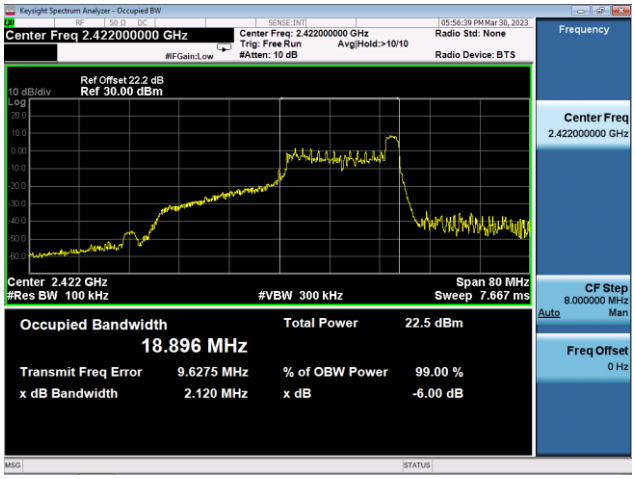
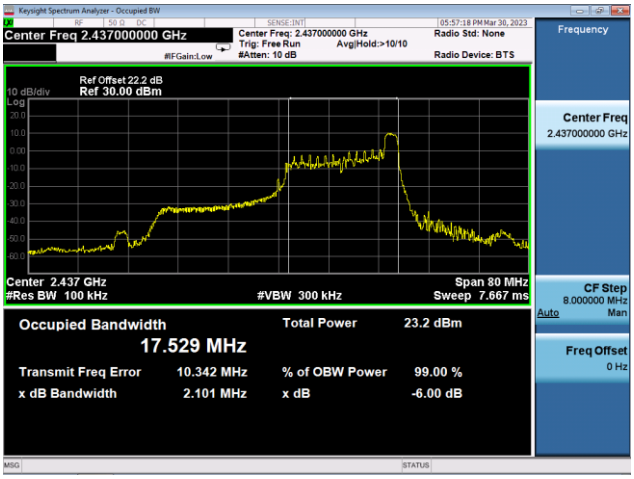
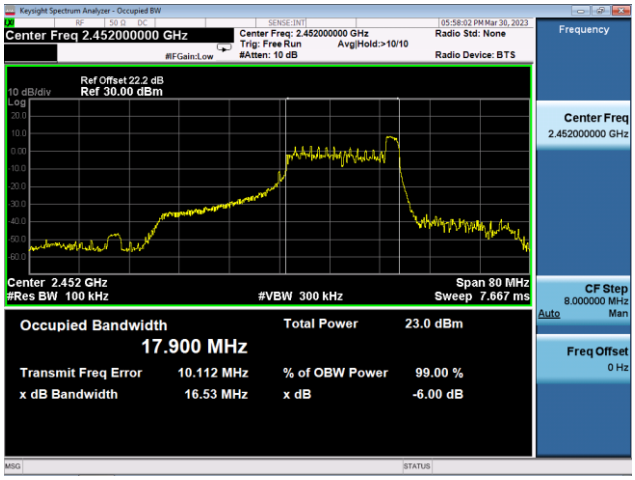
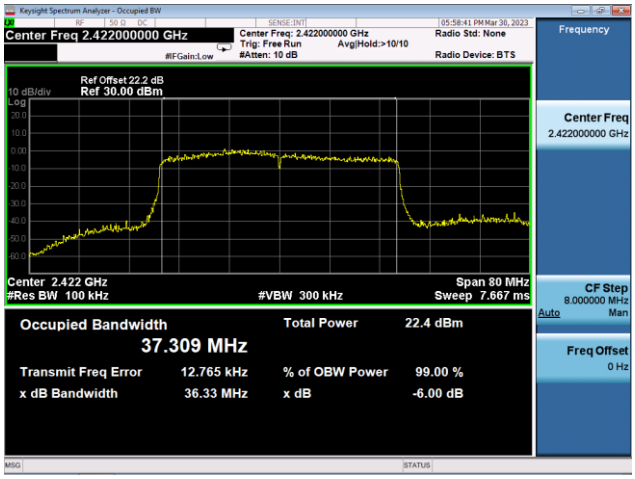
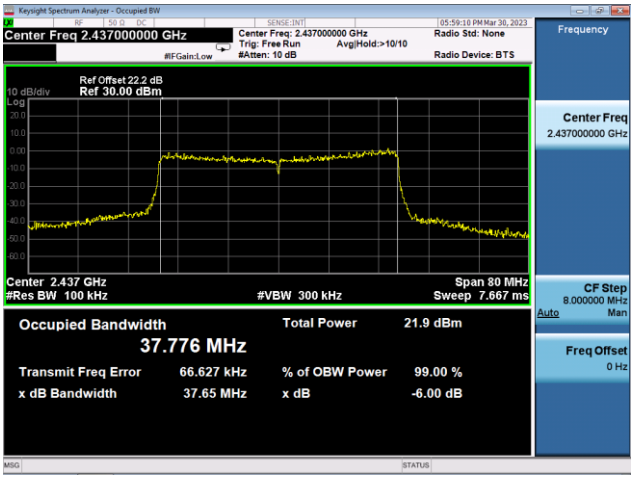
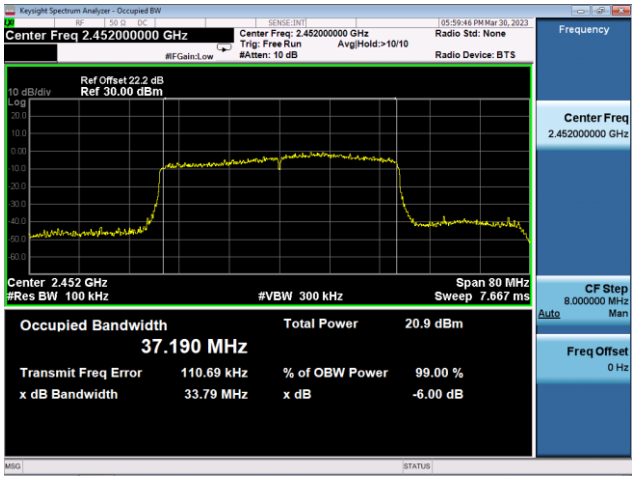
802.11ax-HE40 6dB Bandwidth - Ant 3 - 26 Tone RU 17	
Channel 03 (2422MHz)	Channel 06 (2437MHz)
	
Channel 09 (2452MHz)	
	

802.11ax-HE40 6dB Bandwidth - Ant 3 - 484 Tone RU 65	
Channel 03 (2422MHz)	Channel 06 (2437MHz)
	
Channel 09 (2452MHz)	
	

A.3 Output Power Test Result

Test Site	NS-TR2	Test Engineer	Summer Tang
Test Date	2023-03-08	Test Mode	MIMO Mode

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	Average Power (dBm)		Total Power (dBm)	Limit (dBm)
				Ant 3	Ant 2		
802.11b	1Mbps	01	2412	13.63	14.09	16.88	≤ 30.00
802.11b	1Mbps	06	2437	14.03	14.32	17.19	≤ 30.00
802.11b	1Mbps	11	2462	13.24	13.47	16.37	≤ 30.00
802.11g	6Mbps	01	2412	13.17	13.94	16.58	≤ 30.00
802.11g	6Mbps	06	2437	13.68	13.71	16.71	≤ 30.00
802.11g	6Mbps	11	2462	13.40	14.46	16.97	≤ 30.00
802.11n-HT20	MCS0	01	2412	13.12	13.83	16.50	≤ 30.00
802.11n-HT20	MCS0	06	2437	13.56	13.84	16.71	≤ 30.00
802.11n-HT20	MCS0	11	2462	13.20	14.05	16.66	≤ 30.00
802.11n-HT40	MCS0	03	2422	13.36	14.45	16.95	≤ 30.00
802.11n-HT40	MCS0	06	2437	13.80	14.38	17.11	≤ 30.00
802.11n-HT40	MCS0	09	2452	12.43	12.84	15.65	≤ 30.00
VHT20	MCS0	01	2412	13.72	14.56	17.17	≤ 30.00
VHT20	MCS0	06	2437	13.48	13.75	16.63	≤ 30.00
VHT20	MCS0	11	2462	13.24	13.94	16.61	≤ 30.00
VHT40	MCS0	03	2422	13.42	13.95	16.70	≤ 30.00
VHT40	MCS0	06	2437	13.68	14.38	17.05	≤ 30.00
VHT40	MCS0	09	2452	12.60	12.51	15.57	≤ 30.00
802.11ax-HE20	MCS0	01	2412	13.28	14.10	16.72	≤ 30.00
802.11ax-HE20	MCS0	06	2437	13.86	14.02	16.95	≤ 30.00
802.11ax-HE20	MCS0	11	2462	13.37	14.11	16.77	≤ 30.00
802.11ax-HE40	MCS0	03	2422	13.54	14.03	16.80	≤ 30.00
802.11ax-HE40	MCS0	06	2437	13.28	13.72	16.52	≤ 30.00
802.11ax-HE40	MCS0	09	2452	12.56	12.97	15.78	≤ 30.00

Note: Total Power (dBm) = $10*\log\{10^{(\text{Ant 3 Average Power }/10)} + 10^{(\text{Ant 2 Average Power }/10)}\}$.

Test Site	NS-TR2	Test Engineer	Summer Tang
Test Date	2023-04-04	Test Mode	Partial RU

Test Mode	RU Size	RU Index	Channel No.	Freq. (MHz)	Average Power (dBm)		Total Power (dBm)	Limit (dBm)
					Ant 3	Ant 2		
11ax-HE20	26 Tone	RU 0	01	2412	11.53	13.01	15.34	≤ 30.00
			06	2437	14.02	13.77	16.91	≤ 30.00
			11	2462	13.33	14.67	17.06	≤ 30.00
		RU 4	01	2412	13.07	13.80	16.46	≤ 30.00
			06	2437	13.85	13.94	16.91	≤ 30.00
			11	2462	13.99	14.35	17.18	≤ 30.00
		RU 8	01	2412	13.62	13.26	16.45	≤ 30.00
			06	2437	13.51	13.55	16.54	≤ 30.00
			11	2462	12.84	13.69	16.30	≤ 30.00
	242 Tone	RU 61	01	2412	13.70	14.17	16.95	≤ 30.00
			06	2437	13.75	13.81	16.79	≤ 30.00
			11	2462	12.99	13.59	16.31	≤ 30.00
11ax-HE40	26 Tone	RU 0	03	2422	11.64	12.97	15.37	≤ 30.00
			06	2437	13.68	13.25	16.48	≤ 30.00
			09	2452	11.49	11.76	14.64	≤ 30.00
		RU 8	03	2422	14.17	13.51	16.86	≤ 30.00
			06	2437	13.04	13.88	16.49	≤ 30.00
			09	2452	14.08	14.12	17.11	≤ 30.00
		RU 17	03	2422	12.74	13.61	16.21	≤ 30.00
			06	2437	14.35	13.63	17.02	≤ 30.00
			09	2452	12.79	13.01	15.91	≤ 30.00
	484 Tone	RU 65	03	2422	13.84	14.28	17.08	≤ 30.00
			06	2437	13.51	14.01	16.78	≤ 30.00
			09	2452	12.05	12.21	15.14	≤ 30.00

Note: Total Power (dBm) = $10*\log\{10^{(\text{Ant 3 Average Power }/10)} + 10^{(\text{Ant 2 Average Power }/10)}\}$

A.4 Power Spectral Density Test Result

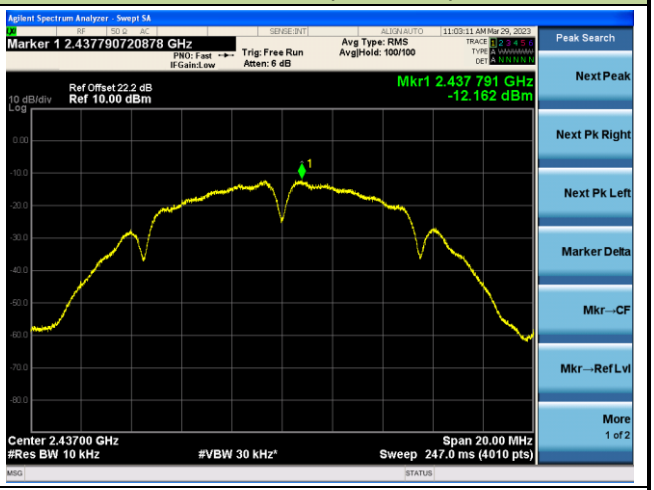
Test Site	NS-TR2	Test Engineer	Summer Tang
Test Date	2023-03-28~2023-03-29	Test Mode	MIMO Mode

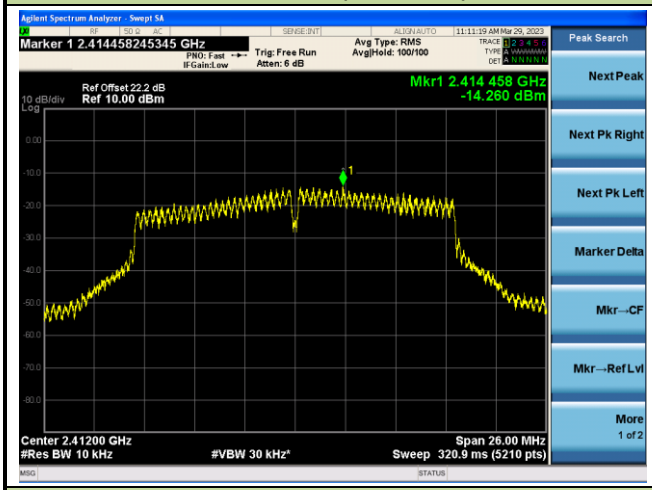
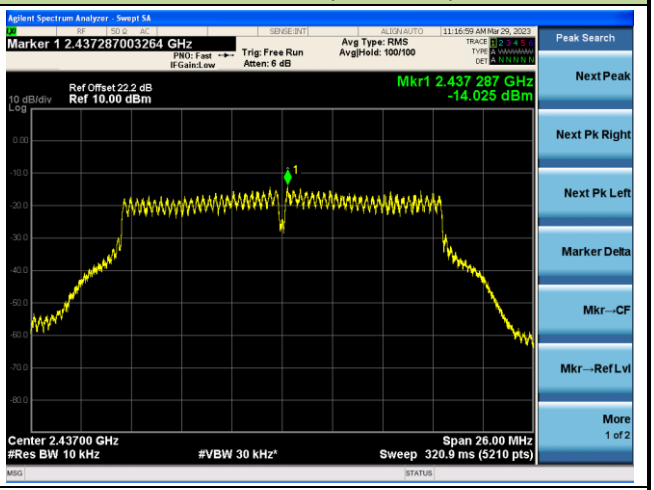
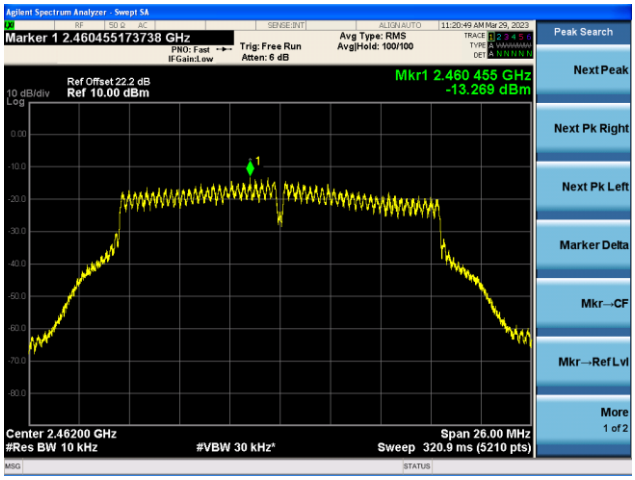
Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	PSD (dBm/10kHz)		Total PSD (dBm/10kHz)	Limit (dBm / 3kHz)	Result
				Ant 3	Ant 2			
802.11b	1Mbps	01	2412	-12.566	-11.819	-9.17	≤ 6.19	Pass
802.11b	1Mbps	06	2437	-12.162	-12.103	-9.12	≤ 6.19	Pass
802.11b	1Mbps	11	2462	-11.879	-11.597	-8.73	≤ 6.19	Pass
802.11g	6Mbps	01	2412	-14.260	-12.811	-10.02	≤ 6.19	Pass
802.11g	6Mbps	06	2437	-14.025	-13.808	-10.46	≤ 6.19	Pass
802.11g	6Mbps	11	2462	-13.269	-13.172	-9.77	≤ 6.19	Pass
802.11n-HT20	MCS0	01	2412	-15.248	-14.087	-11.16	≤ 6.19	Pass
802.11n-HT20	MCS0	06	2437	-15.514	-15.554	-12.07	≤ 6.19	Pass
802.11n-HT20	MCS0	11	2462	-14.990	-13.935	-10.96	≤ 6.19	Pass
802.11n-HT40	MCS0	03	2422	-16.195	-16.589	-12.76	≤ 6.19	Pass
802.11n-HT40	MCS0	06	2437	-15.856	-15.694	-12.15	≤ 6.19	Pass
802.11n-HT40	MCS0	09	2452	-17.474	-17.775	-13.99	≤ 6.19	Pass
VHT20	MCS0	01	2412	-14.539	-13.387	-10.06	≤ 6.19	Pass
VHT20	MCS0	06	2437	-15.812	-15.362	-11.72	≤ 6.19	Pass
VHT20	MCS0	11	2462	-15.591	-14.123	-10.94	≤ 6.19	Pass
VHT40	MCS0	03	2422	-15.963	-15.833	-11.82	≤ 6.19	Pass
VHT40	MCS0	06	2437	-15.615	-14.578	-10.99	≤ 6.19	Pass
VHT40	MCS0	09	2452	-17.786	-17.222	-13.42	≤ 6.19	Pass
802.11ax-HE20	MCS0	01	2412	-15.459	-14.248	-10.75	≤ 6.19	Pass
802.11ax-HE20	MCS0	06	2437	-15.055	-15.396	-11.16	≤ 6.19	Pass
802.11ax-HE20	MCS0	11	2462	-15.380	-14.158	-10.66	≤ 6.19	Pass
802.11ax-HE40	MCS0	03	2422	-16.460	-17.166	-12.56	≤ 6.19	Pass
802.11ax-HE40	MCS0	06	2437	-17.084	-16.327	-12.45	≤ 6.19	Pass
802.11ax-HE40	MCS0	09	2452	-18.158	-17.509	-13.58	≤ 6.19	Pass

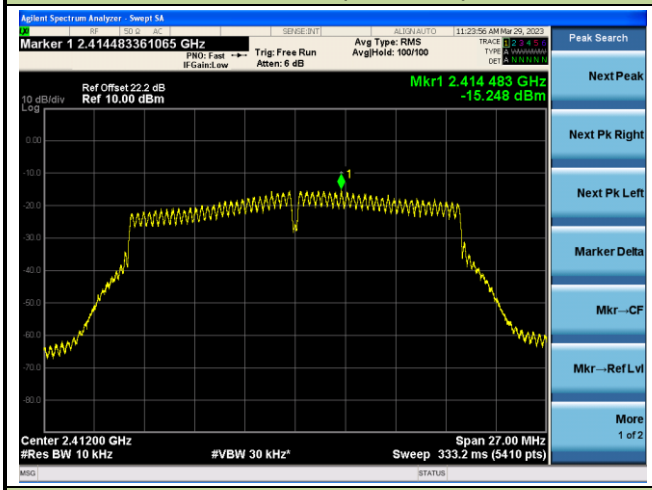
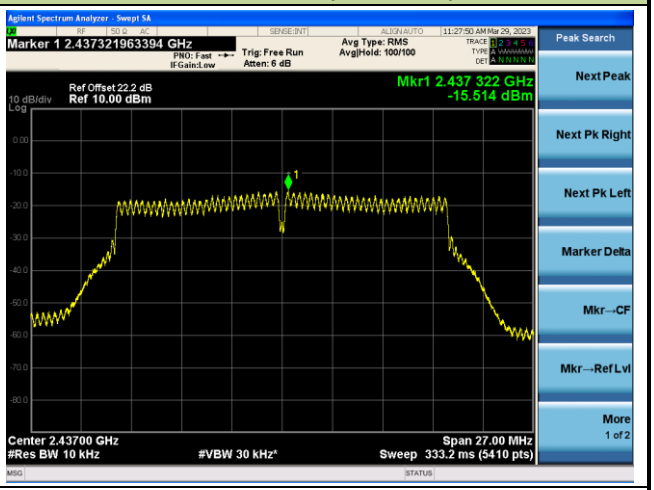
Note 1: When EUT Duty Cycle < 98%, Total AVGPSD = 10*log {$10^{(\text{Ant 3 AVGPSD}/10)}$ + $10^{(\text{Ant 2 AVGPSD}/10)}$} + 10*log (1/Duty Cycle).

When EUT Duty Cycle ≥ 98%, Total AVGPSD = 10*log {$10^{(\text{Ant 3 AVGPSD}/10)}$ + $10^{(\text{Ant 2 AVGPSD}/10)}$}.

Note 2: Limit = 8 – (7.81 – 6) = 6.19.

802.11b - PSD - Ant 3	
Channel 01 (2412MHz)	Channel 06 (2437MHz)
	
Channel 11 (2462MHz)	

802.11g - PSD - Ant 3	
Channel 01 (2412MHz)	Channel 06 (2437MHz)
	
Channel 11 (2462MHz)	
	

802.11n-HT20 - PSD - Ant 3	
Channel 01 (2412MHz)	Channel 06 (2437MHz)
	
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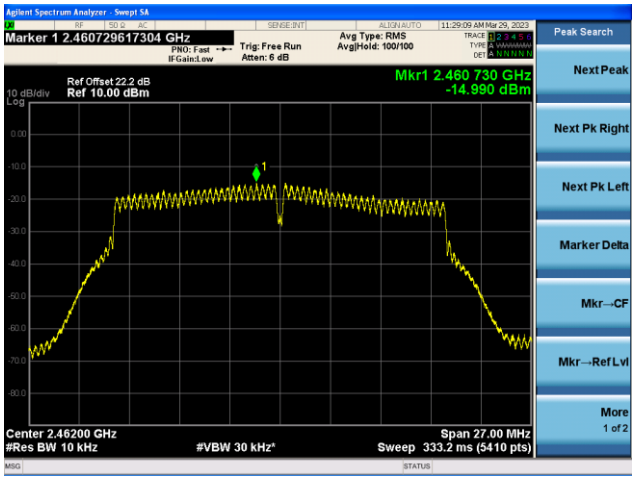
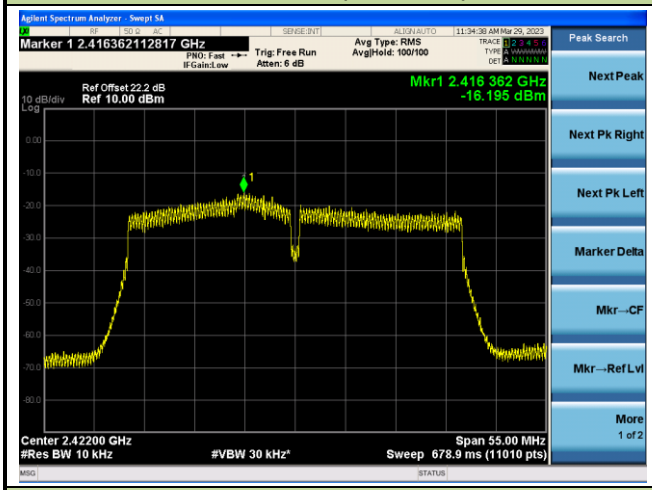
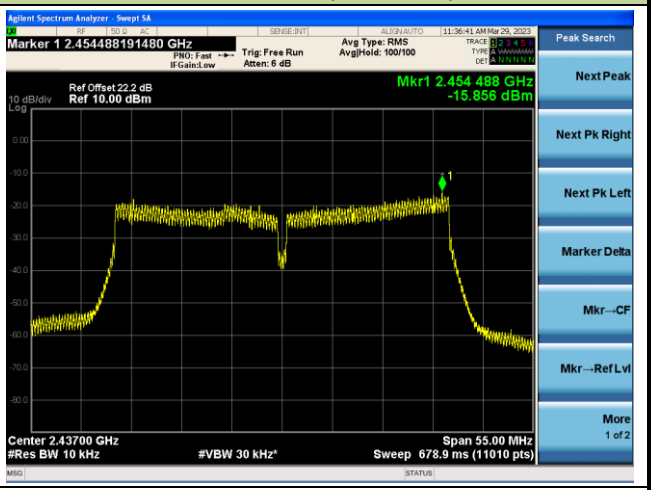
	

802.11n-HT40 - PSD - Ant 3	
Channel 03 (2422MHz)	Channel 06 (2437MHz)
	
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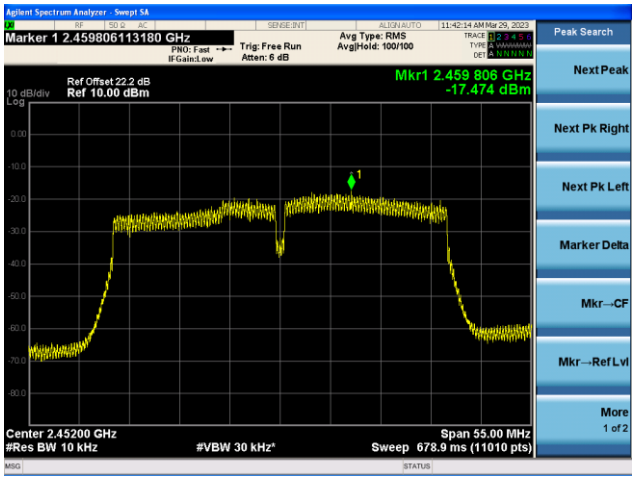
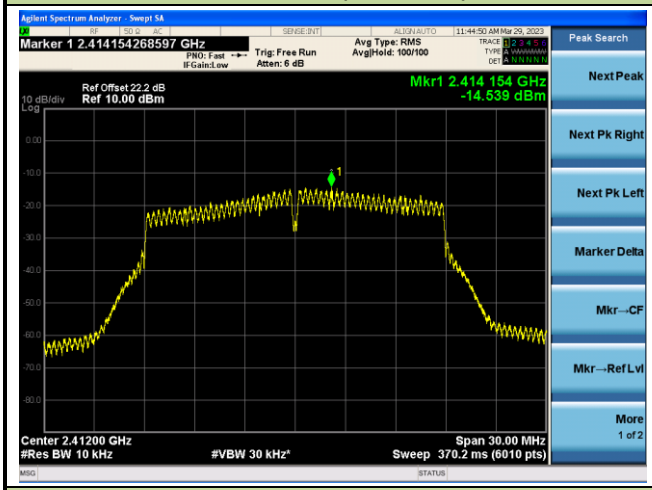
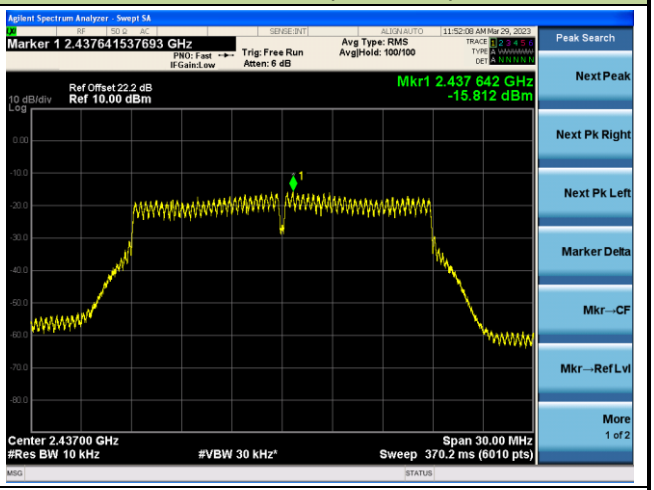
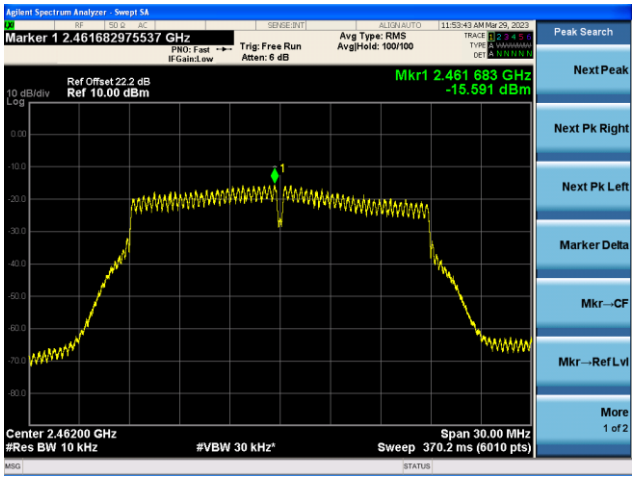
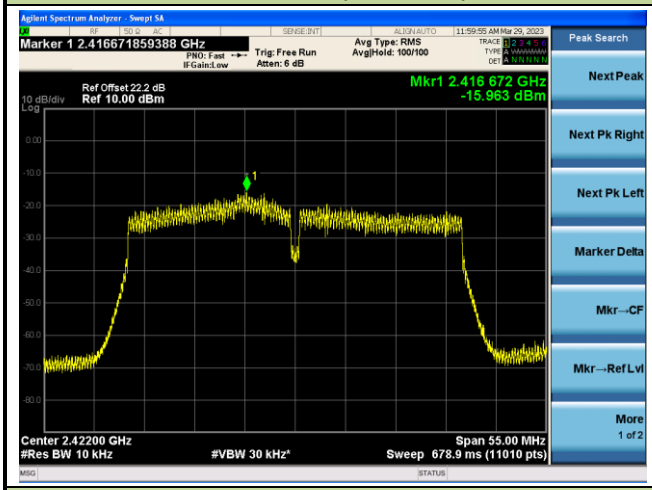
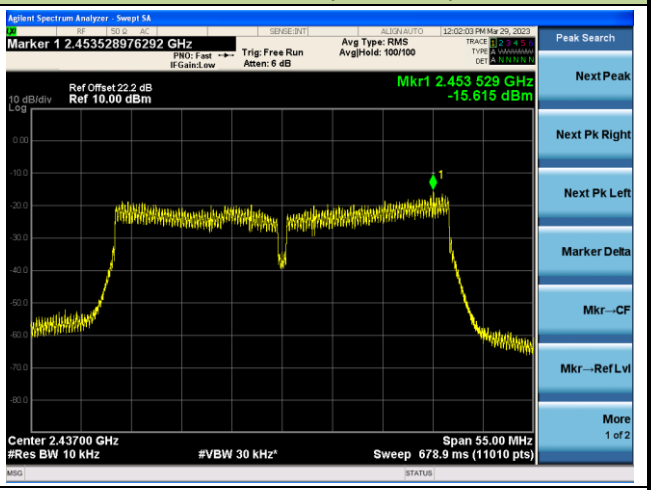
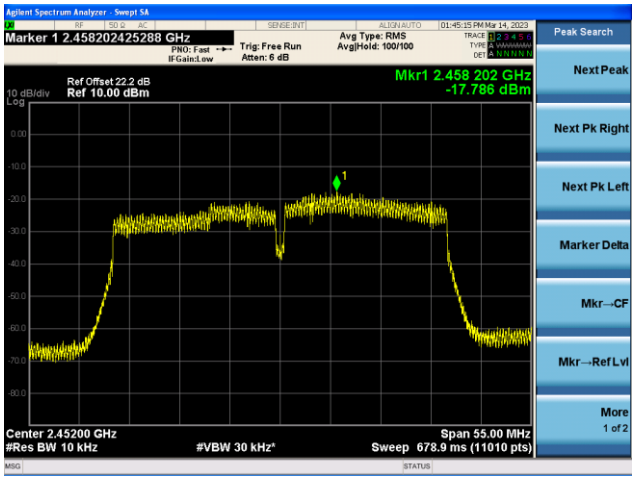
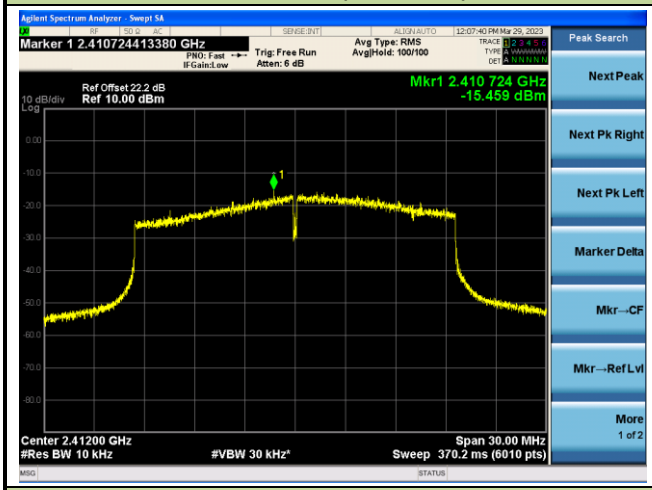
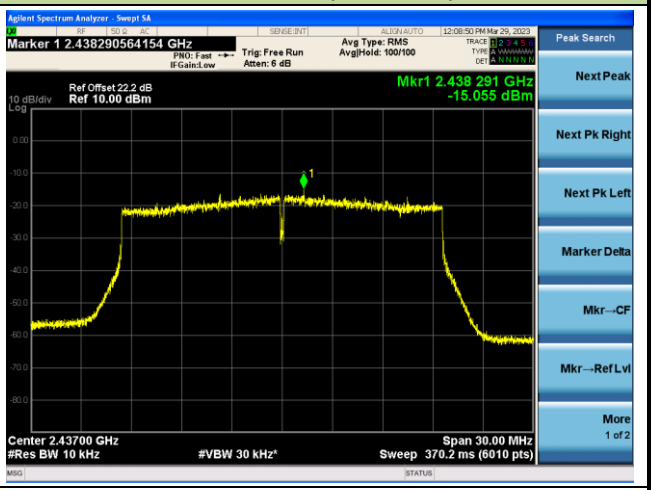
	

VHT20 - PSD - Ant 3	
Channel 01 (2412MHz)	Channel 06 (2437MHz)
	
Channel 11 (2462MHz)	
	

VHT40 - PSD - Ant 3	
Channel 03 (2422MHz)	Channel 06 (2437MHz)
	
Channel 09 (2452MHz)	
	

802.11ax-HE20 - PSD - Ant 3	
Channel 01 (2412MHz)	Channel 06 (2437MHz)
	
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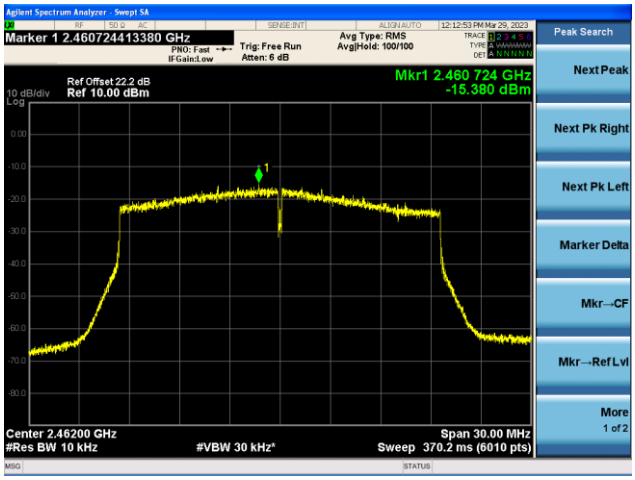
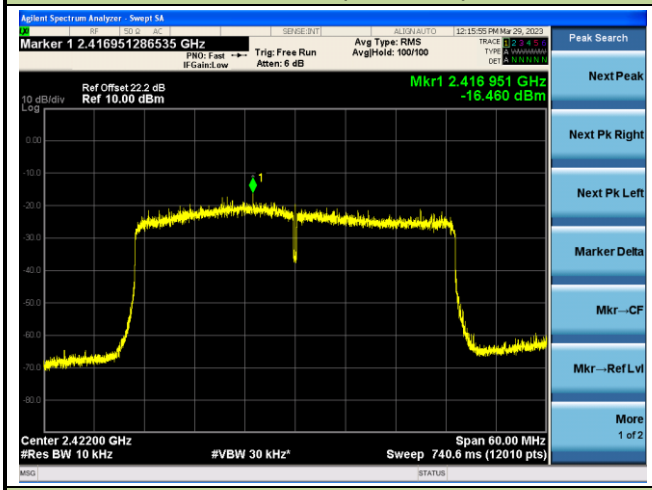
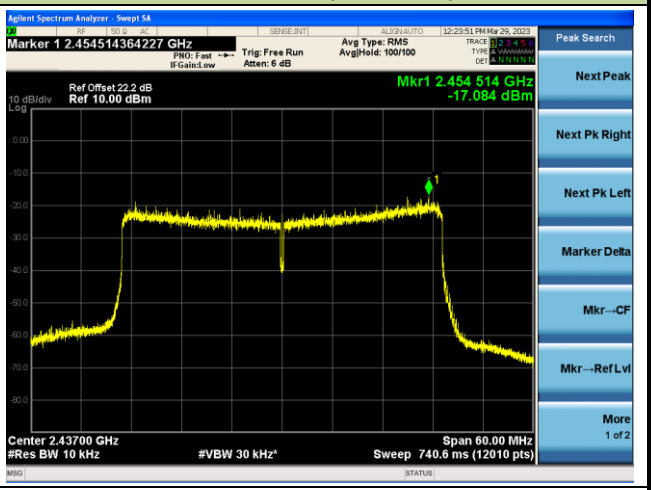
	

802.11ax-HE40 - PSD - Ant 3	
Channel 03 (2422MHz)	Channel 06 (2437MHz)
	
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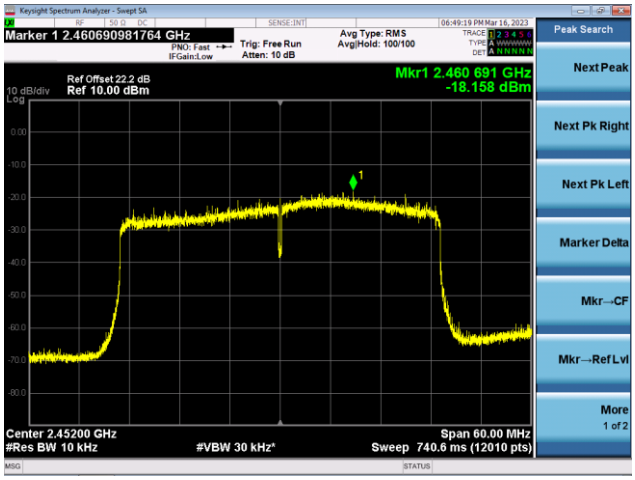
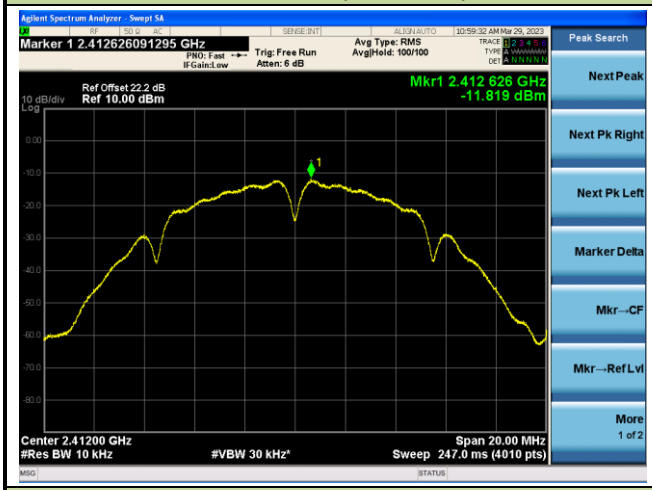
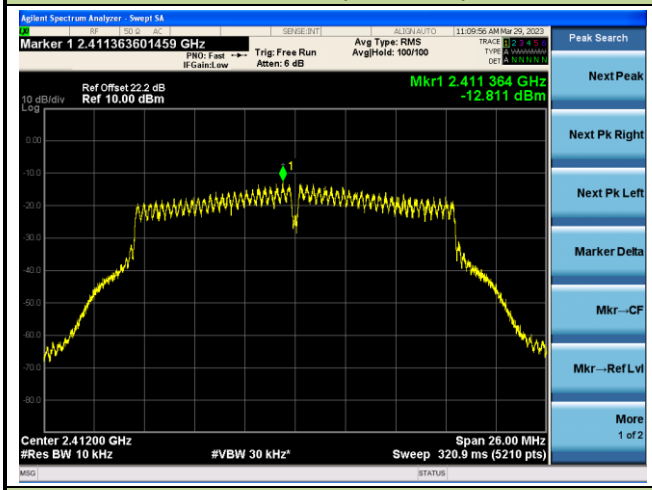
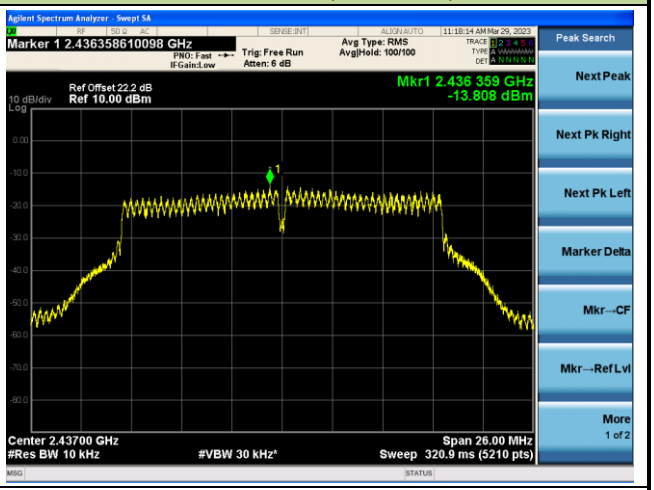
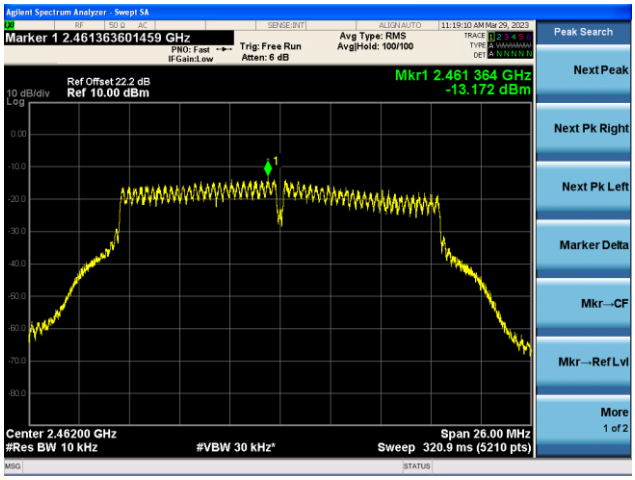
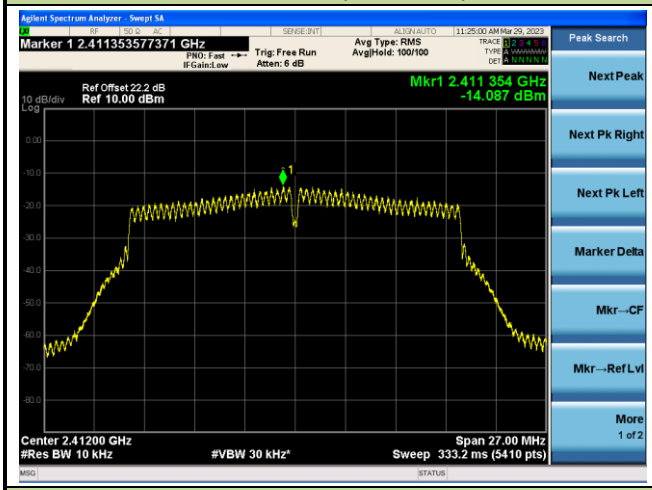
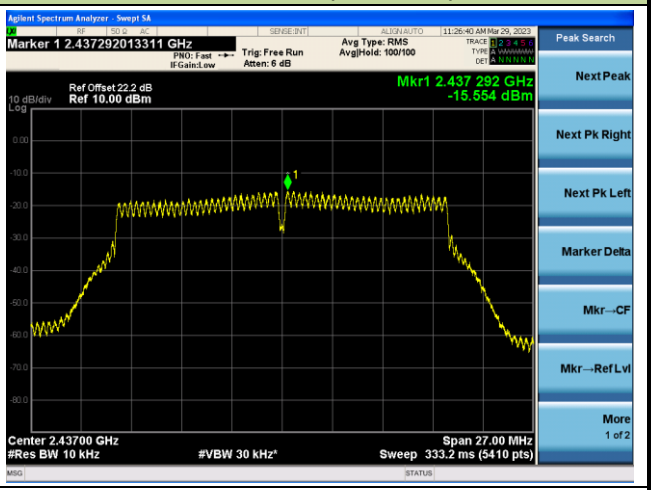
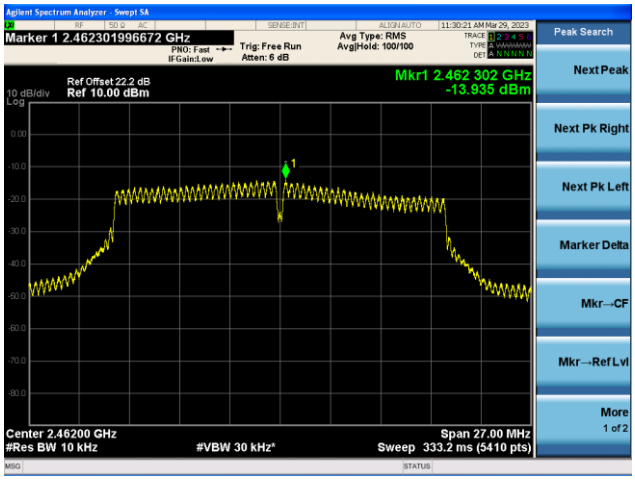
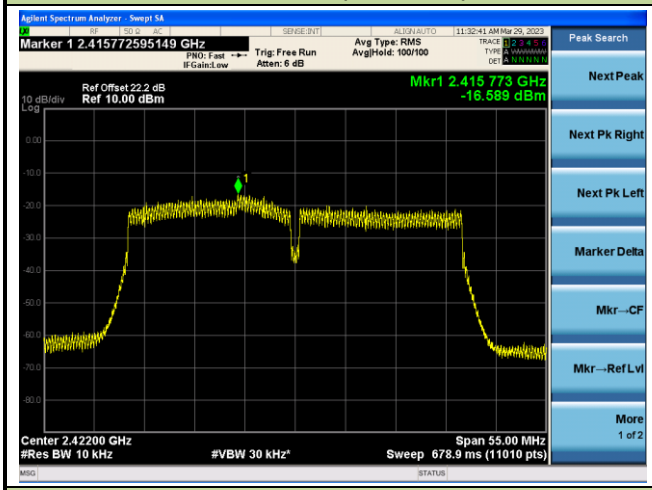
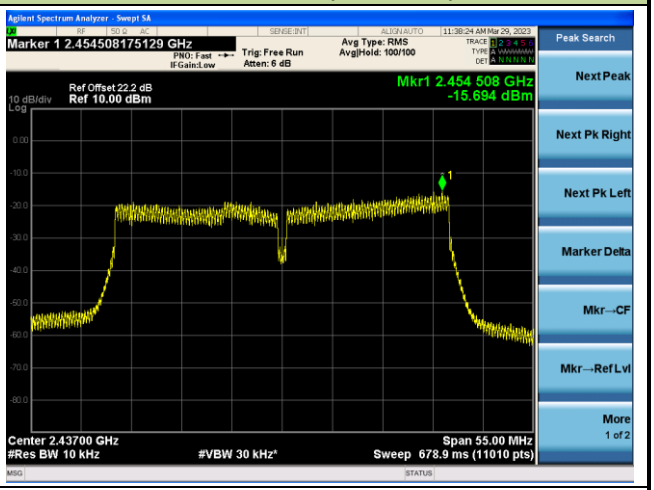
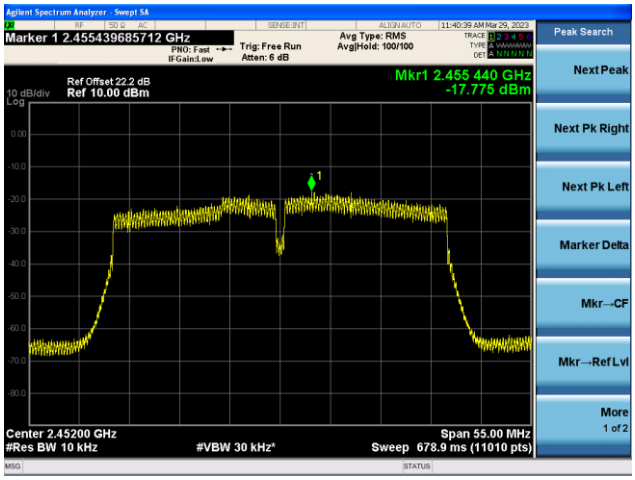
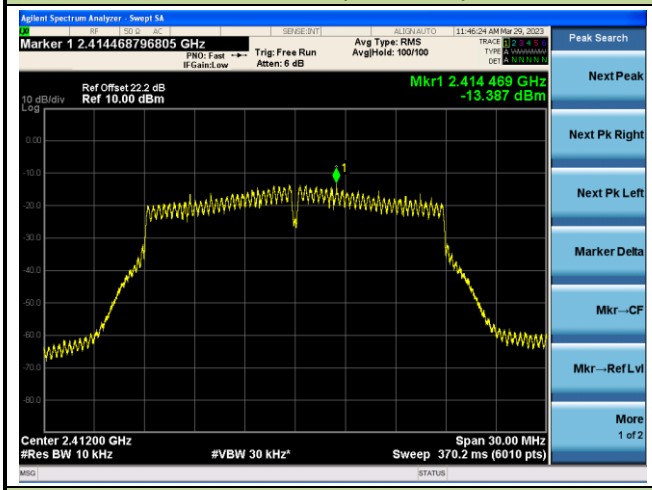
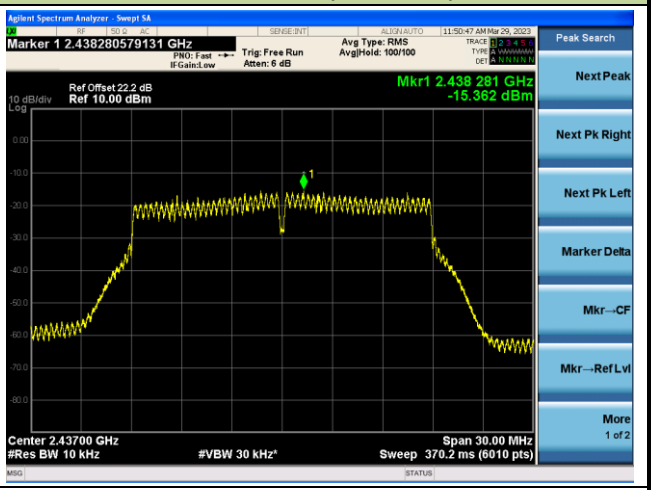
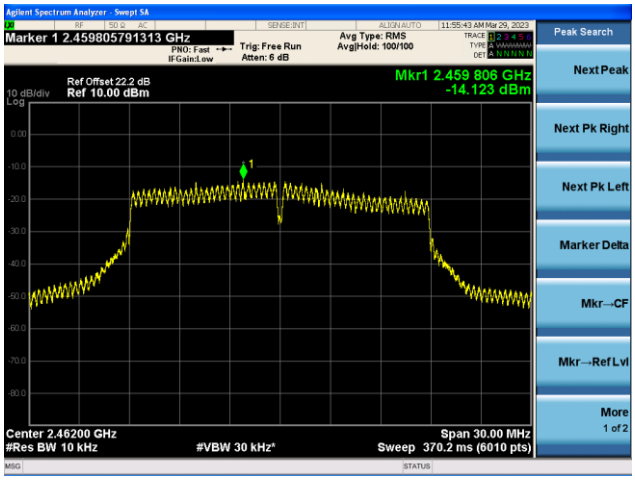
	

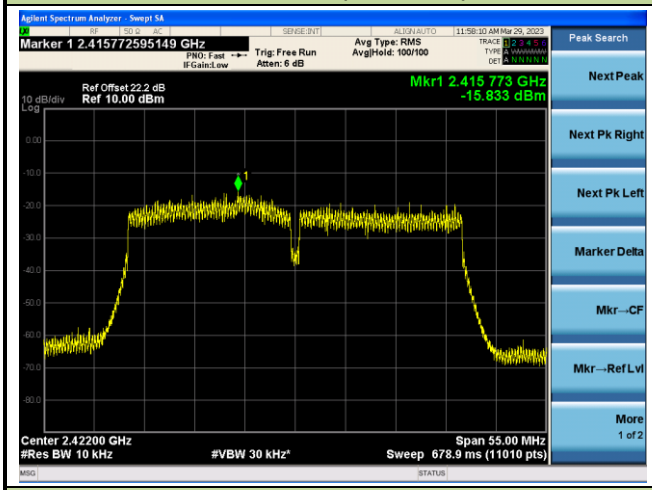
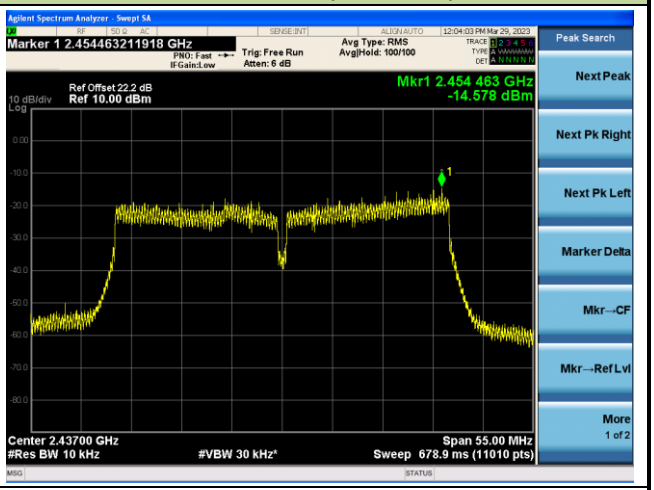
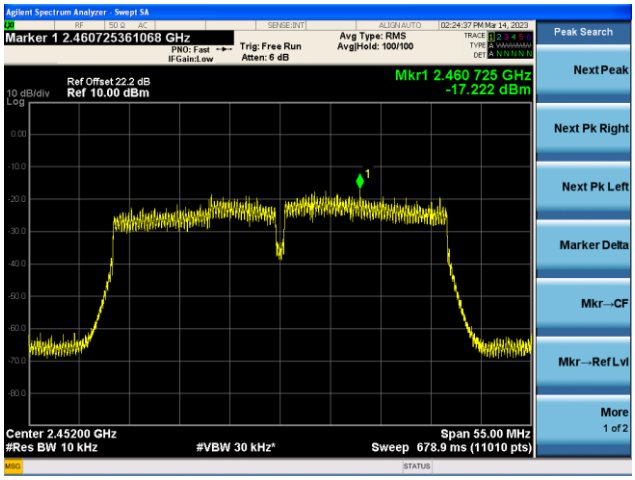
802.11b - PSD - Ant 2	
Channel 01 (2412MHz)	Channel 06 (2437MHz)
	
Channel 11 (2462MHz)	

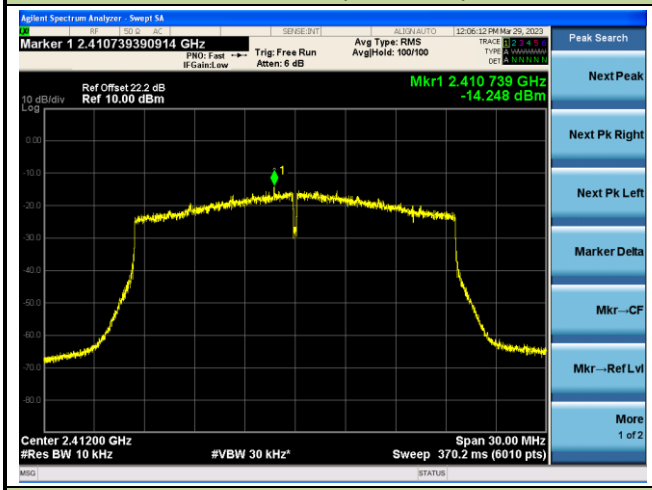
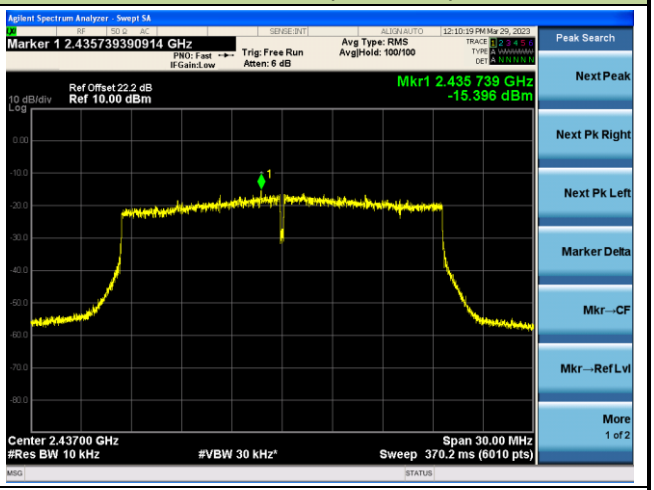
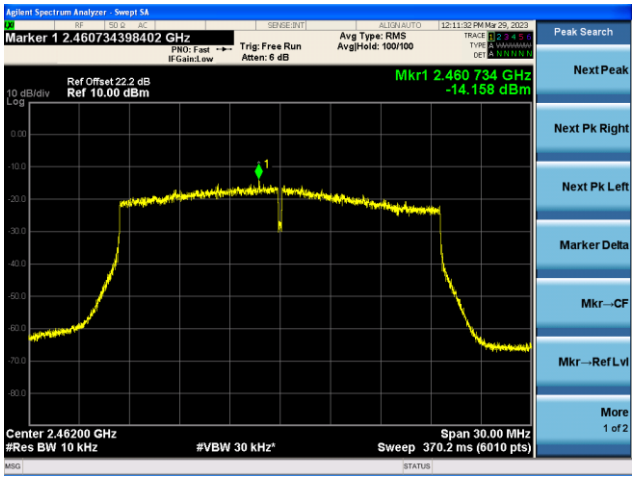
802.11g - PSD - Ant 2	
Channel 01 (2412MHz)	Channel 06 (2437MHz)
	
Channel 11 (2462MHz)	
	

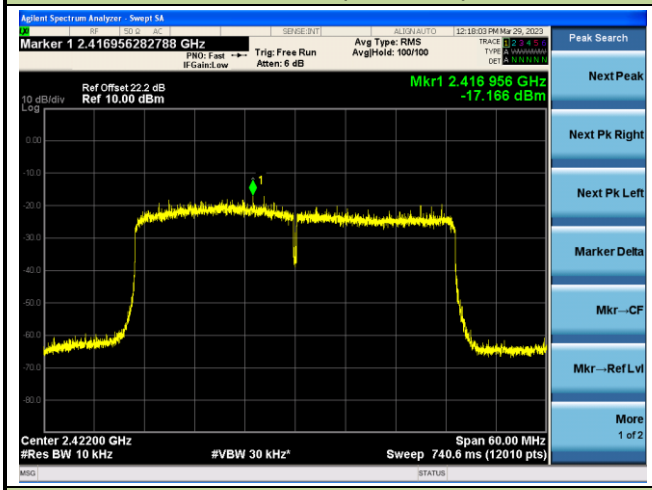
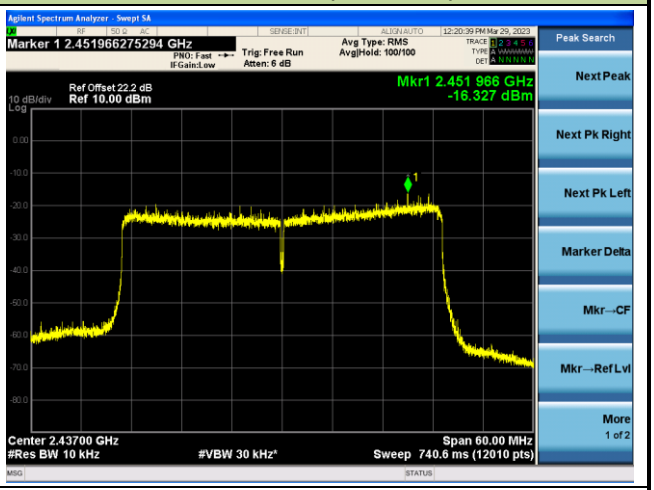
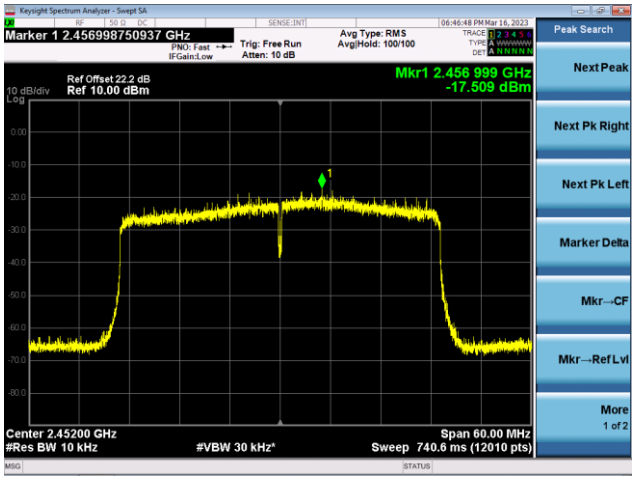
802.11n-HT20 - PSD - Ant 2	
Channel 01 (2412MHz)	Channel 06 (2437MHz)
	
Channel 11 (2462MHz)	
	

802.11n-HT40 - PSD - Ant 2	
Channel 03 (2422MHz)	Channel 06 (2437MHz)
	
Channel 09 (2452MHz)	
	

VHT20 - PSD - Ant 2	
Channel 01 (2412MHz)	Channel 06 (2437MHz)
	
Channel 11 (2462MHz)	
	

VHT40 - PSD - Ant 2	
Channel 03 (2422MHz)	Channel 06 (2437MHz)
	
Channel 09 (2452MHz)	
	

802.11ax-HE20 - PSD - Ant 2	
Channel 01 (2412MHz)	Channel 06 (2437MHz)
	
Channel 11 (2462MHz)	
	

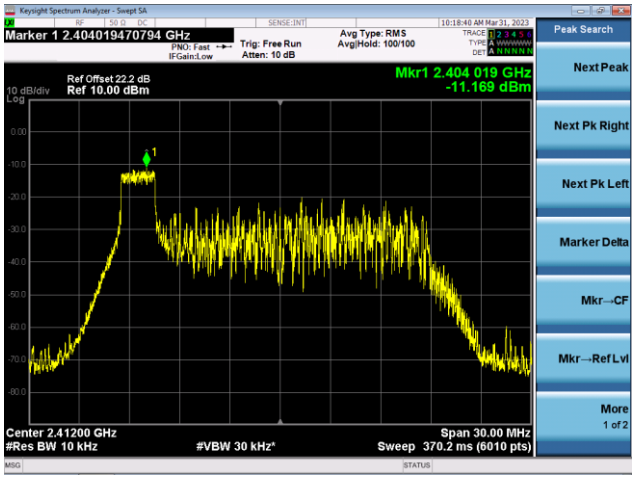
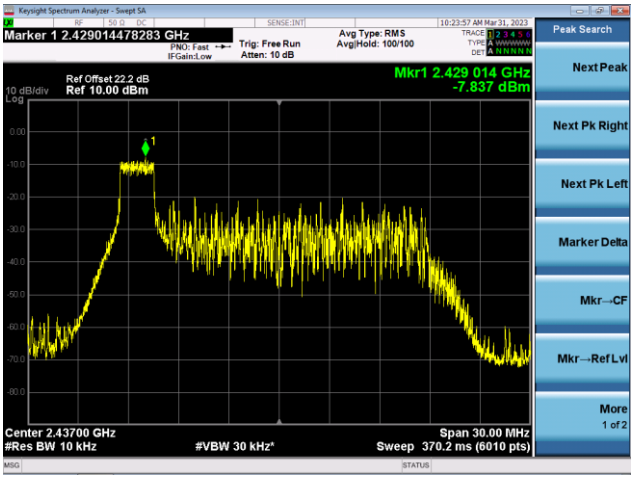
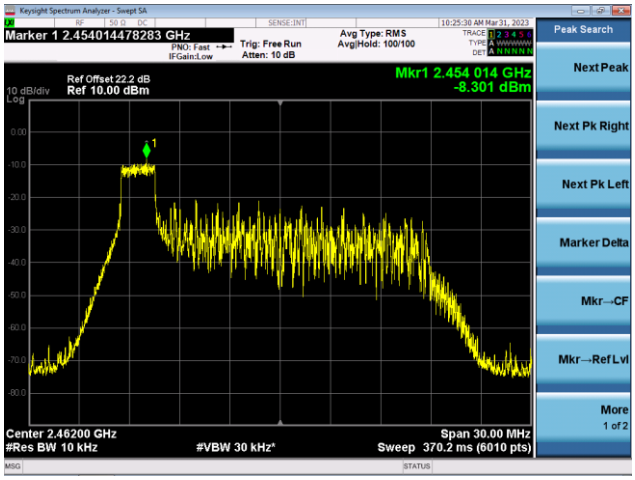
802.11ax-HE40 - PSD - Ant 2	
Channel 03 (2422MHz)	Channel 06 (2437MHz)
	
Channel 09 (2452MHz)	
	

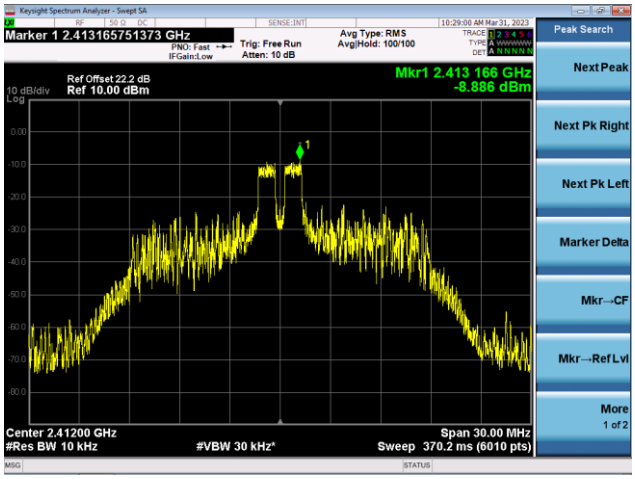
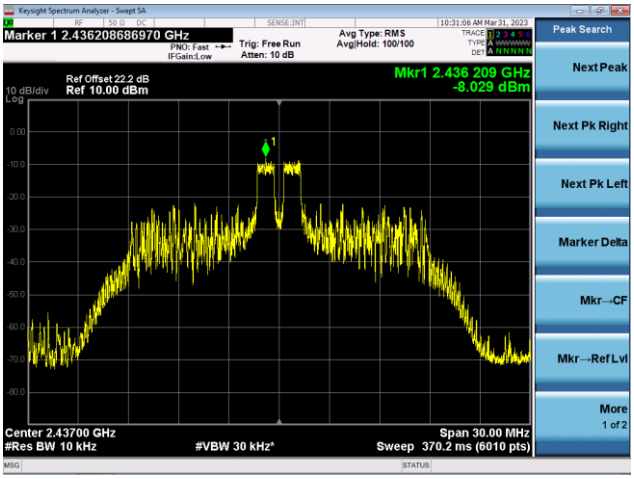
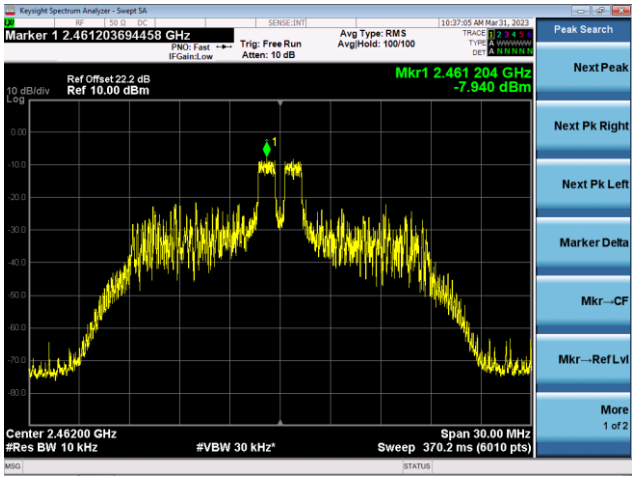
Test Site	NS-TR2	Test Engineer	Summer Tang
Test Date	2023-03-31	Test Mode	MIMO Mode – Partial RU

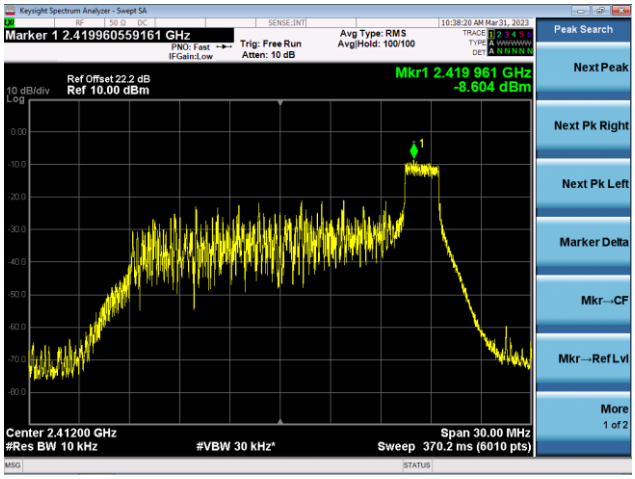
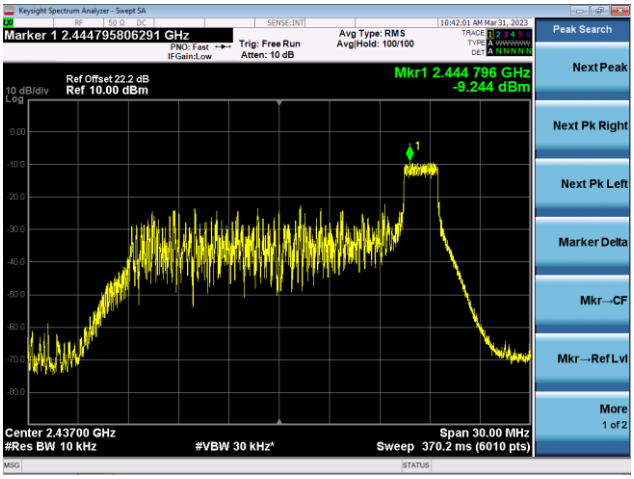
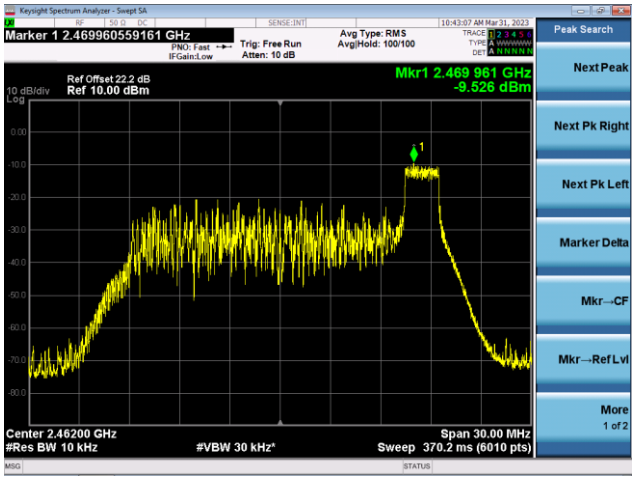
Test Mode	RU Size	RU Index	Channel No.	Freq. (MHz)	PSD (dBm/10kHz)		Total PSD (dBm/10kHz)	Limit (dBm / 3kHz)	Result
					Ant 3	Ant 2			
11ax-HE20	26 Tone	RU 0	01	2412	-11.169	-9.051	-5.55	≤ 6.19	Pass
			06	2437	-7.837	-8.489	-3.72	≤ 6.19	Pass
			11	2462	-8.301	-6.686	-2.99	≤ 6.19	Pass
		RU 4	01	2412	-8.886	-7.609	-3.77	≤ 6.19	Pass
			06	2437	-8.029	-8.037	-3.60	≤ 6.19	Pass
			11	2462	-7.940	-7.426	-3.24	≤ 6.19	Pass
		RU 8	01	2412	-8.604	-8.842	-4.29	≤ 6.19	Pass
			06	2437	-9.244	-8.134	-4.22	≤ 6.19	Pass
			11	2462	-9.526	-8.303	-4.44	≤ 6.19	Pass
	242 Tone	RU 61	01	2412	-15.308	-13.170	-8.65	≤ 6.19	Pass
			06	2437	-15.318	-14.924	-9.66	≤ 6.19	Pass
			11	2462	-14.711	-13.191	-8.43	≤ 6.19	Pass
11ax-HE40	26 Tone	RU 0	03	2422	-10.228	-8.667	-4.93	≤ 6.19	Pass
			06	2437	-8.412	-8.168	-3.84	≤ 6.19	Pass
			09	2452	-10.756	-9.703	-5.75	≤ 6.19	Pass
		RU 8	03	2422	-7.916	-8.189	-3.61	≤ 6.19	Pass
			06	2437	-8.996	-8.613	-4.36	≤ 6.19	Pass
			09	2452	-8.183	-7.846	-3.57	≤ 6.19	Pass
		RU 17	03	2422	-9.064	-8.160	-4.14	≤ 6.19	Pass
			06	2437	-7.444	-8.062	-3.30	≤ 6.19	Pass
			09	2452	-9.262	-9.120	-4.75	≤ 6.19	Pass
	484 Tone	RU 65	03	2422	-15.863	-15.561	-10.23	≤ 6.19	Pass
			06	2437	-15.467	-15.873	-10.19	≤ 6.19	Pass
			09	2452	-17.629	-16.572	-11.59	≤ 6.19	Pass

Note 1: When EUT Duty Cycle < 98%, Total AVGPSD = 10*log {$10^{(\text{Ant 3 AVGPSD}/10)}$ + $10^{(\text{Ant 2 AVGPSD}/10)}$} + 10*log (1/Duty Cycle).

Note 2: Limit = 8 – (7.81 – 6) = 6.19.

802.11ax-HE20 - PSD - Ant 3 - 26 Tone RU 0	
Channel 01 (2412MHz)	Channel 06 (2437MHz)
	
Channel 11 (2462MHz)	
	

802.11ax-HE20 - PSD - Ant 3 - 26 Tone RU 4	
Channel 01 (2412MHz)	Channel 06 (2437MHz)
	
Channel 11 (2462MHz)	
	

802.11ax-HE20 - PSD - Ant 3 - 26 Tone RU 8	
Channel 01 (2412MHz)	Channel 06 (2437MHz)
	
Channel 11 (2462MHz)