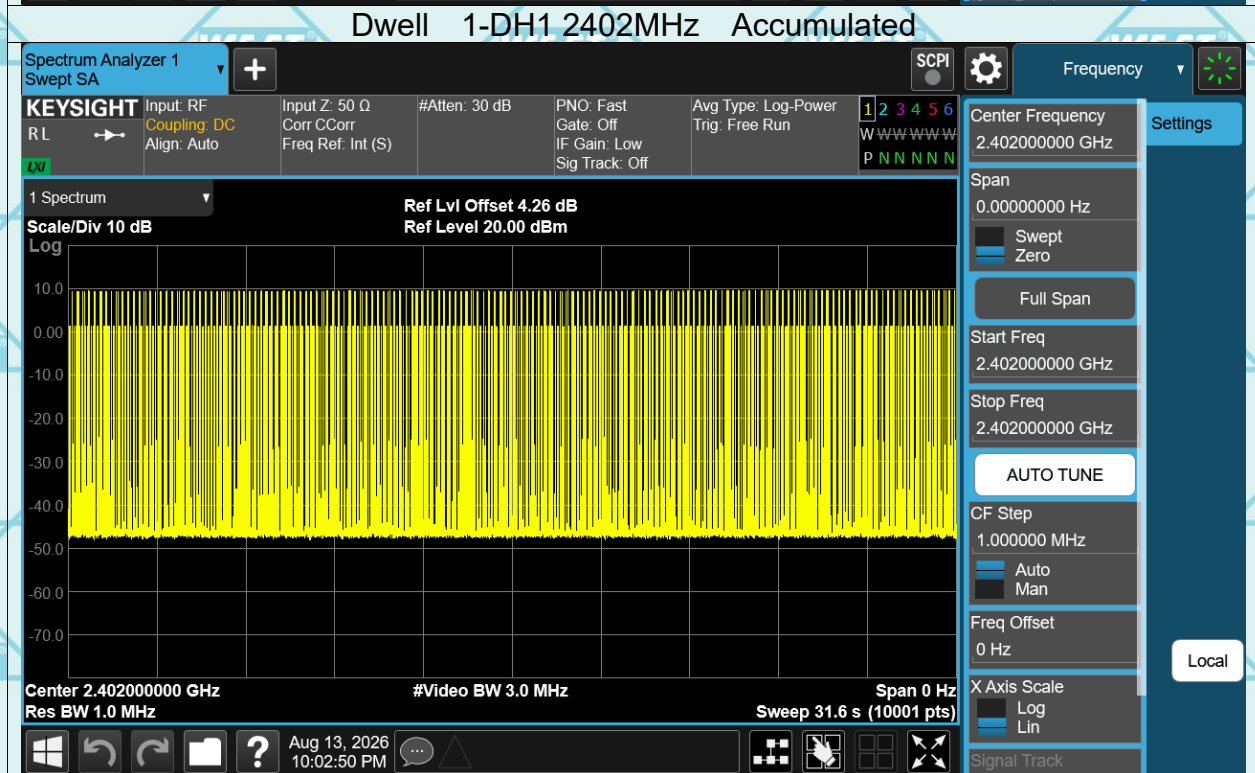
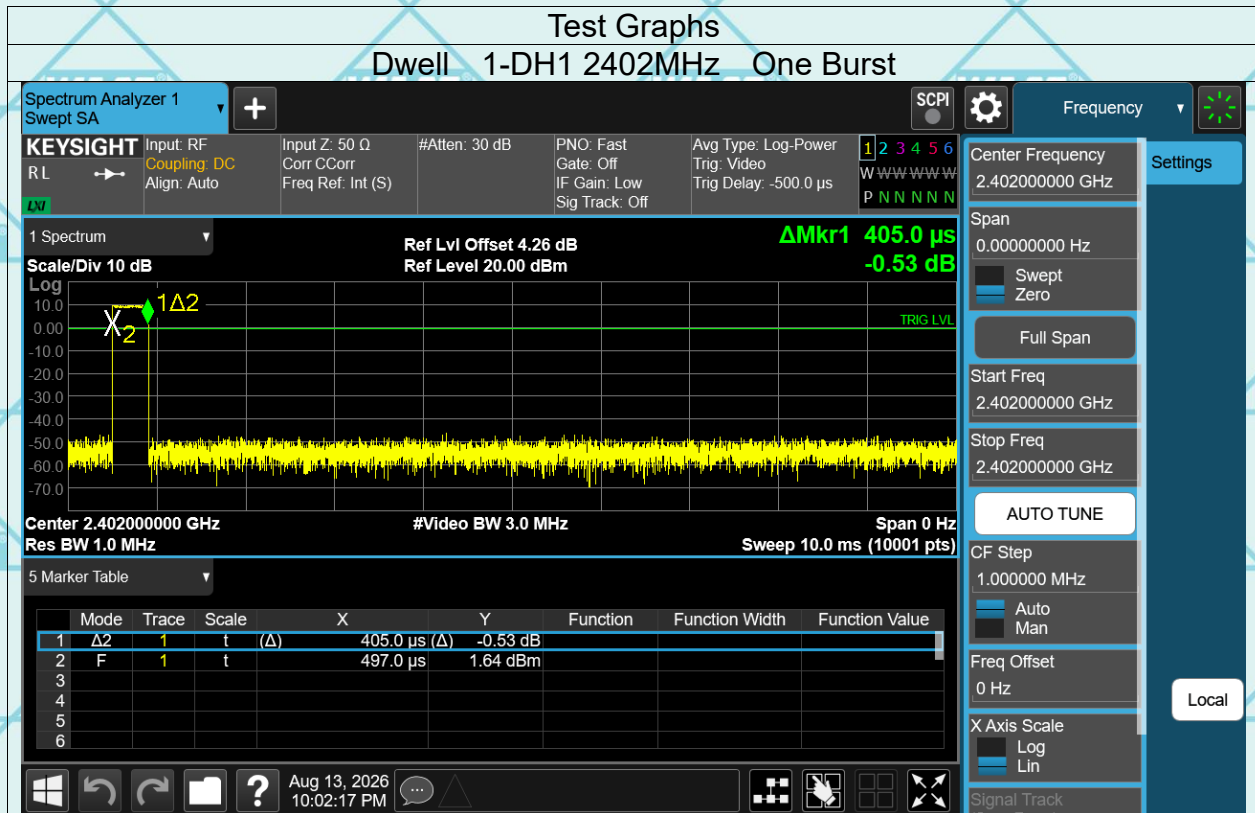
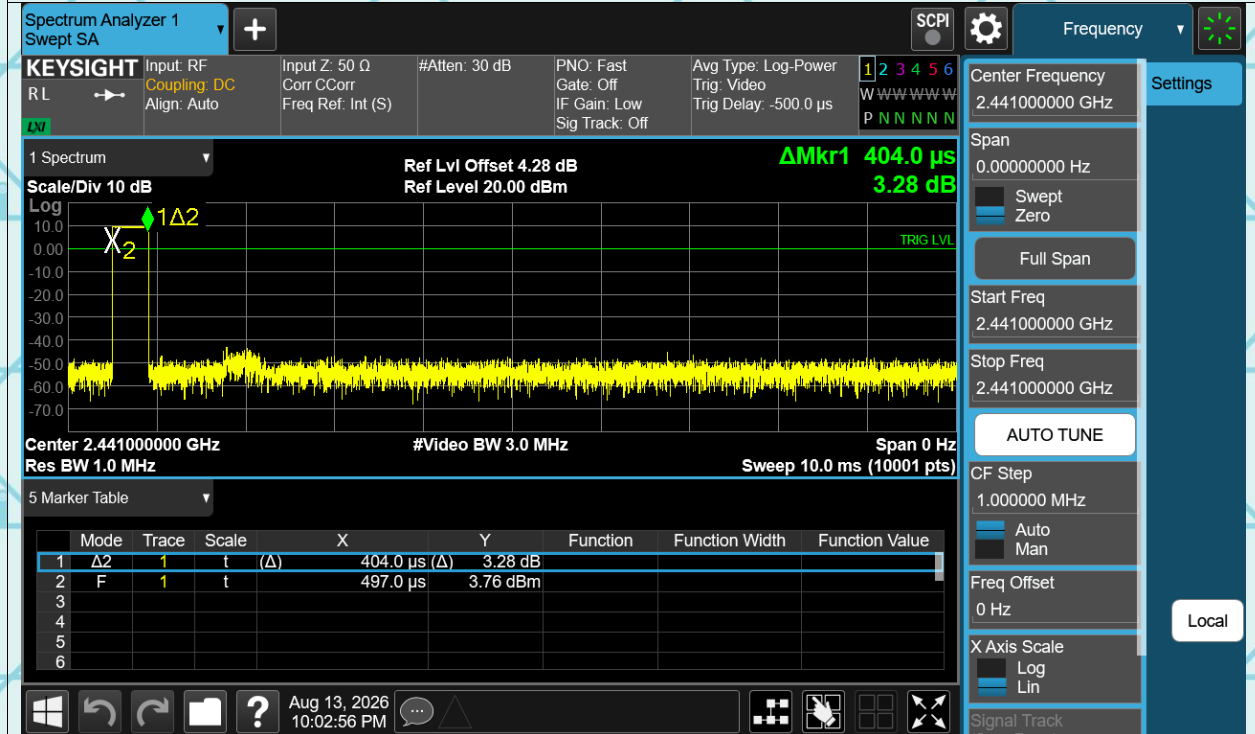
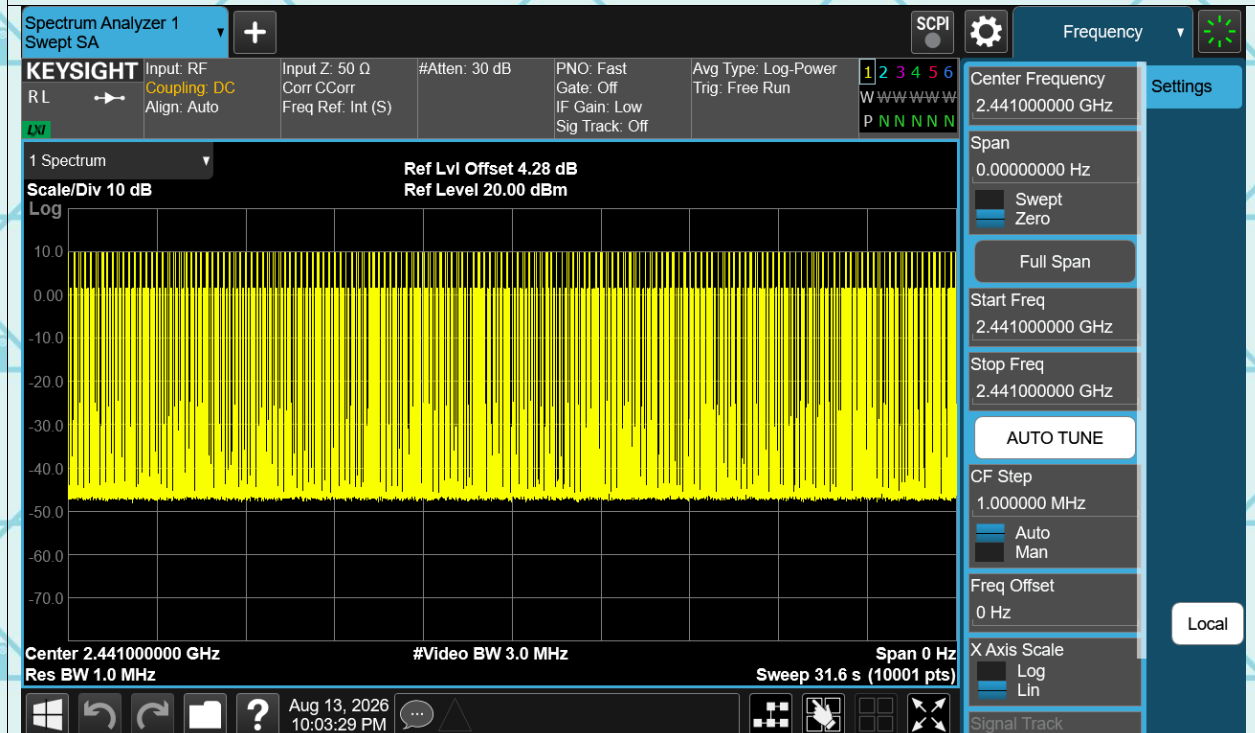




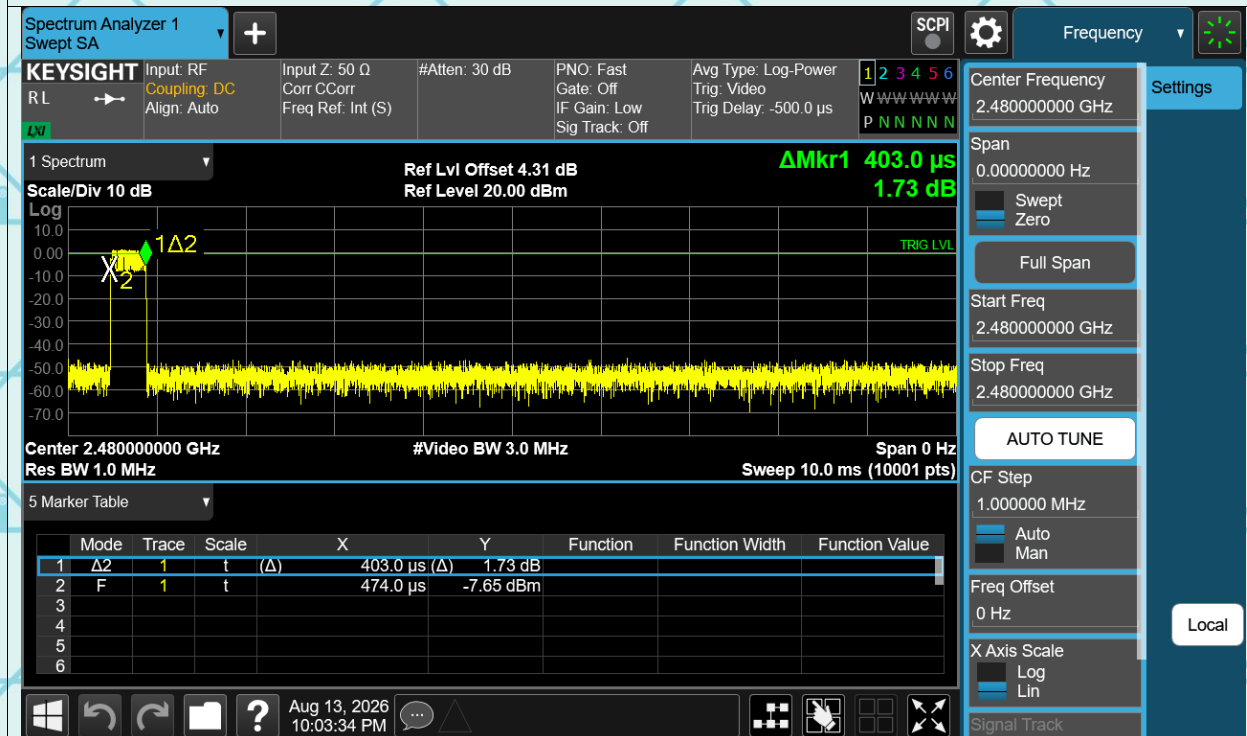
Dwell 1-DH1 2441MHz One Burst



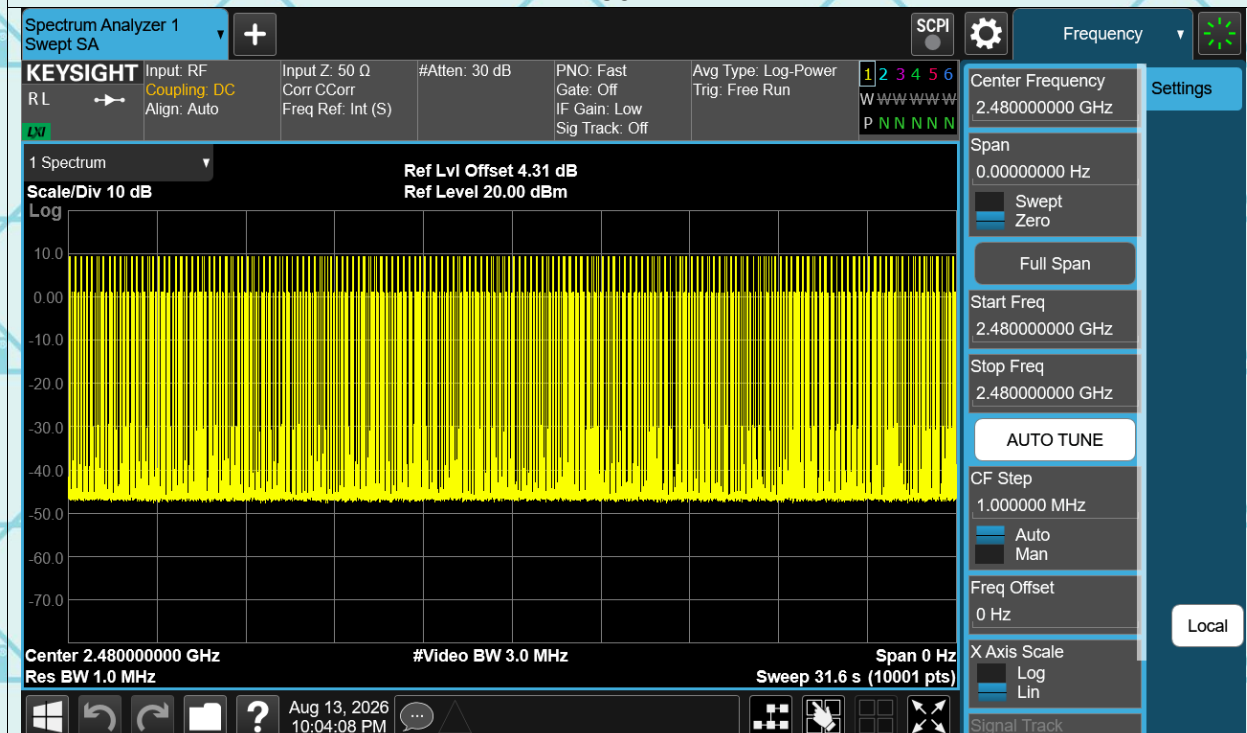
Dwell 1-DH1 2441MHz Accumulated



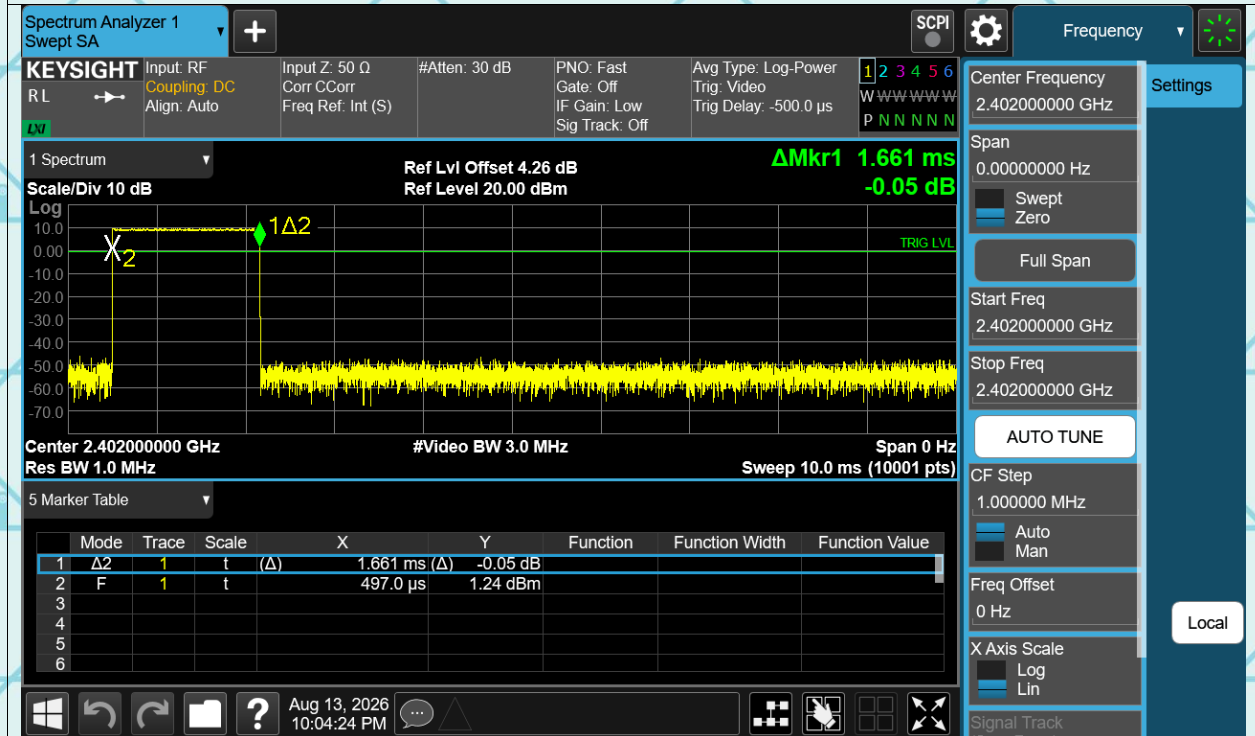
Dwell 1-DH1 2480MHz One Burst



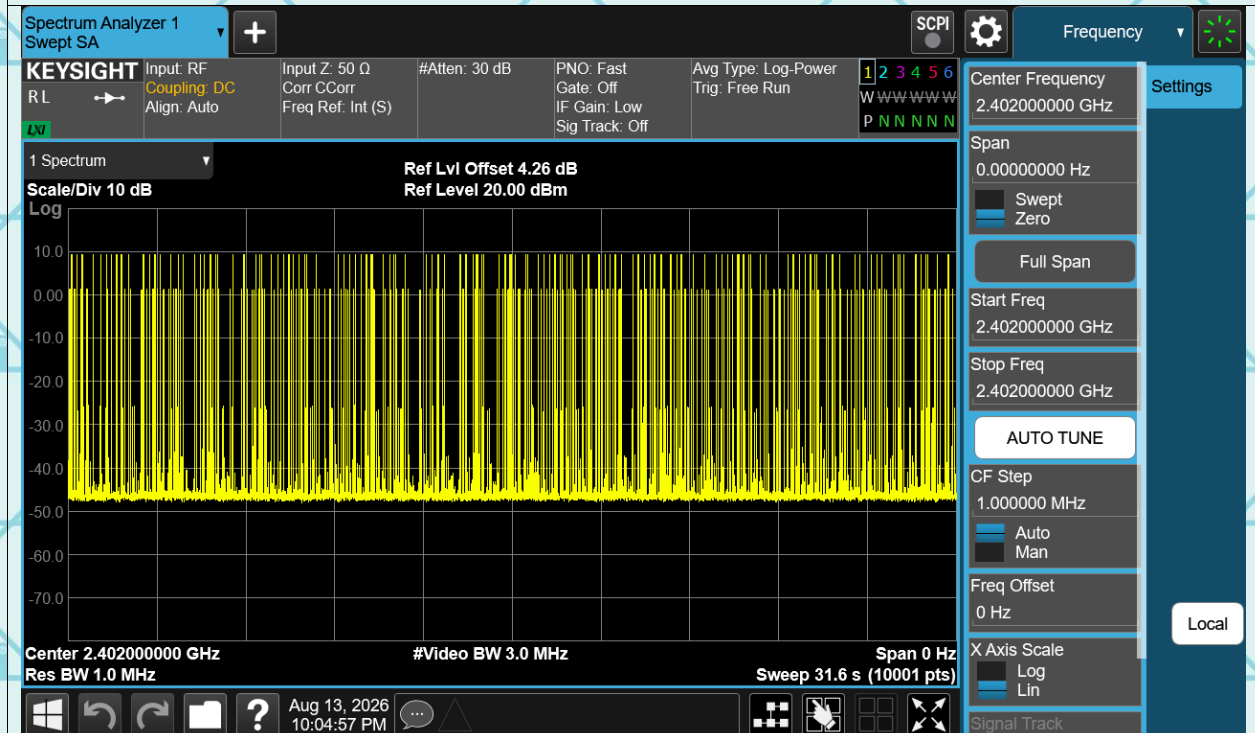
Dwell 1-DH1 2480MHz Accumulated

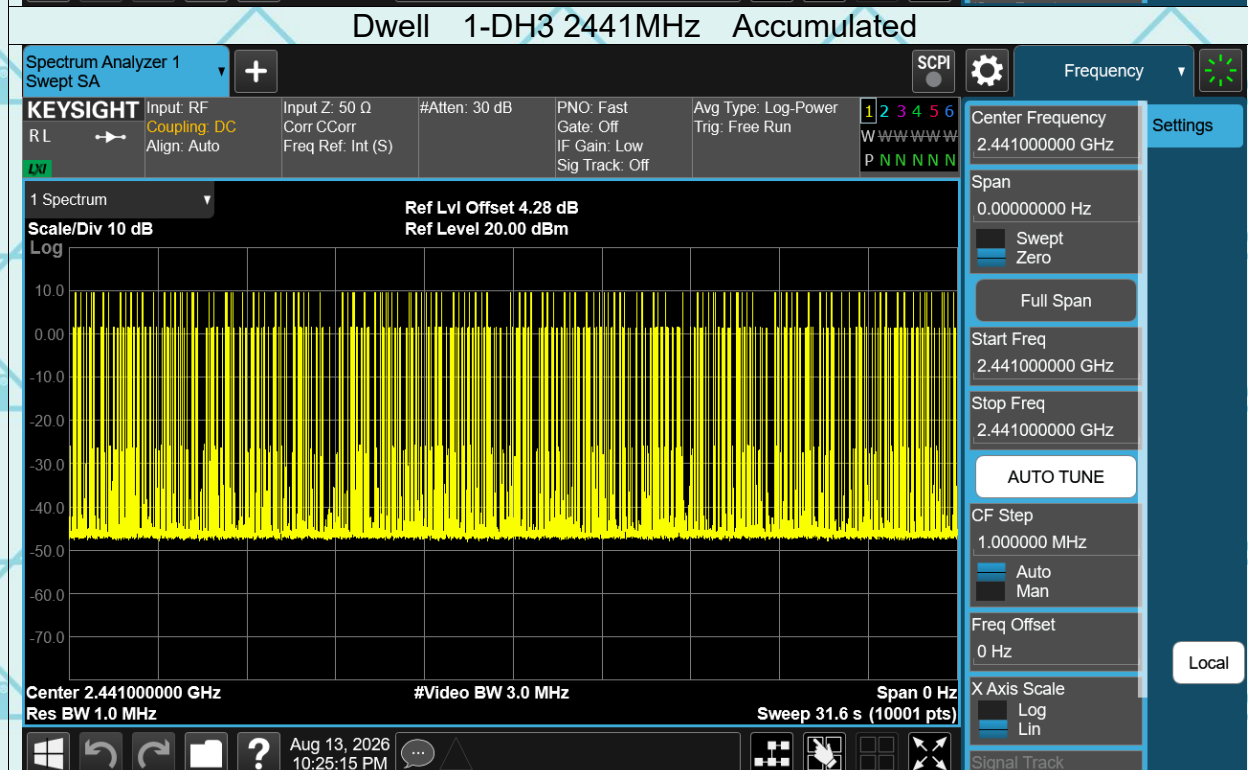
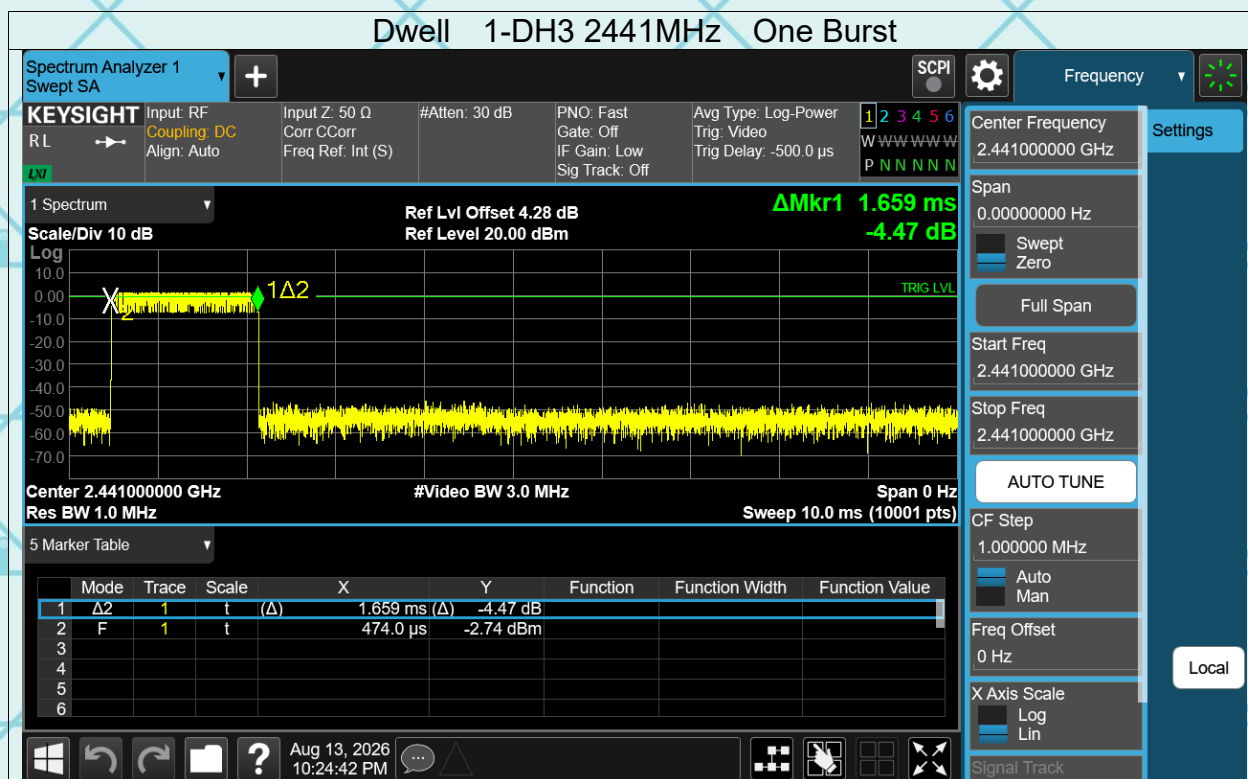


Dwell 1-DH3 2402MHz One Burst

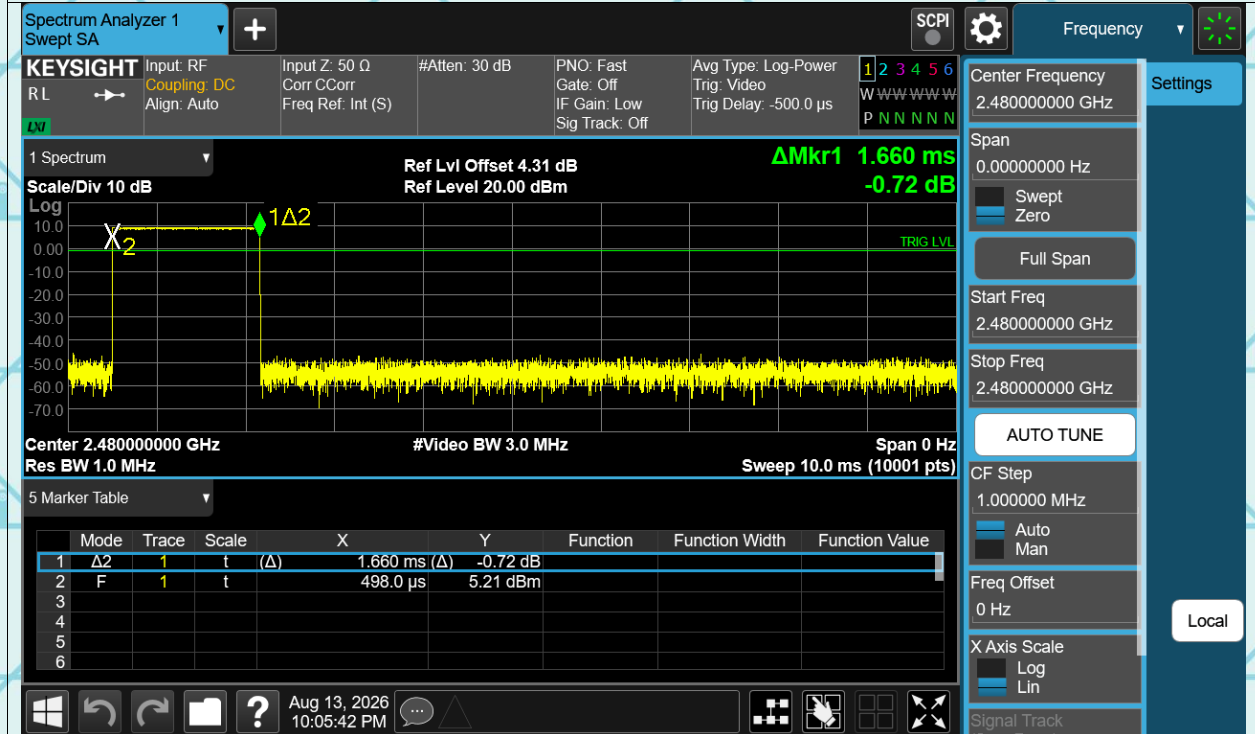


Dwell 1-DH3 2402MHz Accumulated

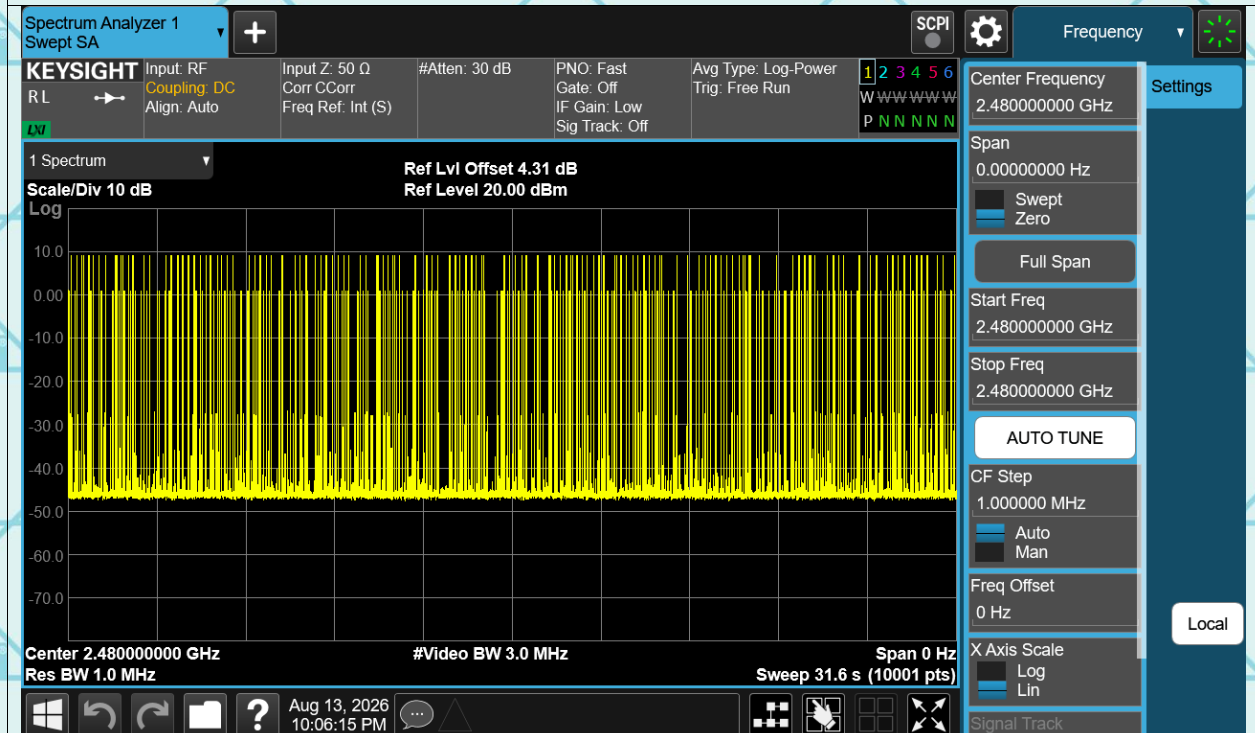


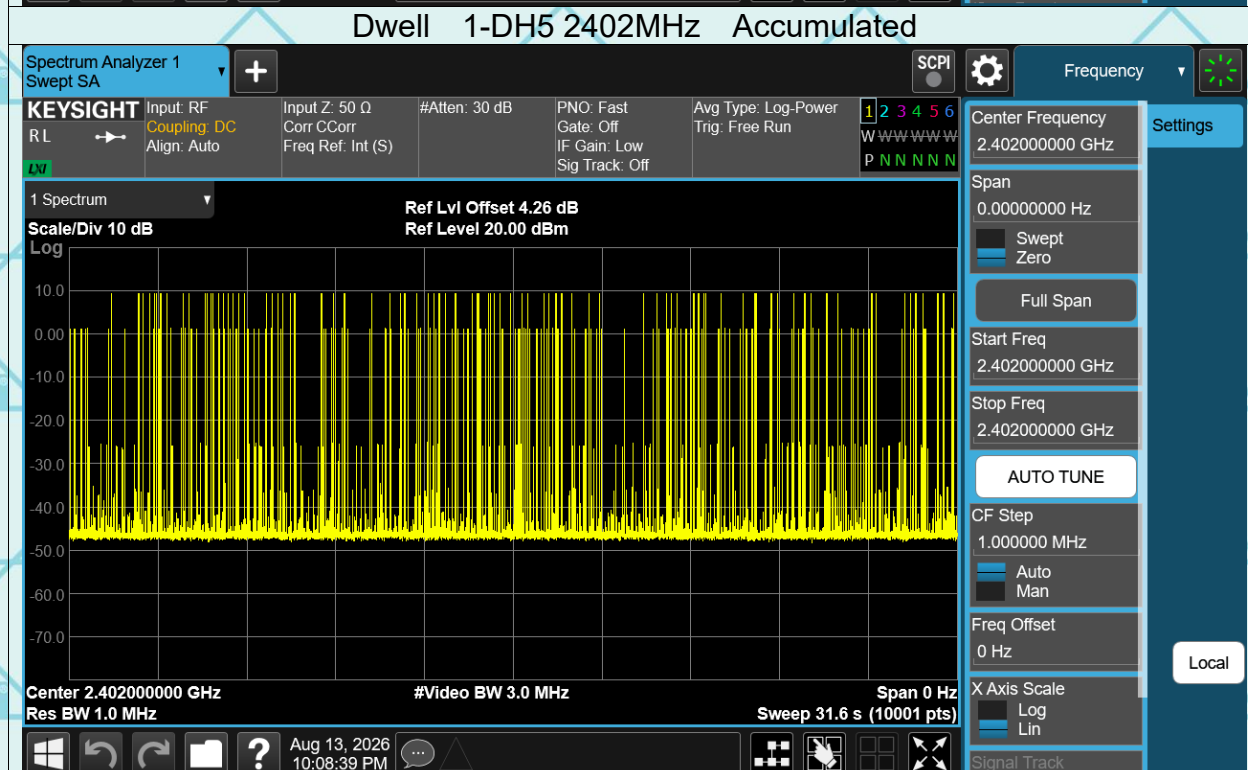
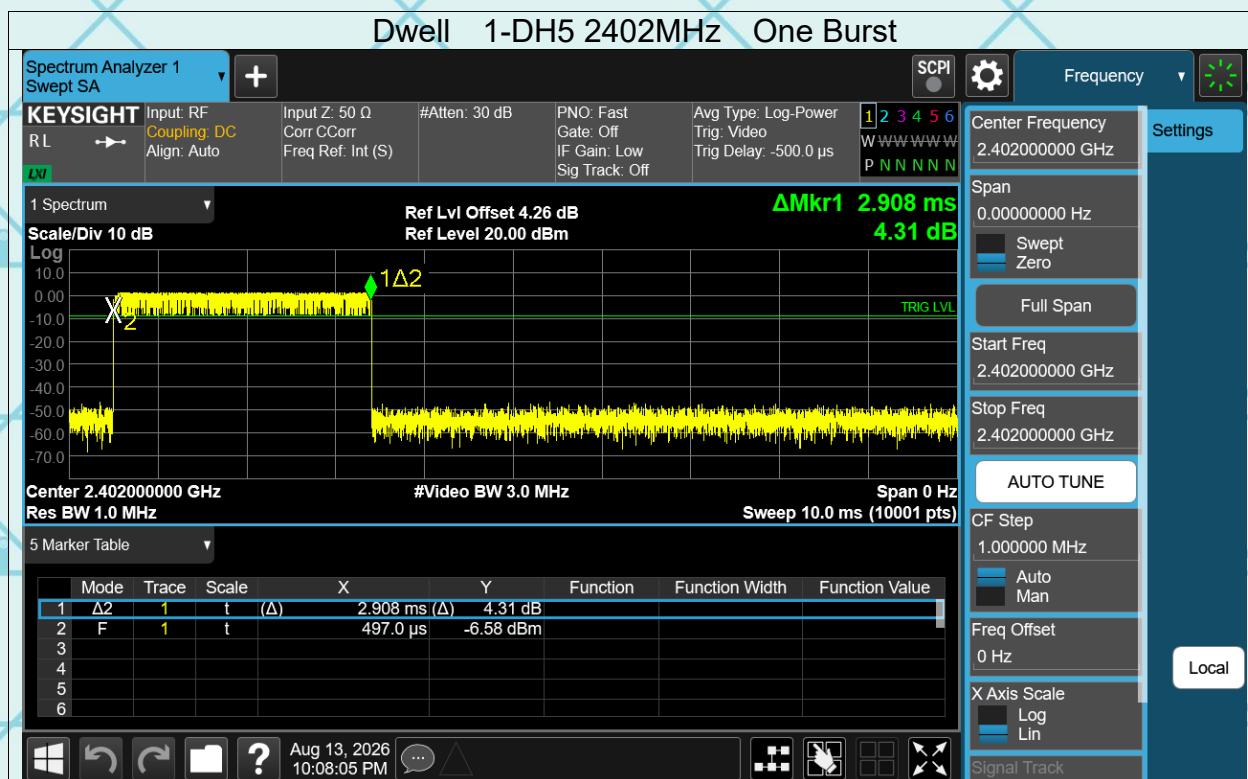


Dwell 1-DH3 2480MHz One Burst

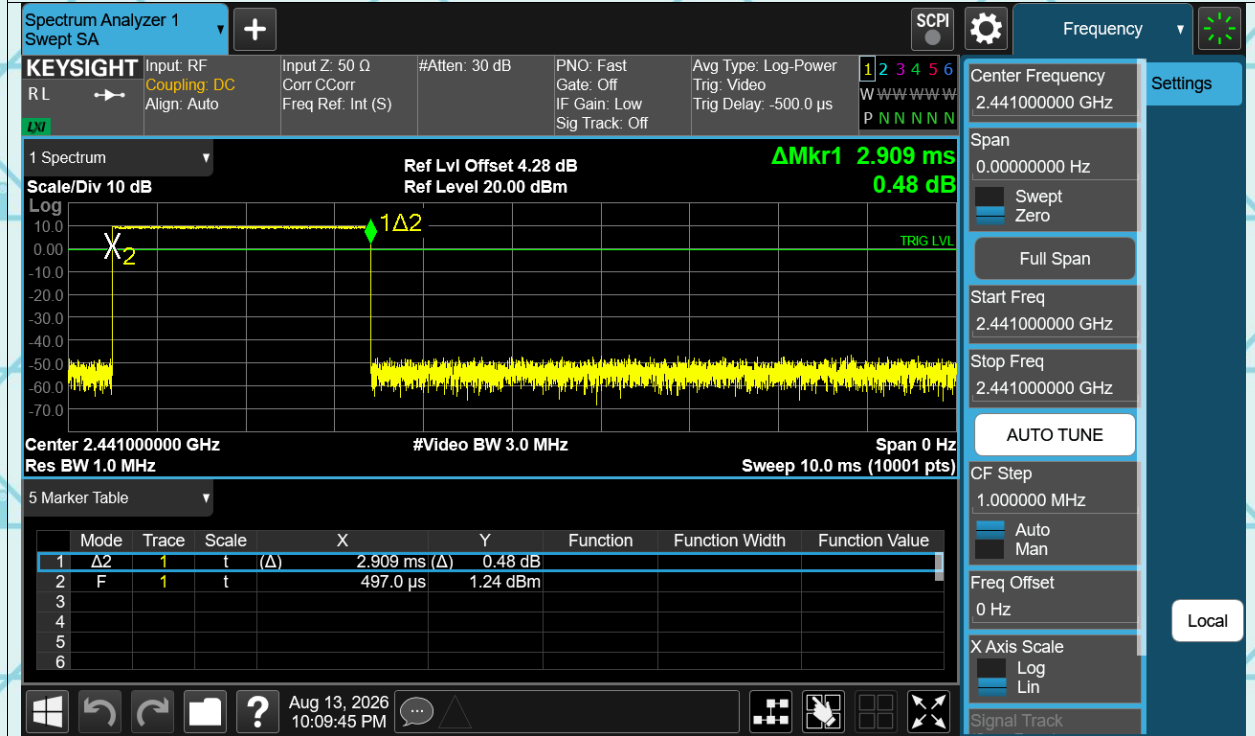


Dwell 1-DH3 2480MHz Accumulated





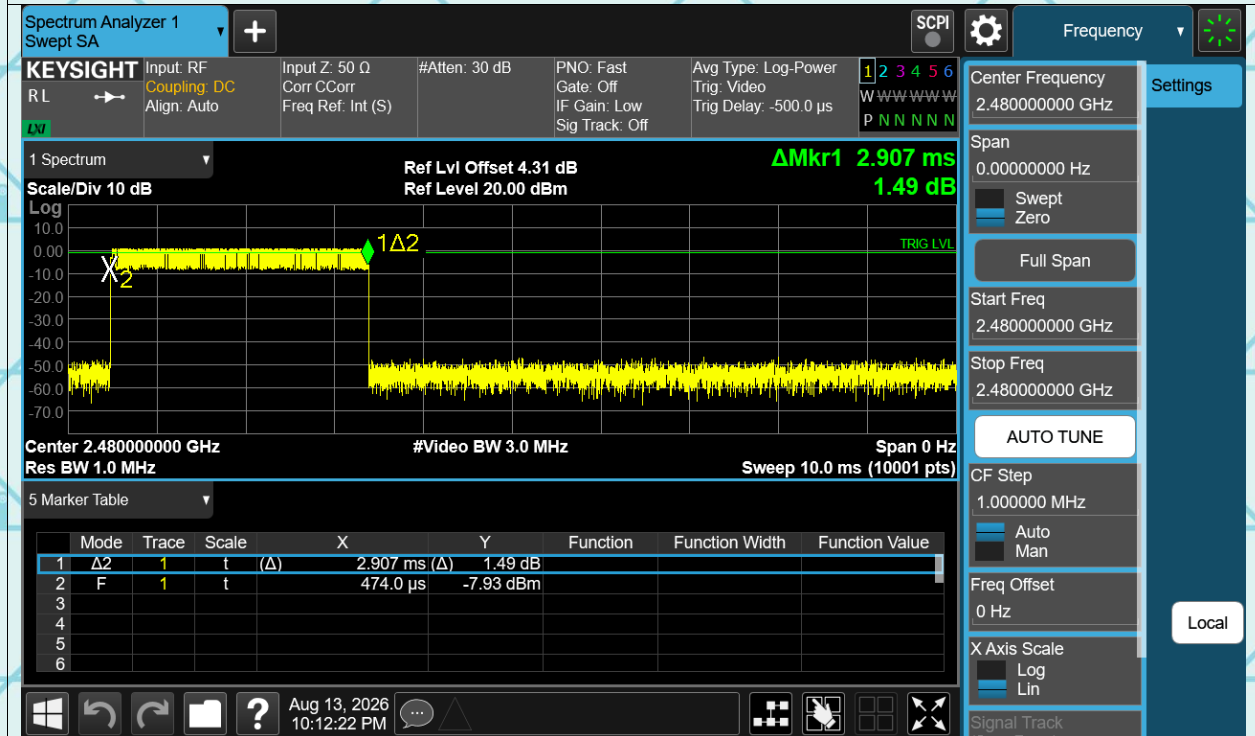
Dwell 1-DH5 2441MHz One Burst



Dwell 1-DH5 2441MHz Accumulated



Dwell 1-DH5 2480MHz One Burst



Dwell 1-DH5 2480MHz Accumulated



6.8. Pseudorandom Frequency Hopping Sequence

Test Requirement: FCC Part15 C Section 15.247 (a)(1) requirement:

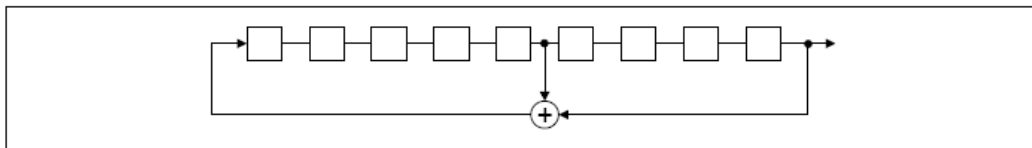
Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

Alternatively. Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a Pseudorandom ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

EUT Pseudorandom Frequency Hopping Sequence

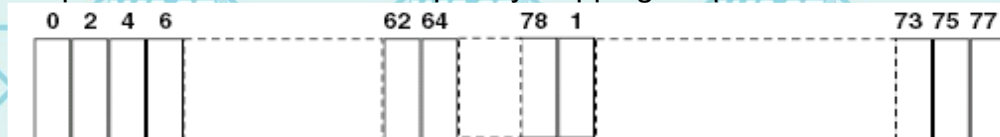
The pseudorandom sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first one of 9 consecutive ones; i.e. the shift register is initialized with nine ones.

- Number of shift register stages: 9
- Length of pseudo-random sequence: $2^9 - 1 = 511$ bits
- Longest sequence of zeros: 8 (non-inverted signal)



Linear Feedback Shift Register for Generation of the PRBS sequence

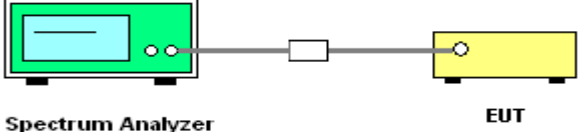
An example of Pseudorandom Frequency Hopping Sequence as follow:



Each frequency used equally on the average by each transmitter. The system receivers have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shift frequencies in synchronization with the transmitted signals.

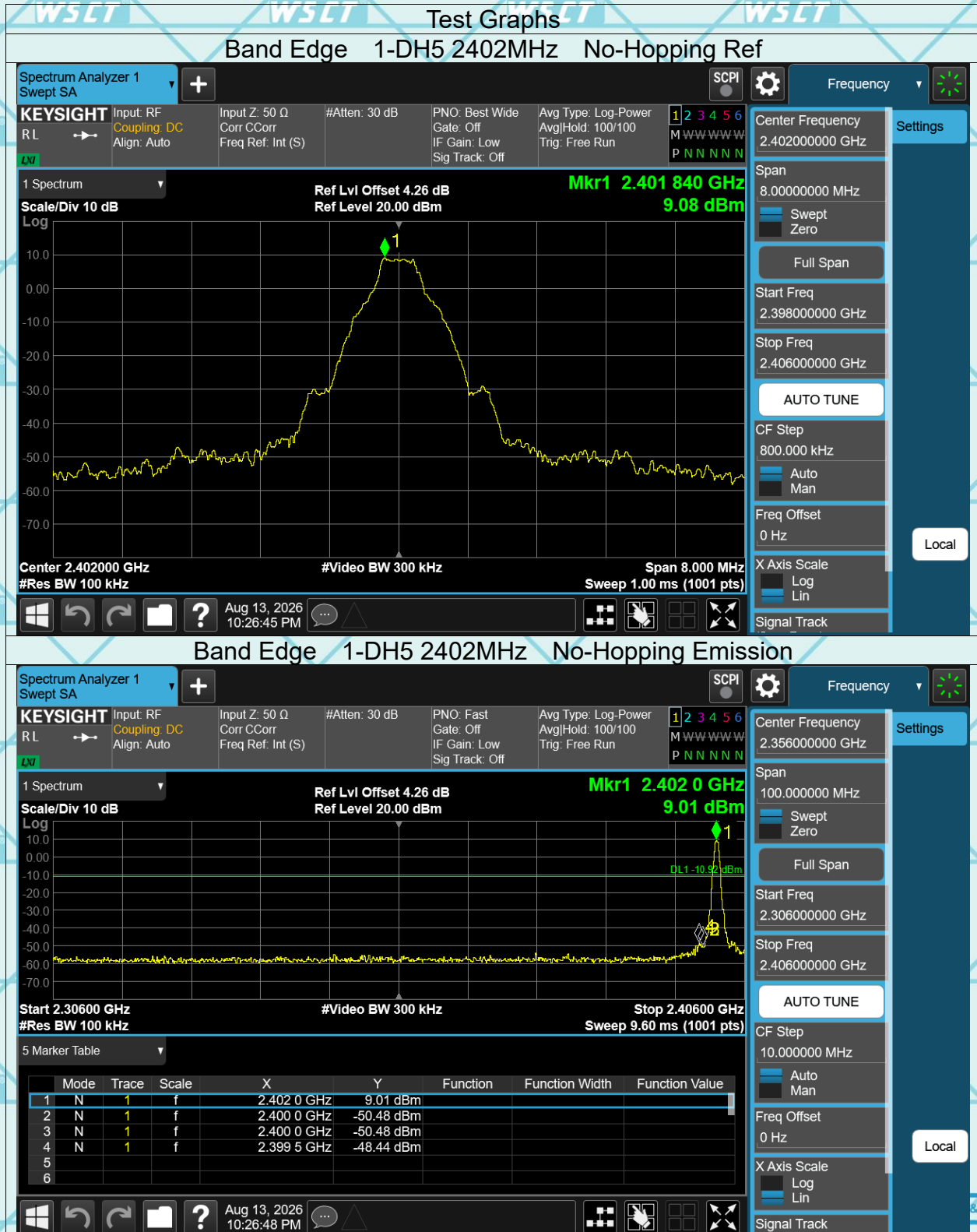
6.9. Conducted Band Edge Measurement

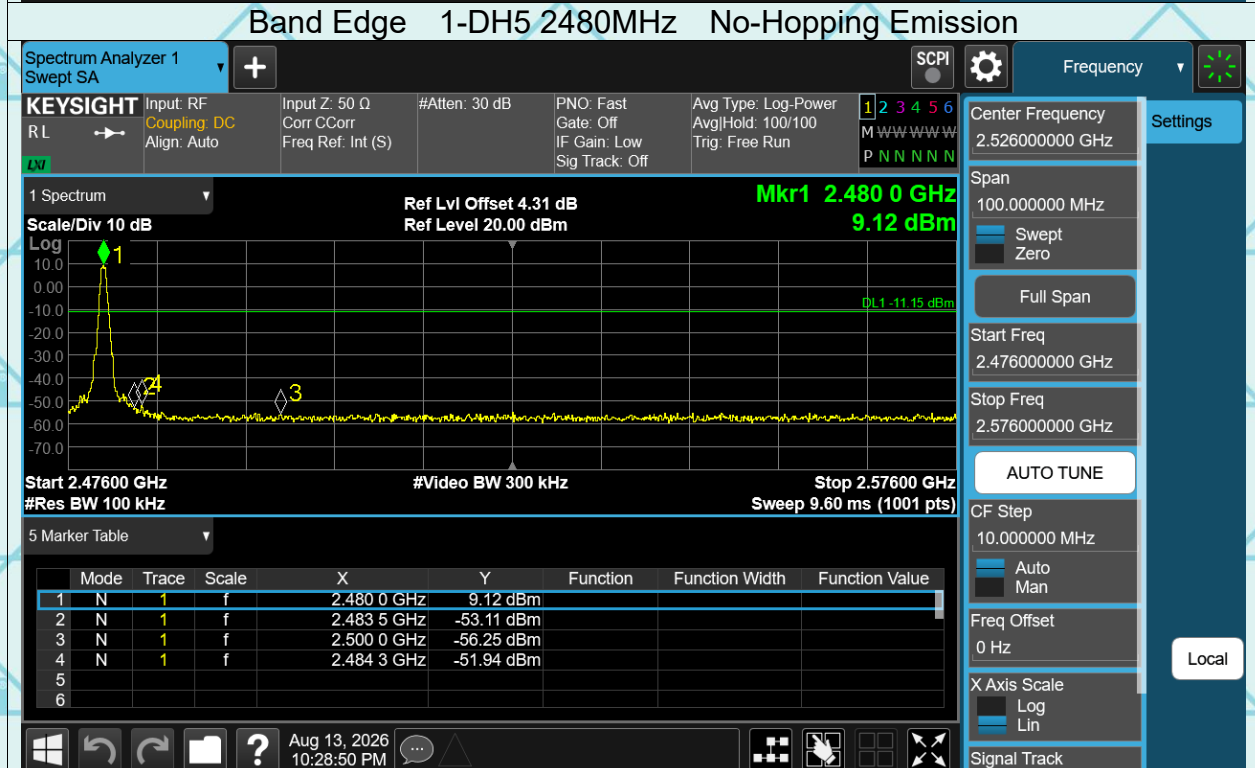
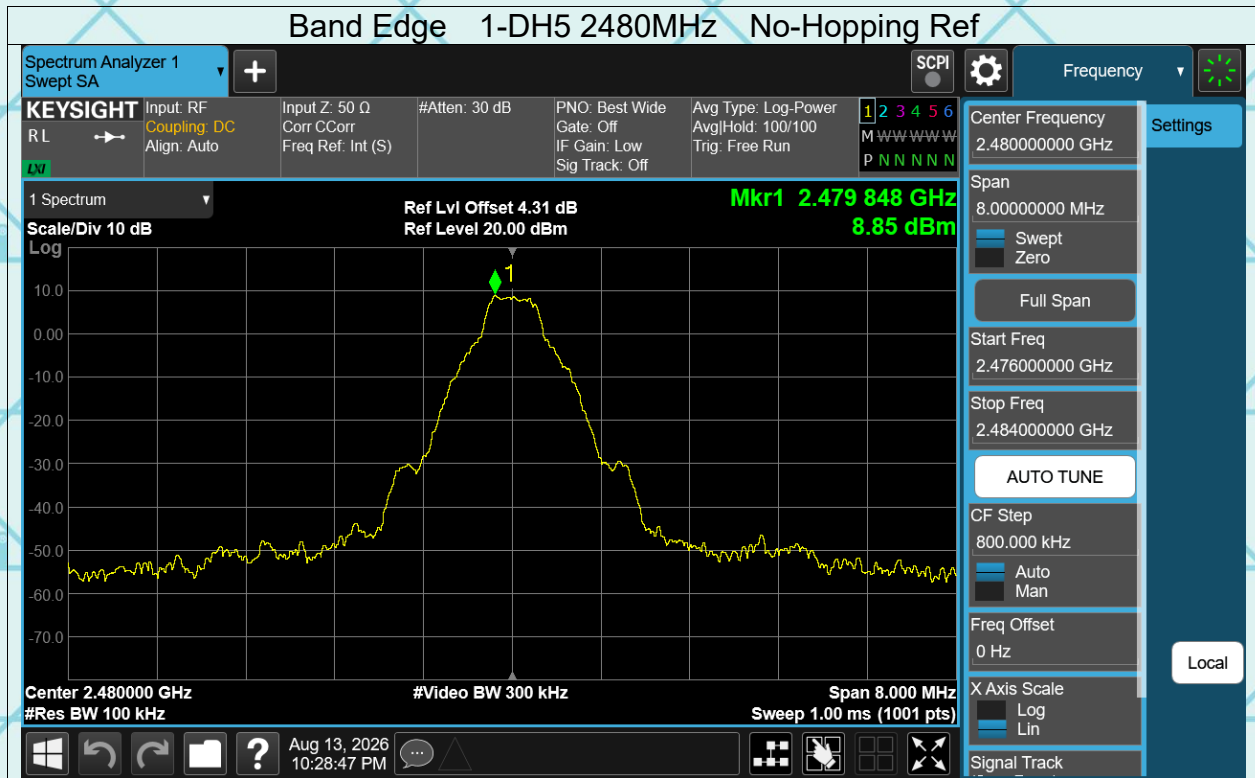
6.9.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.10:2020
Limit:	In any 100 kHz bandwidth outside the intentional radiation frequency band, the radio frequency power shall be at least 20 dB below the highest level of the radiated power. In addition, radiated emissions which fall in the restricted bands must also comply with the radiated emission limits.
Test Setup:	 Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	1. The testing follows the guidelines in Band-edge Compliance of RF Conducted Emissions of ANSI C63.10:2020 Measurement Guidelines. 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. Set RBW = 100 kHz ($\geq 1\%$ span=10MHz), VBW = 300 kHz ($\geq$RBW). Band edge emissions must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100kHz RBW. The attenuation shall be 30 dB instead of 20 dB when RMS conducted output power procedure is used. 4. Enable hopping function of the EUT and then repeat step 2 and 3. 5. Measure and record the results in the test report.
Test Result:	PASS

6.9.2. Test Data

GFSK Modulation (the worst case)



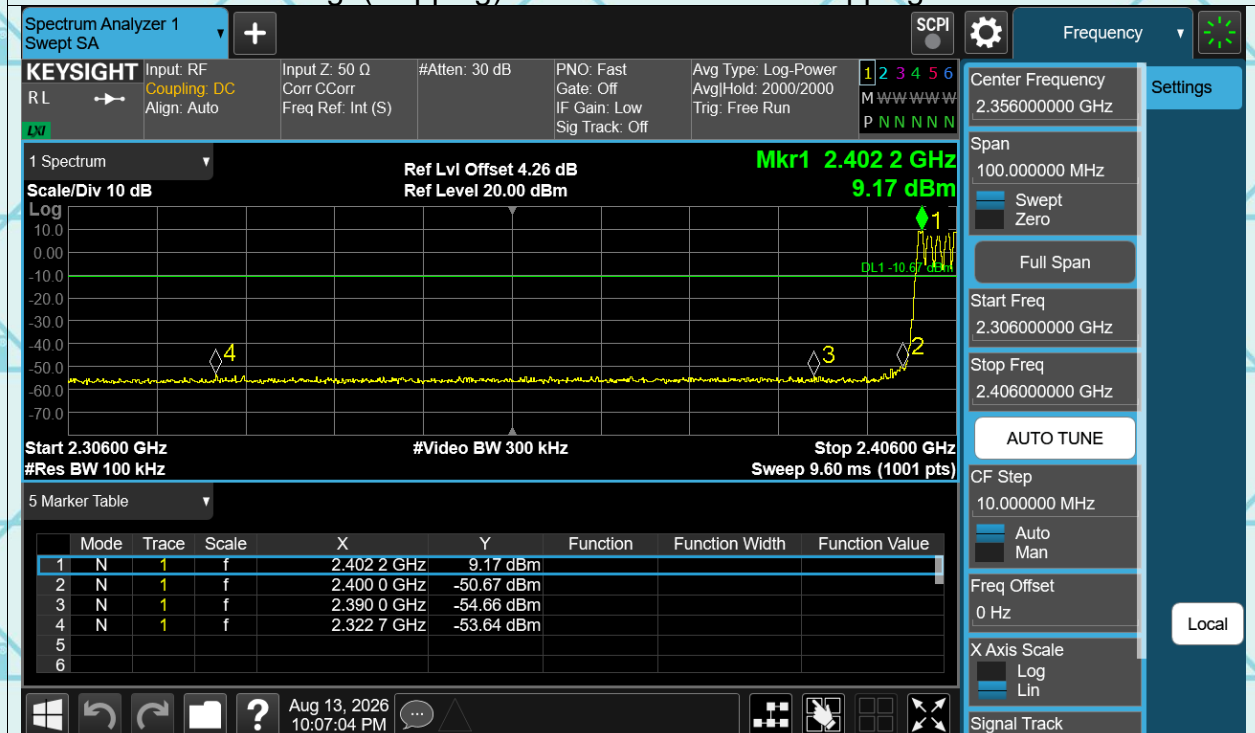


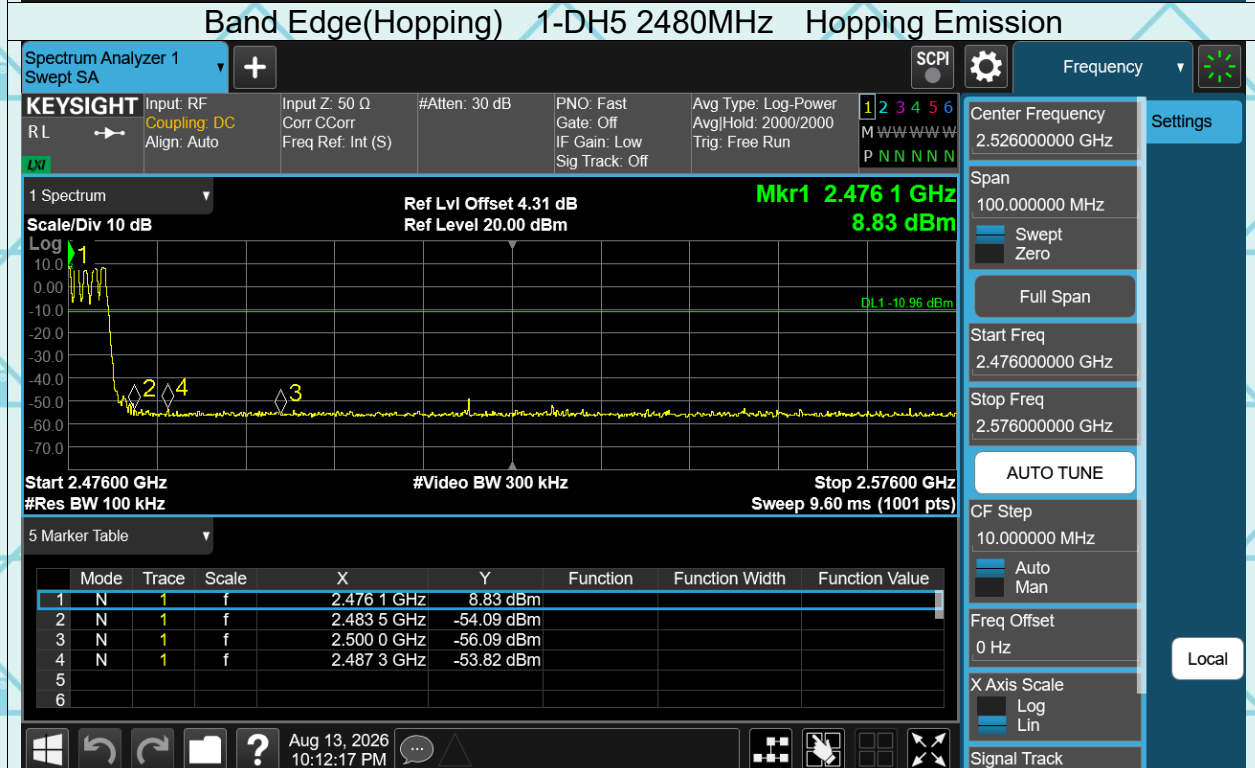
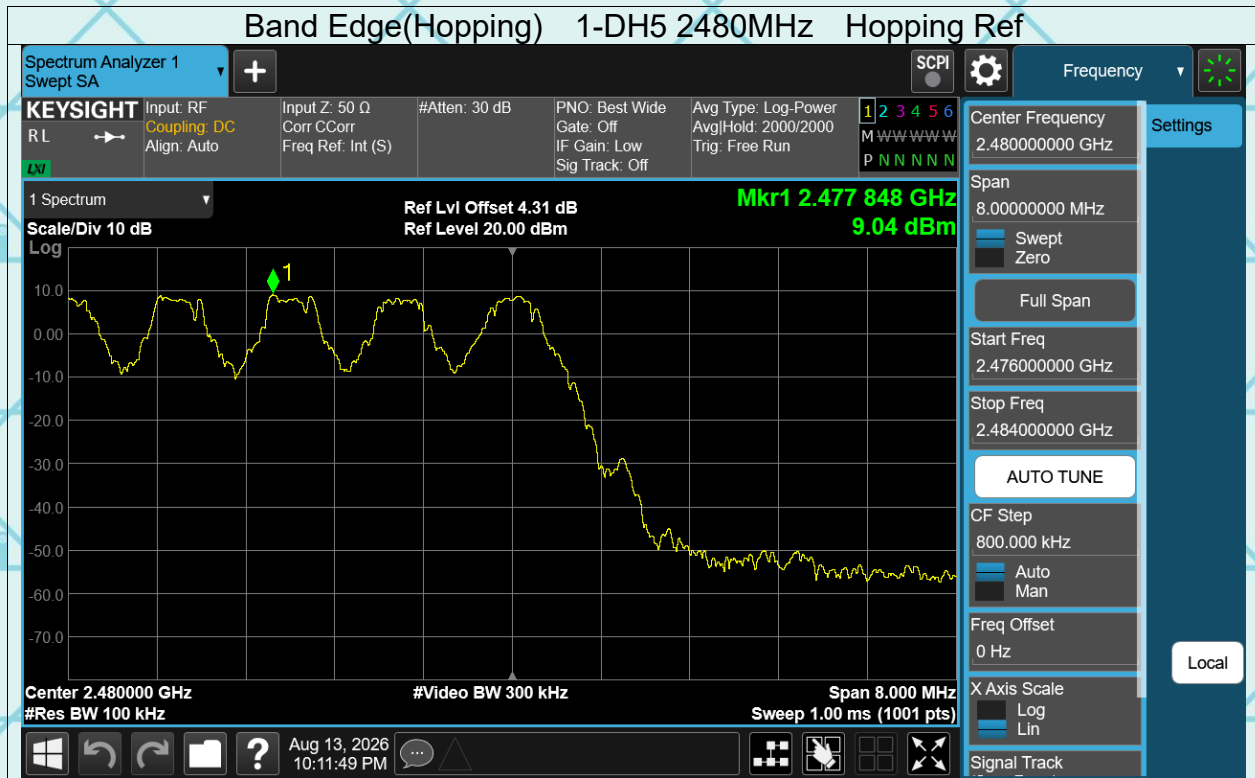
Test Graphs

Band Edge(Hopping) 1-DH5 2402MHz Hopping Ref



Band Edge(Hopping) 1-DH5 2402MHz Hopping Emission



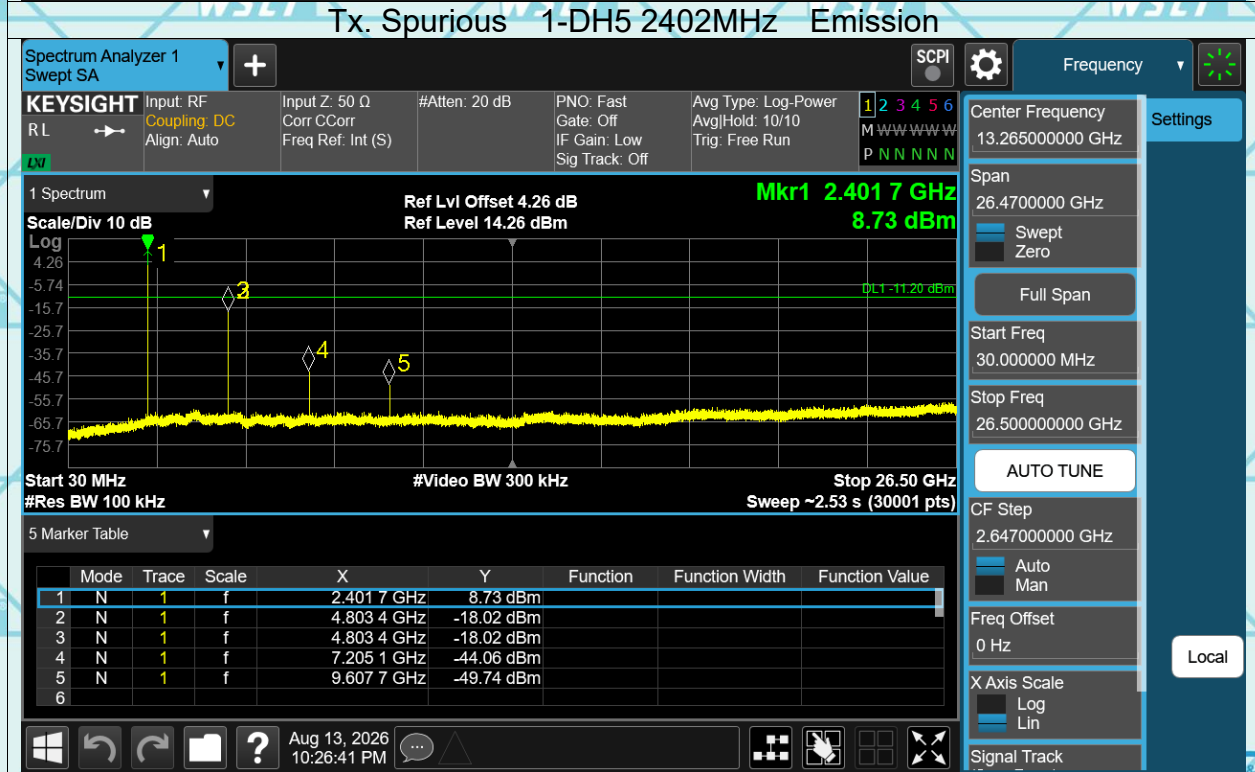
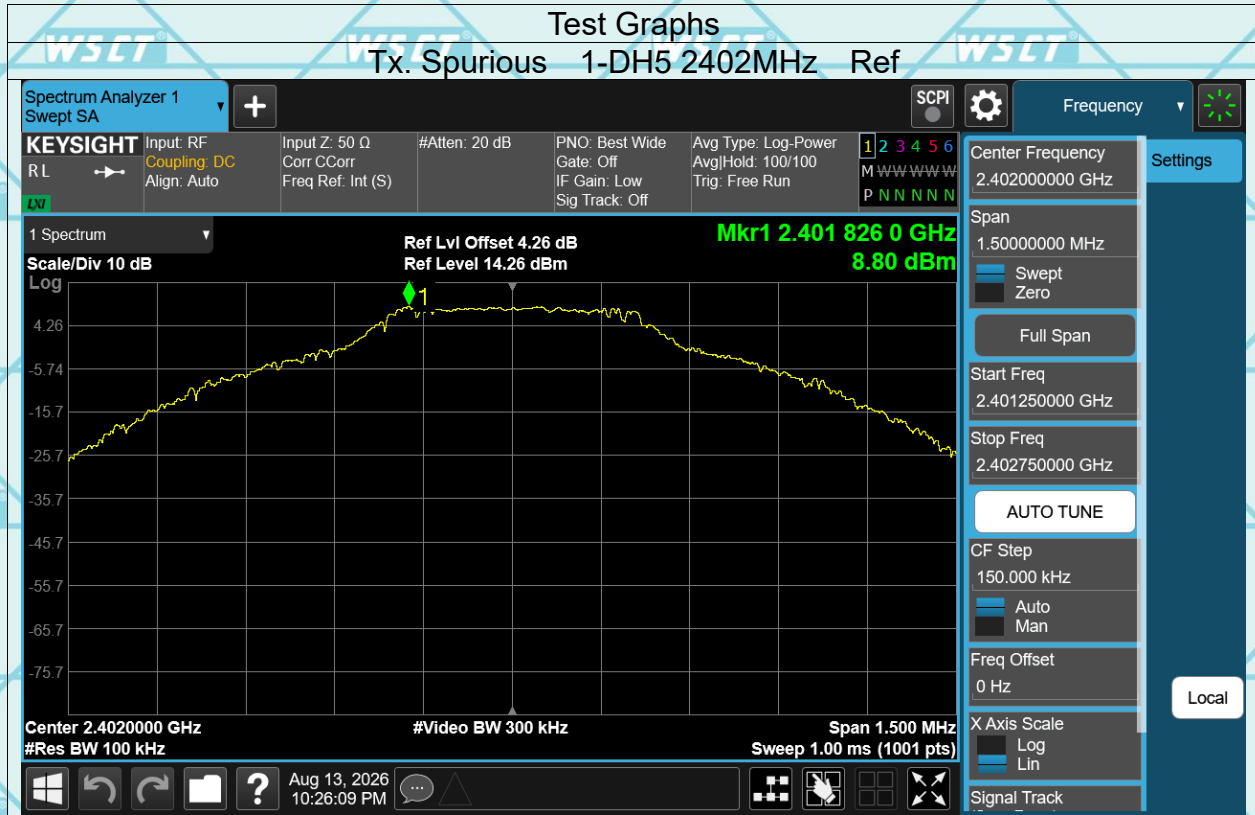


6.10. Conducted Spurious Emission Measurement

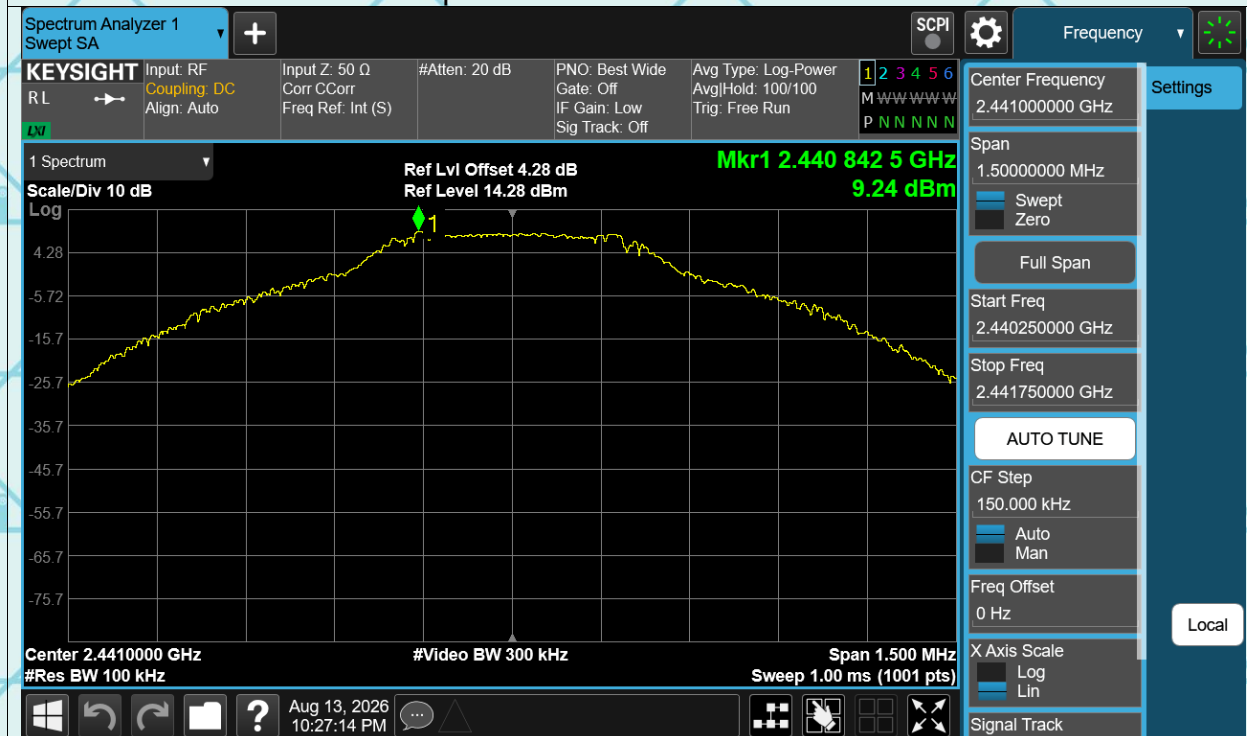
6.10.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.10:2020
Limit:	In any 100 kHz bandwidth outside the intentional radiation frequency band, the radio frequency power shall be at least 20 dB below the highest level of the radiated power. In addition, radiated emissions which fall in the restricted bands must also comply with the radiated emission limits.
Test Setup:	 Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	1. The testing follows the guidelines in Spurious RF Conducted Emissions of ANSI C63.10:2020 Measurement Guidelines 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. 3. Set to the maximum power setting and enable the EUT transmit continuously. 4. Set RBW = 100 kHz, VBW = 300kHz, scan up through 10th harmonic. All harmonics / spurs must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100 kHz RBW. 5. Measure and record the results in the test report. 6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
Test Result:	PASS

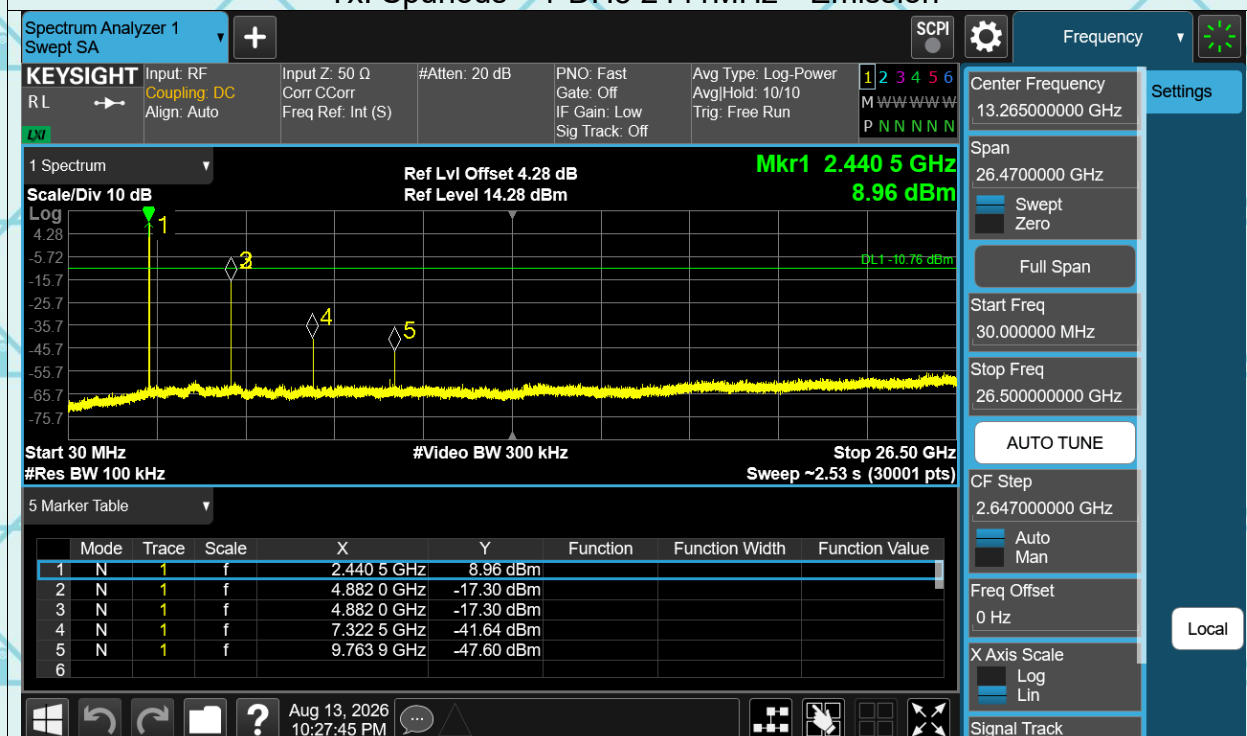
Test Data



Tx. Spurious 1-DH5 2441MHz Ref



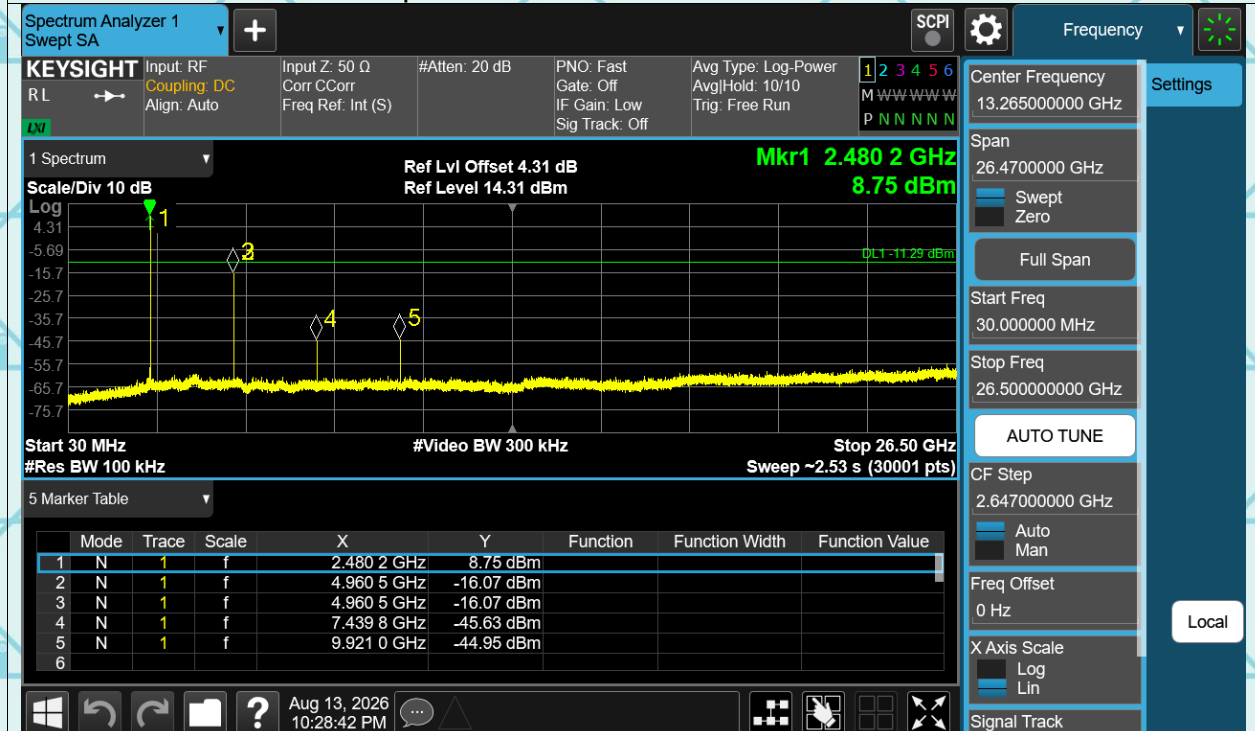
Tx. Spurious 1-DH5 2441MHz Emission



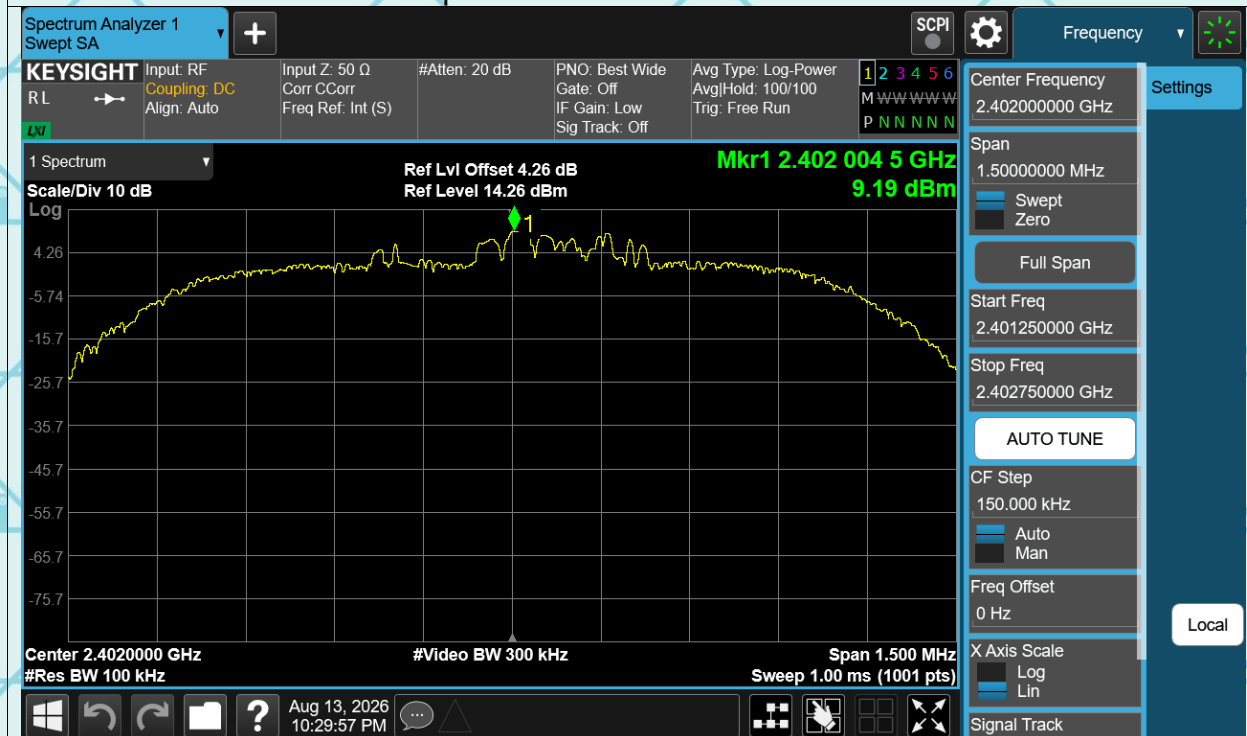
Tx. Spurious 1-DH5 2480MHz Ref



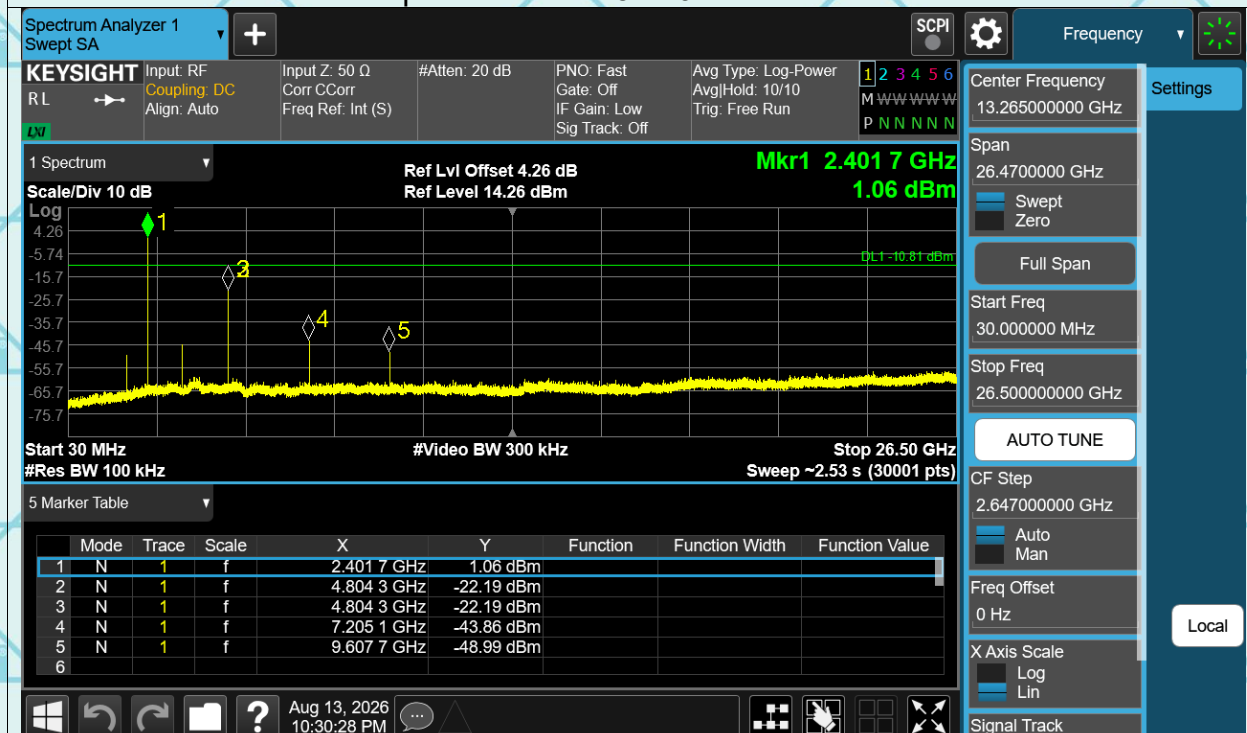
Tx. Spurious 1-DH5 2480MHz Emission



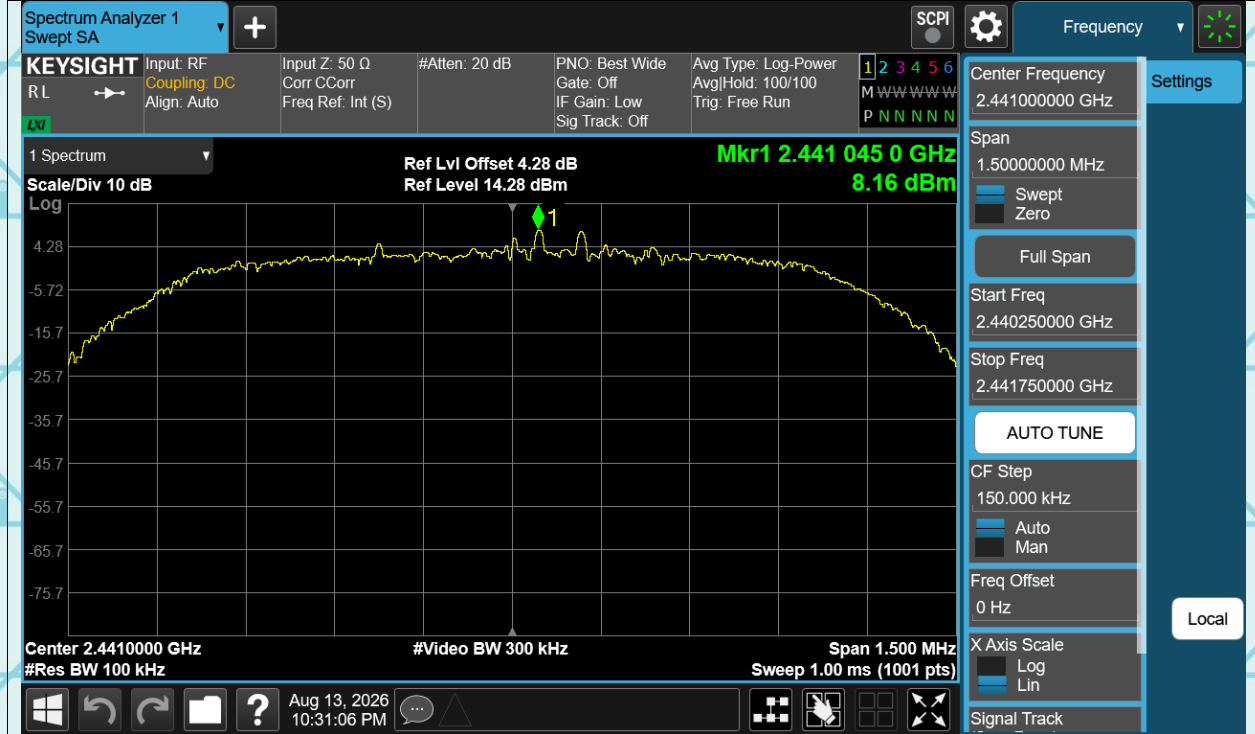
Tx. Spurious 2-DH5 2402MHz Ref



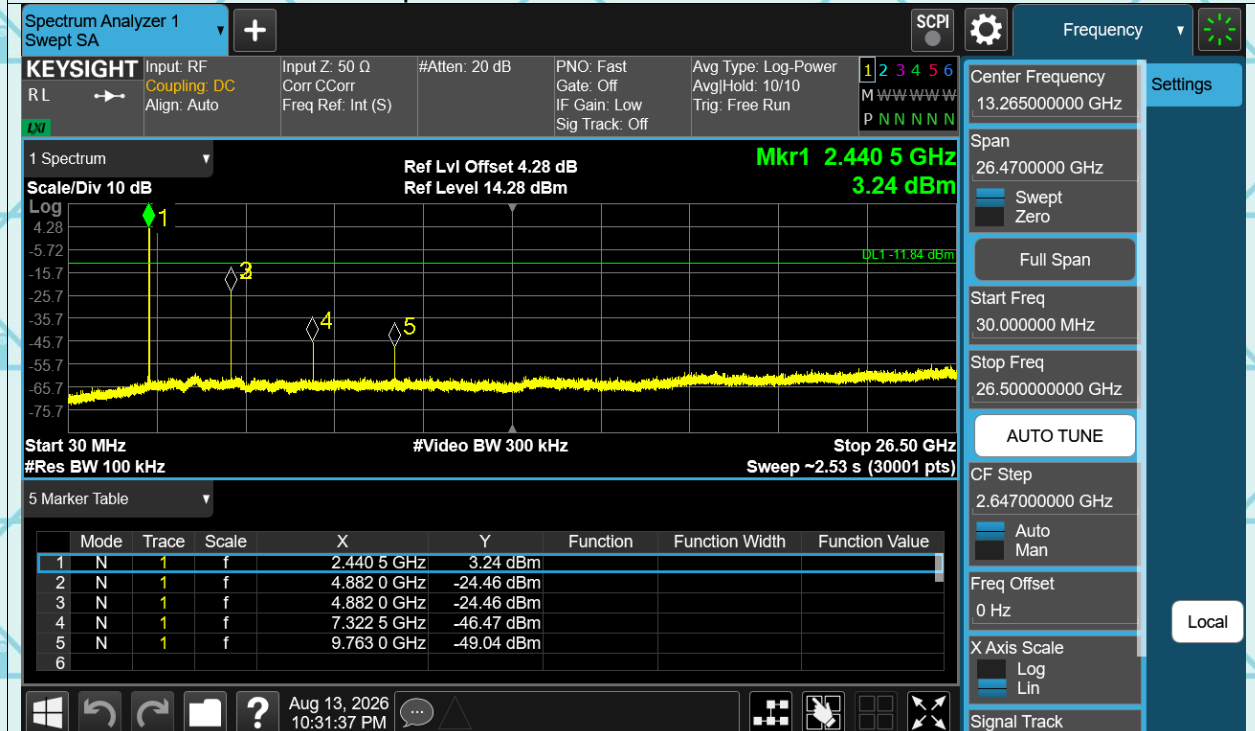
Tx. Spurious 2-DH5 2402MHz Emission



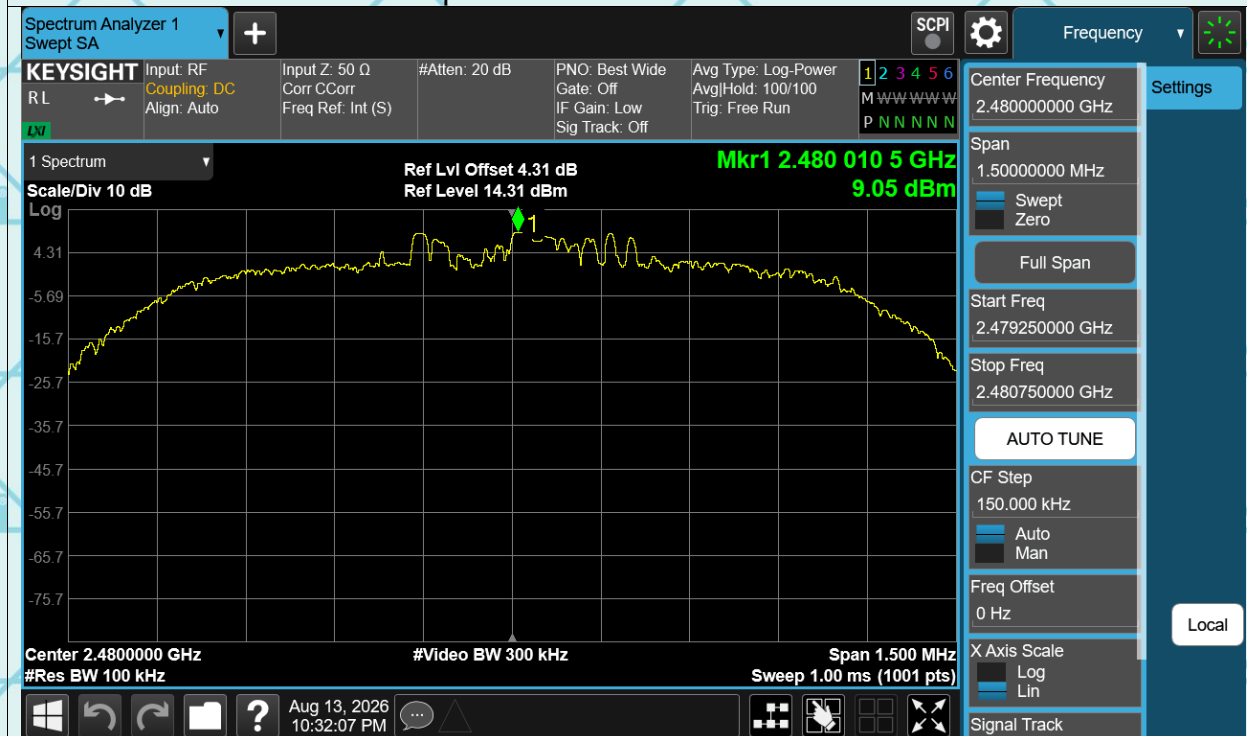
Tx. Spurious 2-DH5 2441MHz Ref



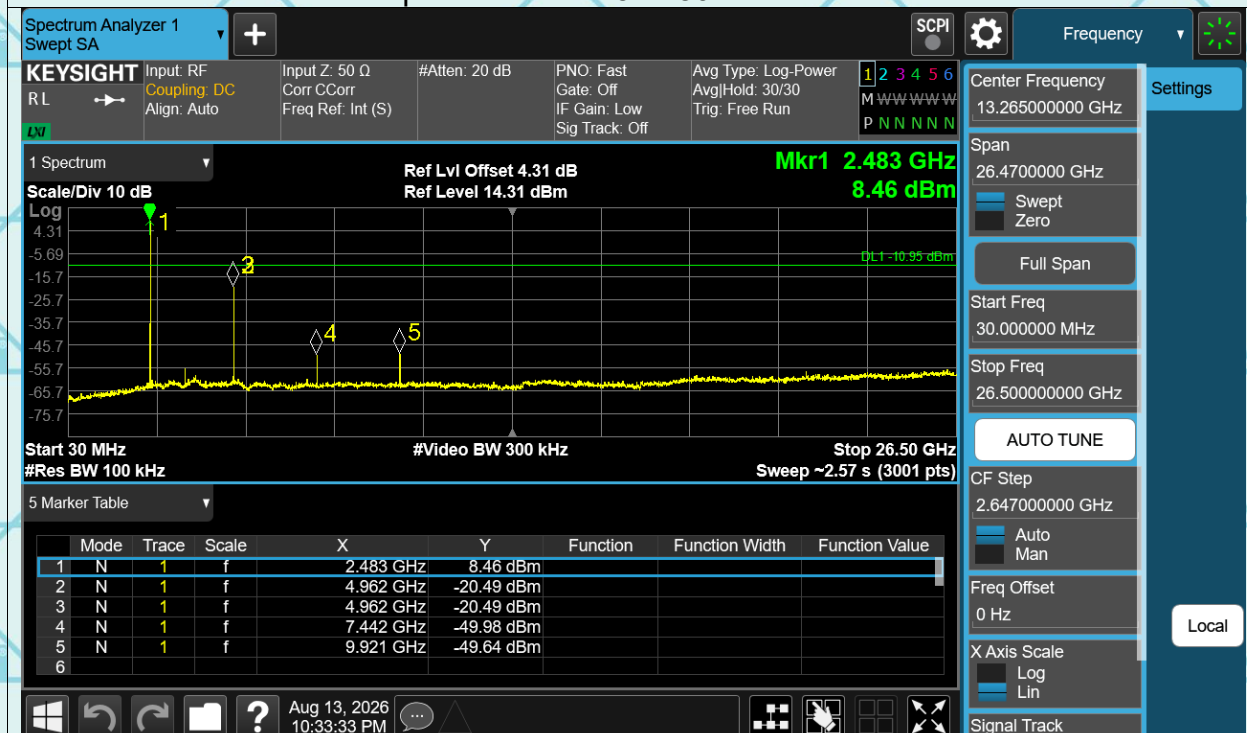
Tx. Spurious 2-DH5 2441MHz Emission



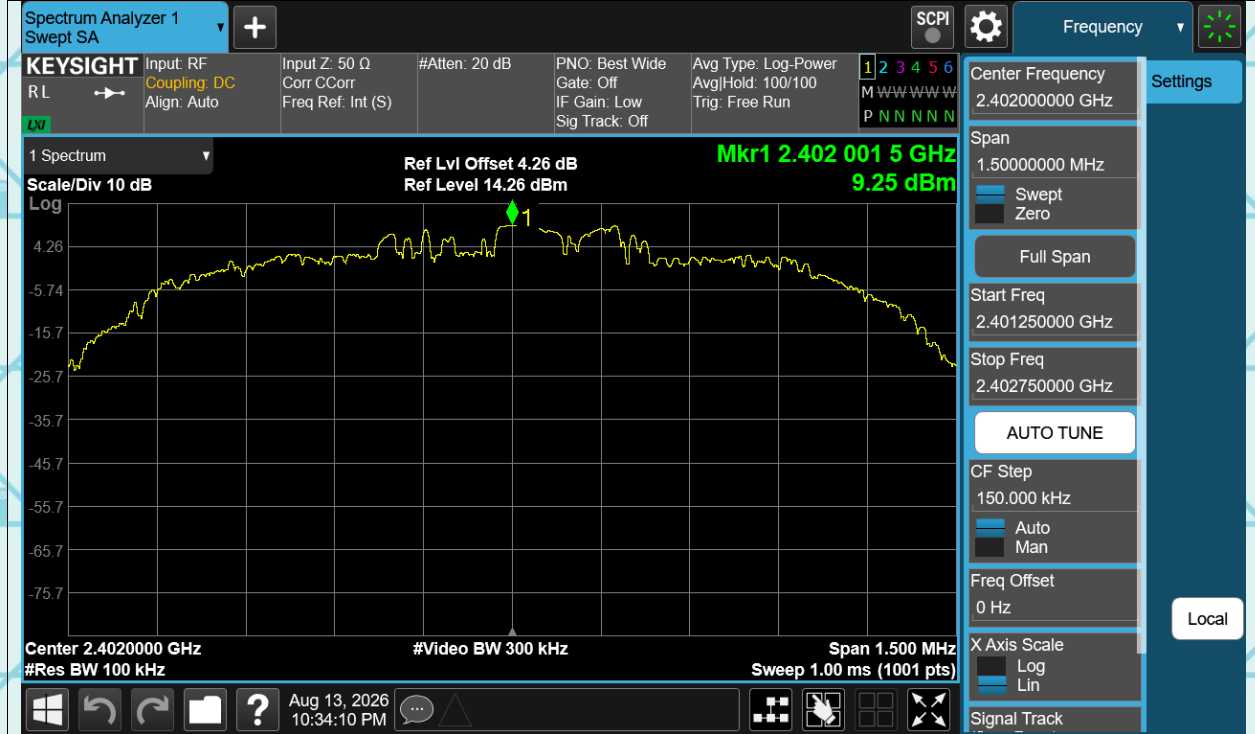
Tx. Spurious 2-DH5 2480MHz Ref



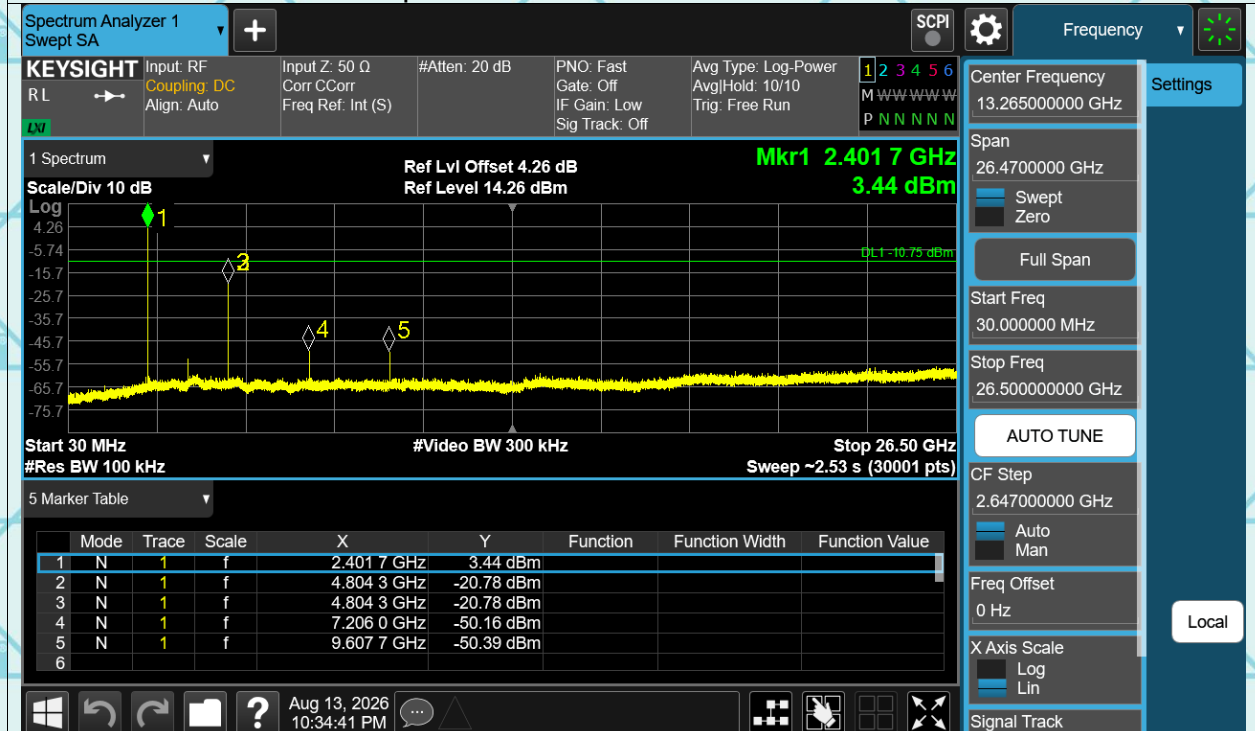
Tx. Spurious 2-DH5 2480MHz Emission



Tx. Spurious 3-DH5 2402MHz Ref



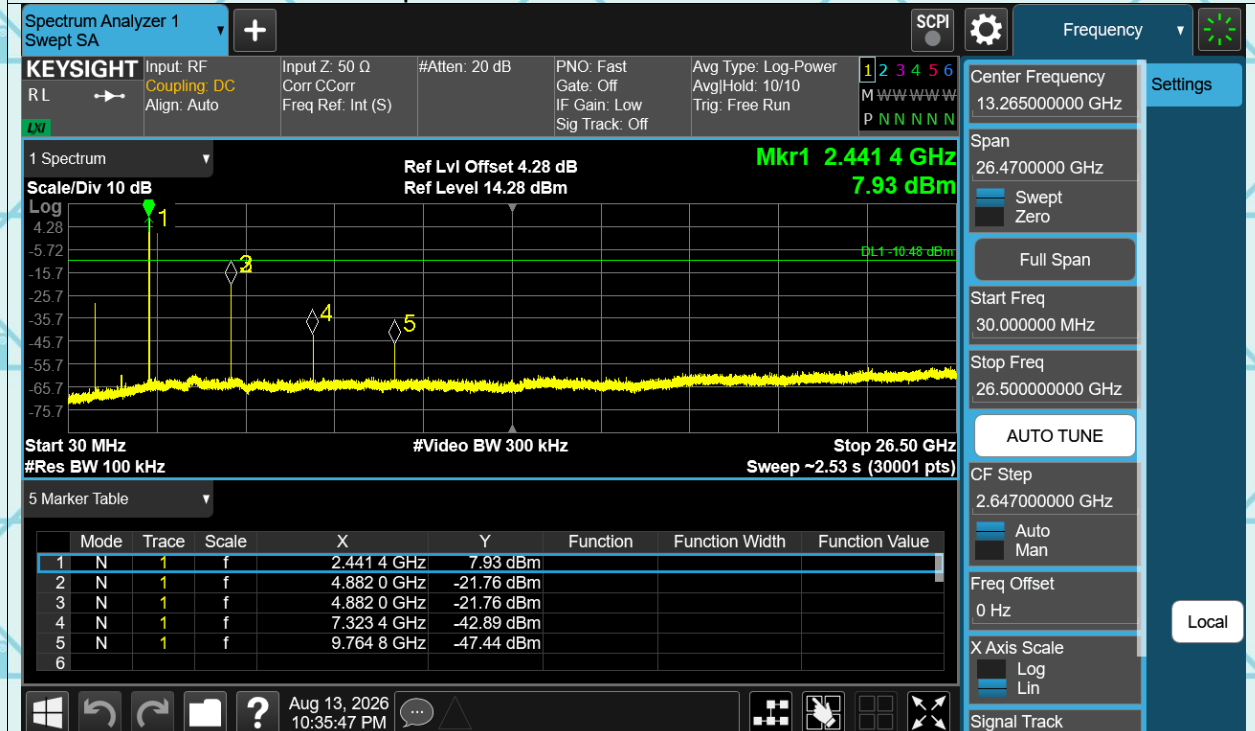
Tx. Spurious 3-DH5 2402MHz Emission



Tx. Spurious 3-DH5 2441MHz Ref



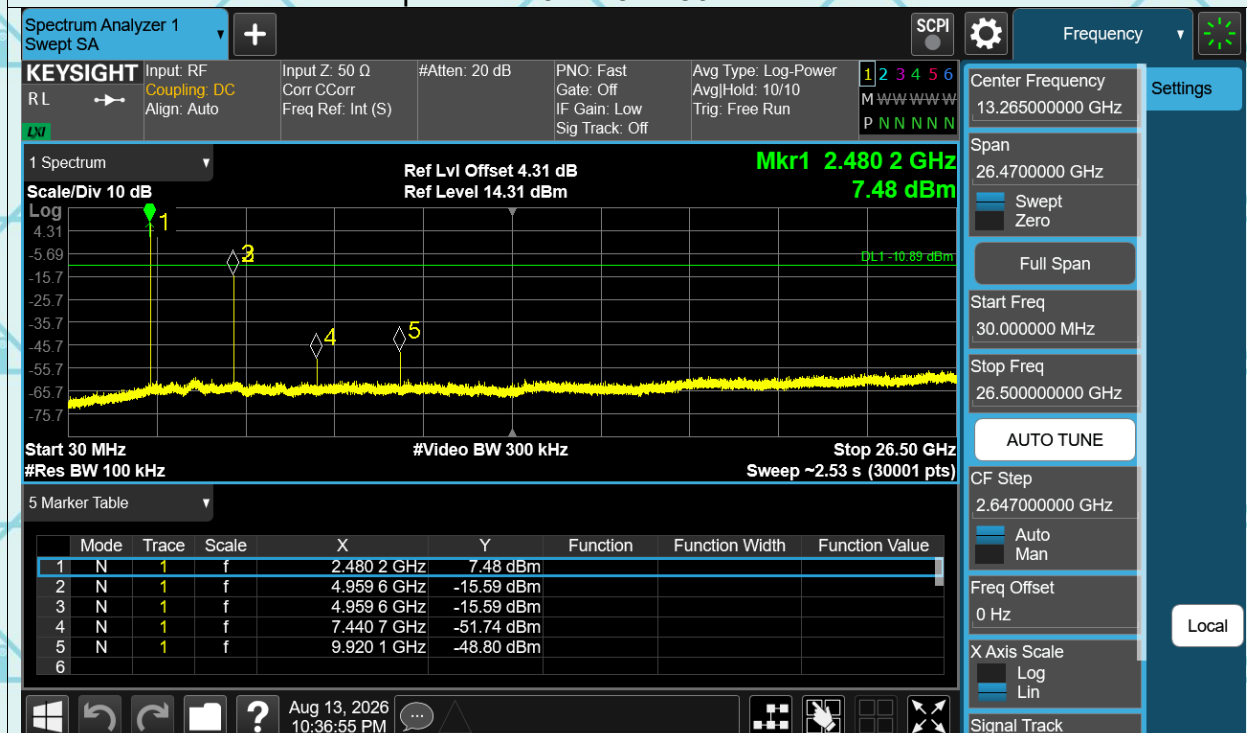
Tx. Spurious 3-DH5 2441MHz Emission



Tx. Spurious 3-DH5 2480MHz Ref

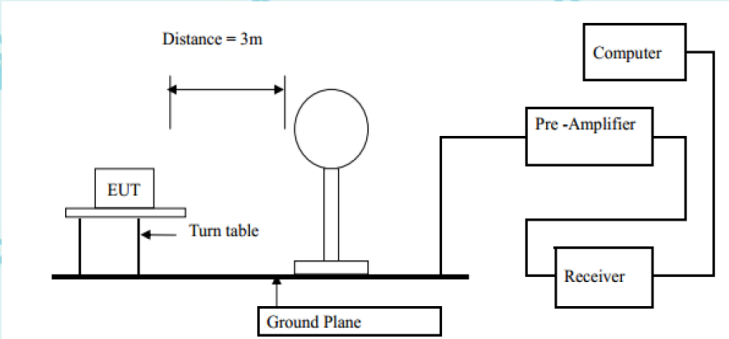


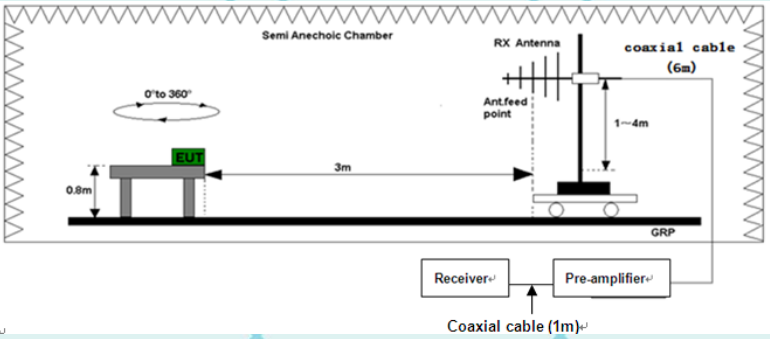
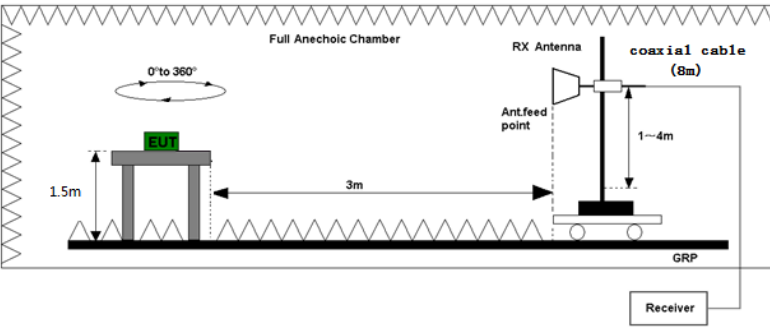
Tx. Spurious 3-DH5 2480MHz Emission



6.11. Radiated Spurious Emission Measurement

6.11.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.209				
Test Method:	ANSI C63.10:2020				
Frequency Range:	9 kHz to 25 GHz				
Measurement Distance:	3 m				
Antenna Polarization:	Horizontal & Vertical				
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	9kHz- 150kHz	Quasi-peak	200Hz	1kHz	Quasi-peak Value
	150kHz- 30MHz	Quasi-peak	9kHz	30kHz	Quasi-peak Value
	30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
		Peak	1MHz	10Hz	Average Value
Limit:	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	
	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	
Test setup:	For radiated emissions below 30MHz				
					
	30MHz to 1GHz				

	 Above 1GHz 
Test Mode:	Transmitting mode with modulation
Test Procedure:	1. The testing follows the guidelines in Spurious Radiated Emissions of ANSI C63.10:2020 Measurement Guidelines. 2. 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. 3. Set to the maximum power setting and enable the EUT transmit continuously. 4. 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, RBW=1MHz for $f > 1$GHz ; VBW$\geq$RBW; Sweep = auto; Detector function = peak; Trace = max hold for peak (3) For average measurement: use duty cycle correction factor method per 15.35(c). Duty cycle = On time/100 milliseconds On time = $N_1 \cdot L_1 + N_2 \cdot L_2 + \dots + N_{n-1} \cdot L_{n-1} + N_n \cdot L_n$ Where N_1 is number of type 1 pulses, L_1 is length of type 1 pulses, etc Average Emission Level = Peak Emission Level + $20 \cdot \log(\text{Duty cycle})$ Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
Test results:	PASS

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Revised: None

6.11.2. Test Data

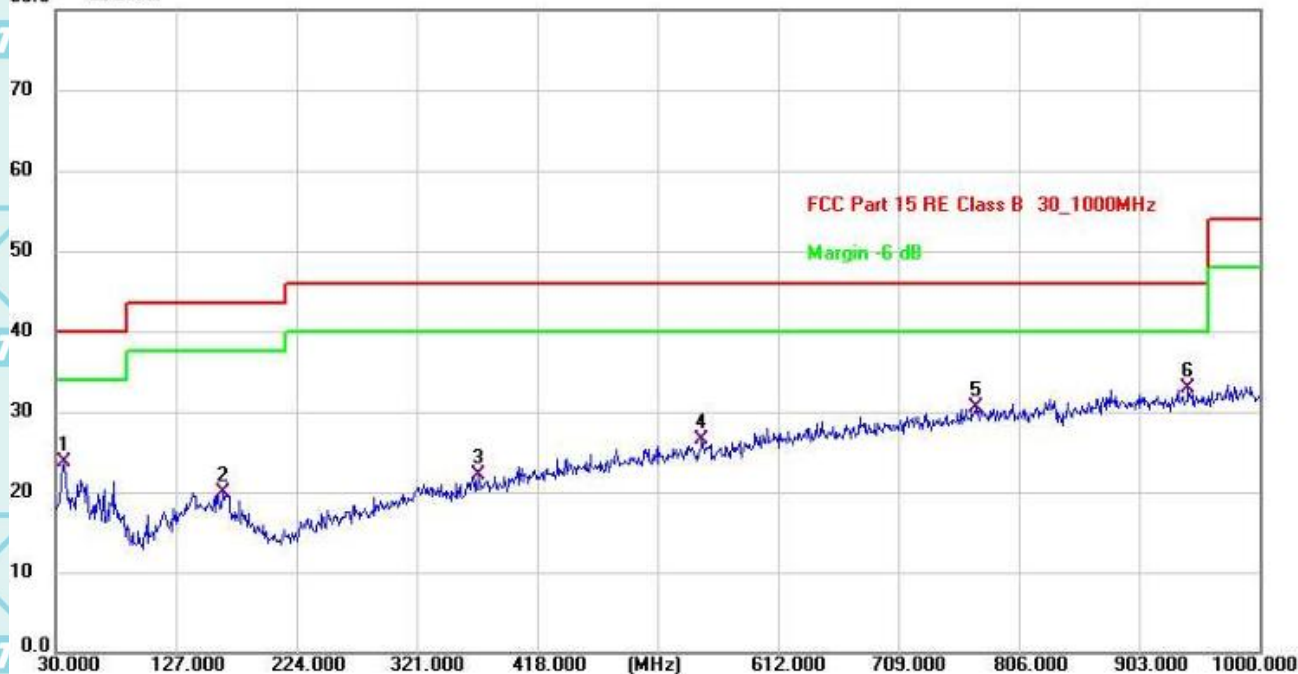
Please refer to following diagram for individual

Below 1GHz

The worst mode is GFSK

Horizontal:

80.0 dBuV/m



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1		36.7900	31.93	-8.24	23.69	40.00	16.31	QP
2		164.8300	26.94	-7.04	19.90	43.50	23.60	QP
3		370.4700	26.68	-4.50	22.18	46.00	23.82	QP
4		550.8900	26.63	-0.09	26.54	46.00	19.46	QP
5		772.0500	26.23	4.18	30.41	46.00	15.59	QP
6	*	942.7700	25.63	7.19	32.82	46.00	13.18	QP

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Revised: None

Vertical:



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1	*	36.7900	53.04	-20.52	32.52	40.00	7.48	QP
2		76.5600	41.92	-20.23	21.69	40.00	18.31	QP
3		289.9600	39.27	-19.30	19.97	46.00	26.03	QP
4		457.7700	43.41	-18.47	24.94	46.00	21.06	QP
5		755.5600	46.94	-16.90	30.04	46.00	15.96	QP
6		957.3200	48.85	-15.57	33.28	46.00	12.72	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)

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Revised: None

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.

The worst mode is GFSK

Low channel: 2402MHz

Horizontal:



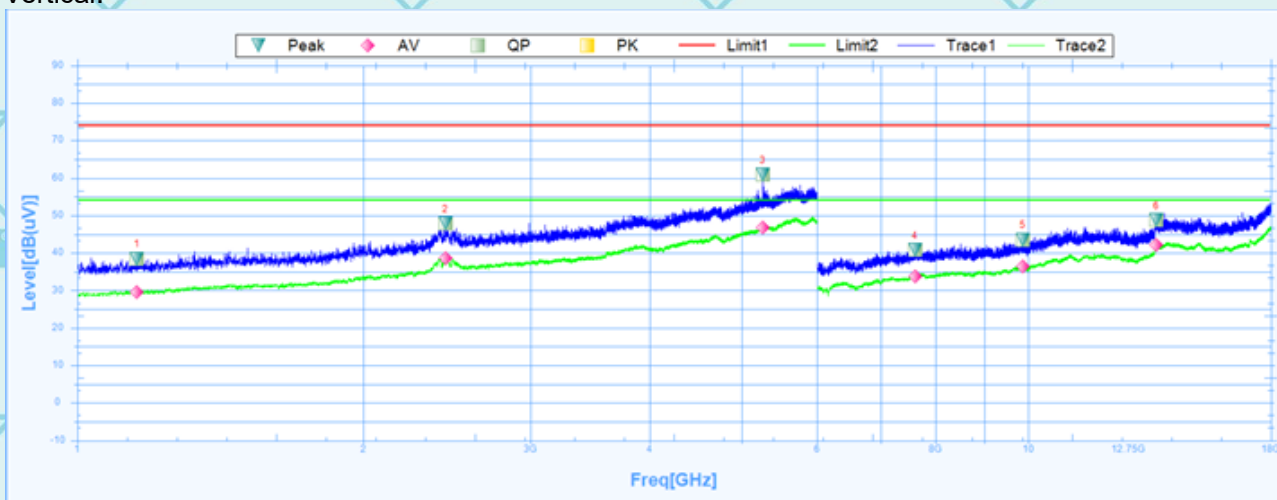
Susputed Data List

NO.	Freq. [MHz]	Level [dB(uV)]	Factor [dB]	Reading [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1334.3750	39.36	24.87	14.49	74	-34.64	145.1	Horizontal	PK	Pass
1	1334.3750	30.3	24.87	5.43	54	-23.7	145.1	Horizontal	AV	Pass
2	2409.3750	45.99	27.29	18.7	74	-28.01	295.8	Horizontal	PK	Pass
2	2409.3750	37.55	27.29	10.26	54	-16.45	295.8	Horizontal	AV	Pass
3	5253.1250	58.08	31.8	26.28	74	-15.92	319.7	Horizontal	PK	Pass
3	5253.1250	46.15	31.8	14.35	54	-7.85	319.7	Horizontal	AV	Pass
4	7207.5000	40.47	6.99	33.48	74	-33.53	48.7	Horizontal	PK	Pass
4	7207.5000	33.14	6.99	26.15	54	-20.86	48.7	Horizontal	AV	Pass
5	10140.0000	44.03	12.79	31.24	74	-29.97	348.4	Horizontal	PK	Pass
5	10140.0000	36.47	12.79	23.68	54	-17.53	348.4	Horizontal	AV	Pass
6	15067.5000	49.72	19.39	30.33	74	-24.28	204.1	Horizontal	PK	Pass
6	15067.5000	42.03	19.39	22.64	54	-11.97	204.1	Horizontal	AV	Pass

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Revised: None

Vertical:



Suspected Data List

NO.	Freq. [MHz]	Level [dB(uV)]	Factor [dB]	Reading [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1155.6250	38.5	24.38	14.12	74	-35.5	251.4	Vertical	PK	Pass
1	1155.6250	29.5	24.38	5.12	54	-24.5	251.4	Vertical	AV	Pass
2	2440.0000	47.86	27.4	20.46	74	-26.14	153.4	Vertical	PK	Pass
2	2440.0000	38.6	27.4	11.2	54	-15.4	153.4	Vertical	AV	Pass
3	5261.2500	60.99	31.81	29.18	74	-13.01	5.4	Vertical	PK	Pass
3	5261.2500	46.89	31.81	15.08	54	-7.11	5.4	Vertical	AV	Pass
4	7602.0000	40.9	7.92	32.98	74	-33.1	162.3	Vertical	PK	Pass
4	7602.0000	33.66	7.92	25.74	54	-20.34	162.3	Vertical	AV	Pass
5	9874.5000	43.58	12.08	31.5	74	-30.42	189.8	Vertical	PK	Pass
5	9874.5000	36.33	12.08	24.25	54	-17.67	189.8	Vertical	AV	Pass
6	13647.0000	48.83	18.1	30.73	74	-25.17	198.1	Vertical	PK	Pass
6	13647.0000	42.06	18.1	23.96	54	-11.94	198.1	Vertical	AV	Pass