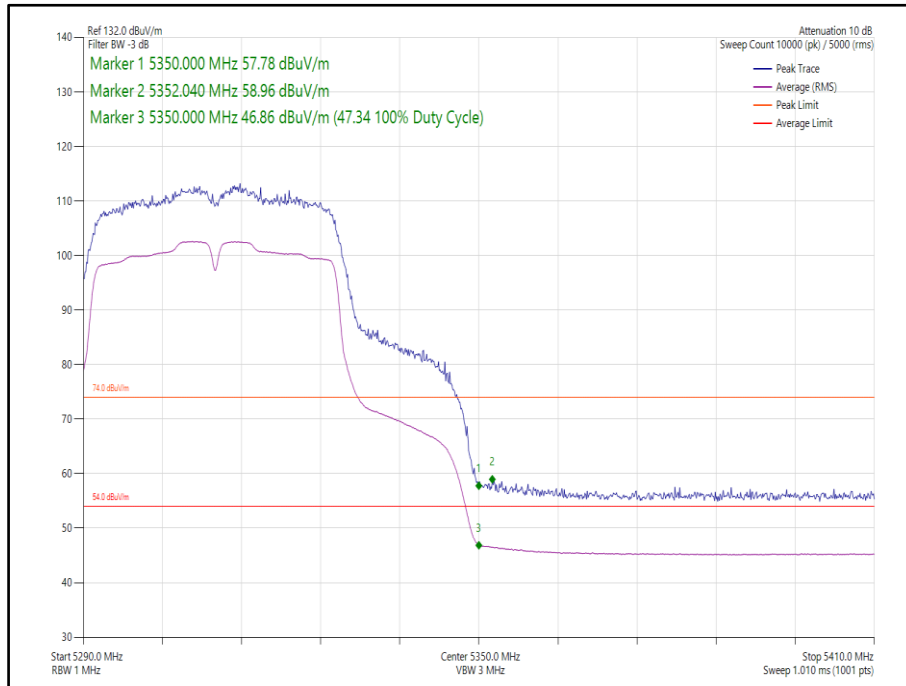
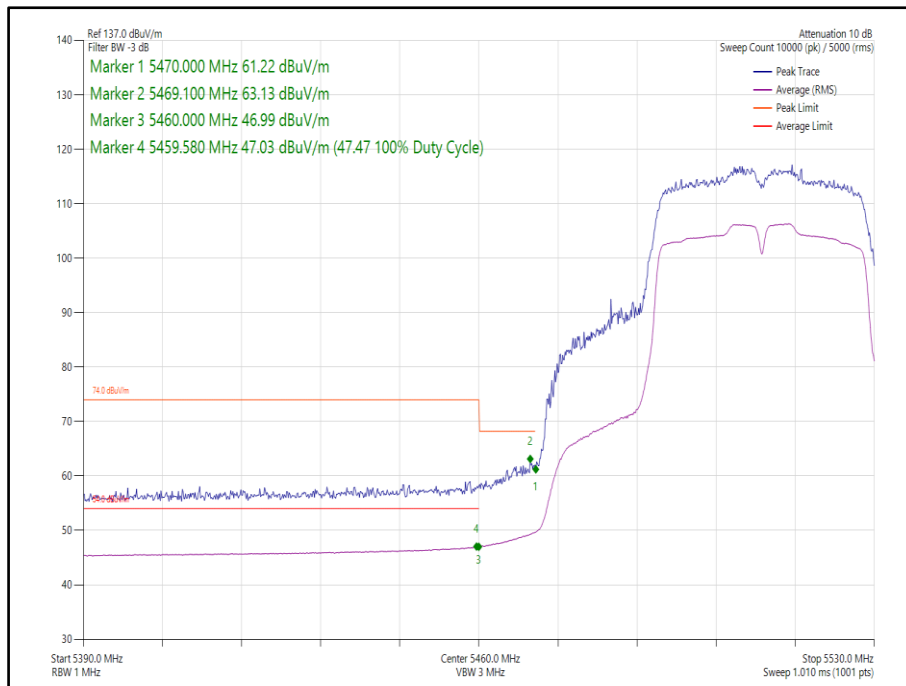




**Figure 148 - 802.11ac, VHT40, TxBF, Core 0-1 - 5310 MHz,
Band Edge Frequency 5350 MHz**



**Figure 149 - 802.11ac, VHT40, TxBF, Core 0-1 - 5510 MHz,
Band Edge Frequency 5460 MHz**



80 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 VHT80	MCS2x1	-	-	5210	5150	62.77	51.49
802.11ax HE80	MCS4x1	SU	-	5210	5150	63.21	51.39
802.11ax HE80	MCS11x1	52	37	5210	5150	69.32	50.05
802.11ac VHT80	MCS2x1	-	-	5290	5350	63.09	51.38
802.11ax HE80	MCS2x1	SU	-	5290	5350	63.02	51.40
802.11ax HE80	MCS11x1	52	37	5290	5350	64.60	51.37
802.11ac VHT80	MCS2x1	-	-	5530	5460	63.38	51.34
802.11ax HE80	MCS2x1	SU	-	5530	5460	63.68	51.34
802.11ax HE80	MCS11x1	106	53	5530	5460	63.55	47.69

Table 17 - SISO Restricted Band Edge Results

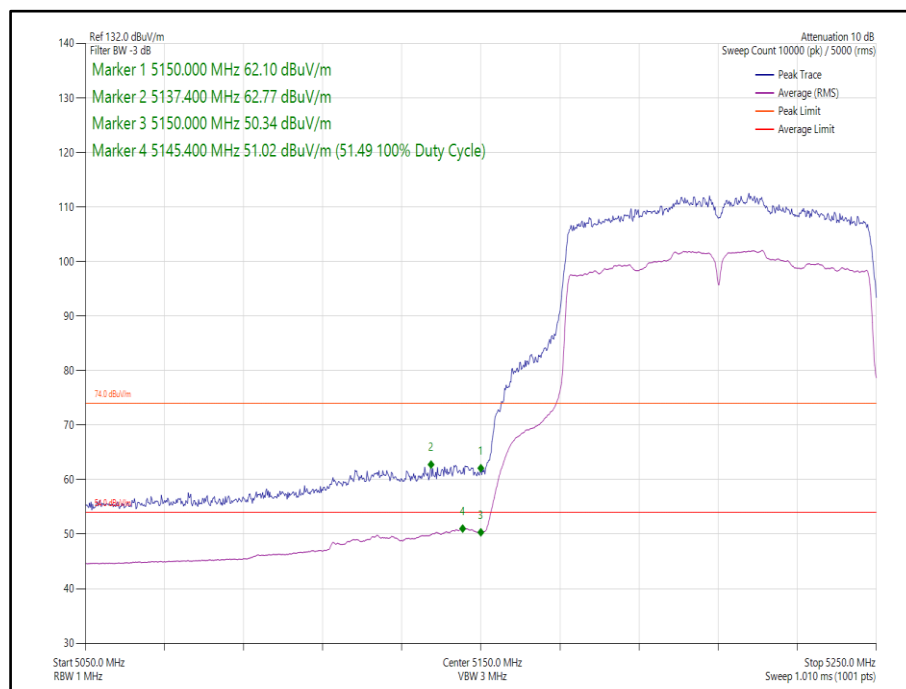
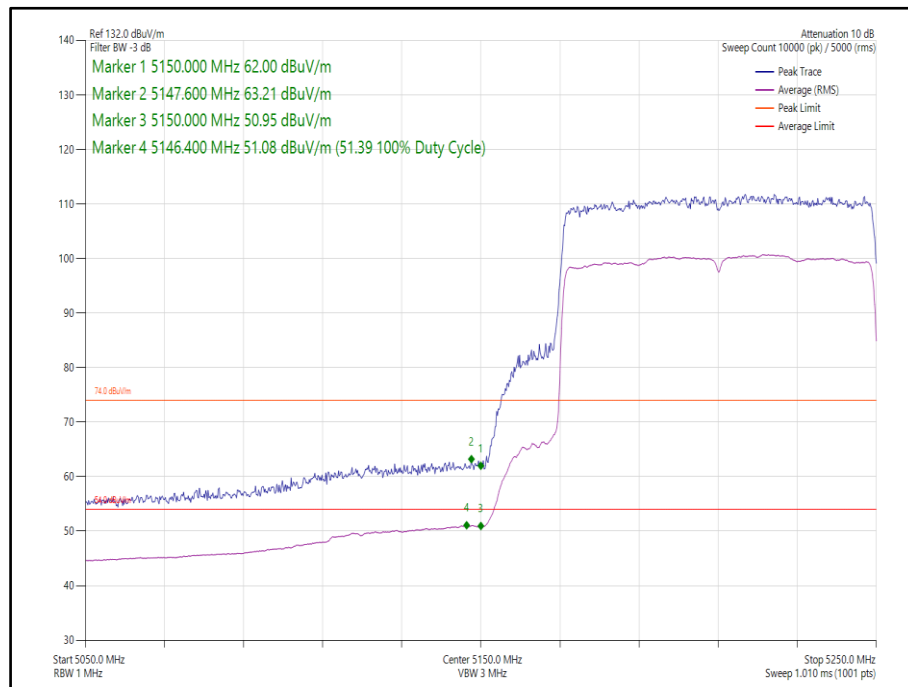
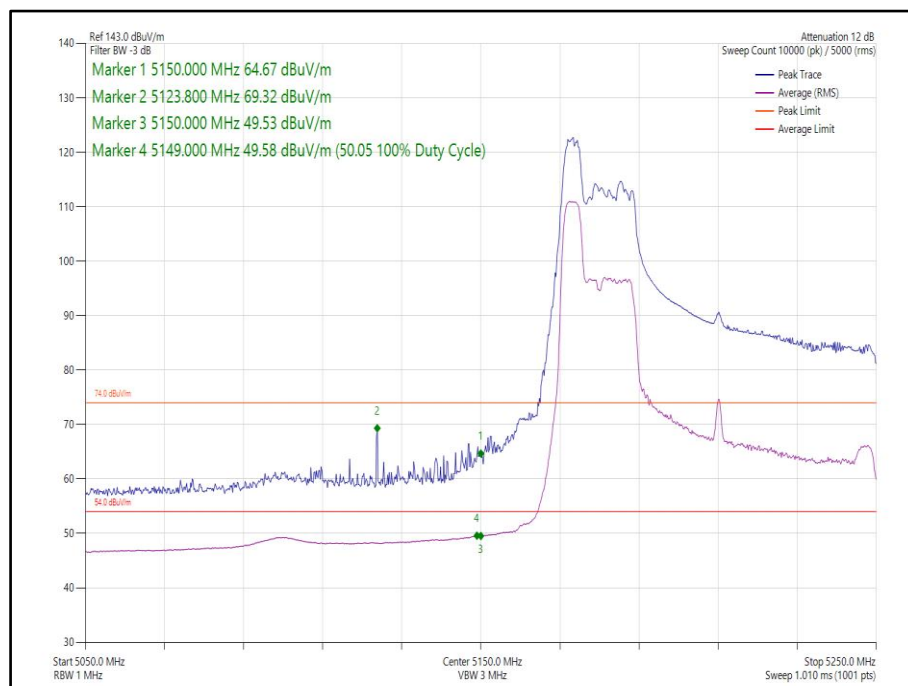


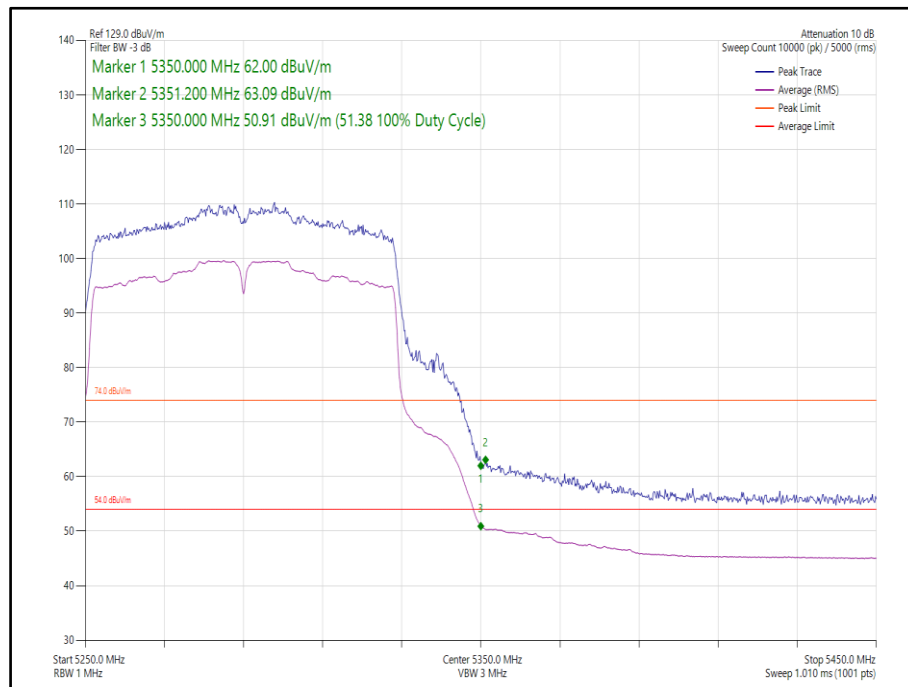
Figure 150 - 802.11ac, VHT80, SISO, Core 0 - 5210 MHz,
Band Edge Frequency 5150 MHz



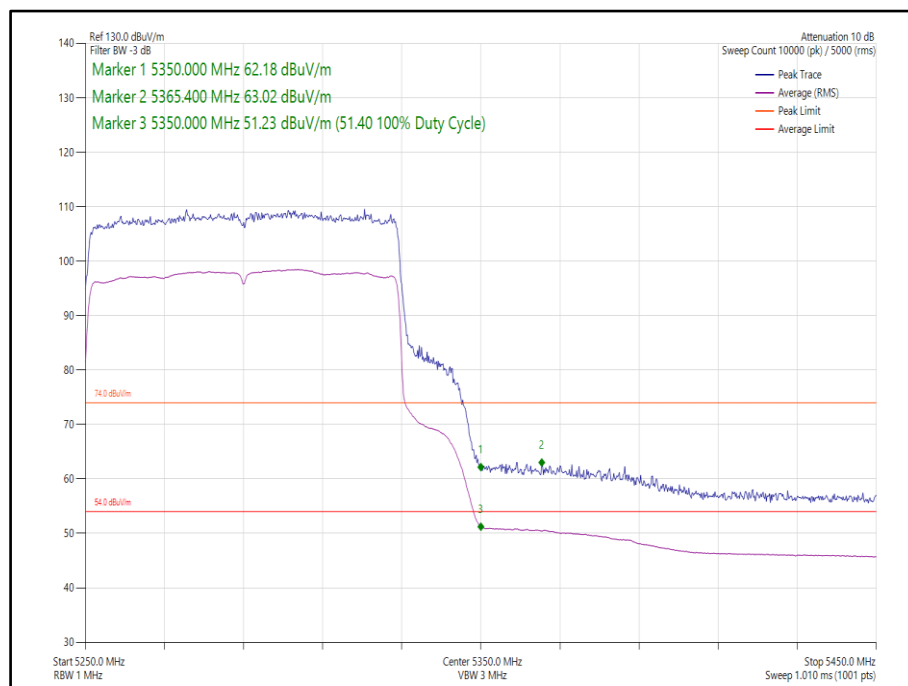
**Figure 151 - 802.11ax, HE80, SU, SISO, Core 0 - 5210 MHz,
Band Edge Frequency 5150 MHz**



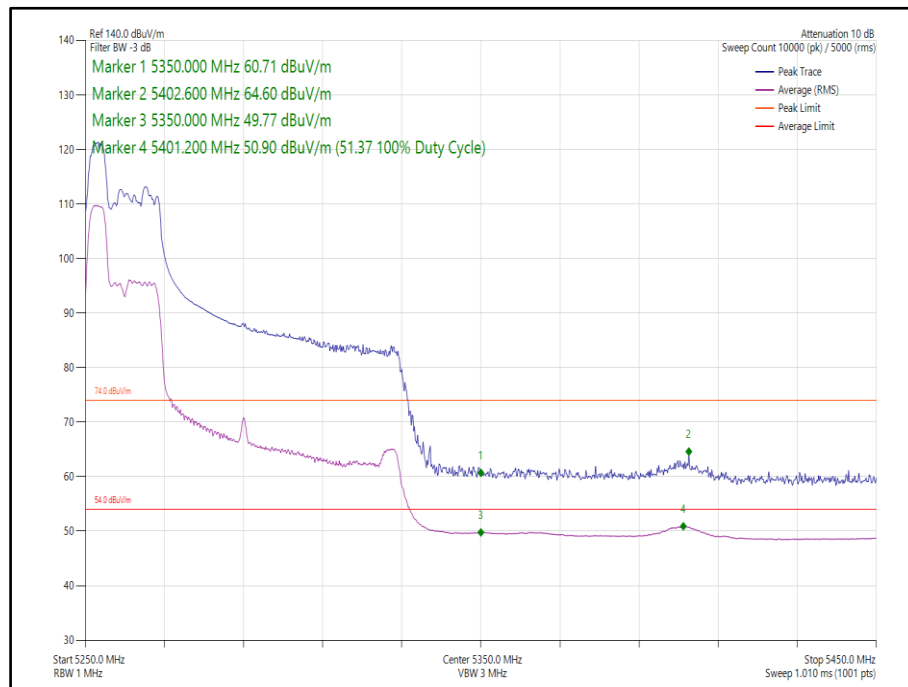
**Figure 152 - 802.11ax, HE80, RU 52-37, SISO, Core 0 - 5210 MHz,
Band Edge Frequency 5150 MHz**



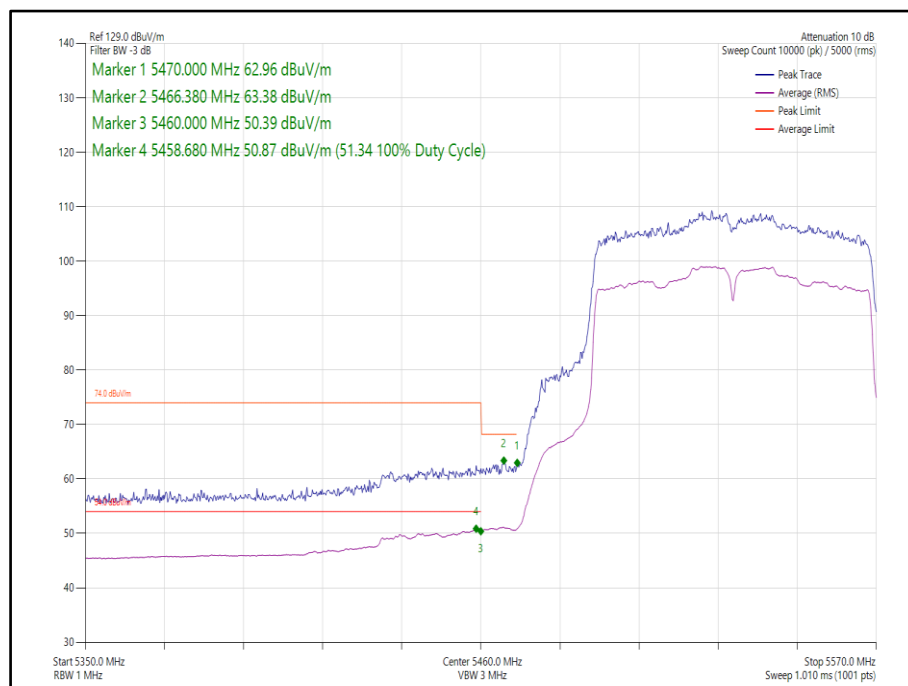
**Figure 153 - 802.11ac, VHT80, SISO, Core 0 - 5290 MHz,
Band Edge Frequency 5350 MHz**



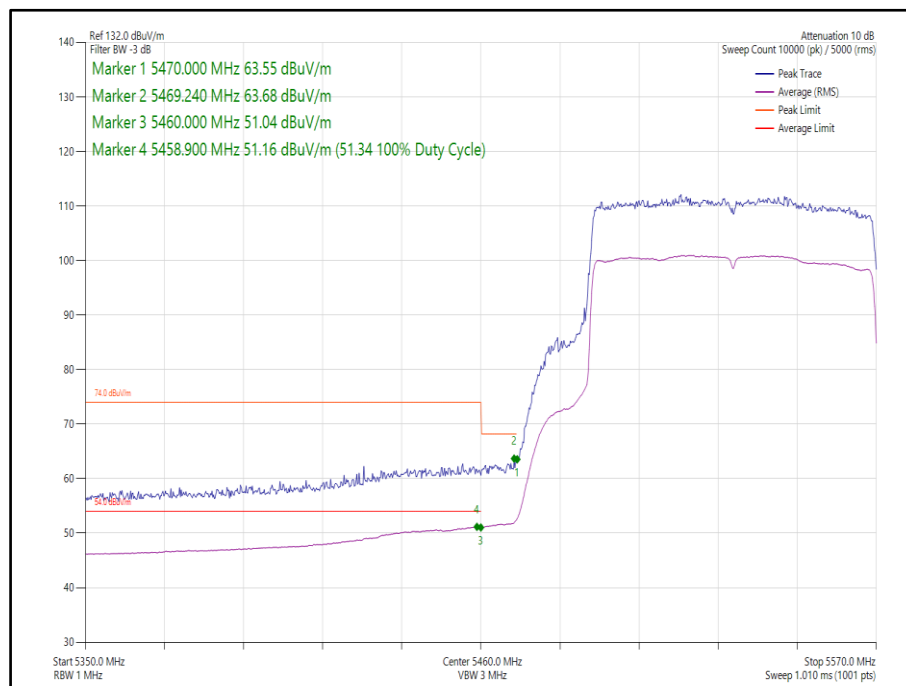
**Figure 154 - 802.11ax, HE80, SU, SISO, Core 0 - 5290 MHz,
Band Edge Frequency 5350 MHz**



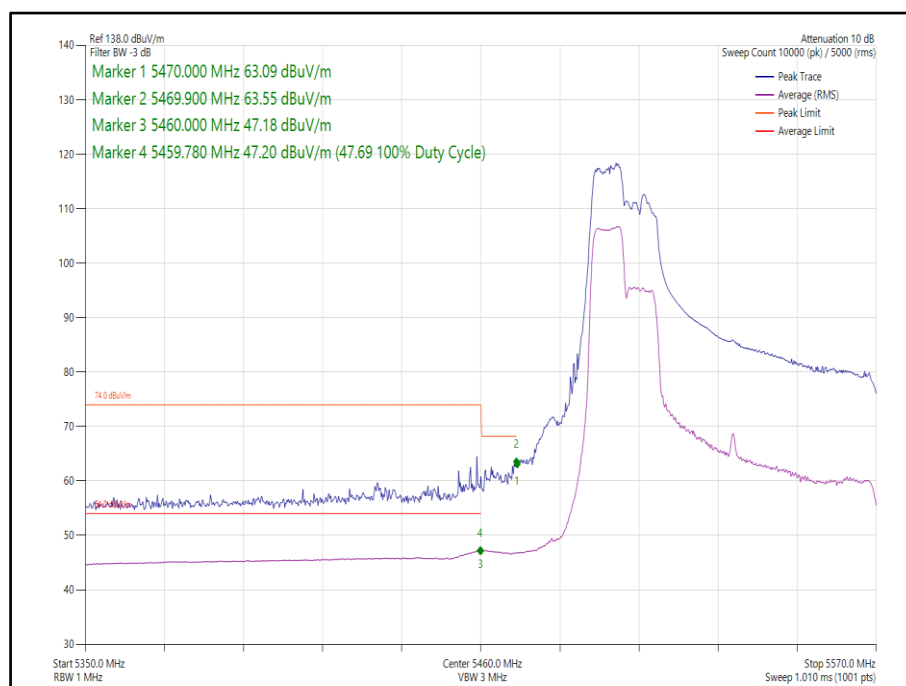
**Figure 155 - 802.11ax, HE80, RU 52-37, SISO, Core 0 - 5290 MHz,
Band Edge Frequency 5350 MHz**



**Figure 156 - 802.11ac, VHT80, SISO, Core 0 - 5530 MHz,
Band Edge Frequency 5460 MHz**



**Figure 157 - 802.11ax, HE80, SU, SISO, Core 0 - 5530 MHz,
Band Edge Frequency 5460 MHz**



**Figure 158 - 802.11ax, HE80, RU 106-53, SISO, Core 0 - 5530 MHz,
Band Edge Frequency 5460 MHz**



80 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 VHT80	MCS4x1	-	-	5210	5150	62.01	51.47
802.11ax HE80	MCS4x1	SU	-	5210	5150	63.23	51.44
802.11ax HE80	MCS11x1	26	-	5210	5150	69.44	50.90
802.11ac VHT80	MCS7x1	-	-	5290	5350	64.93	51.33
802.11ax HE80	MCS2x1	SU	-	5290	5350	63.43	51.39
802.11ax HE80	MCS11x1	52	52	5290	5350	69.47	49.55
802.11ac VHT80	MCS2x1	-	-	5530	5460	63.24	49.46
802.11ax HE80	MCS4x1	SU	-	5530	5460	63.41	49.25
802.11ax HE80	MCS11x1	106	53	5530	5460	63.55	49.21

Table 18 - SISO Restricted Band Edge Results

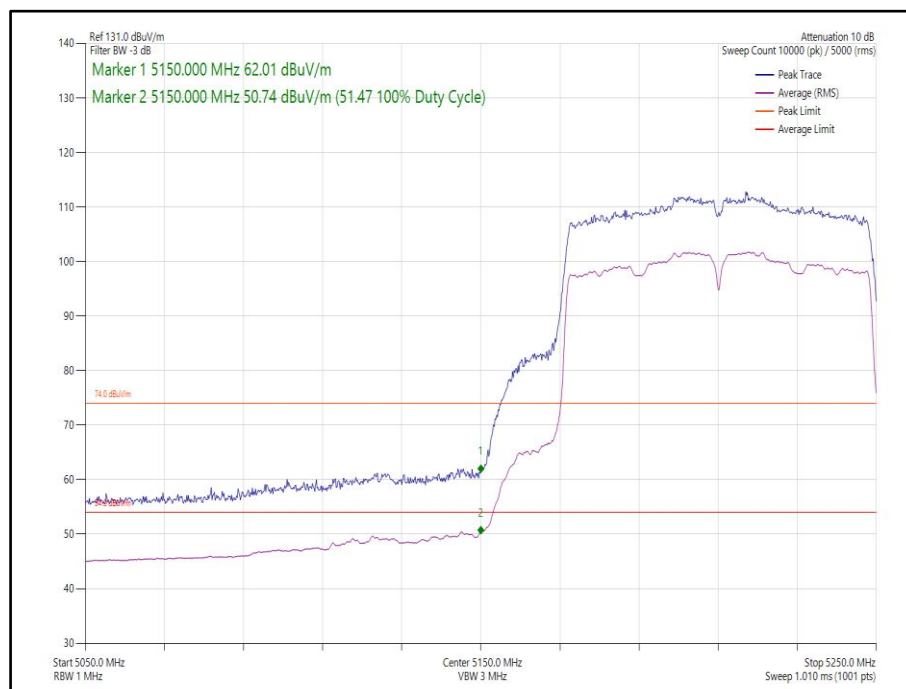
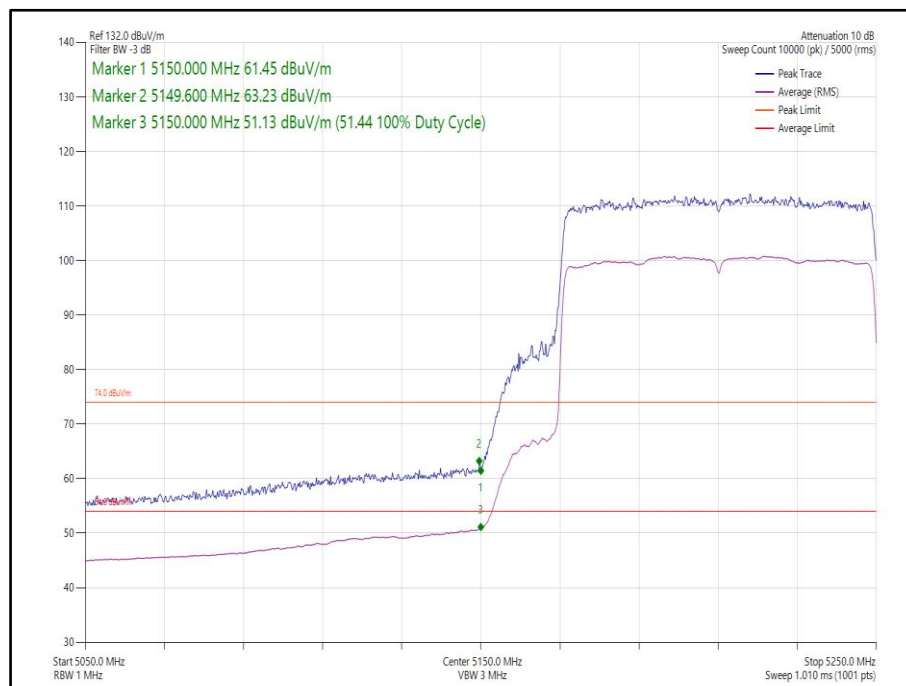
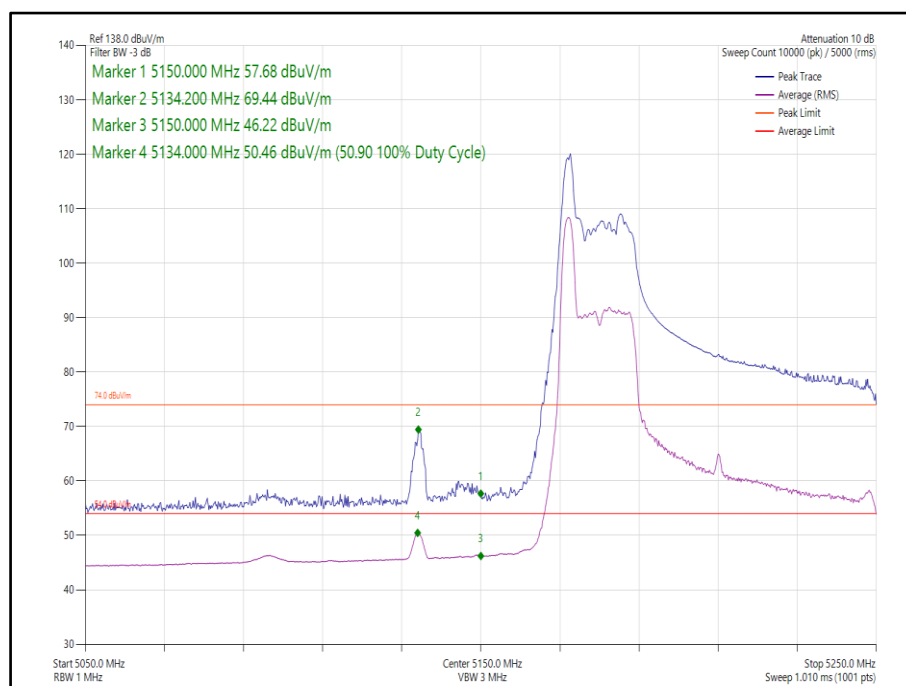


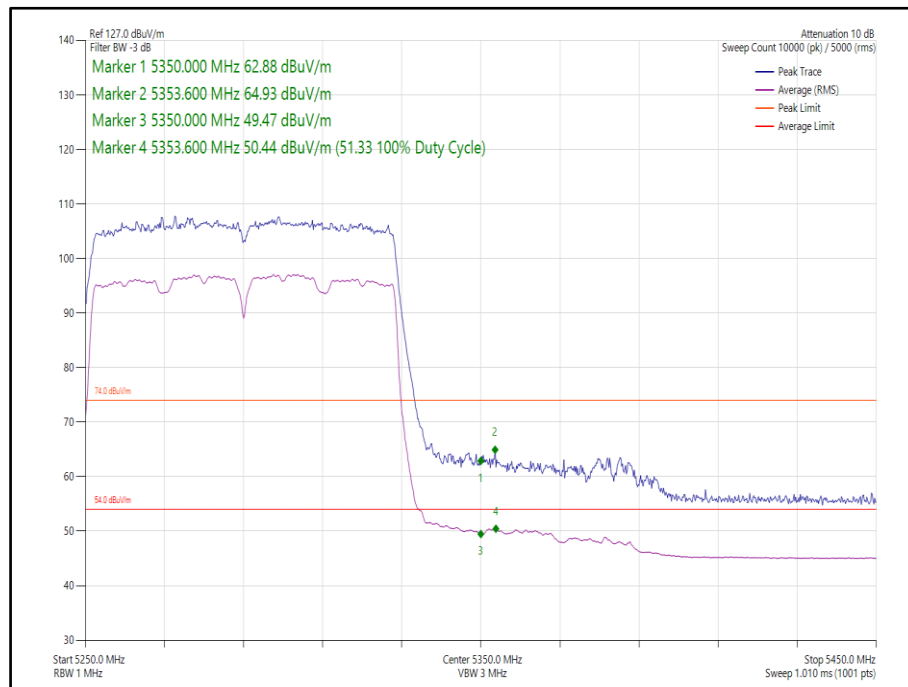
Figure 159 - 802.11ac, VHT80, SISO, Core 1 - 5210 MHz,
Band Edge Frequency 5150 MHz



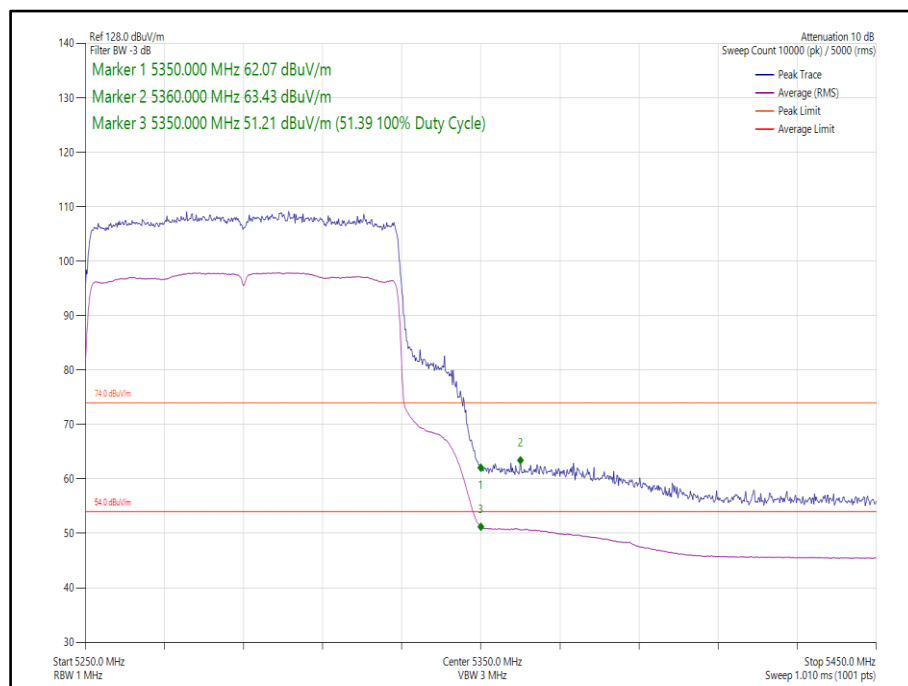
**Figure 160 - 802.11ax, HE80, SU, SISO, Core 1 - 5210 MHz,
Band Edge Frequency 5150 MHz**



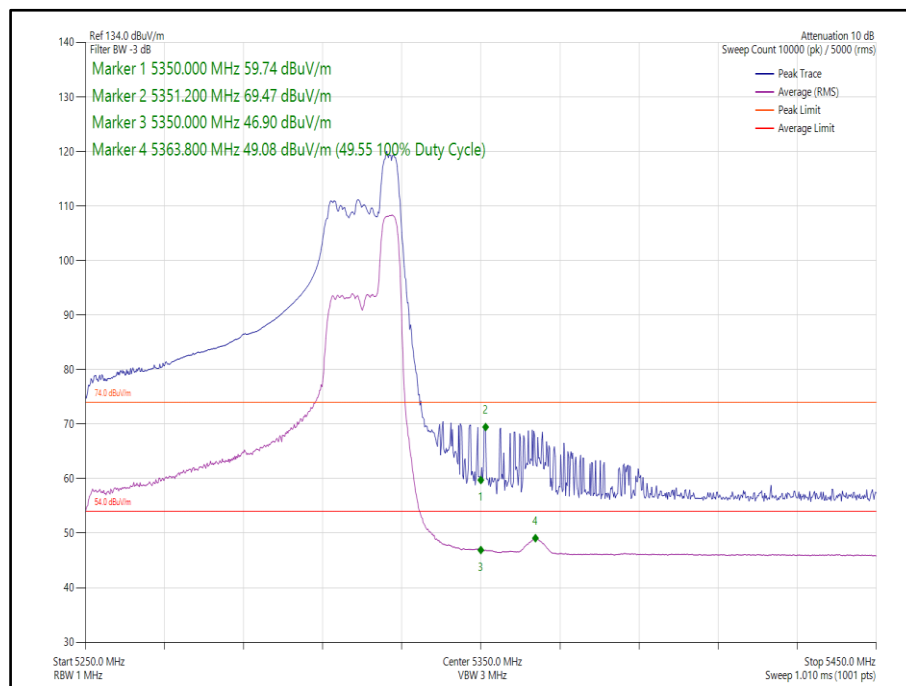
**Figure 161 - 802.11ax, HE80, RU 26-0, SISO, Core 1 - 5210 MHz,
Band Edge Frequency 5150 MHz**



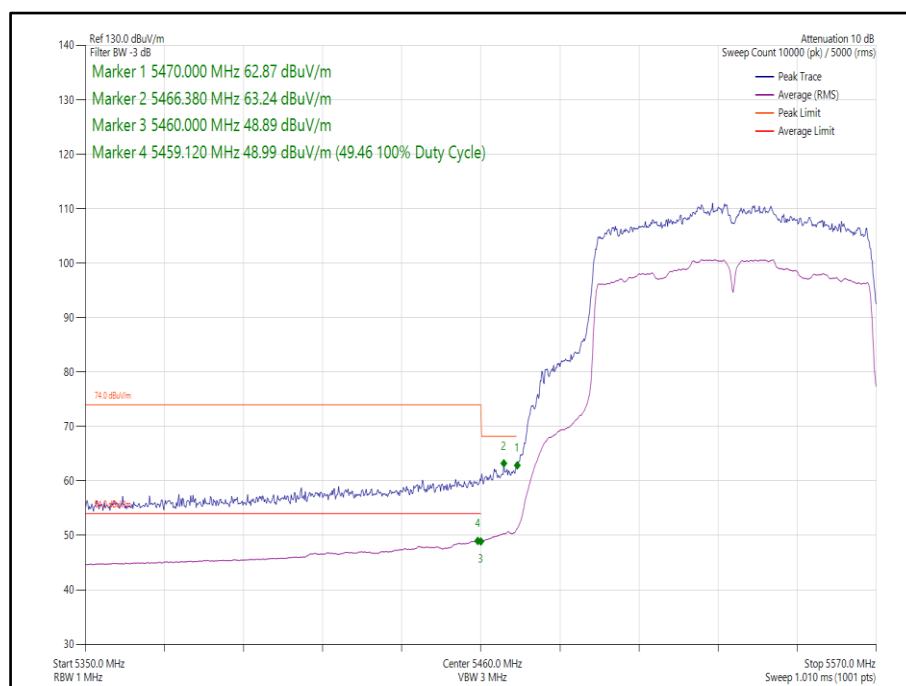
**Figure 162 - 802.11ac, VHT80, SISO, Core 1 - 5290 MHz,
Band Edge Frequency 5350 MHz**



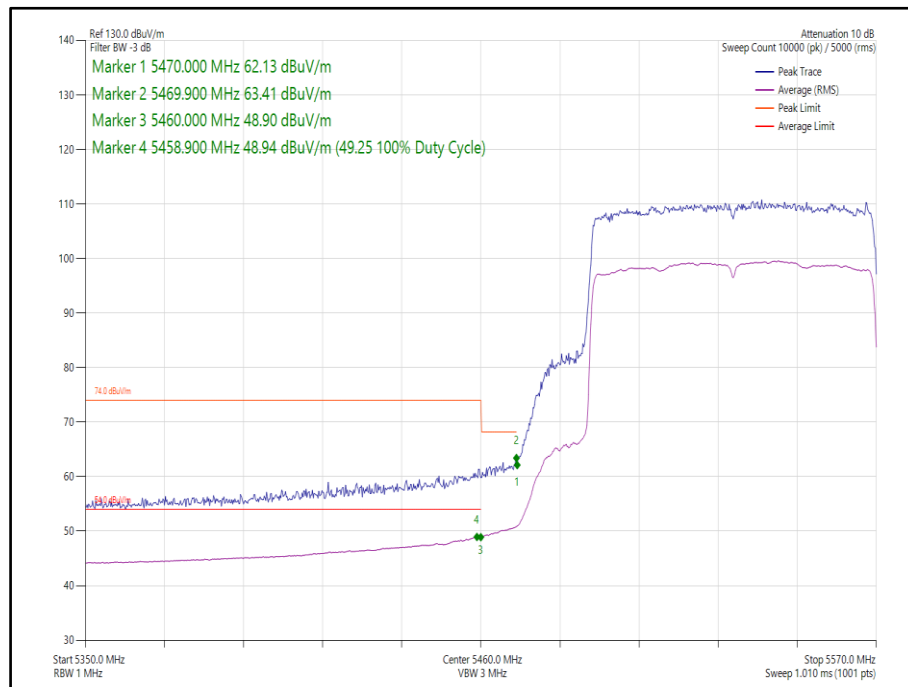
**Figure 163 - 802.11ax, HE80, SU, SISO, Core 1 - 5290 MHz,
Band Edge Frequency 5350 MHz**



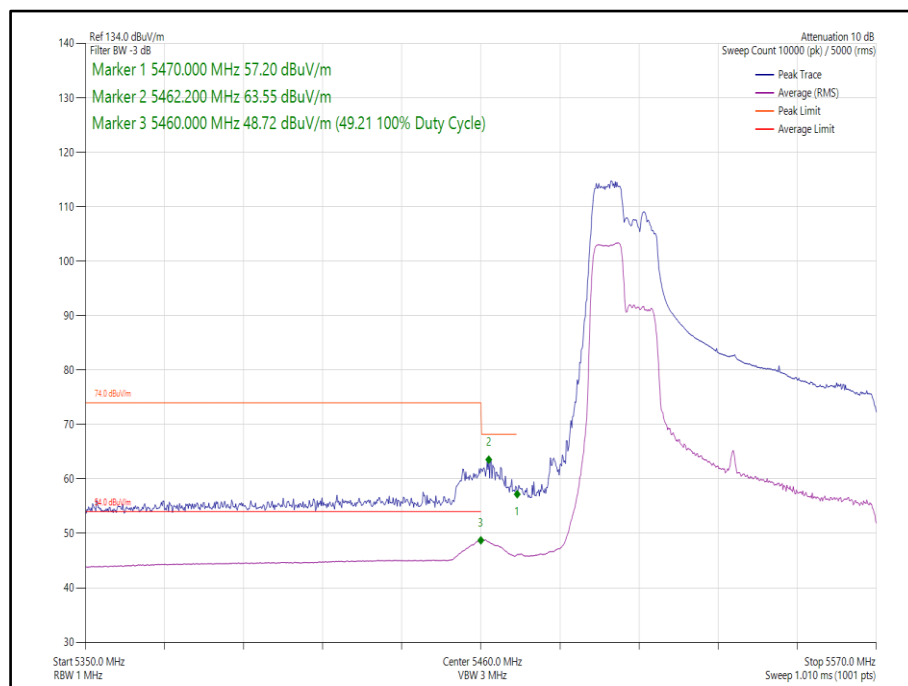
**Figure 164 - 802.11ax, HE80, RU 52-52, SISO, Core 1 - 5290 MHz,
Band Edge Frequency 5350 MHz**



**Figure 165 - 802.11ac, VHT80, SISO, Core 1 - 5530 MHz,
Band Edge Frequency 5460 MHz**



**Figure 166 - 802.11ax, HE80, SU, SISO, Core 1 - 5530 MHz,
Band Edge Frequency 5460 MHz**



**Figure 167 - 802.11ax, HE80, RU 106-53, SISO, Core 1 - 5530 MHz,
Band Edge Frequency 5460 MHz**

80 MHz Bandwidth - Core 0-1 (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	MCS2x1	-	-	5210	5150	63.06	51.43
802.11ax HE80	MCS4x1	SU	-	5210	5150	63.69	51.32
802.11ax HE80	MCS11x1	106	53	5210	5150	64.97	51.50
802.11ac VHT80	MCS4x1	-	-	5290	5350	63.28	51.33
802.11ax HE80	MCS4x1	SU	-	5290	5350	63.73	51.50
802.11ax HE80	MCS11x1	106	53	5290	5350	63.18	51.43
802.11ac VHT80	MCS4x1	-	-	5530	5460	63.44	50.47
802.11ax HE80	MCS2x1	SU	-	5530	5460	63.68	50.41
802.11ax HE80	MCS11x1	106	53	5530	5460	63.58	50.00

Table 19 - CDD Restricted Band Edge Results

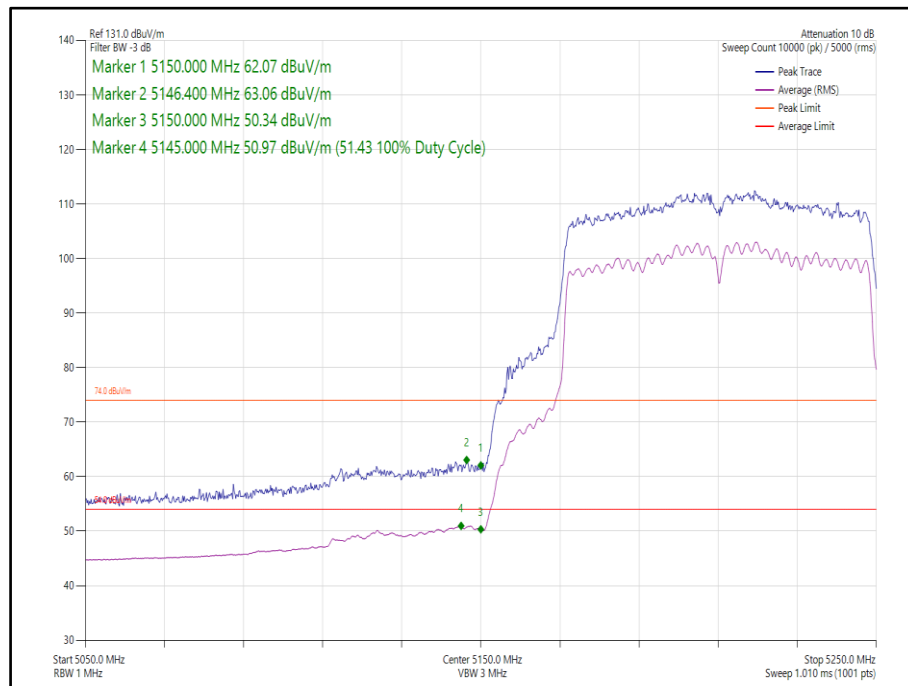
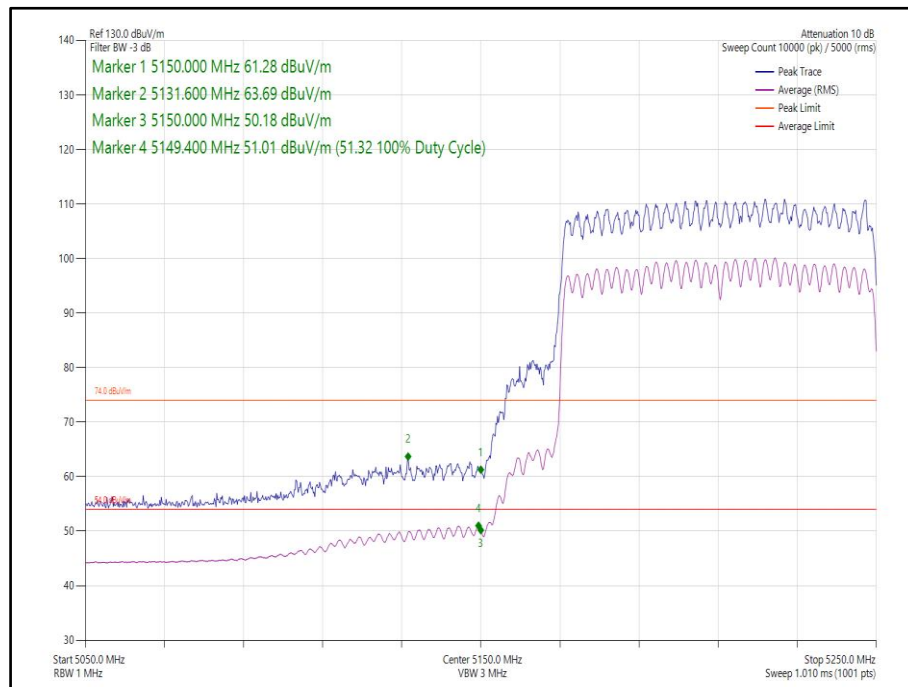
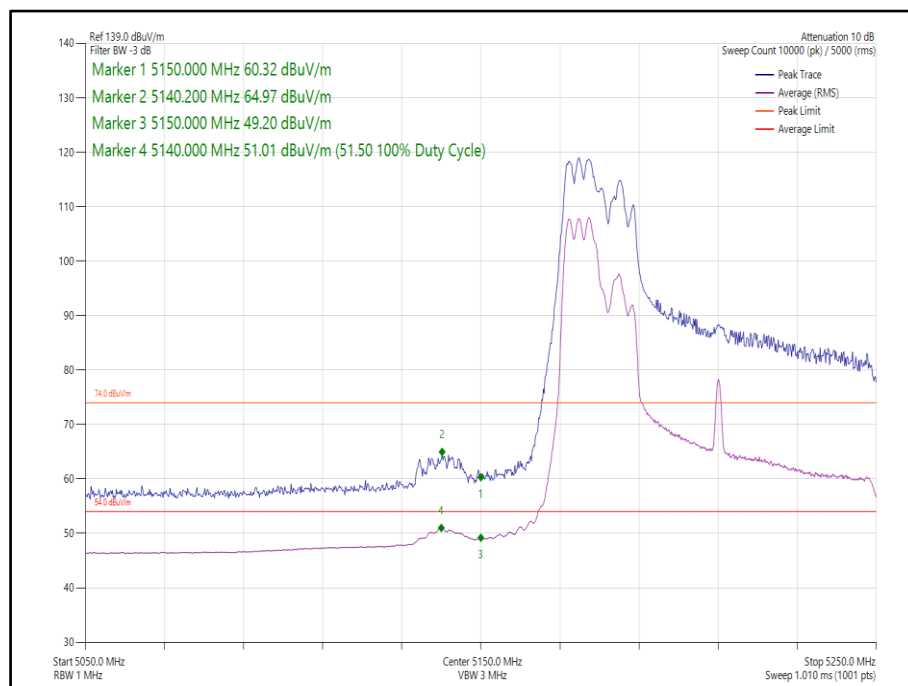


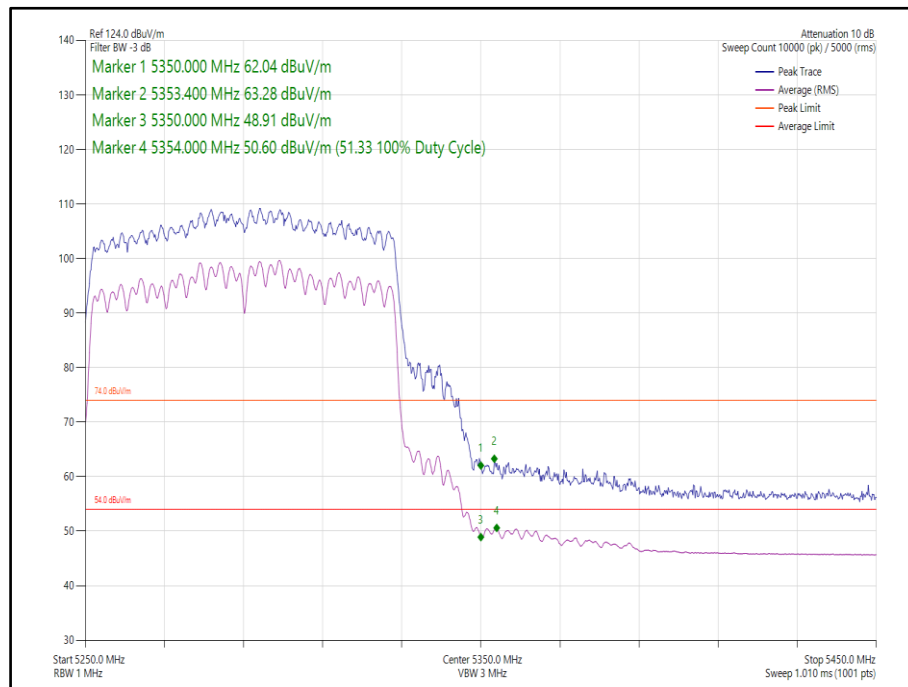
Figure 168 - 802.11ac, VHT80, CDD, Core 0-1 - 5210 MHz,
Band Edge Frequency 5150 MHz



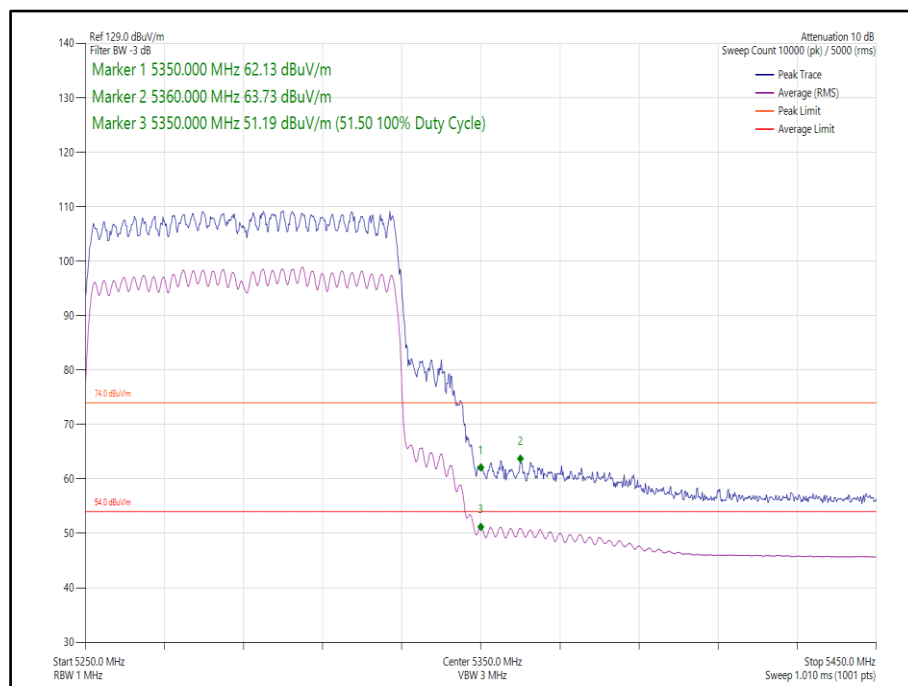
**Figure 169 - 802.11ax, HE80, SU, CDD, Core 0-1 - 5210 MHz,
Band Edge Frequency 5150 MHz**



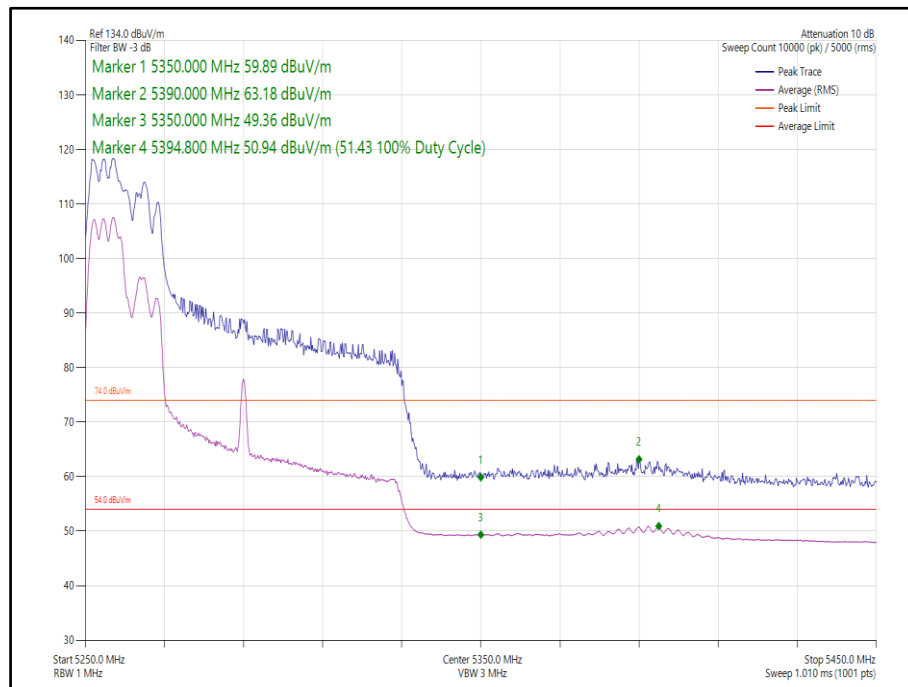
**Figure 170 - 802.11ax, HE80, RU 106-53, CDD, Core 0-1 - 5210 MHz,
Band Edge Frequency 5150 MHz**



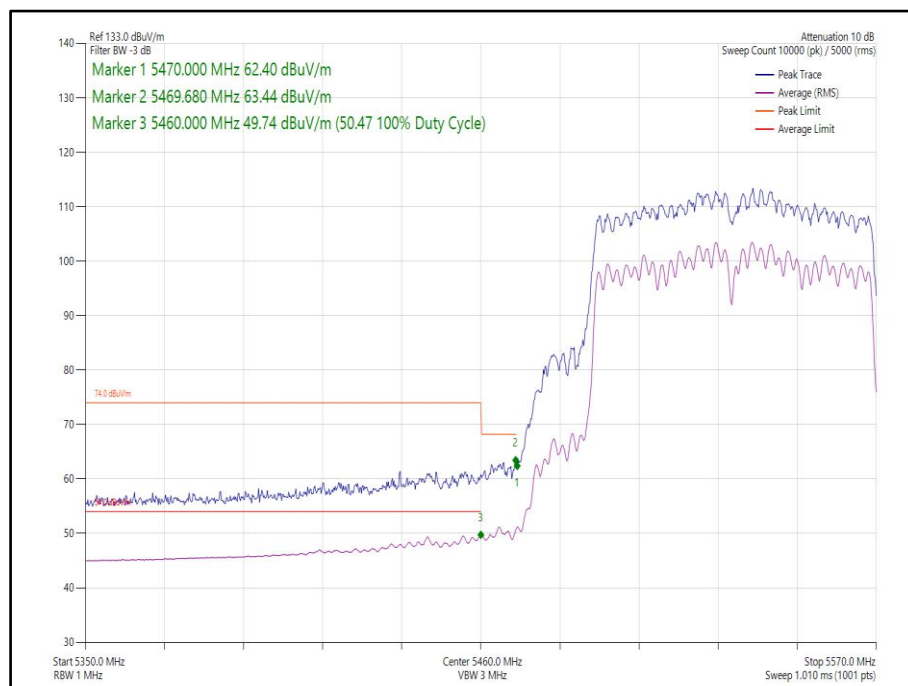
**Figure 171 - 802.11ac, VHT80, CDD, Core 0-1 - 5290 MHz,
Band Edge Frequency 5350 MHz**



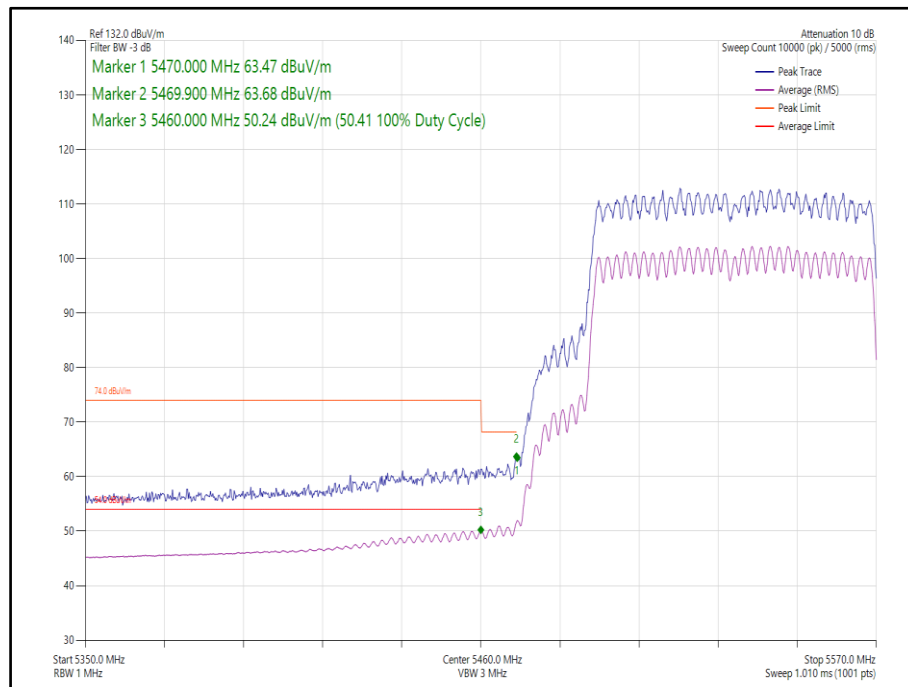
**Figure 172 - 802.11ax, HE80, SU, CDD, Core 0-1 - 5290 MHz,
Band Edge Frequency 5350 MHz**



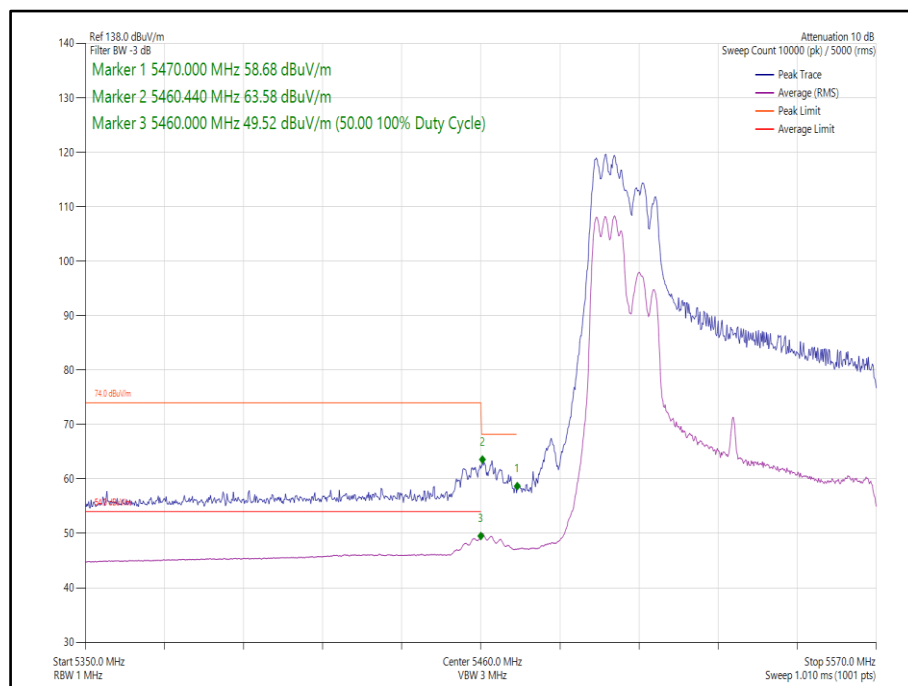
**Figure 173 - 802.11ax, HE80, RU 106-53, CDD, Core 0-1 - 5290 MHz,
Band Edge Frequency 5350 MHz**



**Figure 174 - 802.11ac, VHT80, CDD, Core 0-1 - 5530 MHz,
Band Edge Frequency 5460 MHz**



**Figure 175 - 802.11ax, HE80, SU, CDD, Core 0-1 - 5530 MHz,
Band Edge Frequency 5460 MHz**



**Figure 176 - 802.11ax, HE80, RU 106-53, CDD, Core 0-1 - 5530 MHz,
Band Edge Frequency 5460 MHz**



80 MHz Bandwidth - Core 0-1 (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	MCS4x2	-	-	5210	5150	62.96	51.47
802.11ax HE80	MCS2x2	SU	-	5210	5150	63.35	51.23
802.11ax HE80	MCS11x2	106	53	5210	5150	65.70	51.49
802.11ac VHT80	MCS2x2	-	-	5290	5350	62.28	51.39
802.11ax HE80	MCS2x2	SU	-	5290	5350	63.50	51.23
802.11ax HE80	MCS11x2	106	60	5290	5350	66.53	51.50
802.11ac VHT80	MCS4x2	-	-	5530	5460	62.76	51.21
802.11ax HE80	MCS2x2	SU	-	5530	5460	63.58	51.40
802.11ax HE80	MCS11x2	106	53	5530	5460	63.70	49.92

Table 20 - SDM Restricted Band Edge Results

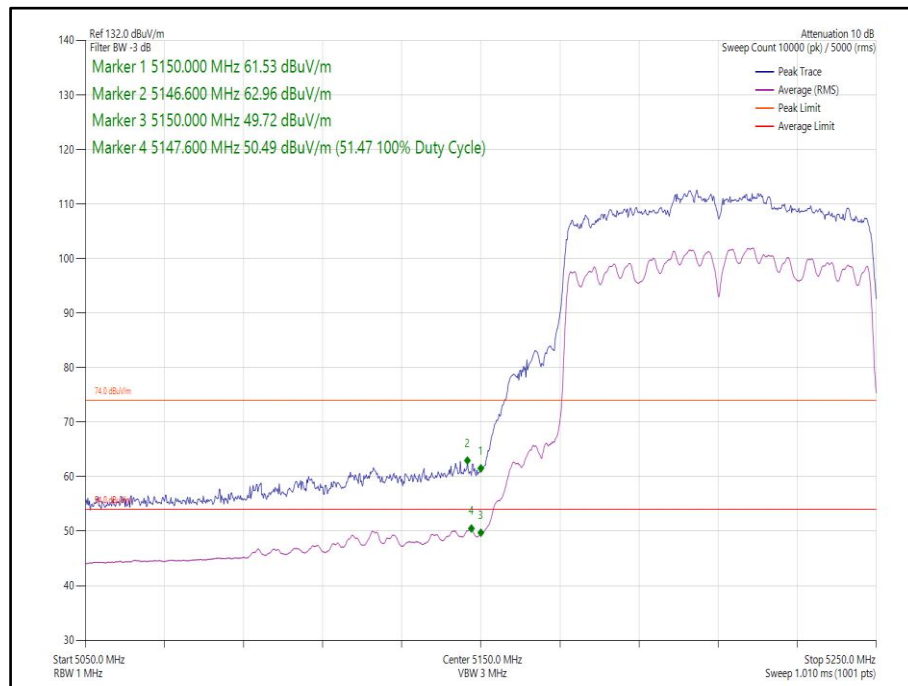
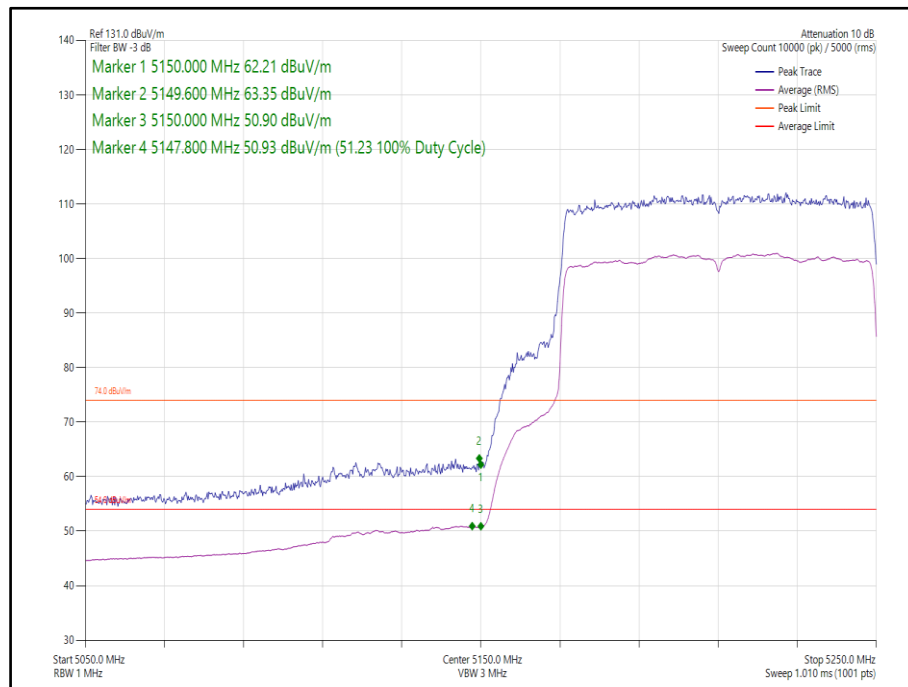
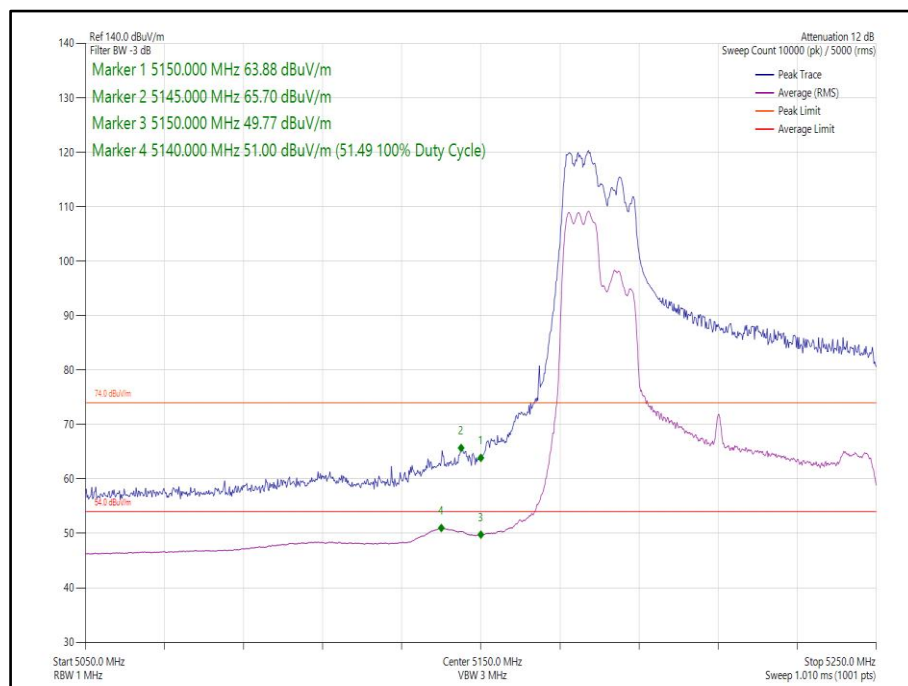


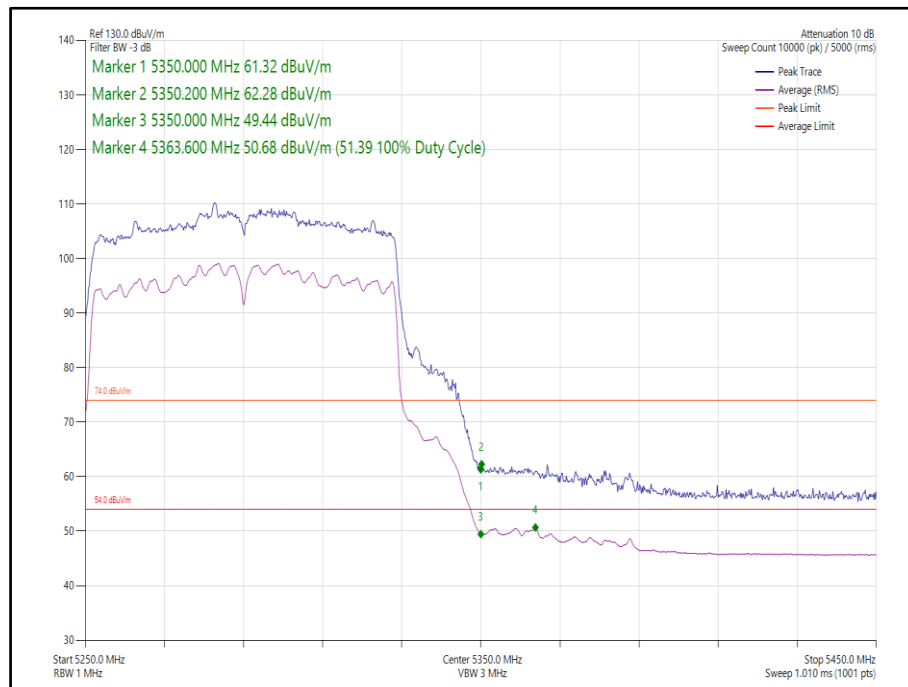
Figure 177 - 802.11ac, VHT80, SDM, Core 0-1 - 5210 MHz,
Band Edge Frequency 5150 MHz



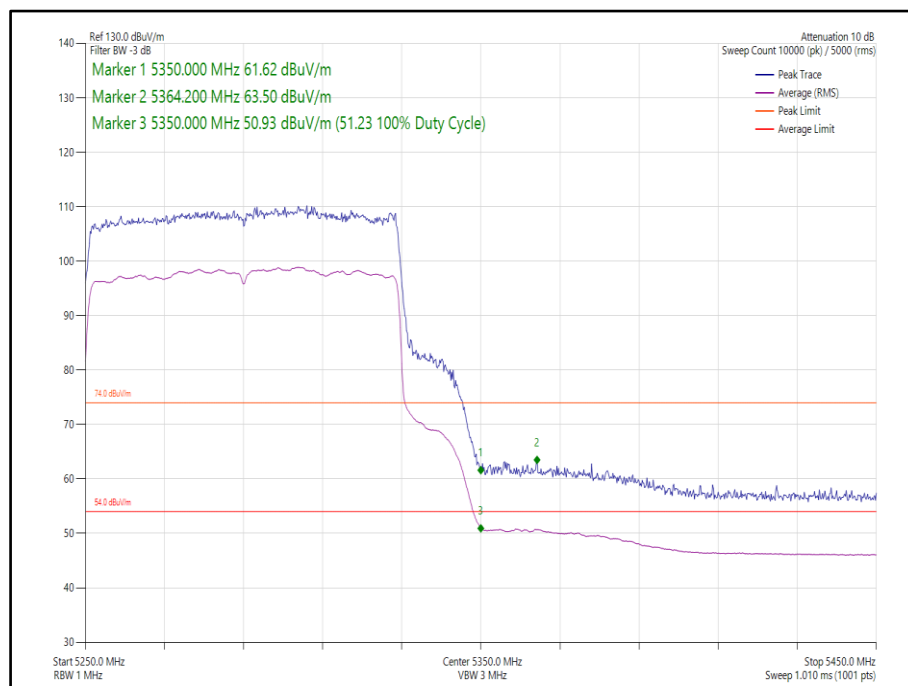
**Figure 178 - 802.11ax, HE80, SU, SDM, Core 0-1 - 5210 MHz,
Band Edge Frequency 5150 MHz**



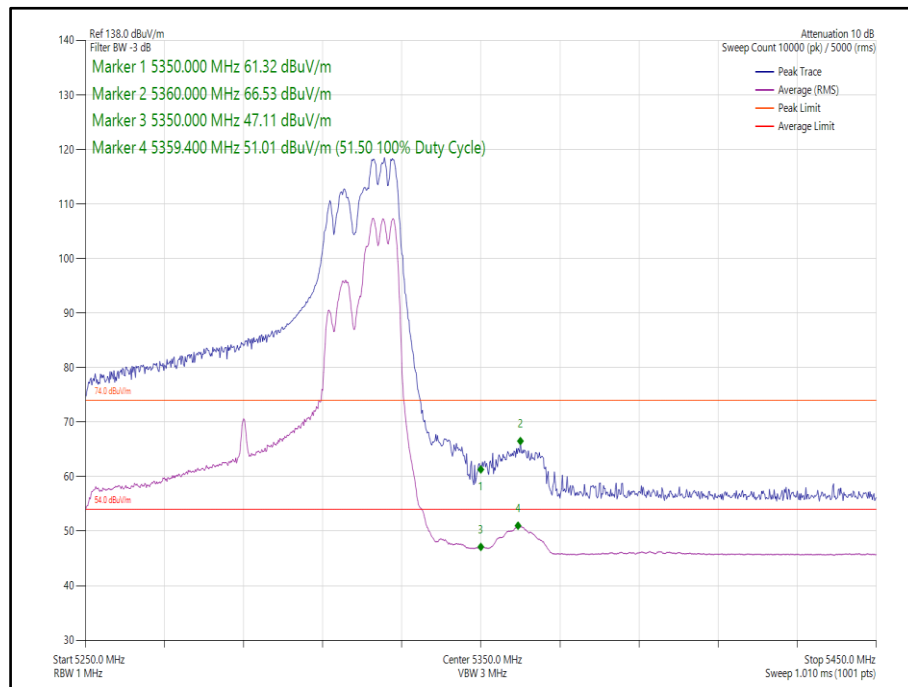
**Figure 179 - 802.11ax, HE80, RU 106-53, SDM, Core 0-1 - 5210 MHz,
Band Edge Frequency 5150 MHz**



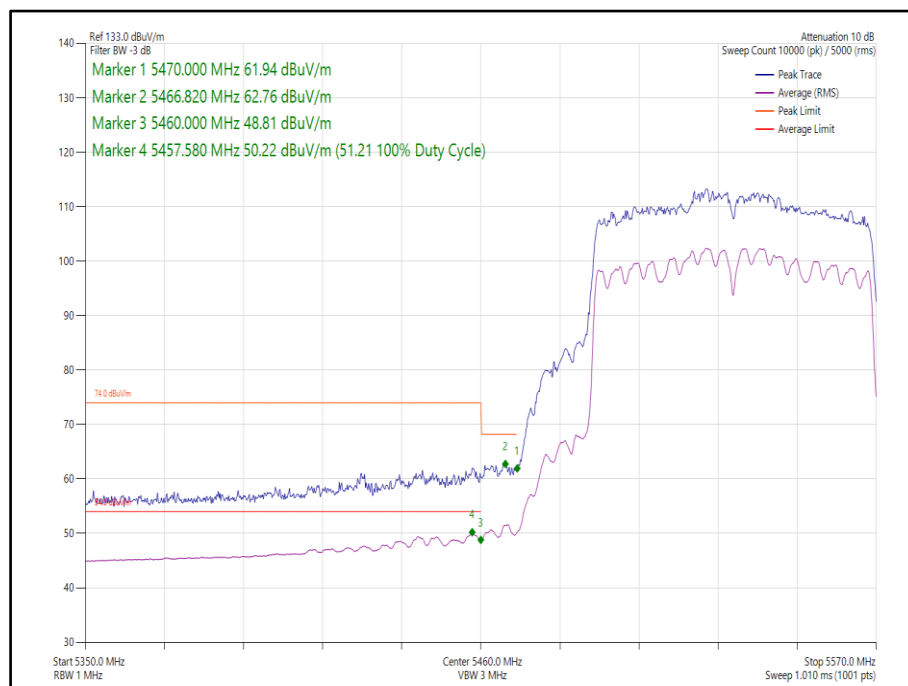
**Figure 180 - 802.11ac, VHT80, SDM, Core 0-1 - 5290 MHz,
Band Edge Frequency 5350 MHz**



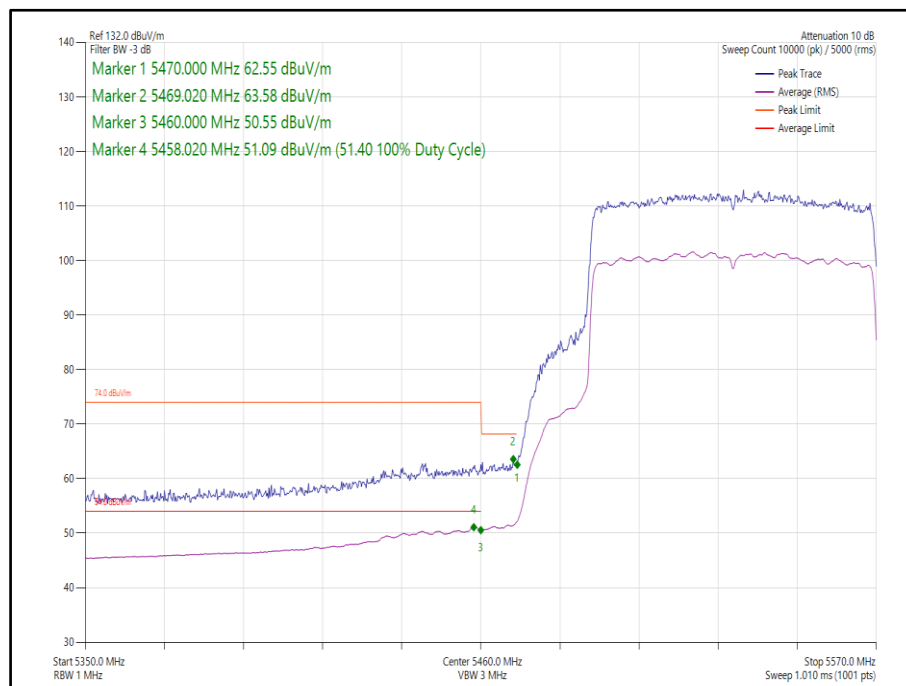
**Figure 181 - 802.11ax, HE80, SU, SDM, Core 0-1 - 5290 MHz,
Band Edge Frequency 5350 MHz**



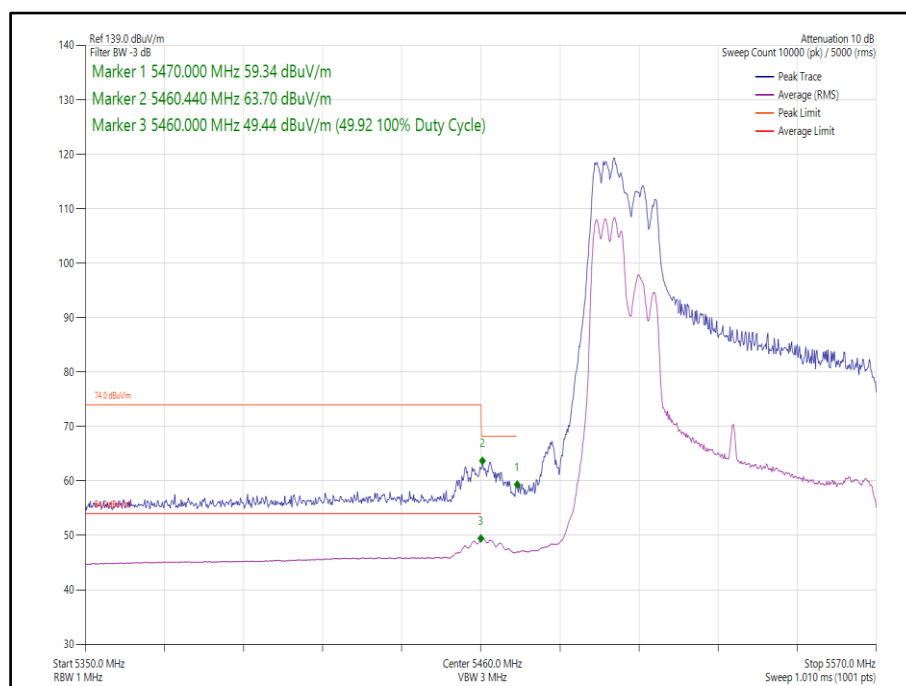
**Figure 182 - 802.11ax, HE80, RU 106-60, SDM, Core 0-1 - 5290 MHz,
Band Edge Frequency 5350 MHz**



**Figure 183 - 802.11ac, VHT80, SDM, Core 0-1 - 5530 MHz,
Band Edge Frequency 5460 MHz**



**Figure 184 - 802.11ax, HE80, SU, SDM, Core 0-1 - 5530 MHz,
Band Edge Frequency 5460 MHz**



**Figure 185 - 802.11ax, HE80, RU 106-53, SDM, Core 0-1 - 5530 MHz,
Band Edge Frequency 5460 MHz**



80 MHz Bandwidth - Core 0-1 (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	MCS2x1	-	-	5210	5150	58.75	47.47
802.11ac VHT80	MCS2x1	-	-	5290	5350	59.11	47.71
802.11ac VHT80	MCS2x1	-	-	5530	5460	63.41	49.14

Table 21 - TxBF Restricted Band Edge Results

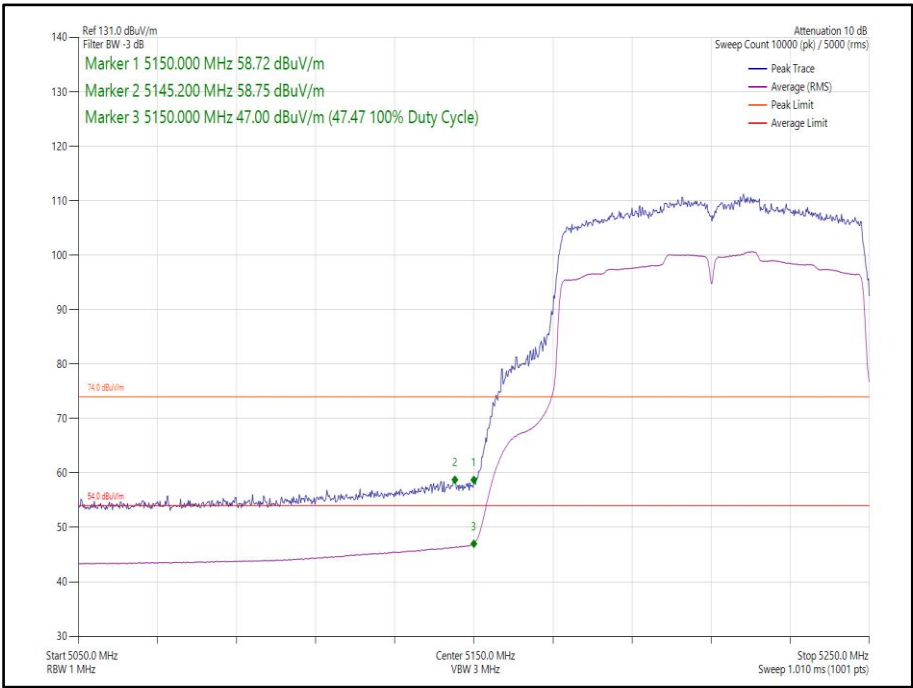
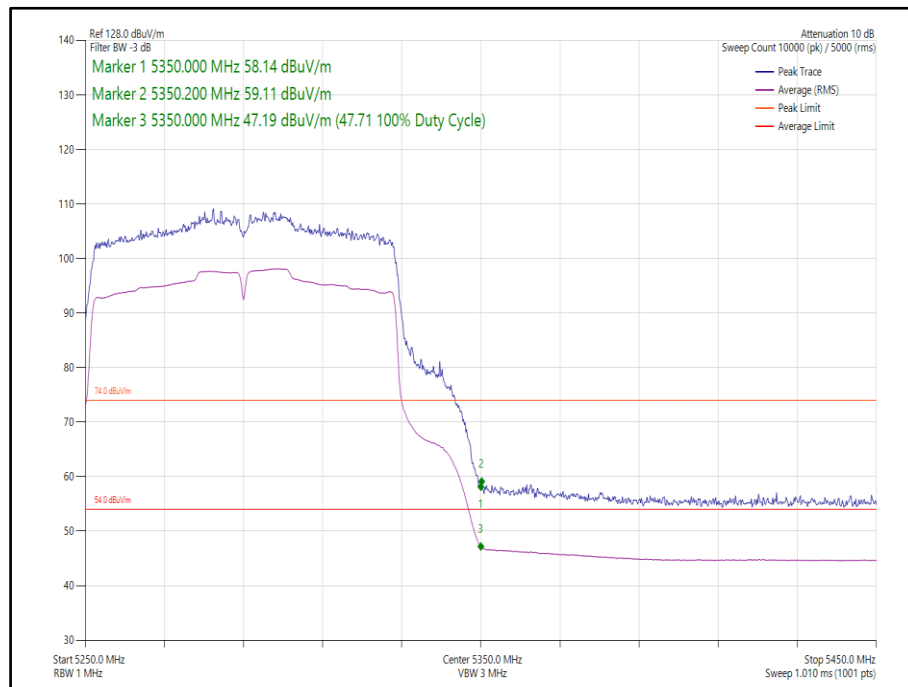
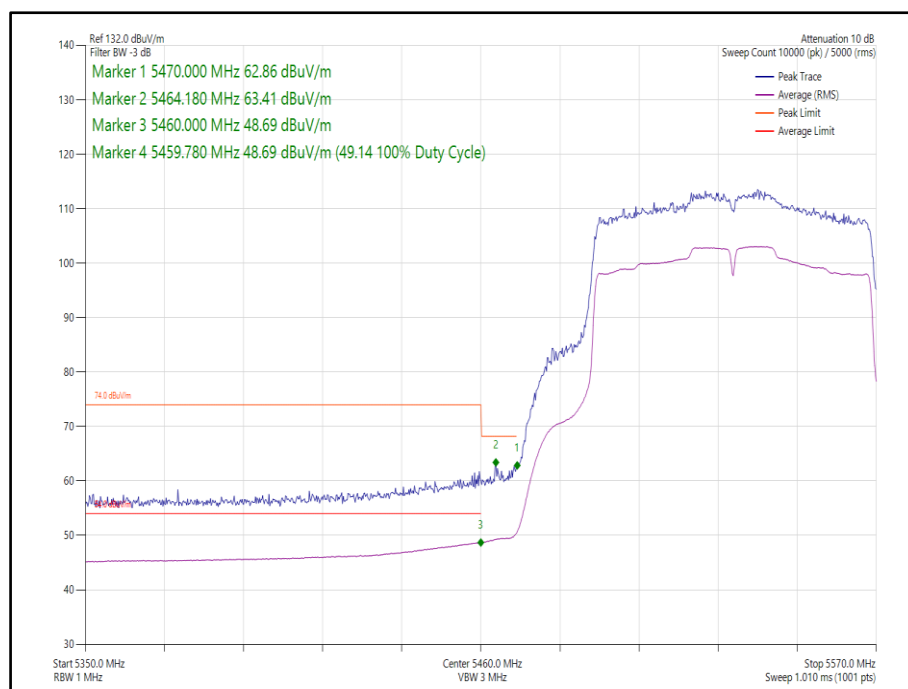


Figure 186 - 802.11ac, VHT80, TxBF, Core 0-1 - 5210 MHz,
Band Edge Frequency 5150 MHz



**Figure 187 - 802.11ac, VHT80, TxBF, Core 0-1 - 5290 MHz,
Band Edge Frequency 5350 MHz**



**Figure 188 - 802.11ac, VHT80, TxBF, Core 0-1 - 5530 MHz,
Band Edge Frequency 5460 MHz**

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



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

Table 22 - Restricted Band Edge Limit Table



2.1.7 Test Location and Test Equipment Used

This test was carried out in RF Chamber 15.

Instrument	Manufacturer	Type No.	TE No.	Calibration Period (months)	Calibration Expiry Date
Emissions Software	TUV SUD	EmX V3.1.10	5125	-	Software
EMI Test Receiver	Rohde & Schwarz	ESW44	5911	12	24-Mar-2023
Pre Amp 1 - 26.5 GHz	Agilent Technologies	8449B	5445	12	12-May-2023
1500W (300V 12A) AC Power Supply	iTech	IT7324	5956	-	O/P Mon
5m Semi-Anechoic Chamber (Dual-Axis)	Albatross Projects	RF Chamber 15	5963	36	28-Apr-2025
Mast & Turntable Controller	Maturo Gmbh	FCU3.0	5966	-	TU
Tilt Antenna Mast	Maturo Gmbh	BAM4.5-P	5967	-	TU
Turntable	Maturo Gmbh	TT1.5SI	5968	-	TU
Cable (SMA to SMA 1m)	Junkosha	MWX221-01000AMSAMS/A	5996	12	06-Jun-2023
Cable (SMA to SMA 1m)	Junkosha	MWX221-01000AMSAMS/A	6007	12	06-Jun-2023
Cable (SMA to SMA 6.5m)	Junkosha	MWX221-06500AMSAMS/B	6014	12	07-Jun-2023
Horn Antenna (1-10 GHz)	Schwarzbeck	BBHA9120B	6140	12	21-Jun-2023
Digital Multimeter	Fluke	115	6147	12	16-Jun-2023
Humidity & Temperature meter	R.S Components	1364	6150	12	17-Jun-2023
Coaxial Fixed Attenuator DC-18GHz 5W 10dB	RF-Lambda	RFS5G18B10SMP	6178	12	17-Jul-2023

Table 23

TU - Traceability Unscheduled

O/P Mon – Output Monitored using calibrated equipment



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

A2941, S/N: GMHGMQ4FCN - Modification State 0
A2941, S/N: GF6K93M959 - Modification State 0

2.2.3 Date of Test

08-March-2023 to 10-March-2023

2.2.4 Test Method

The test was performed in accordance with ANSI C63.10, clause 12.5.1 and 12.5.2 and ISED RSS-GEN, clause 4.6.1 and 4.6.2.

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	22.2 - 23.1 °C
Relative Humidity	26.2 - 29.1 %

2.2.6 Test Results

5 GHz WLAN

SISO

Protocol	26 dB Bandwidth (MHz)	
	Minimum	Maximum
802.11a	20.700	21.420
802.11n HT20	20.820	22.620
802.11n HT40	41.400	44.760
802.11ac VHT80	82.940	90.200
802.11ax HE20 SU	21.240	26.340
802.11ax HE40 SU	41.880	48.360
802.11ax HE80 SU	84.700	97.680

Table 24 - 26 dB Bandwidth Summary Results – SISO

Protocol	6 dB Bandwidth (MHz)	
	Minimum	Maximum
802.11a	16.080	16.140
802.11n HT20	17.580	17.640
802.11n HT40	35.520	35.880
802.11ac VHT80	75.680	75.680
802.11ax HE20 SU	19.080	19.140
802.11ax HE40 SU	38.280	38.400
802.11ax HE80 SU	78.320	78.320

Table 25 - 6 dB Bandwidth Summary Results – SISO

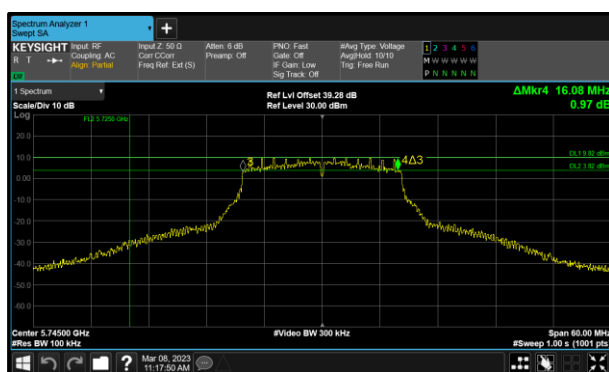


Figure 189 - 802.11a Minimum 6 dB EBW

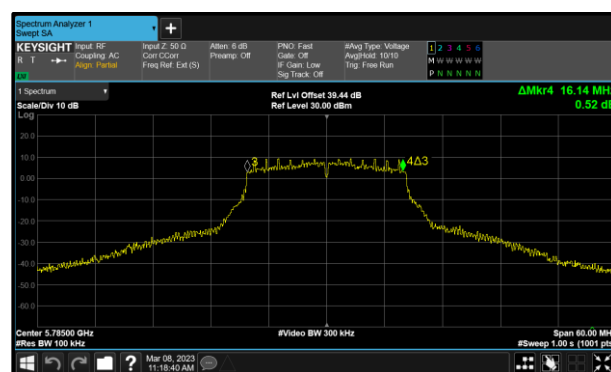


Figure 190 - 802.11a Maximum 6 dB EBW

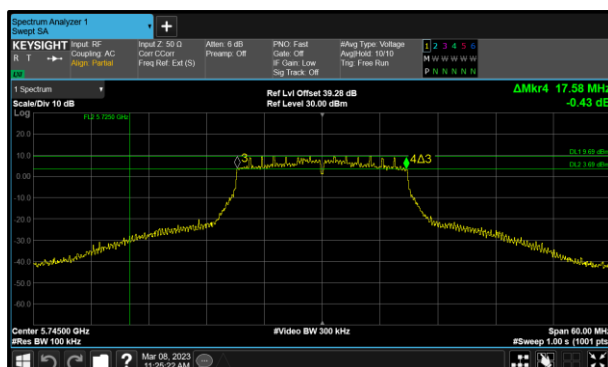


Figure 191 - 802.11n HT20 Minimum 6 dB EBW

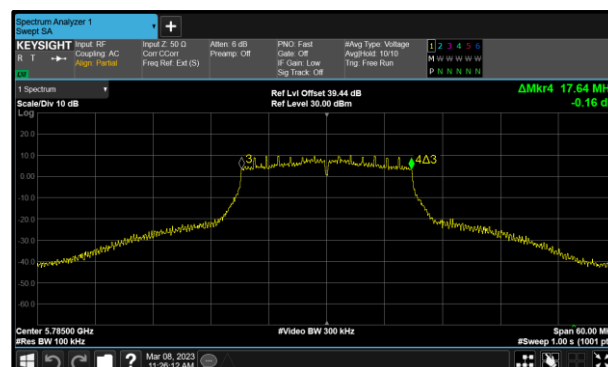


Figure 192 - 802.11n HT20 Maximum 6 dB EBW

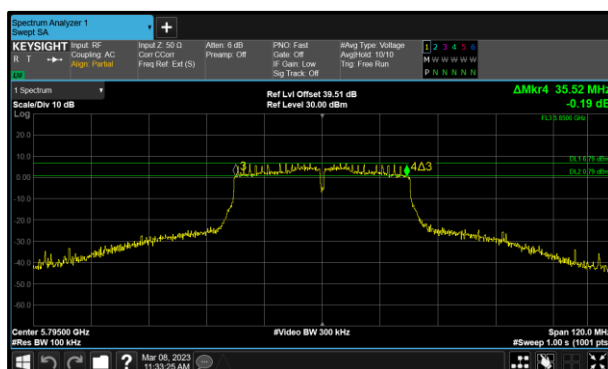


Figure 193 - 802.11n HT40 Minimum 6 dB EBW

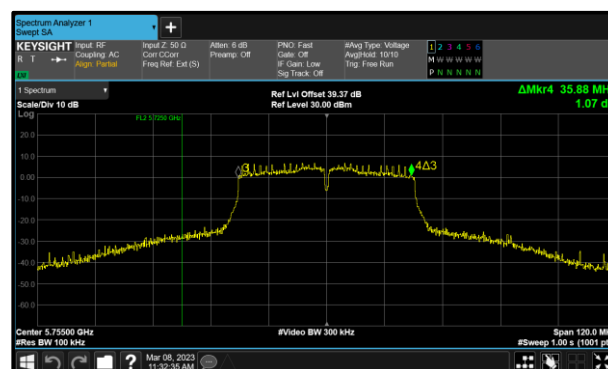


Figure 194 - 802.11n HT40 Maximum 6 dB EBW

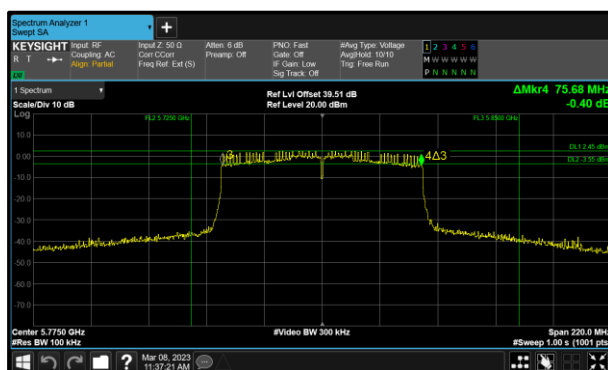


Figure 195 - 802.11ac VHT80 Minimum 6 dB EBW

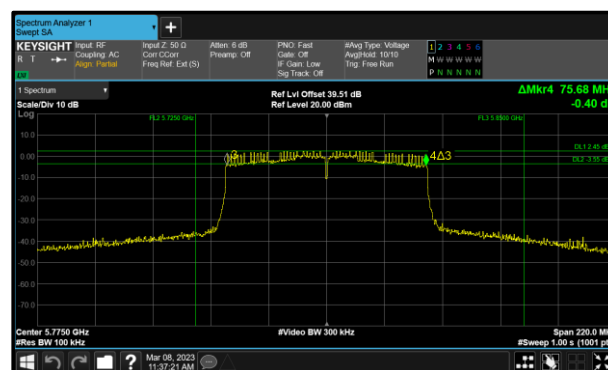


Figure 196 - 802.11ac VHT80 Maximum 6 dB EBW

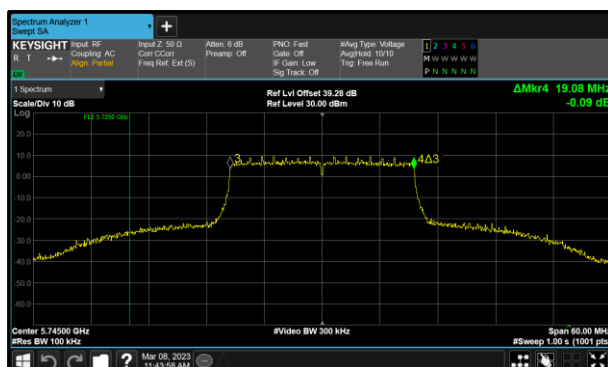


Figure 197 - 802.11ax HE20 SU
Minimum 6 dB EBW

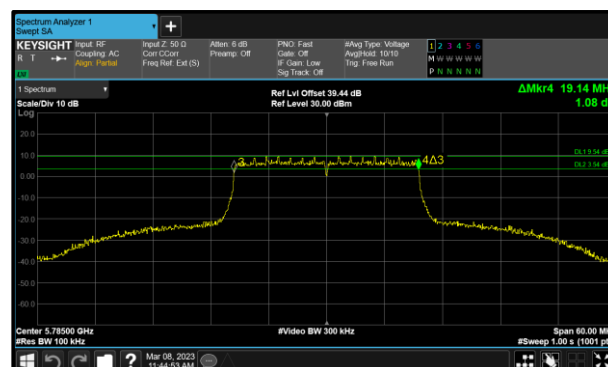


Figure 198 - 802.11ax HE20 SU
Maximum 6 dB EBW

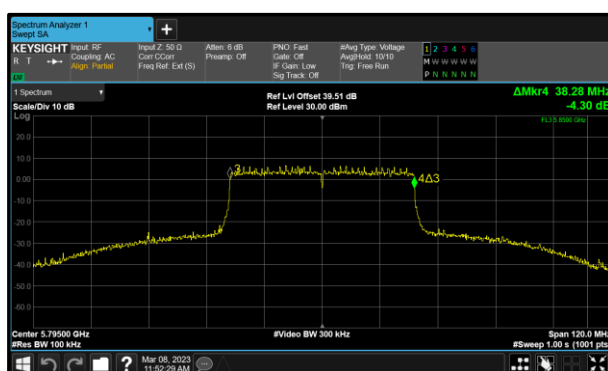


Figure 199 - 802.11ax HE40 SU
Minimum 6 dB EBW

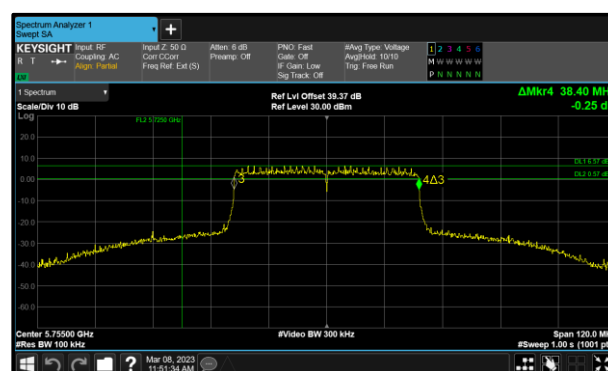


Figure 200 - 802.11ax HE40 SU
Maximum 6 dB EBW

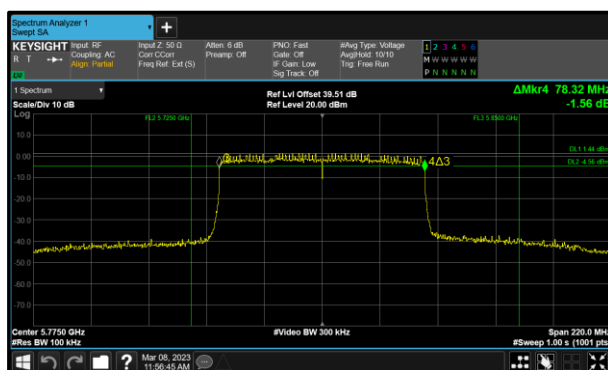


Figure 201 - 802.11ax HE80 SU
Minimum 6 dB EBW

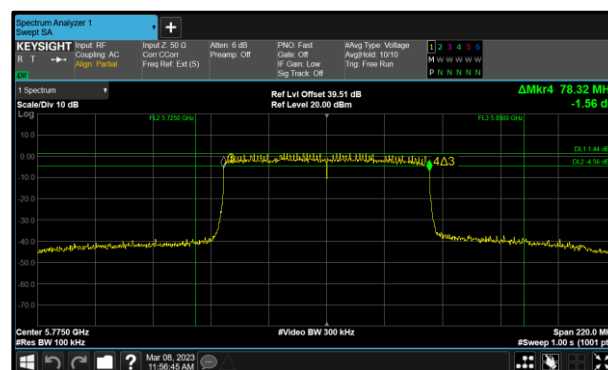


Figure 202 - 802.11ax HE80 SU
Maximum 6 dB EBW