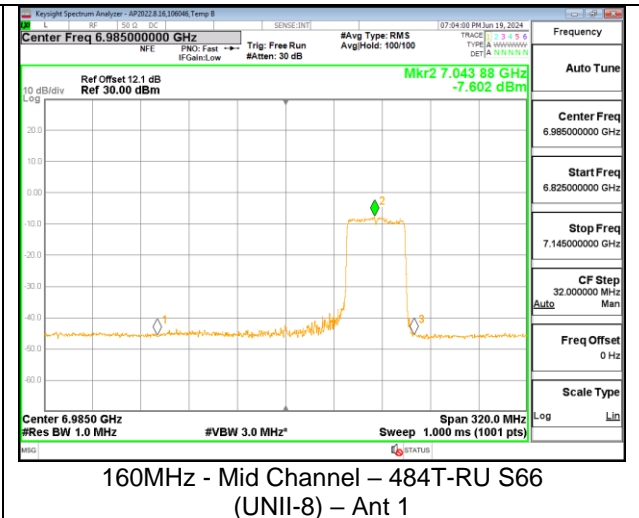


160MHz - Mid Channel – SU (UNII-8) – Ant 1



160MHz - Mid Channel – 484T-RU S66 (UNII-8) – Ant 1

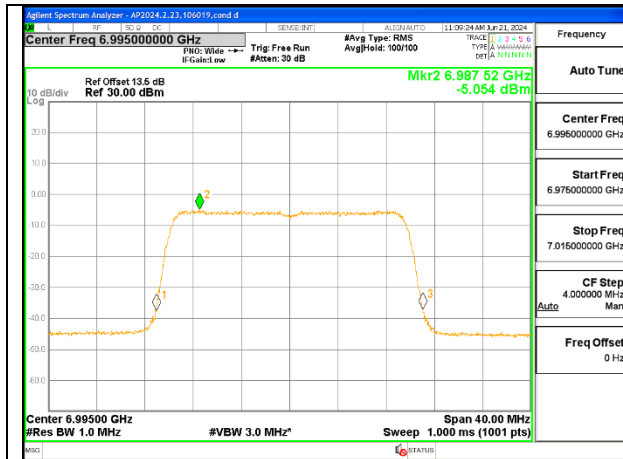
9.4.12. 802.11be MIMO SDM MODE IN THE UNII-8 BAND – LOW POWER

LP SDM UNII-8 (MIMO)	Duty Factor (dB)		Un-Correlated Antenna Gain (dBi)	Correlated Antenna Gain (dBi)	Frequency (MHz)	Channel Number	Tone	RU Index	Conducted Power (Gated)		EIRP MIMO Power (Limit = 24dBm EIRP)	Conducted PSD (dBm/MHz)		EIRP MIMO PSD (Limit = -1 dBm/MHz EIRP)					
	SU	Partial Rus							Ant 1	Ant 2		Ant 1	Ant 2						
20MHz	0	0	-0.69	2.05	6895	189	SU	--	6.23	6.16	8.52	-5.511	-5.587	-3.229					
							MRU	82	3.91	3.98	6.27	-5.272	-5.325	-2.978					
							106+26T	83	3.95	3.94	6.27	-5.228	-5.241	-2.914					
					6995	209	SU	--	6.17	6.24	8.53	-5.111	-5.054	-2.762					
							MRU	82	3.91	3.92	6.24	-5.167	-4.855	-2.688					
							106+26T	83	3.89	3.89	6.21	-4.886	-4.904	-2.575					
					7095	229	SU	--	6.17	6.23	8.52	-5.390	-5.479	-3.114					
							MRU	82	3.94	3.89	6.24	-5.333	-5.047	-2.867					
							106+26T	83	3.96	3.95	6.28	-5.321	-5.255	-2.968					
					7115	233	SU	--	-4.55	-4.61	-2.26	-16.344	-16.334	-14.019					
					40MHz	0	0	-0.69	2.05	6885 (Straddle)	187	SU	--	8.69	8.71	11.71	-6.242	-6.476	-3.347
												MRU	82	3.43	3.42	6.44	-6.385	-6.071	-3.215
106+26T	85	3.45	3.43	6.45								-6.305	-6.537	-3.409					
6965	203	SU	--	9.22						9.23	11.55	-5.125	-5.365	-2.923					
		MRU	82	3.92						3.96	6.26	-5.514	-5.572	-3.223					
		106+26T	84	3.91						3.98	6.27	-5.520	-5.509	-3.194					
7085	227	SU	--	9.17						9.18	11.50	-5.349	-5.482	-3.095					
		MRU	82	3.89						3.92	6.23	-5.614	-5.312	-3.140					
		106+26T	84	3.93						3.89	6.23	-5.370	-5.285	-3.007					
80MHz	0.3	0	-0.69	2.05						6945	199	SU	--	12.18	12.18	14.50	-5.092	-5.439	-2.642
												484T	65	9.24	9.17	11.53	-5.211	-5.368	-2.968
												66	9.22	9.17	11.52	-4.948	-5.057	-2.682	
										7025	215	SU	--	12.17	12.23	14.52	-5.051	-5.086	-2.448
												484T	65	9.21	9.18	11.52	-5.309	-5.002	-2.832
												66	9.16	9.17	11.49	-5.186	-5.027	-2.785	
160MHz	0.5	0	-0.69	2.05	6985	207	SU	--	14.48	14.46	16.79	-4.819	-5.142	-2.157					
							484T	65	9.16	9.22	11.51	-5.283	-5.390	-3.016					
							S66	9.18	9.23	11.53	-5.257	-5.426	-3.020						

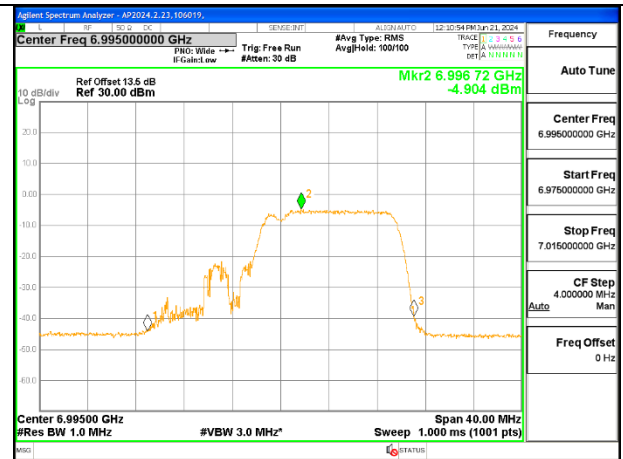
Note:

EIRP MIMO Output Power (dBm) = Measured Conducted Power (dBm) (Ant 1 + Ant 2) + Un-Correlated Antenna Gain (dBi)

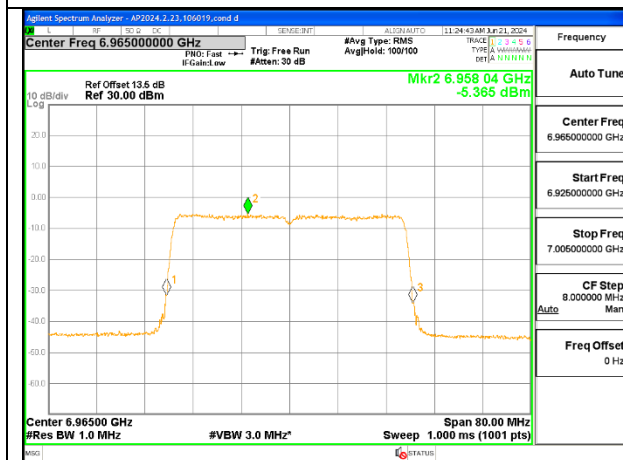
EIRP MIMO PSD (dBm/MHz) = Measured Conducted PSD (dBm/MHz) (Ant 1 + Ant 2) + Duty Factor (dB) + Un-Correlated Antenna Gain (dBi)



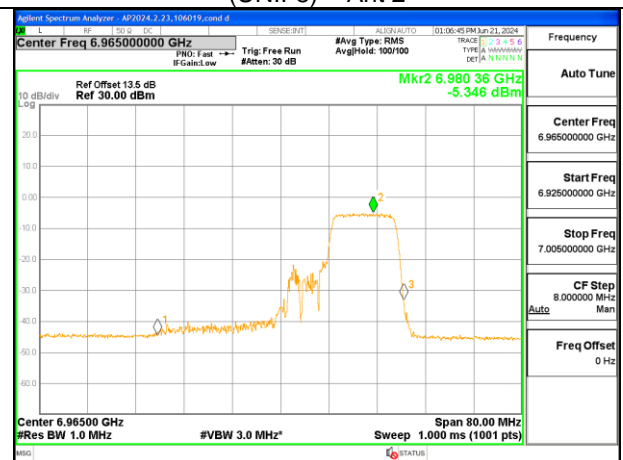
20MHz - Mid Channel – SU (UNII-8) – Ant 2



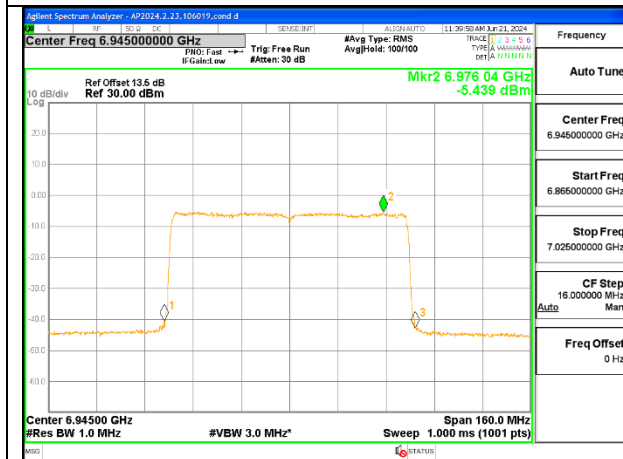
20MHz - Mid Channel – MRU106+26-RU83 (UNII-8) – Ant 2



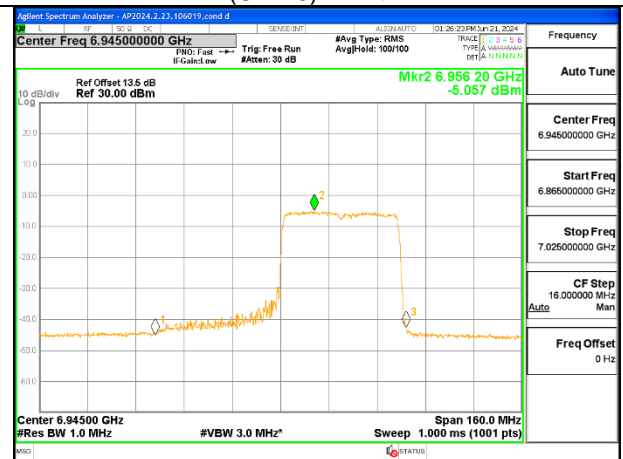
40MHz - Mid Channel – SU (UNII-8) – Ant 2



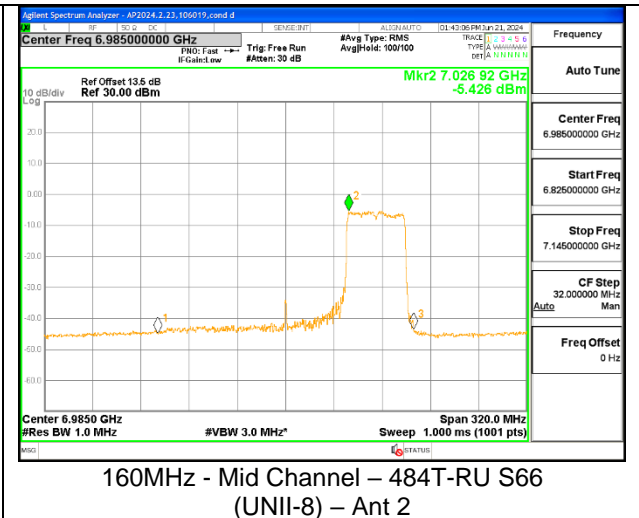
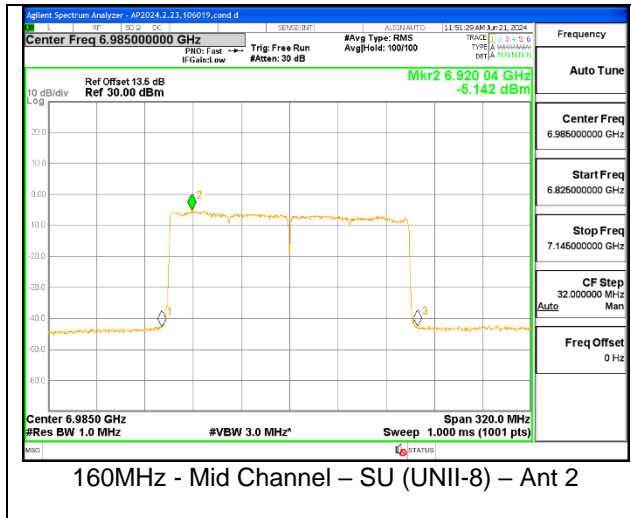
40MHz - Mid Channel – MRU106+26T-RU85 (UNII-8) – Ant 2



80MHz - Low Channel – SU (UNII-8) – Ant 2



80MHz - Low Channel – 484T-RU66 (UNII-8) – Ant 2



9.5. SP OUTPUT POWER AND PSD

LIMITS

FCC §15.407

Bands: 5.925–6.425 GHz and 6.525–6.875 GHz

(a)(7) For client devices, except for fixed client devices as defined in this subpart, operating under the control of a standard power access point in 5.925–6.425 GHz and 6.525–6.875 GHz bands, the maximum power spectral density must not exceed 17 dBm e.i.r.p. in any 1-megahertz band, and the maximum e.i.r.p. over the frequency band of operation must not exceed 30 dBm and the device must limit its power to no more than 6 dB below its associated standard power access point's authorized transmit power.

TEST PROCEDURE

Conducted Output Power: KDB 789033 D02 v02r01, Section II E.3.b (Method PM-G), because the gated power measurement is used the calculation of EIRP power does not include any corrections for duty factor.

The measurement method used for power spectral density is KDB 789033 D02 v02r01, Section F

RESULTS

The data in these sections follow the same testing parameters used for LP and SP modes PSD tests, therefore, for test setting please refer to LP mode PSD test plots.

DIRECTIONAL ANTENNA GAIN

For 1 TX:

There is only one transmitter output therefore the directional gain is equal to the antenna gain.

For 2 TX:

CDD MIMO Tx chains used uncorrelated gain for EIRP calculation and correlated gain for PSD EIRP calculation; SDM MIMO Tx chains used uncorrelated for both EIRP and PSD EIRP calculation. For the straddle channels, the higher antenna gains were chosen between two bands where straddle channels are located. The directional gains are as follows:

Frequency Range (MHz)	Sub-band (MHz)	Antenna 6 (dBi)	Antenna 5 (dBi)	Uncorrelated Chains (dBi)	Correlated Chains (dBi)
5925 - 6425 UNII-5	Sub-band 1 (5955 - 6095)	0.10	-1.10	-0.46	2.53
	Sub-band 2 (6115 - 6255)	0.90	-2.40	-0.44	2.42
	Sub-band 3 (6275 - 6415)	1.60	-2.90	-0.09	2.65
6425 - 6525 UNII-6	N/A	1.90	-3.70	-0.05	2.55
UNII-6/7 (Straddle Channel)	N/A	2.00	-3.70	0.02	2.62
6525 - 6875 UNII-7	N/A	2.00	-4.40	-0.11	2.39
UNII-7/8 (Straddle Channel)	N/A	2.00	-3.50	0.07	2.69
6875 - 7125 UNII-8	N/A	1.00	-3.50	-0.69	2.05

DIRECTIONAL GAIN CALCULATION:

ANSI C63.10-2013 section 14.4.3

$$\text{Uncorrelated directional gain} = 10 \cdot \text{LOG} \left(\frac{10^{\text{Ant6}/10} + 10^{\text{Ant5}/10}}{2} \right)$$

$$\text{Correlated directional Gain} = 10 \cdot \text{LOG} \left(\frac{(10^{\text{Ant6}/20} + 10^{\text{Ant5}/20})^2}{2} \right)$$

Sample Calculation at UNII-5 Band:

$$\text{Ant6} = 0.10, \text{Ant5} = -1.10$$

$$\text{Uncorrelated Antenna gain} = 10 \log \left[\frac{10^{(-0.10/10)} + 10^{(-1.10/10)}}{2} \right] = -0.46 \text{ dBi}$$

$$\text{Correlated Antenna gain} = 10 \log \left[\frac{(10^{(-0.10/20)} + 10^{(-1.10/20)})^2}{2} \right] = 2.53 \text{ dBi}$$

EIRP Calculation:**1Tx**

EIRP corr'd power = Ant6 + Antenna Gain

Sample Calculation at UNII-5 Band:

Ant6(20MHz, low channel, 52T/RU37) Power=13.67 dBm

EIRP corr'd power = 13.67 + (0.1) = 13.77 dBm

2Tx

EIRP corr'd power = $10 \cdot \text{LOG}(10^{(\text{Ant6}/10)} + 10^{(\text{Ant5}/10)})$ + uncorrelated directional gain

Sample Calculation at UNII-5 Band:

(20MHz, low channel, 52T/RU37) Ant6 Power=13.66 dBm, Ant5 Power=13.68

EIRP corr'd power = $10 \cdot \text{LOG}(10^{(13.66/10)} + 10^{(13.68/10)})$ + (-0.46) = 16.22 dBm

EIRP PSD Calculation:**1Tx**

EIRP corr'd PSD = DCCF + Ant6 + Antenna Gain

Sample Calculation at UNII-5 Band:

Ant6(20MHz, low channel 52T/RU37) PSD= 9.259 dBm/1MHz

EIRP corr'd PSD = 0 + 9.259 + (0.10) = 9.359 dBm/1MHz

2Tx (OFDMA)

EIRP corr'd PSD = $(10 \cdot \text{LOG}(10^{((\text{DCCF} + \text{Ant6})/10)} + 10^{((\text{DCCF} + \text{Ant5})/10)}))$ + correlated directional gain

Sample Calculation at UNII-5 Band:

(20MHz, low channel 52T/RU37) Ant6 PSD=9.121 dBm/1MHz, Ant5 PSD=9.121 dBm/1MHz

EIRP corr'd PSD = $(10 \cdot \text{LOG}(10^{((0+(9.121))/10)} + 10^{((0+(9.121))/10)}))$ + (2.53) = 14.661 dBm/1MHz

9.5.1. 802.11be SISO MODE IN THE UNII-5 BAND – STANDARD POWER

SP UNII-5 (SISO)	Duty Factor (dB)		Ant 1 Gain (dBi)	Ant 2 Gain (dBi)	Frequency (MHz)	Channel Number	Tone	RU Index	Conducted Power (Gated) (dBm)		EIRP Power (Limit = 30dBm EIRP)		Conducted PSD (dBm/MHz)		EIRP PSD (Limit = 17 dBm/MHz EIRP)	
	SU	Partial RU							Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2
20MHz	0	0	0.10	-1.10	5955	1	SU	--	20.44	20.41	20.54	19.31	8.463	8.464	8.563	7.364
							37	13.67	13.68	13.77	12.58	9.259	8.936	9.359	7.836	
							52T	38	13.71	13.71	13.81	12.61	9.105	8.999	9.205	7.899
			40	13.71	13.72	13.81	12.62	9.352	9.081	9.452	7.981					
			SU	--	20.37	20.43	21.27	18.03	8.570	8.420	9.470	6.020				
			52T	37	13.70	13.68	14.60	11.28	8.979	8.878	9.879	6.478				
	38	13.65	13.72	14.55	11.32	9.144	8.966	10.044	6.566							
	40	13.70	13.69	14.60	11.29	8.823	9.195	9.723	6.795							
	SU	--	20.42	20.42	22.02	17.52	8.539	8.561	10.139	5.661						
	52T	37	13.69	13.64	15.29	10.74	9.194	8.922	10.794	6.022						
	38	13.72	13.68	15.32	10.78	9.316	9.199	10.916	6.299							
	40	13.68	13.69	15.28	10.79	9.289	9.183	10.889	6.283							
40MHz	0	0	0.10	-1.10	5965	3	SU	--	20.48	20.39	20.58	19.29	6.587	6.522	6.687	5.422
							61	20.42	20.47	20.52	19.37	8.480	8.557	8.580	7.457	
							242T	62	20.45	20.41	20.55	19.31	8.802	8.456	8.902	7.356
			SU	--	20.44	20.44	21.34	18.04	6.677	6.579	7.577	4.179				
			242T	61	20.43	20.39	21.33	17.99	8.647	8.503	9.547	6.103				
			62	20.43	20.41	21.33	18.01	8.829	8.695	9.729	6.295					
	1.60	-2.40	6165	43	SU	--	20.39	20.46	21.99	17.56	6.423	6.300	8.023	3.400		
					242T	61	20.46	20.41	22.06	17.51	8.535	8.895	10.135	5.995		
					62	20.46	20.45	22.06	17.55	8.462	8.862	10.062	5.962			
		SU	--	20.32	20.42	20.42	19.32	3.842	3.668	4.082	2.708					
		242T	61	20.42	20.44	20.52	19.34	8.625	8.720	8.725	7.620					
		62	20.41	20.42	20.51	19.32	8.606	8.667	8.706	7.567						
80MHz	0.14	0	0.10	-1.10	5985	7	SU	--	20.32	20.42	20.42	19.32	3.842	3.668	4.082	2.708
							242T	61	20.42	20.44	20.52	19.34	8.625	8.720	8.725	7.620
							62	20.41	20.42	20.51	19.32	8.606	8.667	8.706	7.567	
			SU	--	20.43	20.36	21.33	17.96	3.815	3.491	4.855	1.231				
			242T	61	20.45	20.41	21.35	18.01	8.600	8.605	9.500	6.205				
			62	20.44	20.43	21.34	18.03	8.615	8.657	9.515	6.257					
	1.60	-2.40	6145	39	SU	--	20.41	20.44	21.31	18.04	8.523	8.614	9.423	6.214		
					242T	61	20.43	20.42	21.93	17.52	3.640	3.571	5.380	0.811		
					62	20.41	20.44	21.31	18.04	8.523	8.614	9.423	6.214			
		SU	--	20.33	20.42	21.93	17.52	3.640	3.571	5.380	0.811					
		242T	61	20.34	20.45	21.94	17.55	8.864	8.604	10.464	5.704					
		62	20.39	20.45	21.99	17.55	8.638	8.363	10.238	5.463						
160MHz	0.25	0	0.10	-1.10	6025	15	SU	--	19.98	19.97	20.08	18.87	0.229	-0.244	0.579	-1.094
							242T	61	20.41	20.46	20.51	19.36	8.866	8.887	8.966	7.787
							62	20.46	20.44	20.56	19.34	8.862	8.896	8.962	7.796	
			SU	--	19.91	19.95	20.81	17.55	-0.039	0.139	1.111	-2.011				
			242T	61	20.45	20.45	21.35	18.05	8.939	8.741	9.839	6.341				
			62	20.41	20.46	21.31	18.06	8.868	8.764	9.768	6.364					
	1.60	-2.40	6185	47	SU	--	20.48	20.40	21.38	18.00	8.755	8.826	9.655	6.426		
					242T	61	20.44	20.44	22.04	17.54	0.375	0.506	2.225	-2.144		
					62	20.42	20.48	22.02	17.58	8.616	8.740	10.216	5.840			
		SU	--	20.44	20.44	22.04	17.54	8.959	9.223	10.559	6.323					
		242T	62	20.43	20.41	22.03	17.51	8.814	8.892	10.414	5.992					
		62	20.44	20.45	22.04	17.55	8.959	9.223	10.559	6.323						

Note:

EIRP Output Power (dBm) = Measured Conducted Power (dBm)+ Peak Antenna Gain (dBi)

EIRP PSD (dBm/MHz) = Measured Conducted PSD (dBm/MHz) + Duty Factor (dB) + Peak Antenna Gain (dBi)

9.5.2. 802.11be MIMO CDD MODE IN THE UNII-5 BAND – STANDARD POWER

SP CDD UNII-5 (MIMO)	Duty Factor (dB)		Un-Correlated Antenna Gain (dBi)	Correlated Antenna Gain (dBi)	Frequency (MHz)	Channel Number	Tone	RU Index	Conducted Power (Gated)		EIRP MIMO Power (Limit = 30dBm EIRP)	Conducted PSD (dBm/MHz)		EIRP MIMO PSD (Limit = 17 dBm/MHz EIRP)			
	SU	Partial Rus							Ant 1	Ant 2		Ant 1	Ant 2				
20MHz	0	0	-0.46	2.53	5955	1	SU	--	20.41	20.41	22.96	8.474	8.469	14.012			
							52T	37	13.66	13.68	16.22	9.121	9.121	14.661			
								38	13.67	13.66	16.22	9.006	9.202	14.645			
								40	13.68	13.68	16.23	9.072	9.175	14.664			
			-0.44	2.42	6175	45	SU	--	20.44	20.39	22.99	8.619	8.467	13.974			
							52T	37	13.74	13.72	16.30	8.889	8.928	14.339			
								38	13.68	13.70	16.26	9.082	8.961	14.452			
								40	13.67	13.67	16.24	8.809	9.059	14.366			
			-0.09	2.65	6415	93	SU	--	20.46	20.43	23.37	8.458	8.684	14.233			
							52T	37	13.71	13.71	16.63	9.048	8.893	14.631			
								38	13.66	13.68	16.59	9.119	9.250	14.845			
								40	13.72	13.61	16.59	9.183	9.082	14.793			
40MHz	0	0	-0.46	2.53	5965	3	SU	--	20.36	20.37	22.92	6.548	6.584	12.106			
							242T	61	20.44	20.43	22.99	8.540	8.582	14.101			
								62	20.38	20.41	22.95	8.594	8.525	14.100			
								SU	--	20.37	20.32	22.92	6.401	6.459	11.860		
			-0.44	2.42	6165	43	242T	61	20.32	20.48	22.97	8.711	8.859	14.216			
							62	20.31	20.45	22.95	8.564	8.702	14.064				
								--	20.48	20.32	23.32	6.346	6.433	12.050			
							-0.09	2.65	6405	91	242T	61	20.48	20.45	23.39	8.624	8.407
			62	20.37	20.46	23.34					8.591	8.532	14.222				
				SU	--	20.47					20.41	22.99	3.977	3.737	9.539		
			80MHz	0.14	0	-0.46					2.53	5985	7	SU	--	20.48	20.47
							242T	61	20.43	20.43				22.98	8.525	8.489	14.047
62	20.45	20.47						23.01	8.511	8.658				14.125			
64	20.47	20.41						23.01	3.666	3.542				9.175			
-0.44	2.42	6145				39	242T	61	20.42	20.41	22.99	8.611	8.613	14.042			
							62	20.48	20.43	23.03	8.852	8.623	14.169				
								64	20.44	20.46	23.02	8.694	8.602	14.079			
							-0.09	2.65	6385	87	SU	--	20.48	20.41	23.37	3.559	3.511
242T	61	20.46				20.44					23.37	8.750	8.928	14.500			
	62	20.47				20.46					23.39	8.583	8.557	14.230			
	64	20.46				20.45					23.38	8.551	8.415	14.144			
160MHz	0.25	0				-0.46	2.53	6025	15	SU	--	19.97	19.96	22.52	-0.092	-0.086	5.701
			242T	61	20.31					20.47	22.94	8.828	8.888	14.398			
				62	20.45					20.47	23.01	8.732	8.794	14.303			
				S64	20.44					20.40	22.97	8.844	8.656	14.291			
			-0.44	2.42	6185	47	SU	--	19.95	19.98	22.54	-0.070	-0.083	5.604			
							242T	61	20.34	20.44	22.96	9.047	8.835	14.373			
								62	20.42	20.45	23.01	8.836	8.968	14.333			
								S64	20.41	20.28	22.92	8.661	8.690	14.106			
			-0.09	2.65	6345	79	SU	--	20.42	20.46	23.36	0.542	0.526	6.444			
							242T	61	20.46	20.37	23.34	9.046	8.818	14.594			
								62	20.34	20.28	23.23	8.608	8.604	14.266			
								S64	20.48	20.29	23.31	8.828	8.831	14.490			

Note:

EIRP MIMO Output Power (dBm) = Measured Conducted Power (dBm) (Ant 1 + Ant 2) + Un-Correlated Antenna Gain (dBi)

EIRP MIMO PSD (dBm/MHz) = Measured Conducted PSD (dBm/MHz) (Ant 1 + Ant 2) + Duty Factor (dB) + Correlated Antenna Gain (dBi)

9.5.3. 802.11be SISO MODE IN THE UNII-7 BAND – STANDARD POWER

SP UNII-7 (SISO)	Duty Factor (dB)		Ant 1 Gain (dBi)	Ant 2 Gain (dBi)	Frequency (MHz)	Channel Number	Tone	RU Index	Conducted Power (Gated) (dBm)		EIRP Power (Limit = 30dBm EIRP)		Conducted PSD (dBm/MHz)		EIRP PSD (Limit = 17 dBm/MHz EIRP)				
	SU	Partial RU							Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2			
20MHz	0	0	2.00	-4.40	6535	117	SU	--	19.95	19.97	21.95	15.57	8.260	8.152	10.260	3.752			
								37	13.21	13.22	15.21	8.82	8.403	8.420	10.403	4.020			
								38	13.19	13.19	15.19	8.79	8.157	8.356	10.157	3.956			
							52T	40	13.19	13.23	15.19	8.83	8.377	8.334	10.377	3.934			
								SU	--	19.98	19.89	21.98	15.49	8.262	7.919	10.262	3.519		
									52T	37	13.22	13.15	15.22	8.75	8.474	8.129	10.474	3.729	
					38	13.24	13.18			15.24	8.78	8.458	8.232	10.458	3.832				
					6695	149	SU	40	13.19	13.23	15.19	8.83	8.235	8.359	10.235	3.959			
								52T	--	19.95	19.89	21.95	15.49	8.201	8.226	10.201	3.826		
									37	13.23	13.17	15.23	8.77	8.340	8.317	10.340	3.917		
							38		13.22	13.17	15.22	8.77	8.311	8.334	10.311	3.934			
							6855	181	52T	40	13.24	13.16	15.24	8.76	8.211	8.370	10.211	3.970	
SU	--	19.91	19.92	21.91						15.52	5.524	5.584	7.524	1.184					
	242T	61	19.91	19.91	21.91	15.51				8.390	8.031	10.390	3.631						
		62	19.92	19.95	21.92	15.55	8.181	8.152	10.181	3.752									
40MHz	0	0	2.00	-4.40	6565	123	SU	--	19.93	19.93	21.93	15.53	5.751	5.916	7.751	1.516			
								242T	61	19.98	19.97	21.98	15.57	8.030	8.020	10.030	3.620		
									62	19.95	19.92	21.95	15.52	8.382	8.237	10.382	3.837		
					6685	147	242T	61	19.97	19.92	21.97	15.52	5.477	5.709	7.477	1.309			
								SU	61	19.91	19.94	21.91	15.54	7.949	8.057	9.949	3.657		
									62	19.98	19.92	21.98	15.52	7.998	7.912	9.998	3.512		
80MHz (FCC)	0.14	0	2.00	-4.40	6625	135	SU	--	19.95	19.95	21.95	15.55	2.583	2.582	4.723	-1.678			
								242T	61	19.87	19.95	21.87	15.55	7.956	8.335	9.956	3.935		
									62	19.93	19.91	21.93	15.51	8.168	8.172	10.168	3.772		
							6705	151	242T	64	19.91	19.94	21.91	15.54	8.131	8.169	10.131	3.769	
										SU	--	19.93	19.93	21.93	15.53	2.609	2.316	4.749	-1.944
											61	19.89	19.98	21.89	15.58	8.203	8.254	10.203	3.854
62	19.96	19.95	21.96	15.55	7.954	8.278	9.954	3.878											
80MHz	0.14	0	2.00	-4.40	6785	167	242T	64	19.95	19.91	21.95	15.51	8.028	8.126	10.028	3.726			
								SU	--	19.98	19.95	21.98	15.55	2.250	2.298	4.390	-1.962		
									61	19.94	19.98	21.94	15.58	7.955	8.221	9.955	3.821		
					62	19.94	19.92			21.94	15.52	7.967	8.060	9.967	3.660				
					6665	143	242T	64	19.95	19.97	21.95	15.57	8.035	8.029	10.035	3.629			
								SU	--	19.93	19.92	21.93	15.52	0.229	0.192	2.479	-3.958		
61	19.91	19.93	21.91	15.53					8.386	8.359	10.386	3.959							
62	19.91	19.92	21.91	15.52	8.335	8.299	10.335		3.899										
160MHz	0.25	0	2.00	-4.40	6665	143	242T	S64	19.96	19.93	21.96	15.53	8.323	8.268	10.323	3.868			

Note:

EIRP Output Power (dBm) = Measured Conducted Power (dBm)+ Peak Antenna Gain (dBi)

EIRP PSD (dBm/MHz) = Measured Conducted PSD (dBm/MHz) + Duty Factor (dB) + Peak Antenna Gain (dBi)

9.5.4. 802.11be MIMO CDD MODE IN THE UNII-7 BAND – STANDARD POWER

SP CDD UNII-7 (MIMO)	Duty Factor (dB)		Un-Correlated Antenna Gain (dBi)	Correlated Antenna Gain (dBi)	Frequency (MHz)	Channel Number	Tone	RU Index	Conducted Power (Gated)		EIRP MIMO Power (Limit = 30dBm EIRP)	Conducted PSD (dBm/MHz)		EIRP MIMO PSD (Limit = 17 dBm/MHz EIRP)
	SU	Partial Rus							Ant 1	Ant 2		Ant 1	Ant 2	
20MHz	0	0	-0.11	2.39	6535	117	SU	--	19.92	19.92	22.82	8.275	7.919	13.501
								37	13.23	13.19	16.11	8.342	8.208	13.676
							52T	38	13.17	13.22	16.10	8.086	8.146	13.516
								40	13.18	13.17	16.08	8.087	8.043	13.465
							SU	--	19.98	19.94	22.86	7.848	8.057	13.354
								37	13.22	13.17	16.10	8.265	8.178	13.622
					6695	149	52T	38	13.17	13.15	16.06	8.219	7.922	13.473
								40	13.21	13.24	16.13	8.259	8.100	13.581
							SU	--	19.94	19.89	22.82	8.196	8.127	13.562
								37	13.24	13.19	16.12	8.279	8.045	13.564
							52T	38	13.23	13.16	16.10	8.140	7.979	13.461
								40	13.24	13.23	16.14	8.247	7.824	13.441
40MHz	0	0	-0.11	2.39	6565	123	SU	--	19.93	19.97	22.85	5.862	5.851	11.257
								61	19.92	19.92	22.82	8.244	8.215	13.630
							242T	62	19.94	19.93	22.84	8.244	8.436	13.741
							SU	--	19.98	19.91	22.85	5.331	5.467	10.800
								61	19.93	19.94	22.84	8.218	8.345	13.682
							242T	62	19.91	19.93	22.82	8.167	8.176	13.572
					6685	147	SU	--	19.94	19.92	22.83	5.342	5.317	10.730
								61	19.95	19.92	22.84	7.989	8.081	13.436
							242T	62	19.89	19.92	22.81	7.721	7.972	13.249
							SU	--	19.98	19.93	22.86	2.704	2.856	8.321
								61	19.92	19.93	22.83	8.257	8.219	13.638
							242T	62	19.89	19.91	22.80	8.313	8.297	13.705
80MHz (FCC)	0.14	0	-0.11	2.39	6625	135		64	19.93	19.95	22.84	8.248	8.277	13.663
							SU	--	19.91	19.95	22.83	2.894	2.590	8.285
								61	19.96	19.95	22.86	8.200	8.252	13.626
							242T	62	19.98	19.89	22.84	8.226	8.251	13.639
								64	19.96	19.94	22.85	8.382	8.305	13.744
							SU	--	19.93	19.92	22.83	3.152	3.016	8.625
					6705	151	242T	61	19.93	19.98	22.86	8.205	8.207	13.606
								62	19.95	19.96	22.86	8.205	8.249	13.627
								64	19.92	19.97	22.85	8.171	8.272	13.622
							SU	--	19.98	19.96	22.87	0.393	0.392	6.043
								61	19.95	19.91	22.83	8.321	8.414	13.768
							242T	62	19.97	19.92	22.85	8.210	8.252	13.631
6785	167	S64	64	19.92	19.92	22.82	8.260	8.278	13.669					

Note:

EIRP MIMO Output Power (dBm) = Measured Conducted Power (dBm) (Ant 1 + Ant 2) + Un-Correlated Antenna Gain (dBi)

EIRP MIMO PSD (dBm/MHz) = Measured Conducted PSD (dBm/MHz) (Ant 1 + Ant 2) + Duty Factor (dB) + Correlated Antenna Gain (dBi)

9.6. LP SPURIOUS EMISSIONS IN-BAND – EMISSION MASK

LIMITS

FCC §15.407

(b)(7) For transmitters operating within the 5.925-7.125 GHz bands: power spectral density must be suppressed by 20 dB at 1 MHz outside of channel edge, by 28 dB at one channel bandwidth from the channel center, and by 40 dB at one- and one-half times the channel bandwidth away from channel center. At frequencies between one megahertz outside an unlicensed device's channel edge and one channel bandwidth from the center of the channel, the limits must be linearly interpolated between 20 dB and 28 dB suppression, and at frequencies between one and one- and one-half times an unlicensed device's channel bandwidth, the limits must be linearly interpolated between 28 dB and 40 dB suppression. Emissions removed from the channel center by more than one- and one-half times the channel bandwidth must be suppressed by at least 40 dB.

TEST PROCEDURE

Follow KCB 987594 D02 v01r01, Section II-J, RBW & VBW settings were based on 26dB bandwidth test settings. Only Partial RU tone for all bandwidths, the RBW & VBW settings were used equal or greater than 26dB bandwidth test settings.

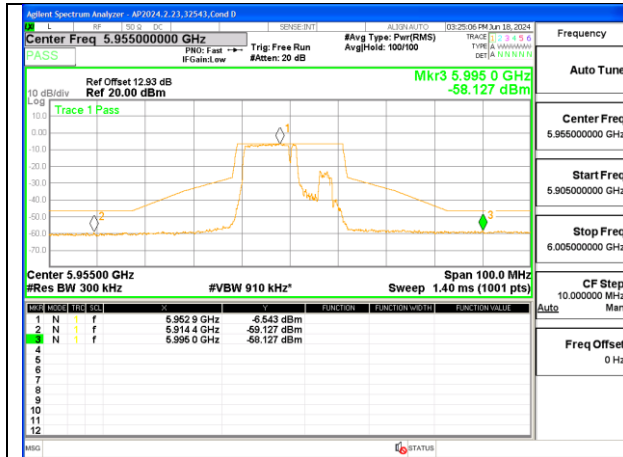
Band	Tones	20MHz	40MHz	80MHz	160MHz
UNII-5	Partial RU	300kHz/910kHz	510kHz/1.6MHz	510kHz/1.6MHz	1MHz/3MHz
	SU	300kHz/910kHz	510kHz/1.6MHz	1MHz/3MHz	2MHz/6MHz
UNII-6	Partial RU	300kHz/910kHz	510kHz/1.6MHz	510kHz/1.6MHz	1MHz/3MHz
	SU	300kHz/910kHz	510kHz/1.6MHz	1MHz/3MHz	2MHz/6MHz
UNII-7	Partial RU	300kHz/910kHz	510kHz/1.6MHz	510kHz/1.6MHz	1MHz/3MHz
	SU	300kHz/910kHz	510kHz/1.6MHz	1MHz/3MHz	2MHz/6MHz
UNII-8	Partial RU	300kHz/910kHz	510kHz/1.6MHz	1MHz/3MHz	1MHz/3MHz
	SU	300kHz/910kHz	510kHz/1.6MHz	1MHz/3MHz	2MHz/6MHz

RESULTS

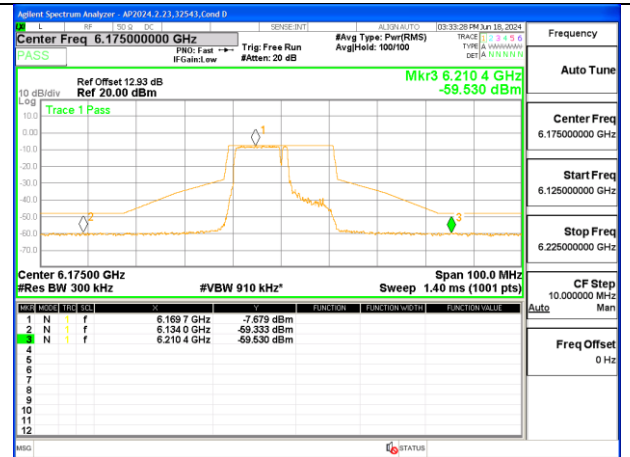
For mask and bandwidth measurements partial RU allocations are tested with the RUs allocated at the lower and upper positions within the channel for the low mid and high channels in each band. Additionally, the center channel is also tested with the RU allocated in the center of the channel to verify that the low / high RU allocations are worst case.

9.6.1. 802.11be EHT20 MODE IN THE UNII-5 BAND

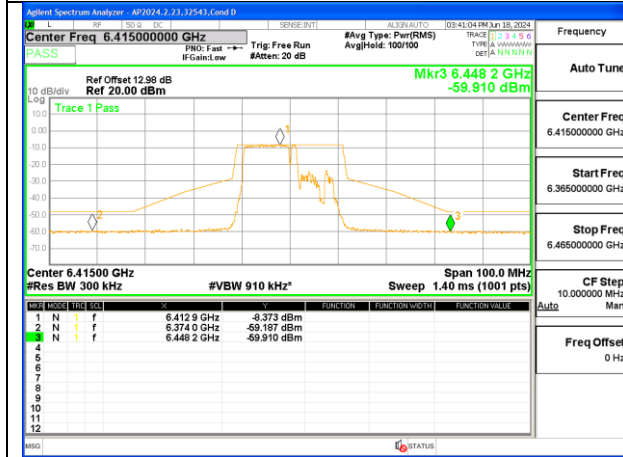
1TX Antenna 6 MODE (FCC-IC) MOBILE – MRU106+26-Tones, RU Index 82



LOW CHANNEL 5955

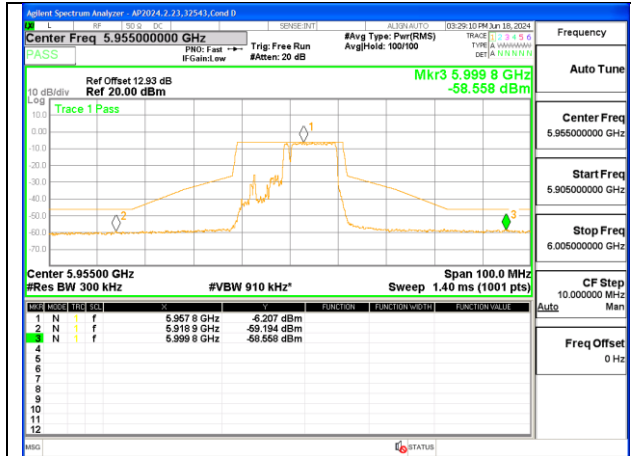


MID CHANNEL 6175

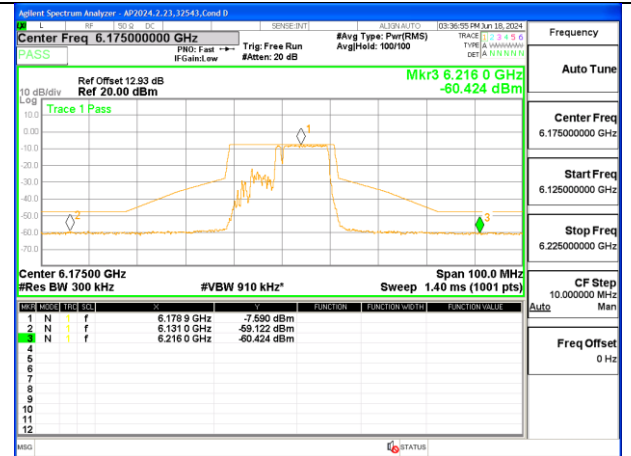


HIGH CHANNEL 6415

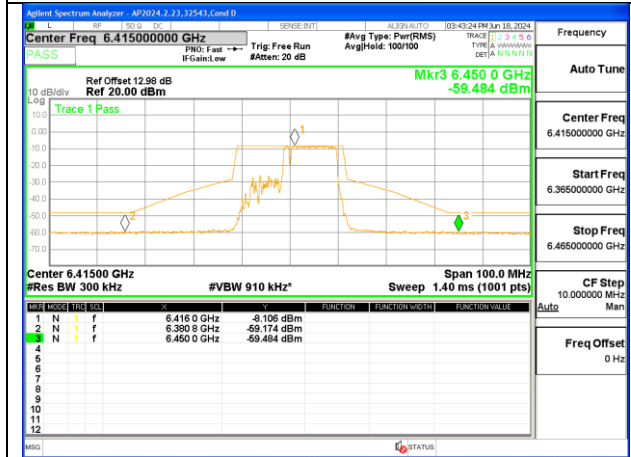
1TX Antenna 6 MODE (FCC+IC) MOBILE – MRU106+26-Tones, RU Index 83



LOW CHANNEL 5955

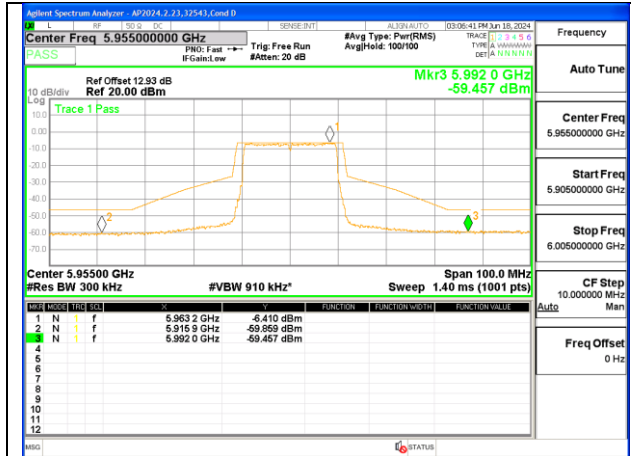


MID CHANNEL 6175

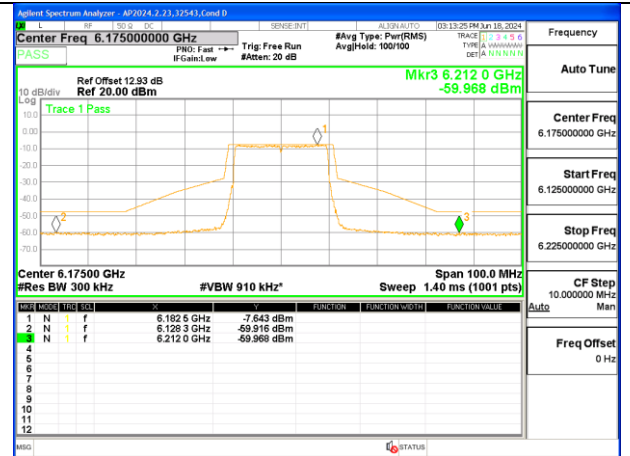


HIGH CHANNEL 6415

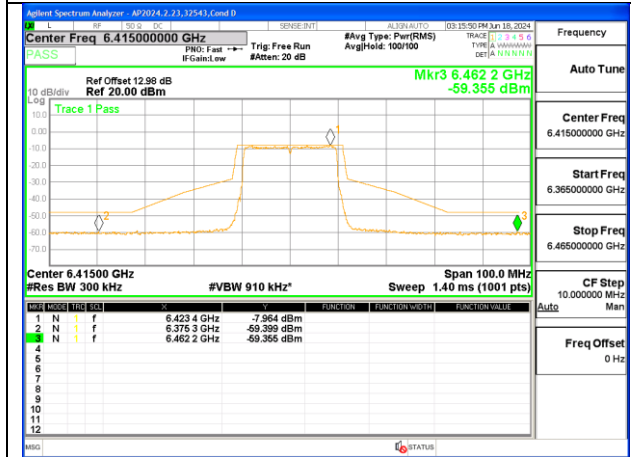
1TX Antenna 6 MODE (FCC+IC) MOBILE – SU MODE



LOW CHANNEL 5955

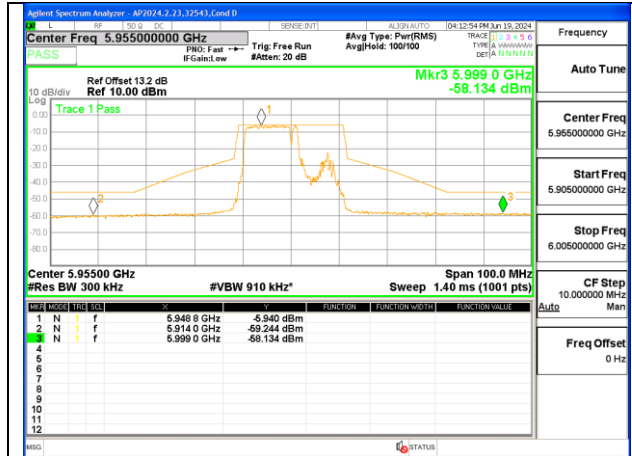


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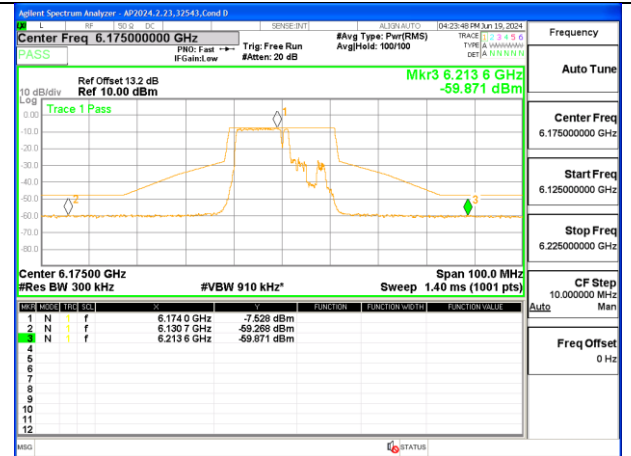


HIGH CHANNEL 6415

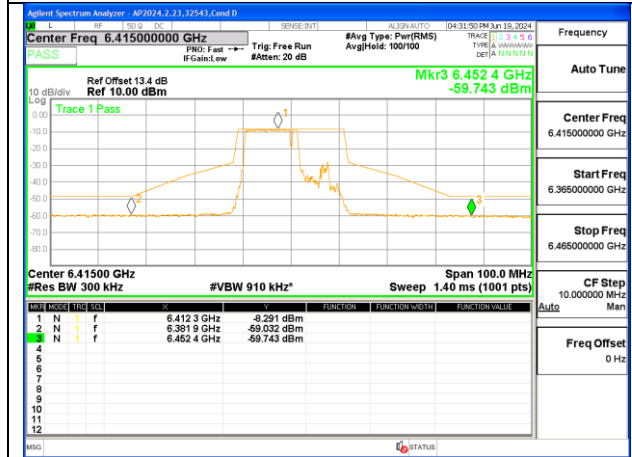
1TX Antenna 5 MODE (FCC+IC) MOBILE – MRU106+26-Tones, RU Index 82



LOW CHANNEL 5955

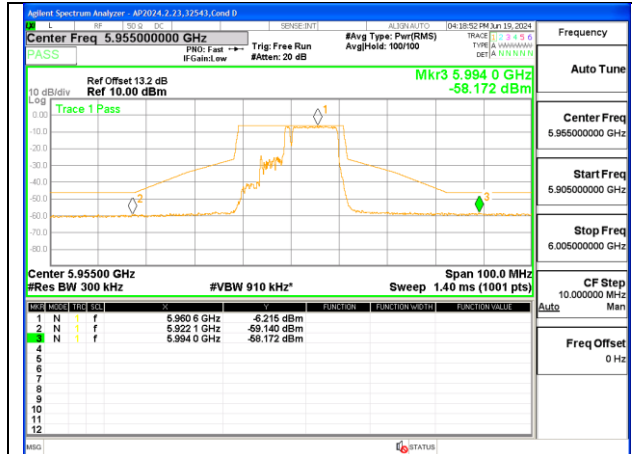


MID CHANNEL 6175

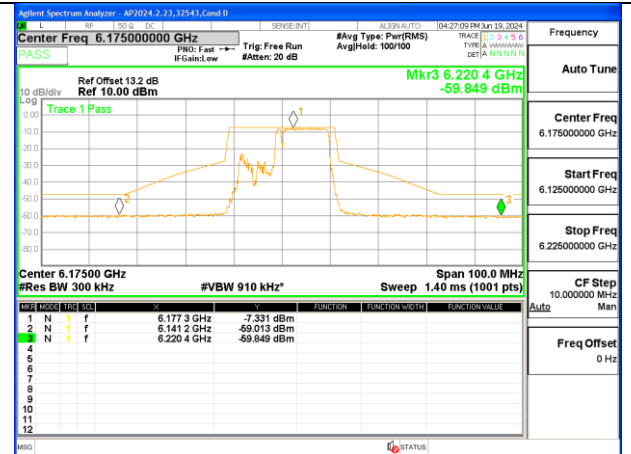


HIGH CHANNEL 6415

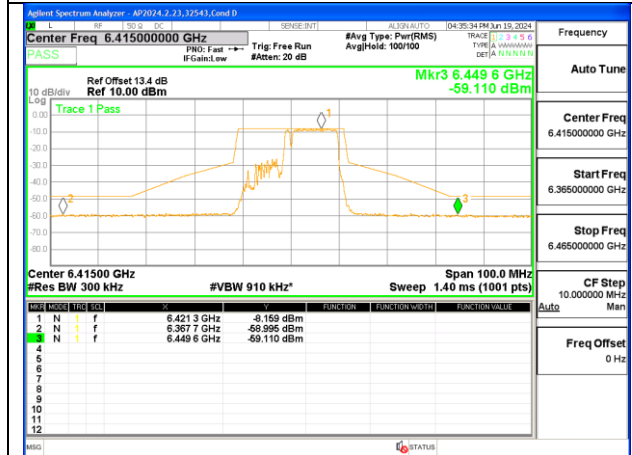
1TX Antenna 5 MODE (FCC+IC) MOBILE – MRU106+26-Tones, RU Index 83



LOW CHANNEL 5955

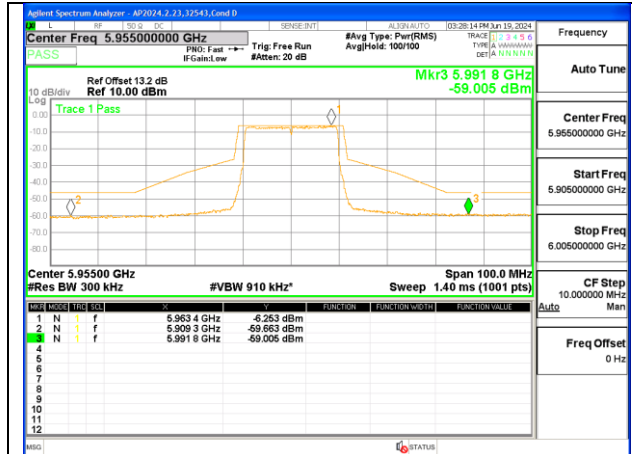


MID CHANNEL 6175

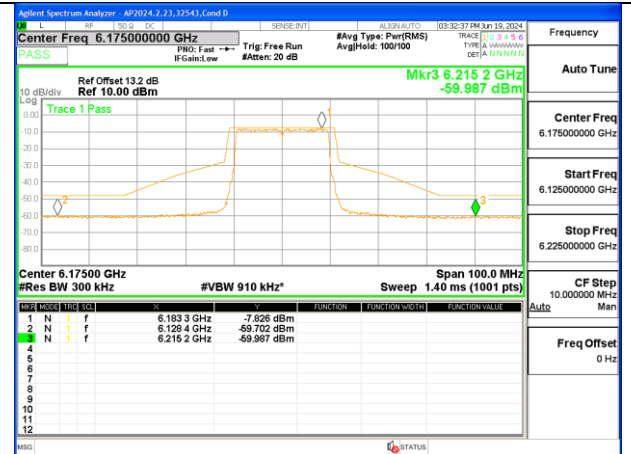


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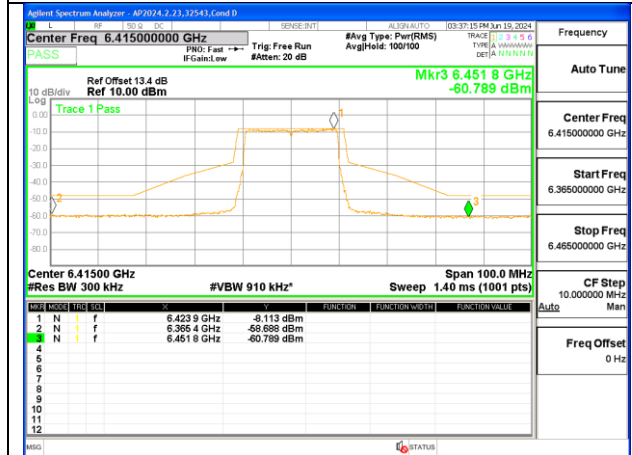
1TX Antenna 5 MODE (FCC+IC) MOBILE – SU MODE



LOW CHANNEL 5955

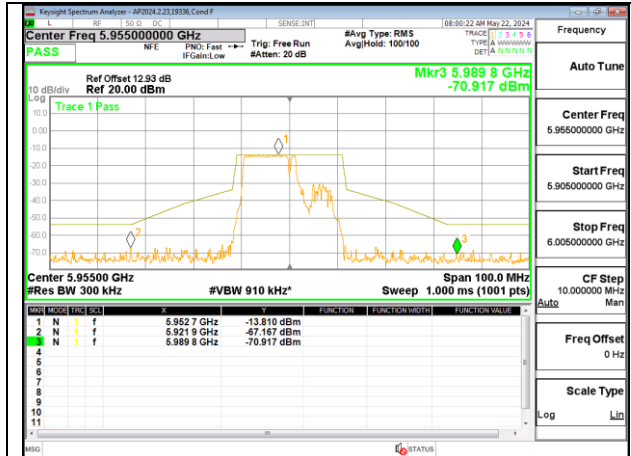


MID CHANNEL 6175

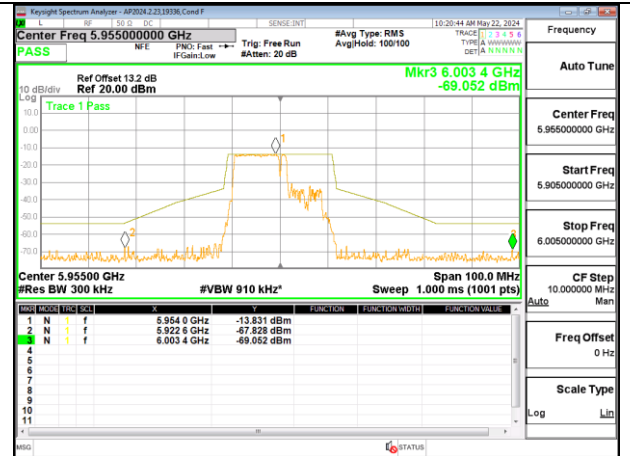


HIGH CHANNEL 6415

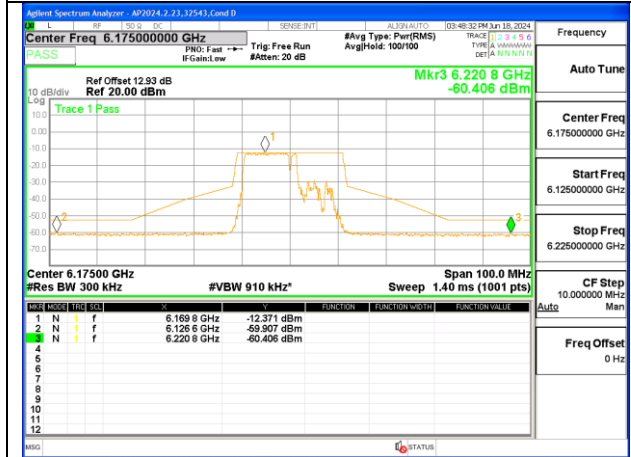
2TX Antenna 6 + Antenna 5 OFDMA MODE (FCC + IC) – MRU106+26-Tones, RU Index 82



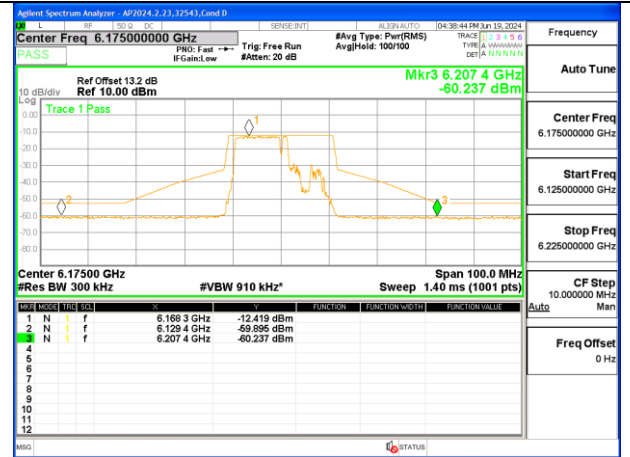
LOW CHANNEL ANT 6 5955



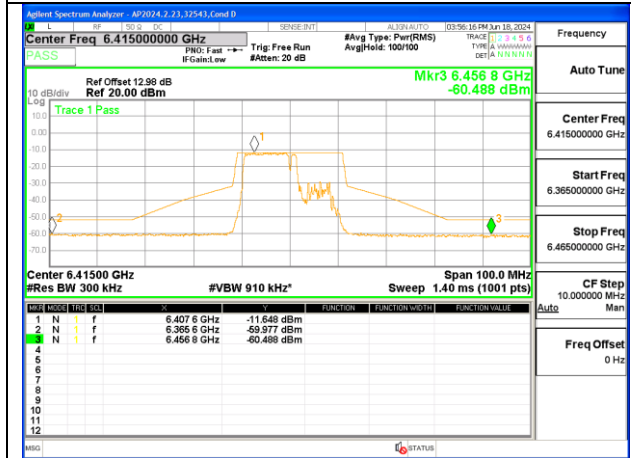
LOW CHANNEL ANT 5 5955



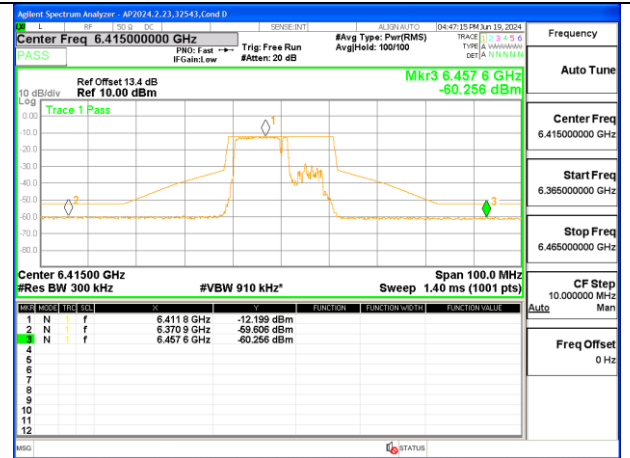
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MID CHANNEL ANT 5 6175

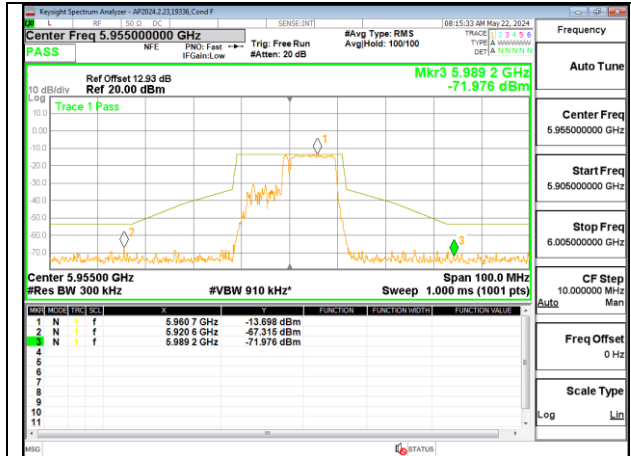


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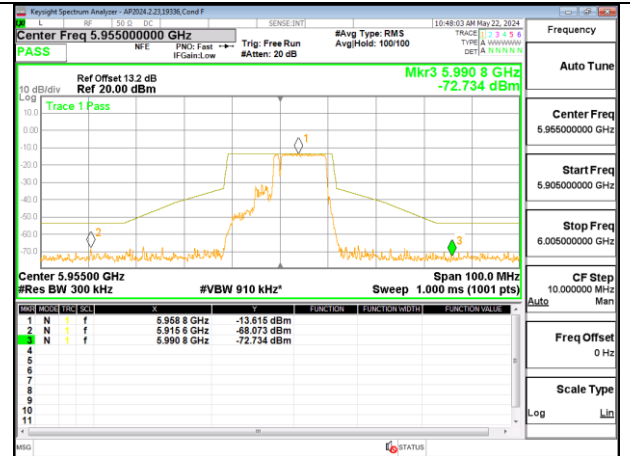


HIGH CHANNEL ANT 5 6415

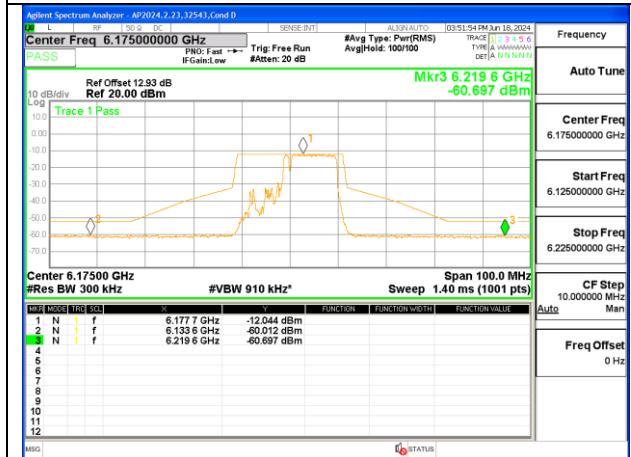
2TX Antenna 6 + Antenna 5 OFDMA MODE (FCC + IC) – MRU106+26-Tones, RU Index 83



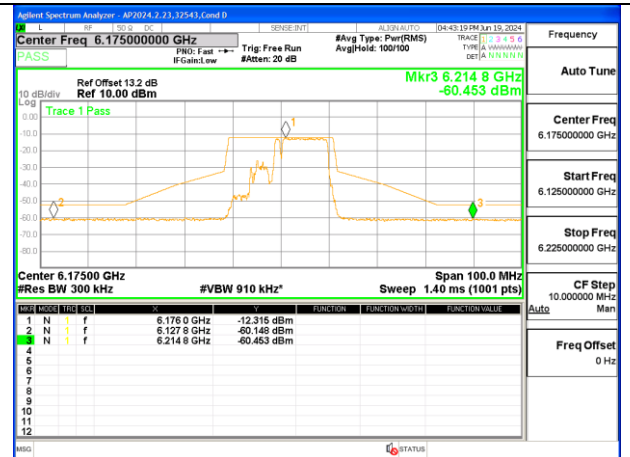
LOW CHANNEL ANT 6 5955



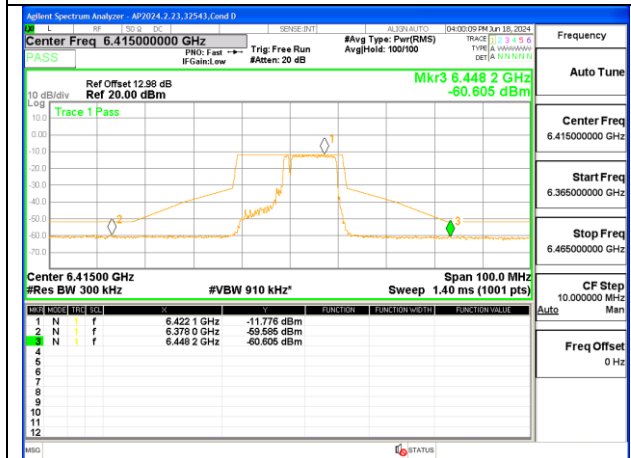
LOW CHANNEL ANT 5 5955



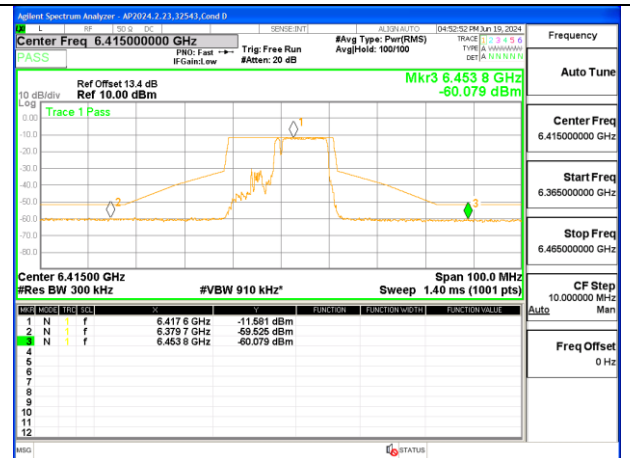
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MID CHANNEL ANT 5 6175

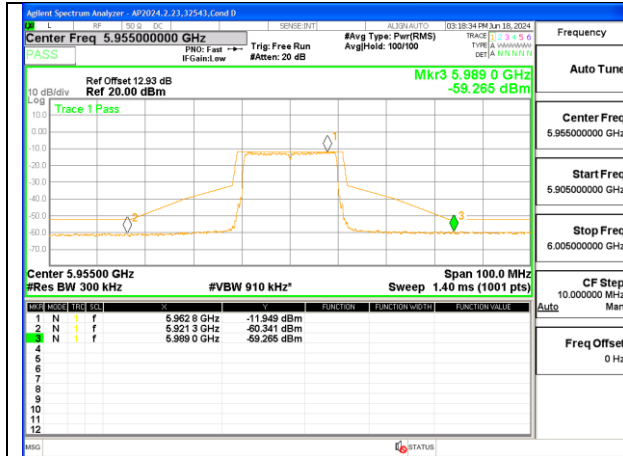


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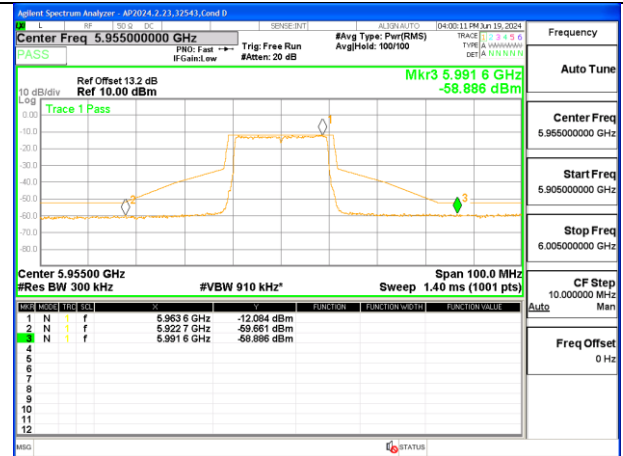


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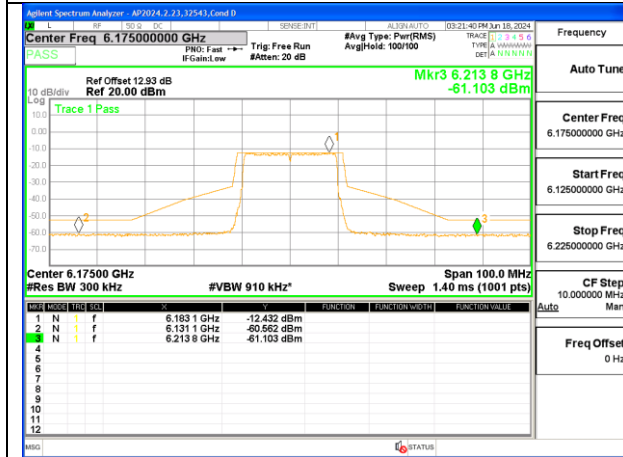
2TX Antenna 6 + Antenna 5 OFDMA MODE (FCC + IC) – SU MODE



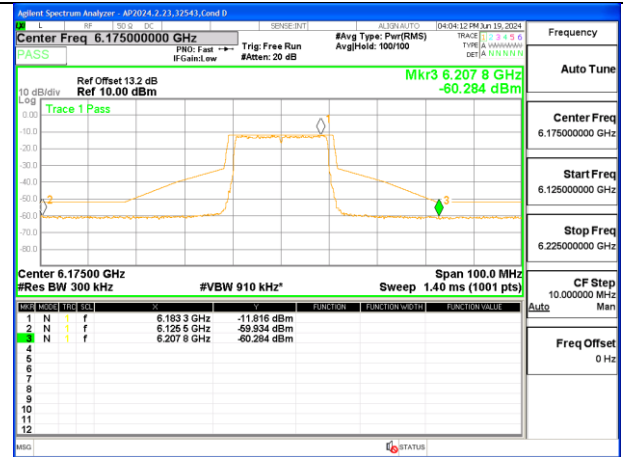
LOW CHANNEL ANT 6 5955



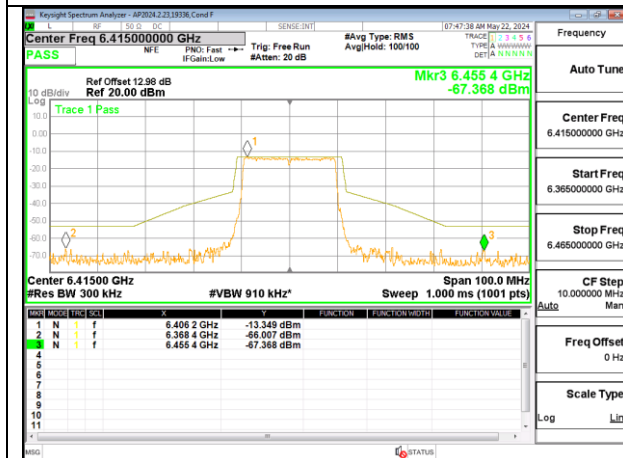
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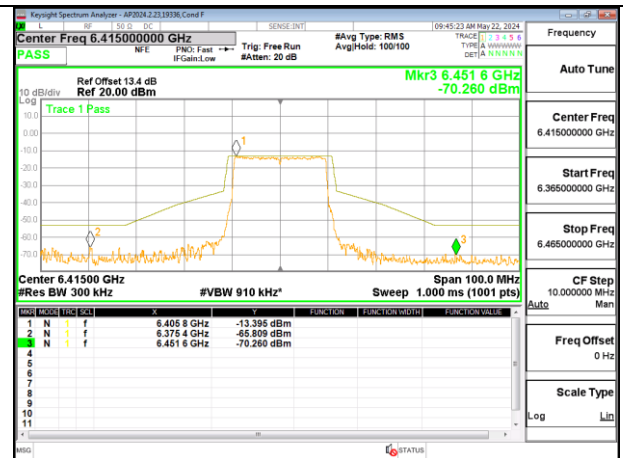
MID CHANNEL ANT 6 6175



MID CHANNEL ANT 5 6175

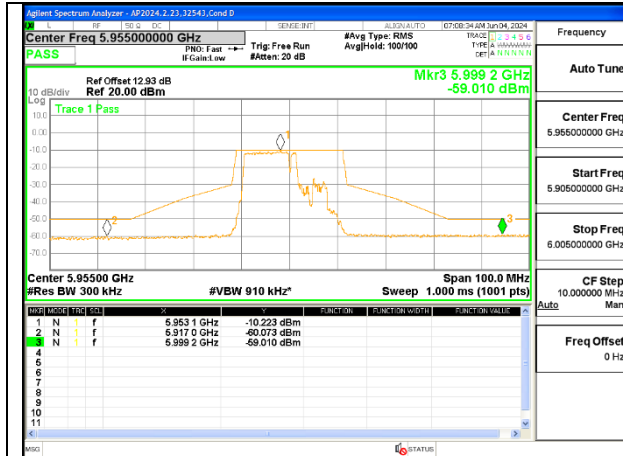


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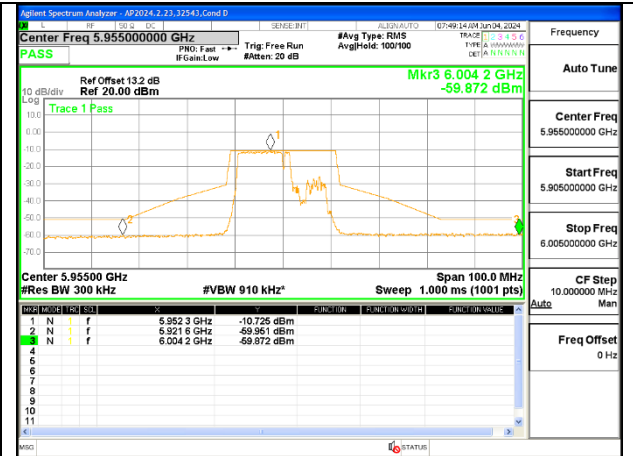


HIGH CHANNEL ANT 5 6415

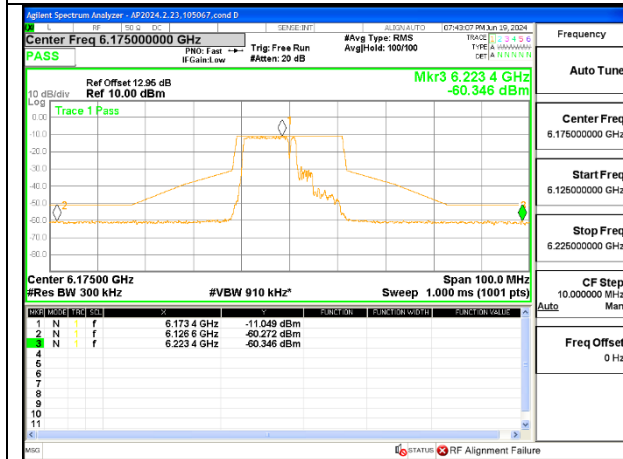
2TX Antenna 6 + Antenna 5 SDM MODE (FCC + IC) – MRU106+26-Tones, RU Index 82



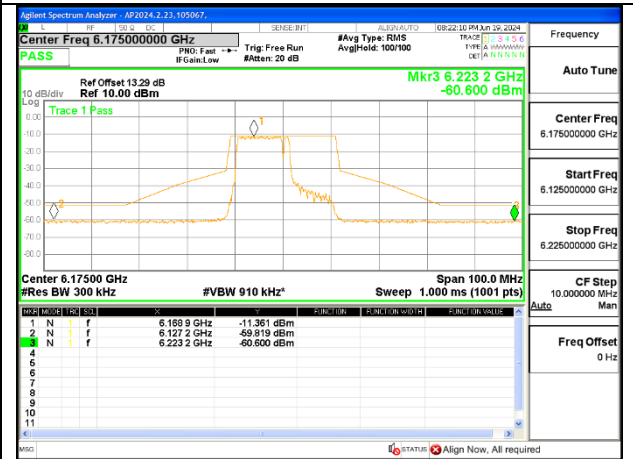
LOW CHANNEL ANT 6 5955



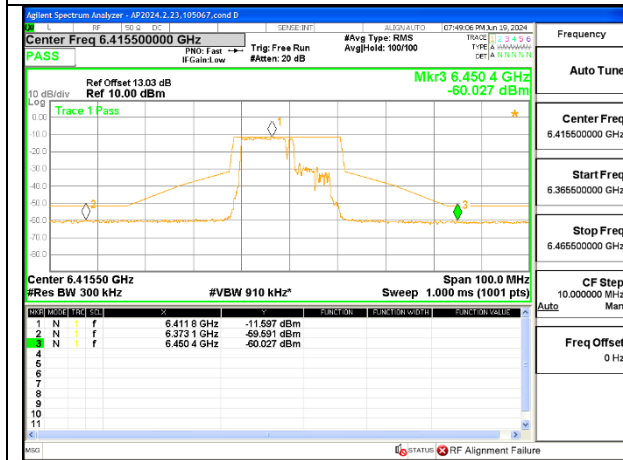
LOW CHANNEL ANT 5 5955



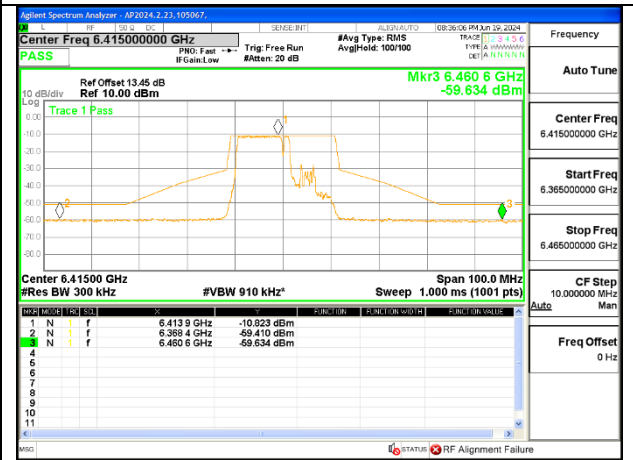
MID CHANNEL ANT 6 6175



MID CHANNEL ANT 5 6175

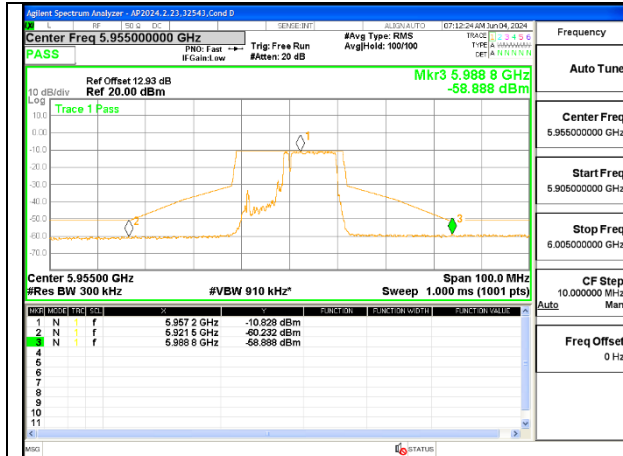


HIGH CHANNEL ANT 6 6415

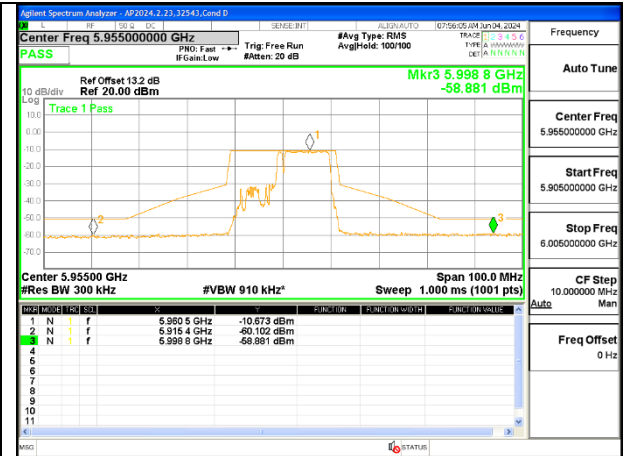


HIGH CHANNEL ANT 5 6415

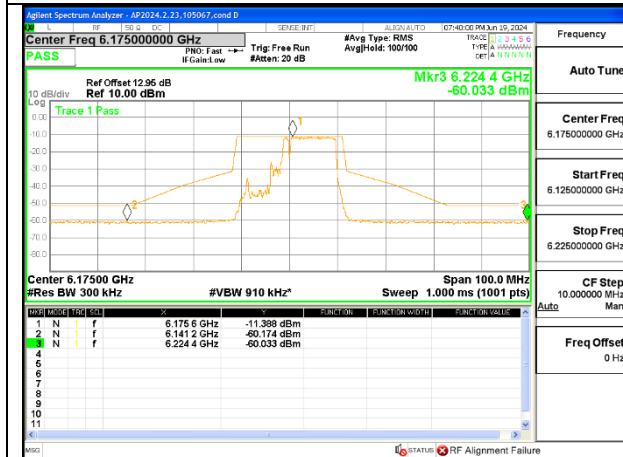
2TX Antenna 6 + Antenna 5 SDM MODE (FCC + IC) – MRU106+26-Tones, RU Index 83



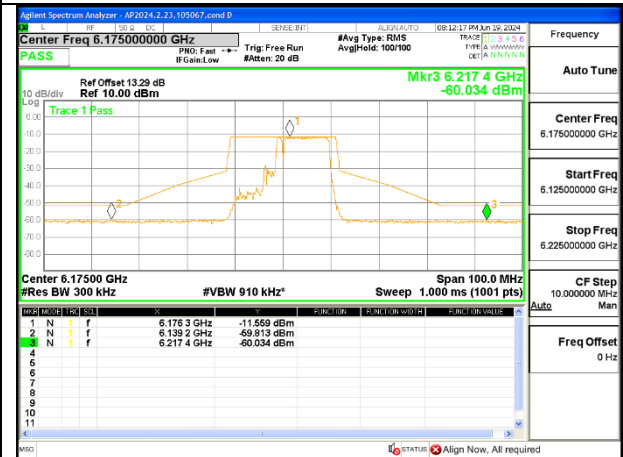
LOW CHANNEL ANT 6 5955



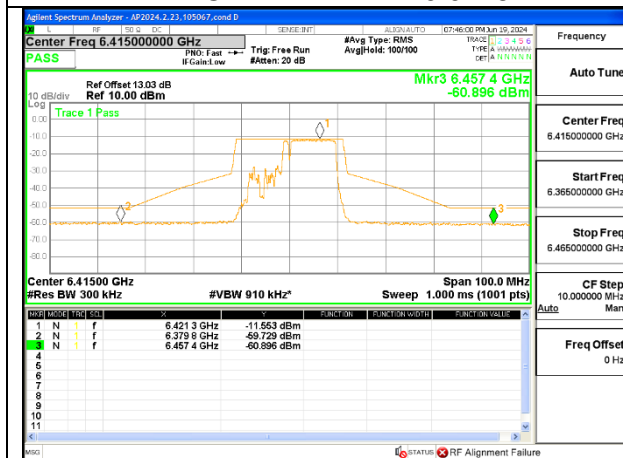
LOW CHANNEL ANT 5 5955



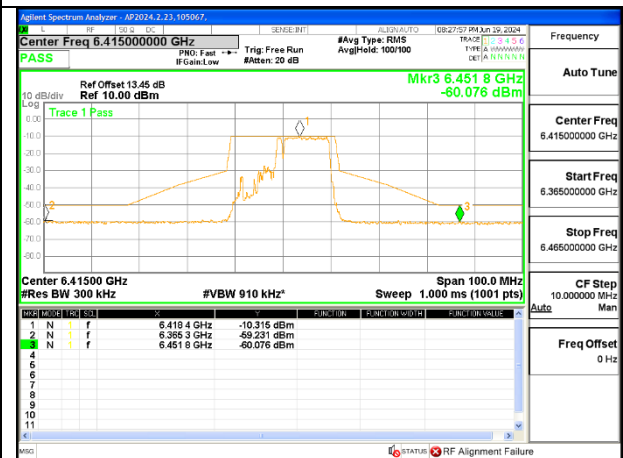
MID CHANNEL ANT 6 6175



MID CHANNEL ANT 5 6175

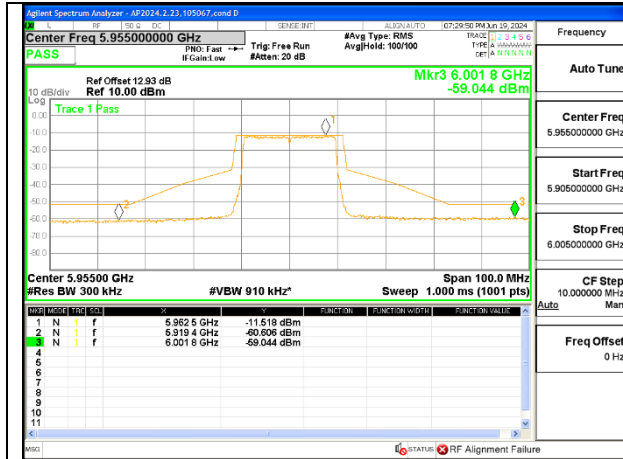


HIGH CHANNEL ANT 6 6415

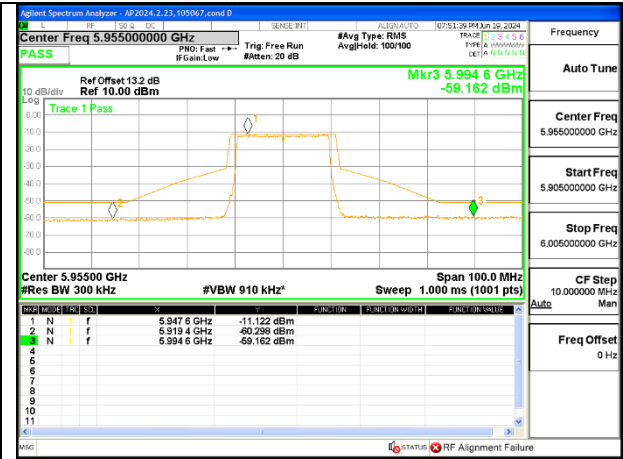


HIGH CHANNEL ANT 5 6415

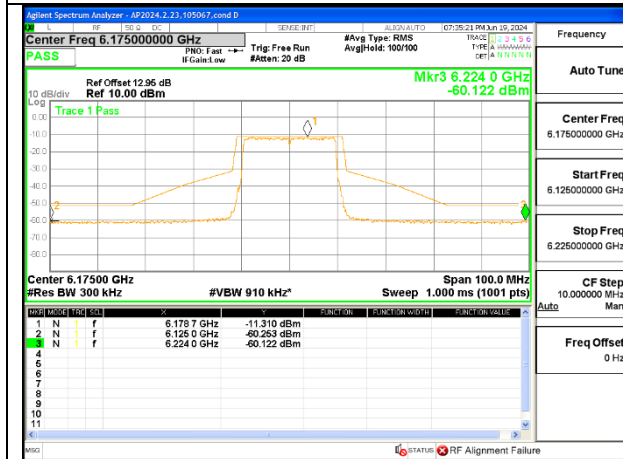
2TX Antenna 6 + Antenna 5 SDM MODE (FCC + IC) – SU Mode



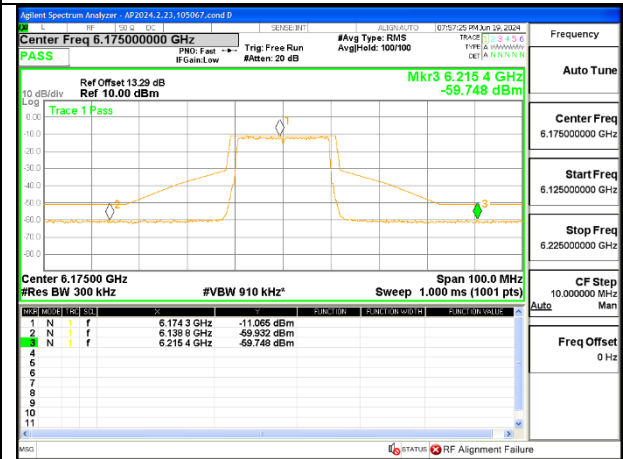
LOW CHANNEL ANT 6 5955



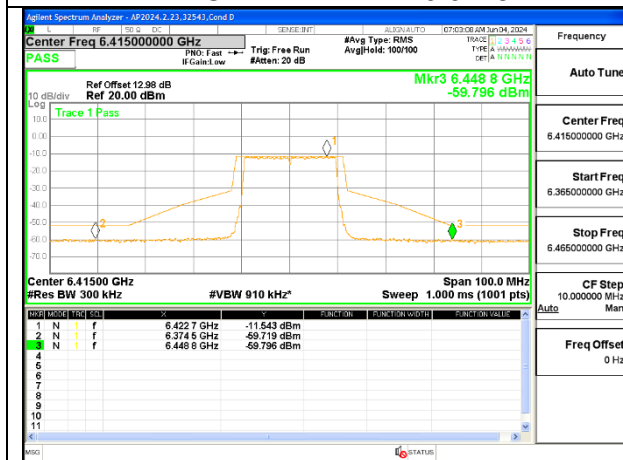
LOW CHANNEL ANT 5 5955



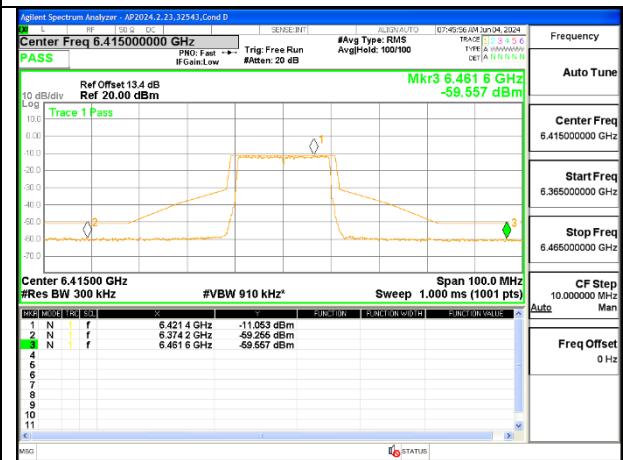
MID CHANNEL ANT 6 6175



MID CHANNEL ANT 5 6175



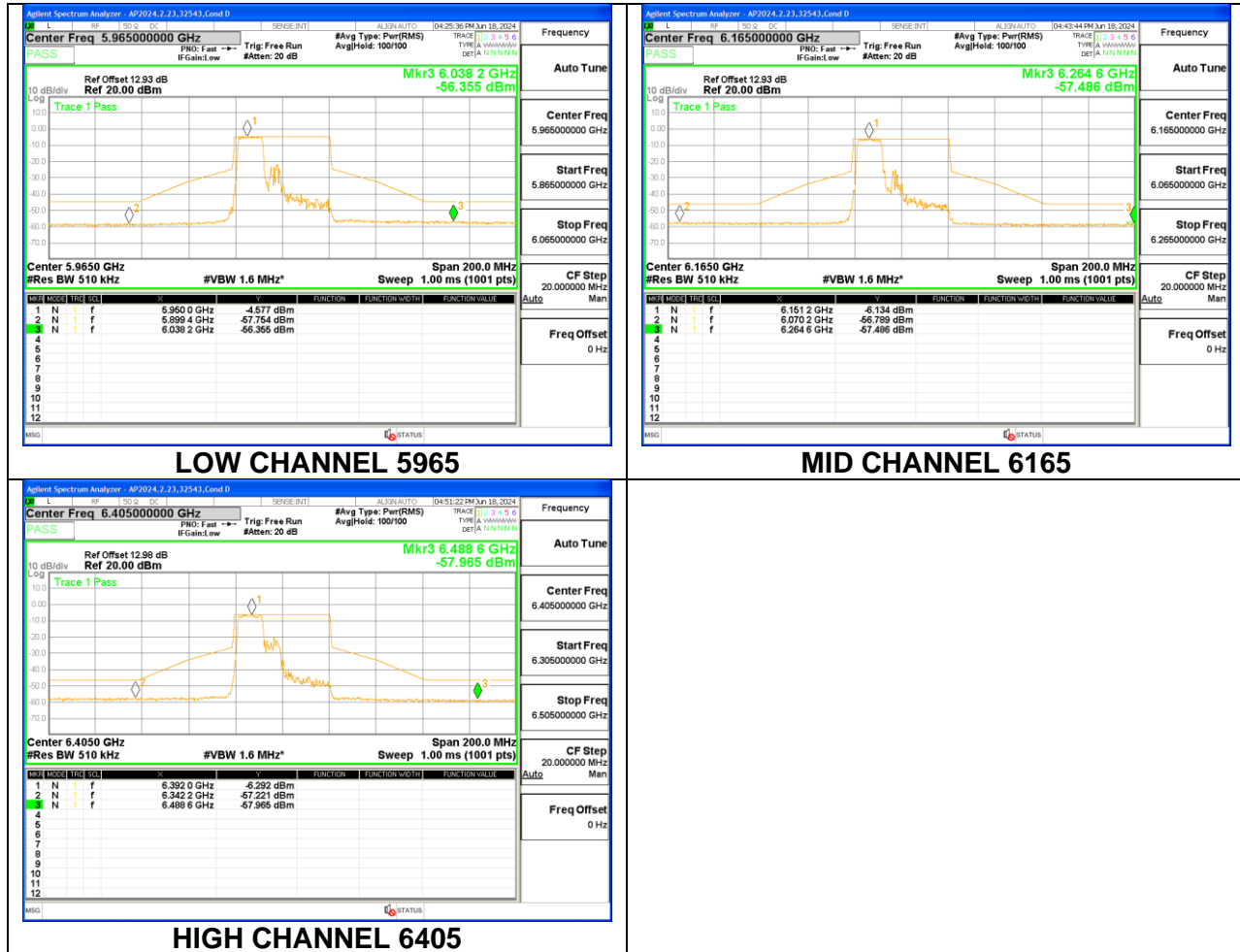
HIGH CHANNEL ANT 6 6415



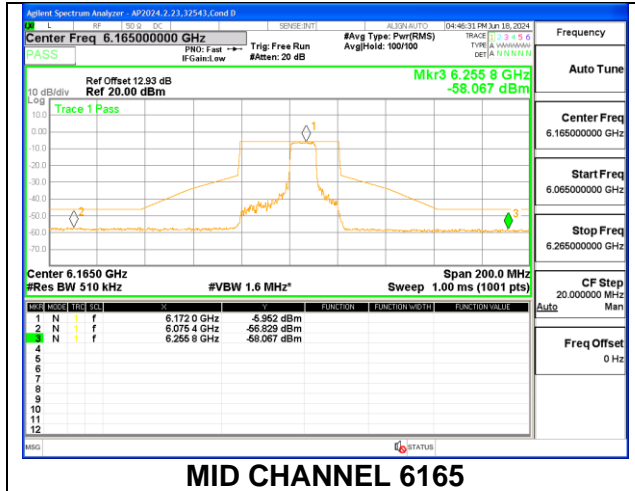
HIGH CHANNEL ANT 5 6415

9.6.2. 802.11be EHT40 MODE IN THE UNII-5 BAND

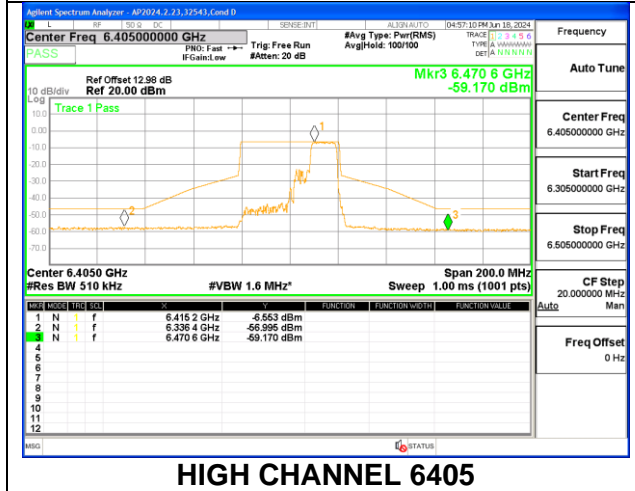
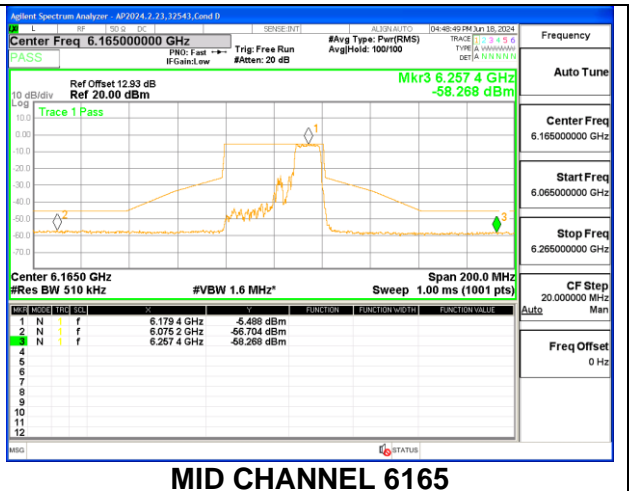
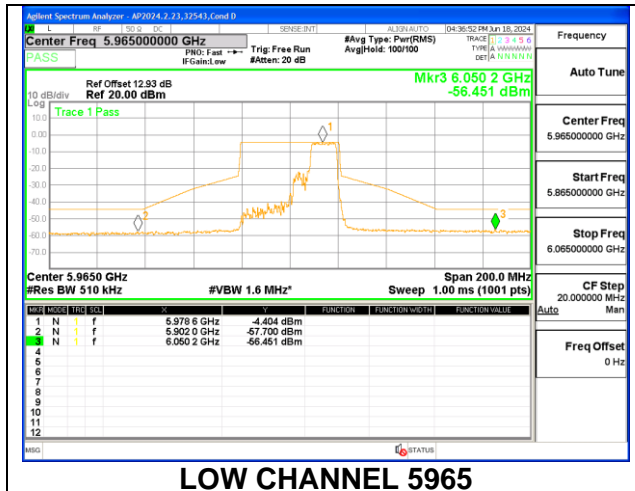
1TX Antenna 6 MODE (FCC-IC) MOBILE – MRU106+26-Tones, RU Index 82



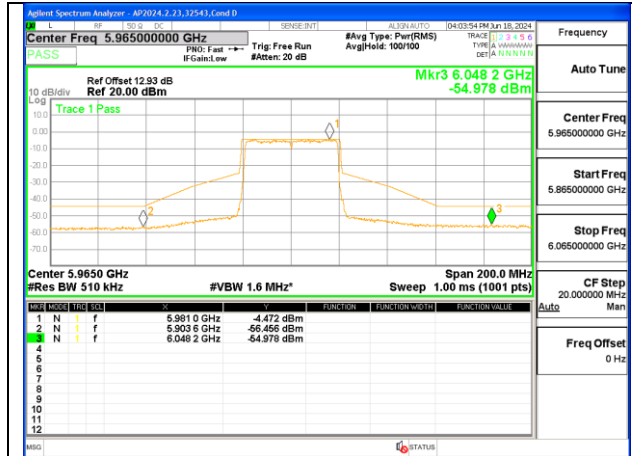
1TX Antenna 6 MODE (FCC-IC) MOBILE – MRU106+26-Tones, RU Index 84



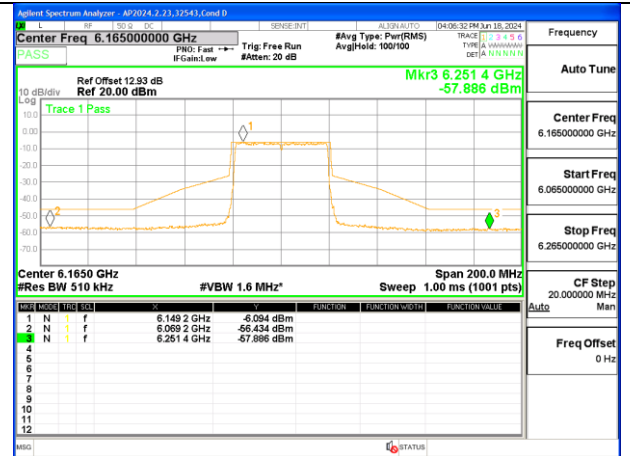
1TX Antenna 6 MODE (FCC-IC) MOBILE – MRU106+26-Tones, RU Index 85



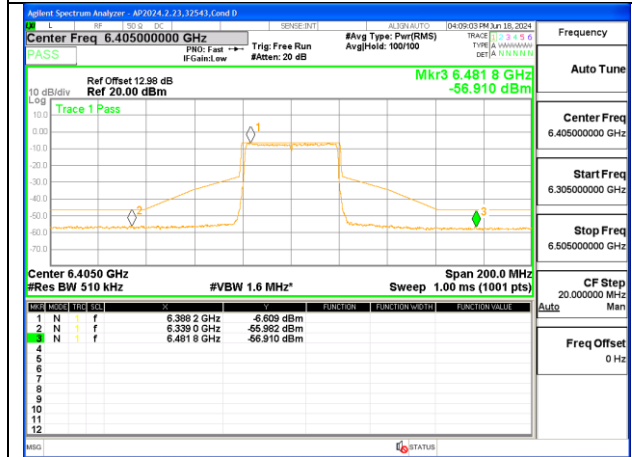
1TX Antenna 6 MODE (FCC+IC) MOBILE – SU MODE



LOW CHANNEL 5965

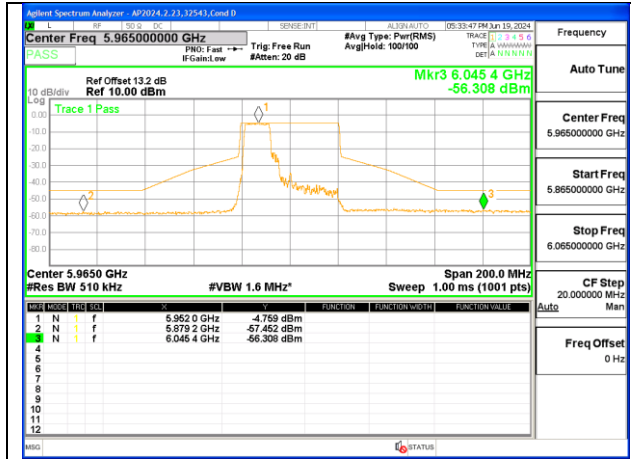


MID CHANNEL 6165

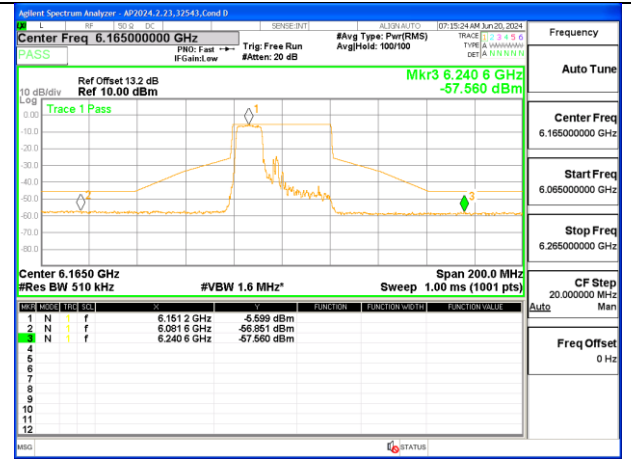


HIGH CHANNEL 6405

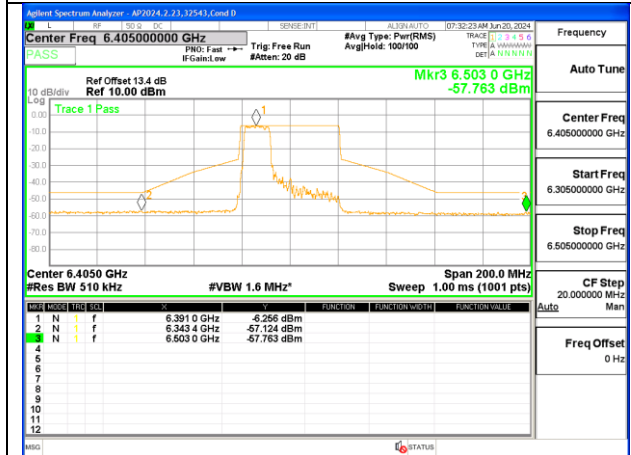
1TX Antenna 5 MODE (FCC+IC) MOBILE – MRU106+26-Tones, RU Index 82



LOW CHANNEL 5965



MID CHANNEL 6165



HIGH CHANNEL 6405