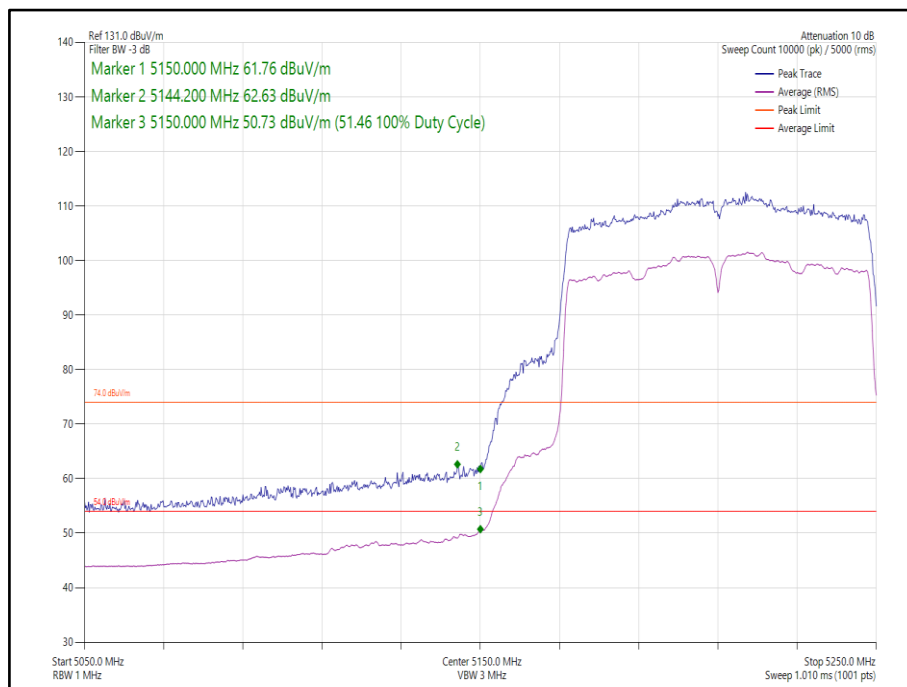




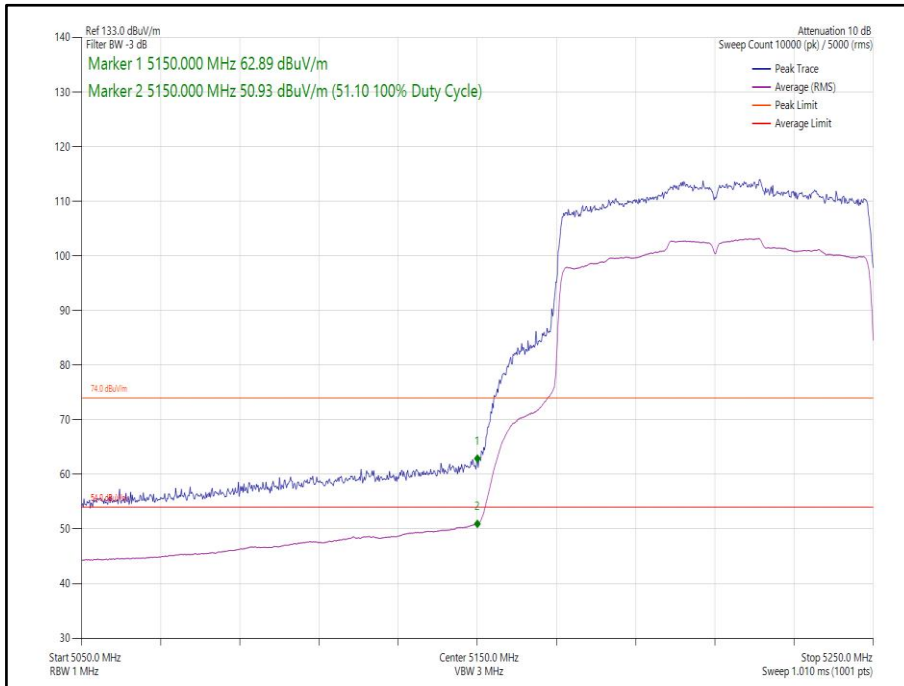
80 MHz Bandwidth (SISO)

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, Core 0	MCS 4x1	-	-	5210	5150	62.63	51.46
802.11ax HE80, Core 0	MCS 11x1	SU	-	5210	5150	62.89	51.10
802.11ax HE80, Core 0	MCS 11x1	26	0	5210	5150	61.86	45.49
802.11ac VHT80, Core 0	MCS 8x1	-	-	5290	5350	64.92	51.48
802.11ax HE80, Core 0	MCS 4x1	SU	-	5290	5350	50.77	51.20
802.11ax HE80, Core 0	MCS 11x1	52	52	5290	5350	68.94	48.01
802.11ac VHT80, Core 1	MCS 4x1	-	-	5530	5460	-	50.93
802.11ax HE80, Core 1	MCS 4x1	SU	-	5530	5460	-	50.14
802.11ax HE80, Core 1	MCS 11x1	52	37	5530	5460	-	47.36

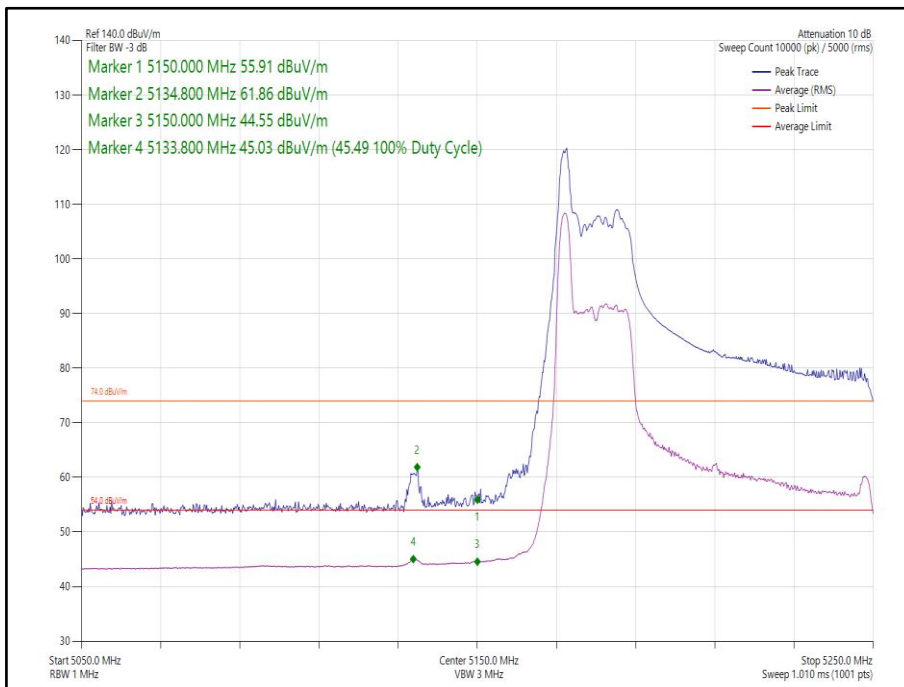
Table 11 - SISO Restricted Band Edge Results



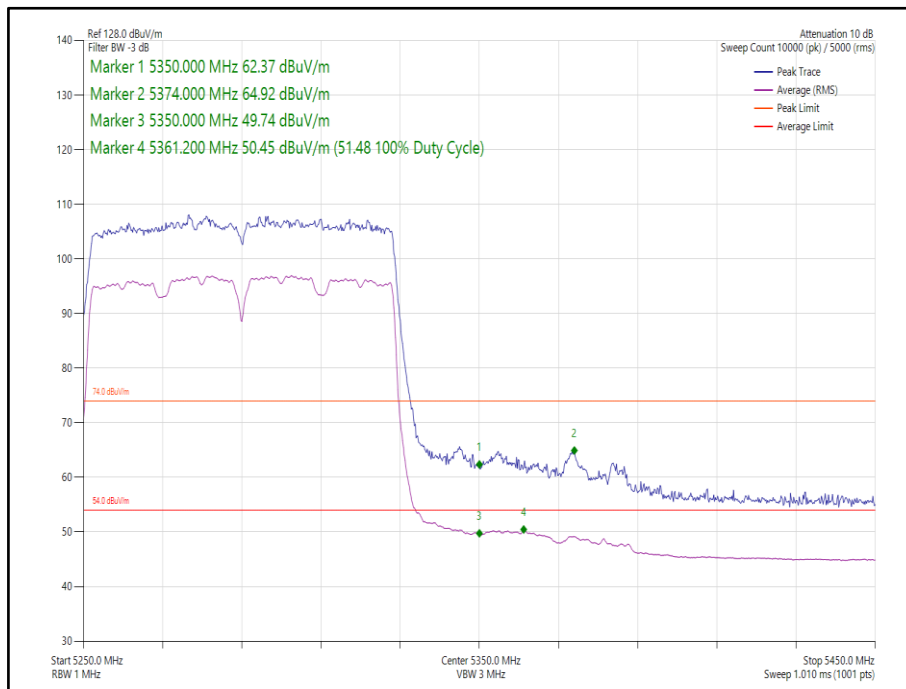
**Figure 58 - 802.11ac VHT80, Core 0 - 5210 MHz
 Band Edge Frequency 5150 MHz**



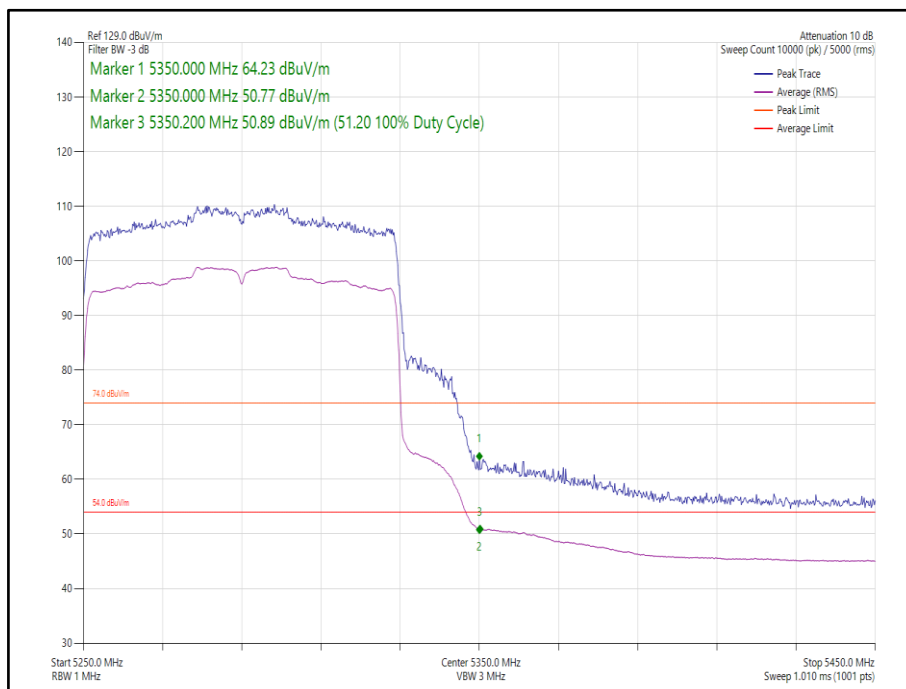
**Figure 59 - 802.11ax HE80, Core 0, SU - 5210 MHz
Band Edge Frequency 5150 MHz**



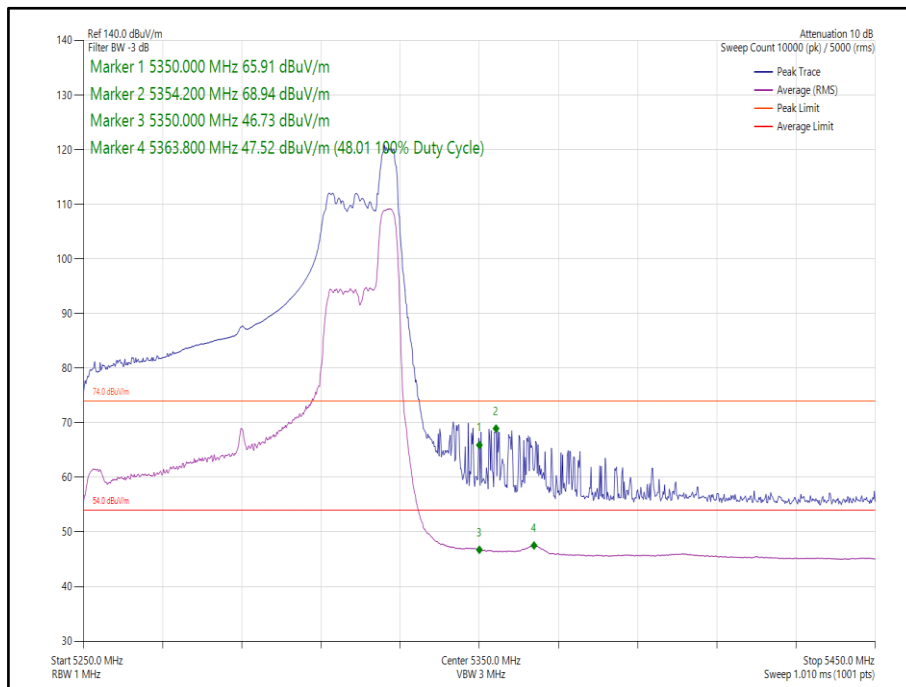
**Figure 60 - 802.11ax HE80, Core 0, 26-0 - 5210 MHz
Band Edge Frequency 5150 MHz**



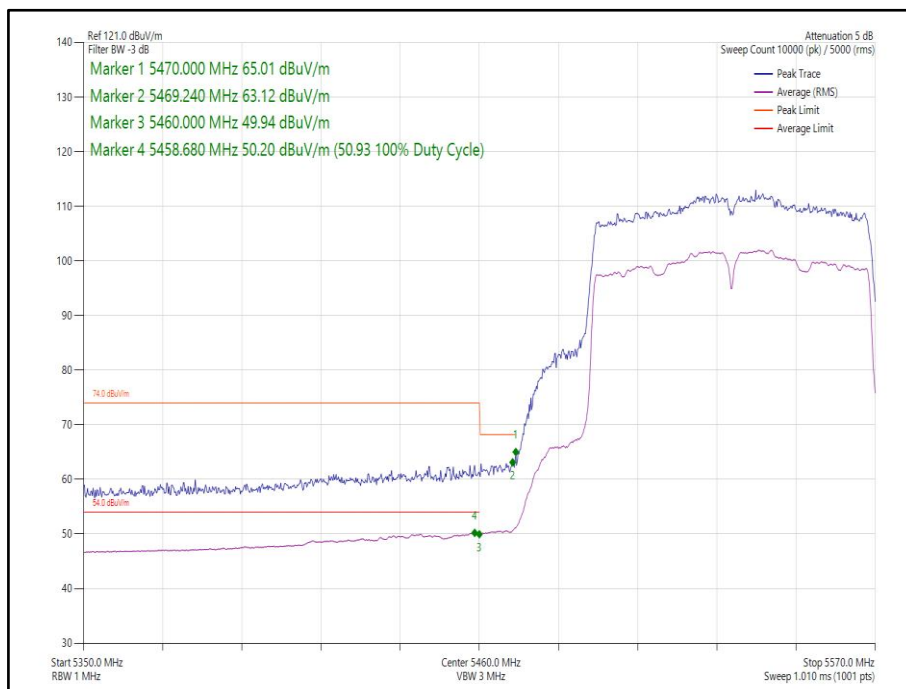
**Figure 61 - 802.11ac VHT80, Core 0 - 5290 MHz
Band Edge Frequency 5350 MHz**



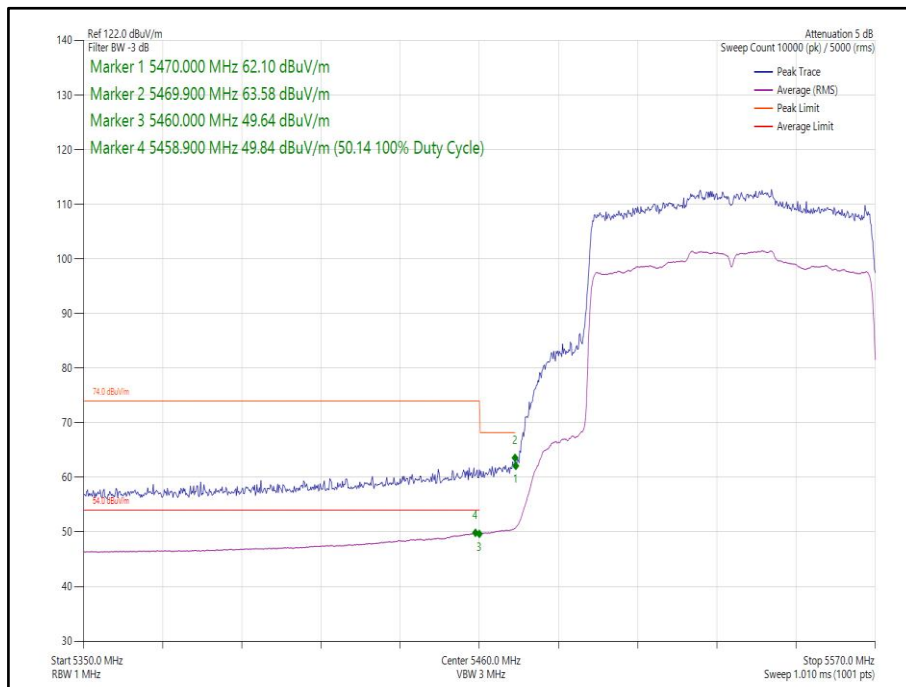
**Figure 62 - 802.11ax HE80, Core 0, SU - 5290 MHz
Band Edge Frequency 5350 MHz**



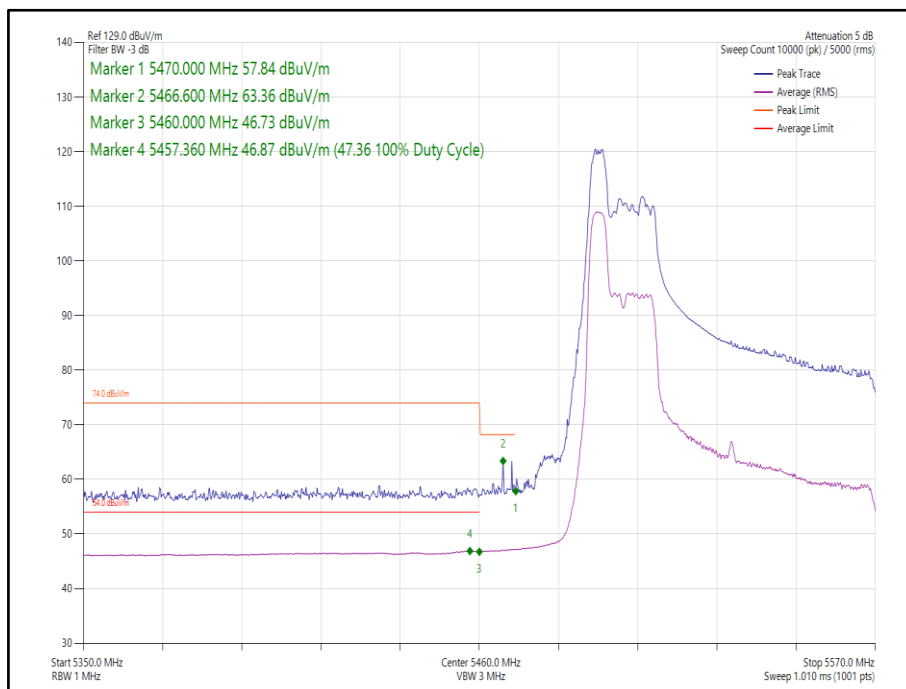
**Figure 63 - 802.11ax HE80, Core 0, 52-52 - 5290 MHz
Band Edge Frequency 5350 MHz**



**Figure 64 - 802.11ac VHT80, Core 1 - 5530 MHz
Band Edge Frequency 5460 MHz**



**Figure 65 - 802.11ax HE80, Core 1, SU - 5530 MHz
Band Edge Frequency 5490 MHz**



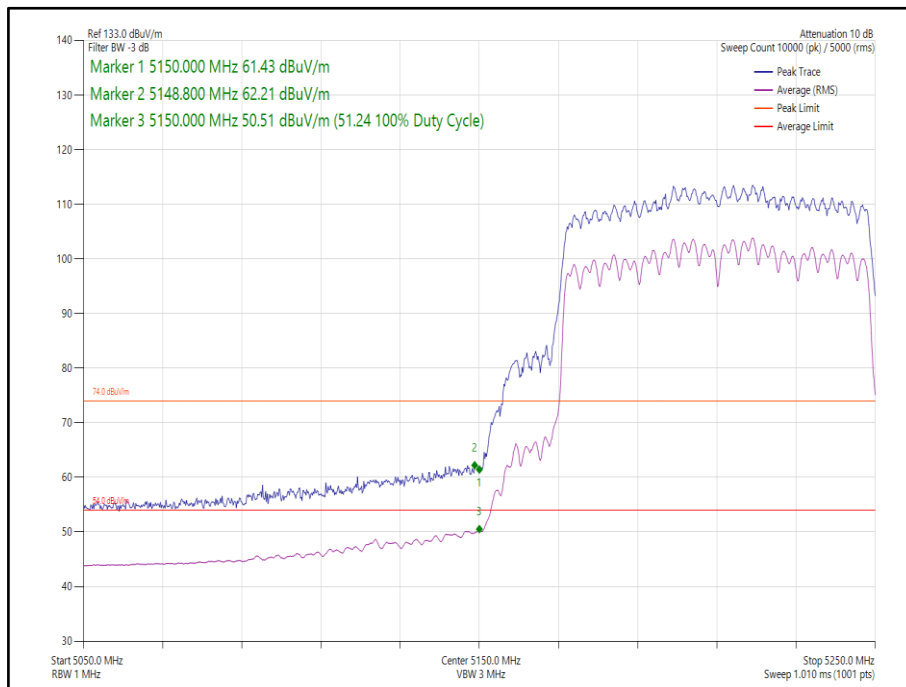
**Figure 66 - 802.11ax HE80, Core 1, 52-37 - 5530 MHz
Band Edge Frequency 5350 MHz**



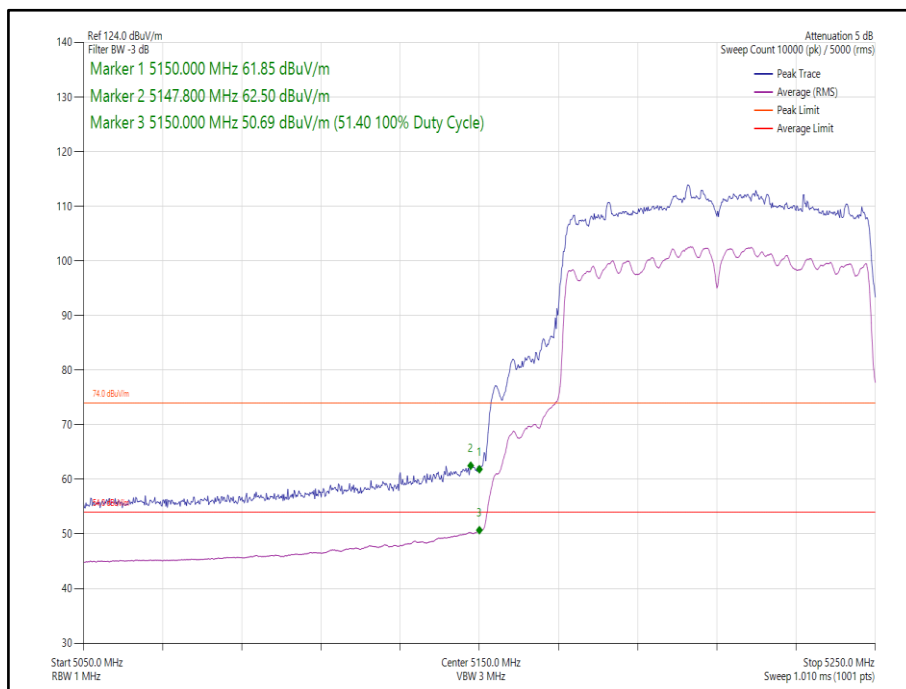
80 MHz Bandwidth (2TX MIMO)

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 CDD, Cores 0-1	MCS 4x1	-	-	5210	5150	62.21	51.24
802.11ac VHT80 SDM, Cores 0-1	MCS 2x2	-	-	5210	5150	62.50	51.40
802.11ax HE80 CDD, Cores 0-1	MCS 4x1	SU	-	5210	5150	63.06	51.47
802.11ax HE80 CDD, Cores 0-1	MCS 11x1	26	0	5210	5150	62.00	46.97
802.11ax HE80 SDM, Cores 0-1	MCS 11x2	SU	-	5210	5150	69.40	51.03
802.11ax HE80 SDM, Cores 0-1	MCS 11x2	26	0	5210	5150	66.12	49.14
802.11ac VHT80 CDD, Cores 0-1	MCS 2x1	-	-	5290	5350	61.95	51.31
802.11ac VHT80 SDM, Cores 0-1	MCS 2x2	-	-	5290	5350	61.99	50.93
802.11ax HE80 CDD, Cores 0-1	MCS 4x1	SU	-	5290	5350	64.49	51.45
802.11ax HE80 CDD, Cores 0-1	MCS 11x1	52	52	5290	5350	68.21	50.70
802.11ax HE80 SDM, Cores 0-1	MCS 11x2	SU	-	5290	5350	64.21	51.30
802.11ax HE80 SDM, Cores 0-1	MCS 11x2	52	52	5290	5350	69.01	51.40
802.11ac VHT80 CDD, Cores 0-1	MCS 4x1	-	-	5530	5460	-	50.87
802.11ac VHT80 SDM, Cores 0-1	MCS 4x2	-	-	5530	5460	-	50.71
802.11ax HE80 CDD, Cores 0-1	MCS 2x1	SU	-	5530	5460	-	51.42
802.11ax HE80 CDD, Cores 0-1	MCS 11x1	52	37	5530	5460	-	51.04
802.11ax HE80 SDM, Cores 0-1	MCS 2x2	SU	-	5530	5460	-	50.63
802.11ax HE80 SDM, Cores 0-1	MCS 11x2	52	37	5530	5460	-	50.15

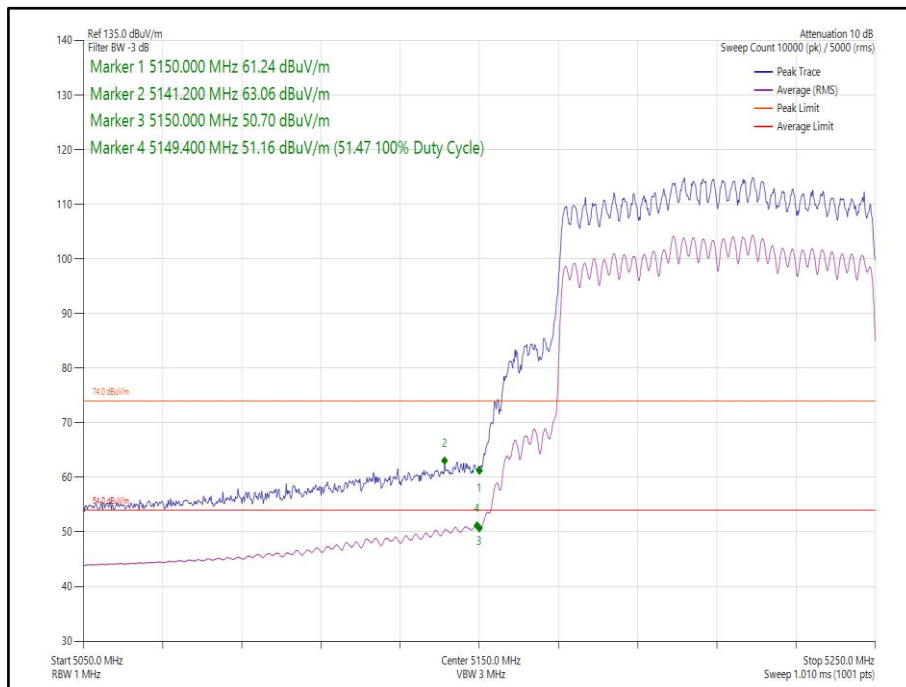
Table 12 - MIMO 2TX Restricted Band Edge Results



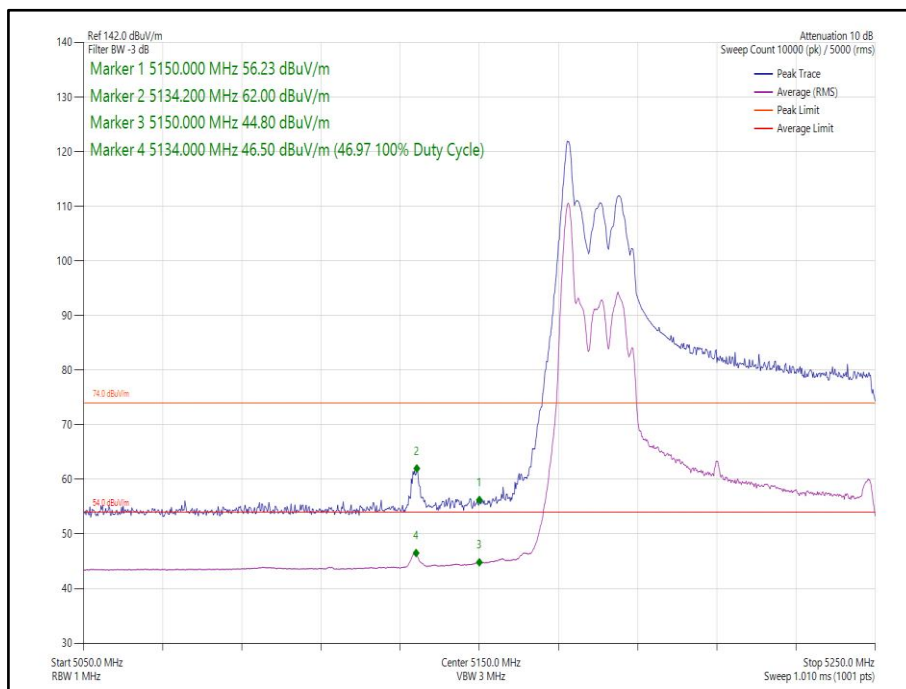
**Figure 67 - 802.11ac VHT80 CDD, Cores 0-1- 5210 MHz
Band Edge Frequency 5150 MHz**



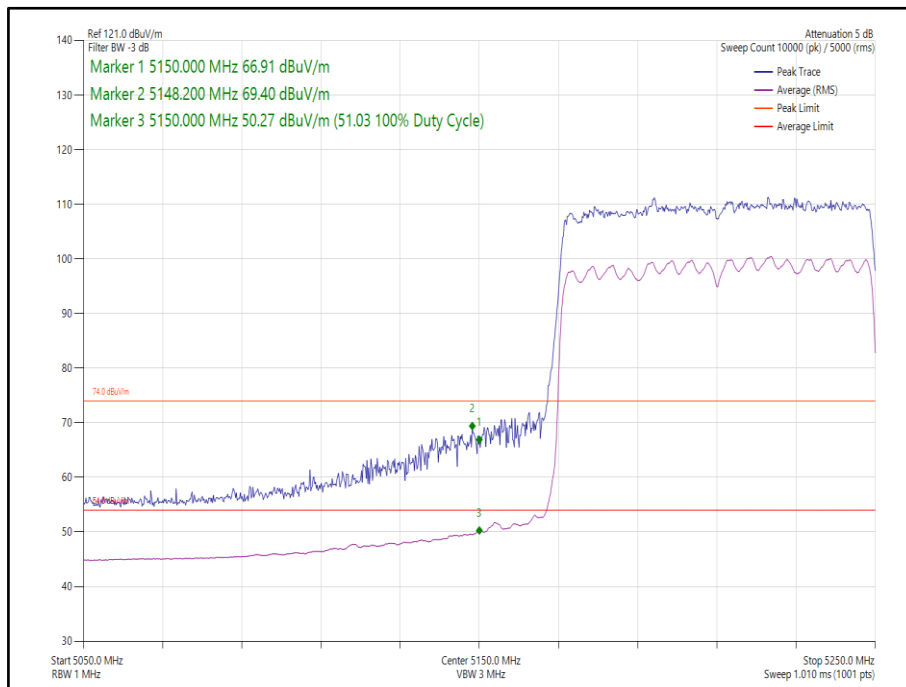
**Figure 68 - 802.11ac VHT80 SDM, Cores 0-1- 5210 MHz
Band Edge Frequency 5150 MHz**



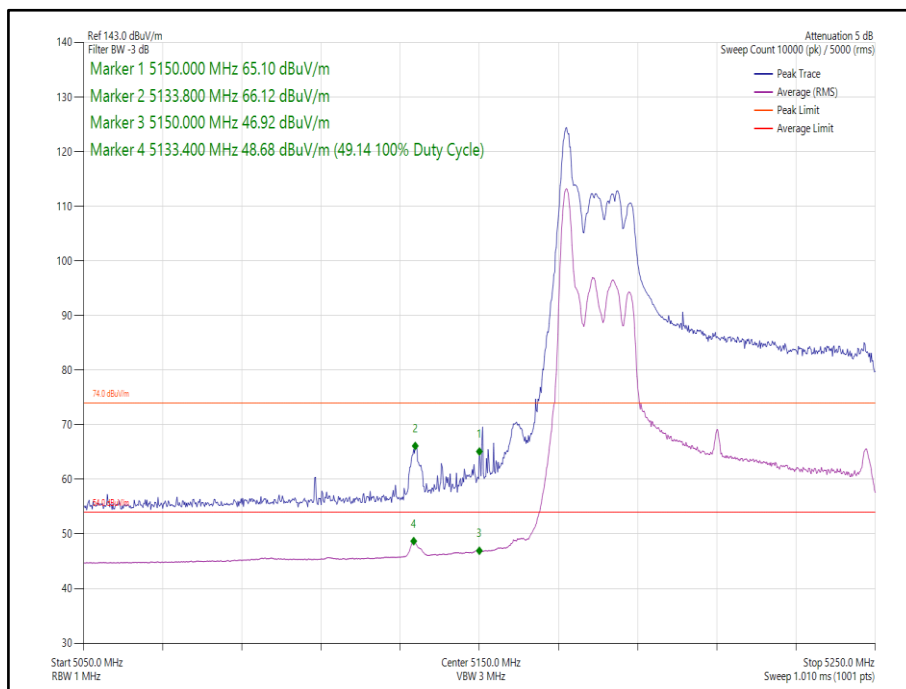
**Figure 69 - 802.11ax HE80 CDD, Cores 0-1, SU - 5210 MHz
Band Edge Frequency 5150 MHz**



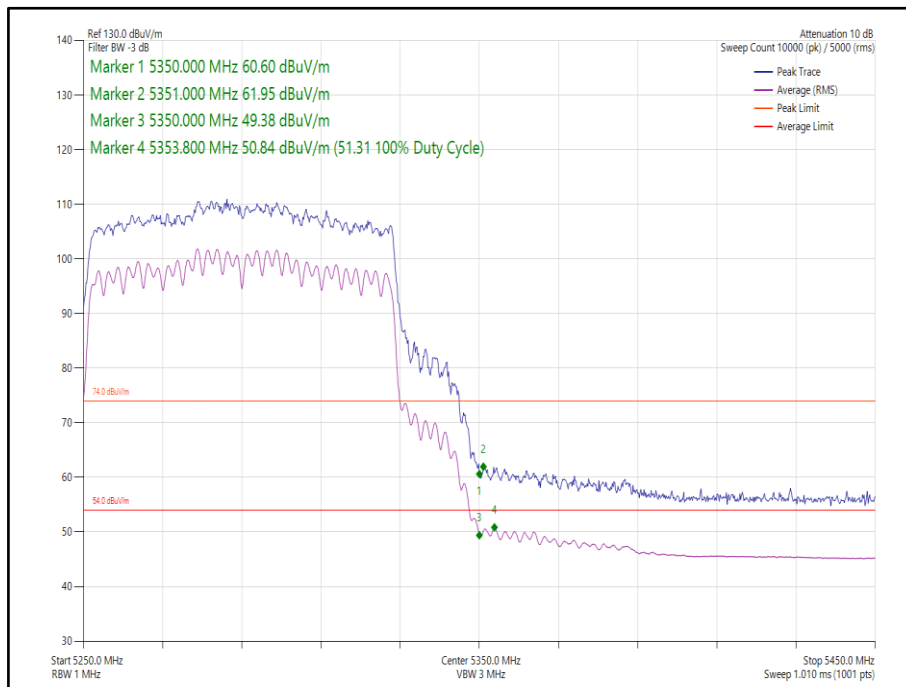
**Figure 70 - 802.11ax HE80 CDD, Cores 0-1, 26-0 - 5210 MHz
Band Edge Frequency 5150 MHz**



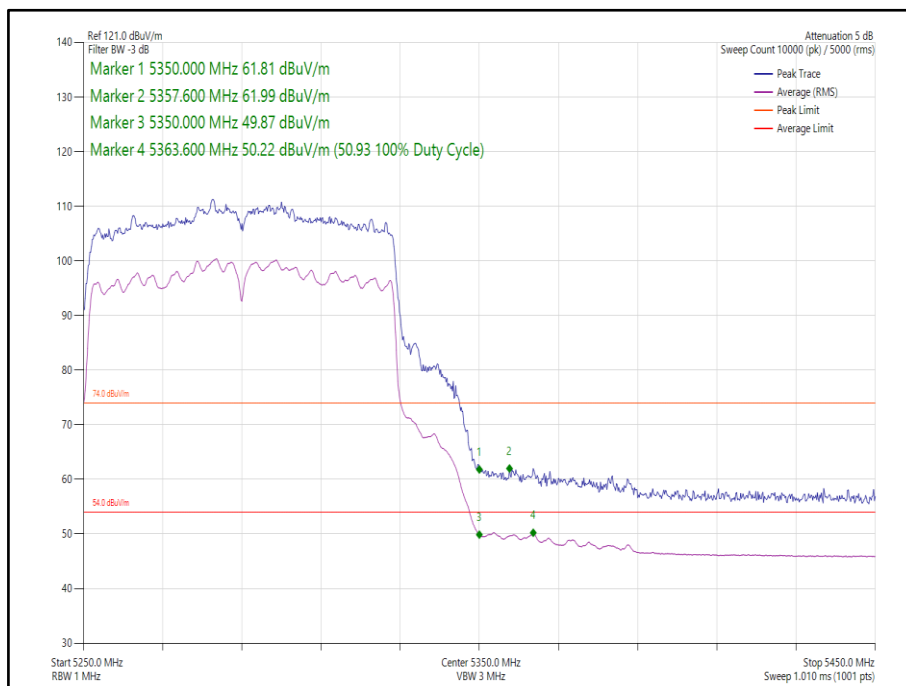
**Figure 71 - 802.11ax HE80 SDM, Cores 0-1, SU - 5210 MHz
Band Edge Frequency 5150 MHz**



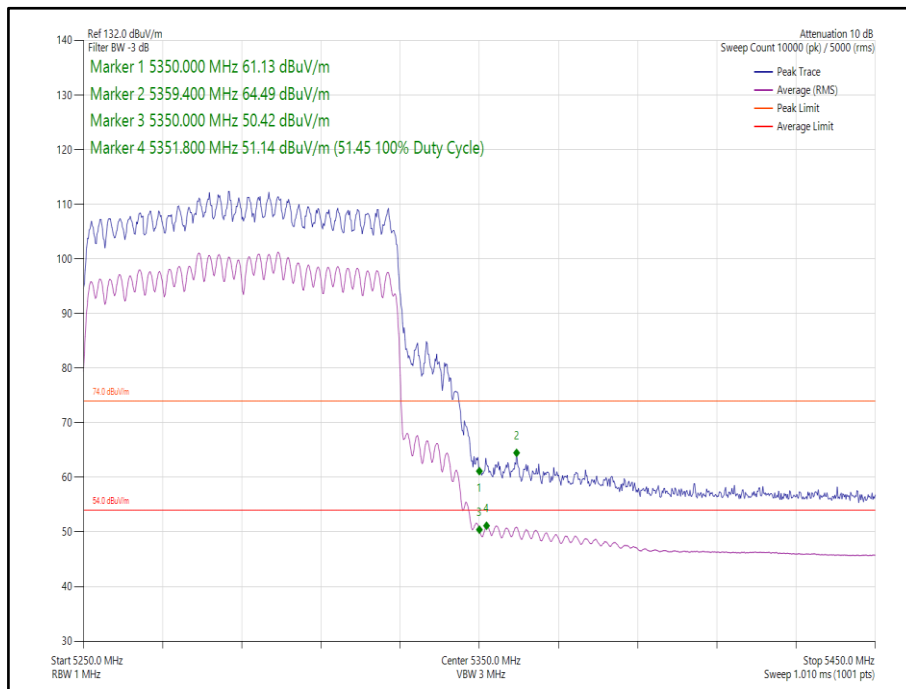
**Figure 72 - 802.11ax HE80 SDM, Cores 0-1, 26-0 - 5210 MHz
Band Edge Frequency 5150 MHz**



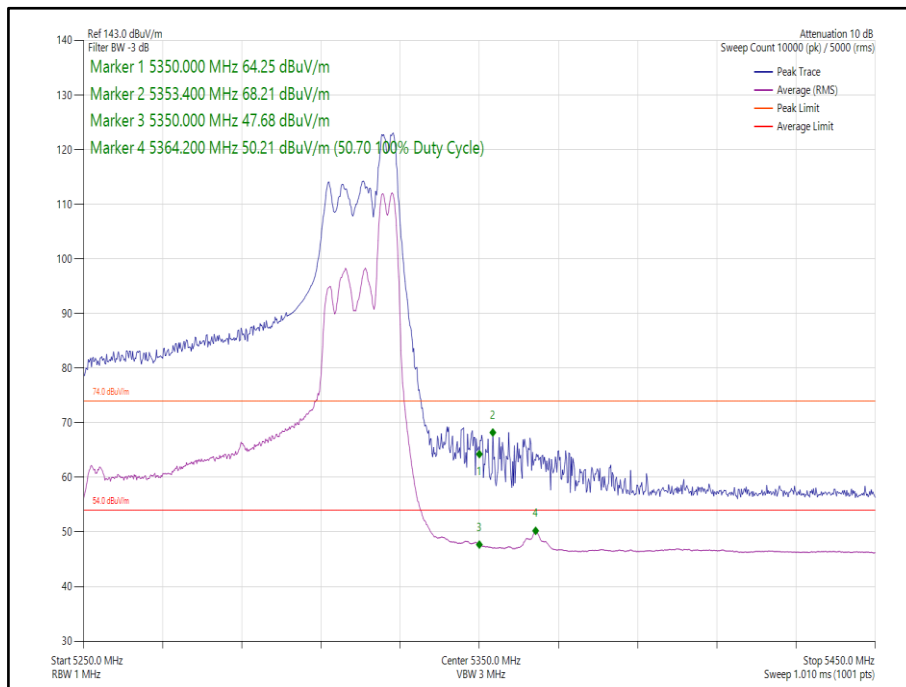
**Figure 73 - 802.11ac VHT80 CDD, Cores 0-1- 5290 MHz
Band Edge Frequency 5350 MHz**



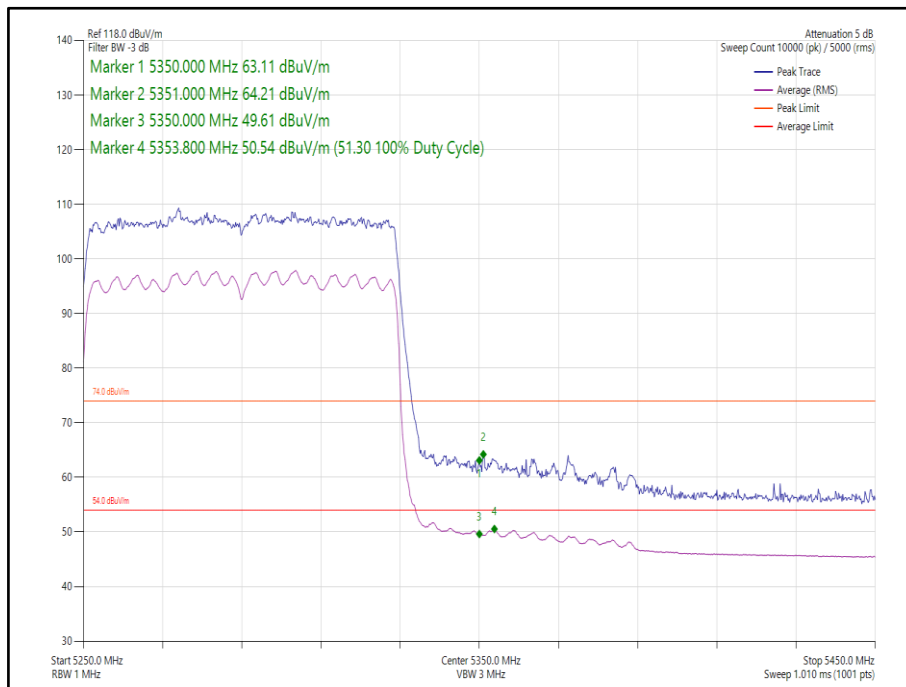
**Figure 74 - 802.11ac VHT80 SDM, Cores 0-1- 5290 MHz
Band Edge Frequency 5350 MHz**



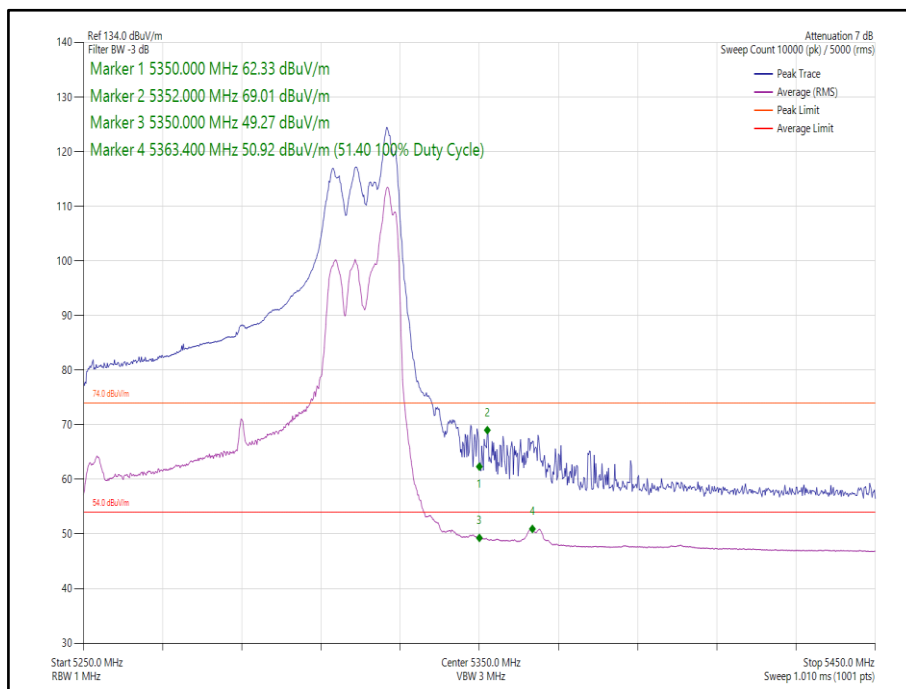
**Figure 75 - 802.11ax HE80 CDD, Cores 0-1, SU - 5290 MHz
Band Edge Frequency 5350 MHz**



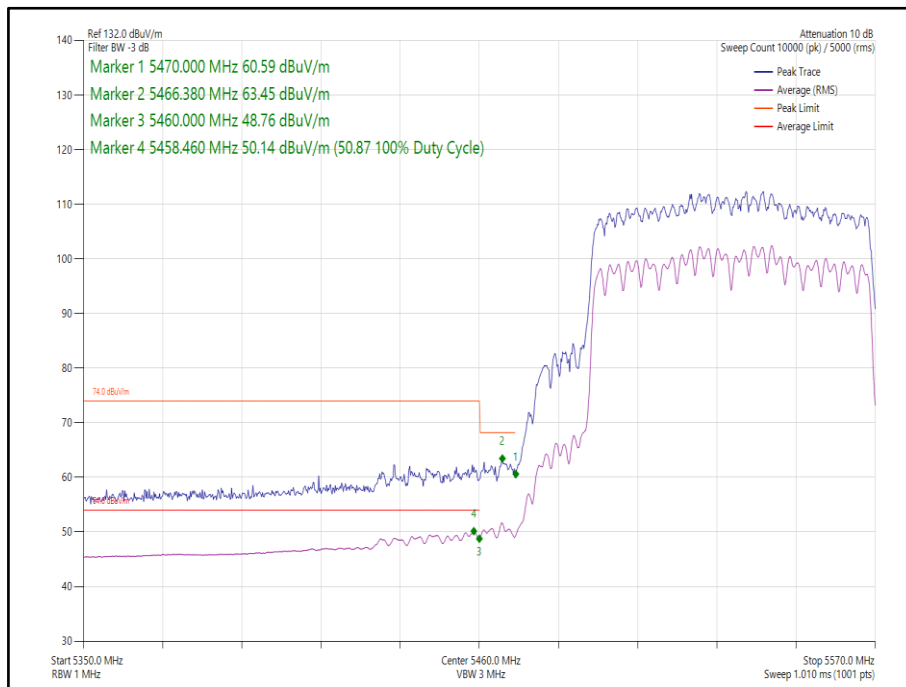
**Figure 76 - 802.11ax HE80 CDD, Cores 0-1, 52-52- 5290 MHz
Band Edge Frequency 5350 MHz**



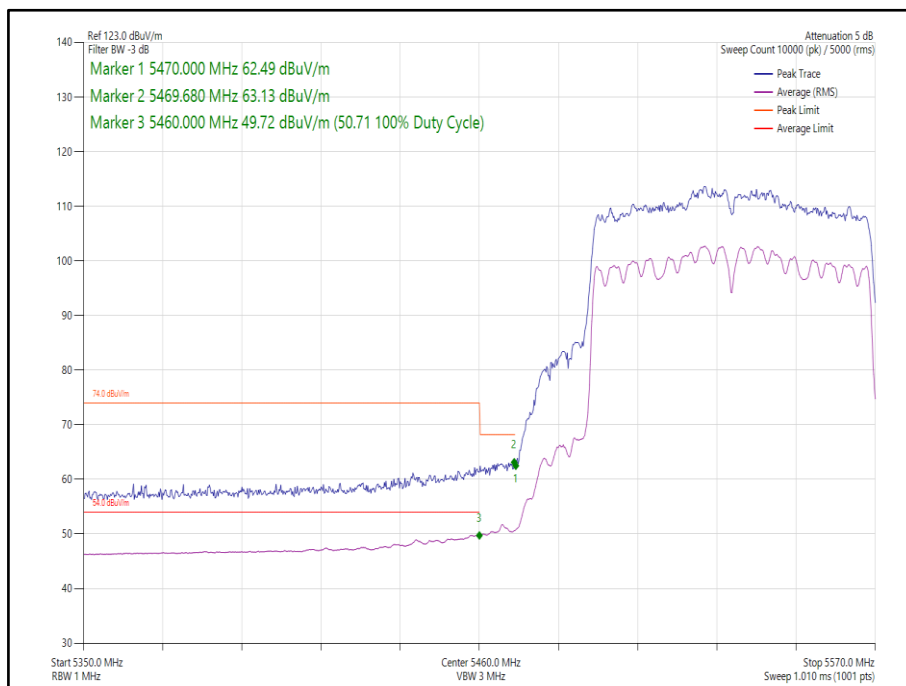
**Figure 77 - 802.11ax HE80 SDM, Cores 0-1, SU - 5290 MHz
Band Edge Frequency 5350 MHz**



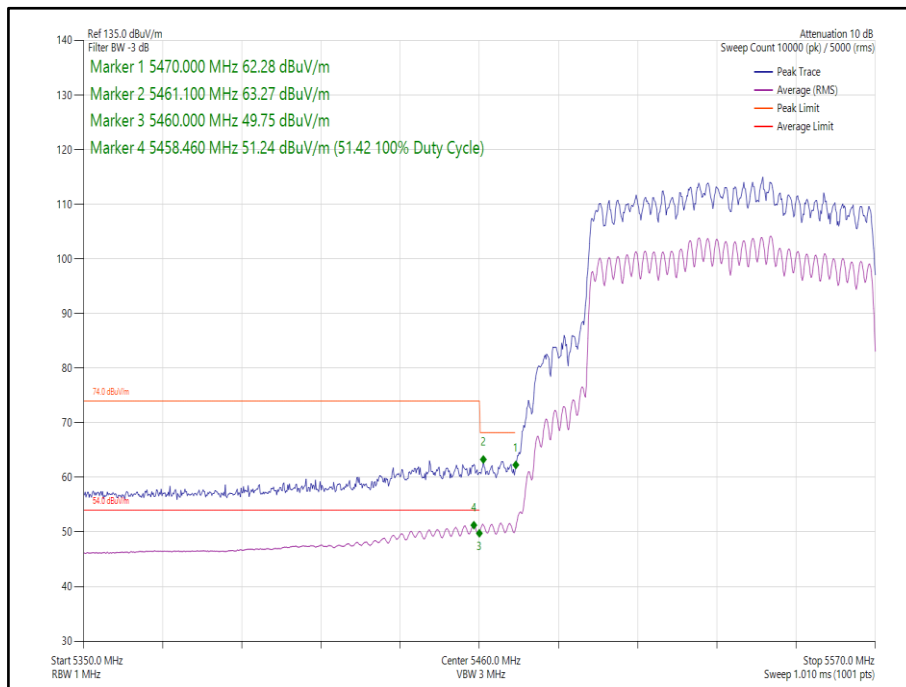
**Figure 78 - 802.11ax HE80 SDM, Cores 0-1, 52-52- 5290 MHz
Band Edge Frequency 5350 MHz**



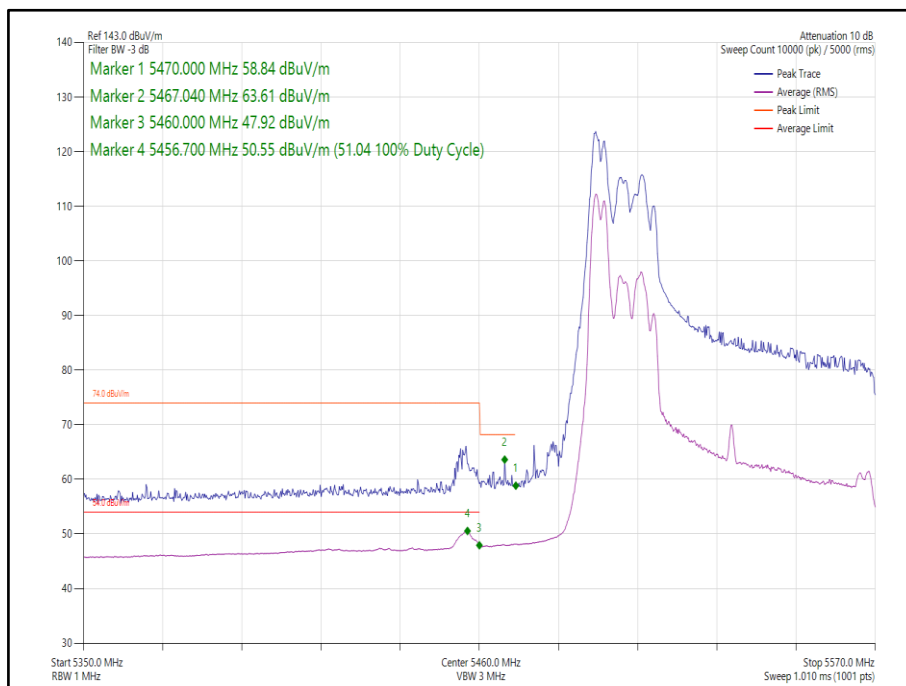
**Figure 79 - 802.11ac VHT80 CDD, Cores 0-1- 5530 MHz
Band Edge Frequency 5460 MHz**



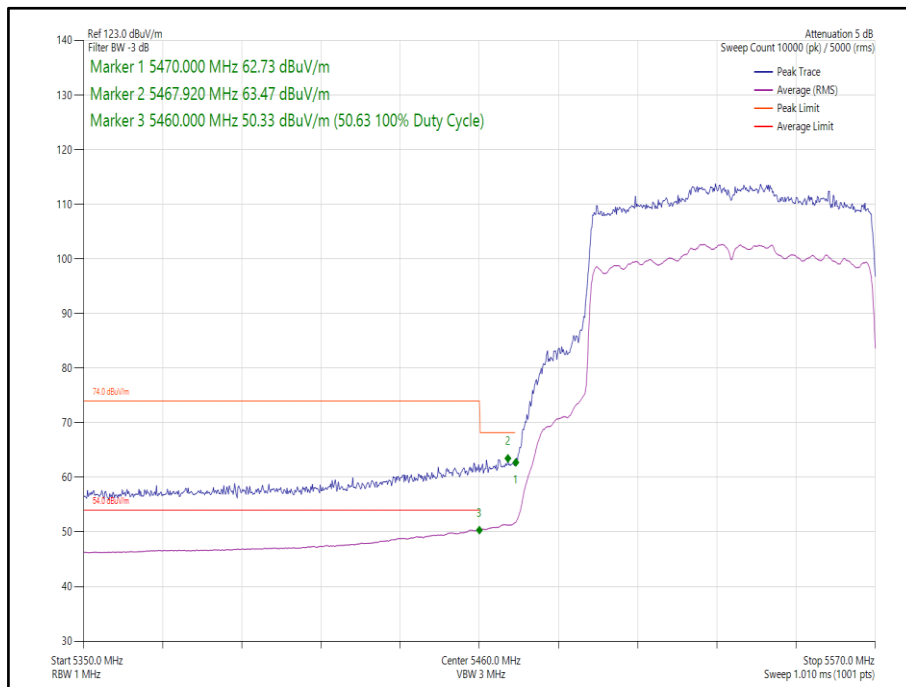
**Figure 80 - 802.11ac VHT80 SDM, Cores 0-1- 5530 MHz
Band Edge Frequency 5460 MHz**



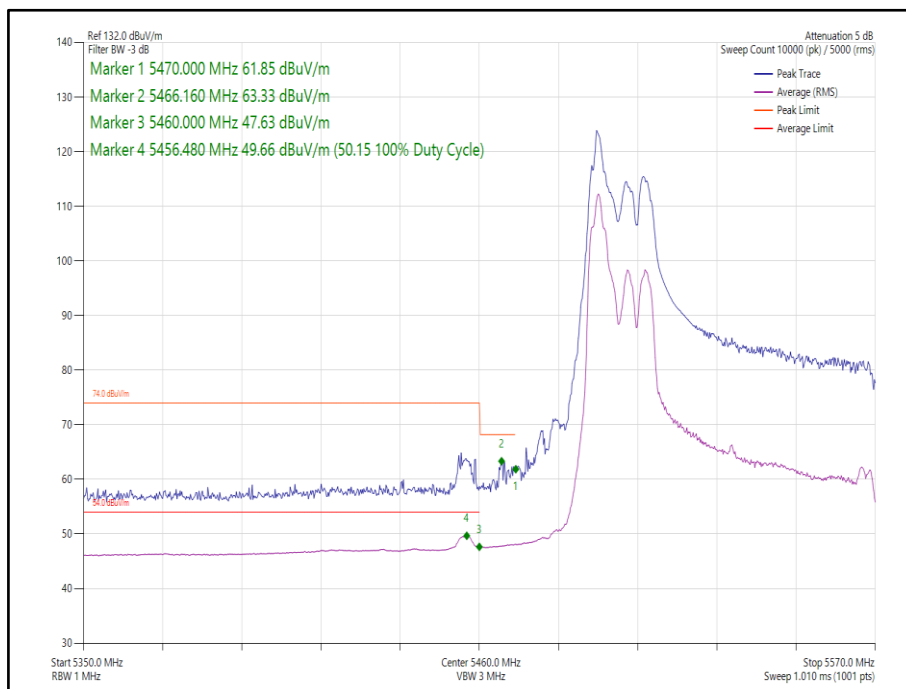
**Figure 81 - 802.11ax HE80 CDD, Cores 0-1, SU - 5530 MHz
Band Edge Frequency 5460 MHz**



**Figure 82 - 802.11ax HE80 CDD, Cores 0-1, 52-37 - 5530 MHz
Band Edge Frequency 5460 MHz**



**Figure 83 - 802.11ax HE80 SDM, Cores 0-1, SU - 5530 MHz
Band Edge Frequency 5460 MHz**



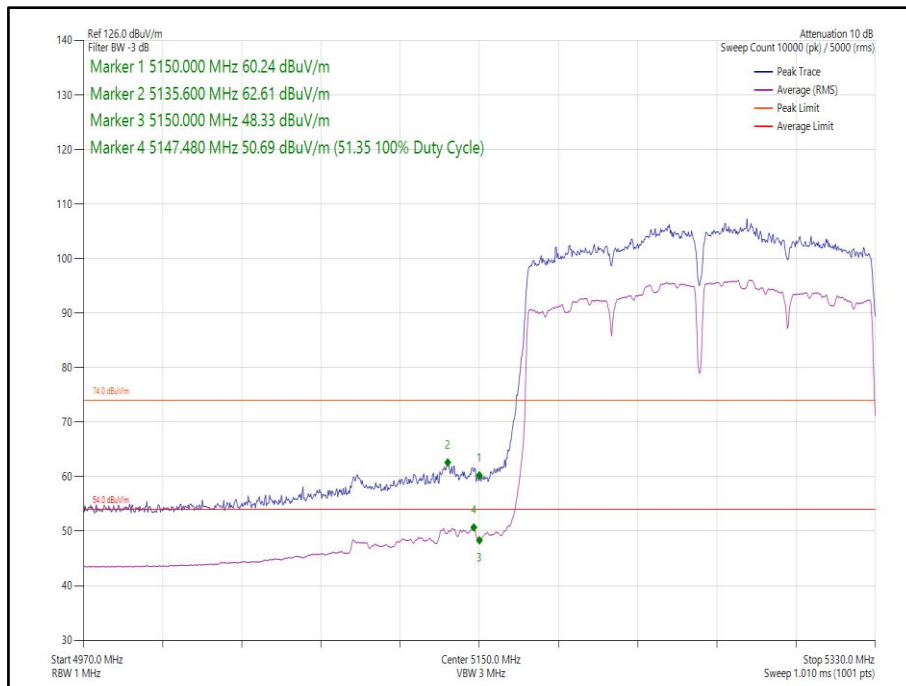
**Figure 84 - 802.11ax HE80 SDM, Cores 0-1, 52-37 - 5530 MHz
Band Edge Frequency 5460 MHz**



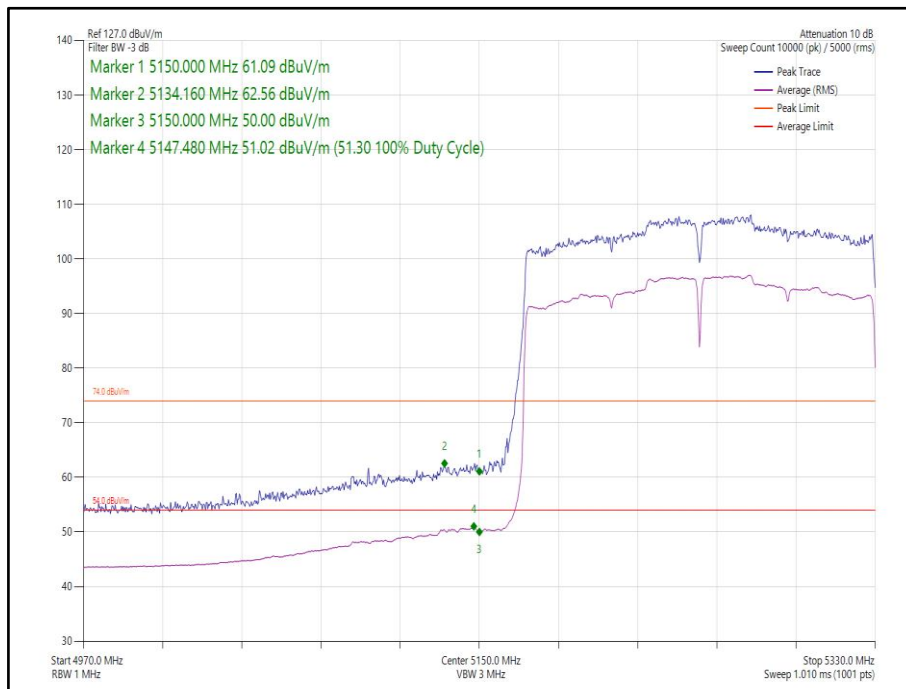
160 MHz Bandwidth (SISO)

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, Core 0	MCS 2x1	-	-	5250	5150	62.61	51.35
802.11ax HE160, Core 0	MCS 2x1	SU	-	5250	5150	62.56	51.30
802.11ax HE160, Core 0	MCS 11x1	52	37	5250	5150	68.84	49.24
802.11ac VHT160, Core 0	MCS 4x1	-	-	5250	5350	64.20	51.50
802.11ax HE160, Core 0	MCS 2x1	SU	-	5250	5350	63.08	51.21
802.11ax HE160, Core 0	MCS 11x1	52	52	5250	5350	68.06	49.60
802.11ac VHT160, Core 1	MCS 8x1	-	-	5570	5460	-	51.33
802.11ax HE160, Core 1	MCS 2x1	SU	-	5570	5460	-	51.49
802.11ax HE160, Core 1	MCS 11x1	52	37	5570	5460	-	46.33

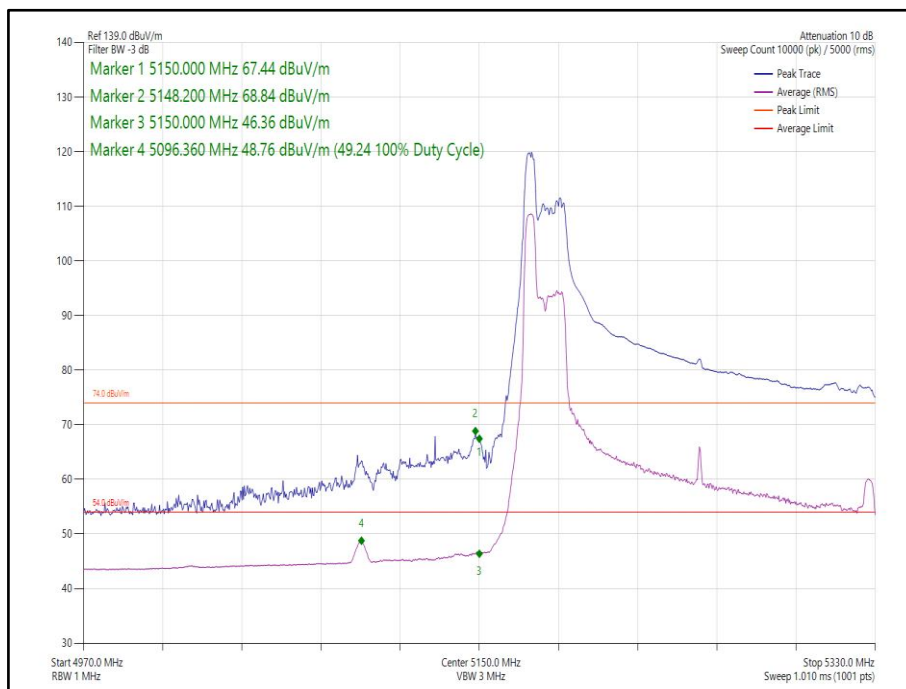
Table 13 - SISO Restricted Band Edge Results



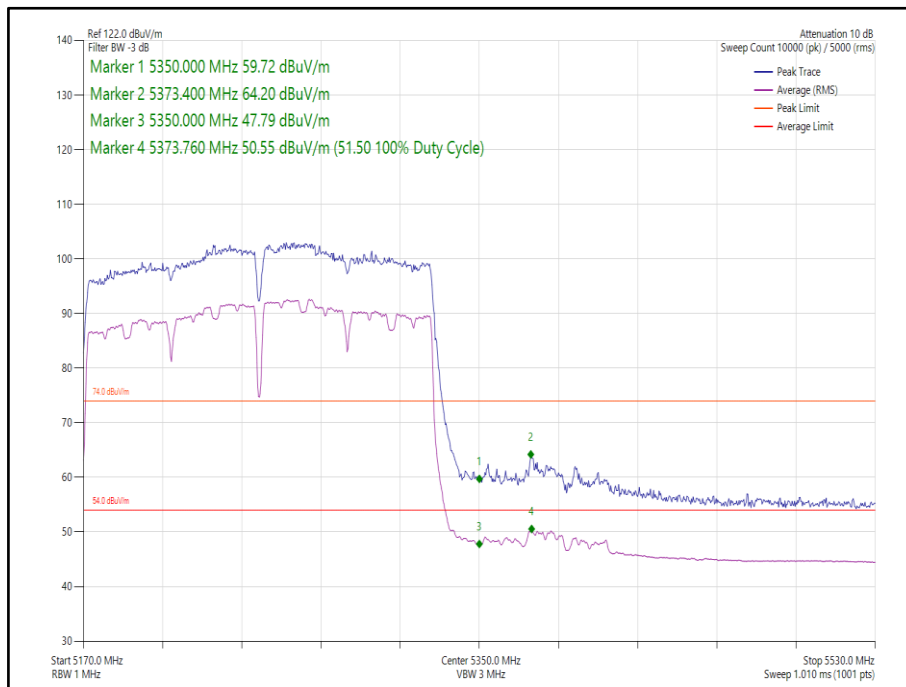
**Figure 85 - 802.11ac VHT160, Core 0 - 5250 MHz
 Band Edge Frequency 5150 MHz**



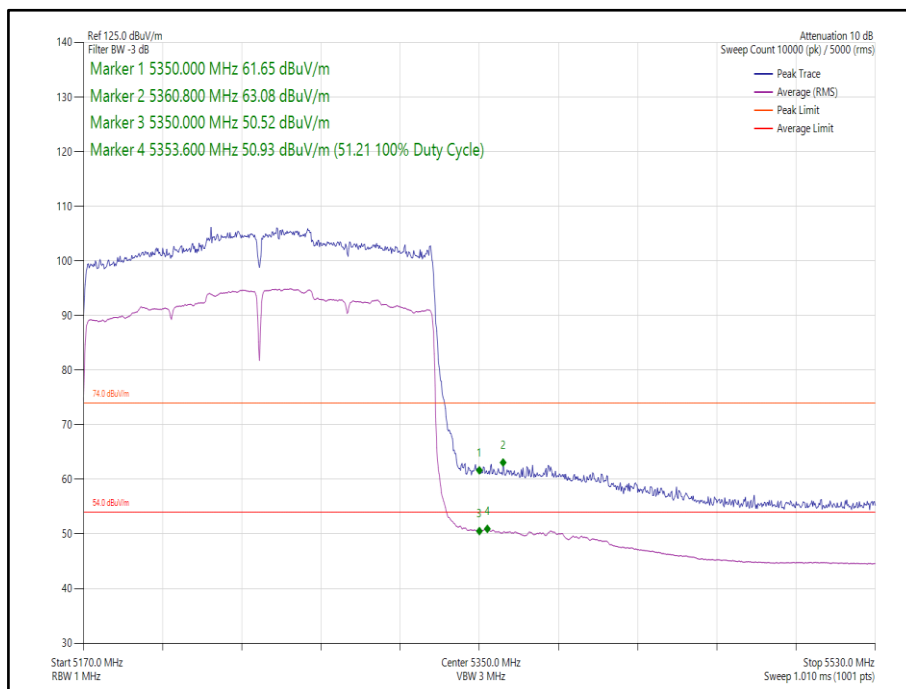
**Figure 86 - 802.11ax HE160, Core 0, SU - 5250 MHz
Band Edge Frequency 5150 MHz**



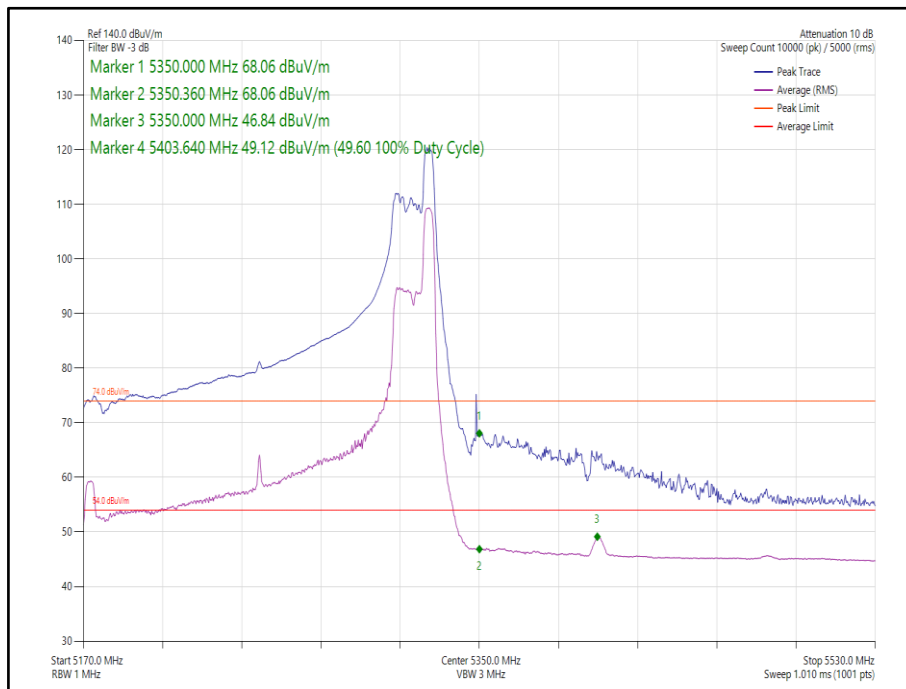
**Figure 87 - 802.11ax HE160, Core 0, 52-37 - 5250 MHz
Band Edge Frequency 5150 MHz**



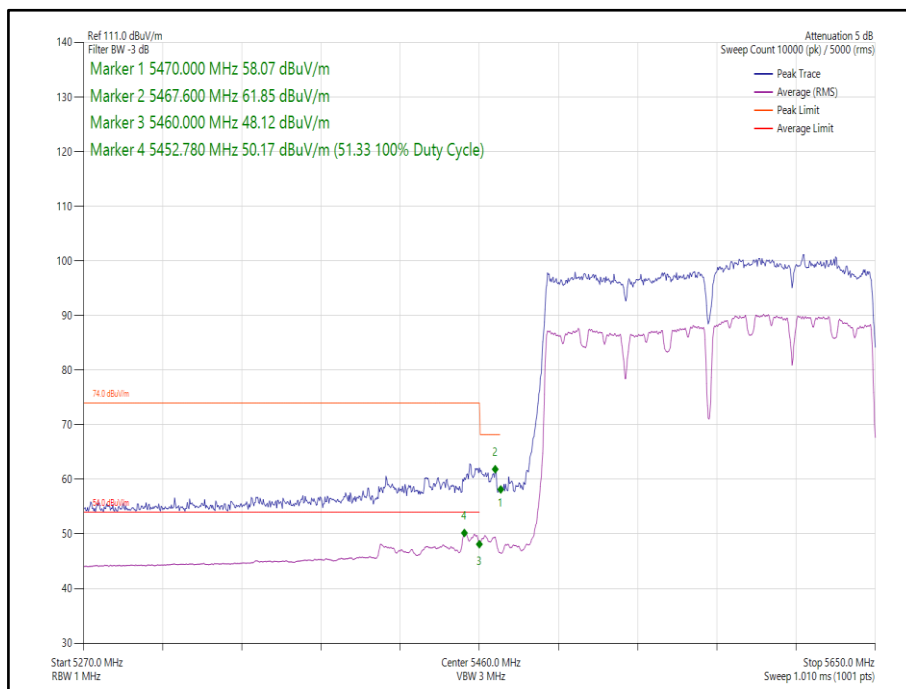
**Figure 88 - 802.11ac VHT160, Core 0 - 5250 MHz
Band Edge Frequency 5350 MHz**



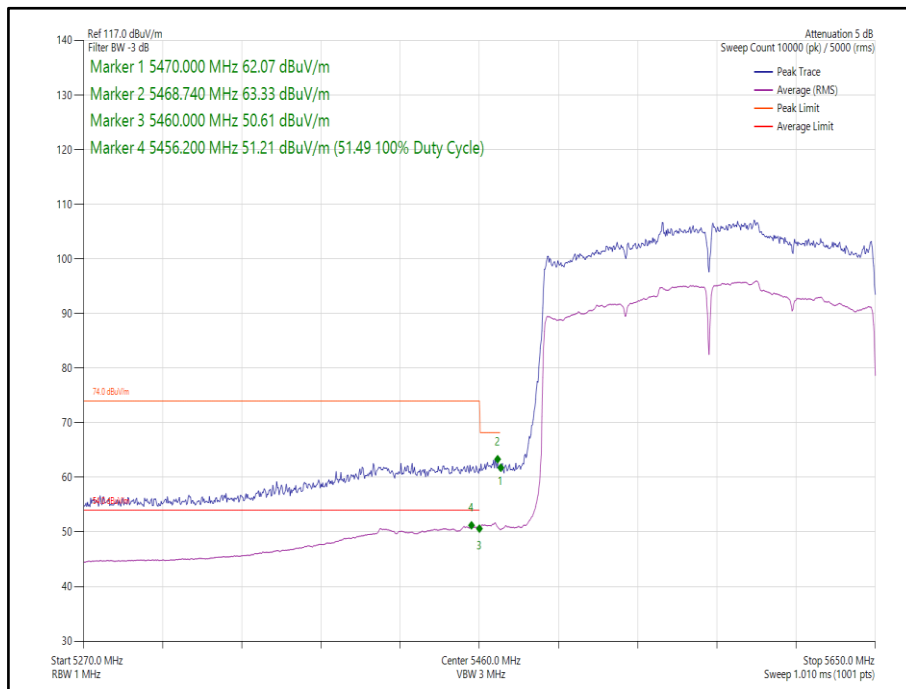
**Figure 89 - 802.11ax HE160, Core 0, SU - 5250 MHz
Band Edge Frequency 5350 MHz**



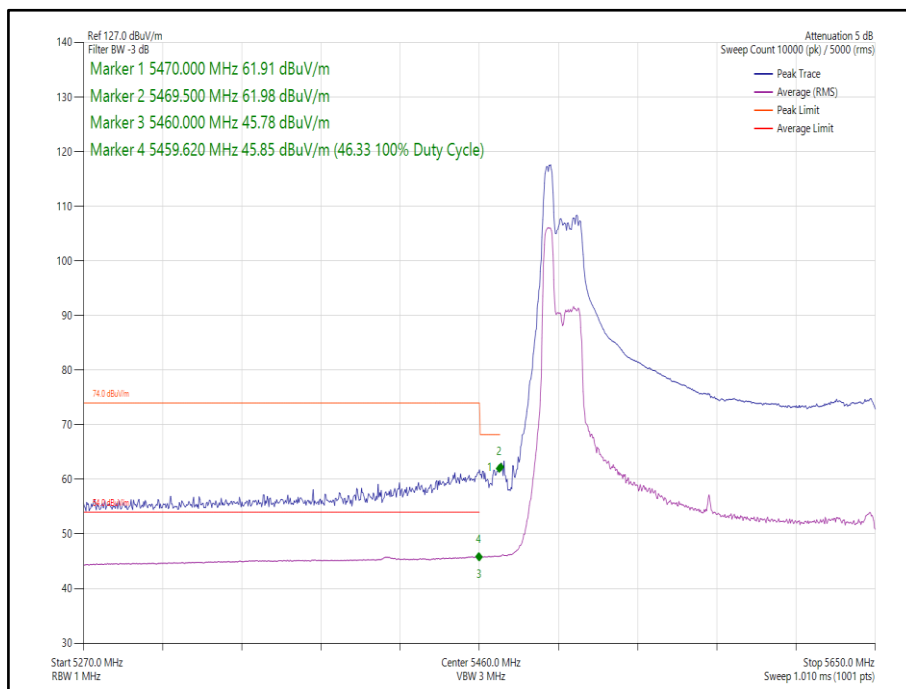
**Figure 90 - 802.11ax HE160, Core 0, 52-52 - 5250 MHz
Band Edge Frequency 5350 MHz**



**Figure 91 - 802.11ac VHT160, Core 1 - 5570 MHz
Band Edge Frequency 5460 MHz**



**Figure 92 - 802.11ax HE160, Core 1, SU - 5570 MHz
Band Edge Frequency 5460 MHz**



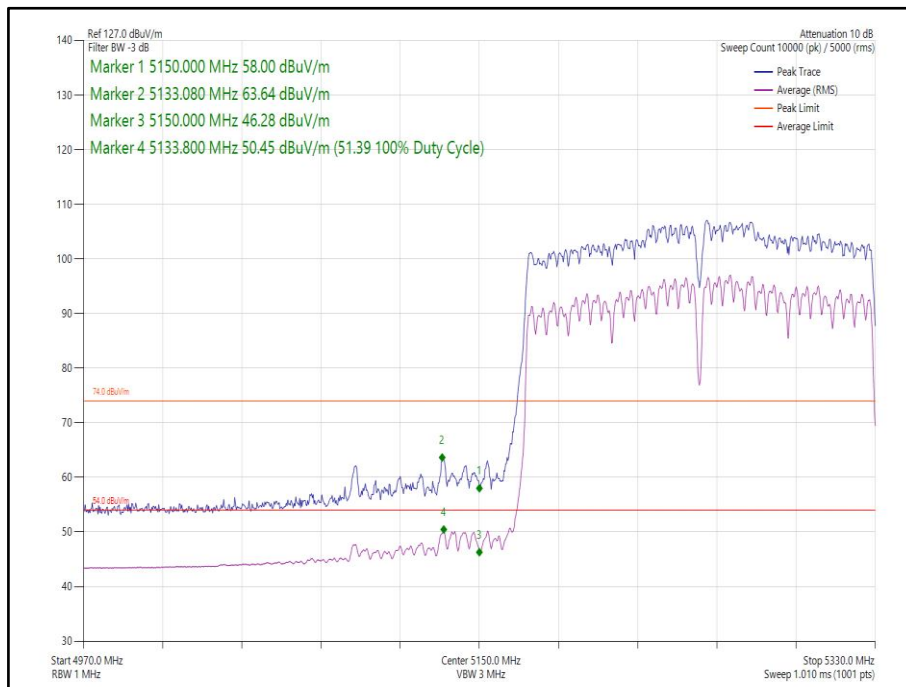
**Figure 93 - 802.11ax HE160, Core 1, 52-37 - 5570 MHz
Band Edge Frequency 5460 MHz**



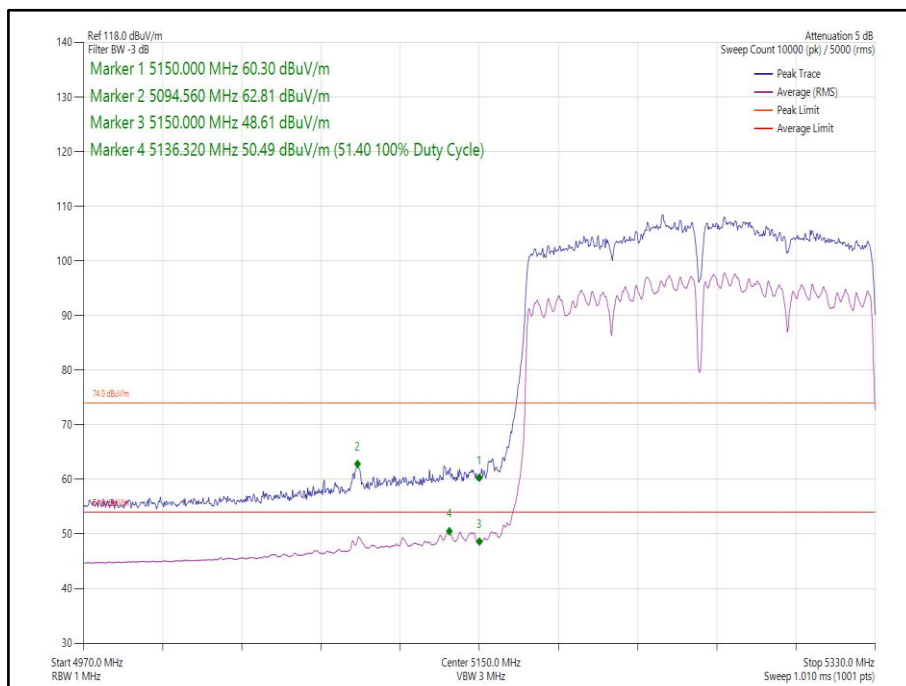
160 MHz Bandwidth (2TX MIMO)

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 CDD, Cores 0-1	MCS 4x1	-	-	5250	5150	63.64	51.39
802.11ac VHT160 SDM, Cores 0-1	MCS 2x2	-	-	5250	5150	62.81	51.40
802.11ax HE160 CDD, Cores 0-1	MCS 2x1	SU	-	5250	5150	62.67	51.26
802.11ax HE160 CDD, Cores 0-1	MCS 11x1	52	37	5250	5150	68.50	50.80
802.11ax HE160 SDM, Cores 0-1	MCS 2x2	SU	-	5250	5150	62.44	51.38
802.11ax HE160 SDM, Cores 0-1	MCS 11x2	52	37	5250	5150	67.00	51.26
802.11ac VHT160 CDD, Cores 0-1	MCS 8x1	-	-	5250	5350	62.22	51.26
802.11ac VHT160 SDM, Cores 0-1	MCS 8x2	-	-	5250	5350	64.92	51.38
802.11ax HE160 CDD, Cores 0-1	MCS 11x1	SU	-	5250	5350	64.39	50.90
802.11ax HE160 CDD, Cores 0-1	MCS 11x1	52	52	5250	5350	65.57	50.96
802.11ax HE160 SDM, Cores 0-1	MCS 4x2	SU	-	5250	5350	64.29	51.38
802.11ax HE160 SDM, Cores 0-1	MCS 11x2	52	52	5250	5350	66.25	51.26
802.11ac VHT160 CDD, Cores 0-1	MCS 8x1	-	-	5570	5460	-	51.47
802.11ac VHT160 SDM, Cores 0-1	MCS 2x2	-	-	5570	5460	-	51.32
802.11ax HE160 CDD, Cores 0-1	MCS 2x1	SU	-	5570	5460	-	51.14
802.11ax HE160 CDD, Cores 0-1	MCS 11x1	52	37	5570	5460	-	51.43
802.11ax HE160 SDM, Cores 0-1	MCS 4x2	SU	-	5570	5460	-	51.38
802.11ax HE160 SDM, Cores 0-1	MCS 11x2	52	37	5570	5460	-	50.78

Table 14 – MIMO 2TX Restricted Band Edge Results



**Figure 94 - 802.11ac VHT160 CDD, Cores 0-1 - 5250 MHz
Band Edge Frequency 5150 MHz**



**Figure 95 - 802.11ac VHT160 SDM, Cores 0-1 - 5250 MHz
Band Edge Frequency 5150 MHz**

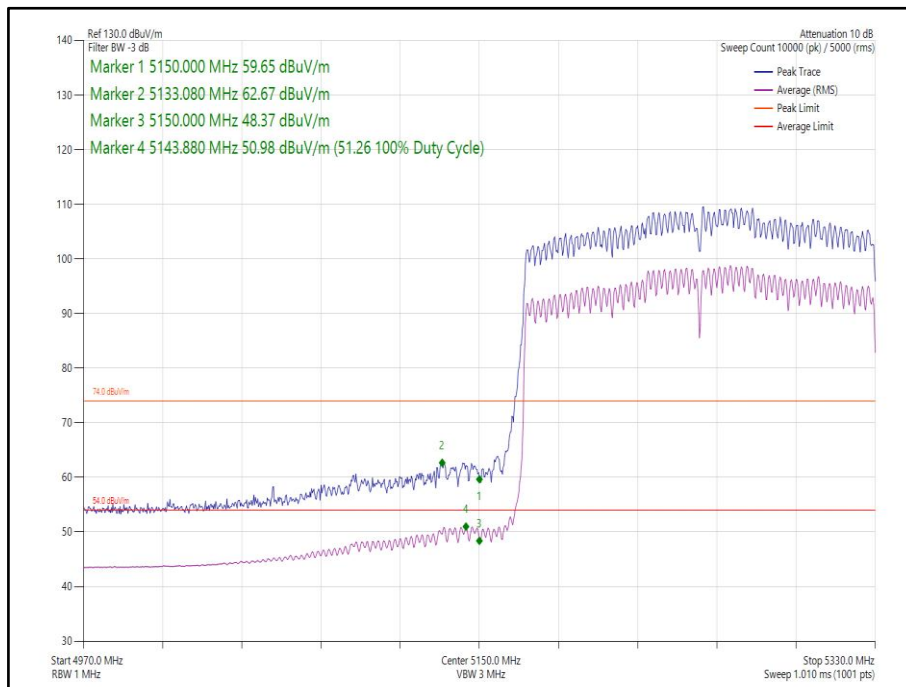


Figure 96 - 802.11ax HE160 CDD, Cores 0-1, SU - 5250 MHz
Band Edge Frequency 5150 MHz

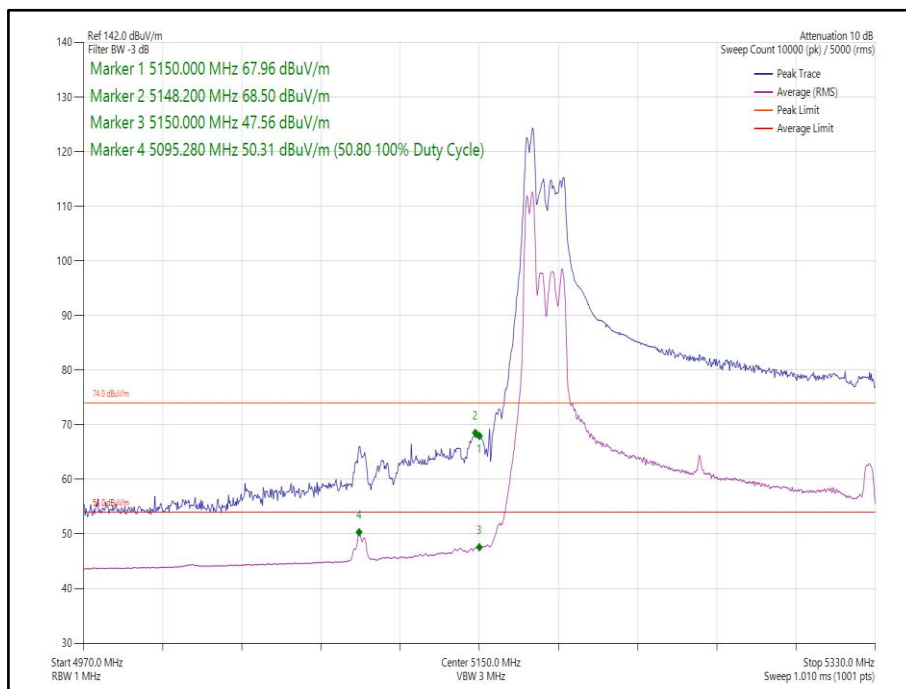
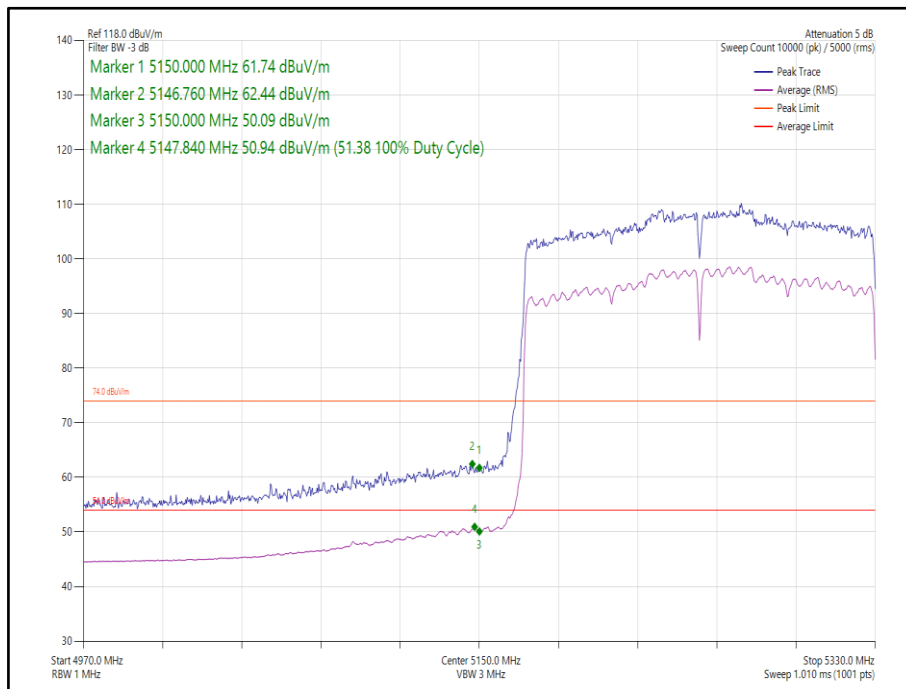
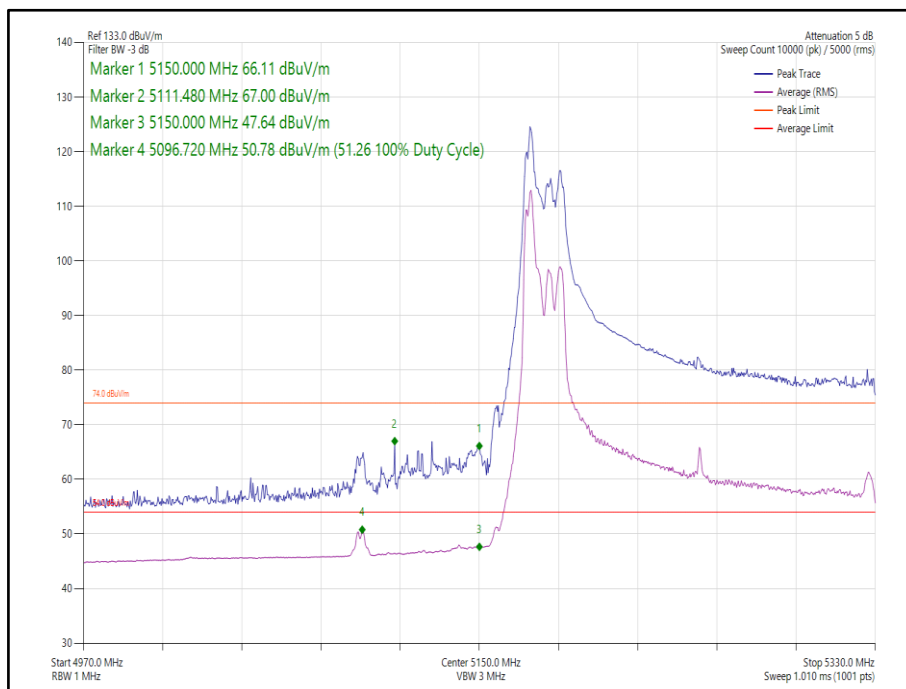


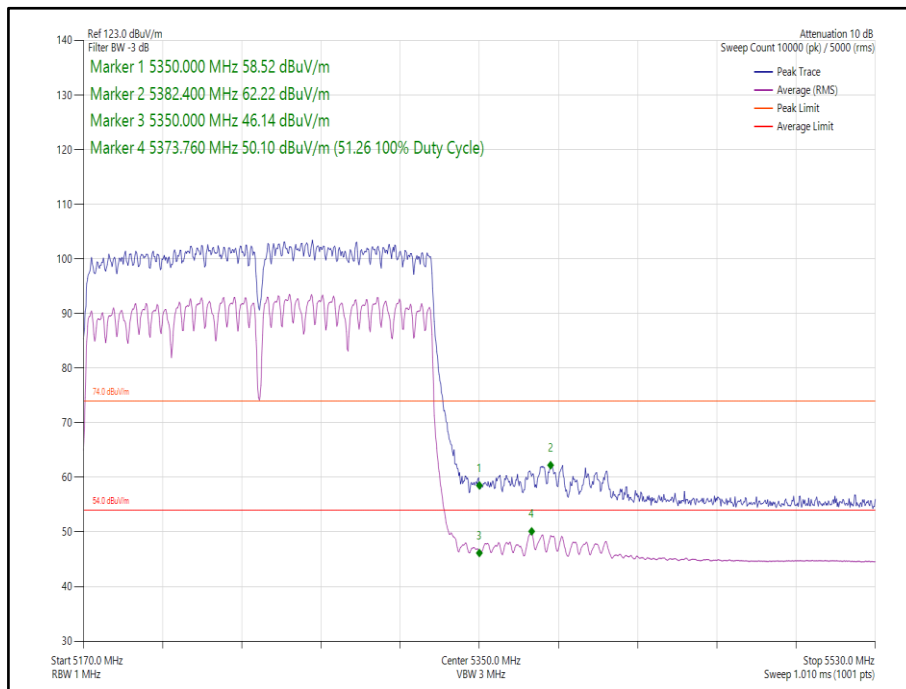
Figure 97 - 802.11ax HE160 CDD, Cores 0-1, 52-37- 5250 MHz
Band Edge Frequency 5150 MHz



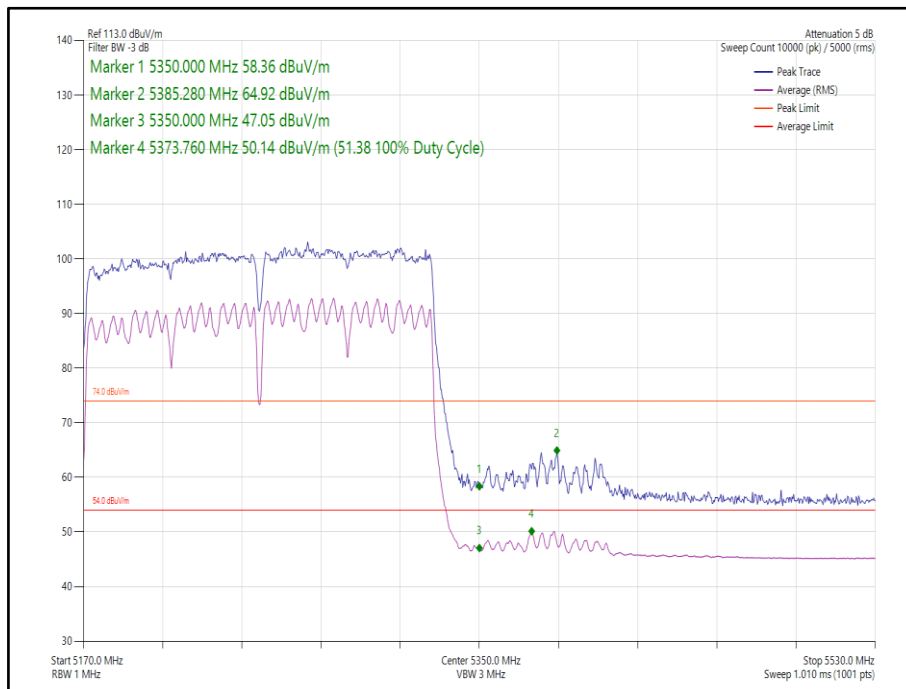
**Figure 98 - 802.11ax HE160 SDM, Cores 0-1, SU - 5250 MHz
Band Edge Frequency 5150 MHz**



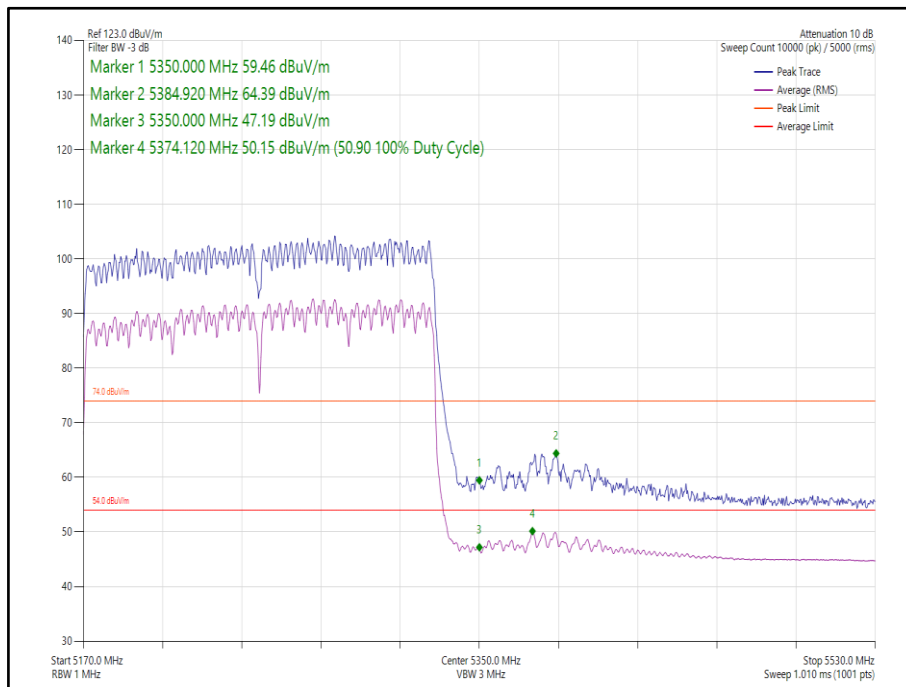
**Figure 99 - 802.11ax HE160 SDM, Cores 0-1, 52-37 - 5250 MHz
Band Edge Frequency 5150 MHz**



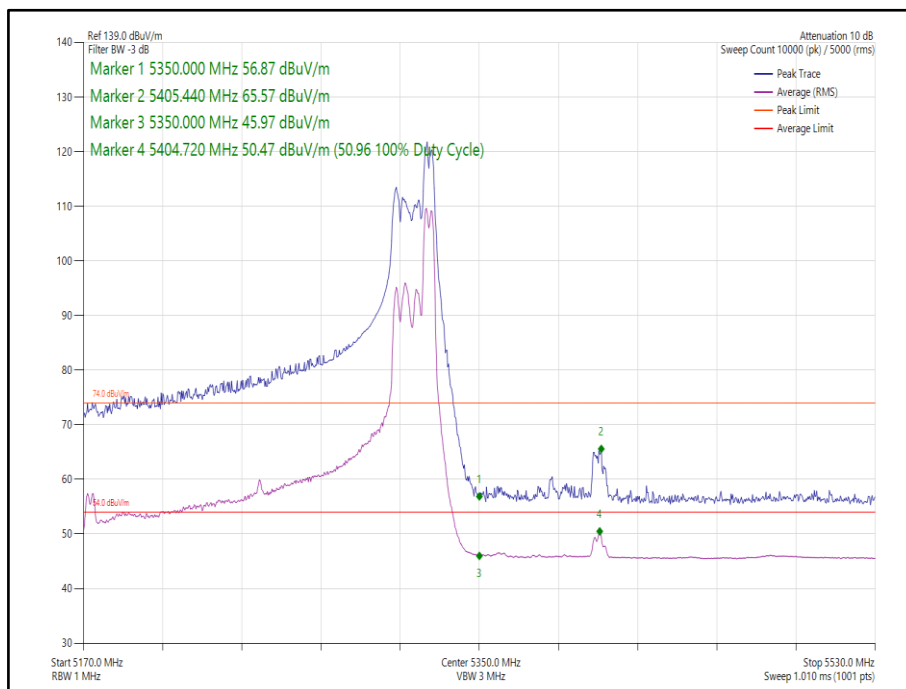
**Figure 100 - 802.11ac VHT160 CDD, Cores 0-1 - 5250 MHz
Band Edge Frequency 5350 MHz**



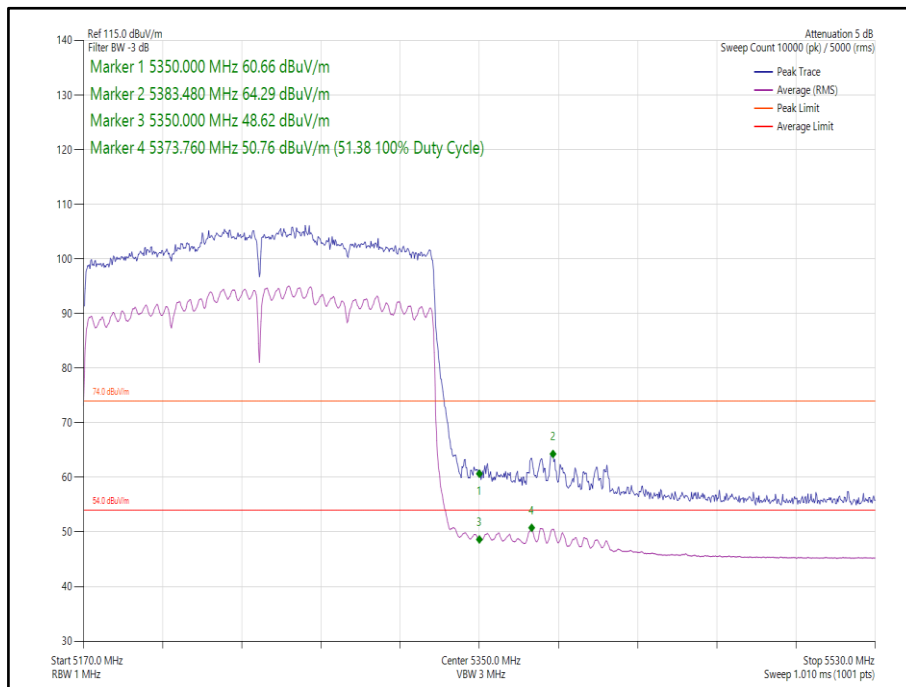
**Figure 101 - 802.11ac VHT160 SDM, Cores 0-1 - 5250 MHz
Band Edge Frequency 5350 MHz**



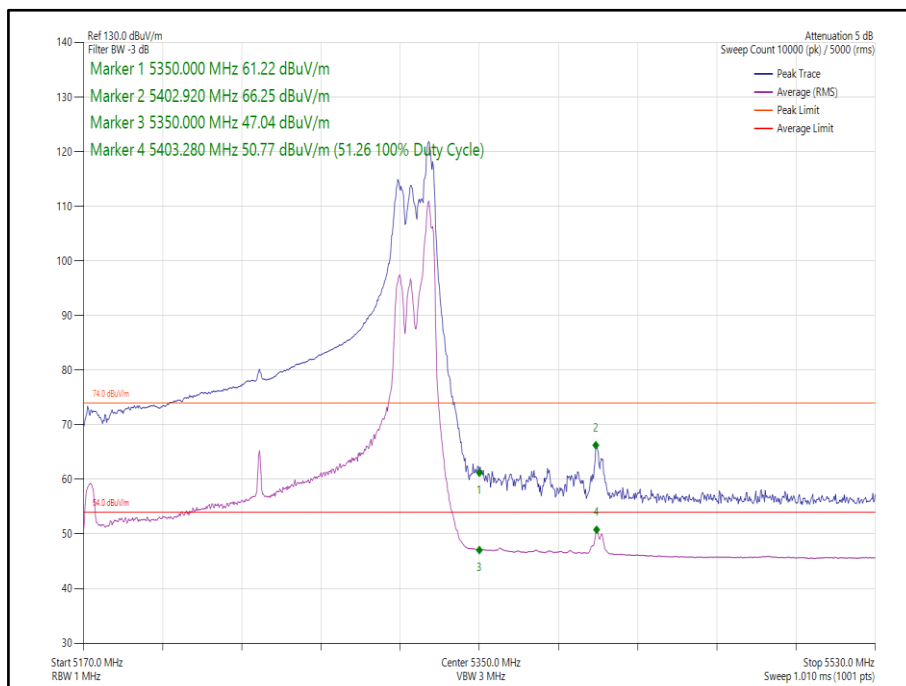
**Figure 102 - 802.11ax HE160 CDD, Cores 0-1, SU - 5250 MHz
Band Edge Frequency 5350 MHz**



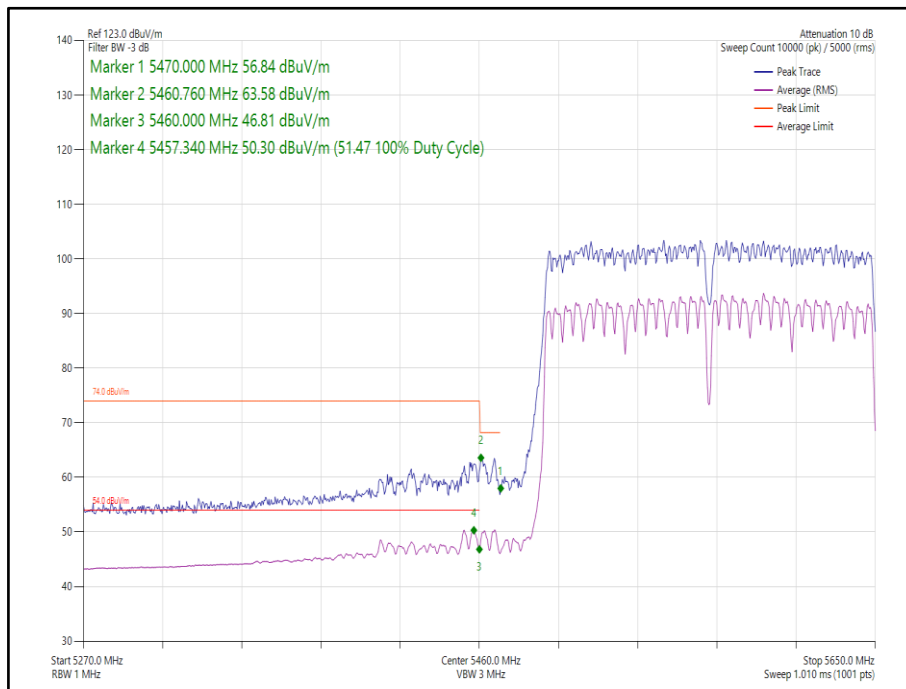
**Figure 103 - 802.11ax HE160 CDD, Cores 0-1, 52-52- 5250 MHz
Band Edge Frequency 5350 MHz**



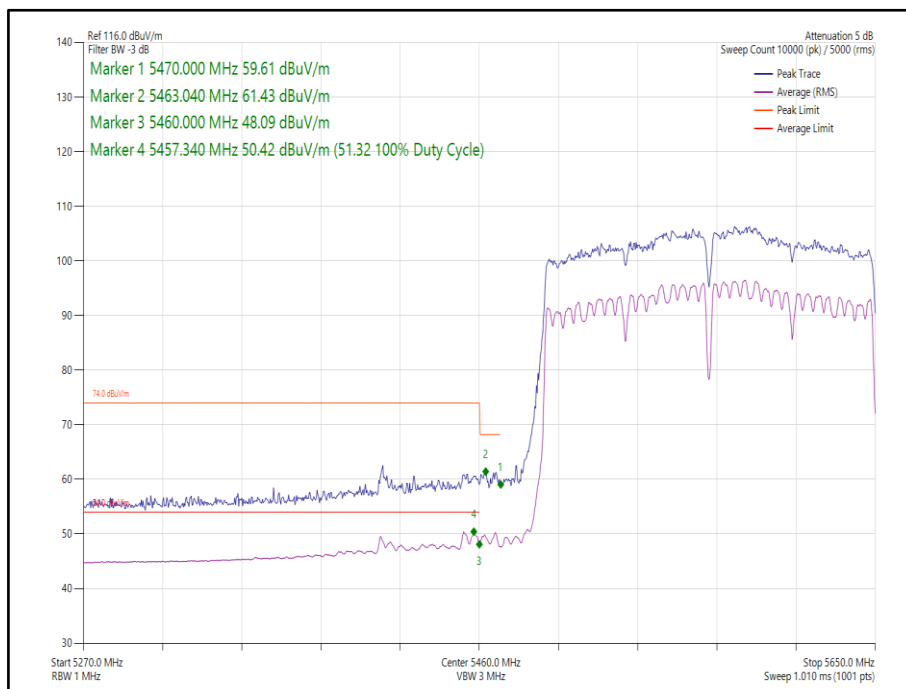
**Figure 104 - 802.11ax HE160 SDM, Cores 0-1, SU - 5250 MHz
Band Edge Frequency 5350 MHz**



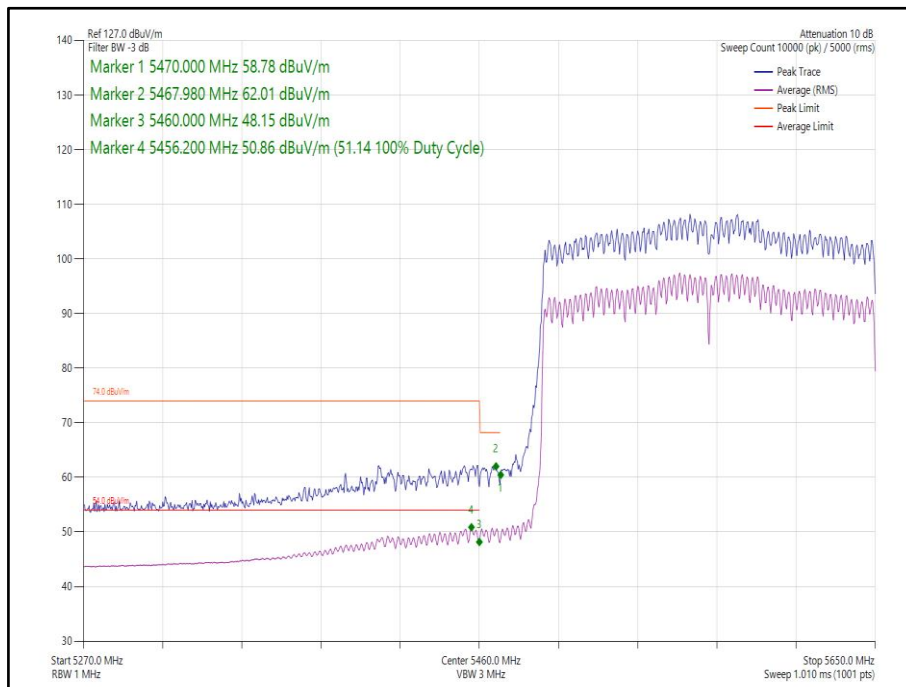
**Figure 105 - 802.11ax HE160 SDM, Cores 0-1, 52-52 - 5250 MHz
Band Edge Frequency 5350 MHz**



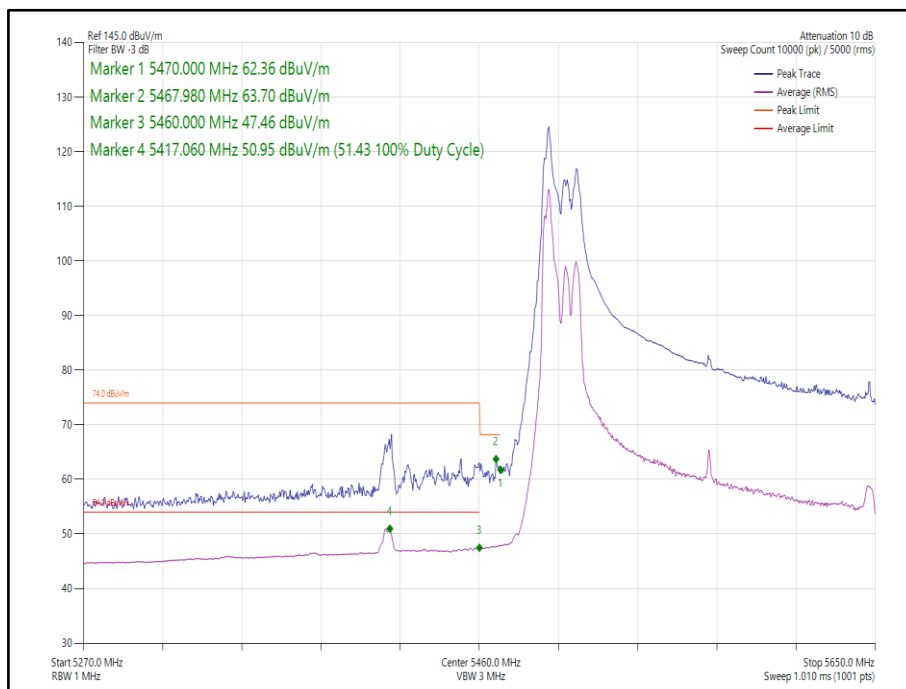
**Figure 106 - 802.11ac VHT160 CDD, Cores 0-1 - 5570 MHz
Band Edge Frequency 5460 MHz**



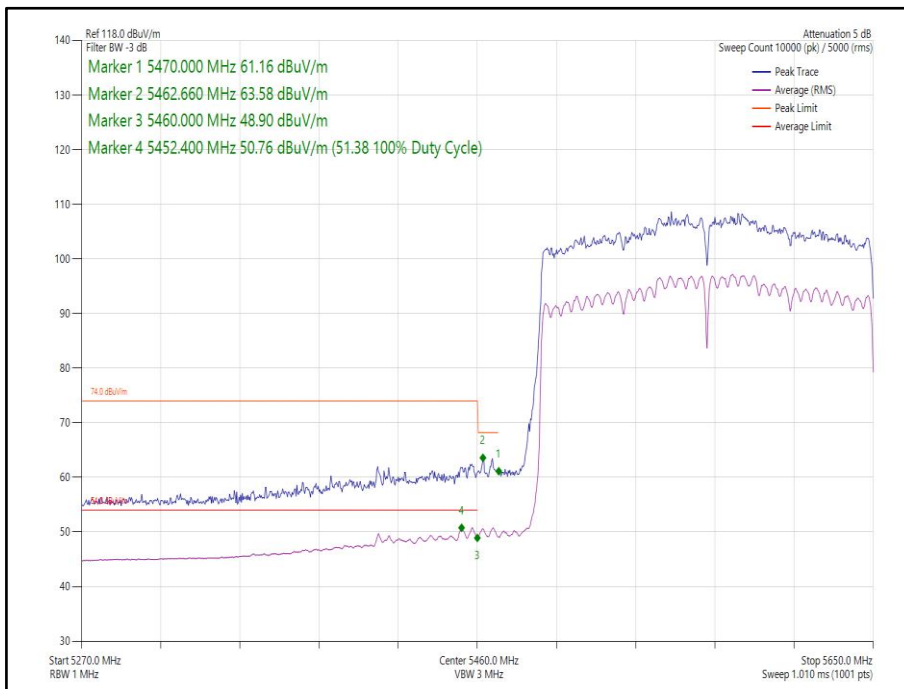
**Figure 107 - 802.11ac VHT160 SDM, Cores 0-1 - 5570 MHz
Band Edge Frequency 5460 MHz**



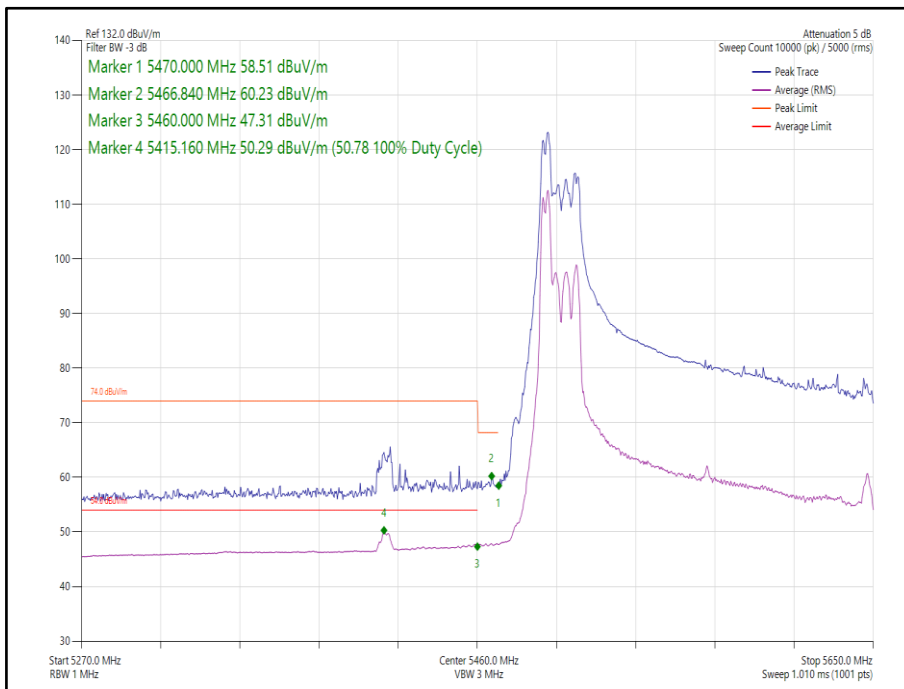
**Figure 108 - 802.11ax HE160 CDD, Cores 0-1, SU - 5570 MHz
Band Edge Frequency 5460 MHz**



**Figure 109 - 802.11ax HE160 CDD, Cores 0-1, 52-37- 5570 MHz
Band Edge Frequency 5460 MHz**



**Figure 110 - 802.11ax HE160 SDM, Cores 0-1, SU - 5570 MHz
Band Edge Frequency 5460 MHz**



**Figure 111 - 802.11ax HE160 SDM, Cores 0-1, 52-37 - 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 15 - Restricted Band Edge Limit Table

2.1.7 Test Location and Test Equipment Used

This test was carried out in EMC Chamber 5.

Instrument	Manufacturer	Type No	TE No	Calibration Period (months)	Calibration Expires
Screened Room (5)	Rainford	Rainford	1545	36	15-Apr-2024
Turntable Controller	Inn-Co GmbH	CO 1000	1606	-	TU
Mast Controller	Maturo GmbH	NCD	4810	-	TU
Tilt Antenna Mast	Maturo GmbH	TAM 4.0-P	4811	-	TU
Antenna (DRG 1-10.5GHz)	Schwarzbeck	BBHA9120B	4848	12	28-May-2023
Preamplifier (30dB 1GHz to 18GHz)	Schwarzbeck	BBV 9718 C	5261	12	08-Apr-2023
Attenuator 5W 10dB DC-18GHz	Aaren	AT40A-4041-D18-10	5492	12	11-Apr-2023
Cable (SMA to SMA 1m)	Junkosha	MWX221-01000AMSAMS/A	5513	12	12-Apr-2023
Cable (SMA to SMA, 2 m)	Junkosha	MWX221-02000AMSAMS/A	5517	12	12-Apr-2023
Cable (N-Type to N-Type, 8 m)	Junkosha	MWX221-08000NMSNMS/B	5520	0	24-Mar-2023
Thermo-Hygro-Barometer	PCE Instruments	PCE-THB 40	5604	12	22-Sep-2022

Table 16

TU – Traceability Unscheduled



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

A2779, S/N: NX7LCFL417 - Modification State 0
A2779, S/N: GG9H3Q9KG0 - Modification State 0

2.2.3 Date of Test

11-October-2022 to 30-October-2022

2.2.4 Test Method

The test was performed in accordance with ANSI C63.10, clause 12.4.2, KDB 789033 D02 v02r01 II.C.2. and ISED RSS-GEN, clause 6.7.

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	23.5 - 23.7 °C
Relative Humidity	32.4 - 56.9 %



2.2.6 Test Results

5 GHz WLAN

Protocol	26 dB Bandwidth (MHz)	
	Minimum	Maximum
802.11a	20.700	21.480
802.11n HT20	20.880	22.980
802.11n HT40	41.400	47.880
802.11ac VHT80	84.700	91.300
802.11ac VHT160	165.900	165.900
802.11ax HE20 SU	20.880	22.260
802.11ax HE40 SU	41.520	43.800
802.11ax HE80 SU	82.940	85.580
802.11ax HE160 SU	165.480	165.480

Table 17 - 26 dB Bandwidth Summary Results - SISO

Protocol	6 dB Bandwidth (MHz)	
	Minimum	Maximum
802.11a	16.140	16.260
802.11n HT20	17.280	17.640
802.11n HT40	35.520	35.880
802.11ac VHT80	75.680	75.680
802.11ax HE20 SU	18.840	19.020
802.11ax HE40 SU	37.920	38.280
802.11ax HE80 SU	77.220	77.220

Table 18 - 6 dB Bandwidth Summary Results - SISO

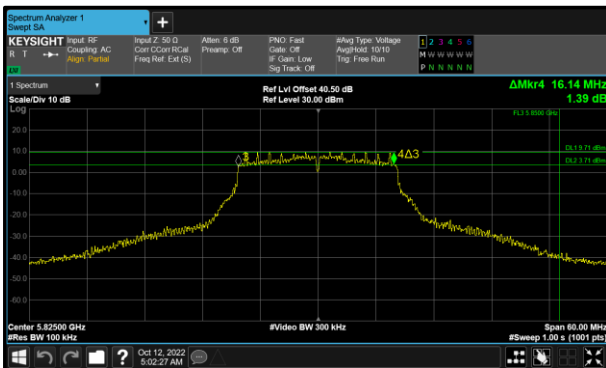


Figure 112 - 802.11a Minimum 6 dB EBW

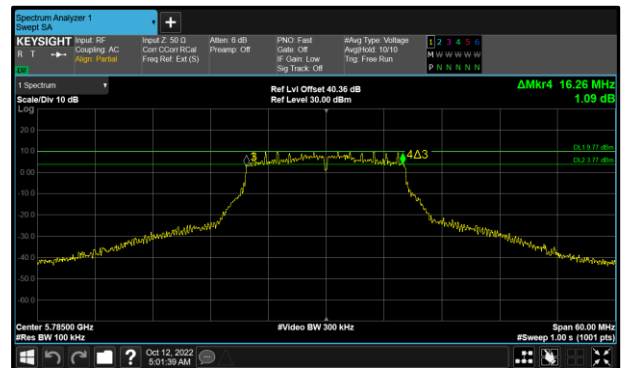


Figure 113 - 802.11a Maximum 6 dB EBW

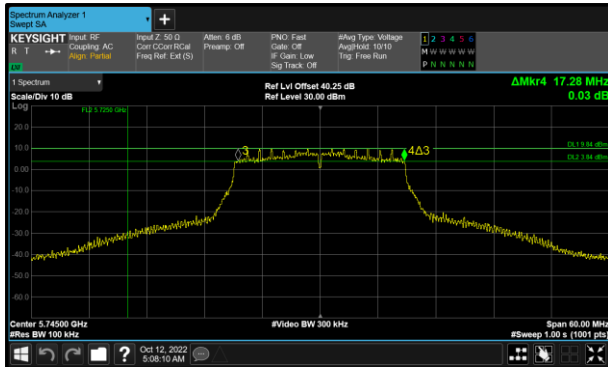


Figure 114 - 802.11n HT20 Minimum 6 dB EBW

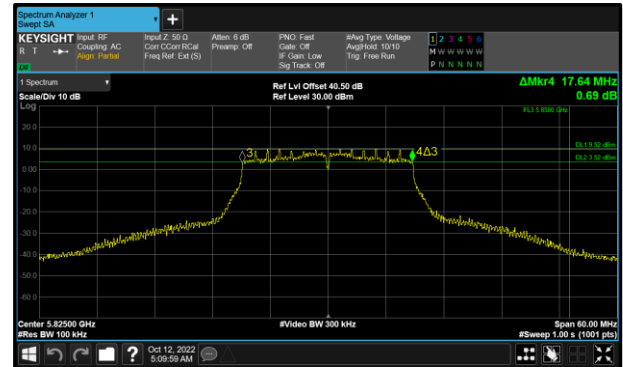


Figure 115 - 802.11n HT20 Maximum 6 dB EBW

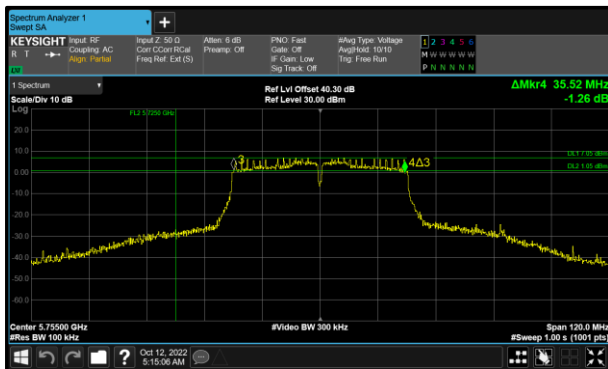


Figure 116 - 802.11n HT40 Minimum 6 dB EBW

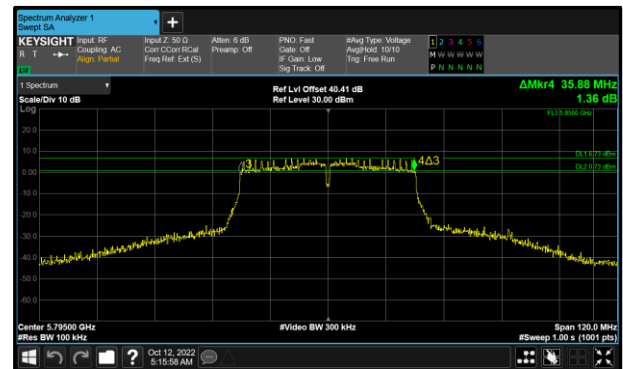


Figure 117 - 802.11n HT40 Maximum 6 dB EBW

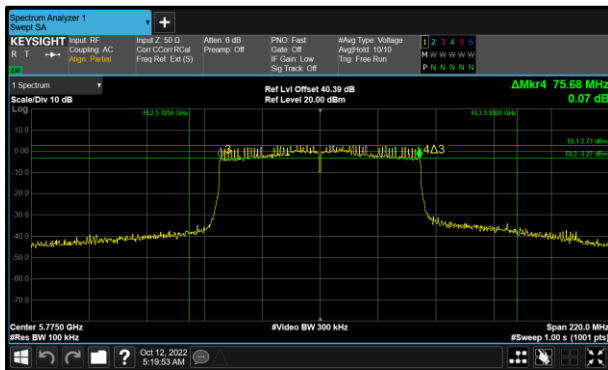


Figure 118 - 802.11ac VHT80 Minimum 6 dB EBW

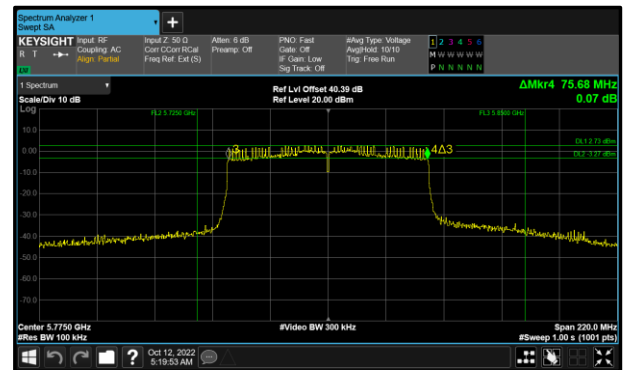


Figure 119 - 802.11ac VHT80 Maximum 6 dB EBW