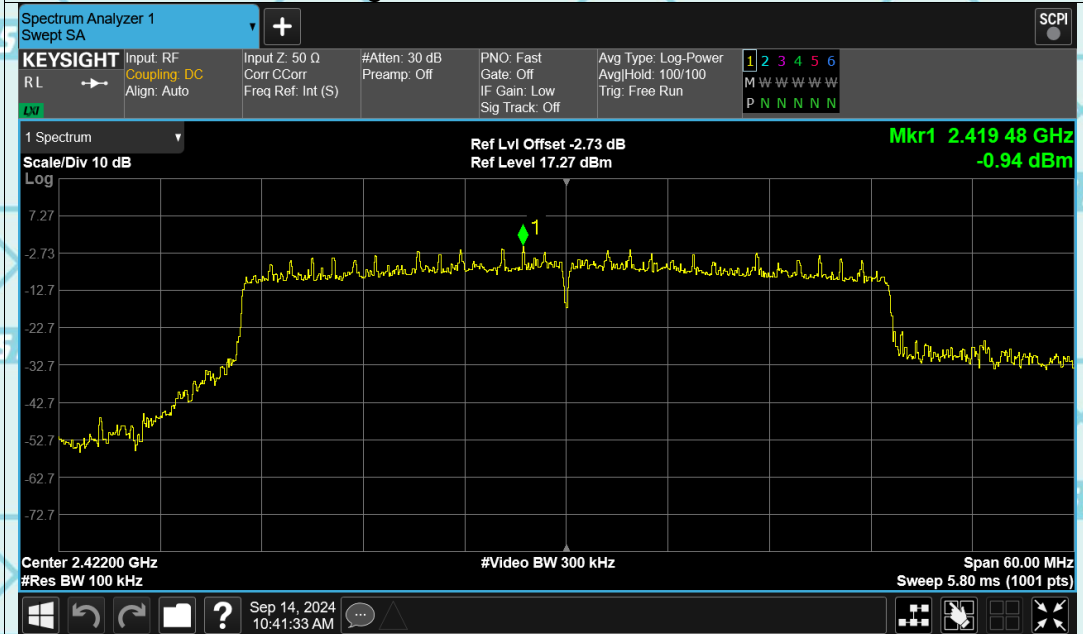
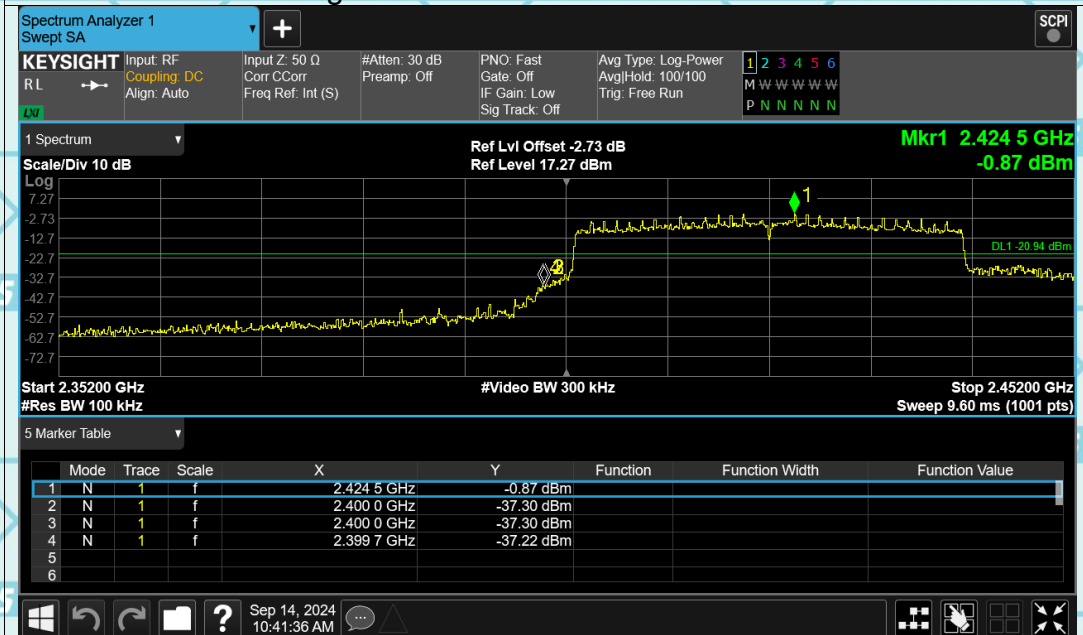


Report No.: WSCT-ANAB-R&E240900045A-Wi-Fi1

Band Edge NVNT ax40 2422MHz Ant1 Ref

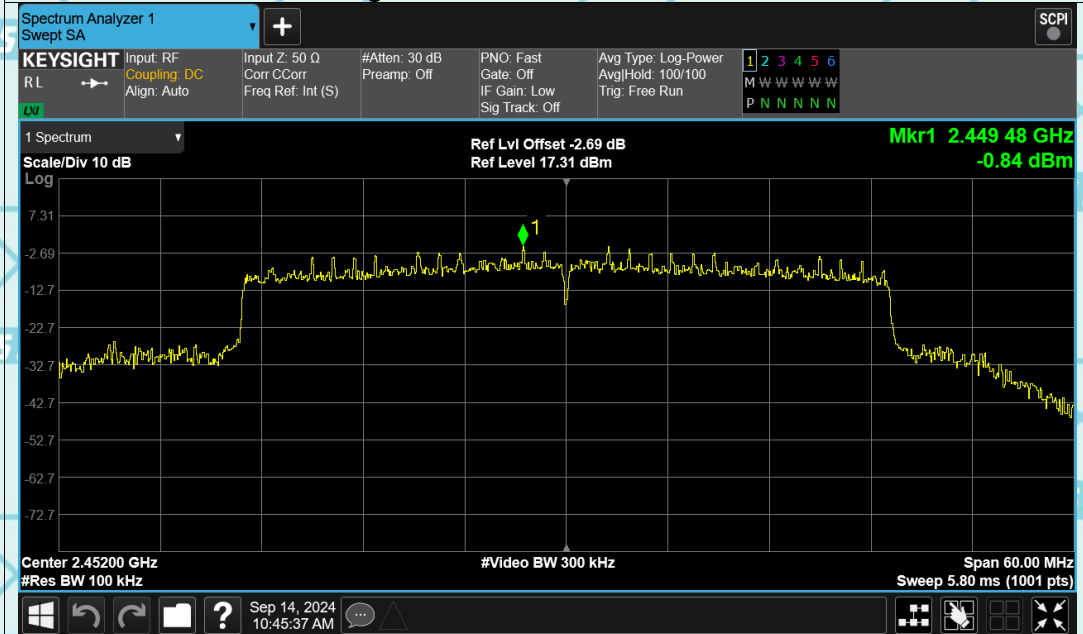


Band Edge NVNT ax40 2422MHz Ant1 Emission

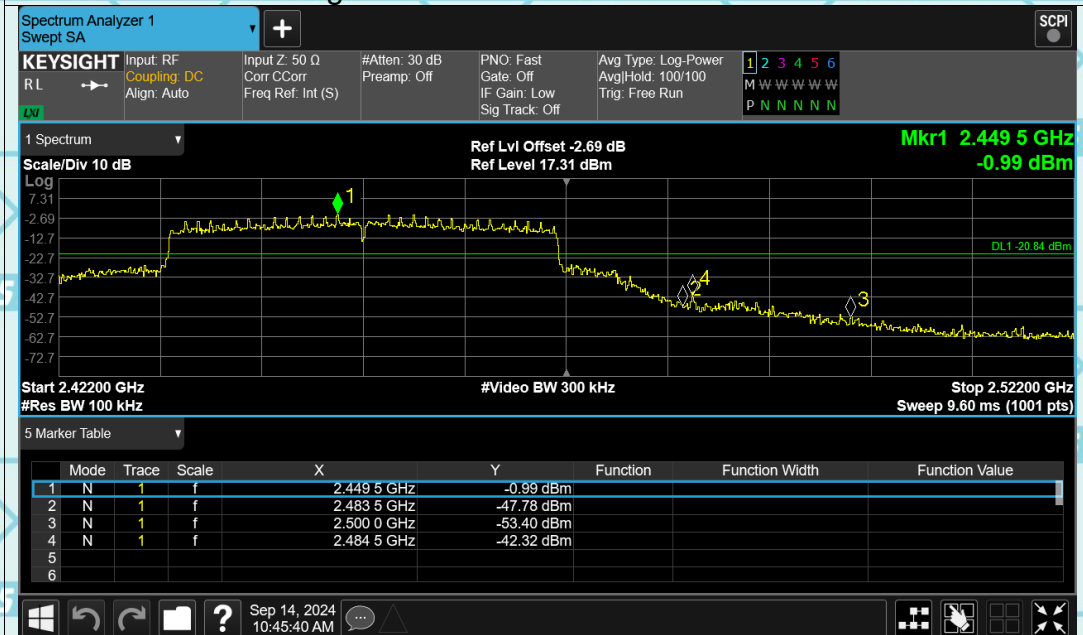


Report No.: WSCT-ANAB-R&E240900045A-Wi-Fi1

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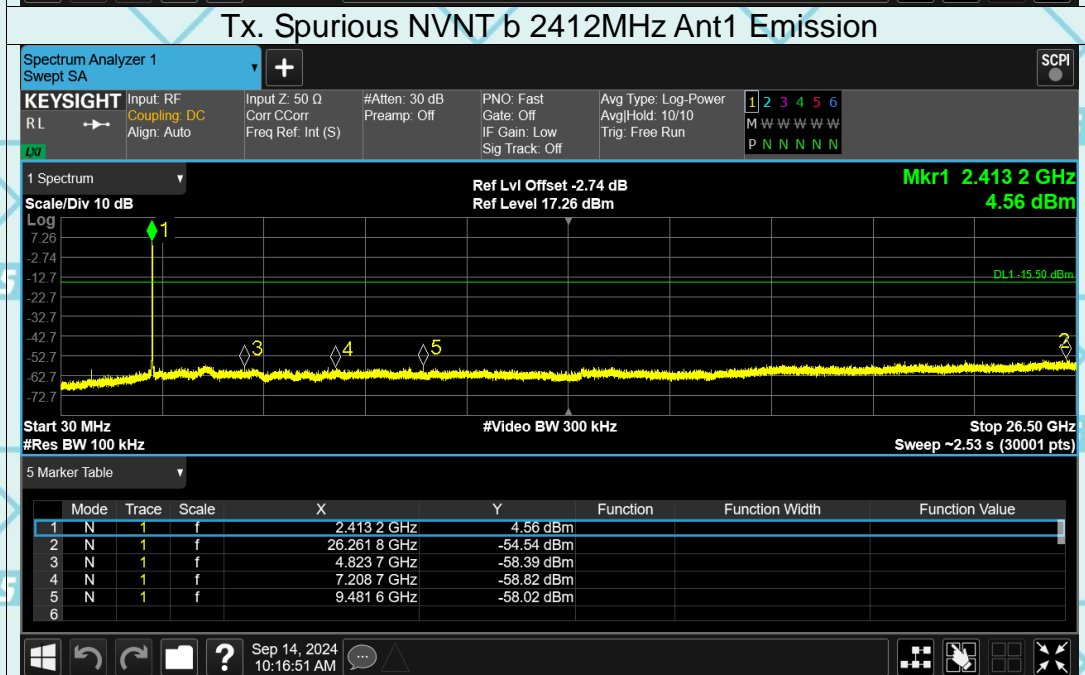
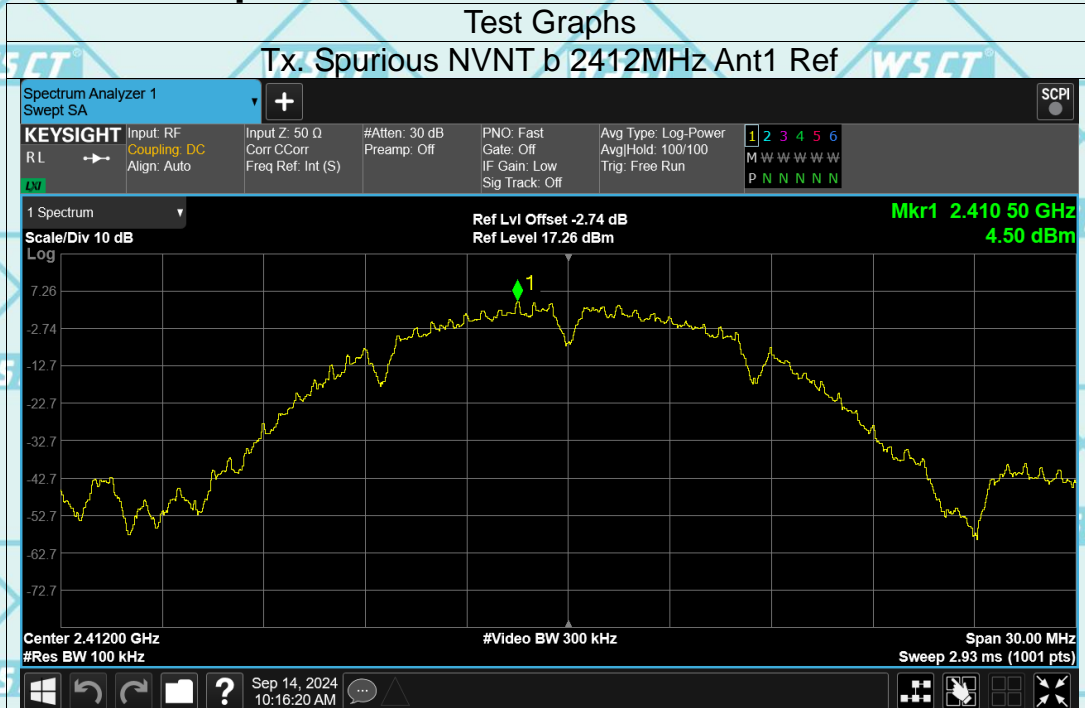


Band Edge NVNT ax40 2452MHz Ant1 Emission



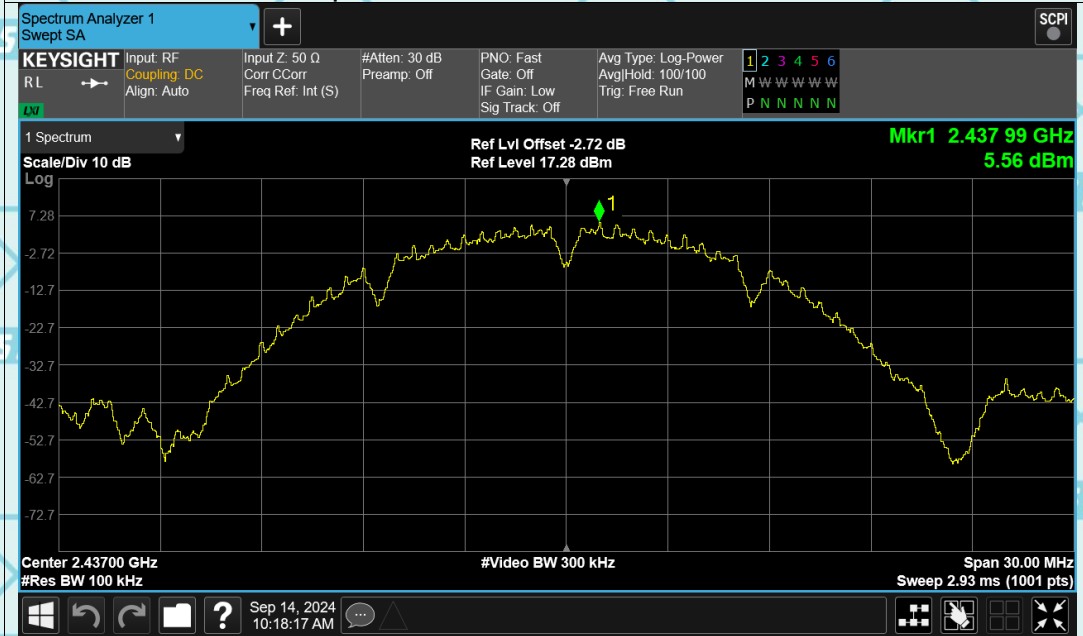
Report No.: WSCT-ANAB-R&E240900045A-Wi-Fi1

Conducted RF Spurious Emission

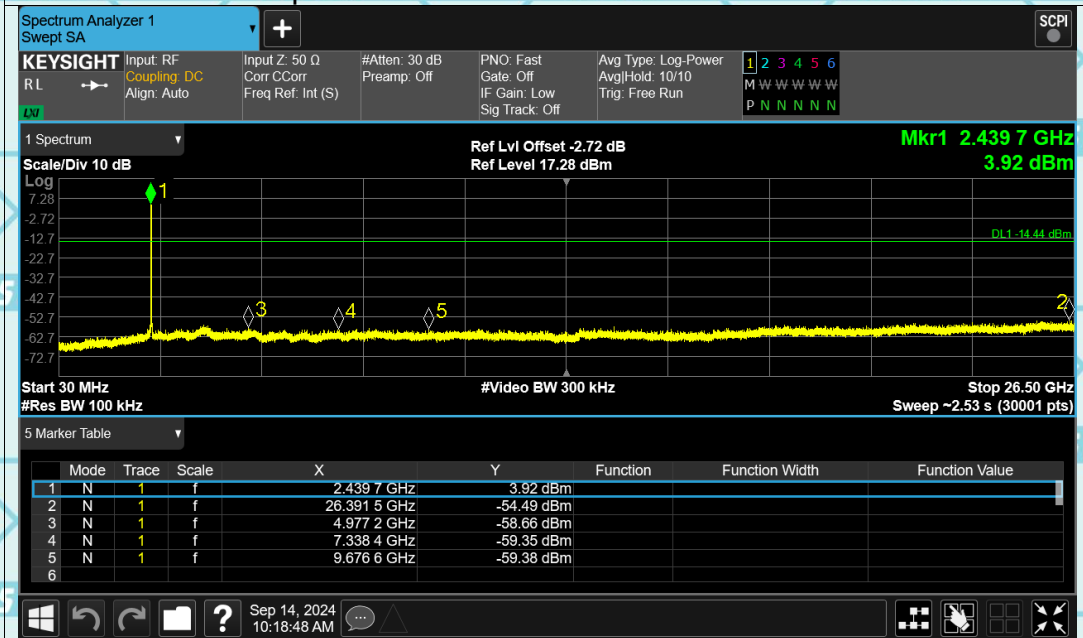


Report No.: WSCT-ANAB-R&E240900045A-Wi-Fi1

Tx. Spurious NVNT b 2437MHz Ant1 Ref

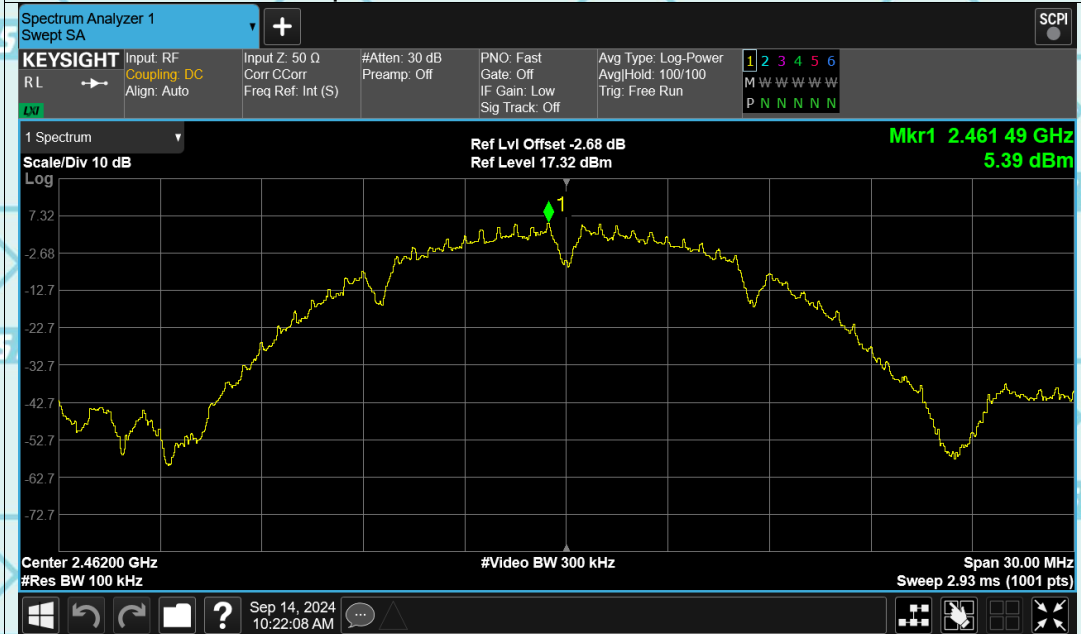


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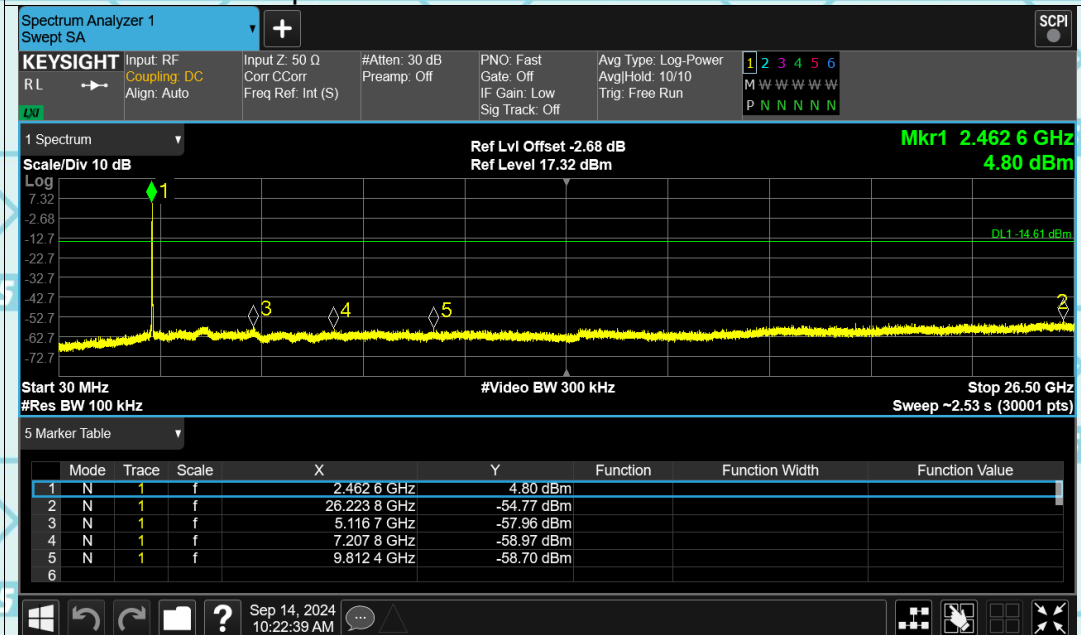


Report No.: WSCT-ANAB-R&E240900045A-Wi-Fi1

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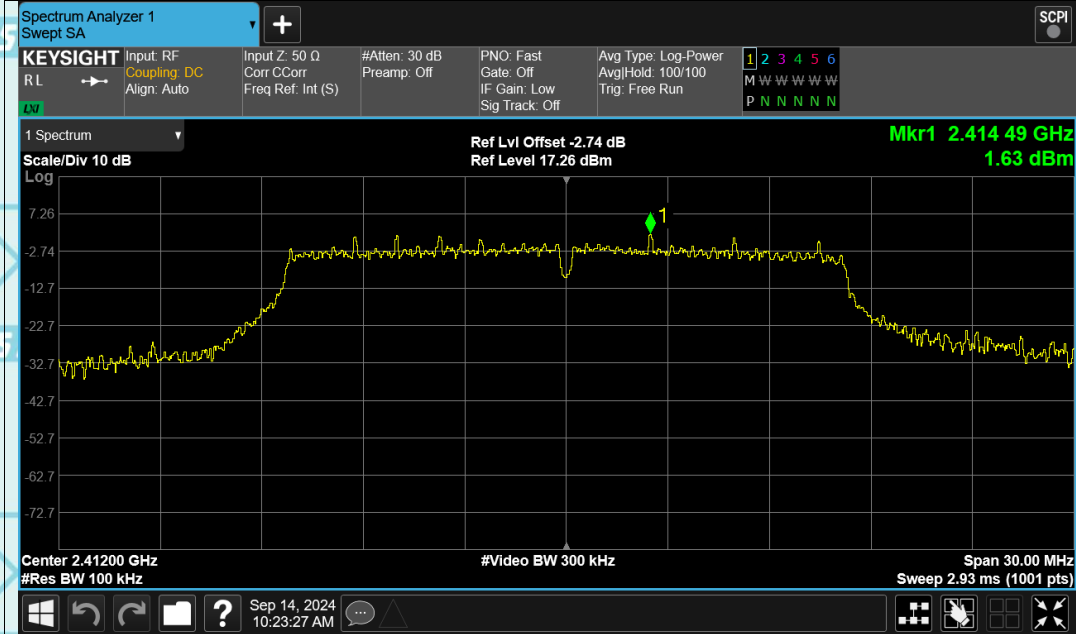


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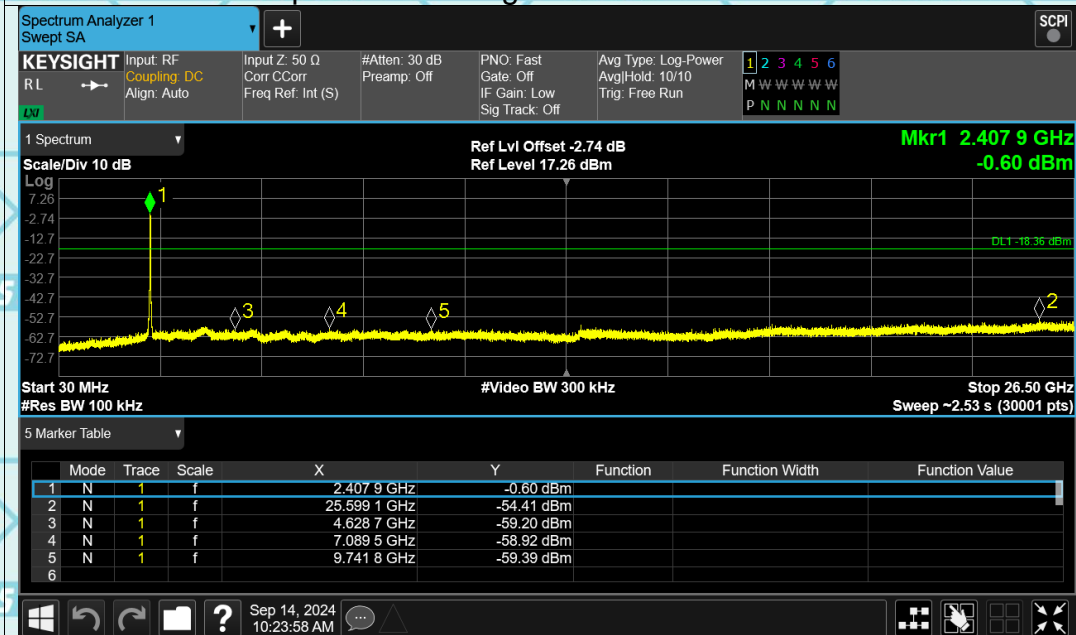


Report No.: WSCT-ANAB-R&E240900045A-Wi-Fi1

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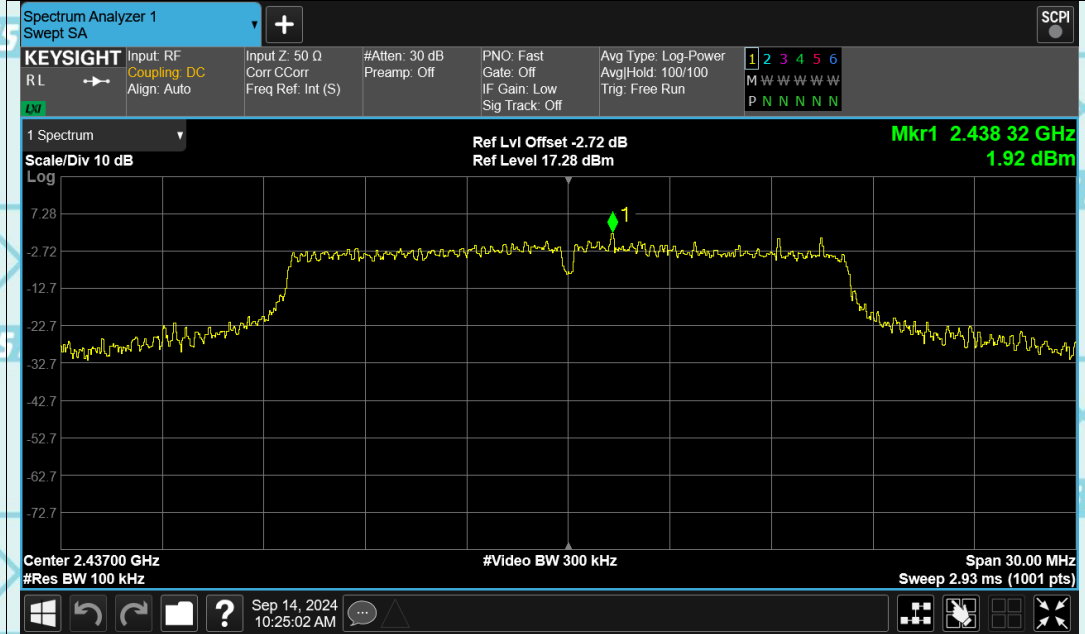


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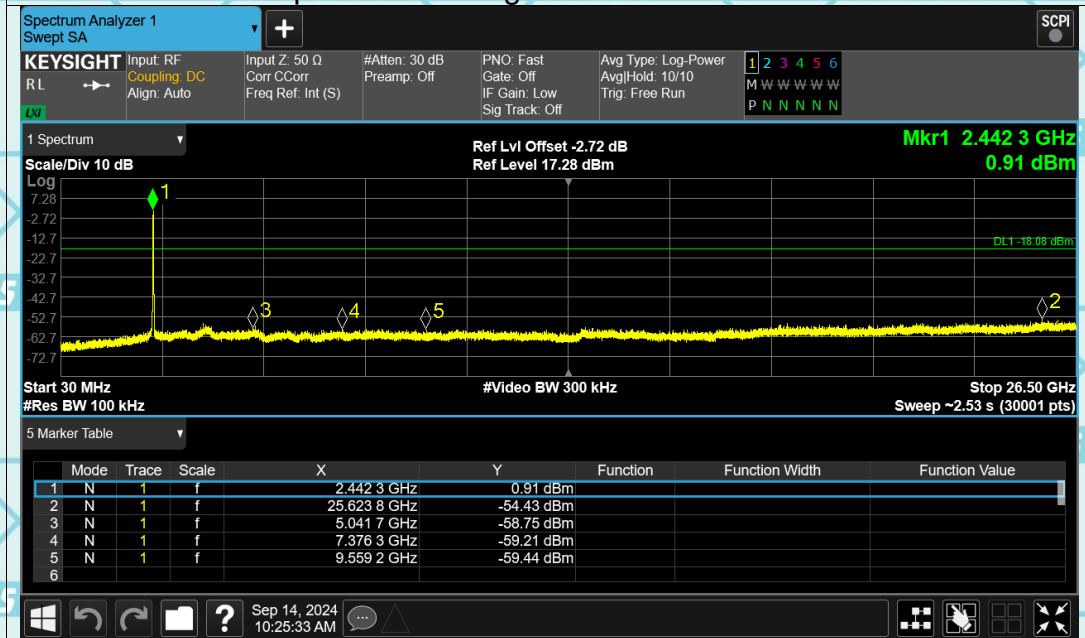


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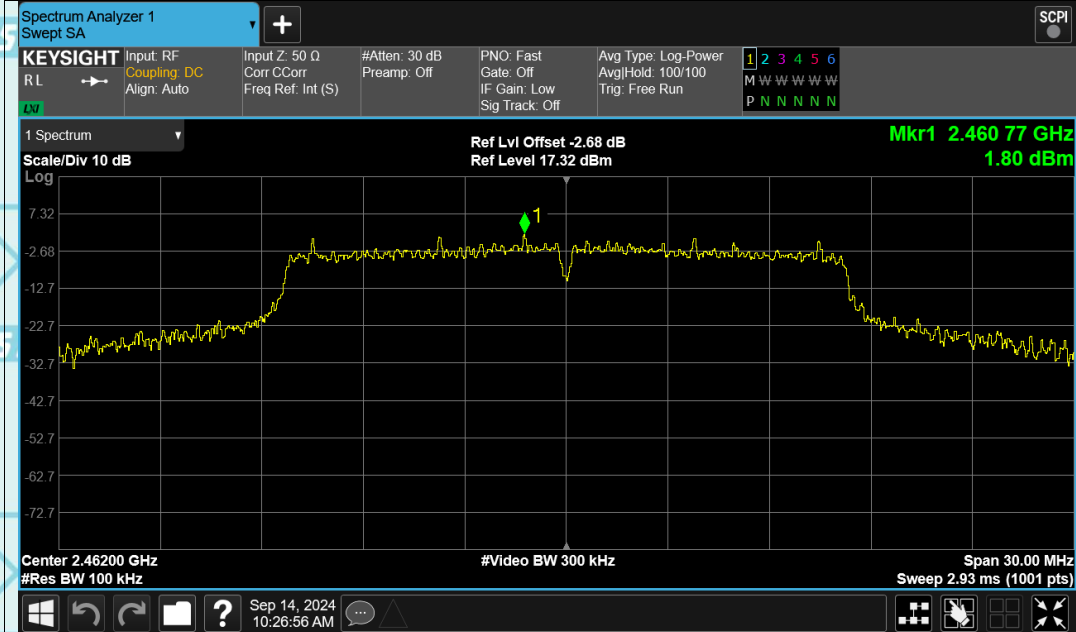


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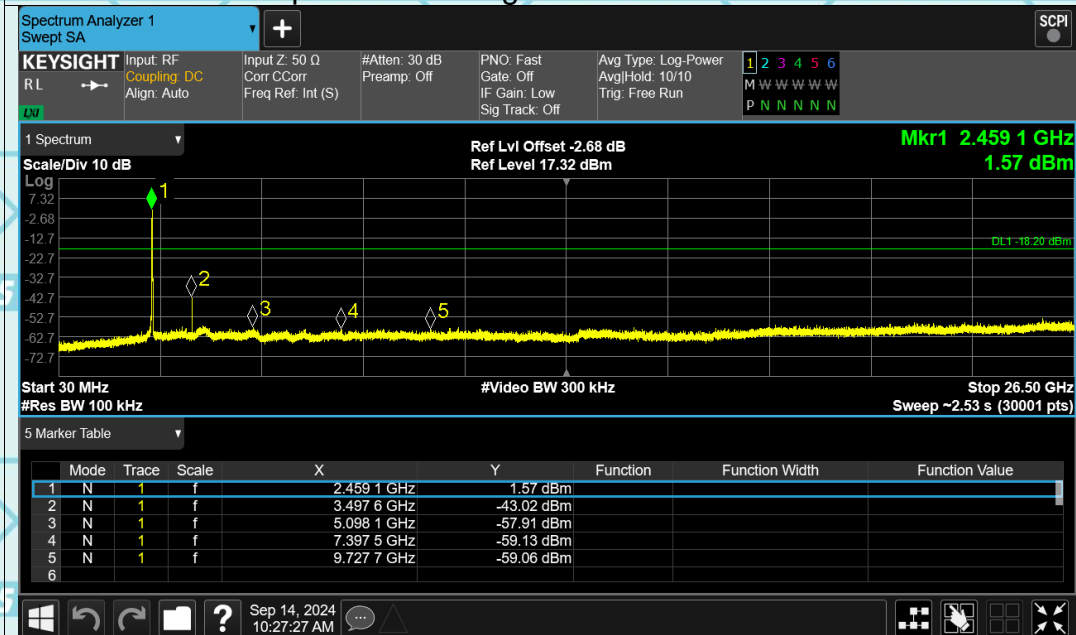


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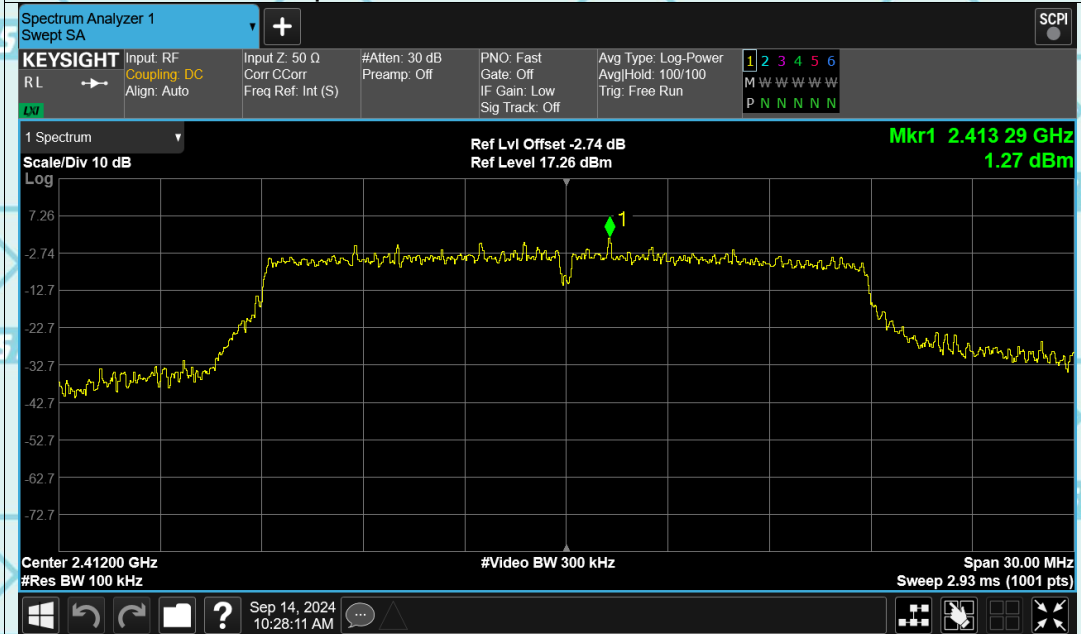


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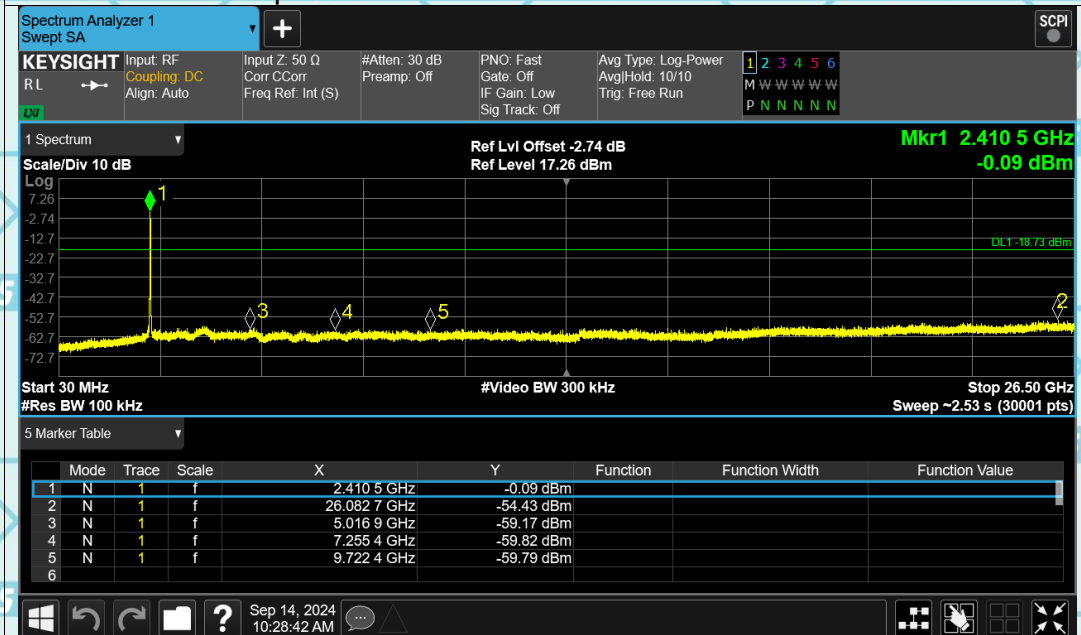


Report No.: WSCT-ANAB-R&E240900045A-Wi-Fi1

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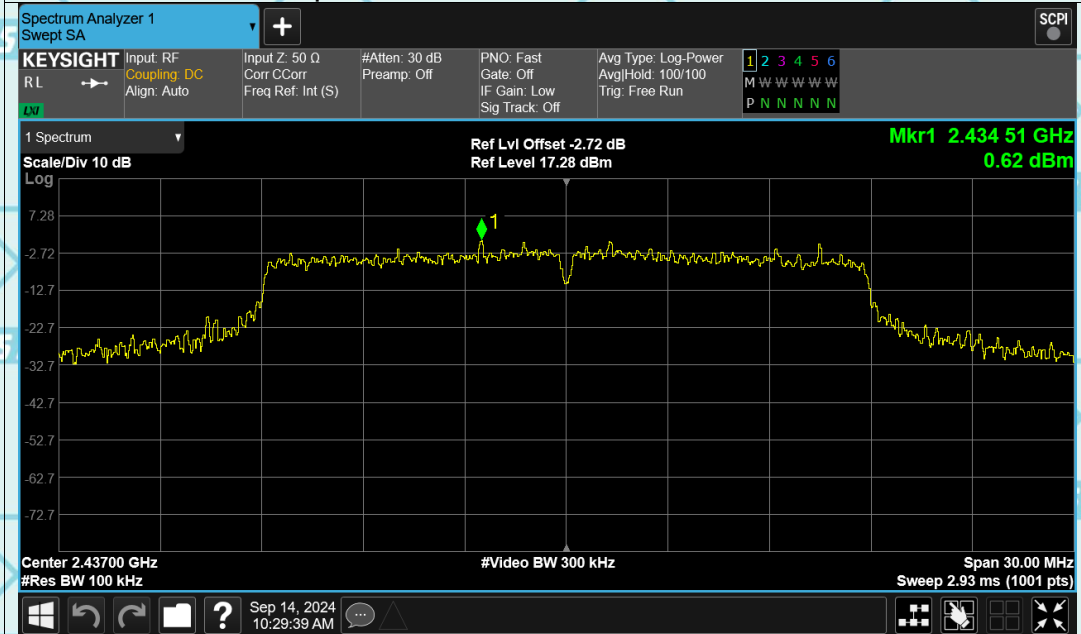


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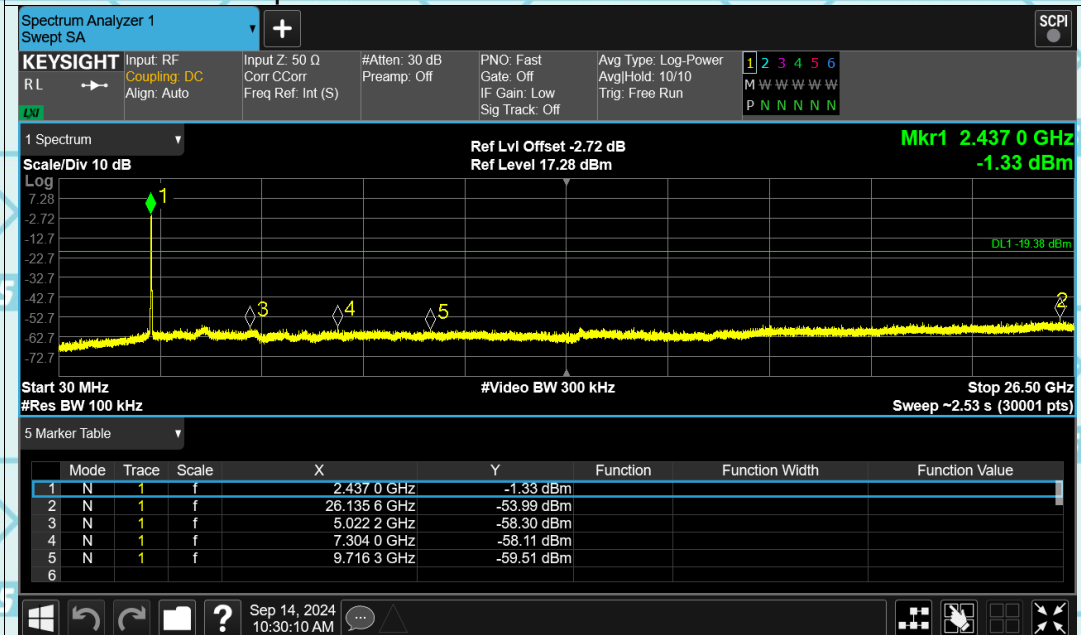


Report No.: WSCT-ANAB-R&E240900045A-Wi-Fi1

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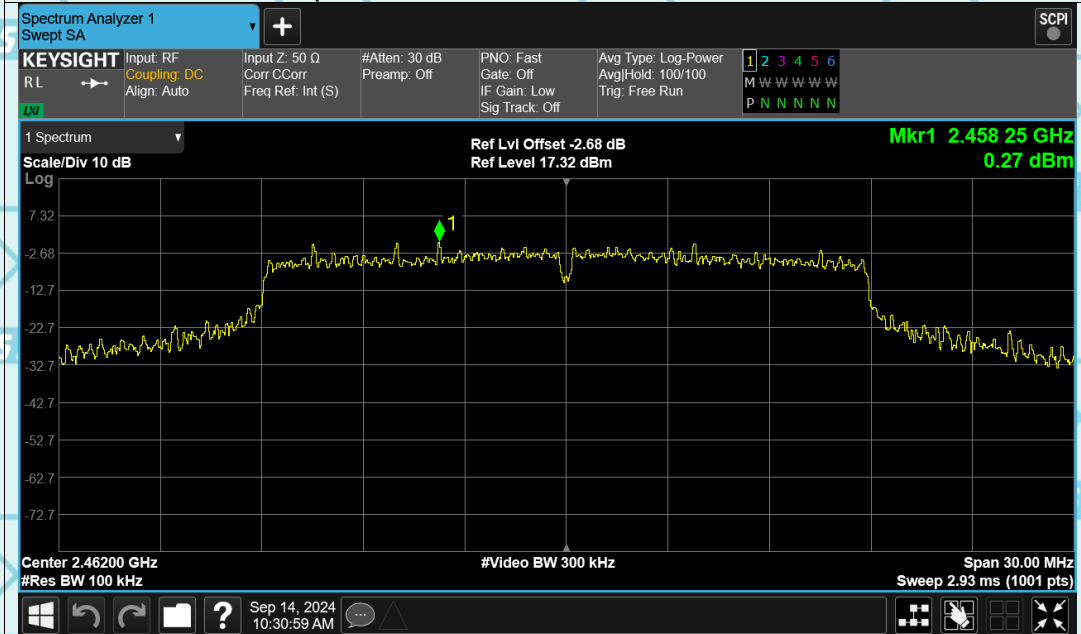


Tx. Spurious NVNT n20 2437MHz Ant1 Emission

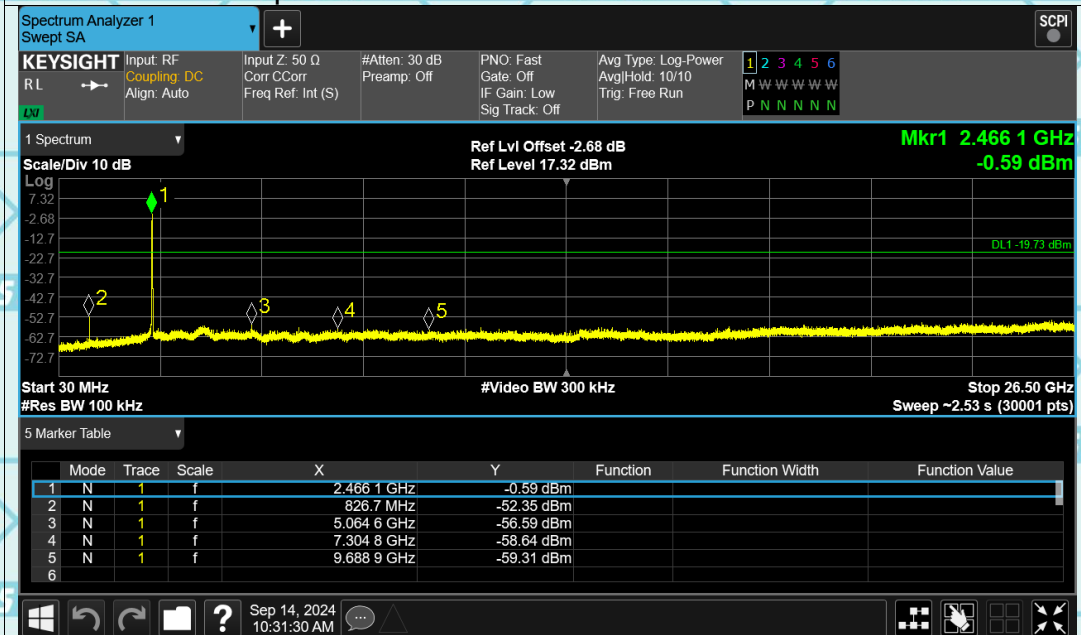


Report No.: WSCT-ANAB-R&E240900045A-Wi-Fi1

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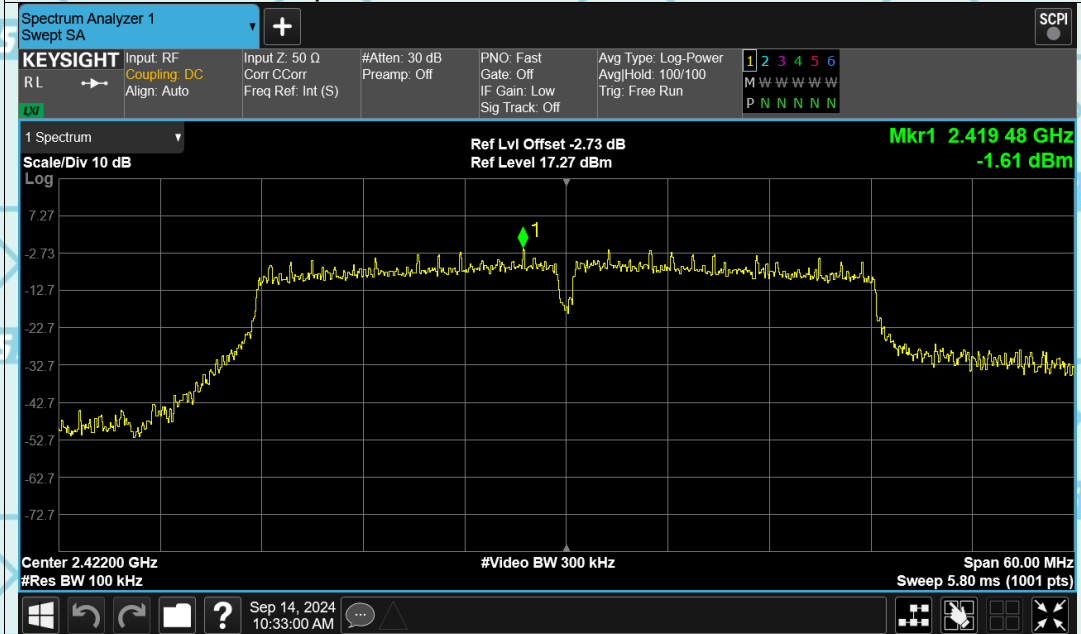


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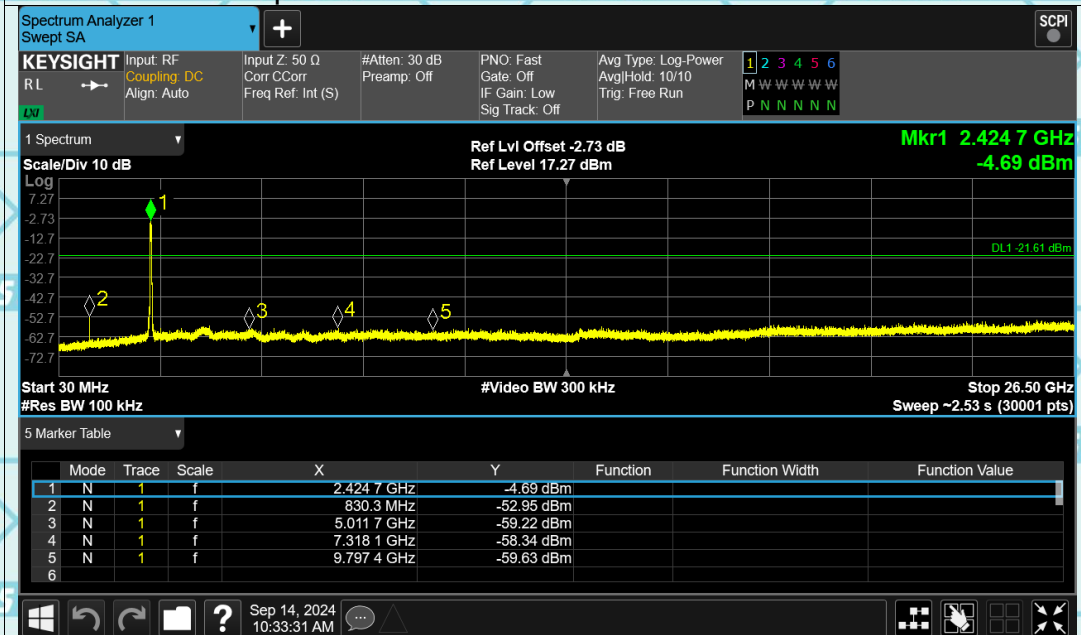


Report No.: WSCT-ANAB-R&E240900045A-Wi-Fi1

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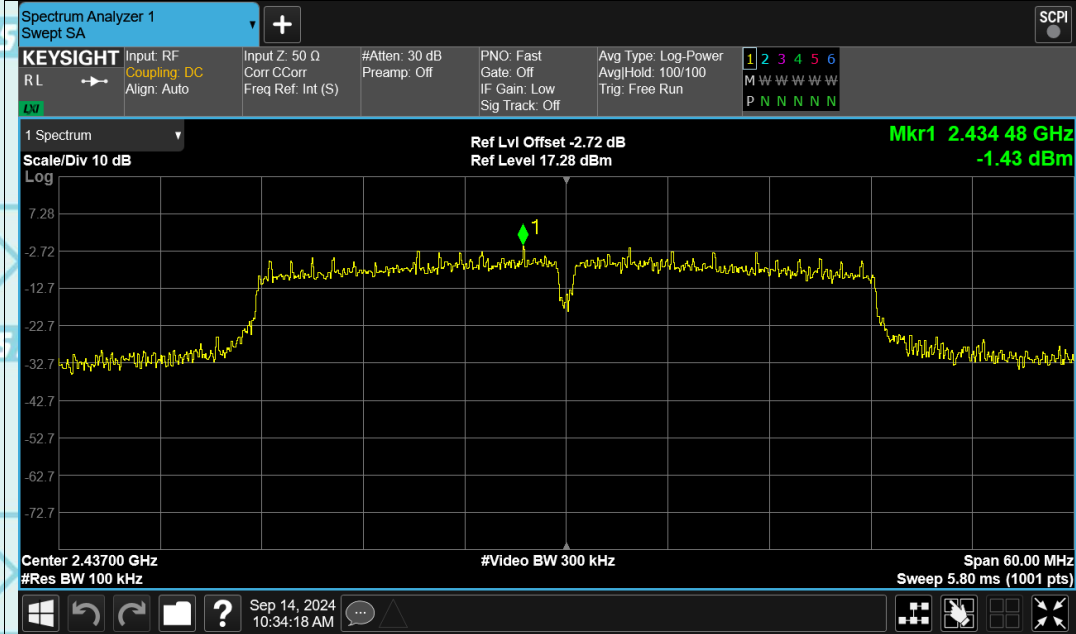


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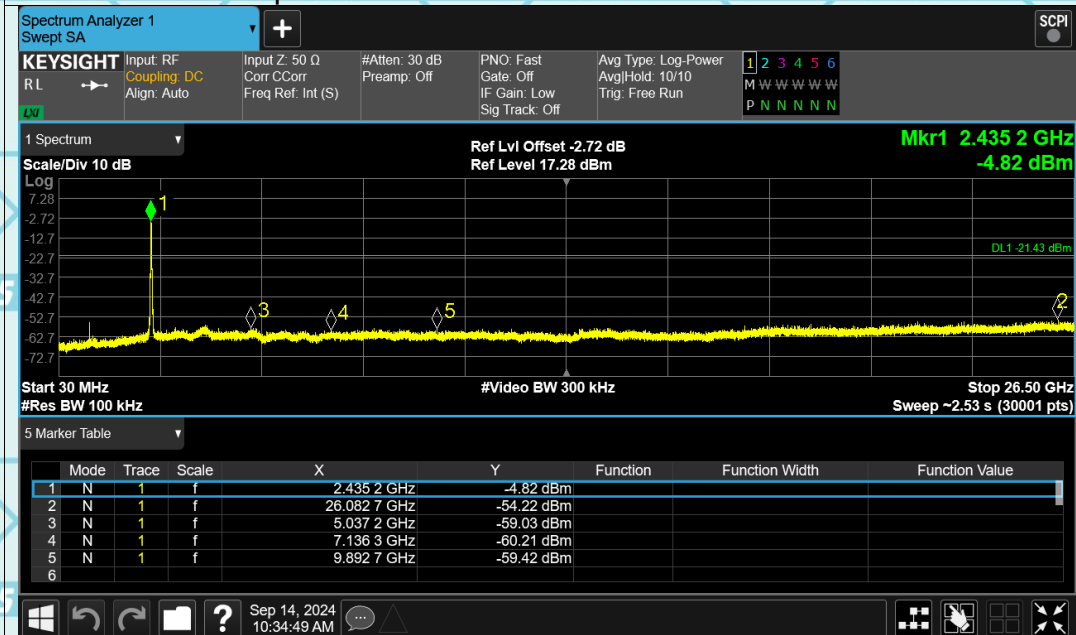


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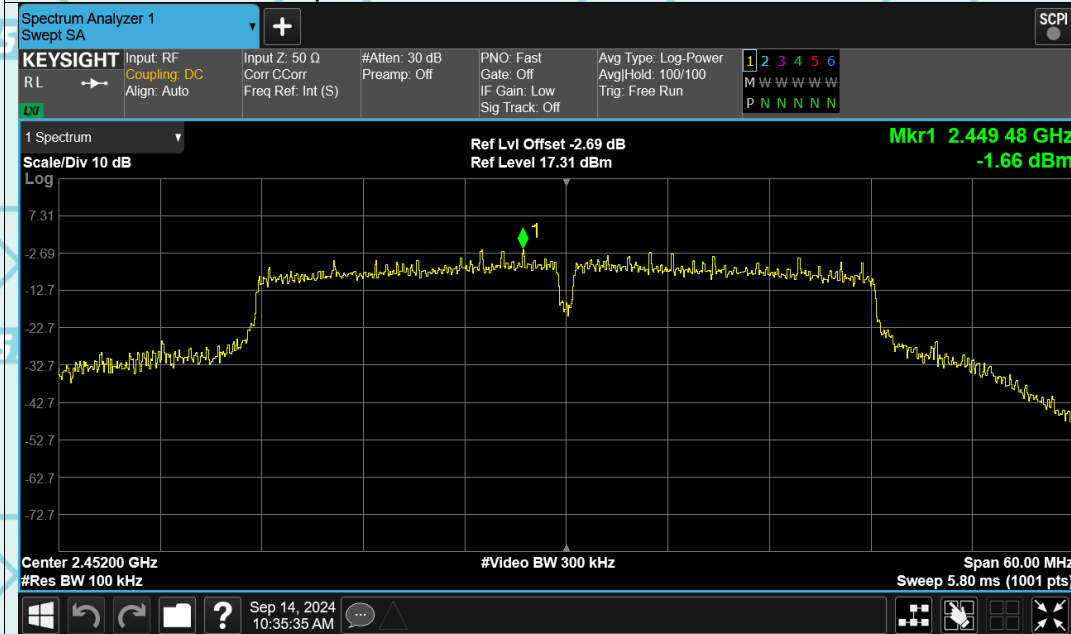


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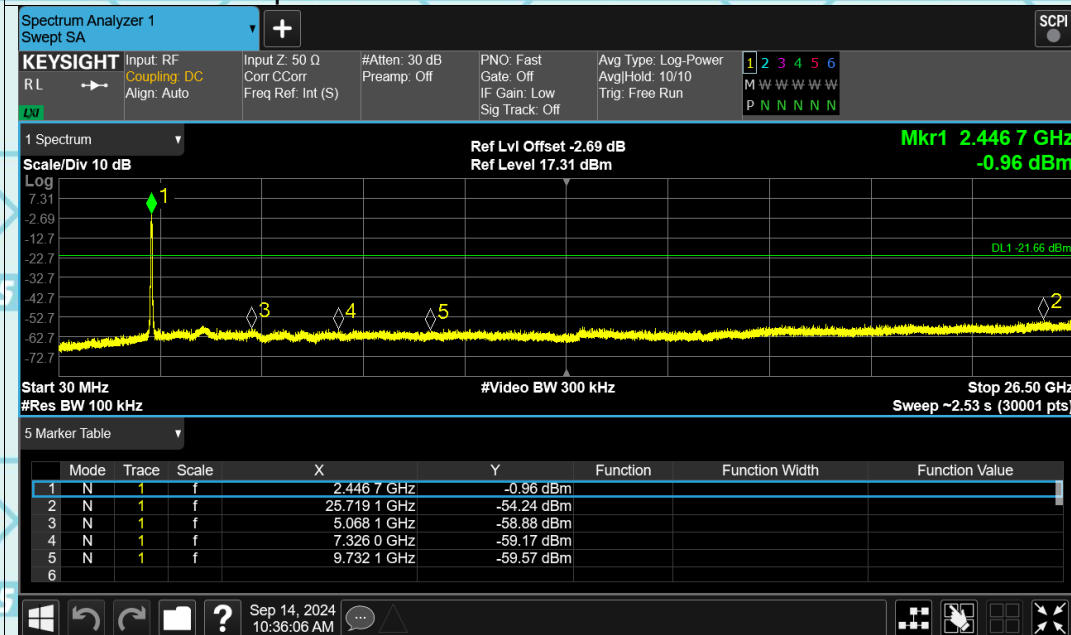


Report No.: WSCT-ANAB-R&E240900045A-Wi-Fi1

Tx. Spurious NVNT n40 2452MHz Ant1 Ref

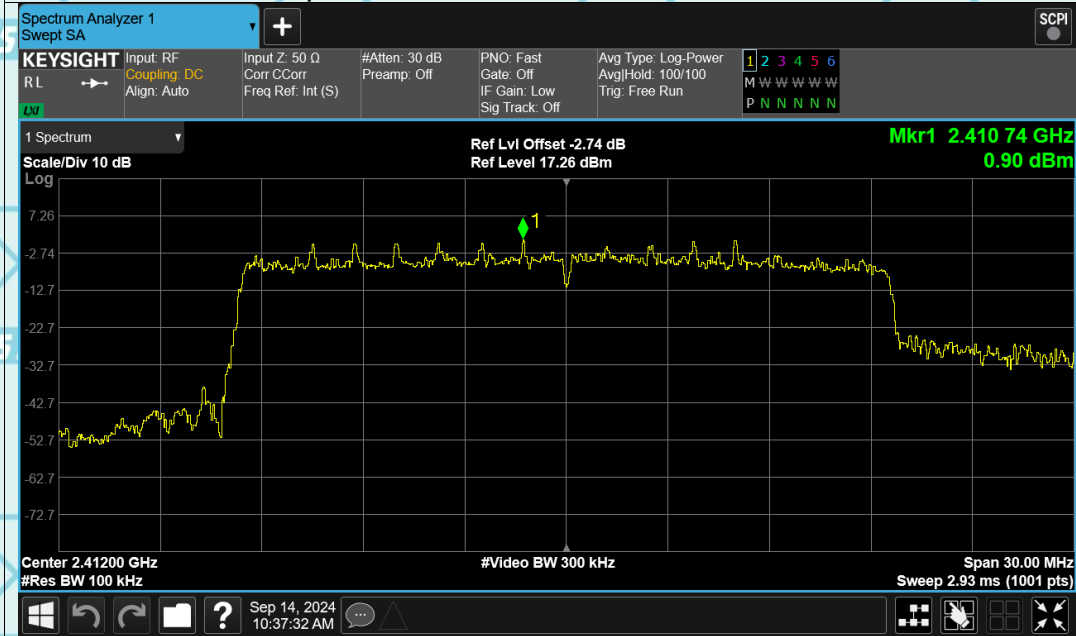


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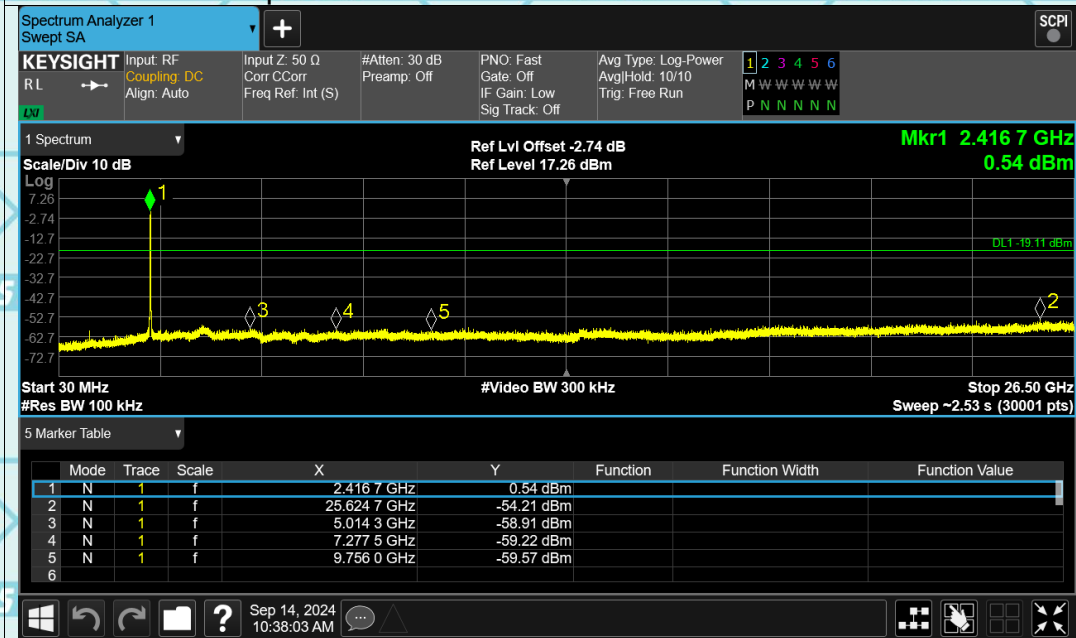


Report No.: WSCT-ANAB-R&E240900045A-Wi-Fi1

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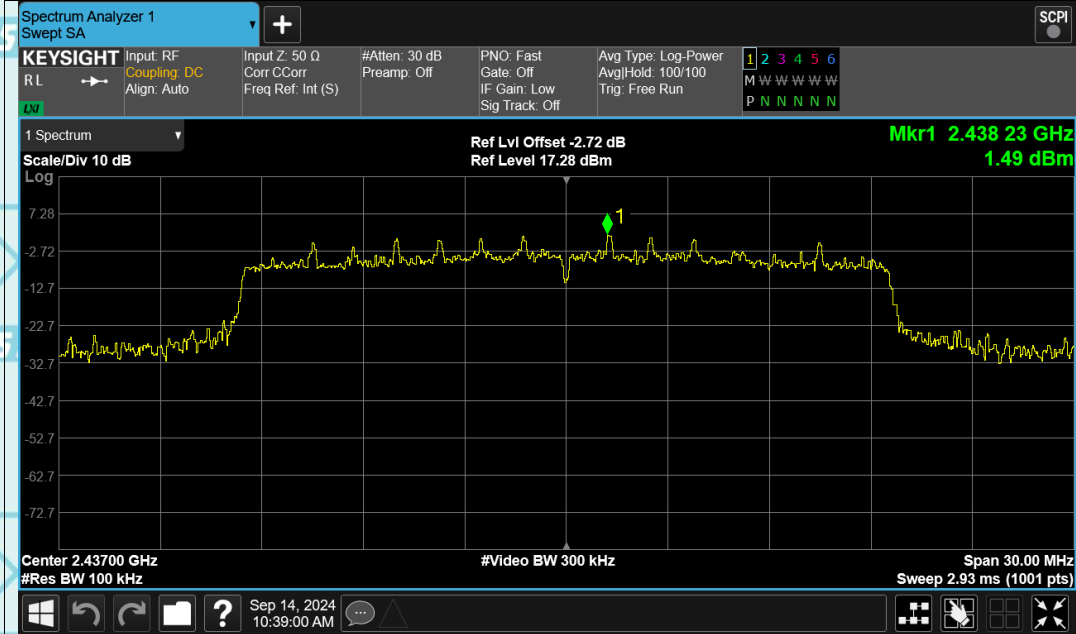


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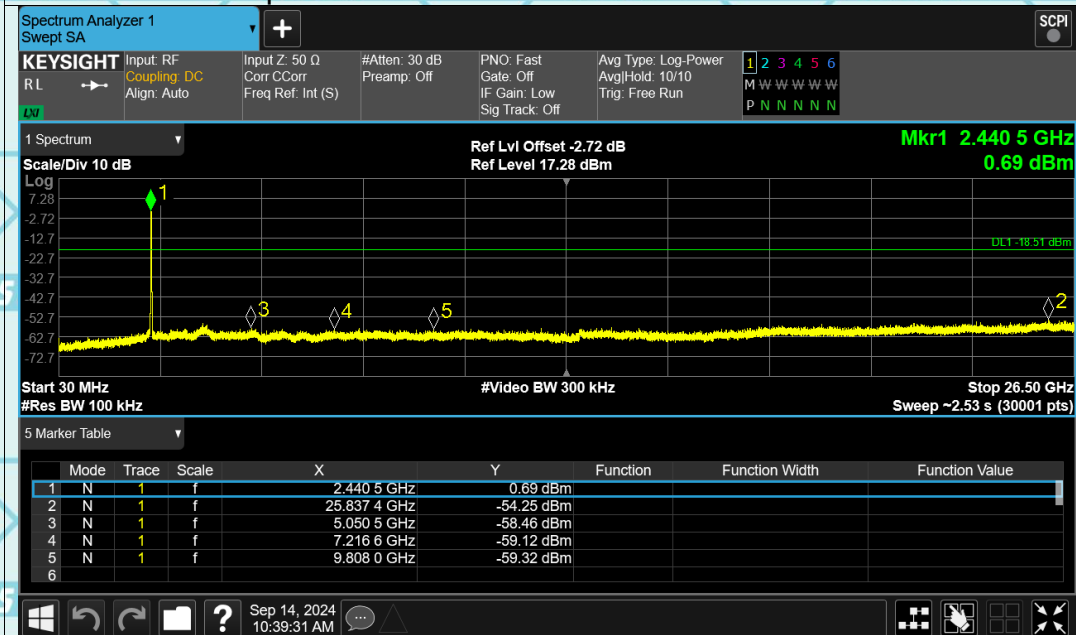


Report No.: WSCT-ANAB-R&E240900045A-Wi-Fi1

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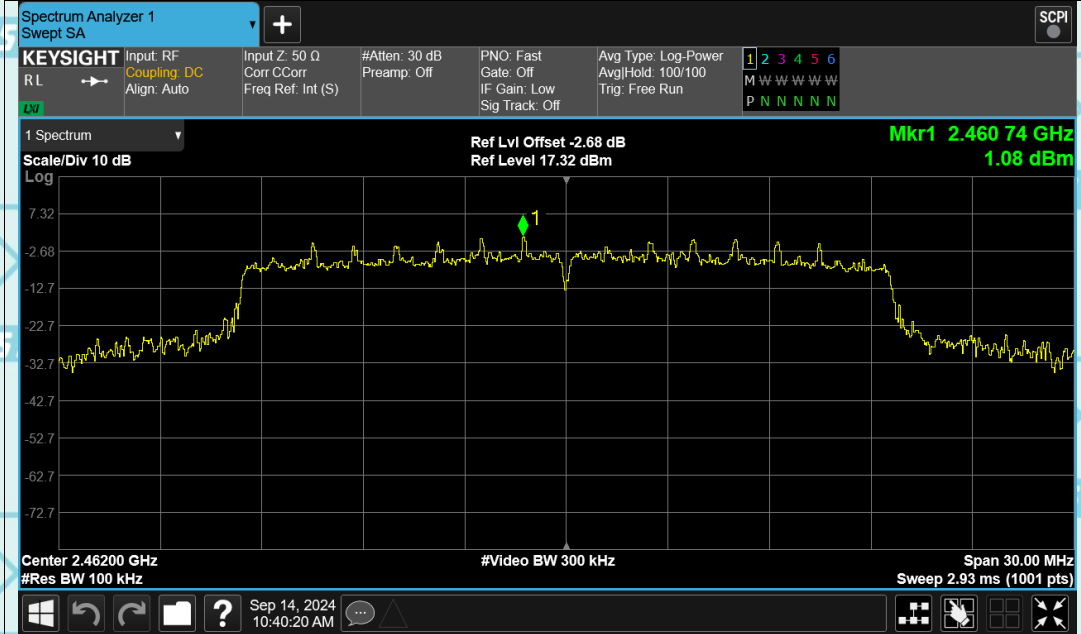


Tx. Spurious NVNT ax20 2437MHz Ant1 Emission

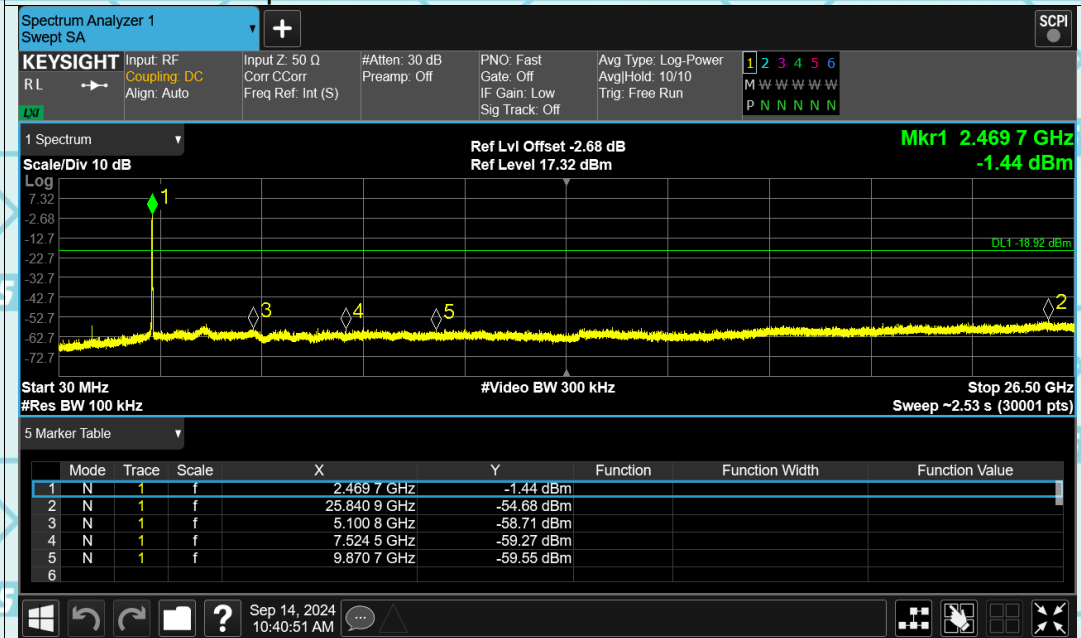


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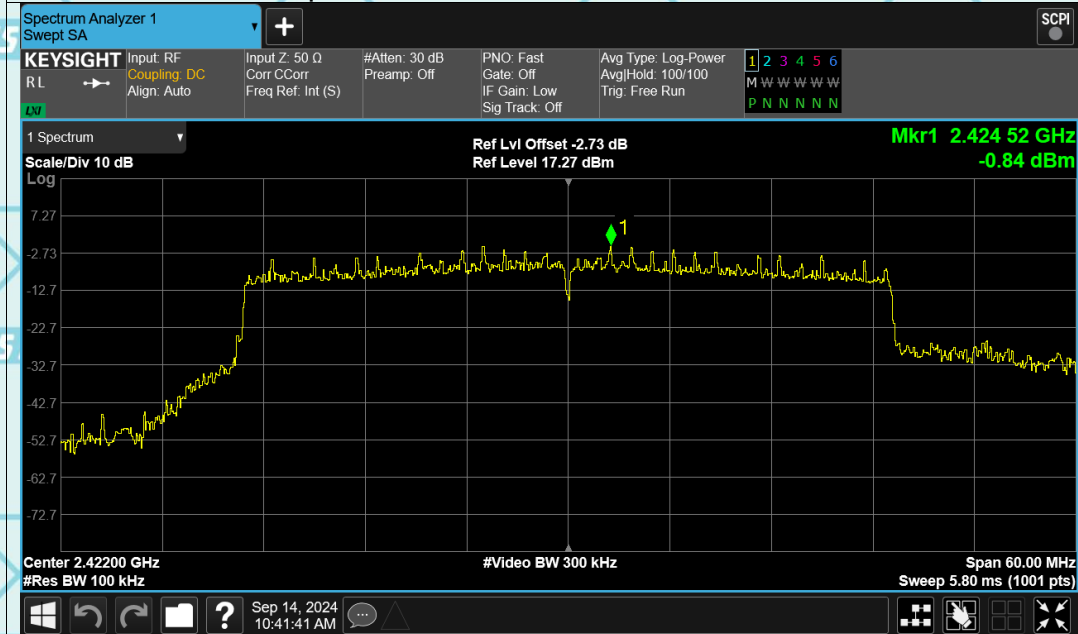


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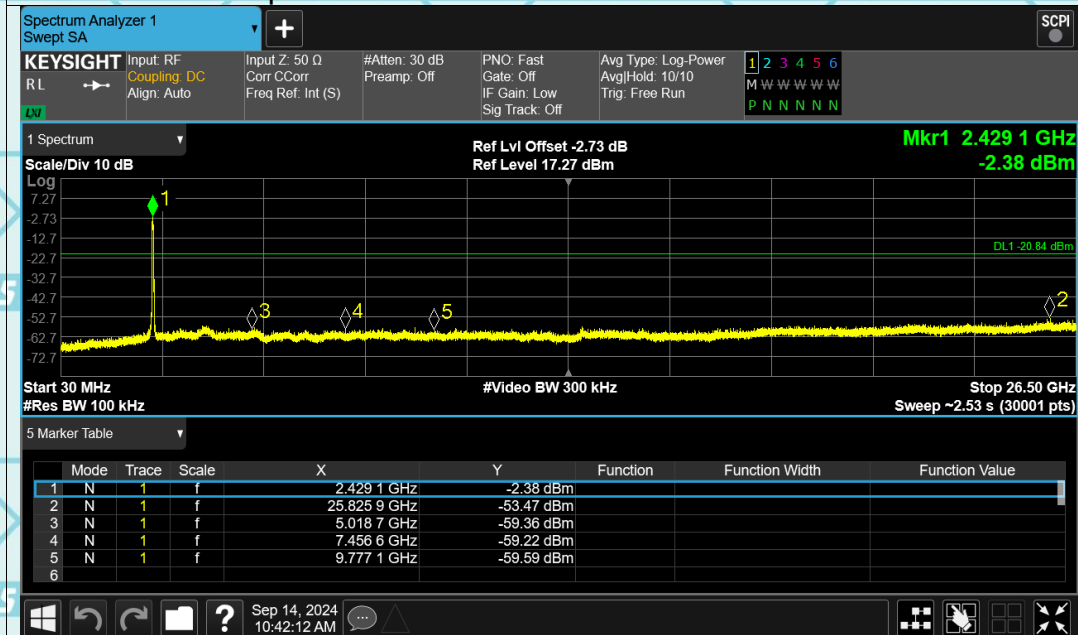


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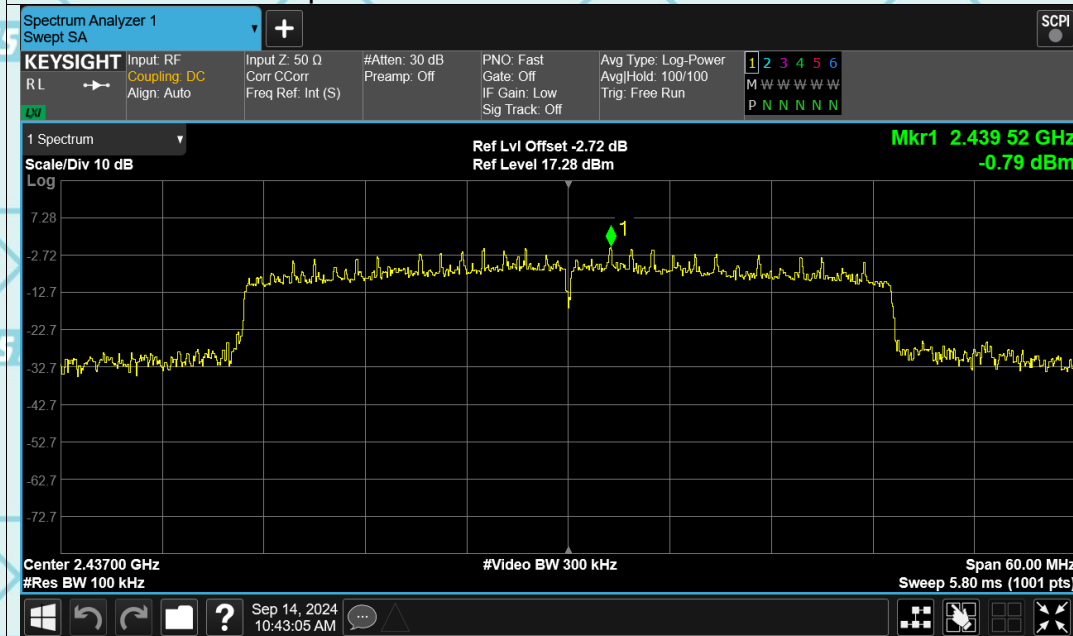


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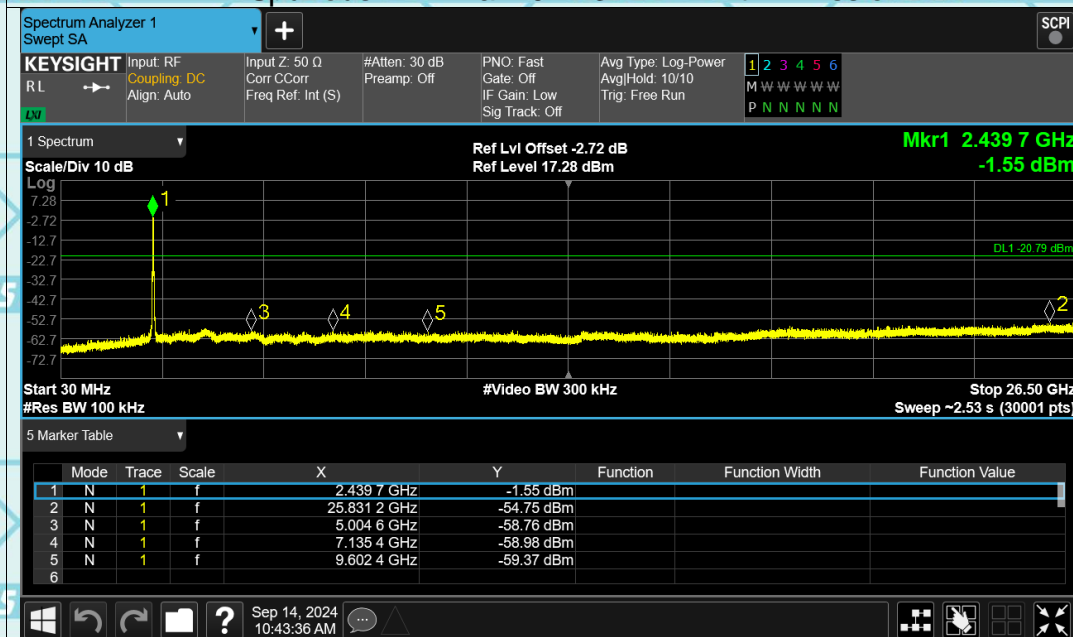


Report No.: WSCT-ANAB-R&E240900045A-Wi-Fi1

Tx. Spurious NVNT ax40 2437MHz Ant1 Ref

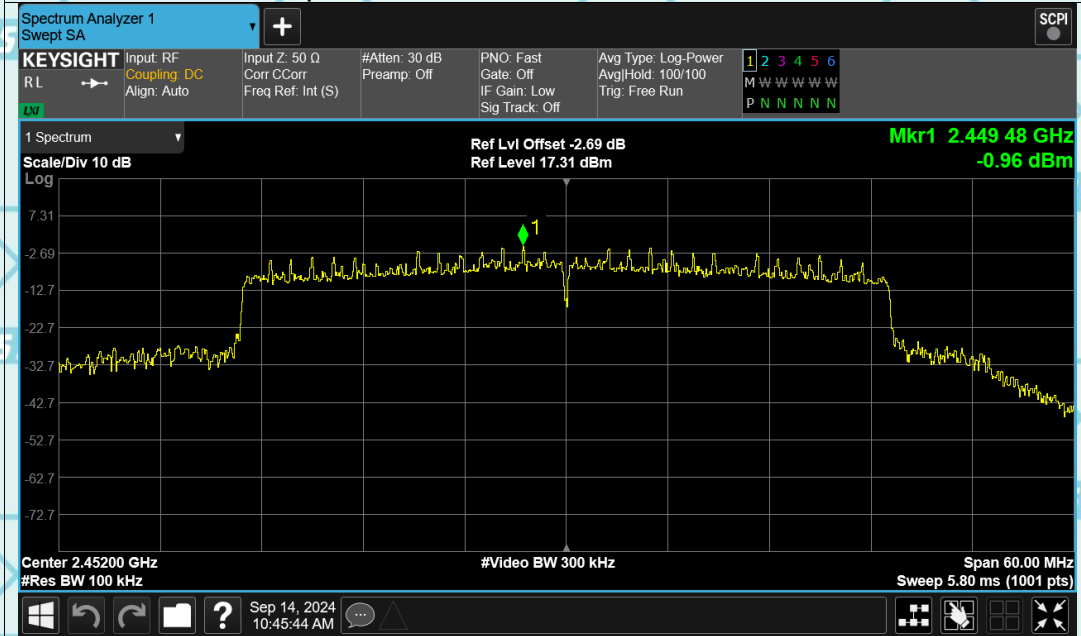


Tx. Spurious NVNT ax40 2437MHz Ant1 Emission

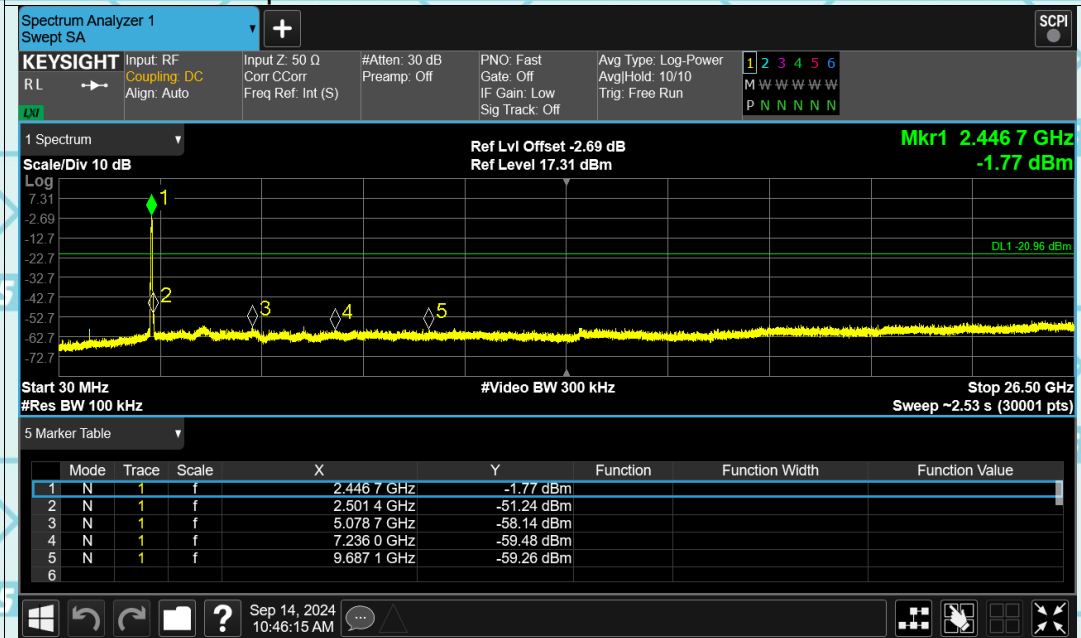


Report No.: WSCT-ANAB-R&E240900045A-Wi-Fi1

Tx. Spurious NVNT ax40 2452MHz Ant1 Ref

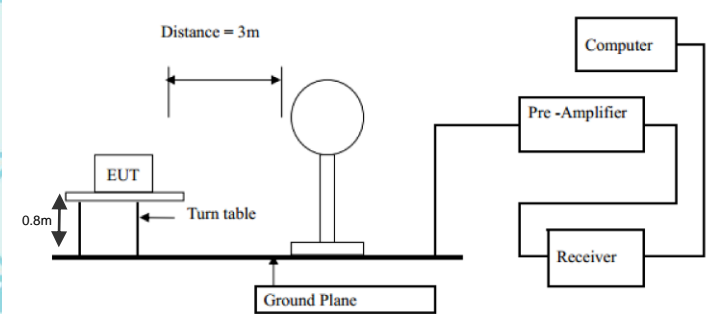


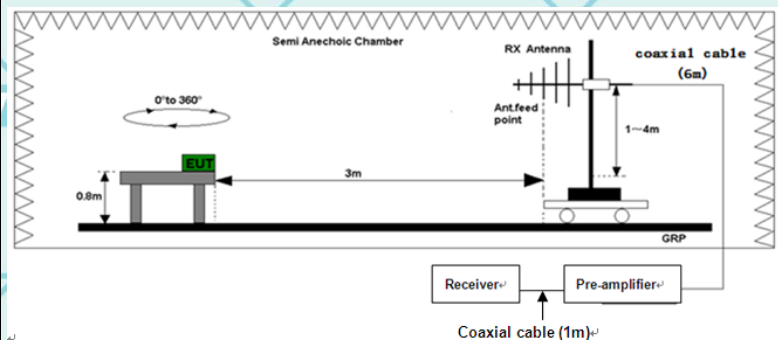
Tx. Spurious NVNT ax40 2452MHz Ant1 Emission



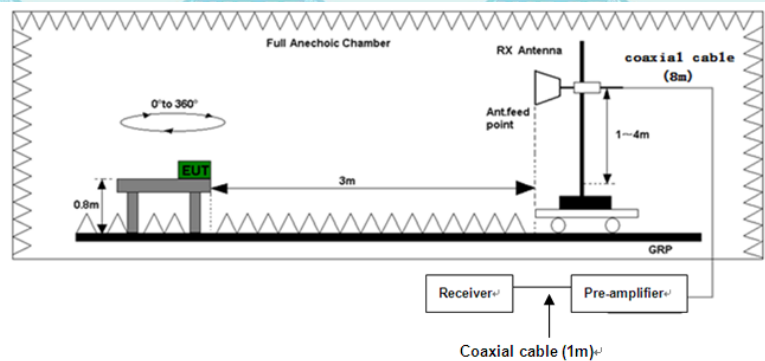
6.6. Radiated Spurious Emission Measurement

6.6.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.209			
Test Method:	ANSI C63.10: 2014			
Frequency Range:	9 kHz to 25 GHz			
Measurement Distance:	3 m			
Antenna Polarization:	Horizontal & Vertical			
Operation mode:	Transmitting mode with modulation			
Receiver Setup:	Frequency	Detector	RBW	VBW
	9kHz- 150kHz	Quasi-peak	200Hz	1kHz
	150kHz- 30MHz	Quasi-peak	9kHz	30kHz
	30MHz-1GHz	Quasi-peak	100KHz	300KHz
	Above 1GHz	Peak	1MHz	3MHz
Limit:		Peak	1MHz	10Hz
				Average Value
	Frequency	Field Strength (microvolts/meter)	Measurement Distance (meters)	
	0.009-0.490	2400/F(KHz)	300	
	0.490-1.705	24000/F(KHz)	30	
Test setup:	1.705-30	30	30	
	30-88	100	3	
	88-216	150	3	
	216-960	200	3	
	Above 960	500	3	
Test setup:	Frequency	Field Strength (microvolts/meter)	Measurement Distance (meters)	Detector
	Above 1GHz	500	3	Average
		5000	3	Peak
	For radiated emissions below 30MHz			
				
Test setup:	30MHz to 1GHz			



Above 1GHz



Test Procedure:

- For the radiated emission test below 1GHz:
The EUT was placed on a turntable with 0.8 meter above ground. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high PASS filter are used for the test in order to get better signal level.
- For the radiated emission test above 1GHz:
Place the measurement antenna on a turntable with 1.5 meter above ground, which is away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

	<p>3. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level</p> <p>4. For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.</p> <p>5. Use the following spectrum analyzer settings:</p> <p>(1) Span shall wide enough to fully capture the emission being measured;</p> <p>(2) Set RBW=100 kHz for $f < 1$ GHz; VBW \geq RBW; Sweep = auto; Detector function = peak; Trace = max hold;</p> <p>(3) Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement.</p> <p>For average measurement: VBW = 10 Hz, when duty cycle is no less than 98 percent. VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.</p>
Test results:	PASS

6.6.2. Test Data(worst case)

Please refer to following diagram for individual
The worst mode is 11b

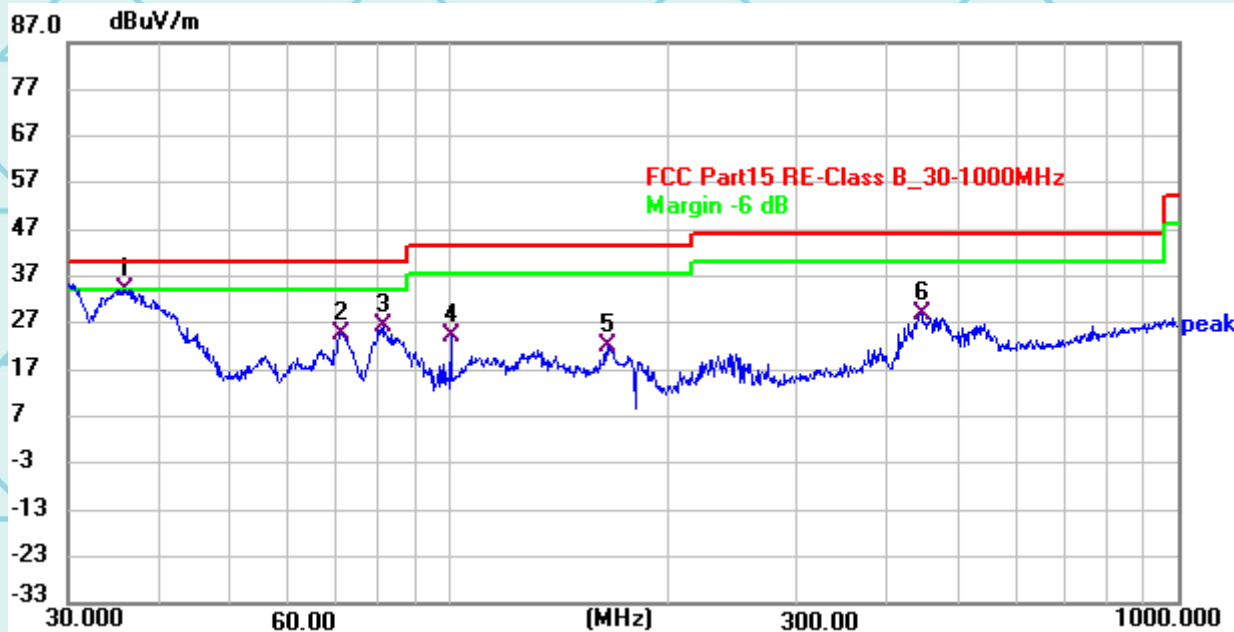
Below 1GHz

Horizontal:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	35.4371	43.80	-19.47	24.33	40.00	-15.67	QP
2	71.4865	41.65	-22.47	19.18	40.00	-20.82	QP
3	81.8909	40.55	-24.08	16.47	40.00	-23.53	QP
4	138.5694	47.54	-20.00	27.54	43.50	-15.96	QP
5 *	253.9480	55.06	-21.63	33.43	46.00	-12.57	QP
6	445.2416	43.51	-16.42	27.09	46.00	-18.91	QP

Report No.: WSCT-ANAB-R&E240900045A-Wi-Fi1
Vertical:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	35.8746	53.62	-19.45	34.17	40.00	-5.83	QP
2	71.2988	47.19	-22.43	24.76	40.00	-15.24	QP
3	81.4613	50.53	-24.08	26.45	40.00	-13.55	QP
4	100.7571	47.89	-23.58	24.31	43.50	-19.19	QP
5	165.9225	42.10	-20.06	22.04	43.50	-21.46	QP
6	445.6321	45.20	-16.41	28.79	46.00	-17.21	QP

Note1:

Freq. = Emission frequency in MHz

Reading level (dBuV) = Receiver reading

Corr. Factor (dB) = Antenna factor + Cable loss - Amplifier factor.

Measurement (dBuV) = Reading level (dBuV) + Corr. Factor (dB)

Limit (dBuV) = Limit stated in standard

Margin (dB) = Measurement (dBuV) - Limits (dBuV)

Report No.: WSCT-ANAB-R&E240900045A-Wi-Fi1

Above 1GHz

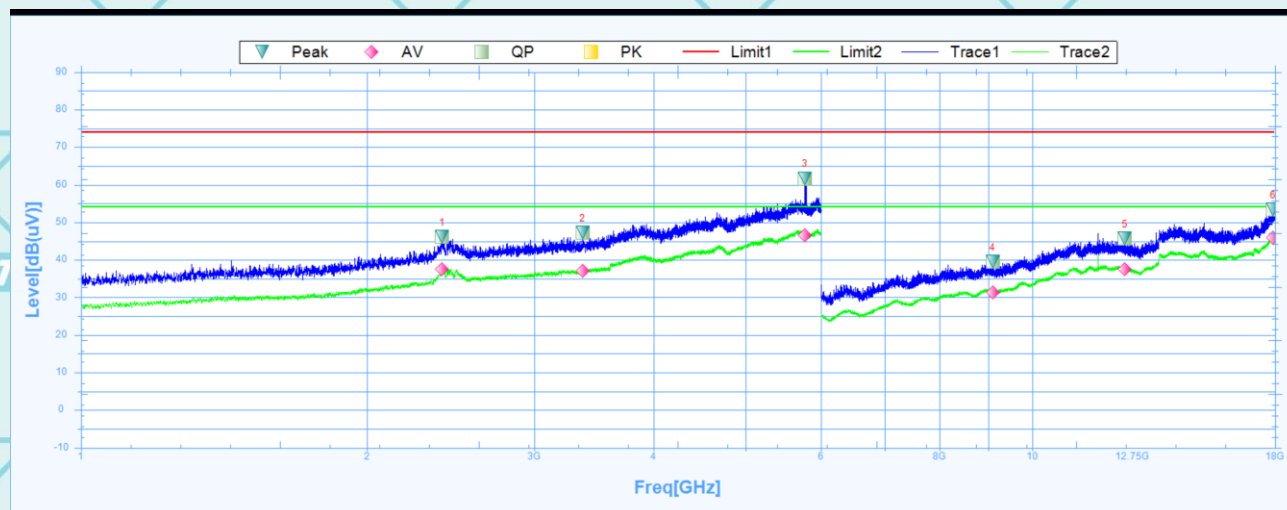
Note 1: The marked spikes near 2400 MHz with circle should be ignored because they are Fundamental signal.

Note 2: The spurious above 18G is noise only, do not show on the report.

Note 3: Report and only recorded the worst-case scenario "MIMO Mode 802.11b".

1 GHz to 18 GHz, MIMO Mode 802.11b Low Channel

Horizontal :

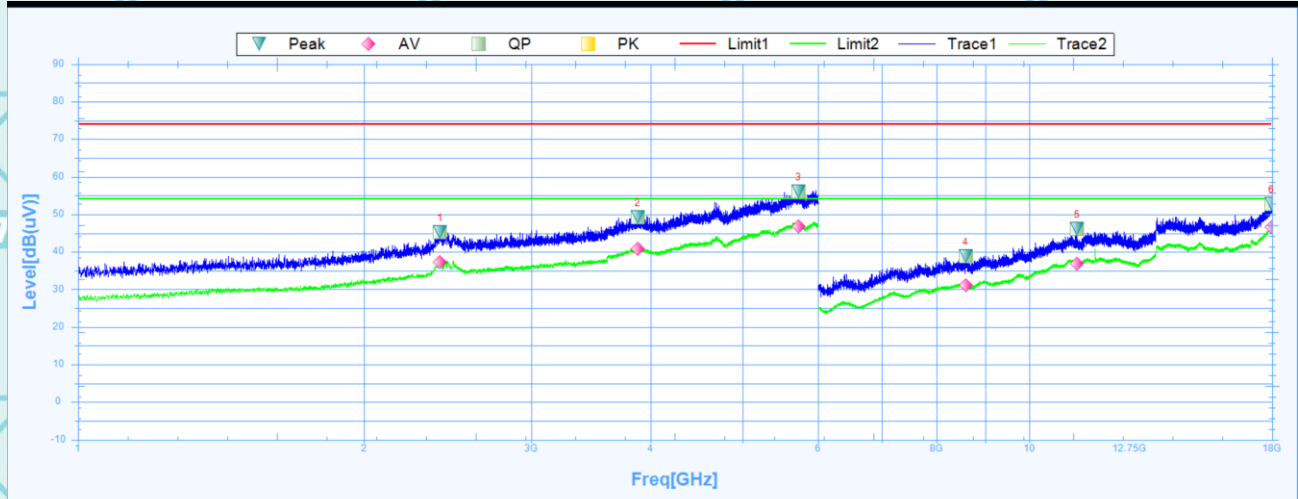


Suspected Data List

NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	2398.7500	46.17	27.26	18.91	74	-27.83	11.4	Horizontal	PK	Pass
1	2398.7500	37.51	27.26	10.25	54	-16.49	11.4	Horizontal	AV	Pass
2	3370.0000	47.12	28.42	18.7	74	-26.88	195.2	Horizontal	PK	Pass
2	3370.0000	37.11	28.42	8.69	54	-16.89	195.2	Horizontal	AV	Pass
3	5773.1250	61.68	32.44	29.24	74	-12.32	147.4	Horizontal	PK	Pass
3	5773.1250	46.59	32.44	14.15	54	-7.41	147.4	Horizontal	AV	Pass
4	9090.0000	39.41	9.91	29.5	74	-34.59	22.4	Horizontal	PK	Pass
4	9090.0000	31.29	9.91	21.38	54	-22.71	22.4	Horizontal	AV	Pass
5	12525.0000	45.58	16.38	29.2	74	-28.42	263.8	Horizontal	PK	Pass
5	12525.0000	37.41	16.38	21.03	54	-16.59	263.8	Horizontal	AV	Pass
6	17923.5000	53.32	23.41	29.91	74	-20.68	263.8	Horizontal	PK	Pass
6	17923.5000	45.93	23.41	22.52	54	-8.07	263.8	Horizontal	AV	Pass

Report No.: WSCT-ANAB-R&E240900045A-Wi-Fi1

Vertical:



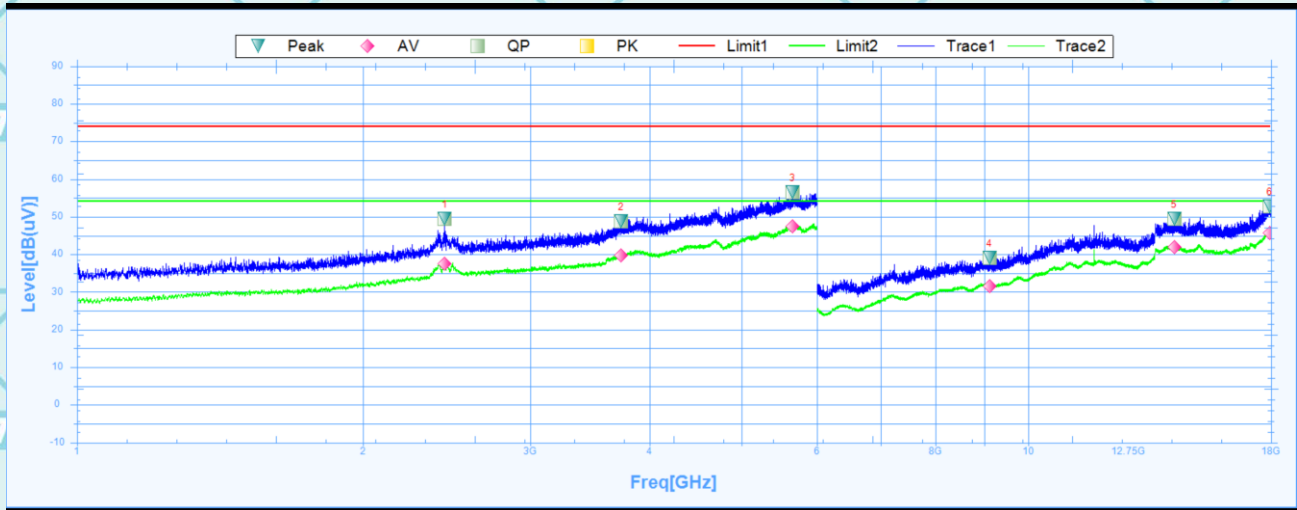
Susputed Data List

NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	2403.7500	45.27	27.27	18	74	-28.73	37.5	Vertical	PK	Pass
1	2403.7500	37.24	27.27	9.97	54	-16.76	37.5	Vertical	AV	Pass
2	3878.1250	49.28	29.41	19.87	74	-24.72	167.8	Vertical	PK	Pass
2	3878.1250	40.93	29.41	11.52	54	-13.07	167.8	Vertical	AV	Pass
3	5726.2500	56.07	32.36	23.71	74	-17.93	59	Vertical	PK	Pass
3	5726.2500	46.87	32.36	14.51	54	-7.13	59	Vertical	AV	Pass
4	8577.0000	38.88	9.31	29.57	74	-35.12	266.2	Vertical	PK	Pass
4	8577.0000	31.05	9.31	21.74	54	-22.95	266.2	Vertical	AV	Pass
5	11235.0000	46.2	15.69	30.51	74	-27.8	335.6	Vertical	PK	Pass
5	11235.0000	36.74	15.69	21.05	54	-17.26	335.6	Vertical	AV	Pass
6	17982.0000	52.69	23.8	28.89	74	-21.31	341.8	Vertical	PK	Pass
6	17982.0000	46.61	23.8	22.81	54	-7.39	341.8	Vertical	AV	Pass

Report No.: WSCT-ANAB-R&E240900045A-Wi-Fi1

1 GHz to 18 GHz, MIMO Mode 802.11b Middle Channel

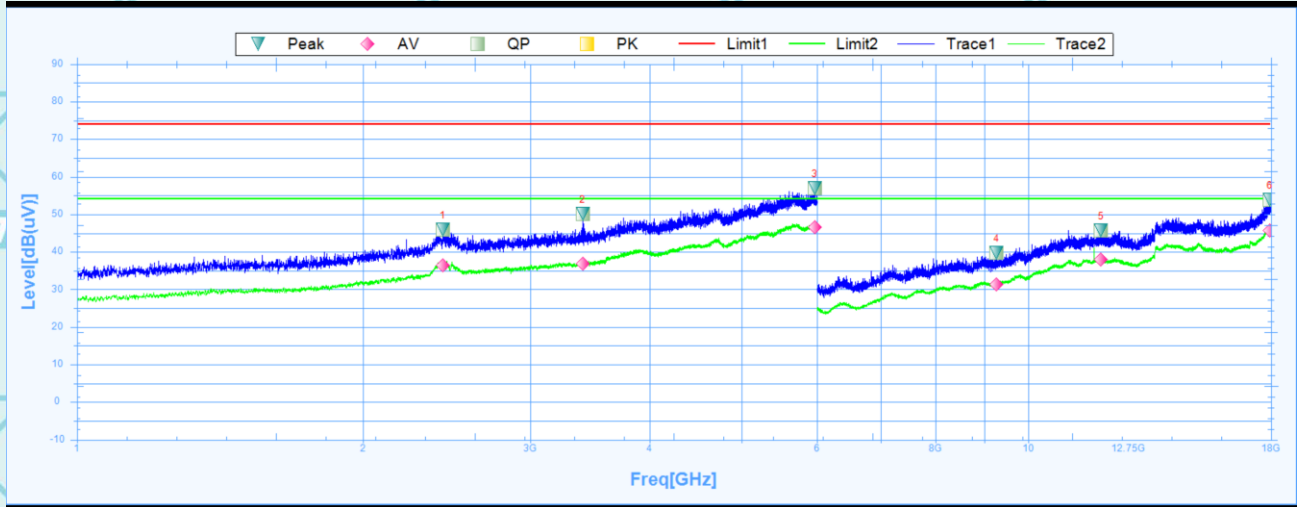
Horizontal :



Suspected Data List										
NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	2436.8750	49.52	27.39	22.13	74	-24.48	15	Horizontal	PK	Pass
1	2436.8750	37.41	27.39	10.02	54	-16.59	15	Horizontal	AV	Pass
2	3735.6250	48.84	29.07	19.77	74	-25.16	279	Horizontal	PK	Pass
2	3735.6250	39.62	29.07	10.55	54	-14.38	279	Horizontal	AV	Pass
3	5656.8750	56.48	32.25	24.23	74	-17.52	53.1	Horizontal	PK	Pass
3	5656.8750	47.52	32.25	15.27	54	-6.48	53.1	Horizontal	AV	Pass
4	9108.0000	39.05	9.95	29.1	74	-34.95	84.6	Horizontal	PK	Pass
4	9108.0000	31.48	9.95	21.53	54	-22.52	84.6	Horizontal	AV	Pass
5	14244.0000	49.41	18.87	30.54	74	-24.59	263.8	Horizontal	PK	Pass
5	14244.0000	42.02	18.87	23.15	54	-11.98	263.8	Horizontal	AV	Pass
6	17947.5000	52.74	23.56	29.18	74	-21.26	187.4	Horizontal	PK	Pass
6	17947.5000	45.57	23.56	22.01	54	-8.43	187.4	Horizontal	AV	Pass

Report No.: WSCT-ANAB-R&E240900045A-Wi-Fi1

Vertical:

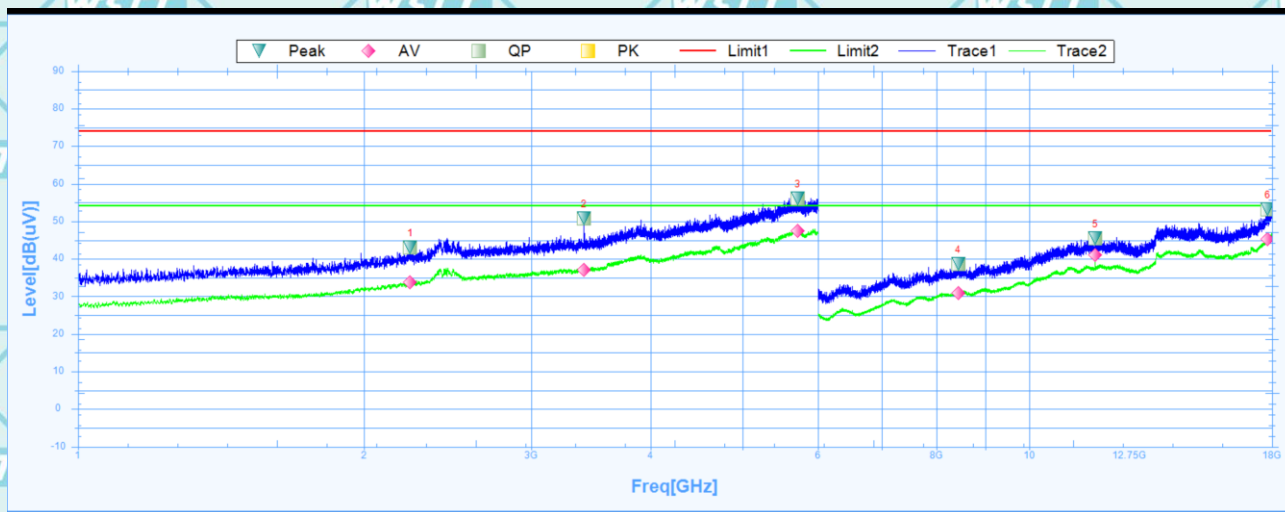


Suspected Data List										
NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	2425.0000	45.82	27.35	18.47	74	-28.18	288	Vertical	PK	Pass
1	2425.0000	36.39	27.35	9.04	54	-17.61	288	Vertical	AV	Pass
2	3402.5000	50.18	28.44	21.74	74	-23.82	327.4	Vertical	PK	Pass
2	3402.5000	36.87	28.44	8.43	54	-17.13	327.4	Vertical	AV	Pass
3	5969.3750	56.85	32.75	24.1	74	-17.15	166.1	Vertical	PK	Pass
3	5969.3750	46.65	32.75	13.9	54	-7.35	166.1	Vertical	AV	Pass
4	9268.5000	39.69	10.28	29.41	74	-34.31	39.9	Vertical	PK	Pass
4	9268.5000	31.35	10.28	21.07	54	-22.65	39.9	Vertical	AV	Pass
5	11935.5000	45.62	16.63	28.99	74	-28.38	0.5	Vertical	PK	Pass
5	11935.5000	37.98	16.63	21.35	54	-16.02	0.5	Vertical	AV	Pass
6	17953.5000	53.85	23.6	30.25	74	-20.15	268.2	Vertical	PK	Pass
6	17953.5000	45.79	23.6	22.19	54	-8.21	268.2	Vertical	AV	Pass

Report No.: WSCT-ANAB-R&E240900045A-Wi-Fi1

1 GHz to 18 GHz, MIMO Mode 802.11b High Channel

Horizontal :

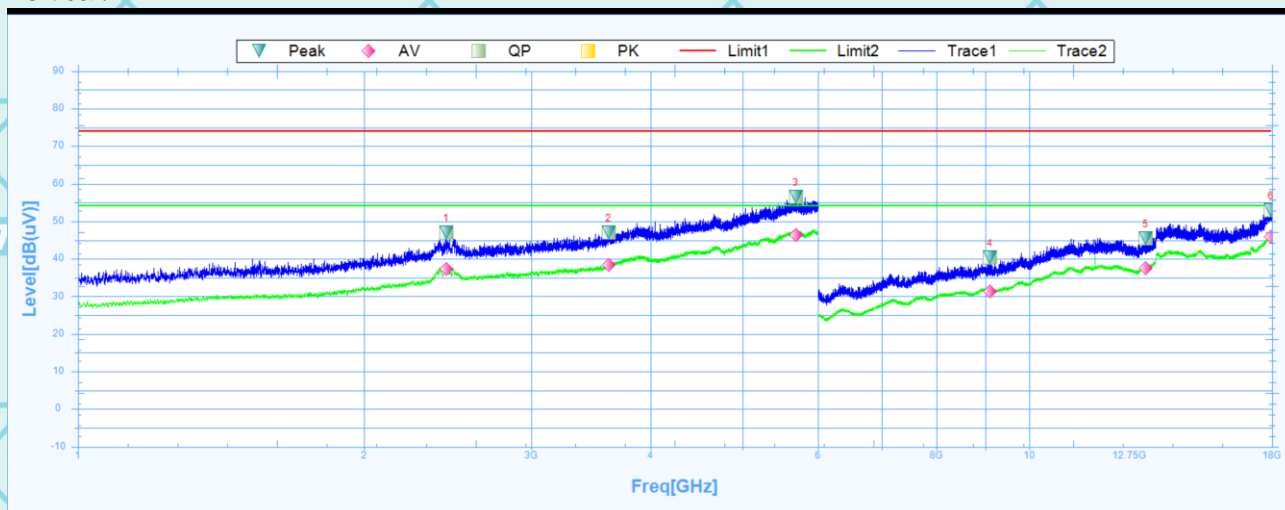


Susputed Data List

NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	2236.2500	43.08	26.7	16.38	74	-30.92	242.5	Horizontal	PK	Pass
1	2236.2500	33.72	26.7	7.02	54	-20.28	242.5	Horizontal	AV	Pass
2	3406.8750	50.76	28.44	22.32	74	-23.24	0	Horizontal	PK	Pass
2	3406.8750	37.09	28.44	8.65	54	-16.91	0	Horizontal	AV	Pass
3	5716.8750	56.01	32.35	23.66	74	-17.99	359	Horizontal	PK	Pass
3	5716.8750	47.4	32.35	15.05	54	-6.6	359	Horizontal	AV	Pass
4	8424.0000	38.7	9.12	29.58	74	-35.3	1.5	Horizontal	PK	Pass
4	8424.0000	30.97	9.12	21.85	54	-23.03	1.5	Horizontal	AV	Pass
5	11745.0000	45.4	16.11	29.29	74	-28.6	166.7	Horizontal	PK	Pass
5	11745.0000	41.15	16.11	25.04	54	-12.85	166.7	Horizontal	AV	Pass
6	17823.0000	53.22	22.77	30.45	74	-20.78	81.8	Horizontal	PK	Pass
6	17823.0000	45.17	22.77	22.4	54	-8.83	81.8	Horizontal	AV	Pass

Report No.: WSCT-ANAB-R&E240900045A-Wi-Fi1

Vertical:



Suspected Data List										
NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	2438.7500	46.96	27.39	19.57	74	-27.04	145.7	Vertical	PK	Pass
1	2438.7500	37.24	27.39	9.85	54	-16.76	145.7	Vertical	AV	Pass
2	3614.3750	46.92	28.77	18.15	74	-27.08	0.1	Vertical	PK	Pass
2	3614.3750	38.33	28.77	9.56	54	-15.67	0.1	Vertical	AV	Pass
3	5688.1250	56.42	32.3	24.12	74	-17.58	90.7	Vertical	PK	Pass
3	5688.1250	46.39	32.3	14.09	54	-7.61	90.7	Vertical	AV	Pass
4	9099.0000	40.35	9.93	30.42	74	-33.65	25.6	Vertical	PK	Pass
4	9099.0000	31.32	9.93	21.39	54	-22.68	25.6	Vertical	AV	Pass
5	13261.5000	45.45	16.94	28.51	74	-28.55	360	Vertical	PK	Pass
5	13261.5000	37.55	16.94	20.61	54	-16.45	360	Vertical	AV	Pass
6	17959.5000	52.88	23.64	29.24	74	-21.12	106.9	Vertical	PK	Pass
6	17959.5000	45.92	23.64	22.28	54	-8.08	106.9	Vertical	AV	Pass

Note:

1. All emissions not reported were more than 20dB below the specified limit or in the noise floor.
2. Emission Level= Reading Level+ Probe Factor +Cable Loss.
3. Data of measurement within this frequency range shown "--" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

7 Test Setup Photographs

“Please refer to Annex "Set Up Photos-15C" for test setup photos”

*******END OF REPORT*******