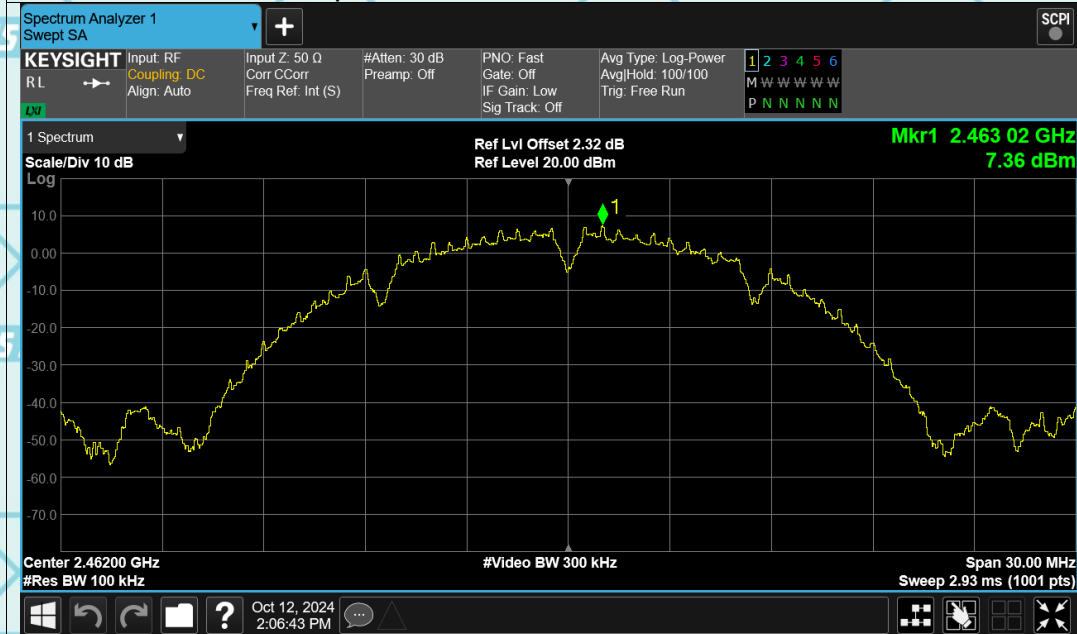
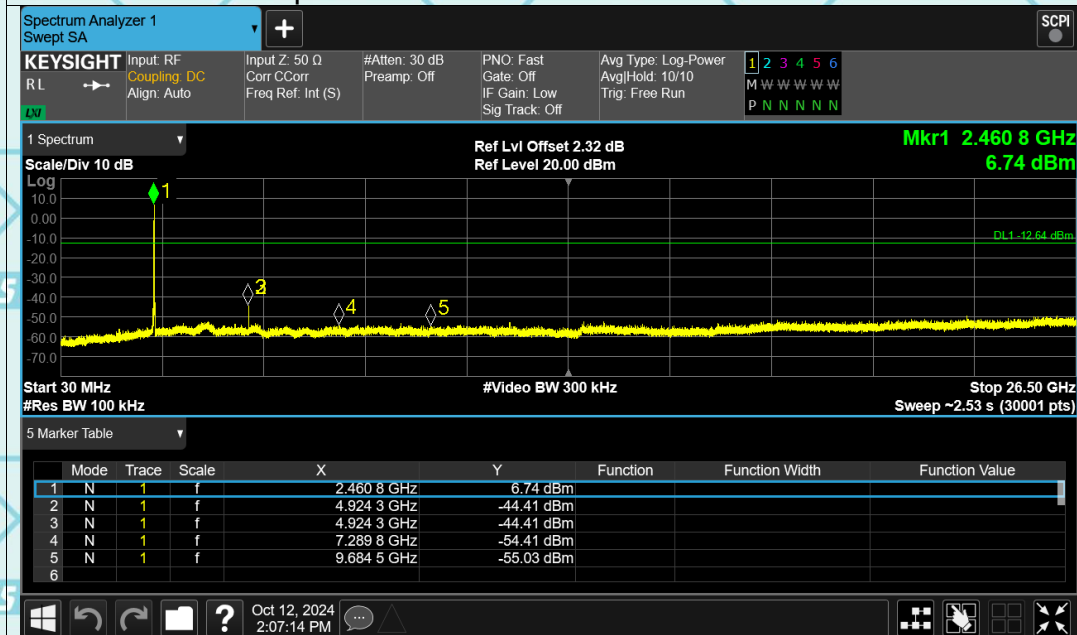


Report No.: WSCT-ANAB-R&E241100056A-Wi-Fi1

Tx. Spurious NVNT b 2462MHz Ant1 Ref

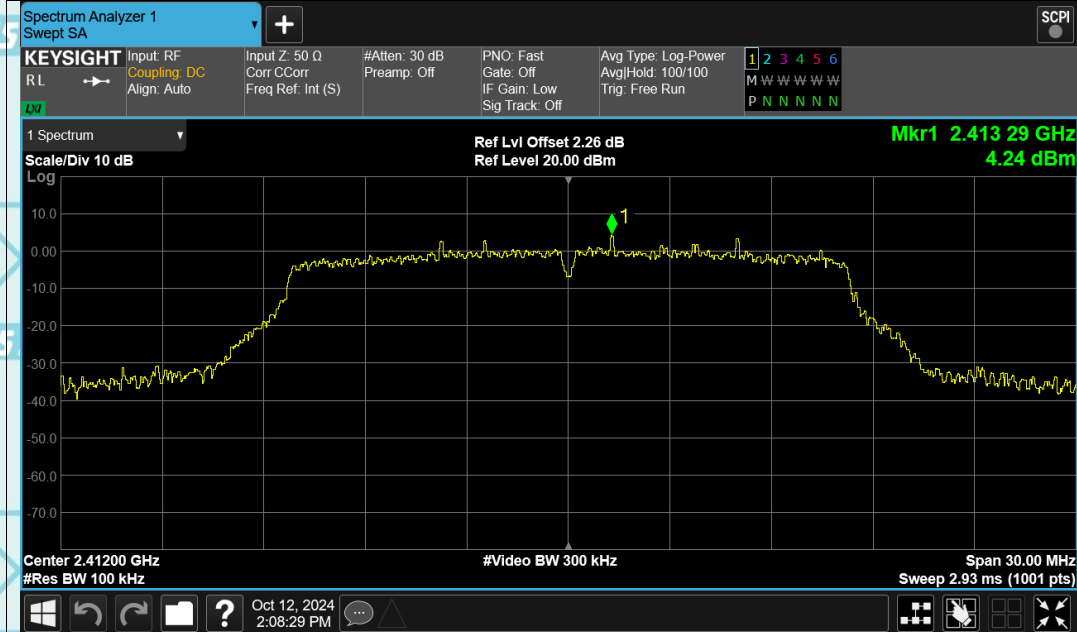


Tx. Spurious NVNT b 2462MHz Ant1 Emission

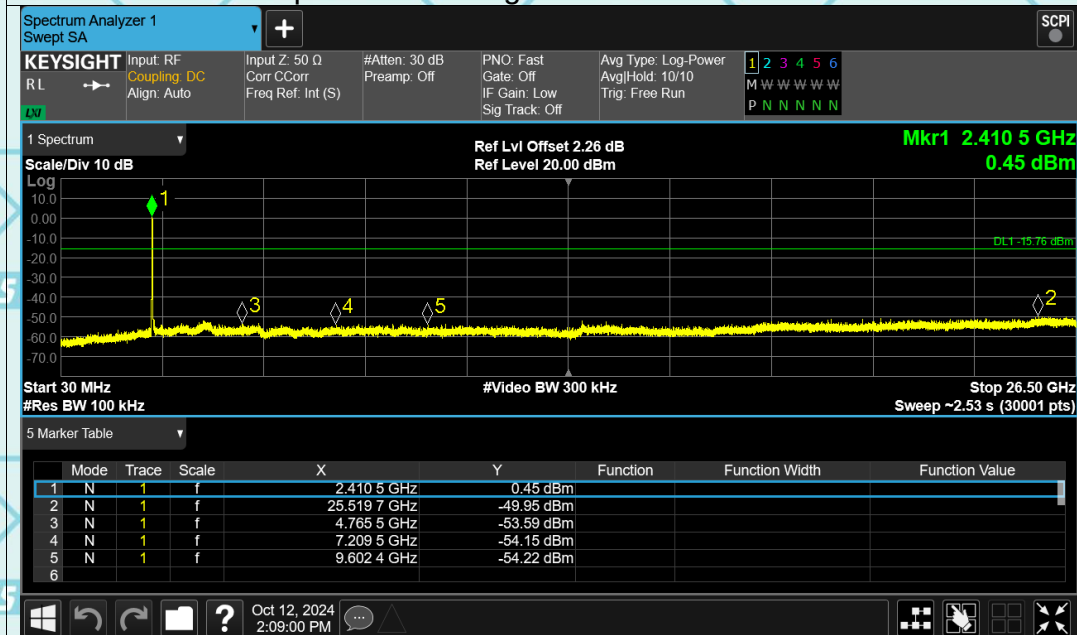


Report No.: WSCT-ANAB-R&E241100056A-Wi-Fi1

Tx. Spurious NVNT g 2412MHz Ant1 Ref

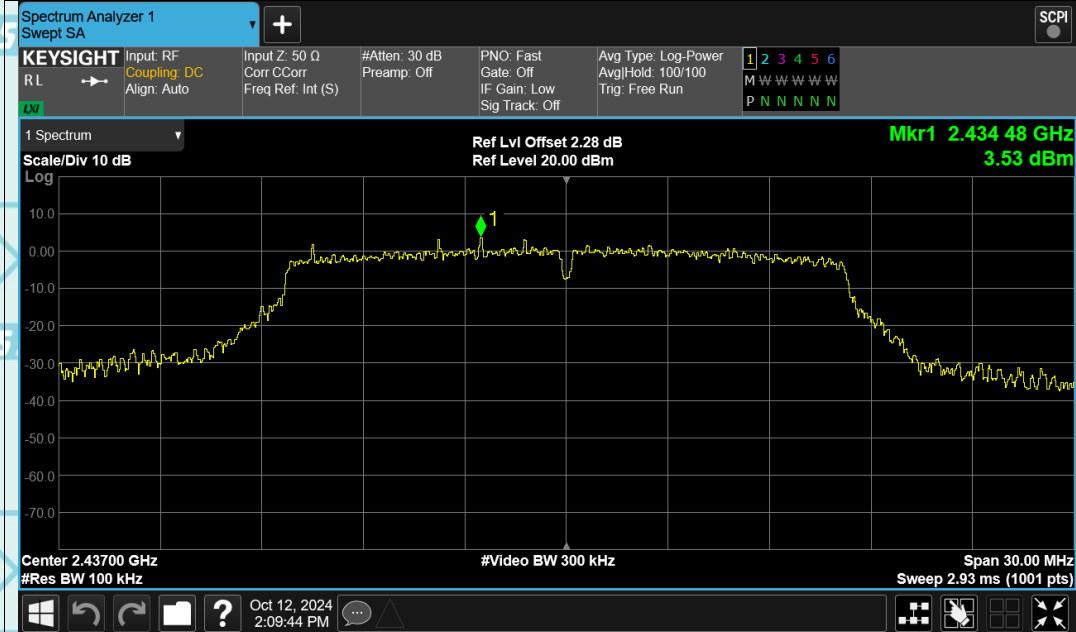


Tx. Spurious NVNT g 2412MHz Ant1 Emission

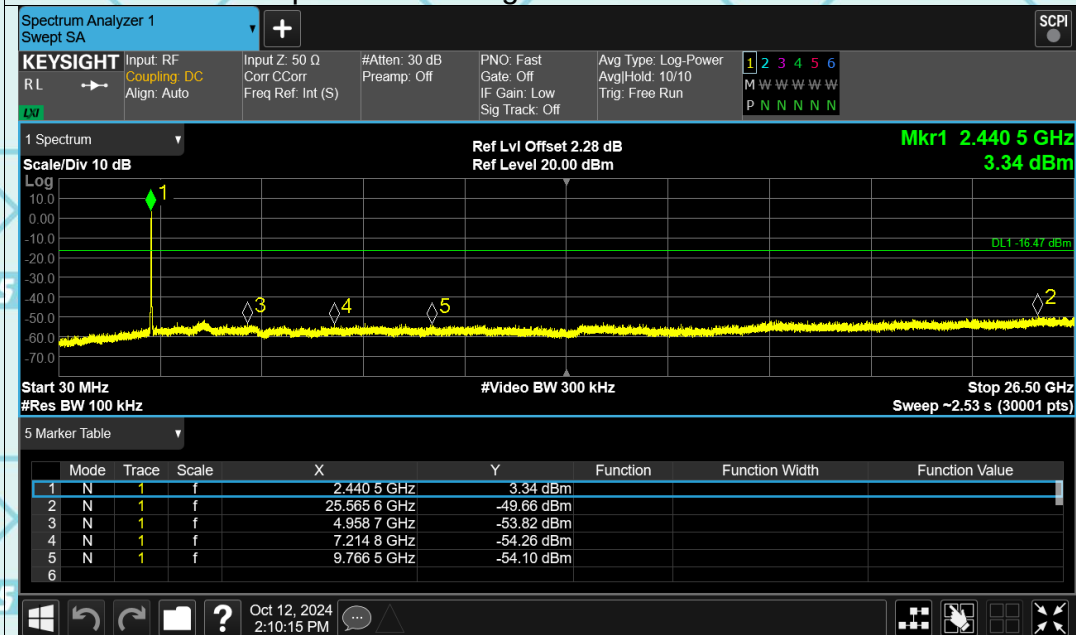


Report No.: WSCT-ANAB-R&E241100056A-Wi-Fi1

Tx. Spurious NVNT g 2437MHz Ant1 Ref

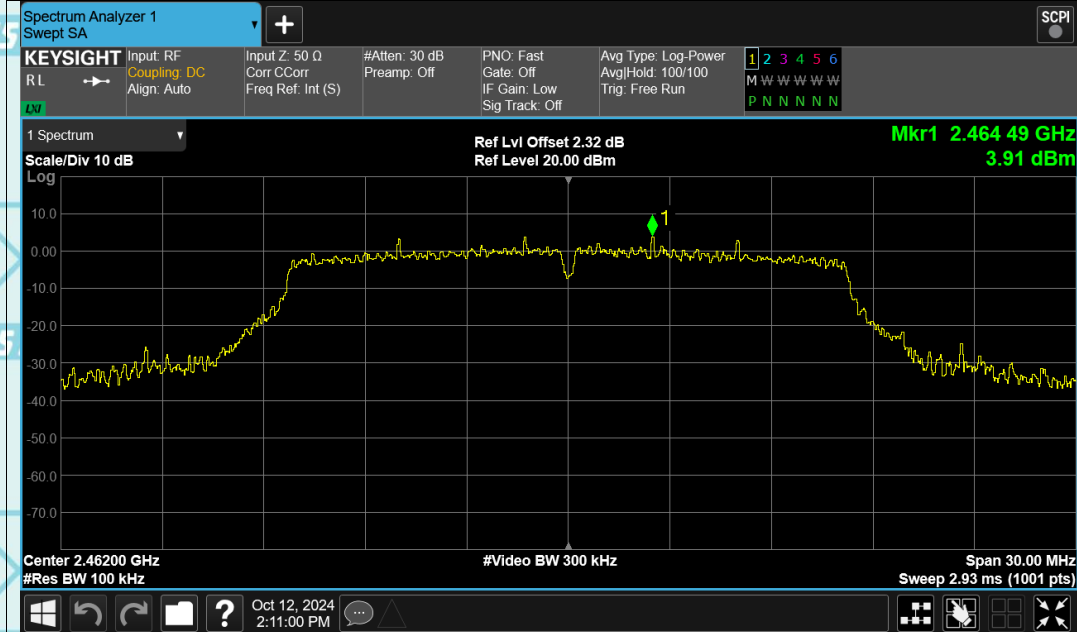


Tx. Spurious NVNT g 2437MHz Ant1 Emission

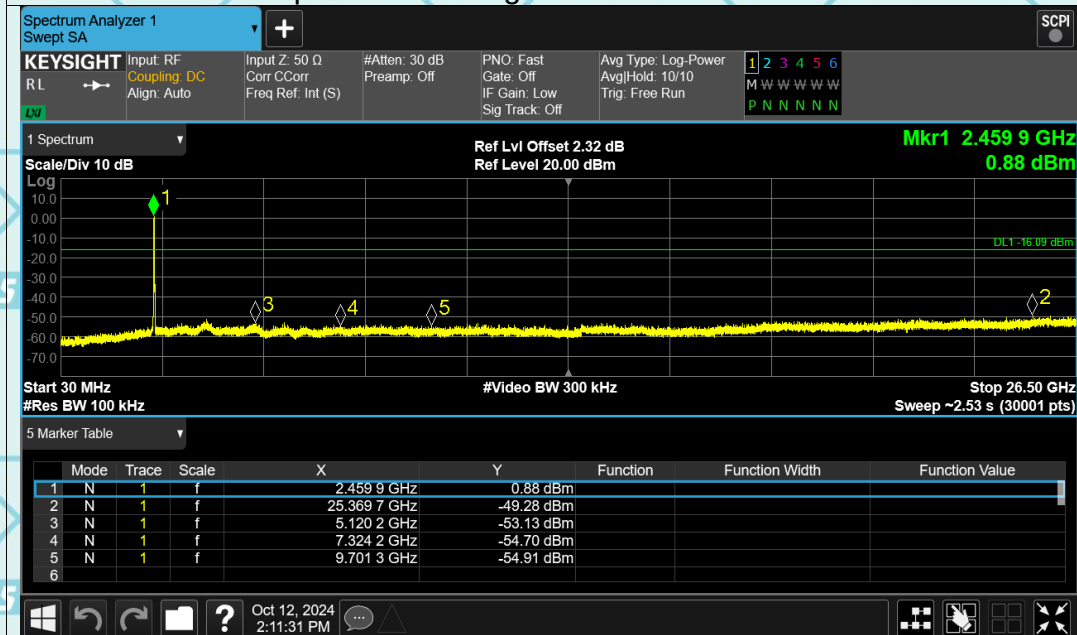


Report No.: WSCT-ANAB-R&E241100056A-Wi-Fi1

Tx. Spurious NVNT g 2462MHz Ant1 Ref

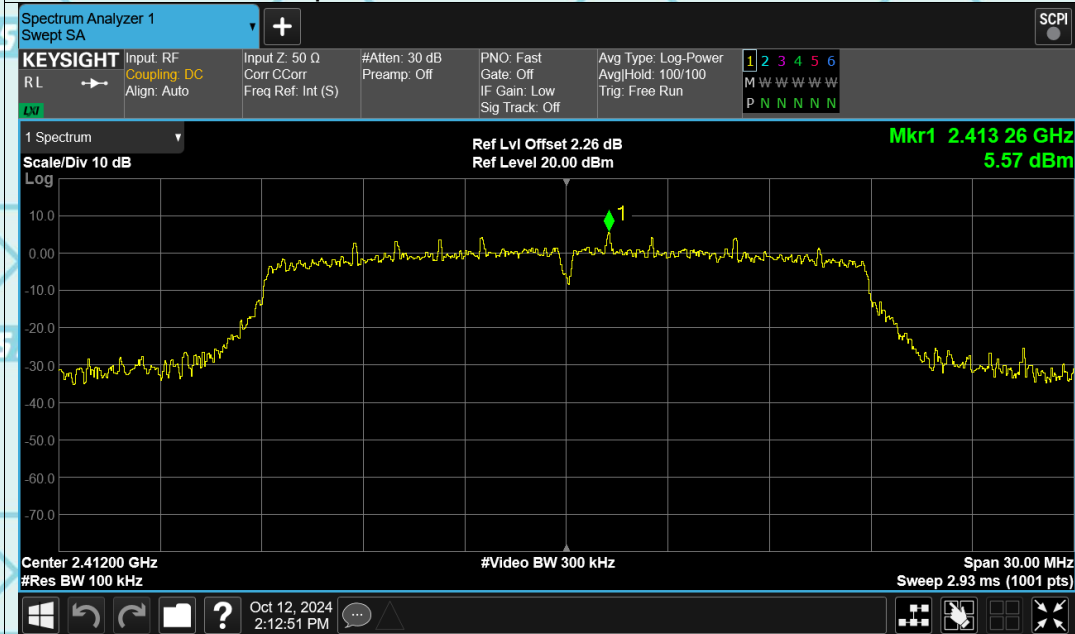


Tx. Spurious NVNT g 2462MHz Ant1 Emission

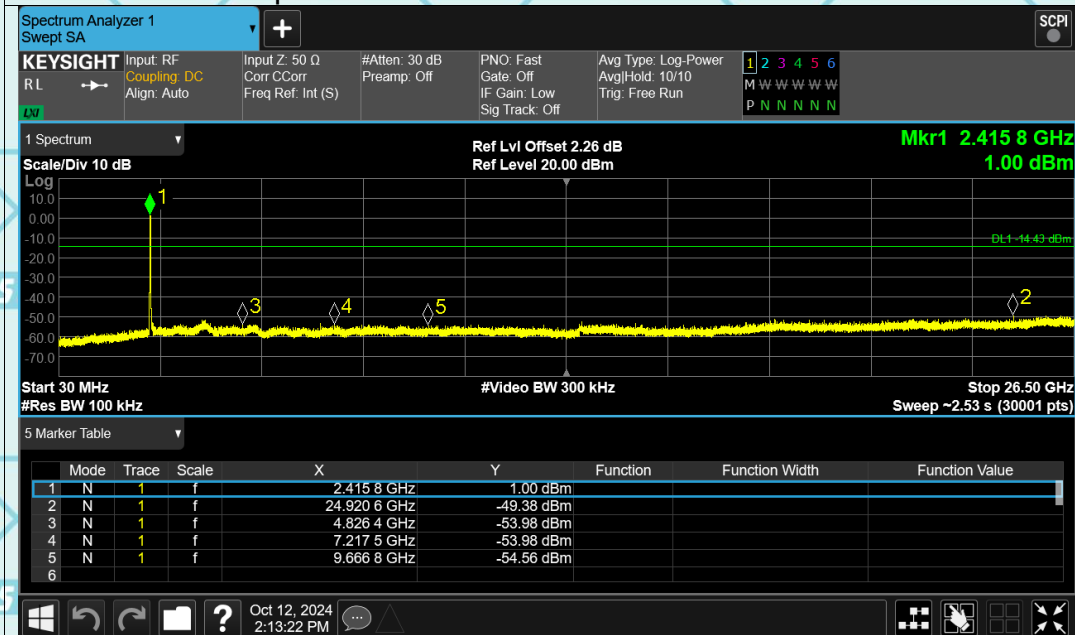


Report No.: WSCT-ANAB-R&E241100056A-Wi-Fi1

Tx. Spurious NVNT n20 2412MHz Ant1 Ref

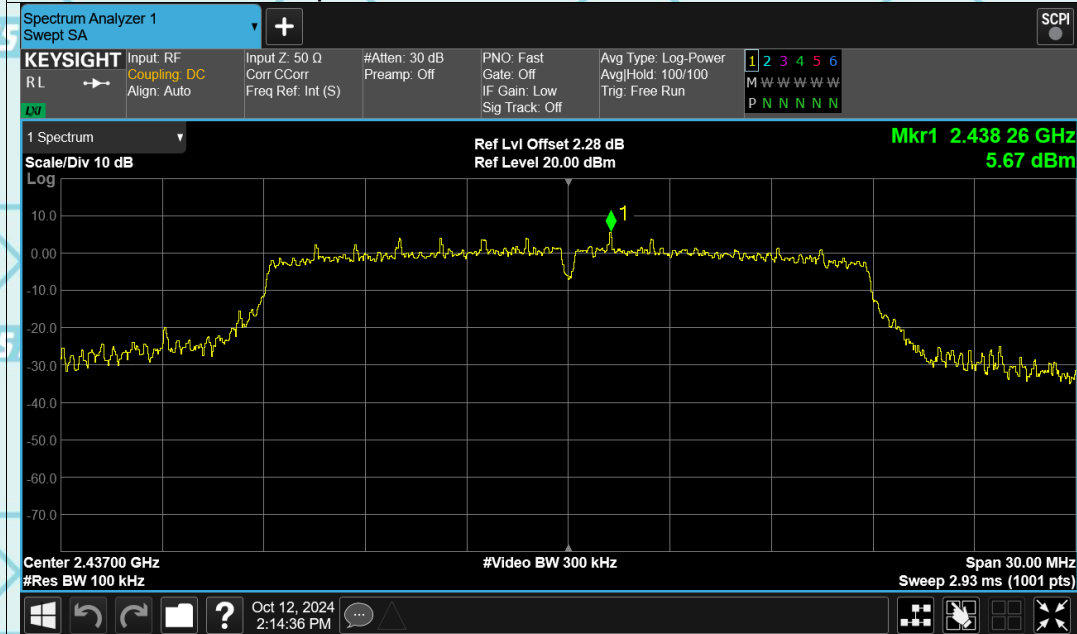


Tx. Spurious NVNT n20 2412MHz Ant1 Emission

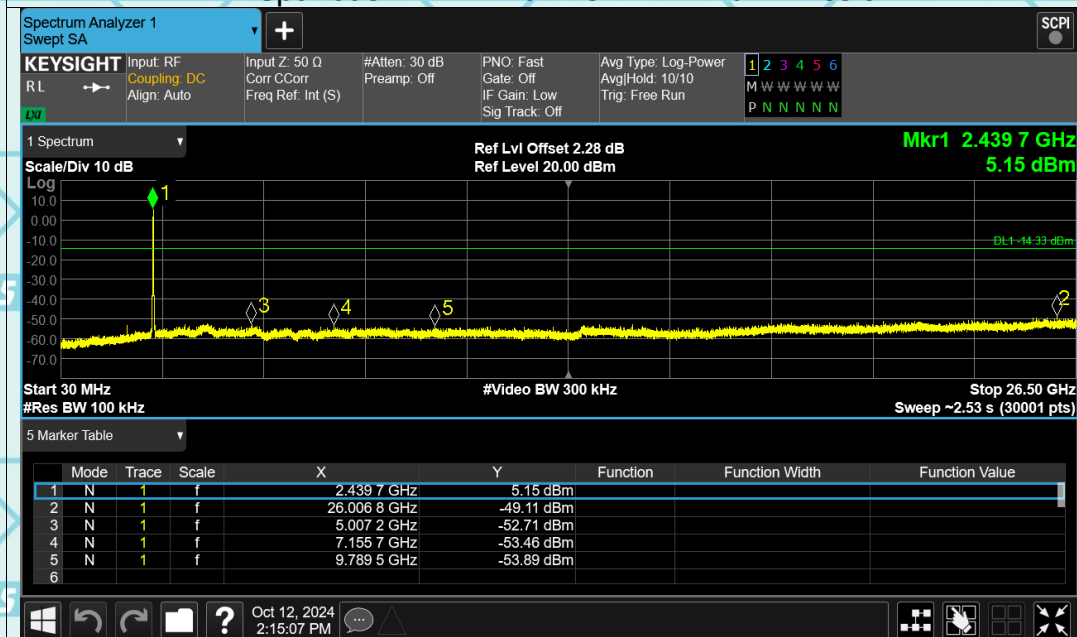


Report No.: WSCT-ANAB-R&E241100056A-Wi-Fi1

Tx. Spurious NVNT n20 2437MHz Ant1 Ref

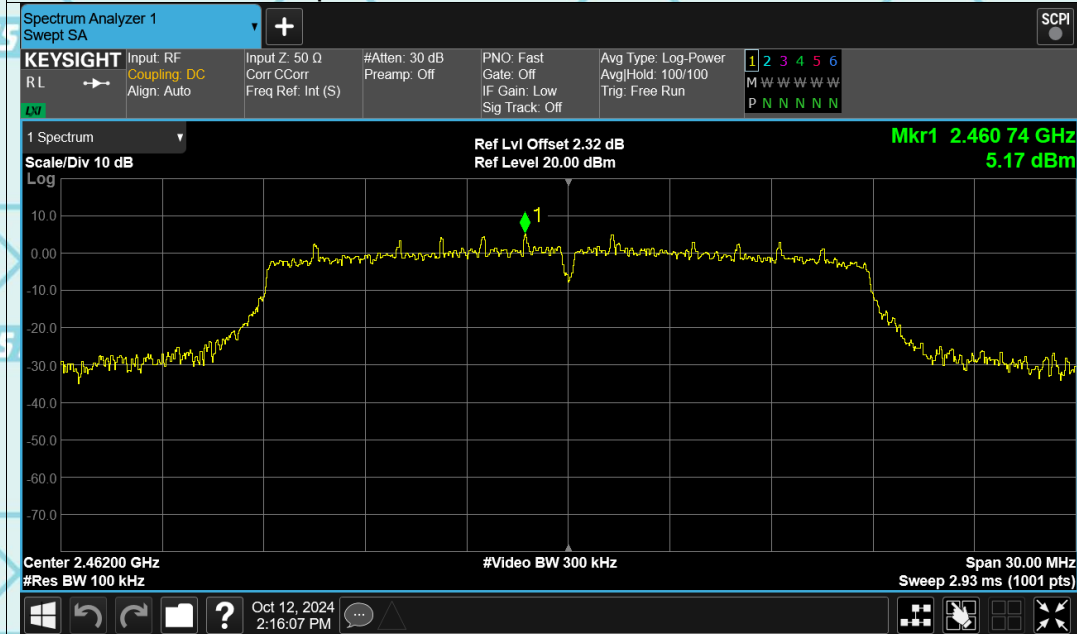


Tx. Spurious NVNT n20 2437MHz Ant1 Emission

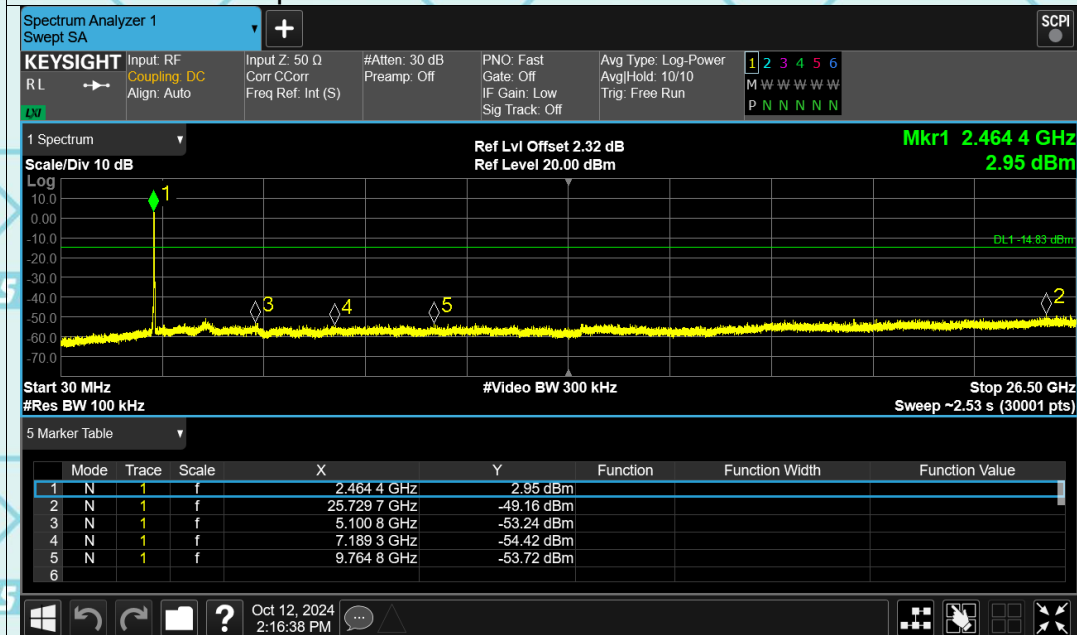


Report No.: WSCT-ANAB-R&E241100056A-Wi-Fi1

Tx. Spurious NVNT n20 2462MHz Ant1 Ref

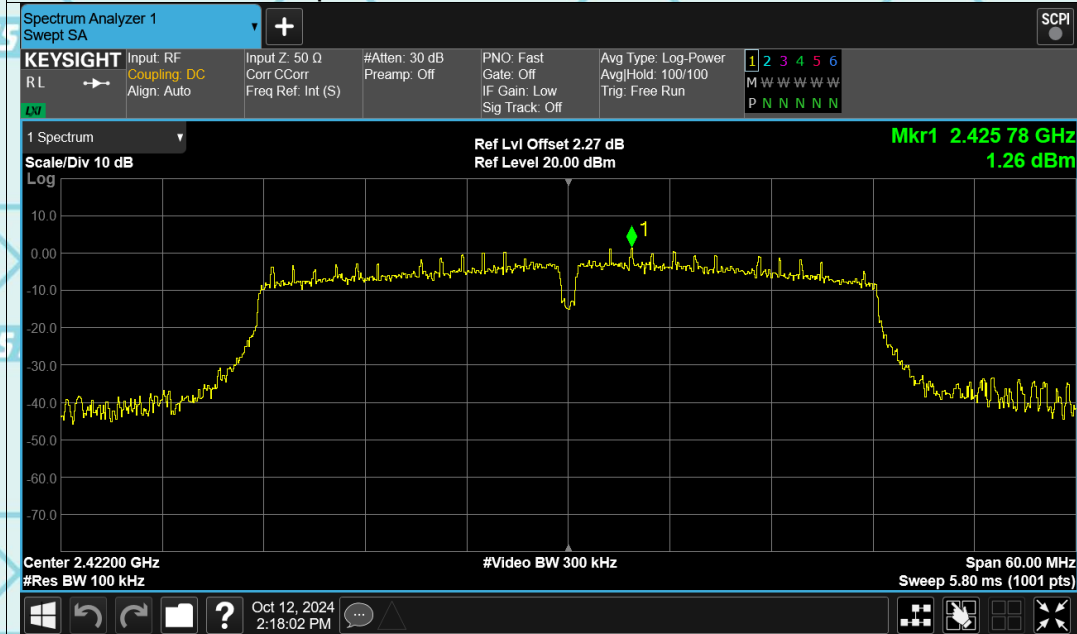


Tx. Spurious NVNT n20 2462MHz Ant1 Emission

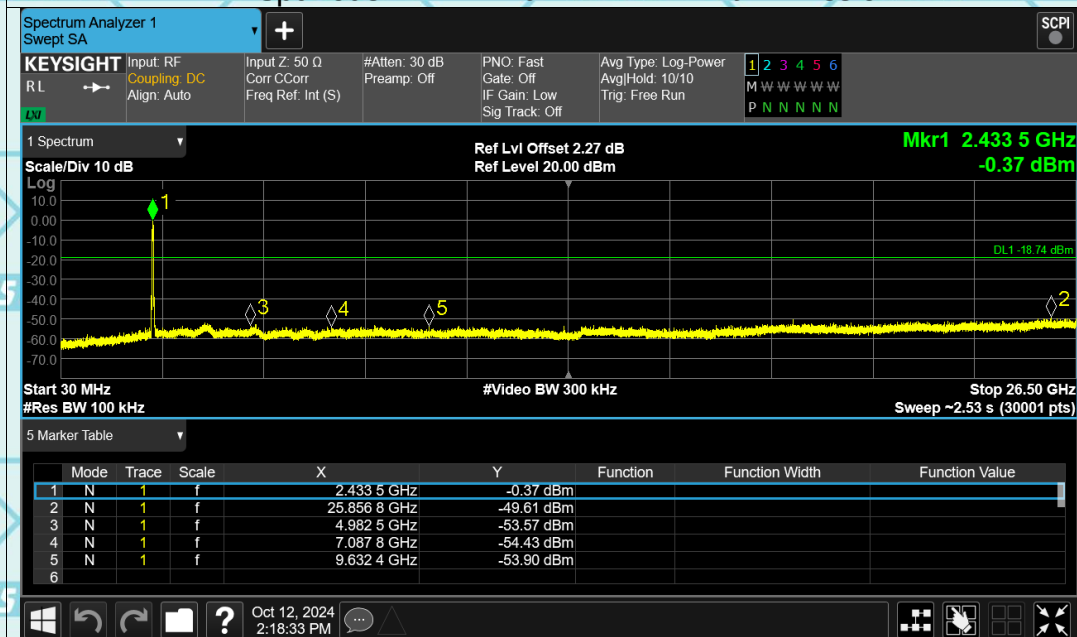


Report No.: WSCT-ANAB-R&E241100056A-Wi-Fi1

Tx. Spurious NVNT n40 2422MHz Ant1 Ref

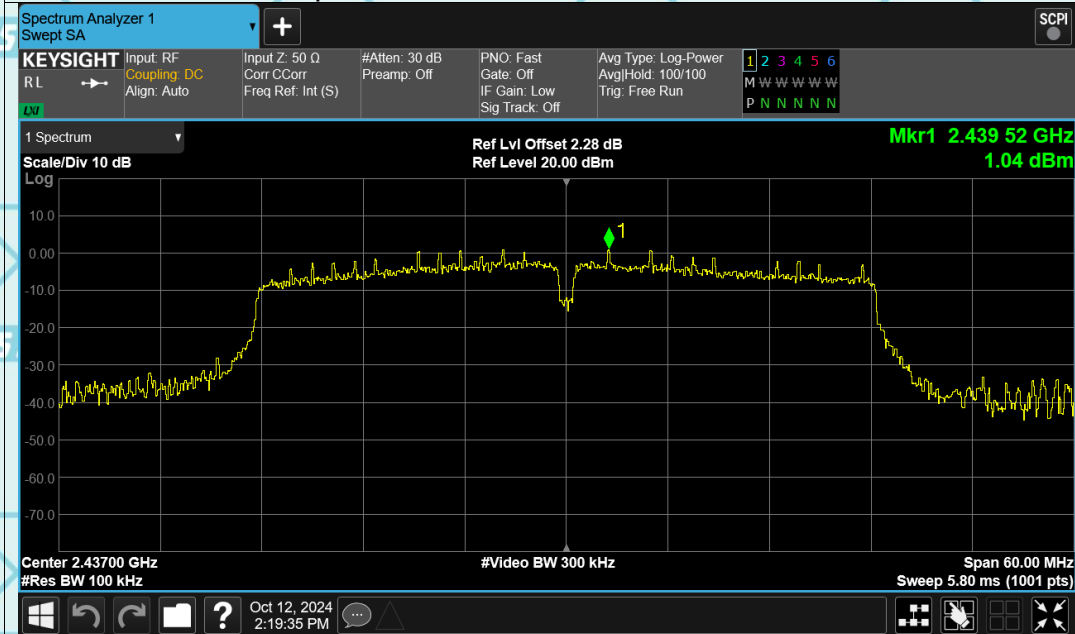


Tx. Spurious NVNT n40 2422MHz Ant1 Emission

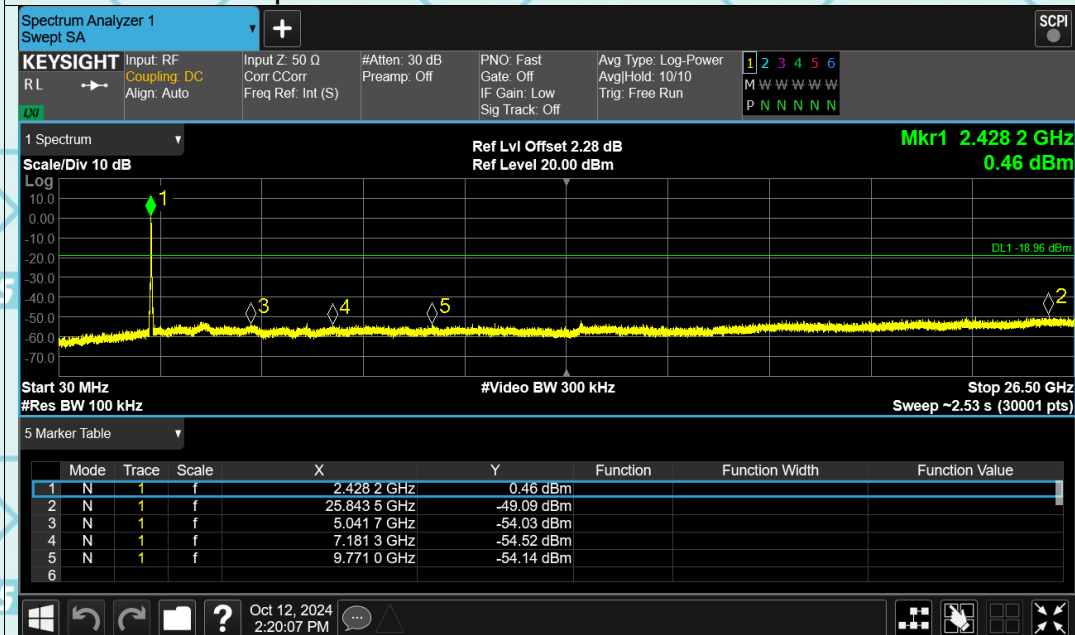


Report No.: WSCT-ANAB-R&E241100056A-Wi-Fi1

Tx. Spurious NVNT n40 2437MHz Ant1 Ref

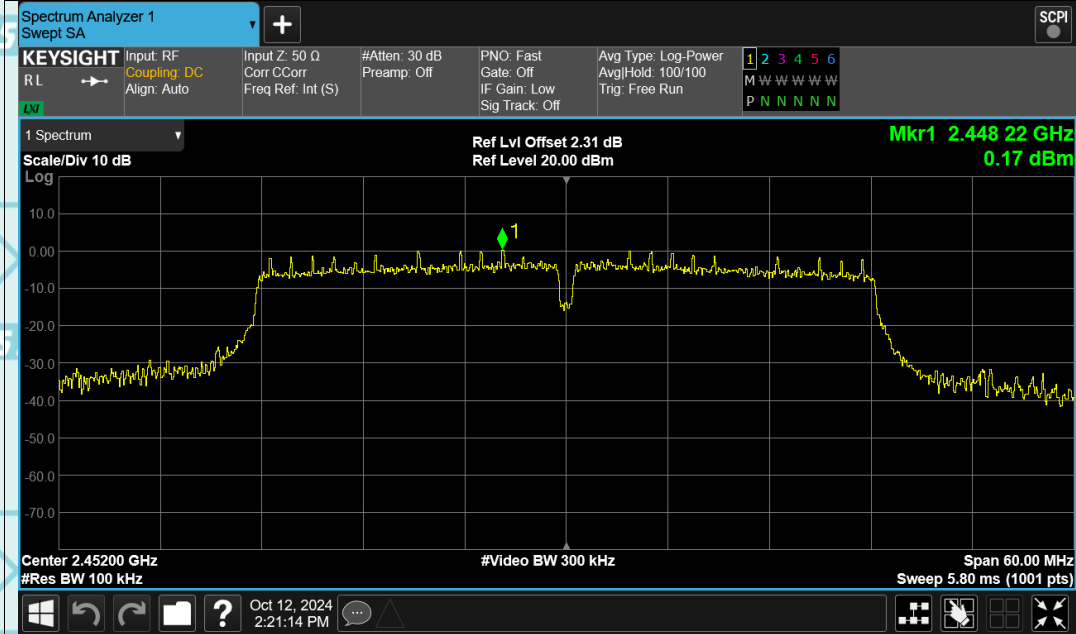


Tx. Spurious NVNT n40 2437MHz Ant1 Emission

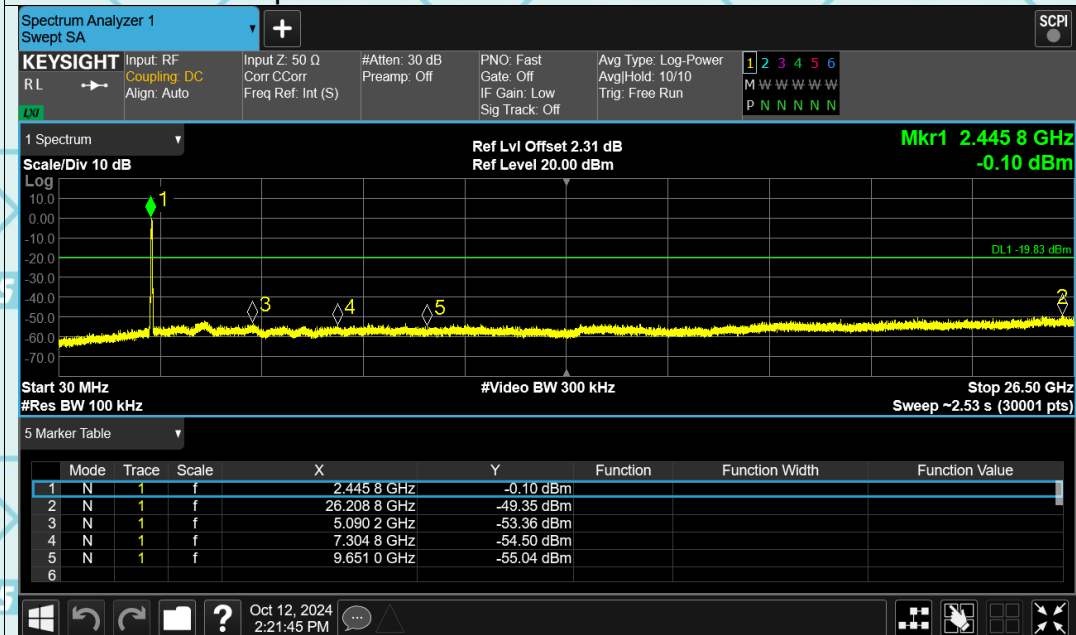


Report No.: WSCT-ANAB-R&E241100056A-Wi-Fi1

Tx. Spurious NVNT n40 2452MHz Ant1 Ref



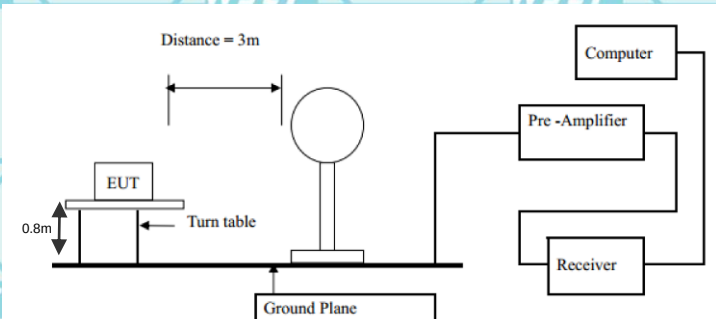
Tx. Spurious NVNT n40 2452MHz Ant1 Emission



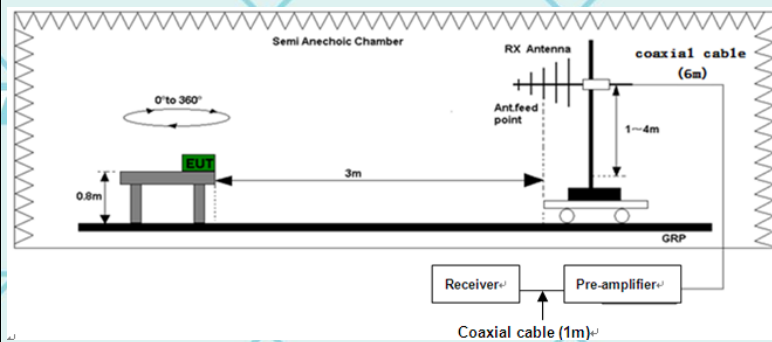
Report No.: WSCT-ANAB-R&E241100056A-Wi-Fi1

6.6. Radiated Spurious Emission Measurement

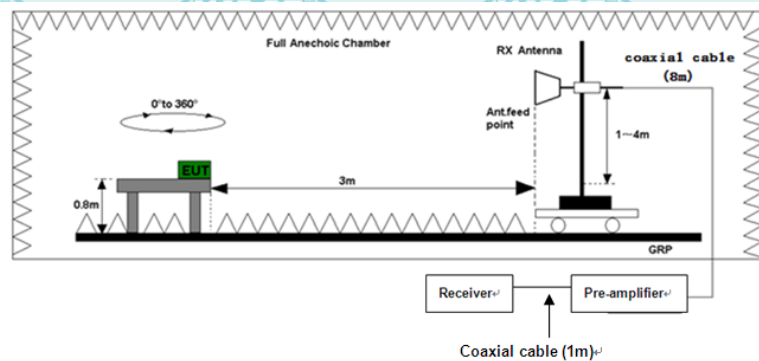
6.6.1. Test Specification

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:	Remark			
	Quasi-peak Value			
	Quasi-peak Value			
	Quasi-peak Value			
	Peak Value			
Test setup:	Frequency	Field Strength (microvolts/meter)	Measurement Distance (meters)	
	0.009-0.490	2400/F(KHz)	300	
	0.490-1.705	24000/F(KHz)	30	
	1.705-30	30	30	
	30-88	100	3	
Test setup:	88-216	150	3	
	216-960	200	3	
	Above 960	500	3	
	Frequency	Field Strength (microvolts/meter)	Measurement Distance (meters)	Detector
	Above 1GHz	500	3	Average
		5000	3	Peak
	For radiated emissions below 30MHz			
				
	30MHz to 1GHz			

Report No.: WSCT-ANAB-R&E241100056A-Wi-Fi1



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.

Report No.: WSCT-ANAB-R&E241100056A-Wi-Fi1

	3. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level 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. 5. Use the following spectrum analyzer settings: (1) Span shall wide enough to fully capture the emission being measured; (2) Set RBW=100 kHz for $f < 1$ GHz; VBW $\geq$ RBW; Sweep = auto; Detector function = peak; Trace = max hold; (3) Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement. 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.
Test results:	PASS

Note 1: The symbol of "--" in the table which means not application.

Note 2: For the test data above 1 GHz, According the ANSI C63.10-2013, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

Note 3: The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

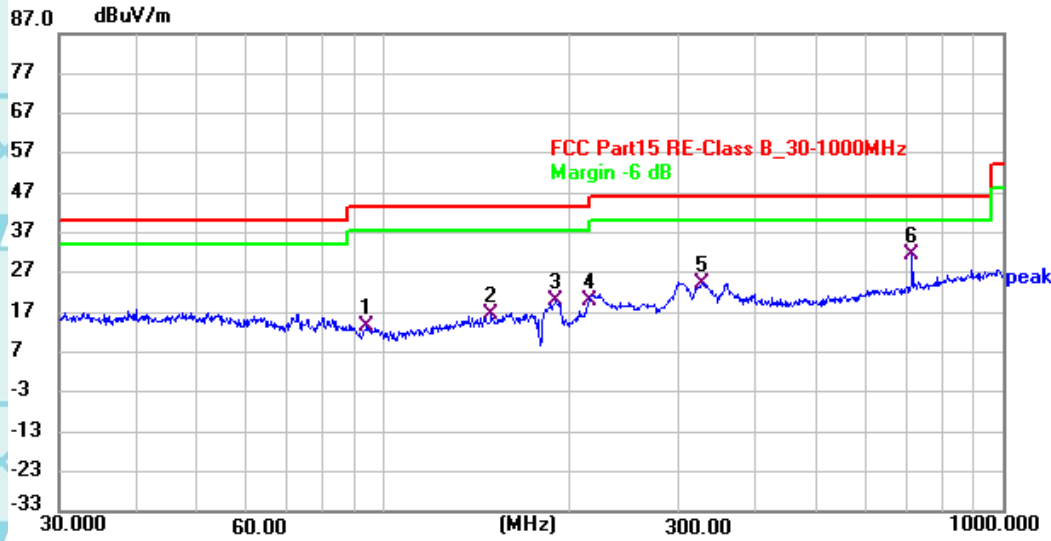
Note 4: The EUT is working in the Normal link mode below 1 GHz. All modes have been tested and normal link mode is worst.

Report No.: WSCT-ANAB-R&E241100056A-Wi-Fi1

6.6.2. Test Data(worst)

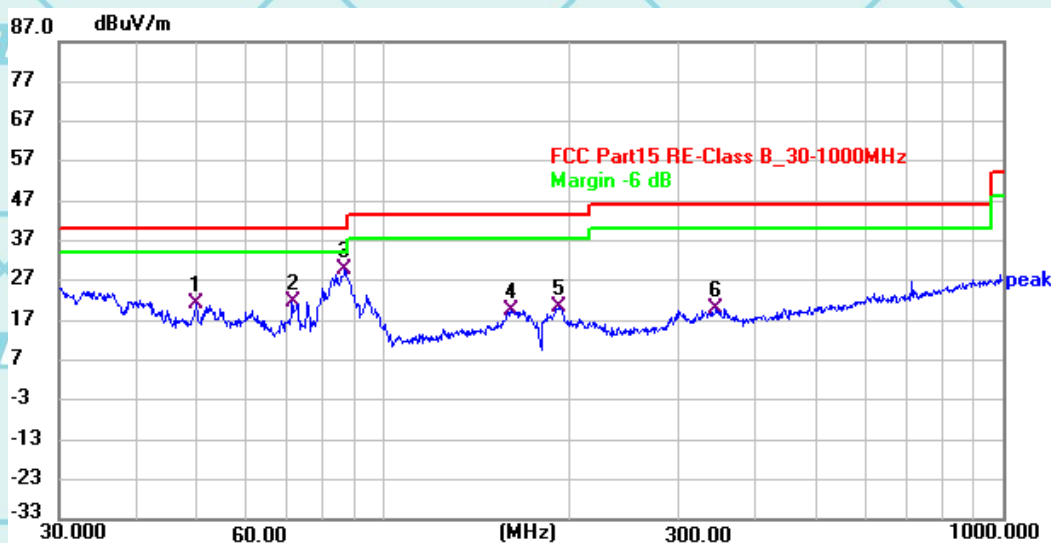
Please refer to following diagram for individual
Below 1GHz

Horizontal:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	94.3043	37.79	-24.11	13.68	43.50	-29.82	QP
2	149.6824	35.81	-19.50	16.31	43.50	-27.19	QP
3	191.0738	42.78	-23.00	19.78	43.50	-23.72	QP
4	215.9293	44.02	-24.04	19.98	43.50	-23.52	QP
5	327.1695	43.75	-19.36	24.39	46.00	-21.61	QP
6 *	714.1734	43.39	-12.07	31.32	46.00	-14.68	QP

Report No.: WSCT-ANAB-R&E241100056A-Wi-Fi1
Vertical:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	50.0566	40.22	-18.97	21.25	40.00	-18.75	QP
2	71.5806	44.31	-22.49	21.82	40.00	-18.18	QP
3 *	86.9210	53.82	-23.84	29.98	40.00	-10.02	QP
4	161.4034	39.12	-19.73	19.39	43.50	-24.11	QP
5	192.2500	43.42	-23.12	20.30	43.50	-23.20	QP
6	345.4438	39.06	-19.05	20.01	46.00	-25.99	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&E241100056A-Wi-Fi1

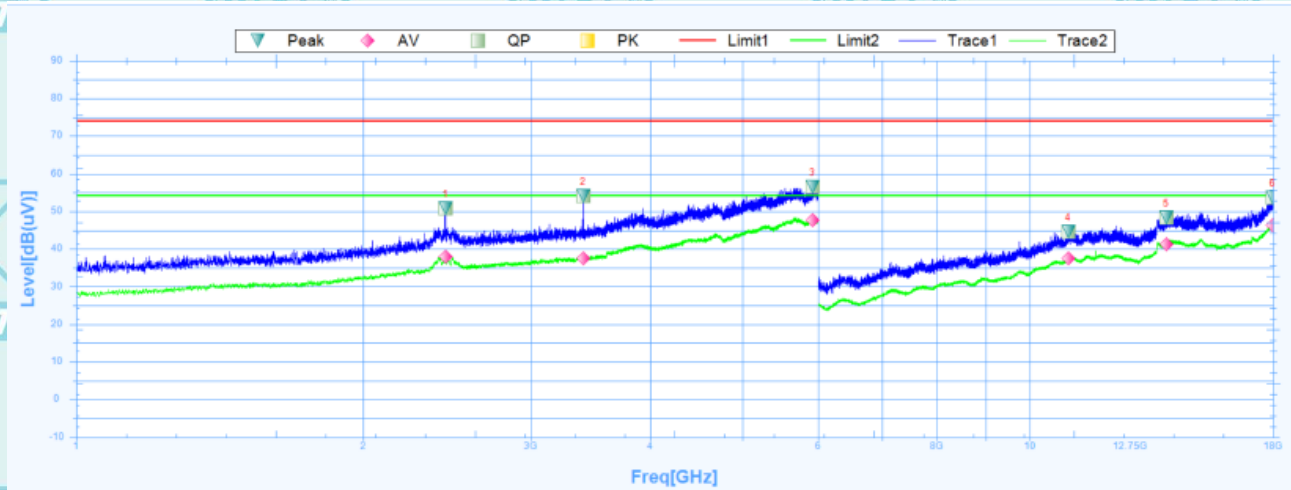
Above 1GHz

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 802.11b.
1 GHz to 18 GHz, ANT H 802.11b Low Channel

Horizontal:

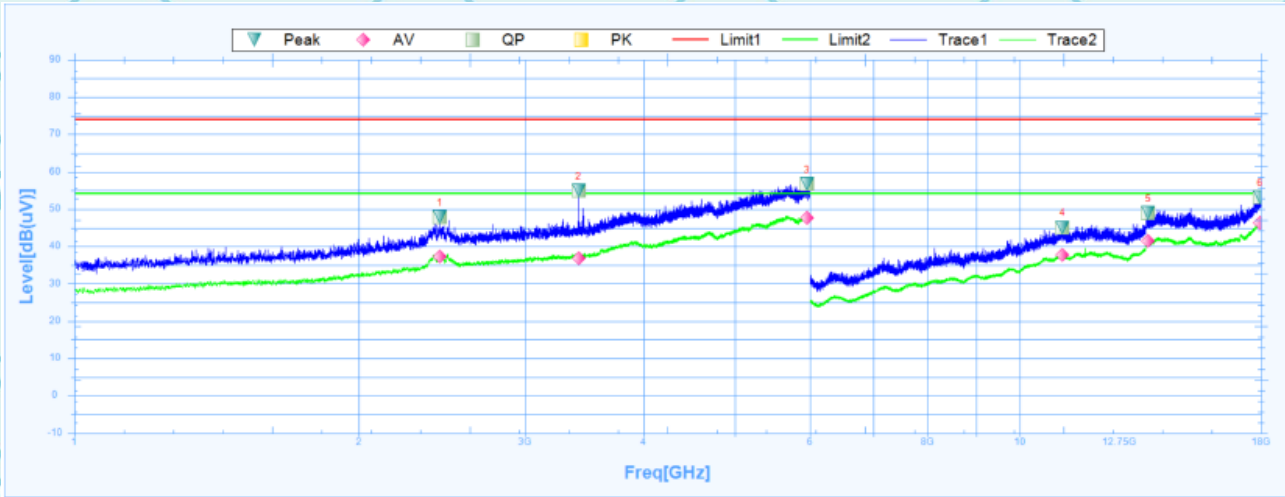


Susputed Data List

NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	2439.3750	50.73	27.39	23.34	74	-23.27	240.6	Horizontal	PK	Pass
1	2439.3750	37.86	27.39	10.47	54	-16.14	240.6	Horizontal	AV	Pass
2	3401.8750	54.14	28.44	25.7	74	-19.86	359.9	Horizontal	PK	Pass
2	3401.8750	37.57	28.44	9.13	54	-16.43	359.9	Horizontal	AV	Pass
3	5920.6250	56.45	32.67	23.78	74	-17.55	355.6	Horizontal	PK	Pass
3	5920.6250	47.68	32.67	15.01	54	-6.32	355.6	Horizontal	AV	Pass
4	10974.0000	44.62	15.47	29.15	74	-29.38	-0.1	Horizontal	PK	Pass
4	10974.0000	37.52	15.47	22.05	54	-16.48	-0.1	Horizontal	AV	Pass
5	13909.5000	48.32	18.85	29.47	74	-25.68	-0.1	Horizontal	PK	Pass
5	13909.5000	41.35	18.85	22.5	54	-12.65	-0.1	Horizontal	AV	Pass
6	17977.5000	53.61	23.77	29.84	74	-20.39	236.4	Horizontal	PK	Pass
6	17977.5000	46.39	23.77	22.62	54	-7.61	236.4	Horizontal	AV	Pass

Report No.: WSCT-ANAB-R&E241100056A-Wi-Fi1

Vertical :



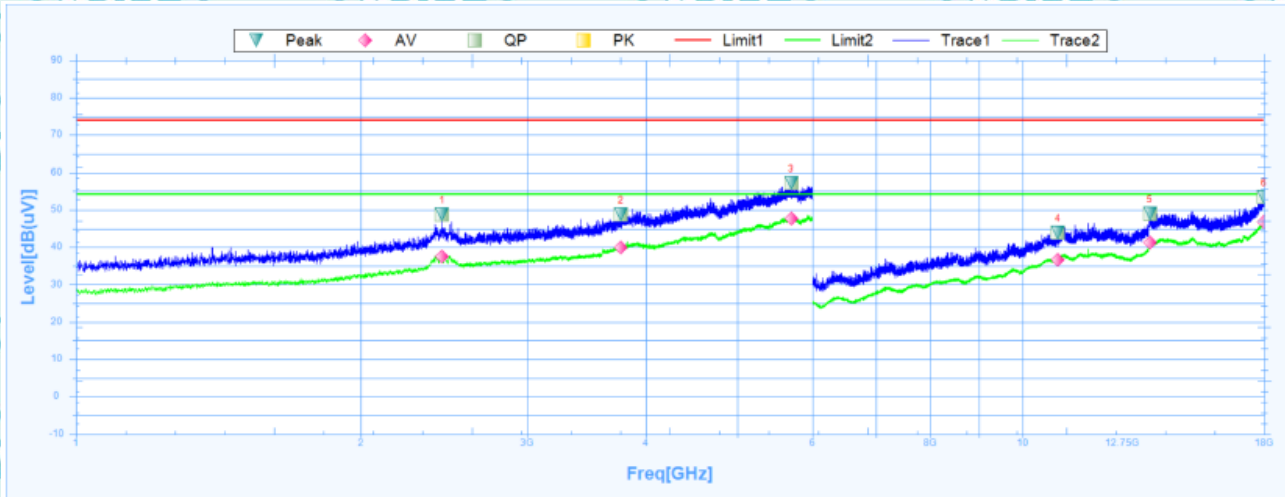
Susputed Data List

NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	2434.3750	47.86	27.38	20.48	74	-26.14	30.4	Vertical	PK	Pass
1	2434.3750	37.19	27.38	9.81	54	-16.81	30.4	Vertical	AV	Pass
2	3415.6250	54.94	28.45	26.49	74	-19.06	360	Vertical	PK	Pass
2	3415.6250	36.9	28.45	8.45	54	-17.1	360	Vertical	AV	Pass
3	5959.3750	56.66	32.74	23.92	74	-17.34	324.4	Vertical	PK	Pass
3	5959.3750	47.65	32.74	14.91	54	-6.35	324.4	Vertical	AV	Pass
4	11103.0000	45.12	15.87	29.25	74	-28.88	164.7	Vertical	PK	Pass
4	11103.0000	37.71	15.87	21.84	54	-16.29	164.7	Vertical	AV	Pass
5	13681.5000	49.04	18.2	30.84	74	-24.96	0	Vertical	PK	Pass
5	13681.5000	41.45	18.2	23.25	54	-12.55	0	Vertical	AV	Pass
6	17961.0000	53.16	23.65	29.51	74	-20.84	183.8	Vertical	PK	Pass
6	17961.0000	46.29	23.65	22.64	54	-7.71	183.8	Vertical	AV	Pass

Report No.: WSCT-ANAB-R&E241100056A-Wi-Fi1

1 GHz to 18 GHz, ANT H 802.11b Middle Channel

Horizontal:

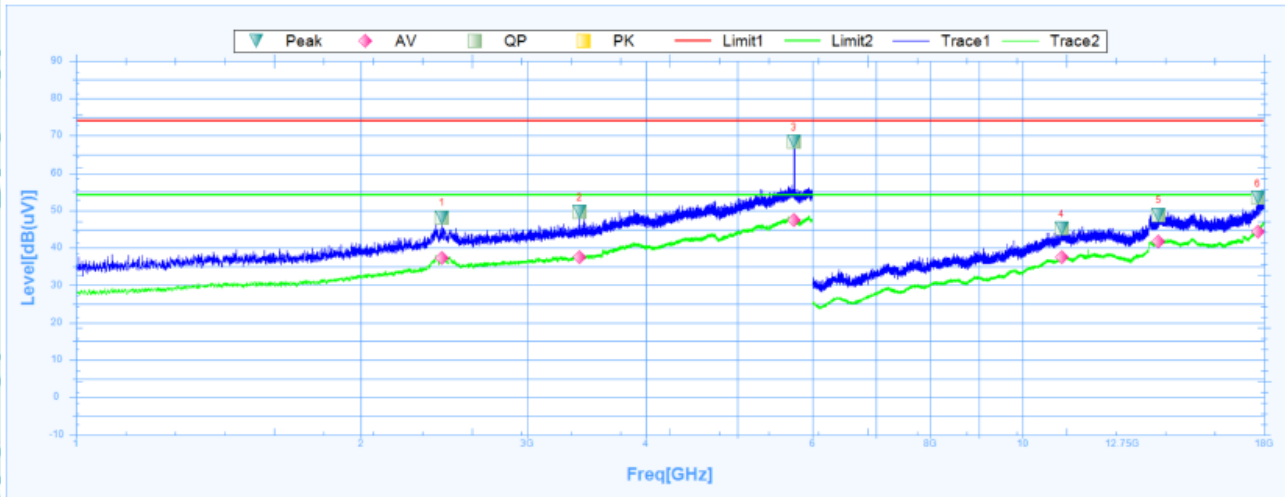


Susputed Data List

NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	2436.8750	48.73	27.39	21.34	74	-25.27	76.8	Horizontal	PK	Pass
1	2436.8750	37.59	27.39	10.2	54	-16.41	76.8	Horizontal	AV	Pass
2	3765.6250	48.85	29.14	19.71	74	-25.15	161.8	Horizontal	PK	Pass
2	3765.6250	39.93	29.14	10.79	54	-14.07	161.8	Horizontal	AV	Pass
3	5698.7500	57.18	32.32	24.86	74	-16.82	4.6	Horizontal	PK	Pass
3	5698.7500	47.65	32.32	15.33	54	-6.35	4.6	Horizontal	AV	Pass
4	10902.0000	43.86	15.07	28.79	74	-30.14	-0.1	Horizontal	PK	Pass
4	10902.0000	36.53	15.07	21.46	54	-17.47	-0.1	Horizontal	AV	Pass
5	13633.5000	48.89	18.07	30.82	74	-25.11	-0.1	Horizontal	PK	Pass
5	13633.5000	41.36	18.07	23.29	54	-12.64	-0.1	Horizontal	AV	Pass
6	17994.0000	53.49	23.89	29.6	74	-20.51	290.2	Horizontal	PK	Pass
6	17994.0000	46.75	23.89	22.86	54	-7.25	290.2	Horizontal	AV	Pass

Report No.: WSCT-ANAB-R&E241100056A-Wi-Fi1

Vertical :



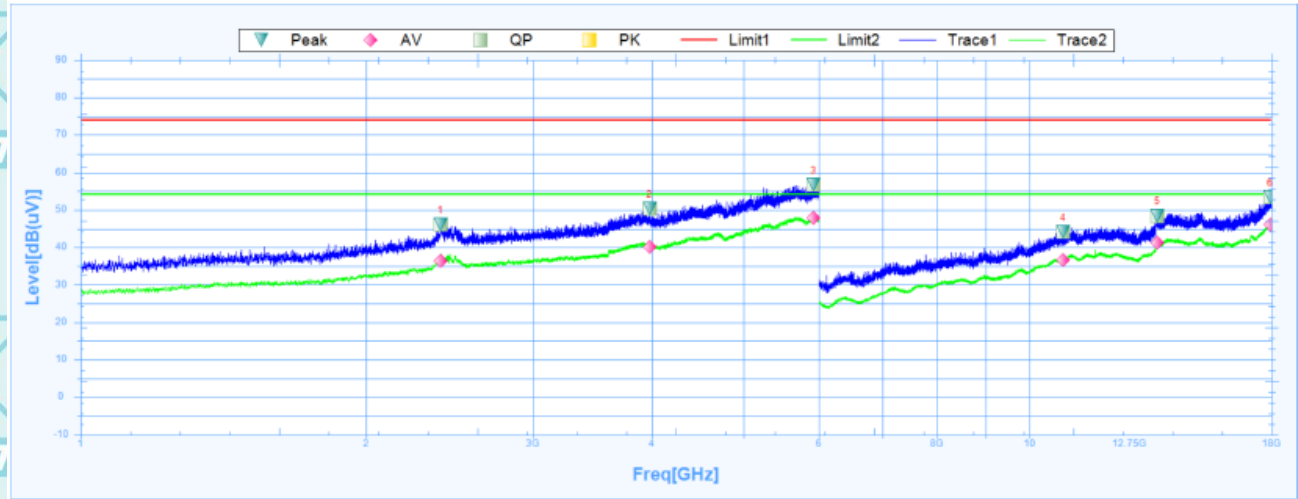
Susputed Data List

NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	2435.6250	48.21	27.38	20.83	74	-25.79	-0.1	Vertical	PK	Pass
1	2435.6250	37.29	27.38	9.91	54	-16.71	-0.1	Vertical	AV	Pass
2	3405.6250	49.69	28.44	21.25	74	-24.31	-0.1	Vertical	PK	Pass
2	3405.6250	37.47	28.44	9.03	54	-16.53	-0.1	Vertical	AV	Pass
3	5736.2500	68.41	32.38	36.03	74	-5.59	146.7	Vertical	PK	Pass
3	5736.2500	47.44	32.38	15.06	54	-6.56	146.7	Vertical	AV	Pass
4	10996.5000	45.3	15.6	29.7	74	-28.7	351.1	Vertical	PK	Pass
4	10996.5000	37.59	15.6	21.99	54	-16.41	351.1	Vertical	AV	Pass
5	13929.0000	48.87	18.92	29.95	74	-25.13	95	Vertical	PK	Pass
5	13929.0000	41.75	18.92	22.83	54	-12.25	95	Vertical	AV	Pass
6	17722.5000	53.41	22.12	31.29	74	-20.59	75.8	Vertical	PK	Pass
6	17722.5000	44.29	22.12	22.17	54	-9.71	75.8	Vertical	AV	Pass

Report No.: WSCT-ANAB-R&E241100056A-Wi-Fi1

1 GHz to 18 GHz, ANT H 802.11b High Channel

Horizontal:

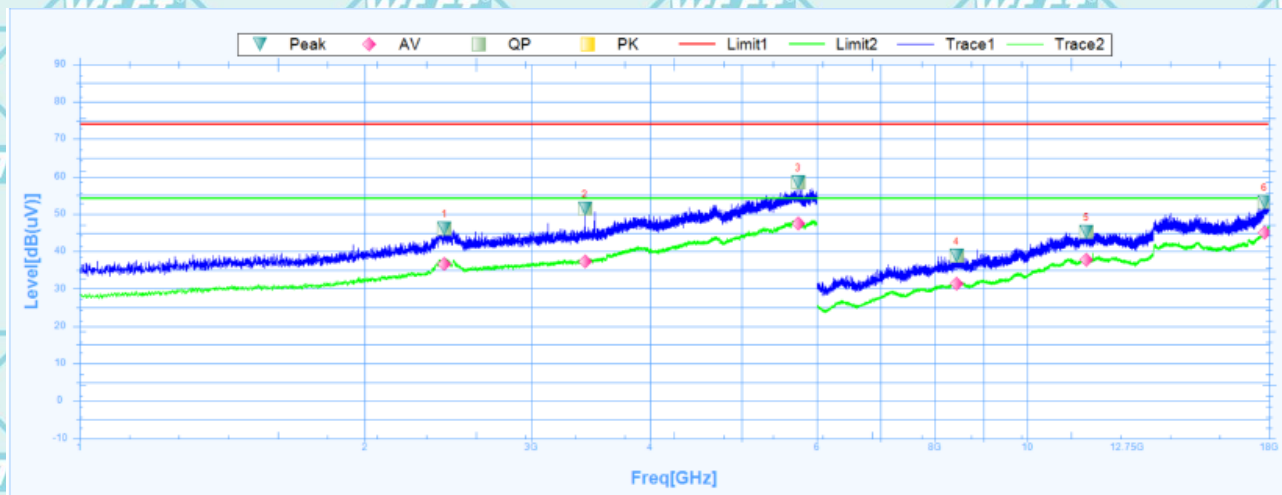


Susputed Data List

NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	2395.0000	46.06	27.24	18.82	74	-27.94	222.2	Horizontal	PK	Pass
1	2395.0000	36.47	27.24	9.23	54	-17.53	222.2	Horizontal	AV	Pass
2	3978.1250	50.21	29.65	20.56	74	-23.79	0.1	Horizontal	PK	Pass
2	3978.1250	40.21	29.65	10.56	54	-13.79	0.1	Horizontal	AV	Pass
3	5925.6250	56.68	32.68	24	74	-17.32	78.7	Horizontal	PK	Pass
3	5925.6250	47.81	32.68	15.13	54	-6.19	78.7	Horizontal	AV	Pass
4	10855.5000	44.14	14.87	29.27	74	-29.86	222.8	Horizontal	PK	Pass
4	10855.5000	36.58	14.87	21.71	54	-17.42	222.8	Horizontal	AV	Pass
5	13644.0000	48.43	18.09	30.34	74	-25.57	35.1	Horizontal	PK	Pass
5	13644.0000	41.36	18.09	23.27	54	-12.64	35.1	Horizontal	AV	Pass
6	17937.0000	53.34	23.5	29.84	74	-20.66	360	Horizontal	PK	Pass
6	17937.0000	46.21	23.5	22.71	54	-7.79	360	Horizontal	AV	Pass

Report No.: WSCT-ANAB-R&E241100056A-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	2426.2500	46.06	27.35	18.71	74	-27.94	151.5	Vertical	PK	Pass
1	2426.2500	36.58	27.35	9.23	54	-17.42	151.5	Vertical	AV	Pass
2	3416.2500	51.47	28.45	23.02	74	-22.53	214.9	Vertical	PK	Pass
2	3416.2500	37.31	28.45	8.86	54	-16.69	214.9	Vertical	AV	Pass
3	5735.6250	58.53	32.38	26.15	74	-15.47	271	Vertical	PK	Pass
3	5735.6250	47.46	32.38	15.08	54	-6.54	271	Vertical	AV	Pass
4	8425.5000	38.83	9.12	29.71	74	-35.17	277.8	Vertical	PK	Pass
4	8425.5000	31.22	9.12	22.1	54	-22.78	277.8	Vertical	AV	Pass
5	11548.5000	45.33	16.22	29.11	74	-28.67	303	Vertical	PK	Pass
5	11548.5000	37.8	16.22	21.58	54	-16.2	303	Vertical	AV	Pass
6	17802.0000	53.26	22.63	30.63	74	-20.74	161.9	Vertical	PK	Pass
6	17802.0000	45.08	22.63	22.45	54	-8.92	161.9	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.

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6.6.3. Restricted Bands Requirements

Test result for 802.11b Mode (the worst case)

Frequency	Reading	Correct Factor	Emission Level	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel							
2390	61.80	-8.76	53.04	74	20.96	H	PK
2390	53.73	-8.76	44.97	54	9.03	H	AV
2390	63.73	-8.73	55.00	74	19.00	V	PK
2390	57.11	-8.73	48.38	54	5.62	V	AV
High Channel							
2483.5	64.25	-8.76	55.49	74	18.51	H	PK
2483.5	54.91	-8.76	46.15	54	7.85	H	AV
2483.5	59.66	-8.73	50.93	74	23.07	V	PK
2483.5	57.46	-8.73	48.73	54	5.27	V	AV

Note: Freq. = Emission frequency in MHz

Reading level (dBμV) = Receiver reading

Corr. Factor (dB) = Attenuation factor + Cable loss

Level (dBμV) = Reading level (dBμV) + Corr. Factor (dB)

Limit (dBμV) = Limit stated in standard

Margin (dB) = Level (dBμV) – Limits (dBμV)

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7. Test Setup Photographs

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

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