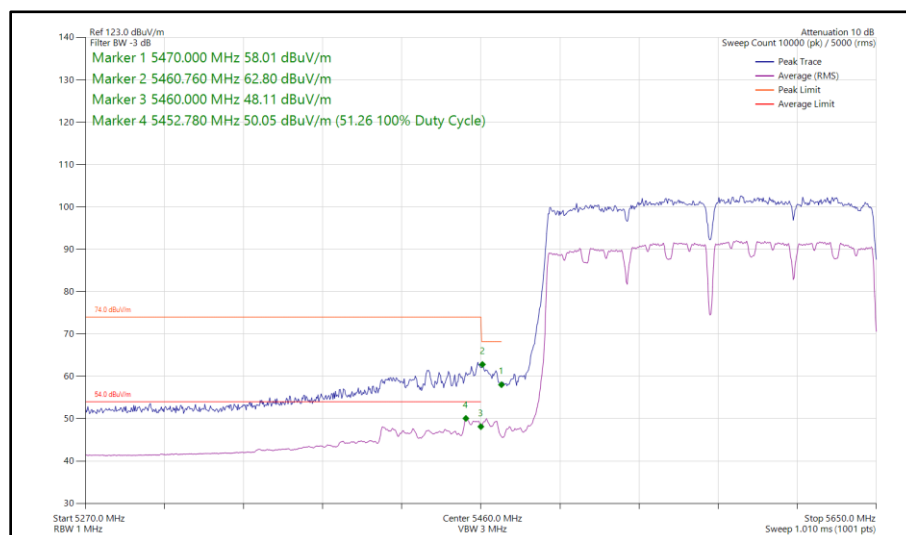


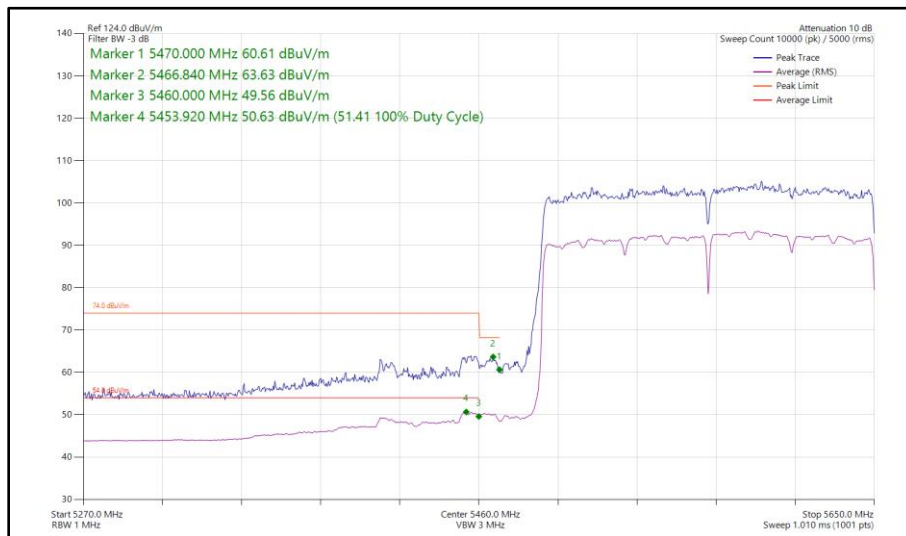
Figure 229 - 802.11ax HE160, SU, SISO, Core 1 - 5250 MHz
Band Edge Frequency 5350 MHz



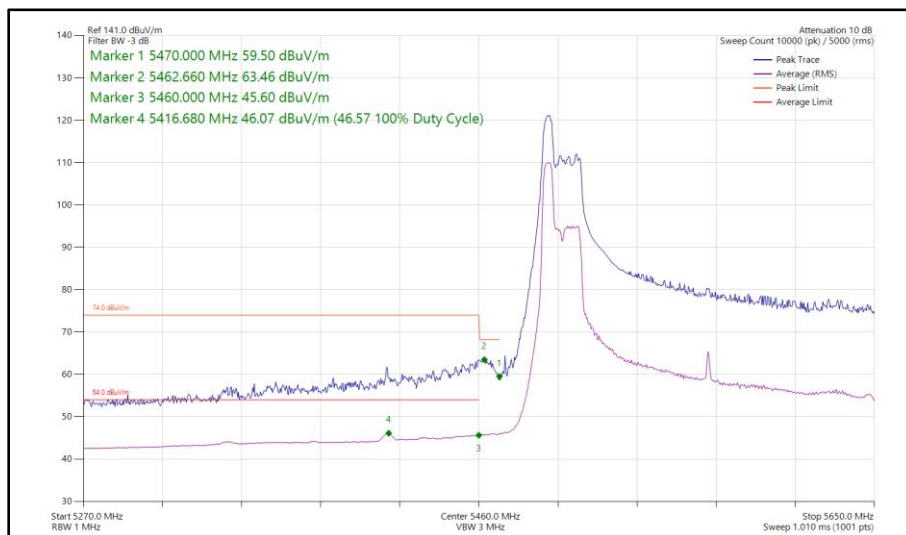
**Figure 230 - 802.11ax HE160, RU 52-52S, SISO, Core 1 - 5250 MHz
Band Edge Frequency 5350 MHz**



**Figure 231 - 802.11ac VHT160, SISO, Core 1 - 5570 MHz
Band Edge Frequency 5460 MHz**



**Figure 232 - 802.11ax HE160, SU, SISO, Core 1 - 5570 MHz
Band Edge Frequency 5460 MHz**

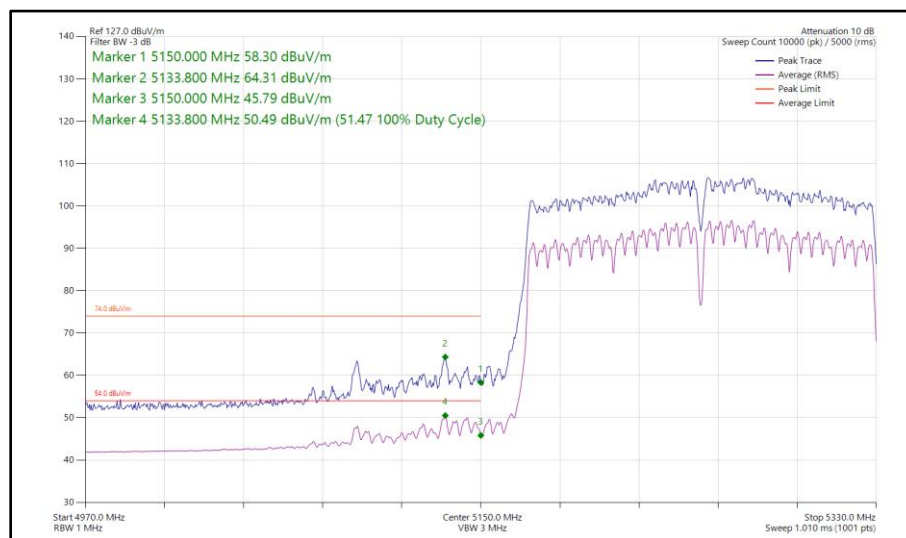


**Figure 233 - 802.11ax HE160, RU 52-37P, SISO, Core 1 - 5570 MHz
Band Edge Frequency 5460 MHz**

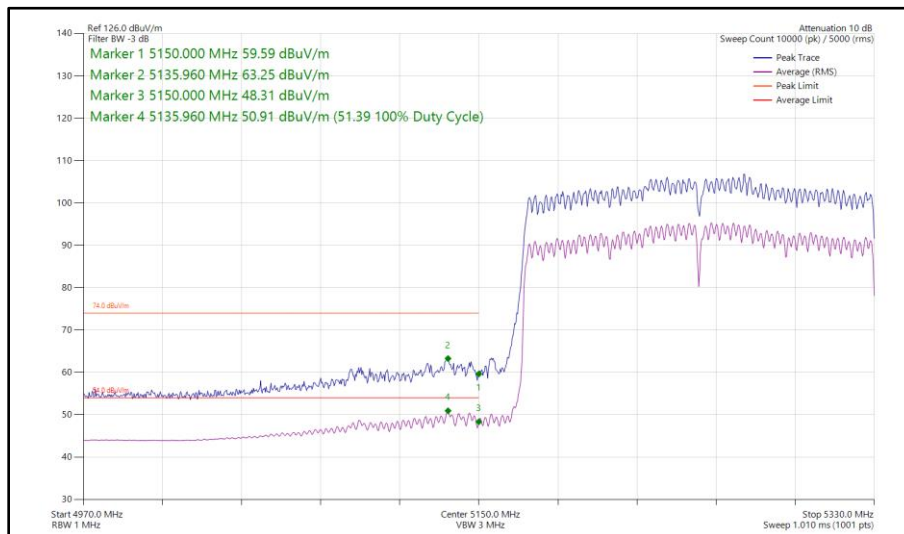
160 MHz Bandwidth - Core 0 - Core 1 (CDD)

Mode	Data Rate/ MCS	Resource Size	Resource Index	TX Frequency (MHz)	Band Edge Frequency (MHz)	Peak Level (dBμV/m)	Average Level (dBμV/m)
802.11ac VHT160	MCS 4x1	-	-	5250	5150	64.31	51.47
802.11ax HE160	MCS 4x1	SU	-	5250	5150	63.25	51.39
802.11ax HE160	MCS 11x1	52	37P	5250	5150	67.49	51.38
802.11ac VHT160	MCS 2x1	-	-	5250	5350	62.48	51.50
802.11ax HE160	MCS 4x1	SU	-	5250	5350	63.32	51.37
802.11ax HE160	MCS 11x1	106	60S	5250	5350	64.44	51.44
802.11ac VHT160	MCS 2x1	-	-	5570	5460	62.10	51.37
802.11ax HE160	MCS 2x1	SU	-	5570	5460	62.82	51.48
802.11ax HE160	MCS 11x1	106	53P	5570	5460	61.03	51.41

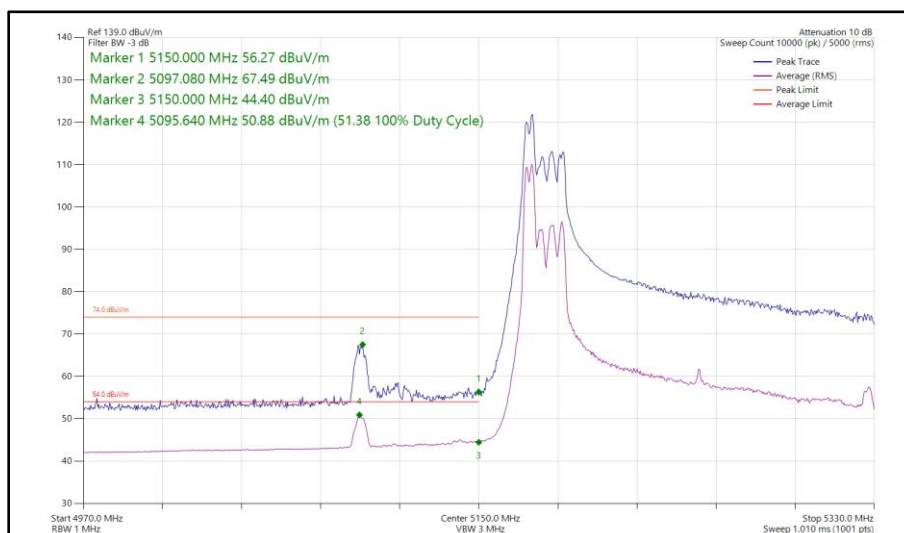
Table 24 - CDD Restricted Band Edge Results



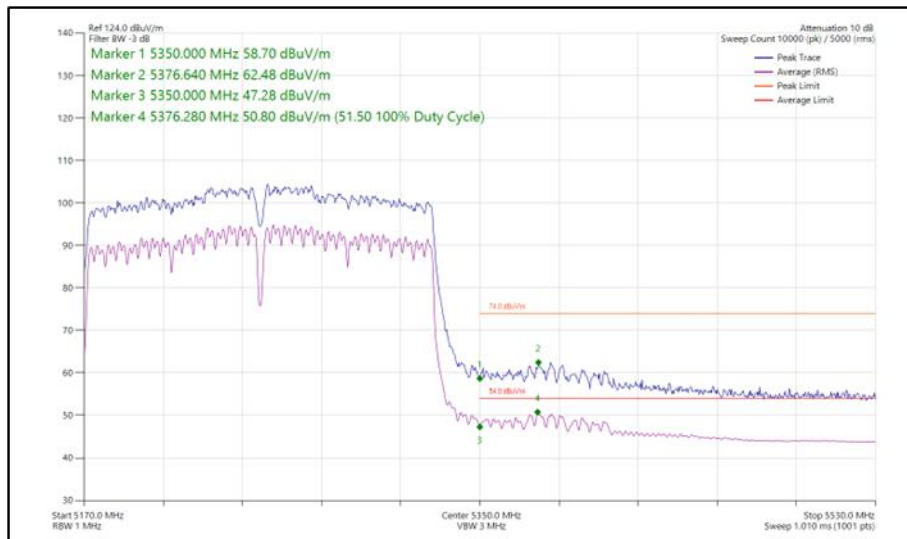
**Figure 234 - 802.11ac VHT160, CDD, Core 0 - Core 1 - 5250 MHz
Band Edge Frequency 5150 MHz**



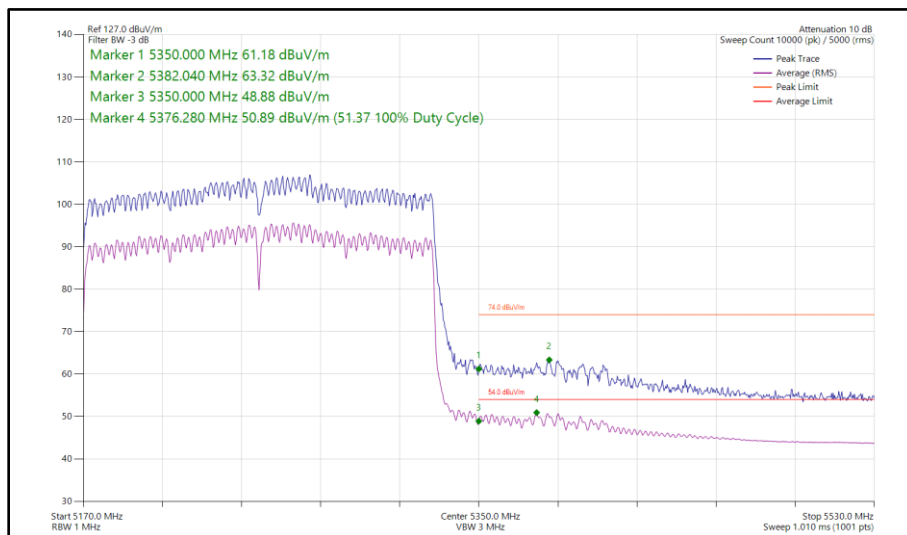
**Figure 235 - 802.11ax HE160, SU, CDD, Core 0 - Core 1 - 5250 MHz
Band Edge Frequency 5150 MHz**



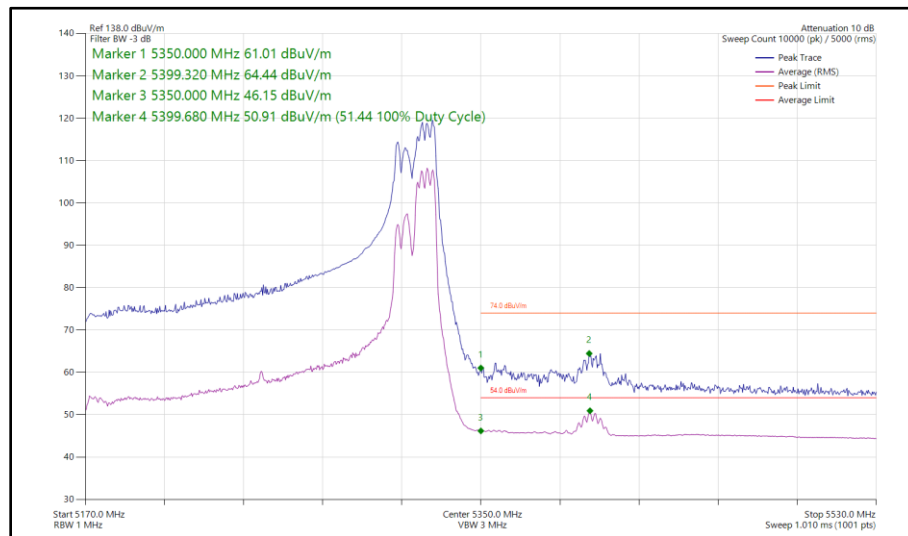
**Figure 236 - 802.11ax HE160, RU 52-37P, CDD, Core 0 - Core 1 - 5250 MHz
Band Edge Frequency 5150 MHz**



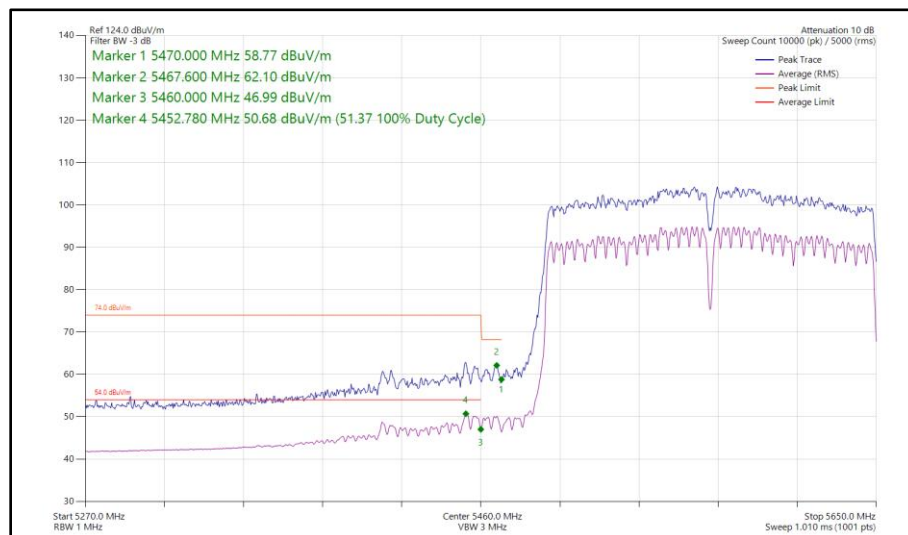
**Figure 237 - 802.11ac VHT160, CDD, Core 0 - Core 1 - 5250 MHz
Band Edge Frequency 5350 MHz**



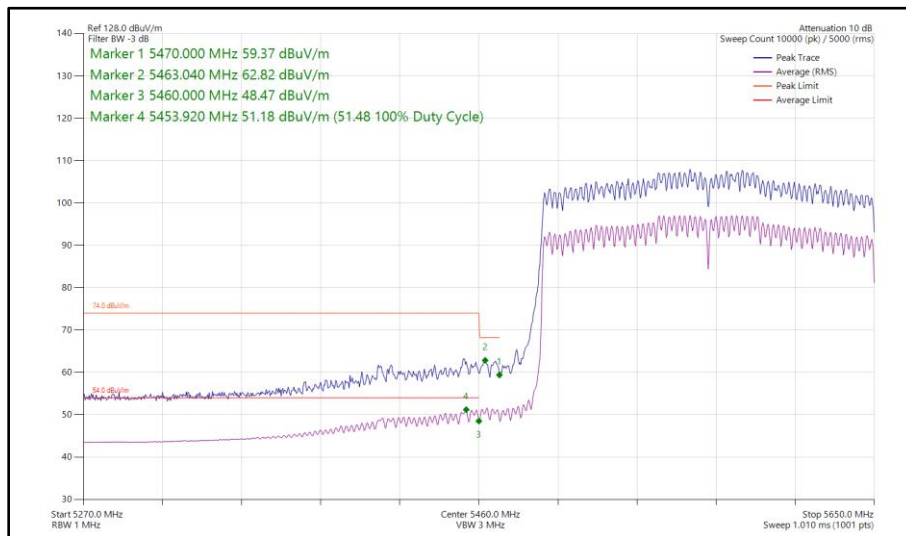
**Figure 238 - 802.11ax HE160, SU, CDD, Core 0 - Core 1 - 5250 MHz
Band Edge Frequency 5350 MHz**



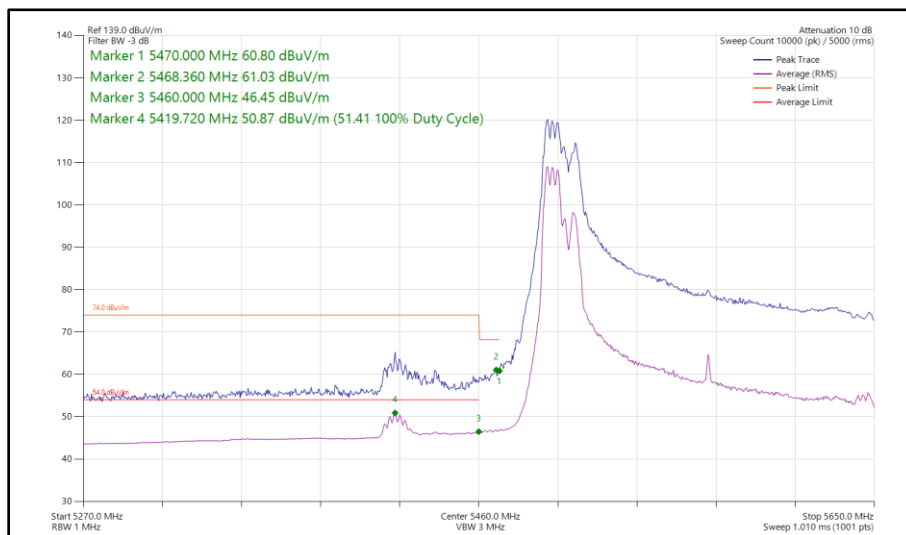
**Figure 239 - 802.11ax HE160, RU 106-60S, CDD, Core 0 - Core 1 - 5250 MHz
Band Edge Frequency 5350 MHz**



**Figure 240 - 802.11ac VHT160, CDD, Core 0 - Core 1 - 5570 MHz
Band Edge Frequency 5460 MHz**



**Figure 241 - 802.11ax HE160, SU, CDD, Core 0 - Core 1 - 5570 MHz
Band Edge Frequency 5460 MHz**

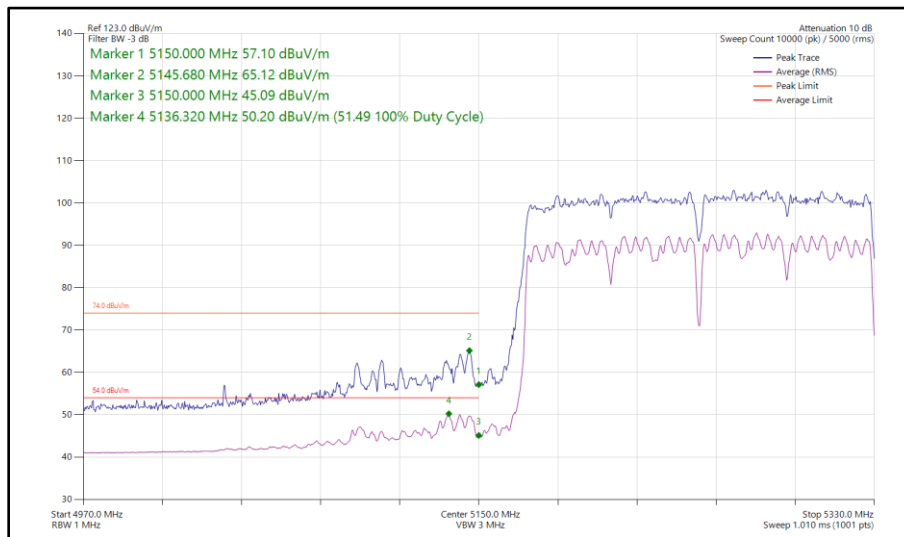


**Figure 242 - 802.11ax HE160, RU 106-53P, CDD, Core 0 - Core 1 - 5570 MHz
Band Edge Frequency 5460 MHz**

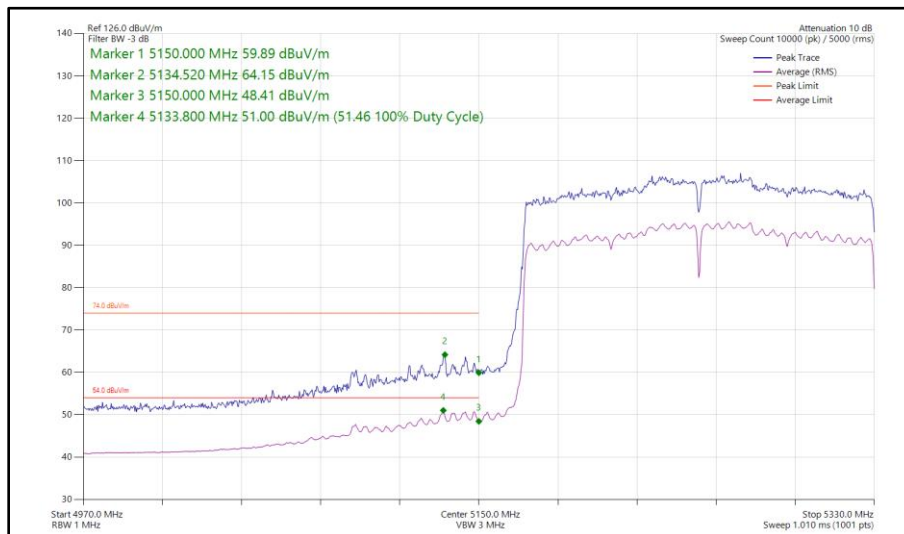
160 MHz Bandwidth - Core 0 - Core 1 (SDM)

Mode	Data Rate/ MCS	Resource Size	Resource Index	TX Frequency (MHz)	Band Edge Frequency (MHz)	Peak Level (dBμV/m)	Average Level (dBμV/m)
802.11ac VHT160	MCS 8x2	-	-	5250	5150	65.12	51.49
802.11ax HE160	MCS 2x2	SU	-	5250	5150	64.15	51.46
802.11ax HE160	MCS 11x2	106	53P	5250	5150	69.05	50.00
802.11ac VHT160	MCS 4x2	-	-	5250	5350	63.13	51.50
802.11ax HE160	MCS 2x2	SU	-	5250	5350	63.35	51.44
802.11ax HE160	MCS 11x2	52	52S	5250	5350	67.39	51.48
802.11ac VHT160	MCS 8x2	-	-	5570	5460	63.64	49.66
802.11ax HE160	MCS 2x2	SU	-	5570	5460	63.20	51.14
802.11ax HE160	MCS 11x2	106	60S	5570	5460	63.68	48.97

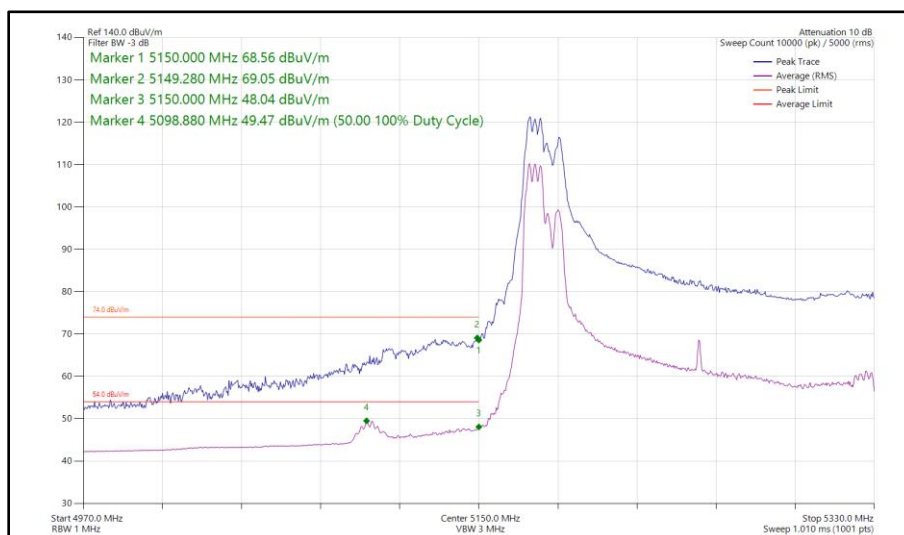
Table 25 - SDM Restricted Band Edge Results



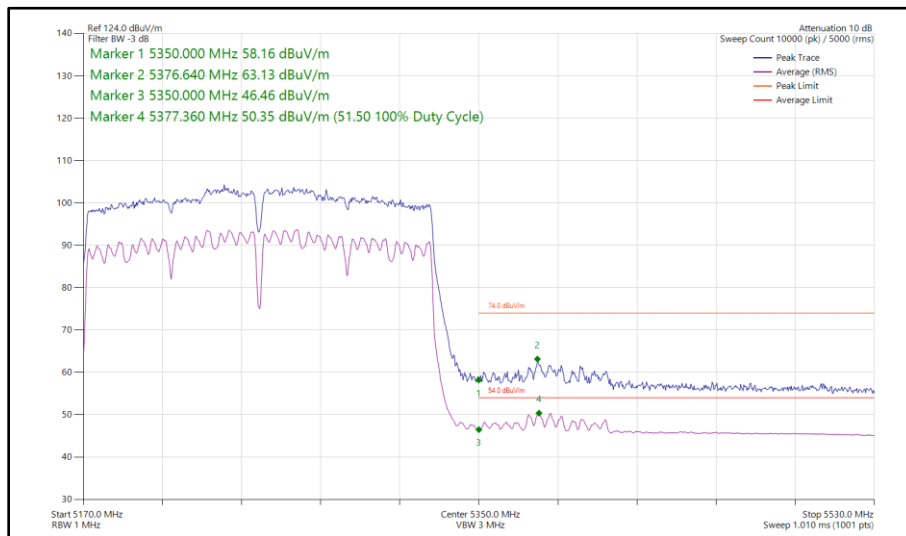
**Figure 243 - 802.11ac VHT160, SDM, Core 0 - Core 1 - 5250 MHz
Band Edge Frequency 5150 MHz**



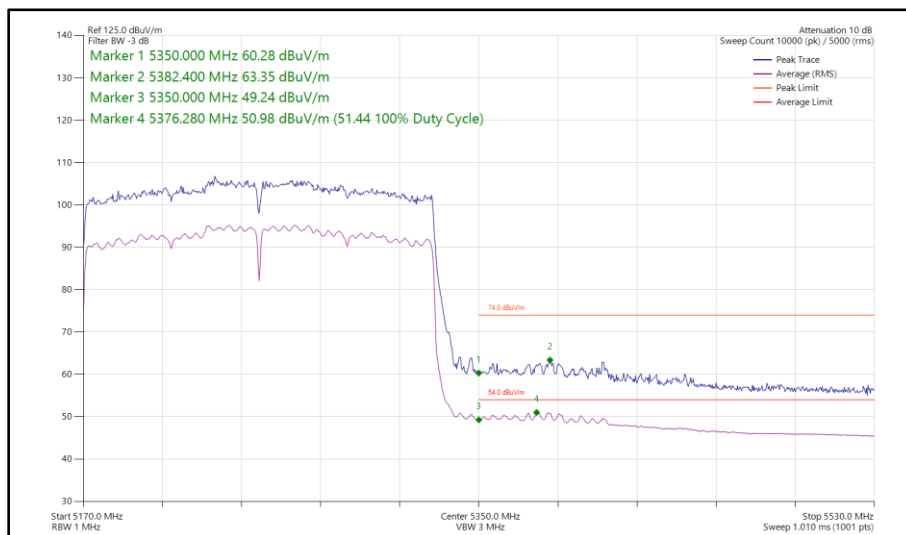
**Figure 244 - 802.11ax HE160, SU, SDM, Core 0 - Core 1 - 5250 MHz
Band Edge Frequency 5150 MHz**



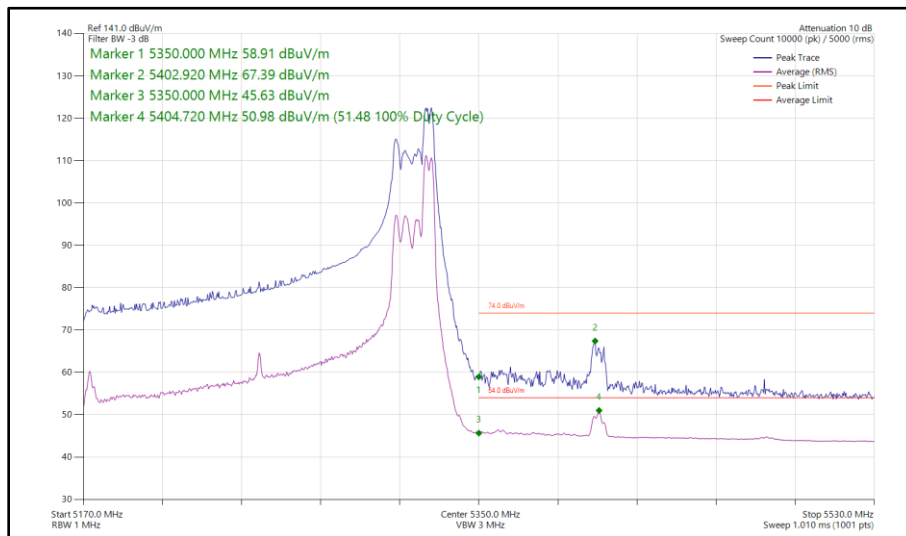
**Figure 245 - 802.11ax HE160, RU 106-53P, SDM, Core 0 - Core 1 - 5250 MHz
Band Edge Frequency 5150 MHz**



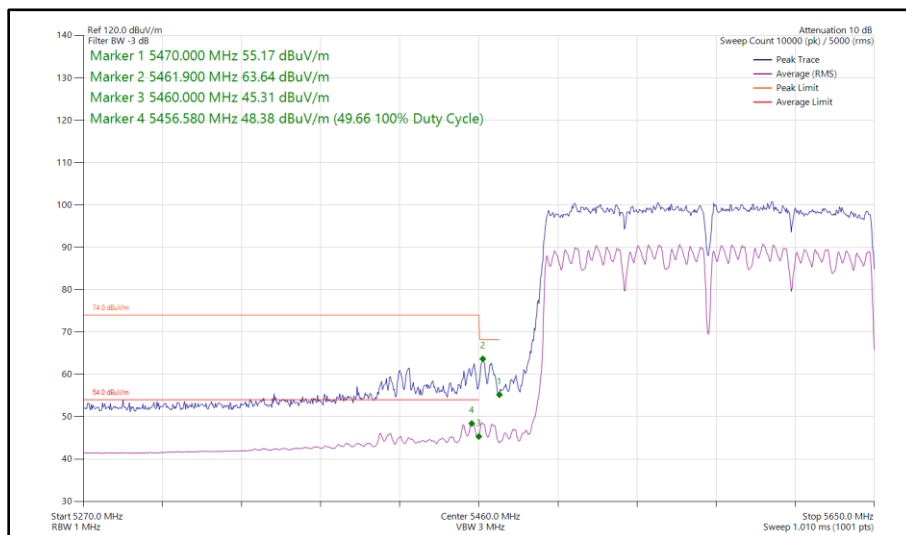
**Figure 246 - 802.11ac VHT160, SDM, Core 0 - Core 1 - 5250 MHz
Band Edge Frequency 5350 MHz**



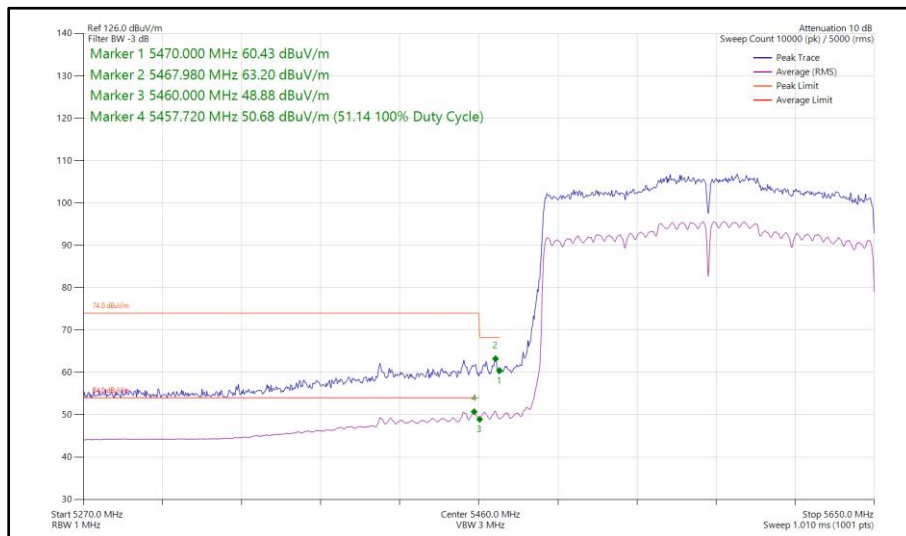
**Figure 247 - 802.11ax HE160, SU, SDM, Core 0 - Core 1 - 5250 MHz
Band Edge Frequency 5350 MHz**



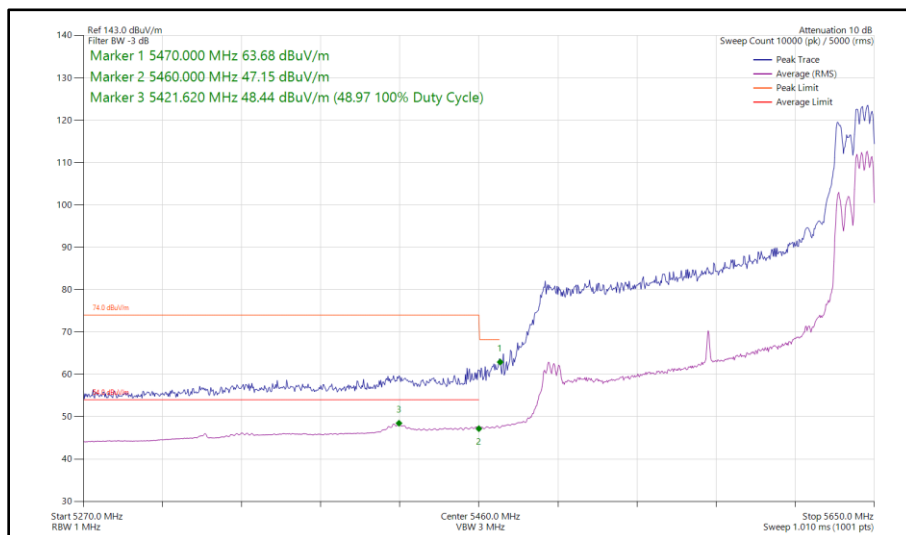
**Figure 248 - 802.11ax HE160, RU 52-52S, SDM, Core 0 - Core 1 - 5250 MHz
Band Edge Frequency 5350 MHz**



**Figure 249 - 802.11ac VHT160, SDM, Core 0 - Core 1 - 5570 MHz
Band Edge Frequency 5460 MHz**



**Figure 250 - 802.11ax HE160, SU, SDM, Core 0 - Core 1 - 5570 MHz
Band Edge Frequency 5460 MHz**



**Figure 251 - 802.11ax HE160, RU 106-60S, SDM, Core 0 - Core 1 - 5570 MHz
Band Edge Frequency 5460 MHz**

FCC 47 CFR Part 15, Limit Clause 15.205 and ISED RSS-GEN Limit Clause 8.10

	Peak (dBμV/m)	Average (dBμV/m)
Restricted Bands of Operation	74	54

Table 26 - Restricted Band Edge Limit Table



2.1.7 Test Location and Test Equipment Used

This test was carried out in RF Chamber 14.

Instrument	Manufacturer	Type No.	TE No.	Calibration Period (months)	Calibration Expiry Date
Emissions Software	TUV SUD	EmX V3.2.0	5125	-	Software
EMI Test Receiver	Rohde & Schwarz	ESW44	5912	12	05-Jul-2024
1500W (300V 12A) AC Power Supply	iTech	IT7324	5956	-	O/P Mon
5m Semi-Anechoic Chamber (Dual-Axis)	Albatross Projects	RF Chamber 14	5958	36	26-Apr-2025
Compact Antenna Mast	Maturo Gmbh	CAM4.0-P	5959	-	TU
Mast & Turntable Controller	Maturo Gmbh	FCU3.0	5960	-	TU
Tilt Antenna Mast	Maturo Gmbh	BAM4.5-P	5961	-	TU
Turntable	Maturo Gmbh	TT1.5SI	5962	-	TU
Cable (SMA to SMA 1m)	Junkosha	MWX221-01000AMSAMS/A	5996	12	05-Jun-2024
Cable (SMA to SMA 6.5m)	Junkosha	MWX221-06500AMSAMS/B	6003	12	05-Jun-2024
Cable (SMA to SMA 1m)	Junkosha	MWX221-01000AMSAMS/A	6007	12	05-Jun-2024
Horn Antenna (1-10 GHz)	Schwarzbeck	BBHA9120B	6141	12	26-Aug-2024
Digital Multimeter	Fluke	115	6145	12	15-Jun-2024
Humidity & Temperature meter	R.S Components	1364	6149	12	07-Jul-2024
SAC Switch Unit	TUV SUD	TUV_SSU_004 PLC	6349	12	01-May-2024
1m Cable	Junkosha	MWX241-01000AMSAMS/B	6741	12	01-Feb-2025
8M SMA Cable	Junkosha	MWX221-08000AMSAMS/B	6834	12	14-Aug-2025*

Table 27

TU - Traceability Unscheduled

O/P Mon - Output Monitored using calibrated equipment

*NOTE: Only used within calibration period.



2.2 Emission Bandwidth

2.2.1 Specification Reference

FCC 47 CFR Part 15E, Clause 15.407 (a)
ISED RSS-247, Clause 6.2

2.2.2 Equipment Under Test and Modification State

A3112, S/N: KVP90WMK2 - Modification State 0
A3112, S/N: DQH6Q99MH - Modification State 0

2.2.3 Date of Test

07-July-2024 to 23-July-2024

2.2.4 Test Method

The test was performed in accordance with ANSI C63.10 2020, clause 12.5.3 for FCC measurements and clause 12.5.2 for ISED measurements.

For modes of operation using multiple cores, measurements were made on each core but only the worst-case results are reported. Worst case was considered as the narrowest results for 6 dB bandwidth and the widest result for 26 dB bandwidth and 99% occupied bandwidth.

2.2.5 Environmental Conditions

Ambient Temperature	21.8 - 22.3 °C
Relative Humidity	52.3 - 57.6 %



2.2.6 Test Results

5 GHz WLAN

SISO

Protocol	26 dB Bandwidth (MHz)	
	Minimum	Maximum
802.11a	20.760	21.420
802.11n HT20	20.940	22.620
802.11n HT40	41.640	42.960
802.11ac VHT80	83.820	87.120
802.11ac VHT160	165.480	165.480
802.11ax HE20 SU	21.000	24.300
802.11ax HE40 SU	41.400	43.920
802.11ax HE80 SU	82.500	84.260
802.11ax HE160 SU	165.480	165.480

Table 28 - 26 dB Bandwidth Summary Results - SISO

Protocol	6 dB Bandwidth (MHz)	
	Minimum	Maximum
802.11a	16.080	16.140
802.11n HT20	17.280	17.640
802.11n HT40	35.640	36.480
802.11ac VHT80	75.680	75.680
802.11ax HE20 SU	18.960	19.080
802.11ax HE40 SU	38.040	38.160
802.11ax HE80 SU	77.000	77.000

Table 29 - 6 dB Bandwidth Summary Results - SISO

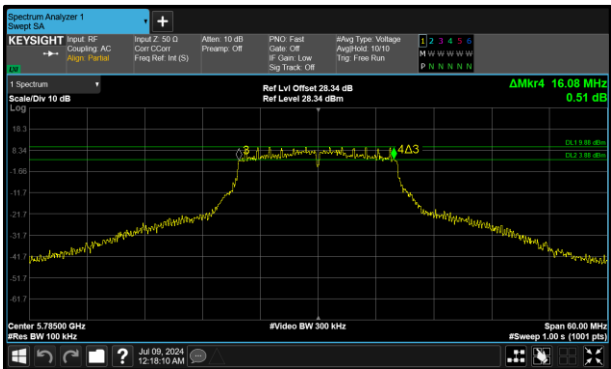


Figure 252 - 802.11a Minimum 6 dB EBW

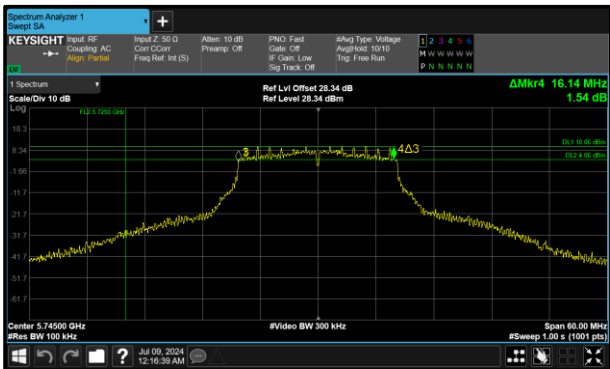


Figure 253 - 802.11a Maximum 6 dB EBW

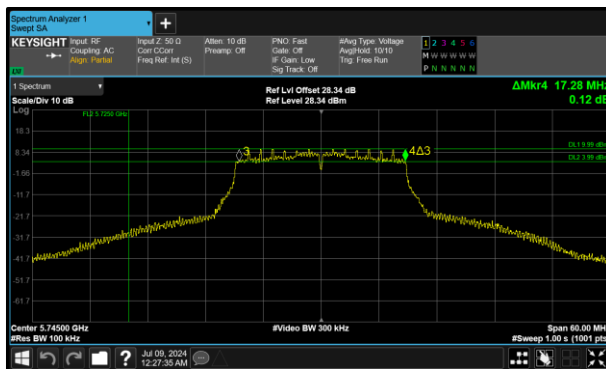


Figure 254 - 802.11n HT20 Minimum 6 dB EBW

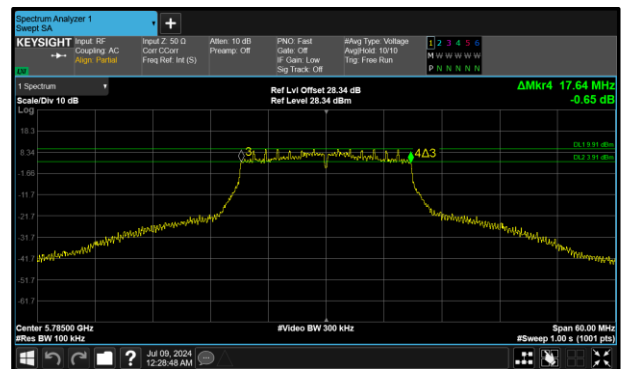


Figure 255 - 802.11n HT20 Maximum 6 dB EBW

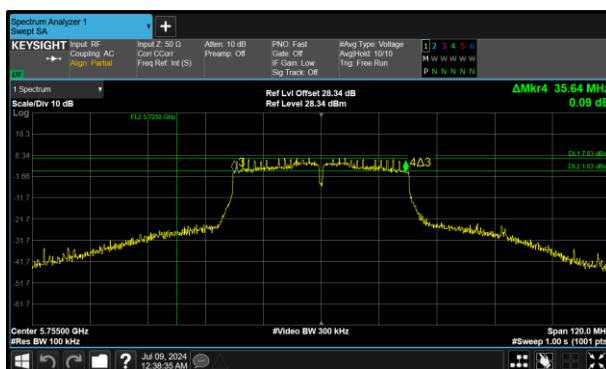


Figure 256 - 802.11n HT40 Minimum 6 dB EBW

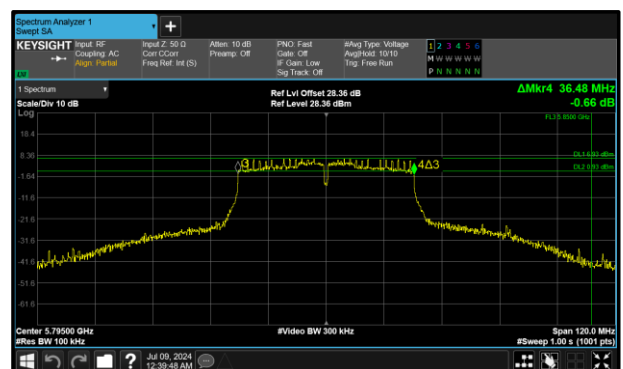


Figure 257 - 802.11n HT40 Maximum 6 dB EBW

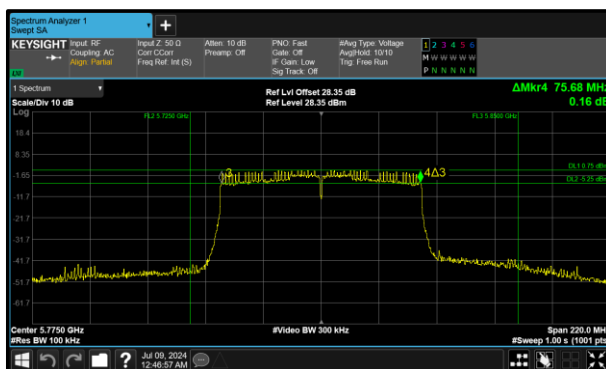


Figure 258 - 802.11ac VHT80 Minimum 6 dB
EBW

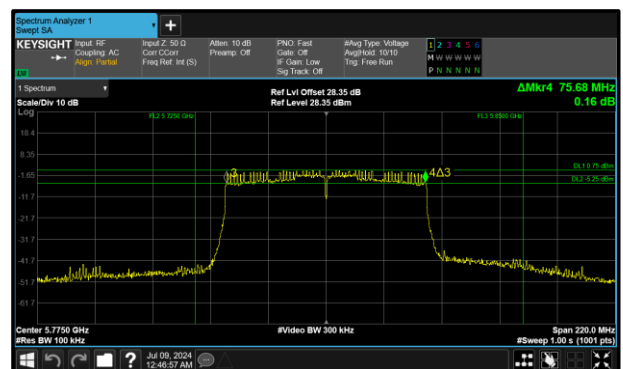


Figure 259 - 802.11ac VHT80 Maximum 6 dB
EBW