AC Power-Line Conducted Emissions (List)

Results of Conducted Emission

DTNC

Date 2021-10-08

Order No.		Referrence No.	
Model No.	PM75	Power Supply	
Serial No.		Temp/Humi.	23 'C / 47 %
Test Condition	2.4G_b_2412	Operator	S,M.Gil

Memo

LIMIT : FCC P15.207 QP
FCC P15.207 AV

NO	FREQ	READING QP	READING CAV	C.FACTOR	RESULT QP	RESULT CAV	LIMIT QP	LIMIT CAV	MARGIN QP	MARGIN CAV	PHASE
	[MHz]	[dBuV]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dBuV]	[dBuV]	[dBuV]	[dBuV]	
1	0.39927	25.13	18.46	9.91	35.04	28.37	57.87	47.87	22.83	19.50	N
2	0.77118	25.53	14.70	9.92	35.45	24.62	56.00	46.00	20.55	21.38	N
3	1.39097	26.13	13.38	10.05	36.18	23.43	56.00	46.00	19.82	22.57	N
4	18.89414	13.20	6.34	10.44	23.64	16.78	60.00	50.00	36.36	33.22	N
5	0.39640	25.21	15.64	9.91	35.12	25.55	57.93	47.93	22.81	22.38	L
6	0.79320	24.29	15.36	9.92	34.21	25.28	56.00	46.00	21.79	20.72	L
7	1.51686	26.04	13.55	10.06	36.10	23.61	56.00	46.00	19.90	22.39	L
8	18.84074	18.46	6.93	10.44	28.90	17.37	60.00	50.00	31.10	32.63	L

5.7. Occupied Bandwidth

▣ **Test Requirements, RSS-Gen [6.7]**

When an occupied bandwidth value is not specified in the applicable RSS, the transmitted signal bandwidth to be reported is to be its 99 % emission bandwidth, as calculated or measured.

5.7.1. Test Setup

Refer to the APPENDIX I.

5.7.2. Test Procedures

The 99 % power bandwidth was measured with a calibrated spectrum analyzer.

The resolution bandwidth (RBW) shall be in the range of 1 % to 5 % of the occupied bandwidth (OBW) and video bandwidth (VBW) shall be approximately 3 × RBW.

5.7.3. Test Results

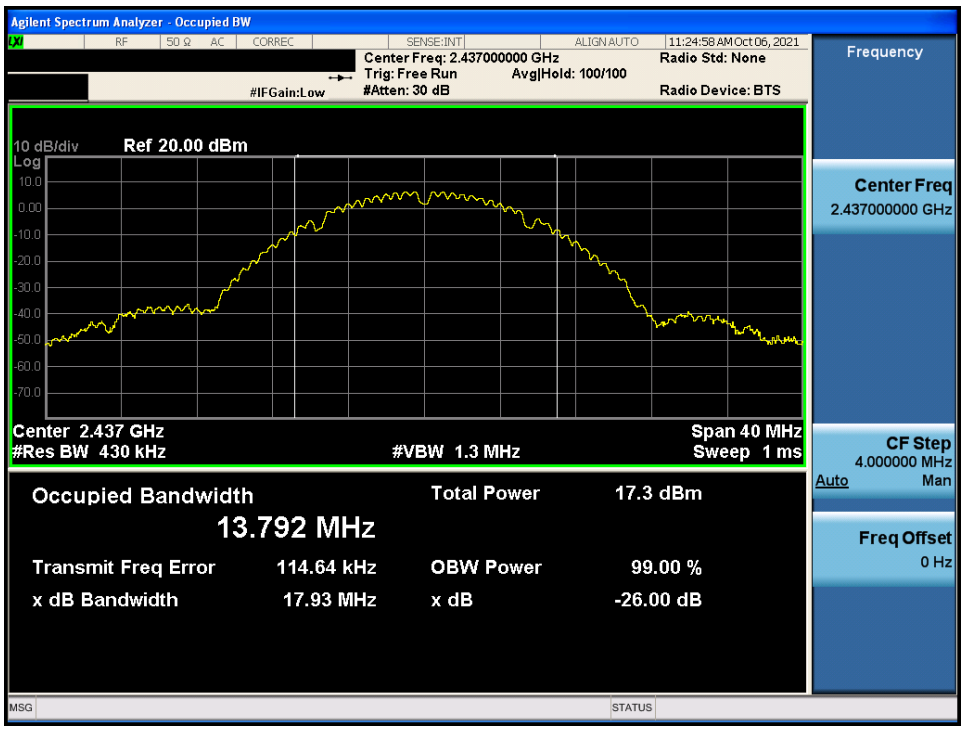
Test Mode	Frequency	Test Results (MHz)
TM 1	2 412	13.64
	2 437	13.79
	2 462	13.53
TM 2	2 412	16.94
	2 437	17.03
	2 462	16.93
TM 3	2 412	18.08
	2 437	18.17
	2 462	17.96
TM 4	2 422	36.84
	2 437	37.05
	2 452	36.61

Occupied Bandwidth

TM 1 & 2 412

Occupied Bandwidth

TM 1 & 2 437

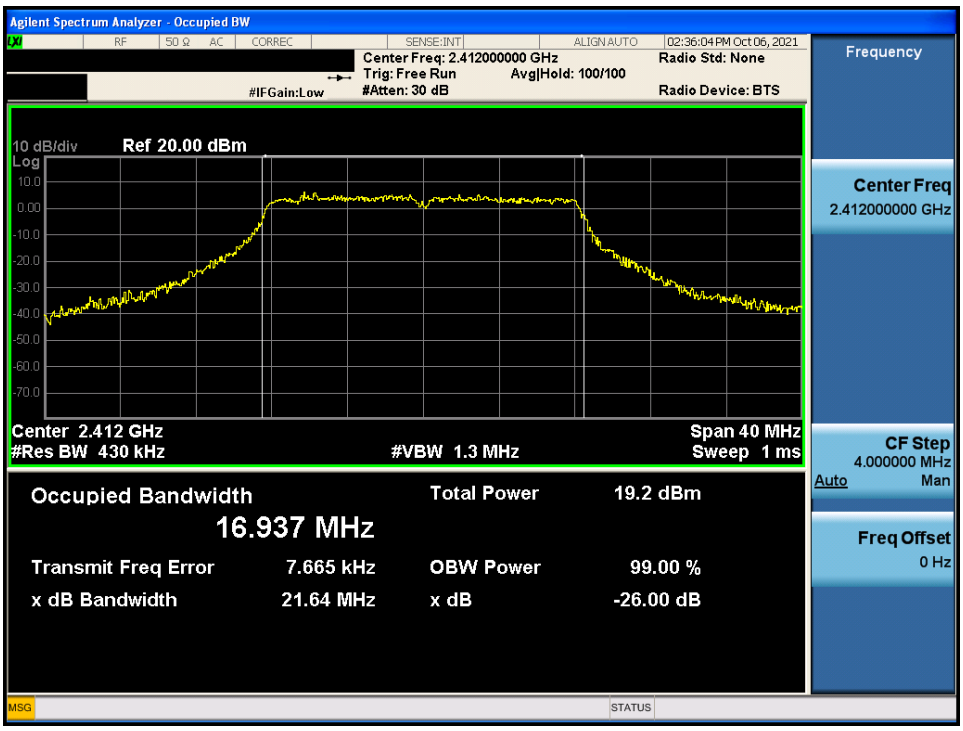


Occupied Bandwidth

TM 1 & 2 462

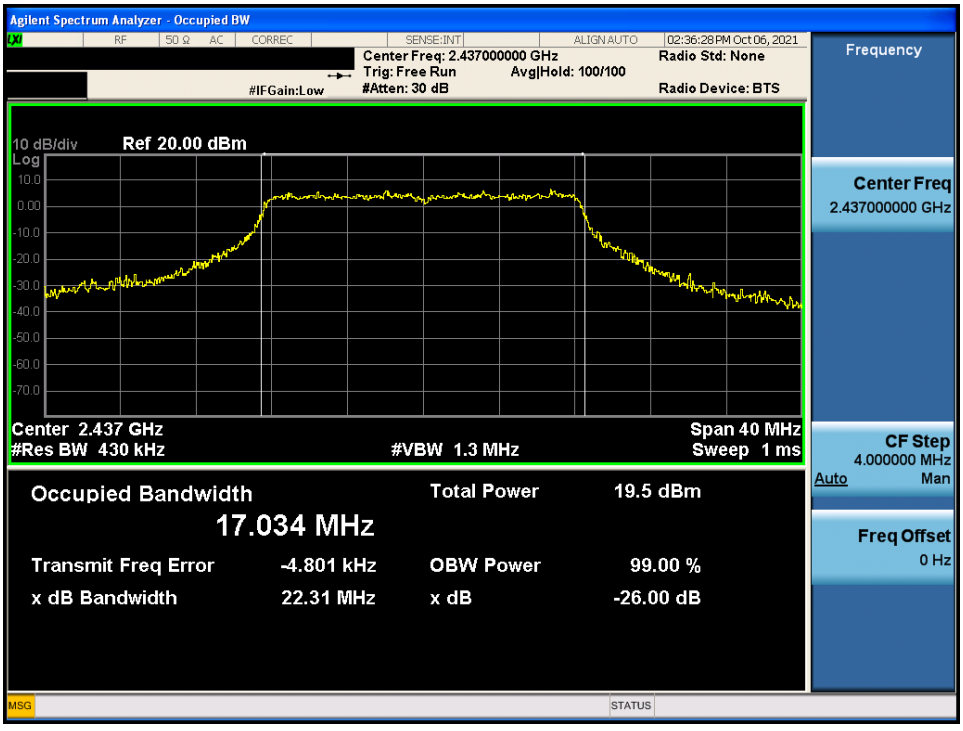
Occupied Bandwidth

TM 2 & 2 412



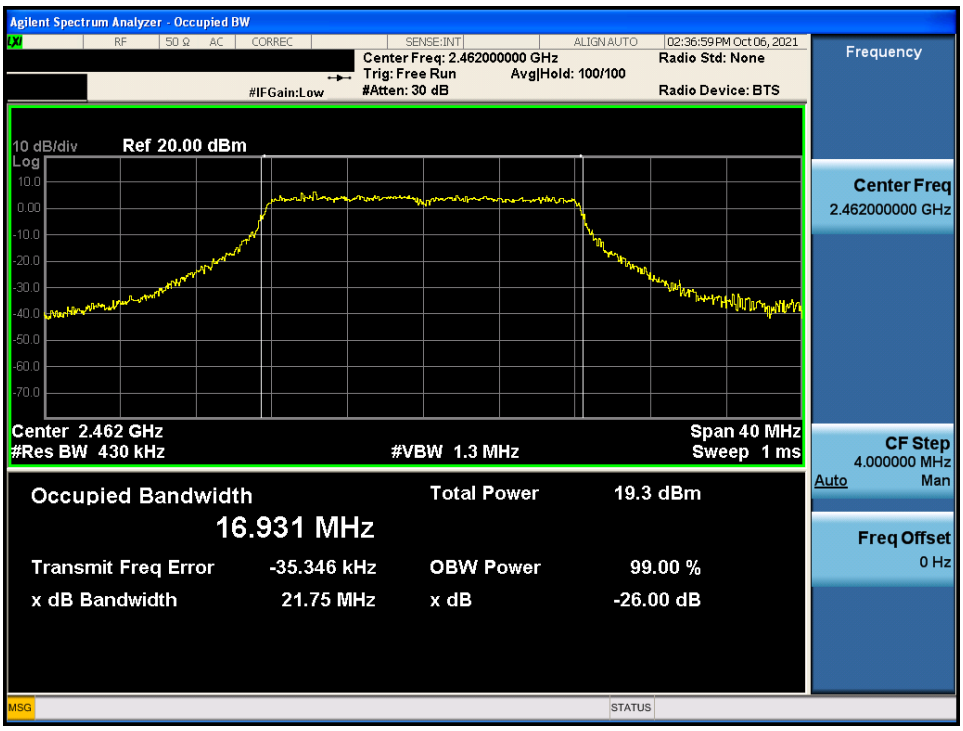
Occupied Bandwidth

TM 2 & 2 437



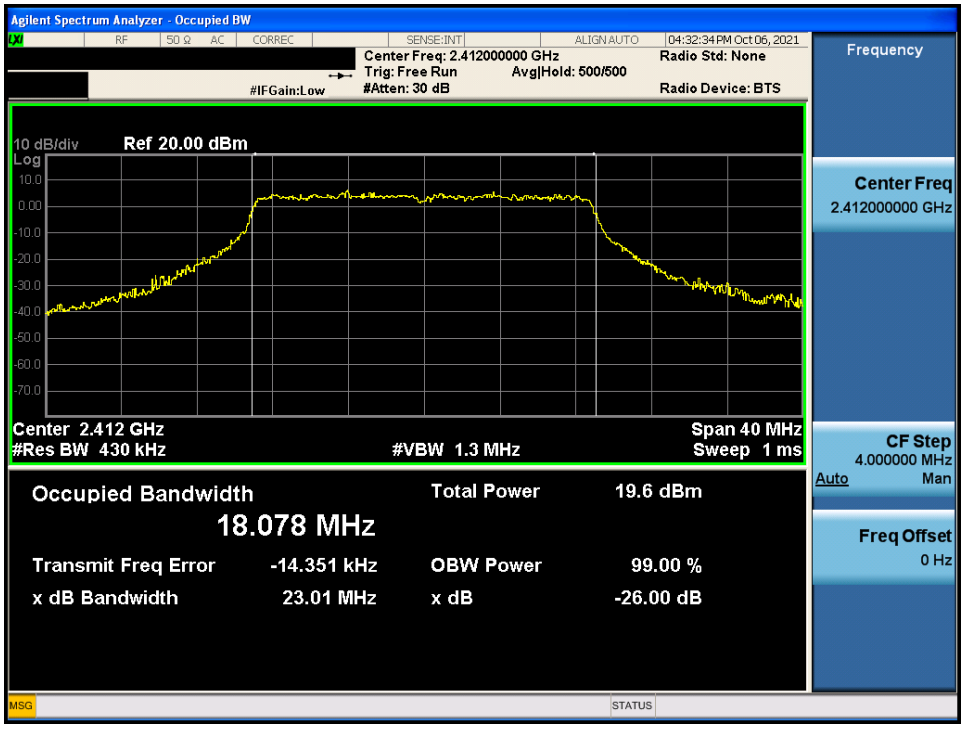
Occupied Bandwidth

TM 2 & 2 462



Occupied Bandwidth

TM 3 & 2 412

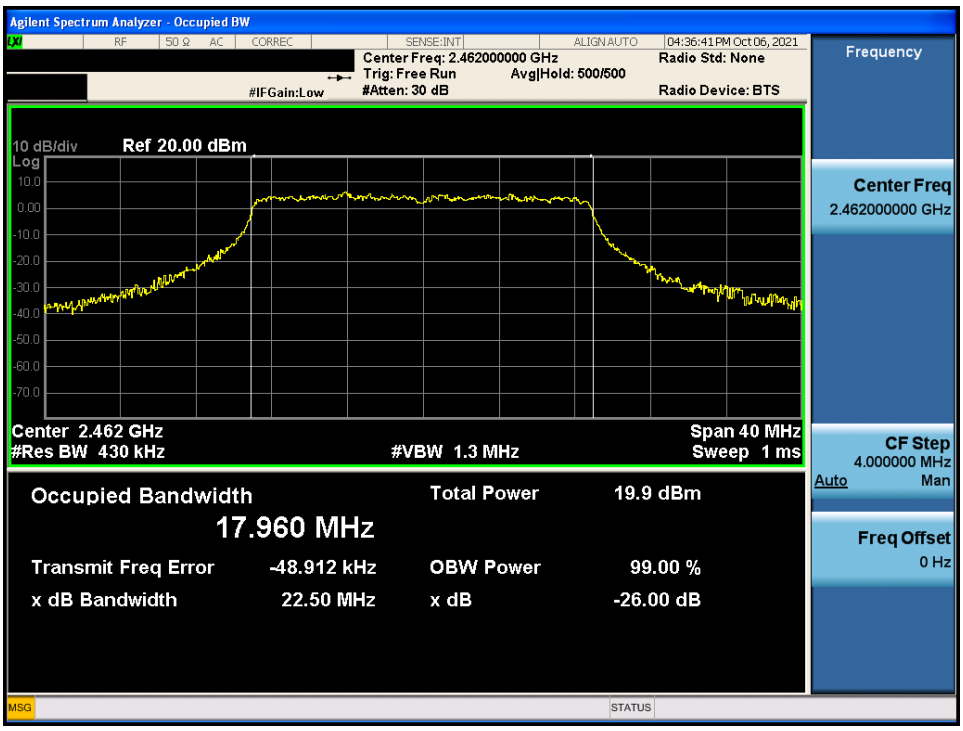


Occupied Bandwidth

TM 3 & 2 437

Occupied Bandwidth

TM 3 & 2 462

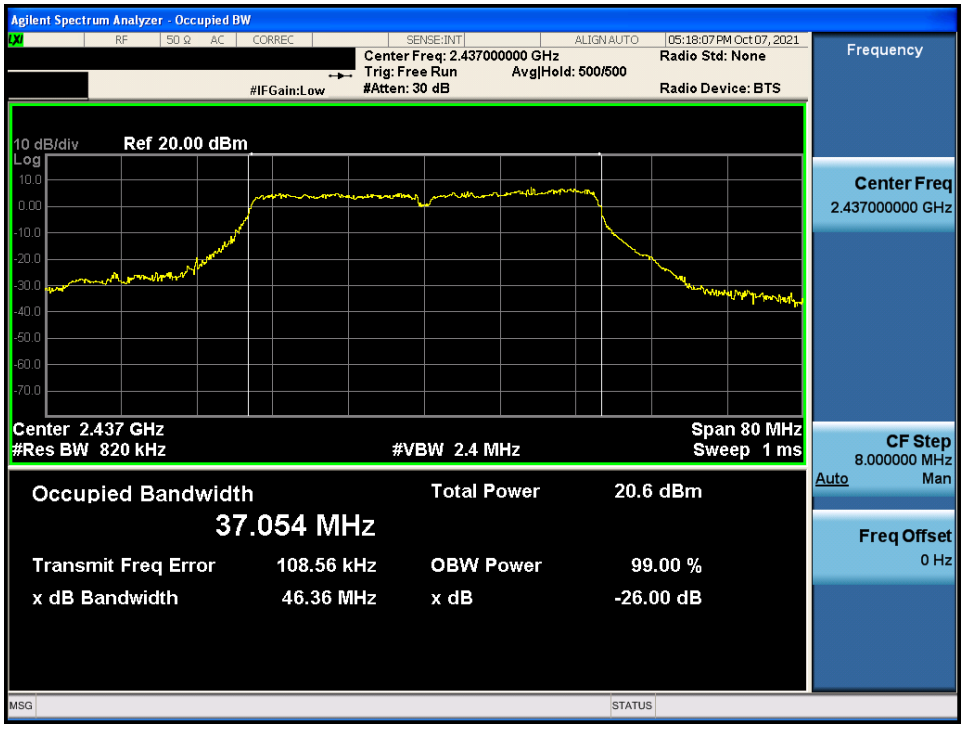


Occupied Bandwidth

TM 4 & 2422

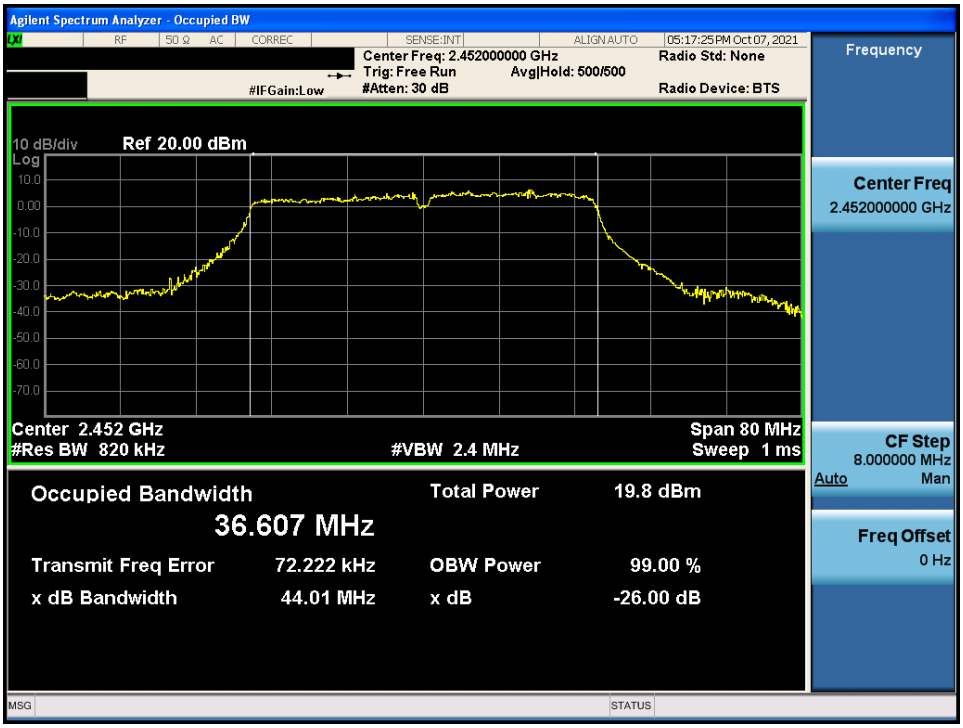
Occupied Bandwidth

TM 4 & 2 437



Occupied Bandwidth

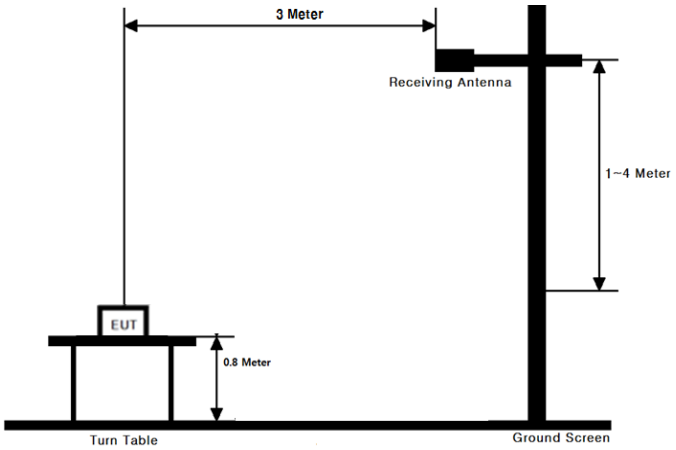
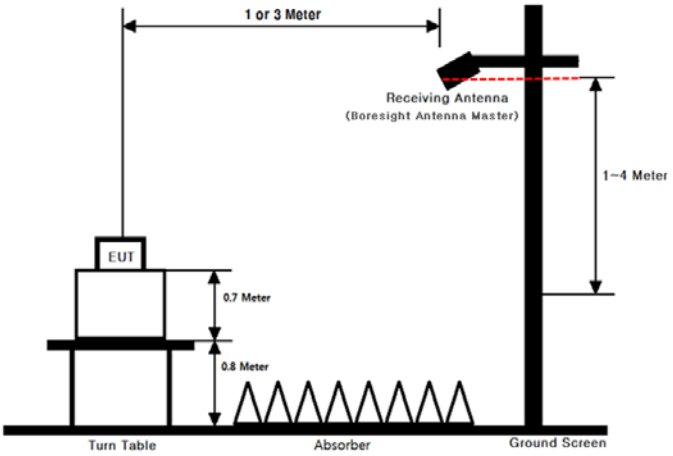
TM 4 & 2 452



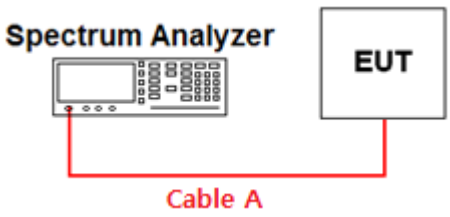
APPENDIX I

Test set up diagrams

- **Radiated Measurement**

Below 1 GHz	Above 1 GHz
	

- **Conducted Measurement**



APPENDIX II

Duty cycle plots

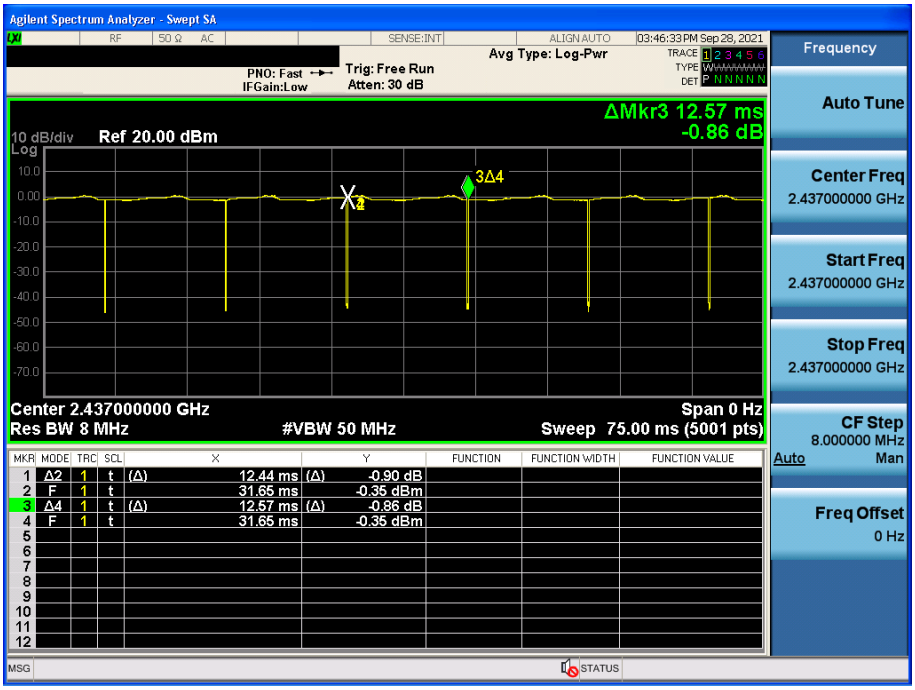
- **Test Procedures**

- KDB558074 D01v05r02 – Section 6

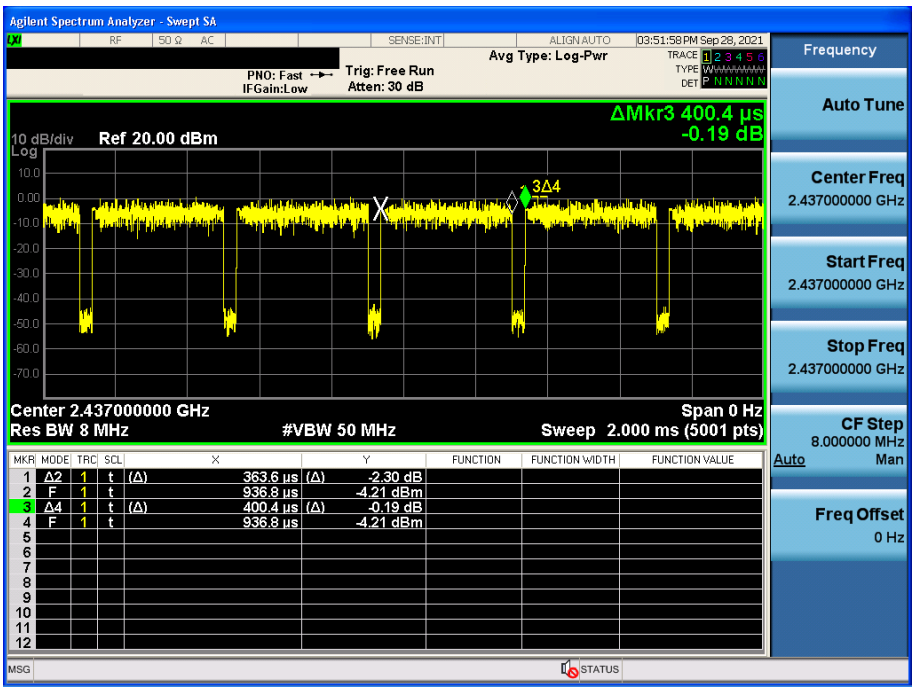
The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the on and off times of the transmitted signal. Set the center frequency of the instrument to the center frequency of the transmission. Set RBW ≥ OBW if possible; otherwise, set RBW to the largest available value. Set VBW ≥ RBW. Set detector = peak or average.

The zero-span measurement method shall not be used unless both RBW and VBW are > 50 /T and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring duty cycle shall not be used if T ≤ 16.7 microseconds.)

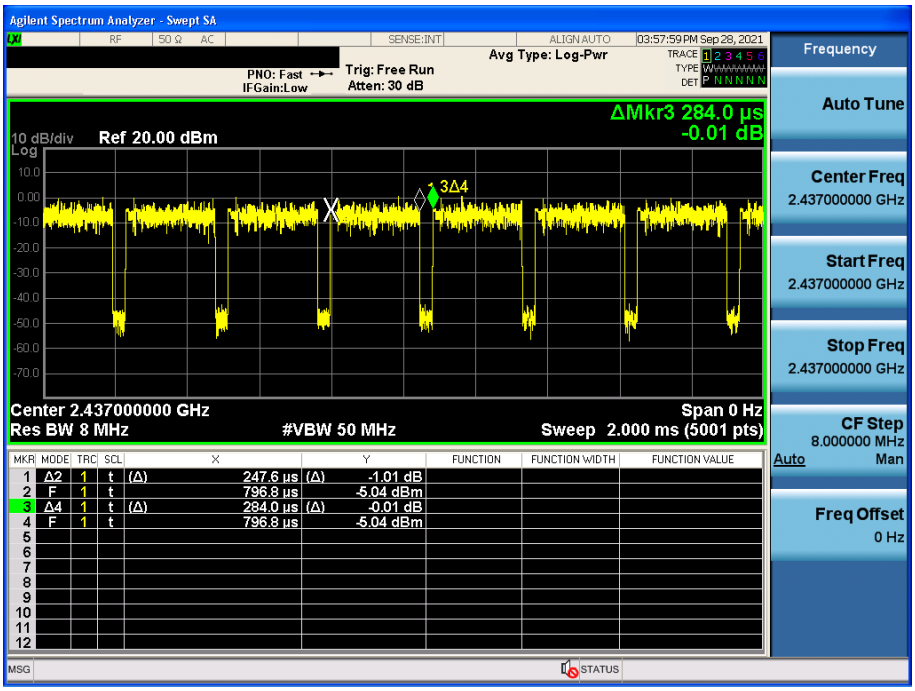
Duty Cycle TM 1 & 2 437 MHz



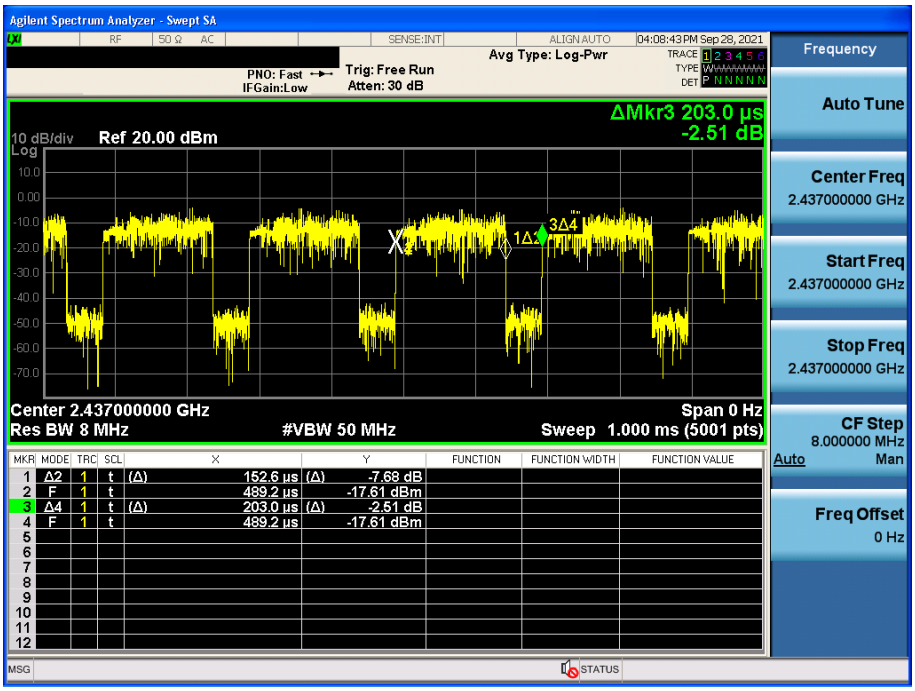
Duty Cycle TM 2 & 2 437 MHz



Duty Cycle TM 3 & 2 437 MHz



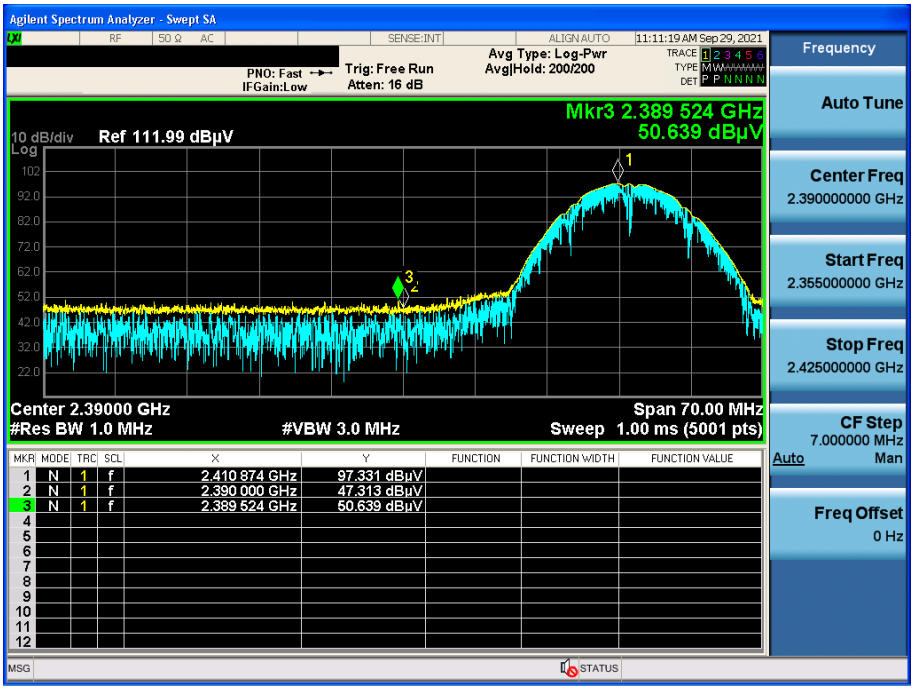
Duty Cycle TM 4 & 2 437 MHz



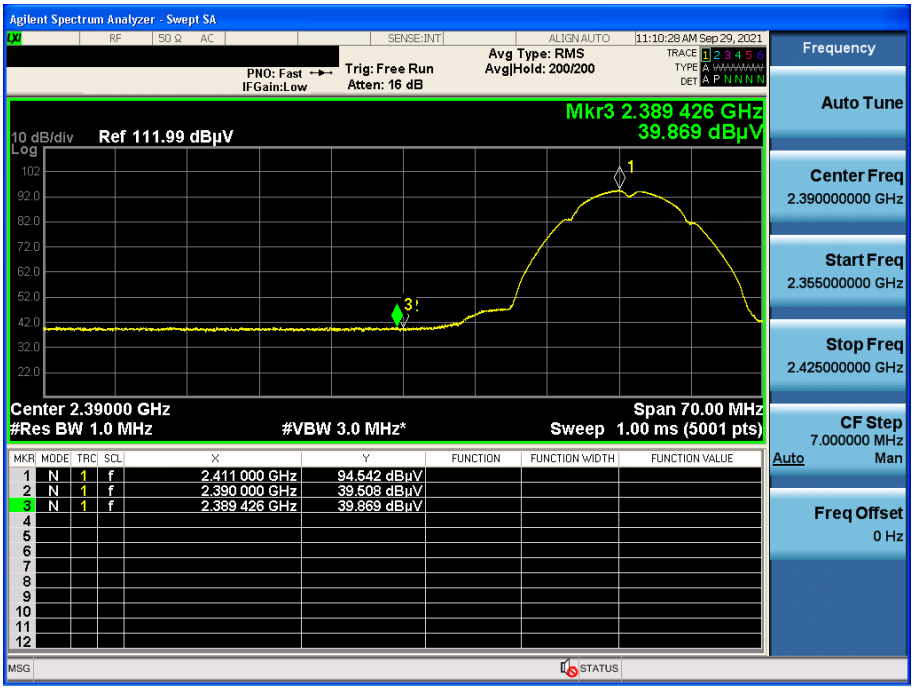
APPENDIX III

Unwanted Emissions (Radiated) Test Plot

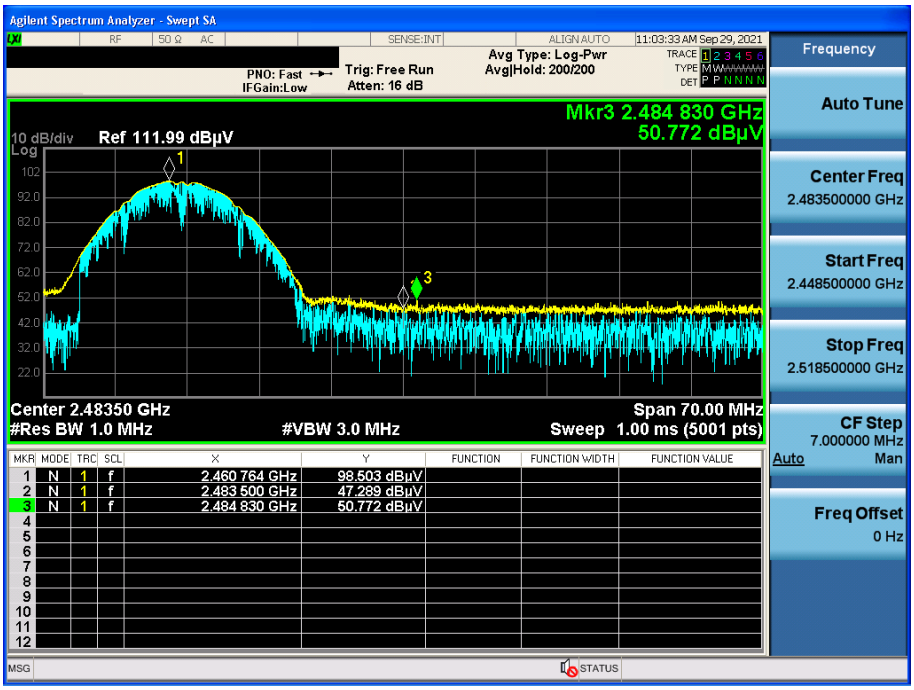
TM 1 & 2 412 & X axis & Hor **Detector Mode : PK**



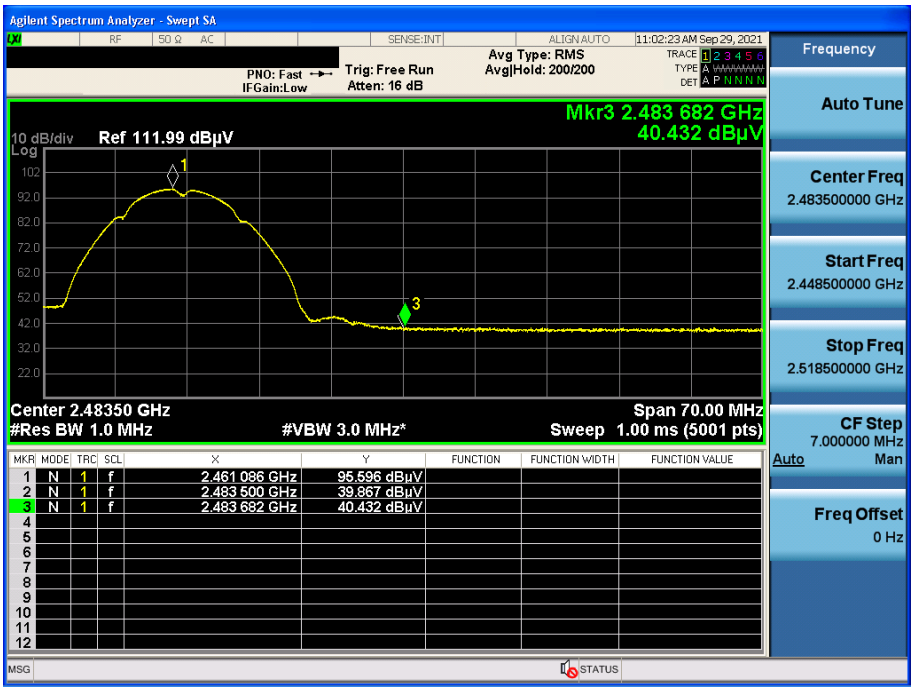
TM 1 & 2 412 & X axis & Hor **Detector Mode : AV**



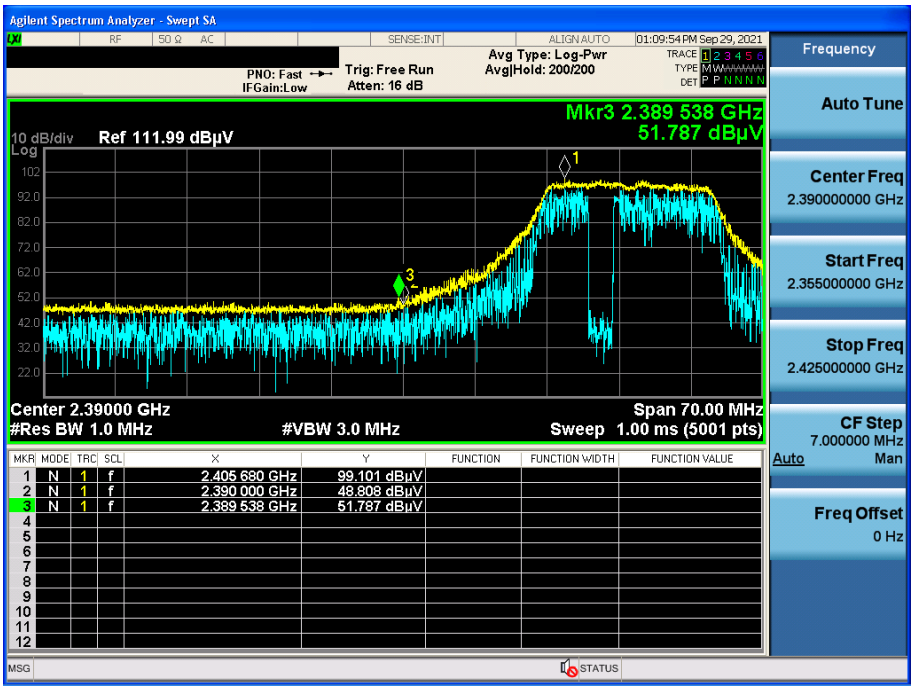
TM 1 & 2 462 & X axis & Hor **Detector Mode : PK**



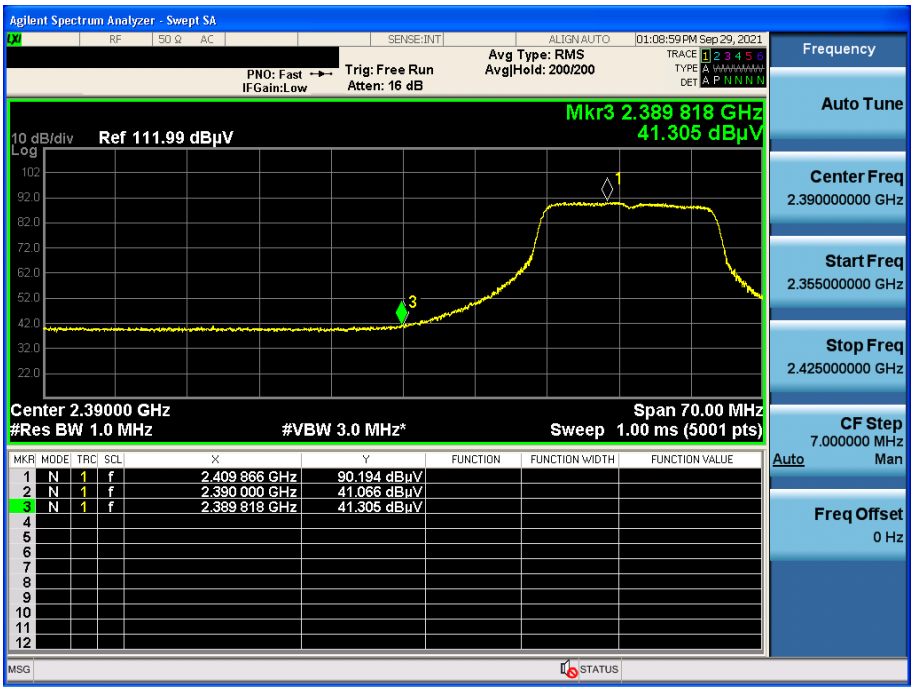
TM 1 & 2 462 & X axis & Hor **Detector Mode : AV**



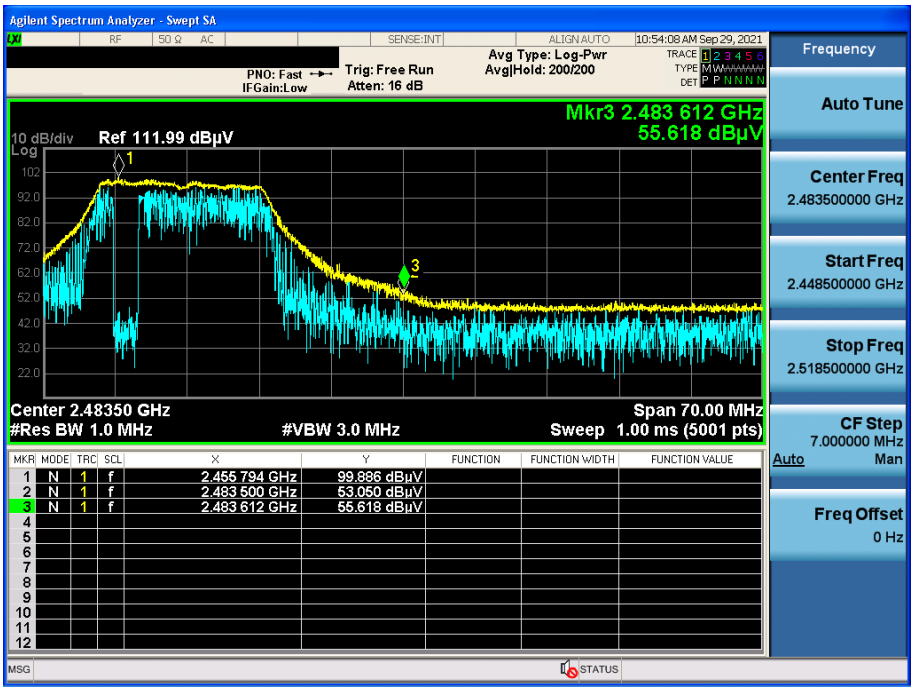
TM 2 & 2 412 & X axis & Hor **Detector Mode : PK**



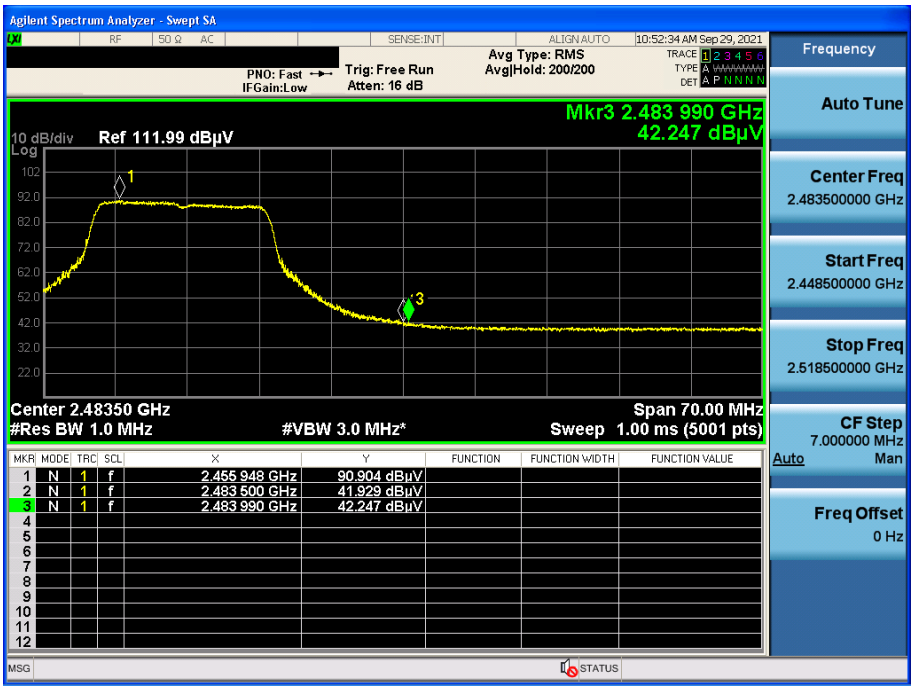
TM 2 & 2 412 & X axis & Hor **Detector Mode : AV**



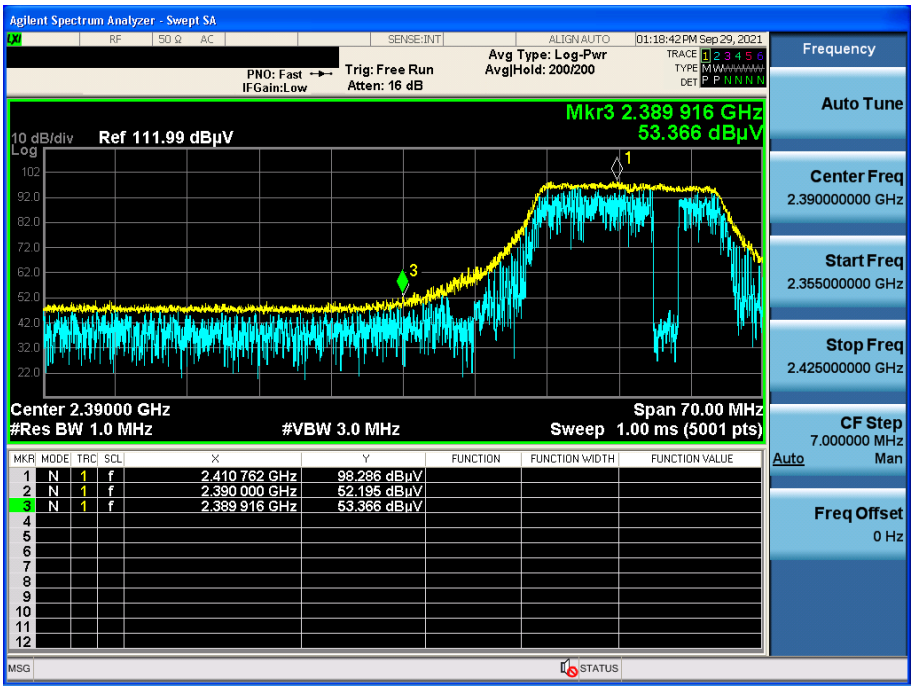
TM 2 & 2 462 & X axis & Hor **Detector Mode : PK**



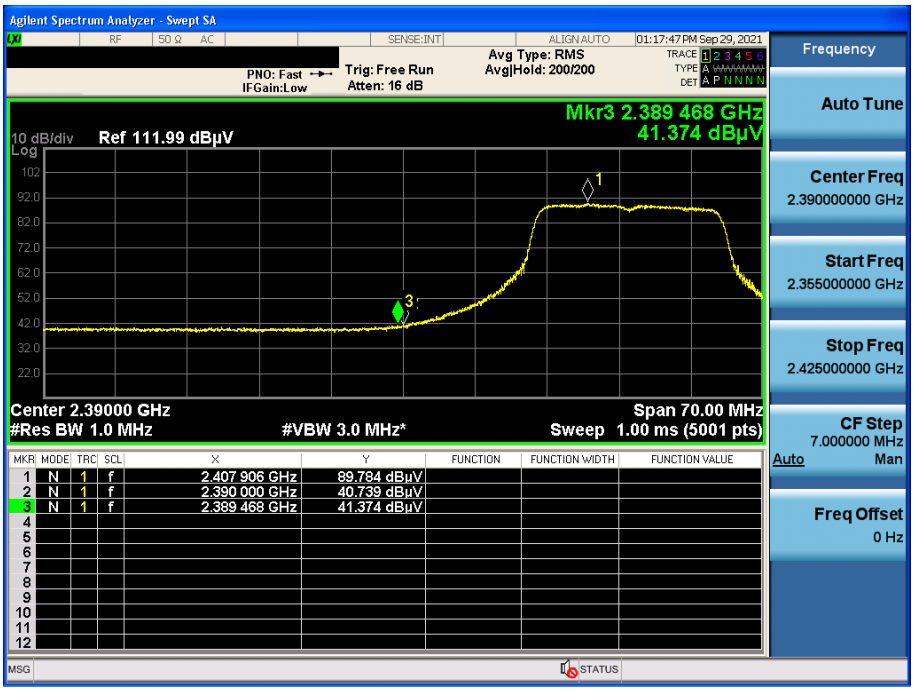
TM 2 & 2 462 & X axis & Hor **Detector Mode : AV**



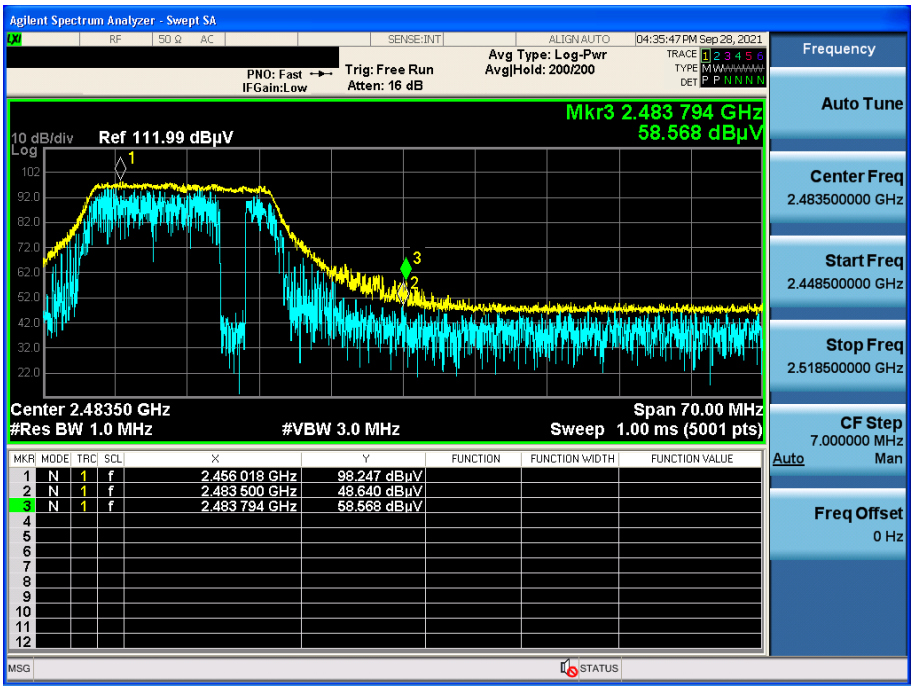
TM 3 & 2 412 & X axis & Hor **Detector Mode : PK**



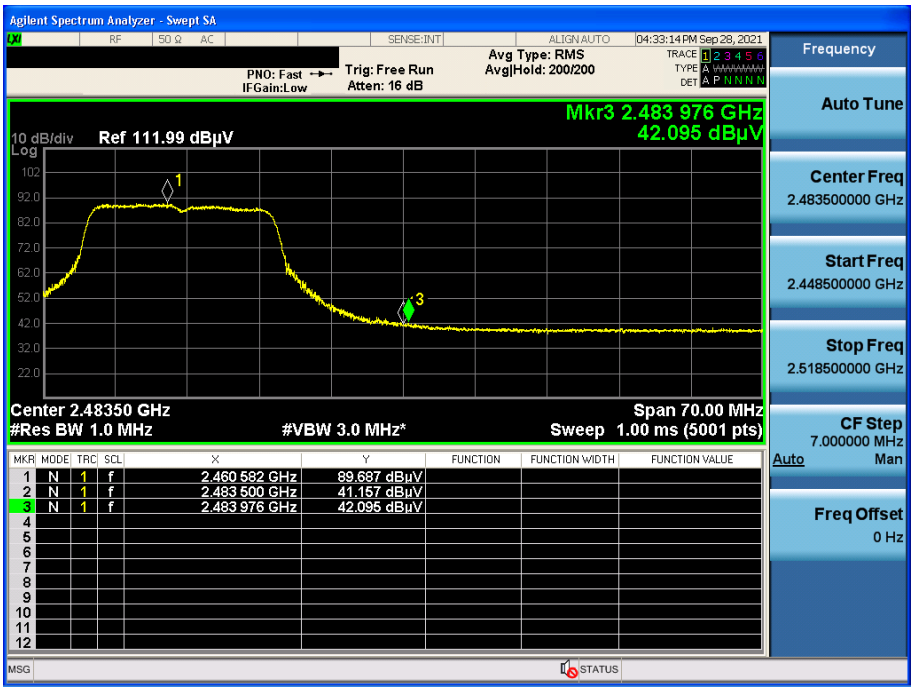
TM 3 & 2 412 & X axis & Hor **Detector Mode : AV**



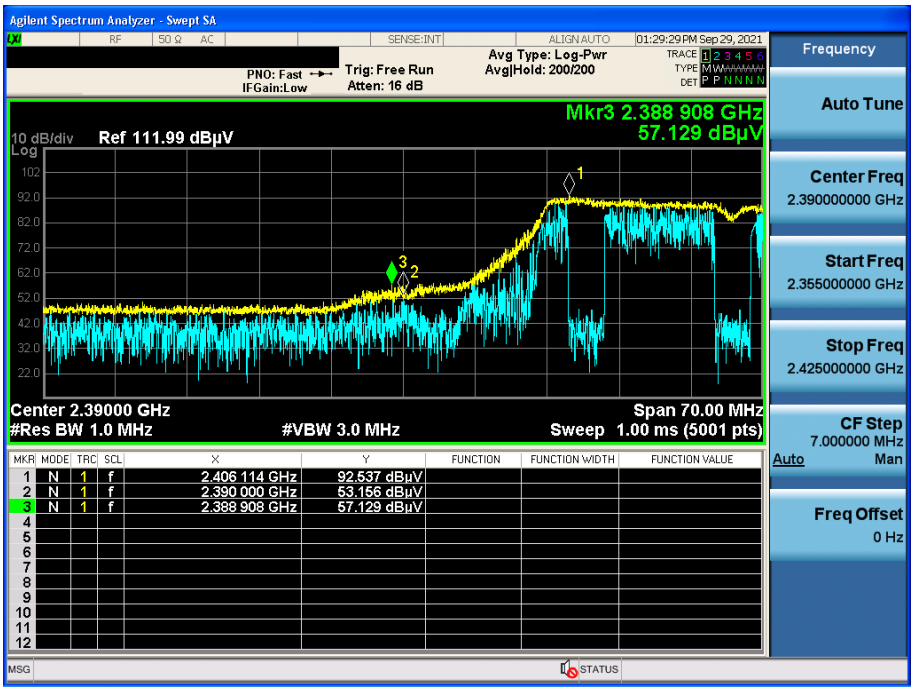
TM 3 & 2 462 & X axis & Hor **Detector Mode : PK**



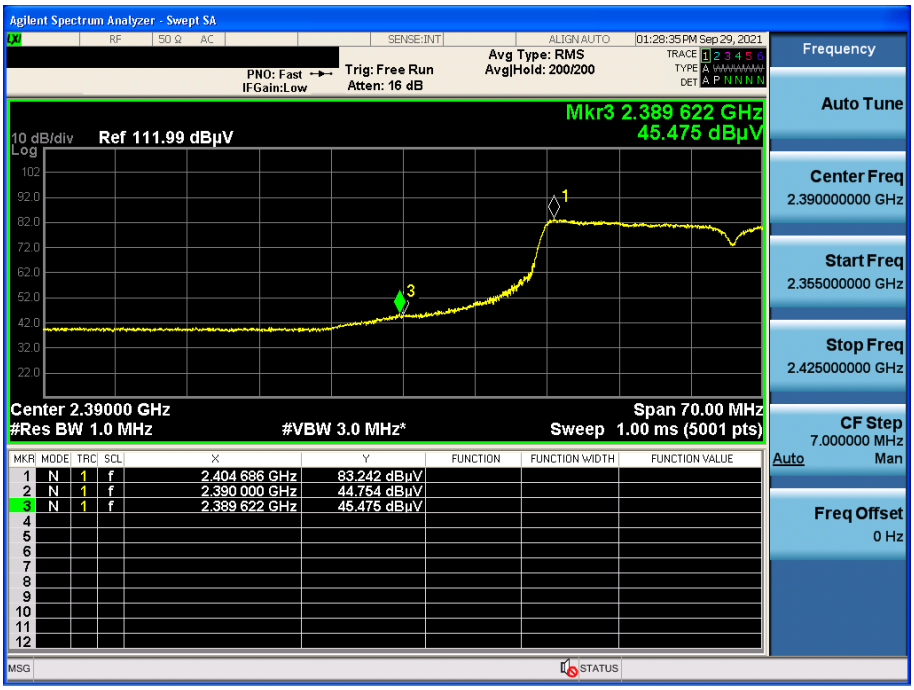
TM 3 & 2 462 & X axis & Hor **Detector Mode : AV**



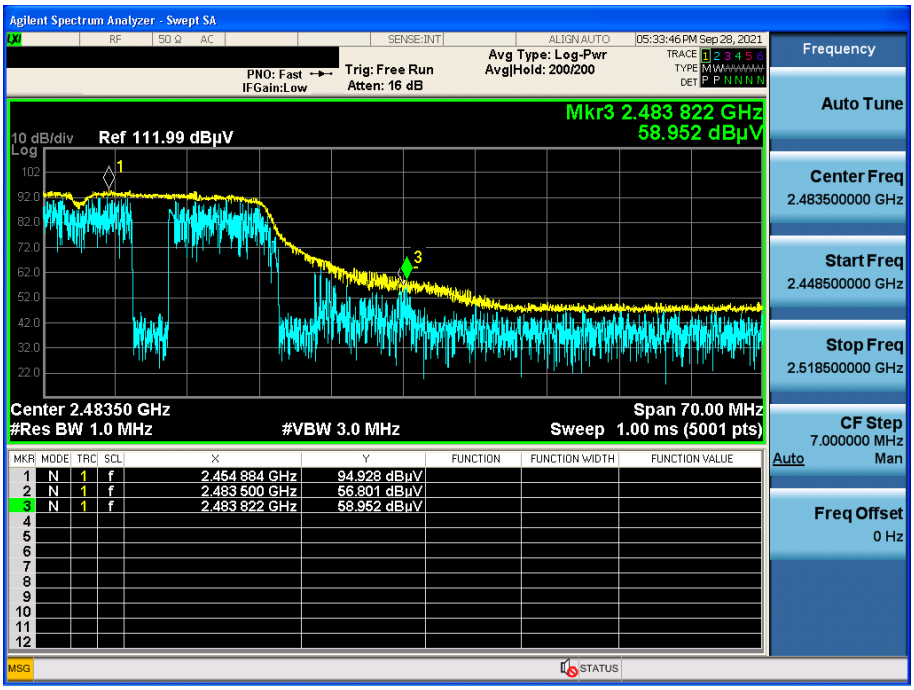
TM 4 & 2 422 & X axis & Hor **Detector Mode : PK**



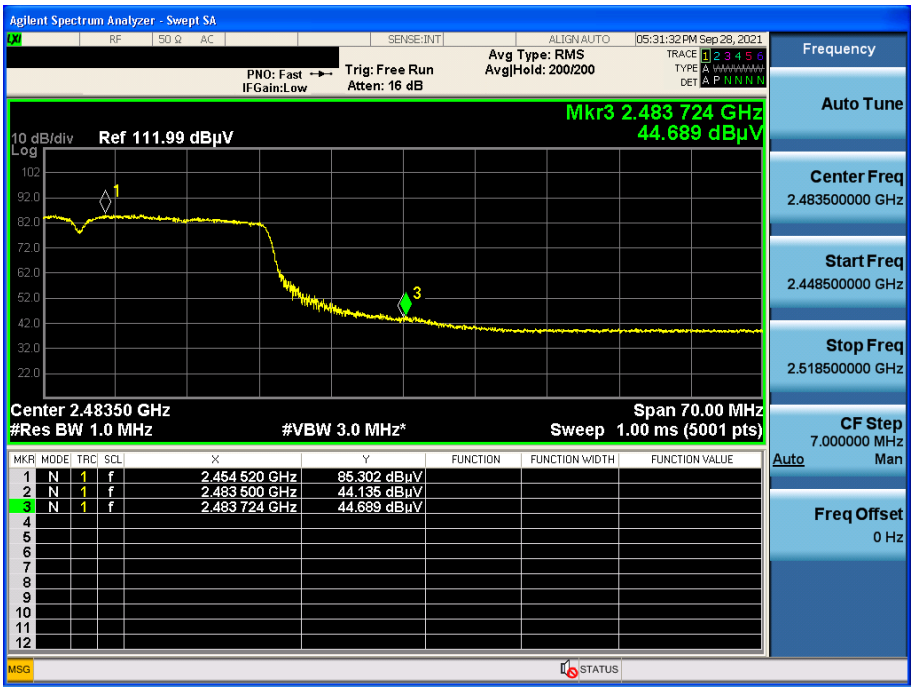
TM 4 & 2 422 & X axis & Hor **Detector Mode : AV**



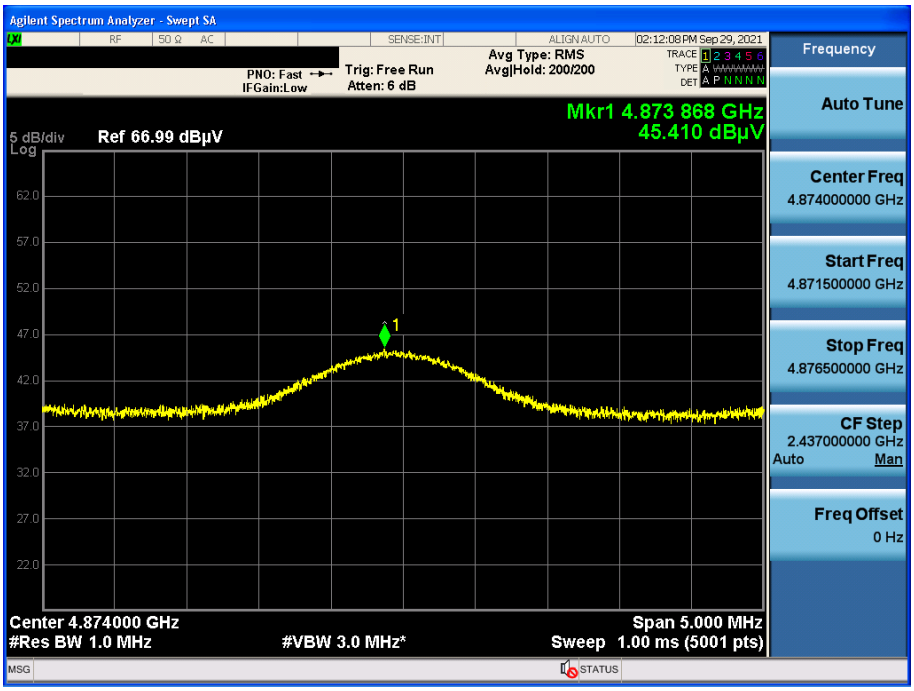
TM 4 & 2 452 & X axis & Hor **Detector Mode : PK**



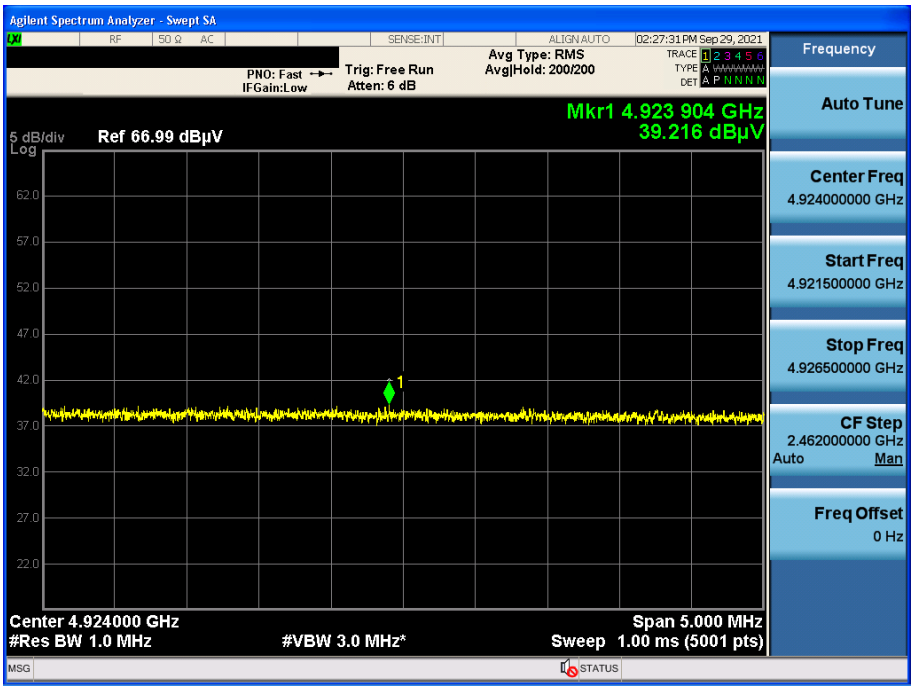
TM 4 & 2 452 & X axis & Hor **Detector Mode : AV**



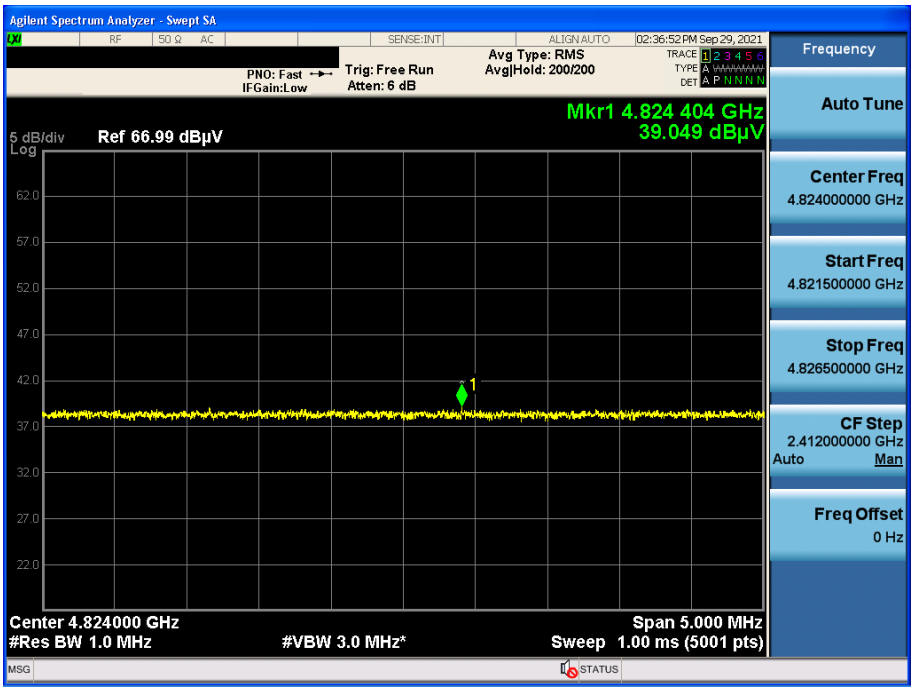
TM 1 & 2 437 & Z axis & Ver **Detector Mode : AV**



TM 2 & 2 462 & Z axis & Ver **Detector Mode : AV**



TM 3 & 2 412 & Z axis & Ver **Detector Mode : AV**



TM 4 & 2 452 & Z axis & Ver **Detector Mode : AV**