Maximum Power Spectral Density

Test Mode: TM 4 & ANT 2 & Ch.106

Maximum Power Spectral Density

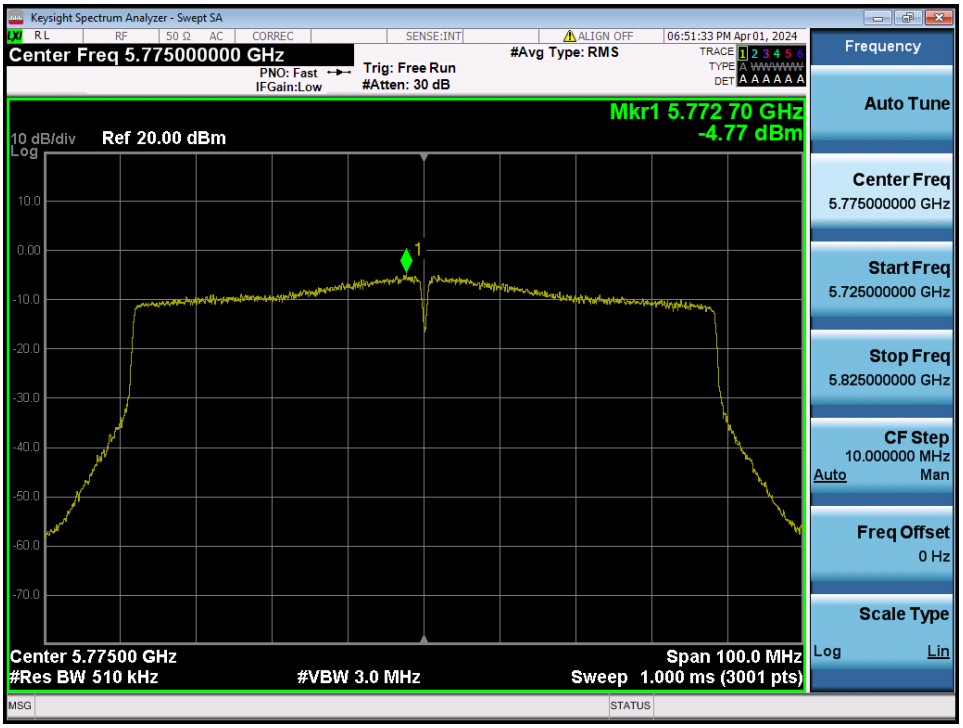
Test Mode: TM 4 & ANT 2 & Ch.122

Maximum Power Spectral Density

Test Mode: TM 4 & ANT 2 & Ch.138

Maximum Power Spectral Density

Test Mode: TM 4 & ANT 2 & Ch.155



Maximum Power Spectral Density

Test Mode: TM 5 & ANT 2 & Ch.50

Maximum Power Spectral Density

Test Mode: TM 5 & ANT 2 & Ch.114

5.5 Unwanted Emissions

▣ Test Requirements

- Part 15.407(b)

Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

(1) For transmitters operating in the **5.15 GHz - 5.25 GHz band**: all emissions outside of the **5.15 GHz - 5.35 GHz band** shall not exceed an **EIRP of -27 dBm/MHz**.

(2) For transmitters operating in the **5.25 GHz - 5.35 GHz band**: all emissions outside of the **5.15 GHz - 5.35 GHz band** shall not exceed an **EIRP of -27 dBm/MHz**.

(3) For transmitters operating in the **5.47 GHz - 5.725 GHz band**: all emissions outside of the **5.47 GHz - 5.725 GHz band** shall not exceed an **EIRP of -27 dBm/MHz.**

(4) For transmitters operating in the **5.725 GHz - 5.85 GHz band**: (i) All emissions shall be limited to a level of −27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge. The emission measurements shall be performed using a minimum resolution bandwidth of 1 MHz. A lower resolution bandwidth may be employed near the band edge, when necessary, provided the measured energy is integrated to show the total power over 1 MHz.

(5) Unwanted emissions **below 1 GHz** must comply with the general field strength limits set forth in **Section 15.209**.
Further, any U-NII devices using an **AC power line** are required to comply also with the conducted limits set forth in **Section 15.207**.

- Part 15.209 : General requirements

Frequency (MHz)	FCC Limit (uV/m)	Measurement Distance (m)
0.009 – 0.490	2 400 / F (kHz)	300
0.490 – 1.705	24 000 / F (kHz)	30
1.705 – 30.0	30	30

Frequency (MHz)	FCC Limit (uV/m)	Measurement Distance (m)
30 ~ 88	100 **	3
88 ~ 216	150 **	3
216 ~ 960	200 **	3
Above 960	500	3

**Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§15.231 and 15.241.

- Part 15.205(a): Restricted band of operation

MHz	MHz	MHz	MHz	GHz	GHz
0.009 ~ 0.110	8.414 25 ~ 8.414 75	108 ~ 121.94	1 300 ~ 1 427	4.5 ~ 5.15	14.47 ~ 14.5
0.495 ~ 0.505	12.29 ~ 12.293	123 ~ 138	1 435 ~ 1 626.5	5.35 ~ 5.46	15.35 ~ 16.2
2.173 5 ~ 2.190 5	12.519 75 ~ 12.520 25	149.9 ~ 150.05	1 645.5 ~ 1 646.5	7.25 ~ 7.75	17.7 ~ 21.4
4.125 ~ 4.128	12.576 75 ~ 12.577 25	156.524 75 ~ 156.525 25	1 660 ~ 1 710	8.025 ~ 8.5	22.01 ~ 23.12
4.177 25 ~ 4.177 75	13.36 ~ 13.41	156.7 ~ 156.9	1 718.8 ~ 1 722.2	9.0 ~ 9.2	23.6 ~ 24.0
4.207 25 ~ 4.207 75	16.42 ~ 16.423	162.012 5 ~ 167.17	2 200 ~ 2 300	9.3 ~ 9.5	31.2 ~ 31.8
6.215 ~ 6.218	16.694 75 ~ 16.695 25	167.72 ~ 173.2	2 310 ~ 2 390	10.6 ~ 12.7	36.43 ~ 36.5
6.267 75 ~ 6.268 25	16.804 25 ~ 16.804 75	240 ~ 285	2 483.5 ~ 2 500	13.25 ~ 13.4	Above 38.6
6.311 75 ~ 6.312 25	25.5 ~ 25.67	322 ~ 335.4	2 655 ~ 2 900		
8.291 ~ 8.294	37.5 ~ 38.25	399.90 ~ 410	3 260 ~ 3 267		
8.362 ~ 8.366	73 ~ 74.6	608 ~ 614	3 332 ~ 3 339		
8.376 25 ~ 8.386 75	74.8 ~ 75.2	960 ~ 1 240	3 345.8 ~ 3 358		
			3 600 ~ 4 400		

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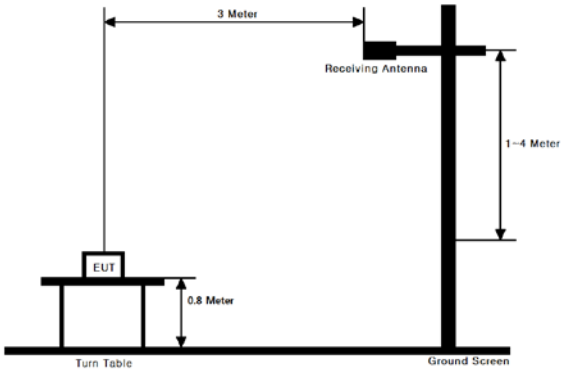
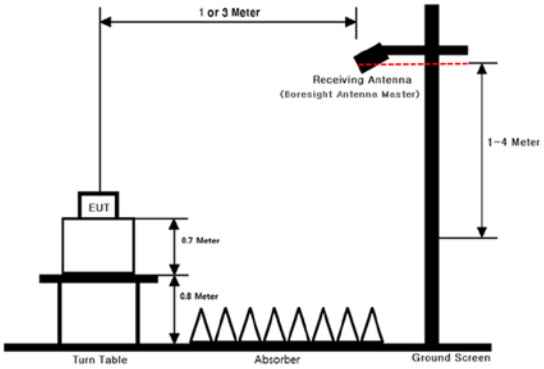
▣ Test Configuration

Below 1 GHz	Above 1 GHz
	

▣ Test Procedure

1. The EUT is placed on a non-conductive table. For emission measurements at or below 1 GHz, the table height is 80 cm. For emission measurements above 1 GHz, the table height is 1.5 m.
2. The turn table shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 1 m or 3 m away from the receiving antenna, which is varied from 1 m to 4 m to find out the highest emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until the measurements for all frequencies are complete.

Radiated spurious emission measured using following Measurement Procedure **of KDB789033 D02v02r01**

► General Requirements for Unwanted Emissions Measurements

The following requirements apply to all unwanted emissions measurements, both in and outside of the restricted bands:

- EUT Duty Cycle

(1) The EUT shall be configured or modified to **transmit continuously** except as stated in (ii), below. The intent is to test at 100 percent duty cycle; however a small reduction in duty cycle (**to no lower than 98 percent**) is permitted if required by the EUT for amplitude control purposes. Manufacturers are expected to provide software to the test lab to permit such continuous operation.

(2) If **continuous transmission (or at least 98 percent duty cycle) cannot be achieved** due to hardware limitations of the EUT (e.g., overheating), the following additions to the measurement and reporting procedures are required:

- The EUT shall be configured to operate at the maximum achievable duty cycle.
- Measure the duty cycle, x, of the transmitter output signal.
- Adjustments to measurement procedures (e.g., increasing test time and number of traces averaged) shall be performed as described in the procedures below.
- The test report shall include the following additional information:
  - The reason for the duty cycle limitation.
  - The duty cycle achieved for testing and the associated transmit duration and interval between transmissions.
  - The sweep time and the amount of time used for trace stabilization during max-hold measurements for peak emission measurements.

(3) Reduction of the measured emission amplitude levels to account for operational duty factor is not permitted. Compliance is based on emission levels occurring during transmission - not on an average across on and off times of the transmitter.

► **Measurements below 1 000 MHz**

a) Follow the requirements in section II.G.3, "General Requirements for Unwanted Emissions Measurements".

b) Compliance shall be demonstrated using **CISPR quasi-peak detection**; however, **peak detection** is permitted as an alternative to quasi-peak detection.

► Measurements Above 1 000 MHz (Peak)

a) Follow the requirements in section II.G.3, "General Requirements for Unwanted Emissions Measurements".

b) Peak emission levels are measured by setting the analyzer as follows:

(i) **RBW = 1 MHz.**

(ii) **VBW ≥ 3 MHz.**

(iii) **Detector = Peak.**

(iv) Sweep time = Auto.

(v) Trace mode = Max hold.

(vi) Allow sweeps to continue until the trace stabilizes. Note that if the transmission is not continuous, the time required for the trace to stabilize will increase by a factor of approximately 1/x, where x is the duty cycle. For example, at 50 percent duty cycle, the measurement time will increase by a factor of two relative to measurement time for continuous transmission.

► **Measurements Above 1000 MHz (Method AD)**

(i) **RBW = 1 MHz.**

(ii) **VBW ≥ 3 MHz.**

(iii) **Detector = RMS**, if span / (# of points in sweep) ≤ RBW / 2. Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If the condition is not satisfied, the detector mode shall be set to peak.

(iv) Averaging type = power (i.e., RMS)

- As an alternative, the detector and averaging type may be set for linear voltage averaging. Some analyzers require linear display mode in order to use linear voltage averaging. Log or dB averaging shall not be used.

(v) Sweep time = Auto.

(vi) Perform a trace average of at least 100 traces if the transmission is continuous. If the transmission is not continuous, the number of traces shall be increased by a factor of 1/x, where x is the duty cycle. For example, with 50 percent duty cycle, at least 200 traces shall be averaged.

(vii) If tests are performed with the EUT transmitting at a duty cycle less than 98 percent, a correction factor shall be added to the measurement results prior to comparing to the emission limit in order to compute the emission level that would have been measured had the test been performed at 100 percent duty cycle. The correction factor is computed as follows:

- **If power averaging (RMS) mode was used in step (iv) above, the correction factor is 10 log(1/x), where x is the duty cycle.** For example, if the transmit duty cycle was 50 percent, then 3 dB must be added to the measured emission levels.
- If linear voltage averaging mode was used in step (iv) above, the correction factor is 20 log (1/x), where x is the duty cycle. For example, if the transmit duty cycle was 50 percent, then 6 dB must be added to the measured emission levels.
- If a specific emission is demonstrated to be continuous (100 percent duty cycle) rather than turning on and off with the transmit cycle, no duty cycle correction is required for that emission.

Duty Cycle Correction factor

Test Mode	Date rate	T_{on}(ms)	T_{on+off} (ms)	x = T_{on} / (T_{on+off})	DCCF = 10 log(1/x) (dB)
TM 1	6 Mbps	2.096	2.114	0.991 5	0.04
TM 2	MCS 0	5.427	5.445	0.996 7	0.01
TM 3	MCS 0	5.421	5.445	0.995 6	0.02
TM 4	MCS 0	5.427	5.445	0.996 7	0.01
TM 5	MCS 0	5.427	5.445	0.996 7	0.01

Note1: Where, T = Transmission duration / x = Duty cycle

Note2: Please refer to the appendix II for duty cycle plots.

▣ Test Results

Test Notes

1. The radiated emissions were investigated 9 kHz to 40 GHz. And no other spurious and harmonic emissions were found below listed frequencies.
2. Information of Distance Correction Factor
   For finding emissions, measurements may be performed at a distance closer than that specified in the regulations.
   In this case, the distance factor is applied to the result.
   - Calculation of distance correction factor
   At frequencies below 30 MHz = 40 log(tested distance / specified distance)
   At frequencies at or above 30 MHz = 20 log(tested distance / specified distance)
   When distance factor is “N/A”, the measurements were performed at the specified distance and distance factor is not applied.
3. Sample Calculation.
   Margin = Limit – Result / Result = Reading + TF+ DCCF + DCF / TF = AF + CL + HL + AL – AG
   Where, TF = Total Factor, AF = Antenna Factor, CL = Cable Loss, AG = Amplifier Gain, HL = High pass filter Loss, AL = Attenuator Loss, DCCF = Duty Cycle Correction Factor, DCF = Distance Correction Factor
4. The limit is converted to field strength.
   E(dBuV/m) = EIRP(dBm) + 95.2 dB = -27 dBm + 95.2 = 68.2 dBuV/m

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Unwanted Emissions data(9 kHz ~ 40 GHz) : *TM1*

Band	Tested Frequency (MHz)	Freq. (MHz)	ANT Pol	EUT Position (Axis)	Detector Mode	Reading (dBuV)	TF (dB/m)	DCCF (dB)	DCF (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
U-NII 1	5 180	5 149.22	H	X	PK	52.42	2.67	N/A	N/A	55.09	74.00	18.91
		5 149.64	H	X	AV	41.94	2.67	0.04	N/A	44.65	54.00	9.35
		6 906.72	H	X	PK	55.87	5.88	N/A	N/A	61.75	68.20	6.45
		10 359.91	V	X	PK	42.89	8.48	N/A	N/A	51.37	68.20	16.83
	5 200	6 933.35	H	X	PK	55.96	6.11	N/A	N/A	62.07	68.20	6.13
		10 399.98	V	X	PK	44.43	8.44	N/A	N/A	52.87	68.20	15.33
	5 240	6 986.60	H	X	PK	55.31	6.64	N/A	N/A	61.95	68.20	6.25
		10 479.68	V	X	PK	43.33	8.56	N/A	N/A	51.89	68.20	16.31
U-NII 2A	5 260	7 013.22	H	X	PK	55.92	6.67	N/A	N/A	62.59	68.20	5.61
		10 520.38	V	X	PK	44.33	8.62	N/A	N/A	52.95	68.20	15.25
	5 300	7 066.71	H	X	PK	55.28	6.28	N/A	N/A	61.56	68.20	6.64
		10 599.78	V	X	PK	45.78	8.53	N/A	N/A	54.31	68.20	13.89
		10 600.36	V	X	PK	44.87	8.53	N/A	N/A	53.40	74.00	20.60
		10 600.16	V	X	AV	35.14	8.53	0.04	N/A	43.71	54.00	10.29
	5 320	5 350.59	H	X	PK	51.93	2.81	N/A	N/A	54.74	74.00	19.26
		5 351.15	H	X	AV	41.79	2.81	0.04	N/A	44.64	54.00	9.36
		7 093.25	H	X	PK	55.06	6.12	N/A	N/A	61.18	68.20	7.02
		10 639.84	V	X	PK	44.66	8.46	N/A	N/A	53.12	74.00	20.88
		10 639.92	V	X	AV	34.33	8.46	0.04	N/A	42.83	54.00	11.17
U-NII 2C	5 500	5 458.03	H	X	PK	52.92	3.03	N/A	N/A	55.95	74.00	18.05
		5 460.26	H	X	PK	52.41	3.03	N/A	N/A	55.44	68.20	12.76
		5 459.01	H	X	AV	42.54	3.03	0.04	N/A	45.61	54.00	8.39
		10 999.53	V	X	PK	44.90	8.08	N/A	N/A	52.98	74.00	21.02
		10 999.97	V	X	AV	35.00	8.08	0.04	N/A	43.12	54.00	10.88
	5 600	11 199.72	V	X	PK	45.76	8.26	N/A	N/A	54.02	74.00	19.98
		11 199.75	V	X	AV	35.30	8.26	0.04	N/A	43.60	54.00	10.40
	5 720	11 439.70	V	X	PK	45.67	8.46	N/A	N/A	54.13	74.00	19.87
		11 439.86	V	X	AV	35.26	8.46	0.04	N/A	43.76	54.00	10.24
U-NII 3	5 745	5 636.08	H	X	PK	51.60	3.23	N/A	N/A	54.83	68.20	13.37
		5 694.55	H	X	PK	51.91	3.24	N/A	N/A	55.15	101.17	46.02
		11 489.92	V	X	PK	45.83	8.56	N/A	N/A	54.39	74.00	19.61
		11 489.76	V	X	AV	35.20	8.56	0.04	N/A	43.80	54.00	10.20
	5 785	11 569.31	V	X	PK	44.22	8.60	N/A	N/A	52.82	74.00	21.18
		11 569.93	V	X	AV	33.82	8.60	0.04	N/A	42.46	54.00	11.54
	5 825	5 902.19	H	X	PK	51.54	3.54	N/A	N/A	55.08	85.08	30.00
		5 928.76	H	X	PK	51.28	3.77	N/A	N/A	55.05	68.20	13.15
		11 650.72	V	X	PK	44.73	8.85	N/A	N/A	53.58	74.00	20.42
		11 650.25	V	X	AV	34.68	8.84	0.04	N/A	43.56	54.00	10.44

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Unwanted Emissions data(9 kHz ~ 40 GHz) : *TM2*

Band	Tested Frequency (MHz)	Freq. (MHz)	ANT Pol	EUT Position (Axis)	Detector Mode	Reading (dBuV)	TF (dB/m)	DCCF (dB)	DCF (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
U-NII 1	5 180	5 149.08	H	X	PK	52.21	2.67	N/A	N/A	54.88	74.00	19.12
		5 149.87	H	X	AV	41.73	2.67	0.01	N/A	44.41	54.00	9.59
		6 906.40	H	X	PK	54.92	5.88	N/A	N/A	60.80	68.20	7.40
		10 359.72	V	X	PK	44.11	8.48	N/A	N/A	52.59	68.20	15.61
	5 200	6 933.45	H	X	PK	55.61	6.11	N/A	N/A	61.72	68.20	6.48
		10 400.32	V	X	PK	45.03	8.44	N/A	N/A	53.47	68.20	14.73
	5 240	6 986.47	H	X	PK	55.55	6.64	N/A	N/A	62.19	68.20	6.01
		10 480.22	V	X	PK	43.13	8.56	N/A	N/A	51.69	68.20	16.51
U-NII 2A	5 260	7 013.15	H	X	PK	55.11	6.67	N/A	N/A	61.78	68.20	6.42
		10 519.83	V	X	PK	45.34	8.62	N/A	N/A	53.96	68.20	14.24
	5 300	7 066.67	H	X	PK	55.57	6.28	N/A	N/A	61.85	68.20	6.35
		10 599.68	V	X	PK	44.13	8.53	N/A	N/A	52.66	68.20	15.54
		10 600.13	V	X	PK	44.26	8.53	N/A	N/A	52.79	74.00	21.21
		10 600.09	V	X	AV	34.55	8.53	0.01	N/A	43.09	54.00	10.91
	5 320	5 353.36	H	X	PK	53.80	2.82	N/A	N/A	56.62	74.00	17.38
		5 354.20	H	X	AV	42.21	2.82	0.01	N/A	45.04	54.00	8.96
		7 093.20	H	X	PK	55.44	6.12	N/A	N/A	61.56	68.20	6.64
		10 640.52	V	X	PK	44.26	8.46	N/A	N/A	52.72	74.00	21.28
		10 640.02	V	X	AV	34.19	8.46	0.01	N/A	42.66	54.00	11.34
U-NII 2C	5 500	5 458.41	H	X	PK	52.00	3.03	N/A	N/A	55.03	74.00	18.97
		5 463.90	H	X	PK	51.89	3.04	N/A	N/A	54.93	68.20	13.27
		5 458.04	H	X	AV	41.96	3.03	0.01	N/A	45.00	54.00	9.00
		10 999.45	V	X	PK	45.11	8.08	N/A	N/A	53.19	74.00	20.81
		10 999.98	V	X	AV	35.12	8.08	0.01	N/A	43.21	54.00	10.79
	5 600	11 199.60	V	X	PK	45.25	8.26	N/A	N/A	53.51	74.00	20.49
		11 199.94	V	X	AV	35.38	8.26	0.01	N/A	43.65	54.00	10.35
	5 720	11 439.38	V	X	PK	46.22	8.46	N/A	N/A	54.68	74.00	19.32
		11 439.82	V	X	AV	35.32	8.46	0.01	N/A	43.79	54.00	10.21
U-NII 3	5 745	5 647.48	H	X	PK	51.23	3.23	N/A	N/A	54.46	68.20	13.74
		5 668.70	H	X	PK	52.13	3.24	N/A	N/A	55.37	82.04	26.67
		11 490.43	V	X	PK	45.43	8.56	N/A	N/A	53.99	74.00	20.01
		11 490.24	V	X	AV	35.29	8.56	0.01	N/A	43.86	54.00	10.14
	5 785	11 570.23	V	X	PK	44.83	8.60	N/A	N/A	53.43	74.00	20.57
		11 570.14	V	X	AV	34.25	8.60	0.01	N/A	42.86	54.00	11.14
	5 825	5 887.14	H	X	PK	51.13	3.41	N/A	N/A	54.54	96.22	41.68
		5 977.57	H	X	PK	50.85	4.17	N/A	N/A	55.02	68.20	13.18
		11 650.73	V	X	PK	45.18	8.85	N/A	N/A	54.03	74.00	19.97
		11 650.02	V	X	AV	35.18	8.84	0.01	N/A	44.03	54.00	9.97

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Unwanted Emissions data(9 kHz ~ 40 GHz) : *TM3*

Band	Tested Frequency (MHz)	Freq. (MHz)	ANT Pol	EUT Position (Axis)	Detector Mode	Reading (dBuV)	TF (dB/m)	DCCF (dB)	DCF (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
U-NII 1	5 190	5 149.52	H	X	PK	58.93	2.67	N/A	N/A	61.60	74.00	12.40
		5 149.97	H	X	AV	48.11	2.67	0.02	N/A	50.80	54.00	3.20
		6 919.80	H	X	PK	54.84	5.99	N/A	N/A	60.83	68.20	7.37
		10 380.71	V	X	PK	43.85	8.46	N/A	N/A	52.31	68.20	15.89
	5 230	6 973.01	H	X	PK	54.47	6.49	N/A	N/A	60.96	68.20	7.24
		10 460.55	V	X	PK	44.13	8.51	N/A	N/A	52.64	68.20	15.56
U-NII 2A	5 270	7 026.62	H	X	PK	54.33	6.57	N/A	N/A	60.90	68.20	7.30
		10 539.93	V	X	PK	45.06	8.62	N/A	N/A	53.68	68.20	14.52
	5 310	5 350.06	H	X	PK	60.12	2.81	N/A	N/A	62.93	74.00	11.07
		5 350.91	H	X	AV	48.67	2.81	0.02	N/A	51.50	54.00	2.50
		7 079.84	H	X	PK	54.66	6.20	N/A	N/A	60.86	68.20	7.34
		10 619.57	V	X	PK	43.21	8.50	N/A	N/A	51.71	74.00	22.29
		10 619.83	V	X	AV	33.25	8.49	0.02	N/A	41.76	54.00	12.24
U-NII 2C	5 510	5 459.05	H	X	PK	53.95	3.03	N/A	N/A	56.98	74.00	17.02
		5 467.94	H	X	PK	61.95	3.05	N/A	N/A	65.00	68.20	3.20
		5 459.71	H	X	AV	43.53	3.03	0.02	N/A	46.58	54.00	7.42
		11 020.17	V	X	PK	45.01	8.09	N/A	N/A	53.10	74.00	20.90
		11 020.11	V	X	AV	35.35	8.09	0.02	N/A	43.46	54.00	10.54
	5 590	11 179.47	V	X	PK	45.60	8.25	N/A	N/A	53.85	74.00	20.15
		11 179.96	V	X	AV	35.54	8.25	0.02	N/A	43.81	54.00	10.19
	5 710	11 419.33	V	X	PK	45.18	8.45	N/A	N/A	53.63	74.00	20.37
		11 419.75	V	X	AV	34.85	8.45	0.02	N/A	43.32	54.00	10.68
U-NII 3	5 755	5 625.65	H	X	PK	51.07	3.23	N/A	N/A	54.30	68.20	13.90
		5 686.45	H	X	PK	52.57	3.24	N/A	N/A	55.81	68.20	12.39
		11 509.03	V	X	PK	45.72	8.58	N/A	N/A	54.30	74.00	19.70
		11 509.68	V	X	AV	35.21	8.58	0.02	N/A	43.81	54.00	10.19
	5 795	5 919.64	H	X	PK	52.30	3.69	N/A	N/A	55.99	72.17	16.18
		5 931.20	H	X	PK	51.53	3.79	N/A	N/A	55.32	68.20	12.88
		11 590.08	V	X	PK	44.70	8.64	N/A	N/A	53.34	74.00	20.66
		11 590.05	V	X	AV	34.47	8.64	0.02	N/A	43.13	54.00	10.87

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Unwanted Emissions data(9 kHz ~ 40 GHz) : *TM4*

Band	Tested Frequency (MHz)	Freq. (MHz)	ANT Pol	EUT Position (Axis)	Detector Mode	Reading (dBuV)	TF (dB/m)	DCCF (dB)	DCF (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
U-NII 1	5 210	5 149.62	H	X	PK	58.13	2.67	N/A	N/A	60.80	74.00	13.20
		5 148.73	H	X	AV	48.24	2.67	0.01	N/A	50.92	54.00	3.08
		6 946.51	H	X	PK	54.90	6.22	N/A	N/A	61.12	68.20	7.08
		10 419.75	V	X	PK	44.43	8.45	N/A	N/A	52.88	68.20	15.32
U-NII 2A	5 290	5 350.15	H	X	PK	59.46	2.81	N/A	N/A	62.27	74.00	11.73
		5 350.10	H	X	AV	48.58	2.81	0.01	N/A	51.40	54.00	2.60
		7 053.22	H	X	PK	55.02	6.36	N/A	N/A	61.38	68.20	6.82
		10 579.87	V	X	PK	43.76	8.57	N/A	N/A	52.33	68.20	15.87
U-NII 2C	5 530	5 459.50	H	X	PK	59.08	3.03	N/A	N/A	62.11	74.00	11.89
		5 465.31	H	X	PK	60.81	3.05	N/A	N/A	63.86	68.20	4.34
		5 459.92	H	X	AV	48.48	3.03	0.01	N/A	51.52	54.00	2.48
		11 059.93	V	X	PK	45.47	8.10	N/A	N/A	53.57	74.00	20.43
		11 059.97	V	X	AV	35.24	8.10	0.01	N/A	43.35	54.00	10.65
	5 610	11 220.33	V	X	PK	45.29	8.31	N/A	N/A	53.60	74.00	20.40
		11 220.13	V	X	AV	35.16	8.31	0.01	N/A	43.48	54.00	10.52
	5 690	11 380.82	V	X	PK	45.09	8.43	N/A	N/A	53.52	74.00	20.48
		11 380.03	V	X	AV	34.63	8.43	0.01	N/A	43.07	54.00	10.93
U-NII 3	5 775	5 635.05	H	X	PK	51.94	3.23	N/A	N/A	55.17	68.20	13.03
		5 694.45	H	X	PK	53.64	3.24	N/A	N/A	56.88	101.09	44.21
		5 877.80	H	X	PK	52.12	3.34	N/A	N/A	55.46	103.13	47.67
		5 937.52	H	X	PK	51.15	3.84	N/A	N/A	54.99	68.20	13.21
		11 550.41	V	X	PK	44.96	8.57	N/A	N/A	53.53	74.00	20.47
		11 550.10	V	X	AV	34.22	8.57	0.01	N/A	42.80	54.00	11.20

Unwanted Emissions data(9 kHz ~ 40 GHz) : *TM5*

Band	Tested Frequency (MHz)	Freq. (MHz)	ANT Pol	EUT Position (Axis)	Detector Mode	Reading (dBuV)	TF (dB/m)	DCCF (dB)	DCF (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
U-NII 1,2A	5 250	5 149.31	H	X	PK	58.47	2.67	N/A	N/A	61.14	74.00	12.86
		5 149.65	H	X	AV	48.46	2.67	0.01	N/A	51.14	54.00	2.86
		5 350.50	H	X	PK	59.22	2.81	N/A	N/A	62.03	74.00	11.97
		5 350.14	H	X	AV	46.97	2.81	0.01	N/A	49.79	54.00	4.21
		6 999.96	H	X	PK	54.72	6.78	N/A	N/A	61.50	68.20	6.70
		10 500.37	V	X	PK	44.26	8.62	N/A	N/A	52.88	68.20	15.32
U-NII 2C	5 570	5 458.09	H	X	PK	59.37	3.03	N/A	N/A	62.40	74.00	11.60
		5 467.96	H	X	PK	58.97	3.05	N/A	N/A	62.02	68.20	6.18
		5 457.71	H	X	AV	48.58	3.02	0.01	N/A	51.61	54.00	2.39
		11 139.78	V	X	PK	44.95	8.22	N/A	N/A	53.17	74.00	20.83
		11 139.75	V	X	AV	35.33	8.22	0.01	N/A	43.56	54.00	10.44

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5.6 AC Power-Line Conducted Emissions

▣ Test Requirements, §15.207

An intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 uH/50 ohm line impedance stabilization network (LISN).

Compliance with the provision of this paragraph shall on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower applies at the boundary between the frequency ranges.

Frequency Range (MHz)	Conducted Limit (dBuV)	
	Quasi-Peak	Average
0.15 ~ 0.5	66 to 56 *	56 to 46 *
0.5 ~ 5.0	56	46
5 ~ 30	60	50

* Decreases with the logarithm of the frequency

Compliance with this provision shall be based on the measurement of the radio frequency voltage between each power line (LINE and NEUTRAL) and ground at the power terminals.

▣ Test Configuration

See test photographs for the actual connections between EUT and support equipment.

▣ Test Procedure

Conducted emissions from the EUT were measured according to the ANSI C63.10-2013.

1. The test procedure is performed in a 6.5 m × 3.5 m × 3.5 m (L × W × H) shielded room. The EUT along with its peripherals were placed on a 1.0 m (W) × 1.5 m (L) and 0.8 m in height wooden table and the EUT was adjusted to maintain a 0.4 meter space from a vertical reference plane.
2. The EUT was connected to power mains through a line impedance stabilization network (LISN) which provides 50 ohm coupling impedance for measuring instrument and the chassis ground was bounded to the horizontal ground plane of shielded room.
3. All peripherals were connected to the second LISN and the chassis ground also bounded to the horizontal ground plane of shielded room.
4. The excess power cable between the EUT and the LISN was bundled. The power cables of peripherals were unbundled. All connecting cables of EUT and peripherals were moved to find the maximum emission.

▣ Test Results: Comply

Refer to the next page. The worst case data was reported.

AC Power-Line Conducted Emissions (Graph)

Test Mode: U-NII 1 & TM 2 & 5 180 MHz

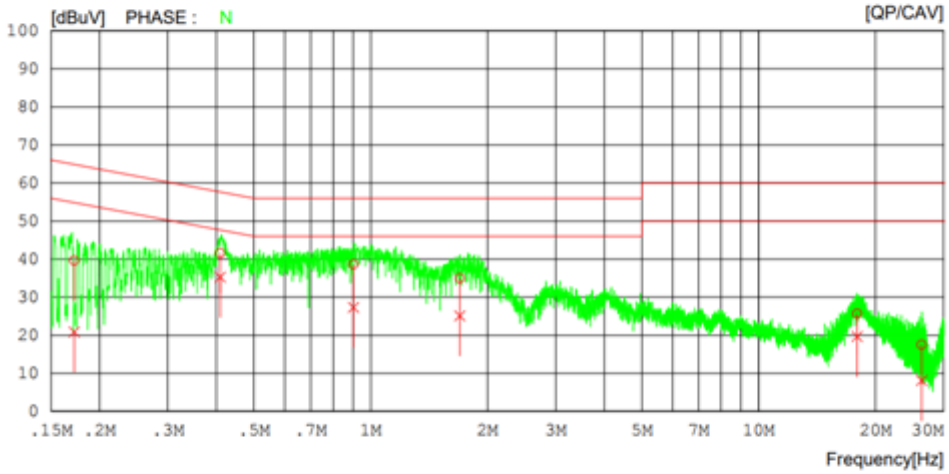
Results of Conducted Emission

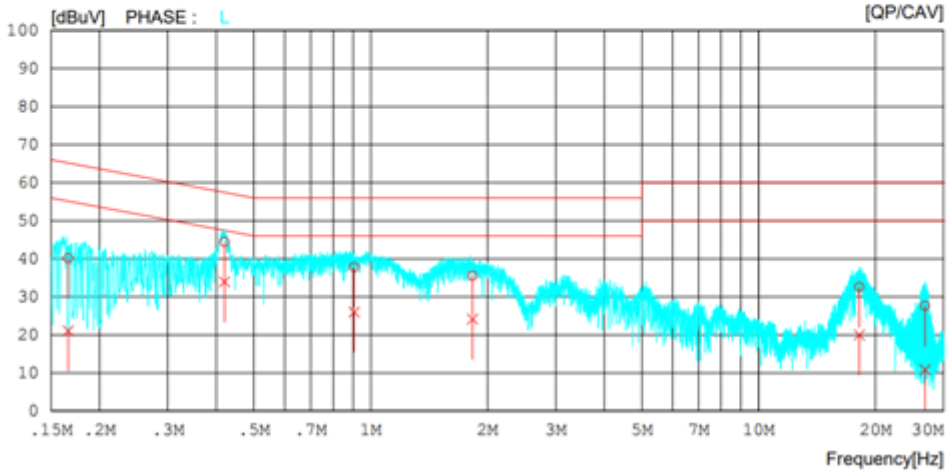
Date 2024-04-29

Order No.		Referrence No.	
Model No.	PM95	Power Supply	120 V, 60 Hz
Serial No.		Temp/Humi.	23 'C / 41 %
Test Condition	UNII_1	Operator	S.M.GIL
Memo	ac20_5180		

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

Lisn Factor
1. NSLK 8128 RC-387_N_23.10.26
2. NSLK 8128 RC-387_L1_23.10.26
Cable Loss
1. C1_LISN TO RECIVER_2023-12-11
Pulse Lmitter
1. PULSE LIMITER_ESH3-Z2_101333_2023.08.21





AC Power-Line Conducted Emissions (Data List)

Test Mode: U-NII 1 & TM 2 & 5 180 MHz

Results of Conducted Emission

Date 2024-04-29

Order No.		Referrence No.	
Model No.	PM95	Power Supply	120 V, 60 Hz
Serial No.		Temp/Humi.	23 'C / 41 %
Test Condition	UNII_1	Operator	S.M.GIL
Memo	ac20_5180		

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

Lisn Factor
1. NSLK 8128 RC-387_N_23.10.26
2. NSLK 8128 RC-387_L1_23.10.26
Cable Loss
1. C1_LISN TO RECIVER_2023-12-11
Pulse Lmitter
1. PULSE LIMITER_ESH3-Z2_101333_2023.08.21

NO	FREQ	READING		C.FACTOR	RESULT		LIMIT		MARGIN		PHASE
		QP	CAV		QP	CAV	QP	CAV	QP	CAV	
	[MHz]	[dBuV]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dBuV]	[dBuV]	[dBuV]	[dBuV]	
1	0.17209	29.62	10.86	9.99	39.61	20.85	64.86	54.86	25.25	34.01	N
2	0.40926	31.56	25.27	10.00	41.56	35.27	57.66	47.66	16.10	12.39	N
3	0.90201	28.61	17.30	10.02	38.63	27.32	56.00	46.00	17.37	18.68	N
4	1.69560	24.89	15.06	10.05	34.94	25.11	56.00	46.00	21.06	20.89	N
5	17.93960	15.08	9.13	10.54	25.62	19.67	60.00	50.00	34.38	30.33	N
6	26.29380	6.93	-2.51	10.60	17.53	8.09	60.00	50.00	42.47	41.91	N
7	0.16592	30.15	11.06	9.99	40.14	21.05	65.16	55.16	25.02	34.11	L
8	0.41981	34.38	23.94	10.00	44.38	33.94	57.45	47.45	13.07	13.51	L
9	0.90636	27.63	15.89	10.12	37.75	26.01	56.00	46.00	18.25	19.99	L
10	1.82880	25.37	13.98	10.15	35.52	24.13	56.00	46.00	20.48	21.87	L
11	18.17040	21.96	9.40	10.58	32.54	19.98	60.00	50.00	27.46	30.02	L
12	26.82880	16.94	0.14	10.67	27.61	10.81	60.00	50.00	32.39	39.19	L

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AC Power-Line Conducted Emissions (Graph)

Test Mode: U-NII 2A & TM 2 & 5 260 MHz

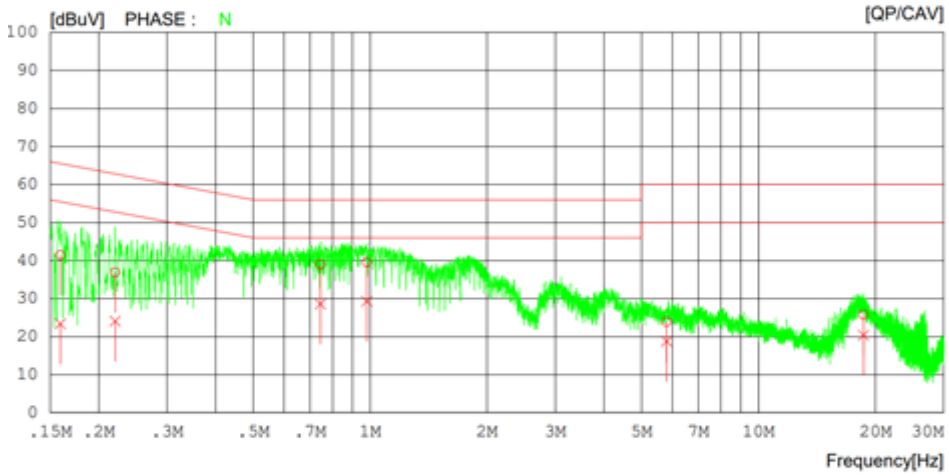
Results of Conducted Emission

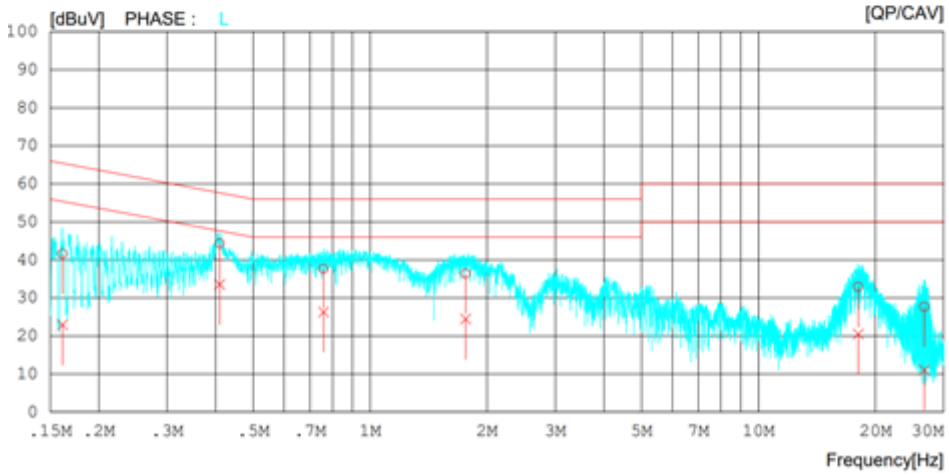
Date 2024-04-29

Order No.		Referrence No.	
Model No.	PM95	Power Supply	120 V, 60 Hz
Serial No.		Temp/Humi.	23 'C / 41 %
Test Condition	UNII_2A	Operator	S.M.GIL
Memo	ac20_5260		

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

Lisn Factor
1. NSLK 8128 RC-387_N_23.10.26
2. NSLK 8128 RC-387_L1_23.10.26
Cable Loss
1. C1_LISN TO RECIVER_2023-12-11
Pulse Lmitter
1. PULSE LIMITER_ESH3-Z2_101333_2023.08.21





AC Power-Line Conducted Emissions (Data List)

Test Mode: U-NII 2A & TM 2 & 5 260 MHz

Results of Conducted Emission

Date 2024-04-29

Order No.		Referrence No.	
Model No.	PM95	Power Supply	120 V, 60 Hz
Serial No.		Temp/Humi.	23 'C / 41 %
Test Condition	UNII_2A	Operator	S.M.GIL
Memo	ac20_5260		

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

Lisn Factor
1. NSLK 8128 RC-387_N_23.10.26
2. NSLK 8128 RC-387_L1_23.10.26
Cable Loss
1. C1_LISN TO RECIVER_2023-12-11
Pulse Lmitter
1. PULSE LIMITER_ESH3-Z2_101333_2023.08.21

NO	FREQ	READING		C.FACTOR	RESULT		LIMIT		MARGIN		PHASE
		QP	CAV		QP	CAV	QP	CAV	QP	CAV	
	[MHz]	[dBuV]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dBuV]	[dBuV]	[dBuV]	[dBuV]	
1	0.15931	31.45	13.38	9.99	41.44	23.37	65.50	55.50	24.06	32.13	N
2	0.22046	26.87	14.09	9.99	36.86	24.08	62.80	52.80	25.94	28.72	N
3	0.74385	28.99	18.58	10.01	39.00	28.59	56.00	46.00	17.00	17.41	N
4	0.98064	29.50	19.28	10.02	39.52	29.30	56.00	46.00	16.48	16.70	N
5	5.80160	13.66	8.54	10.23	23.89	18.77	60.00	50.00	36.11	31.23	N
6	18.64000	15.22	9.83	10.55	25.77	20.38	60.00	50.00	34.23	29.62	N
7	0.16135	31.63	12.95	9.99	41.62	22.94	65.39	55.39	23.77	32.45	L
8	0.40979	34.37	23.54	10.00	44.37	33.54	57.65	47.65	13.28	14.11	L
9	0.75868	27.58	16.21	10.11	37.69	26.32	56.00	46.00	18.31	19.68	L
10	1.76220	26.28	14.29	10.15	36.43	24.44	56.00	46.00	19.57	21.56	L
11	18.06800	22.33	9.91	10.58	32.91	20.49	60.00	50.00	27.09	29.51	L
12	26.73600	16.99	0.36	10.67	27.66	11.03	60.00	50.00	32.34	38.97	L

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AC Power-Line Conducted Emissions (Graph)

Test Mode: U-NII 2C & TM 2 & 5 500 MHz

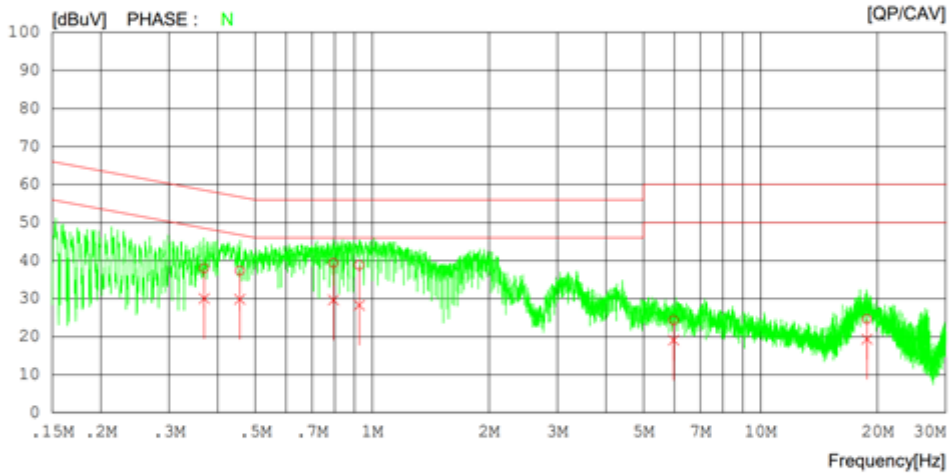
Results of Conducted Emission

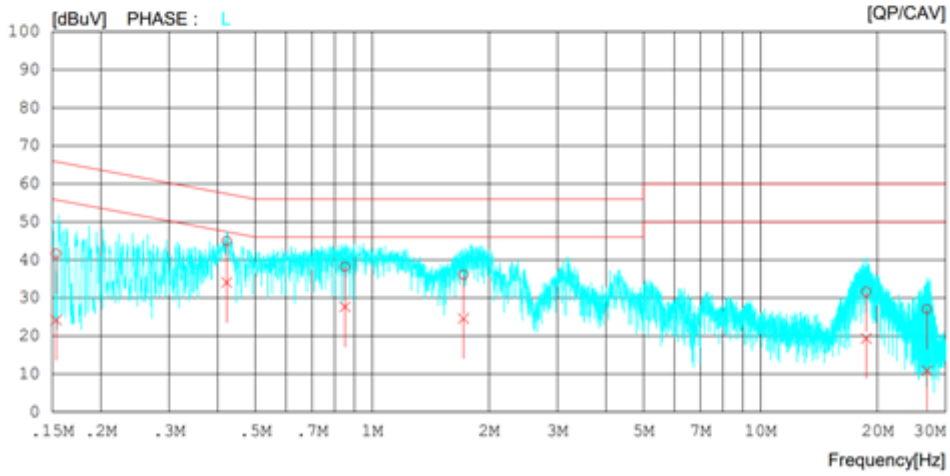
Date 2024-04-29

Order No.		Referrence No.	
Model No.	PM95	Power Supply	120 V, 60 Hz
Serial No.		Temp/Humi.	23 'C / 41 %
Test Condition	UNII_2C	Operator	S.M.GIL
Memo	ac20_5500		

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

Lisn Factor
1. NSLK 8128 RC-387_N_23.10.26
2. NSLK 8128 RC-387_L1_23.10.26
Cable Loss
1. C1_LISN TO RECIVER_2023-12-11
Pulse Lmitter
1. PULSE LIMITER_ESH3-Z2_101333_2023.08.21





AC Power-Line Conducted Emissions (Data List)

Test Mode: U-NII 2C & TM 2 & 5 500 MHz

Results of Conducted Emission

Date 2024-04-29

Order No.		Referrence No.	
Model No.	PM95	Power Supply	120 V, 60 Hz
Serial No.		Temp/Humi.	23 'C / 41 %
Test Condition	UNII_2C	Operator	S.M.GIL
Memo	ac20_5500		

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

Lisn Factor
1. NSLK 8128 RC-387_N_23.10.26
2. NSLK 8128 RC-387_L1_23.10.26
Cable Loss
1. C1_LISN TO RECIVER_2023-12-11
Pulse Lmitter
1. PULSE LIMITER_ESH3-Z2_101333_2023.08.21

NO	FREQ [MHz]	READING QP [dBuV]	READING CAV [dBuV]	C.FACTOR [dB]	RESULT QP [dBuV]	RESULT CAV [dBuV]	LIMIT QP [dBuV]	LIMIT CAV [dBuV]	MARGIN QP [dBuV]	MARGIN CAV [dBuV]	PHASE
1	0.36951	28.01	20.01	10.00	38.01	30.01	58.51	48.51	20.50	18.50	N
2	0.45619	27.36	19.82	10.00	37.36	29.82	56.76	46.76	19.40	16.94	N
3	0.79503	29.33	19.61	10.01	39.34	29.62	56.00	46.00	16.66	16.38	N
4	0.92620	28.80	18.25	10.02	38.82	28.27	56.00	46.00	17.18	17.73	N
5	5.97700	14.07	8.84	10.23	24.30	19.07	60.00	50.00	35.70	30.93	N
6	18.80040	13.99	8.80	10.55	24.54	19.35	60.00	50.00	35.46	30.65	N
7	0.15350	31.63	14.19	9.99	41.62	24.18	65.81	55.81	24.19	31.63	L
8	0.42206	35.00	24.07	10.00	45.00	34.07	57.41	47.41	12.41	13.34	L
9	0.85097	28.11	17.52	10.12	38.23	27.64	56.00	46.00	17.77	18.36	L
10	1.71860	25.96	14.44	10.15	36.11	24.59	56.00	46.00	19.89	21.41	L
11	18.73040	21.05	8.78	10.58	31.63	19.36	60.00	50.00	28.37	30.64	L
12	26.84000	16.40	0.25	10.67	27.07	10.92	60.00	50.00	32.93	39.08	L

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AC Power-Line Conducted Emissions (Graph)

Test Mode: U-NII 3 & TM 2 & 5 745 MHz

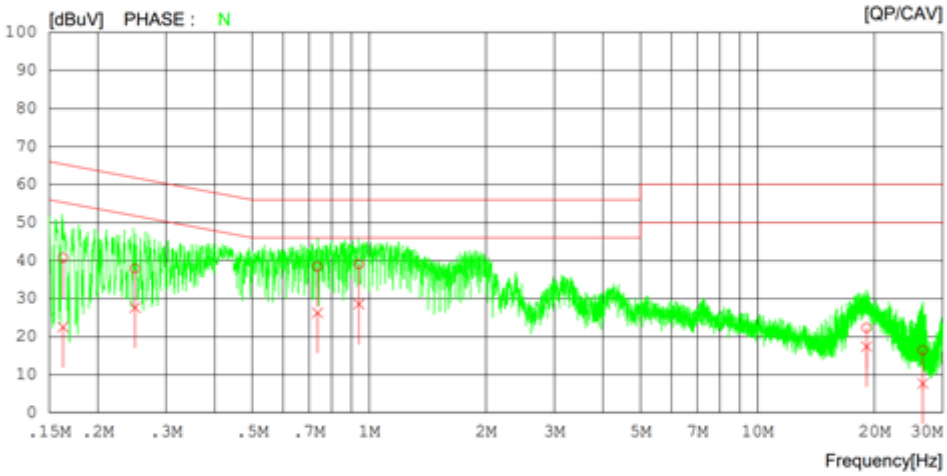
Results of Conducted Emission

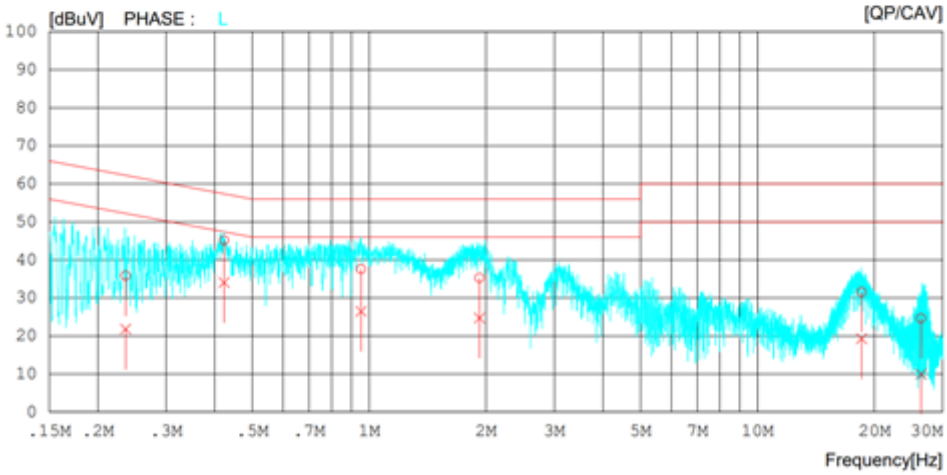
Date 2024-04-29

Order No.		Referrence No.	
Model No.	PM95	Power Supply	120 V, 60 Hz
Serial No.		Temp/Humi.	23 'C / 41 %
Test Condition	UNII_3	Operator	S.M.GIL
Memo	ac20_5745		

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

Lisn Factor
1. NSLK 8128 RC-387_N_23.10.26
2. NSLK 8128 RC-387_L1_23.10.26
Cable Loss
1. C1_LISN TO RECIVER_2023-12-11
Pulse Lmitter
1. PULSE LIMITER_ESH3-Z2_101333_2023.08.21





AC Power-Line Conducted Emissions (Data List)

Test Mode: U-NII 3 & TM 2 & 5 745 MHz

Results of Conducted Emission

Date 2024-04-29

Order No.		Referrence No.	
Model No.	PM95	Power Supply	120 V, 60 Hz
Serial No.		Temp/Humi.	23 'C / 41 %
Test Condition	UNII_3	Operator	S.M.GIL

Memo ac20_5745

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

Lisn Factor
1. NSLK 8128 RC-387_N_23.10.26
2. NSLK 8128 RC-387_L1_23.10.26
Cable Loss
1. C1_LISN TO RECIVER_2023-12-11
Pulse Lmitter
1. PULSE LIMITER_ESH3-Z2_101333_2023.08.21

NO	FREQ	READING		C.FACTOR	RESULT		LIMIT		MARGIN		PHASE
		QP	CAV		QP	CAV	QP	CAV	QP	CAV	
	[MHz]	[dBuV]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dBuV]	[dBuV]	[dBuV]	[dBuV]	
1	0.16263	30.75	12.51	9.99	40.74	22.50	65.33	55.33	24.59	32.83	N
2	0.24939	27.89	17.60	9.99	37.88	27.59	61.78	51.78	23.90	24.19	N
3	0.73607	28.39	16.26	10.01	38.40	26.27	56.00	46.00	17.60	19.73	N
4	0.94133	29.00	18.54	10.02	39.02	28.56	56.00	46.00	16.98	17.44	N
5	19.11040	11.77	6.85	10.55	22.32	17.40	60.00	50.00	37.68	32.60	N
6	26.65520	5.85	-2.93	10.60	16.45	7.67	60.00	50.00	43.55	42.33	N
7	0.23576	25.83	11.83	9.99	35.82	21.82	62.24	52.24	26.42	30.42	L
8	0.42280	35.18	24.05	10.00	45.18	34.05	57.39	47.39	12.21	13.34	L
9	0.95271	27.52	16.38	10.12	37.64	26.50	56.00	46.00	18.36	19.50	L
10	1.92400	25.10	14.57	10.16	35.26	24.73	56.00	46.00	20.74	21.27	L
11	18.54600	20.98	8.71	10.58	31.56	19.29	60.00	50.00	28.44	30.71	L
12	26.39660	14.03	-0.69	10.66	24.69	9.97	60.00	50.00	35.31	40.03	L

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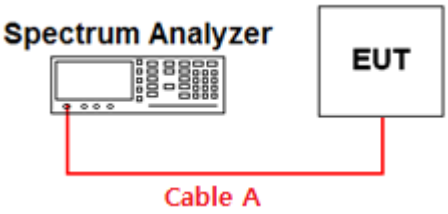
APPENDIX I

Conducted Test set up Diagram

▪ Conducted Measurement



APPENDIX II

Duty Cycle Information

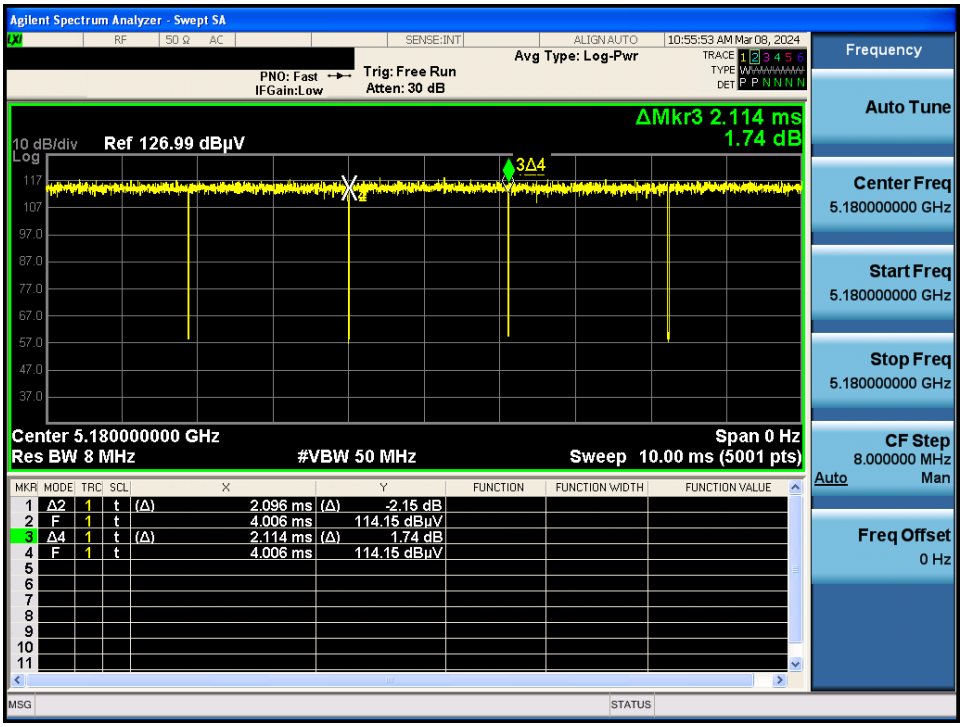
▣ Test Procedure

Duty Cycle [X = On Time / (On + Off time)] is measured using Measurement Procedure **of KDB789033 D02v02r01**

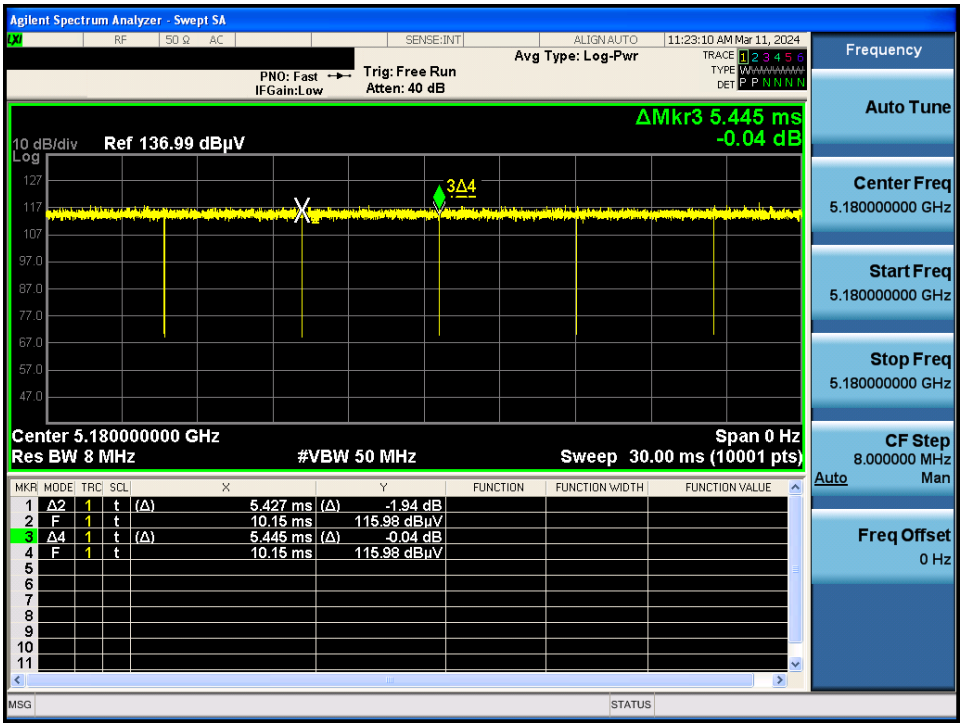
1. Set the center frequency of the spectrum analyzer to the center frequency of the transmission.
2. Set RBW ≥ EBW if possible; otherwise, set RBW to the largest available value.
3. Set VBW ≥ RBW. Set detector = peak.
4. Note : The zero-span measurement method shall not be used unless both **RBW and VBW are > 50 / *T***, where *T* is defined in section II.B.1.a), 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.)

T : 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.
(***T* = On time** of the above table since the EUT operates with above fixed Duty Cycle and it is the minimum On time)

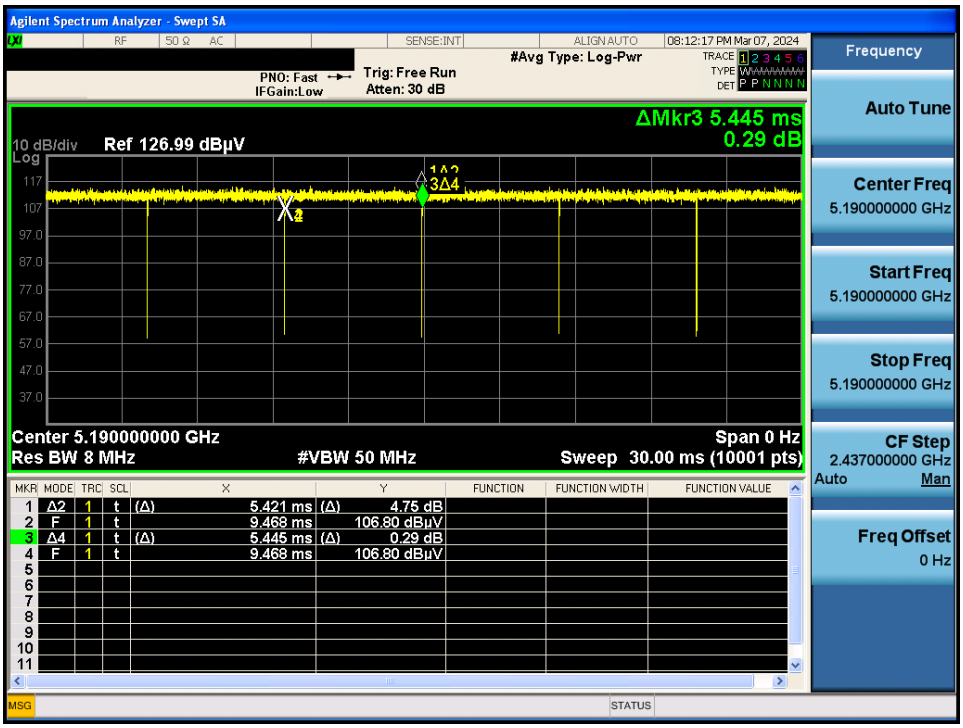
Duty Cycle Test Mode: TM1 & Ch.36



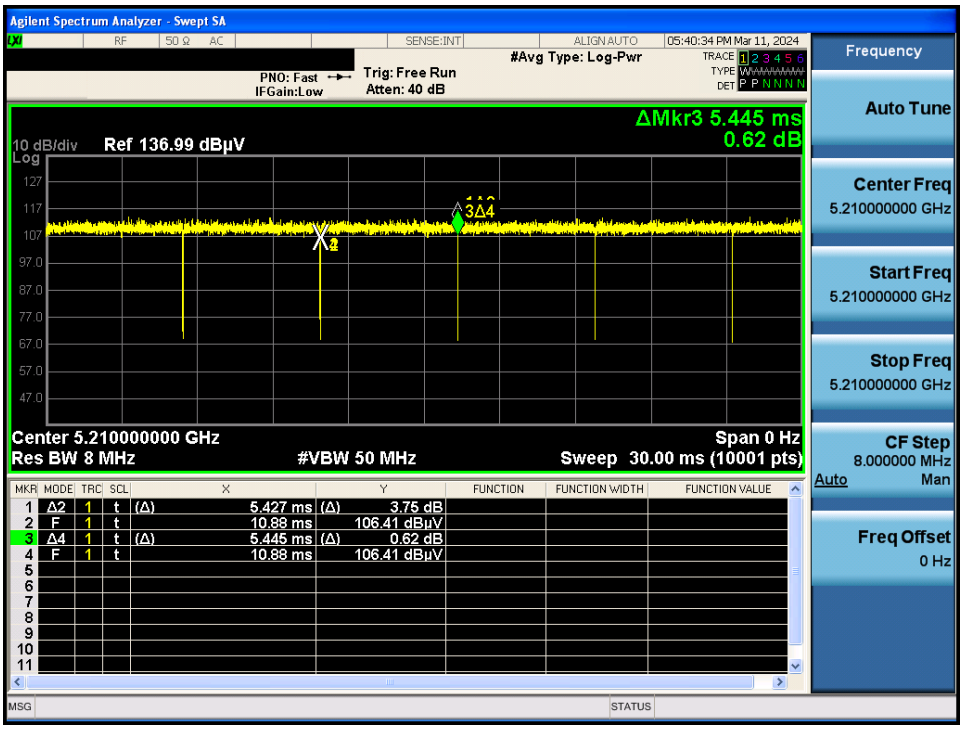
Duty Cycle Test Mode: TM 2 & Ch.36



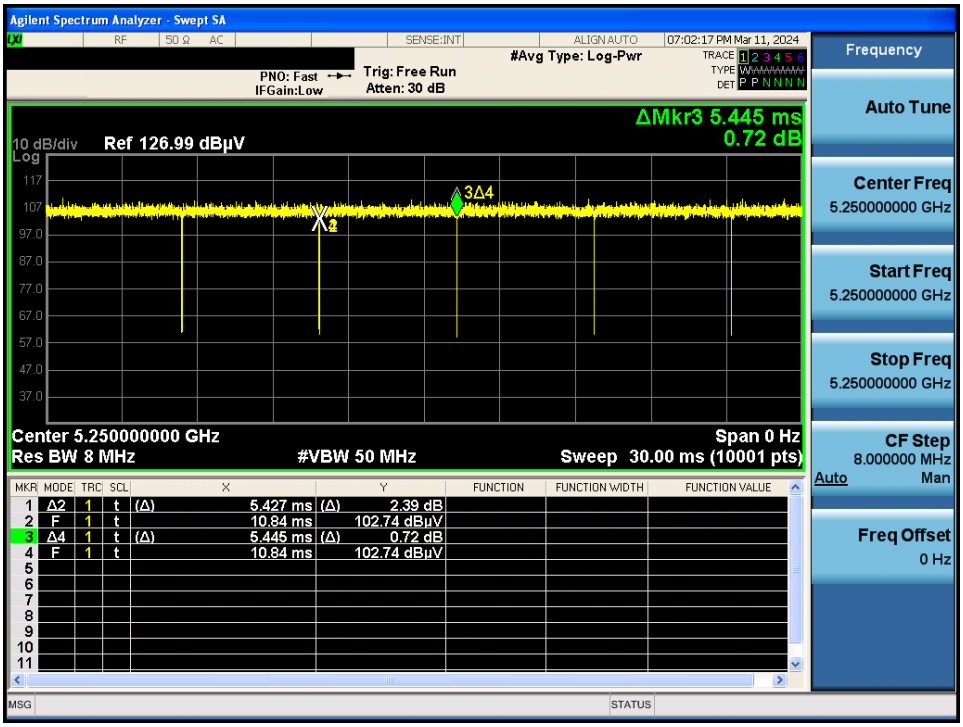
Duty Cycle Test Mode: TM 3 & Ch.38



Duty Cycle Test Mode: TM 4 & Ch.42



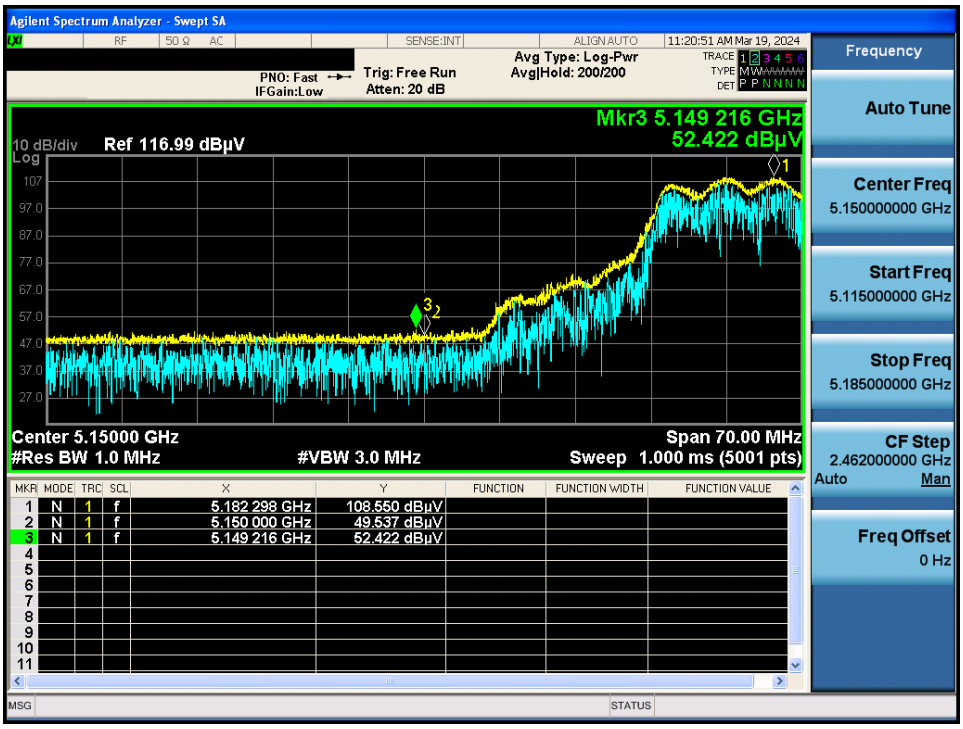
Duty Cycle Test Mode: TM 5 & Ch.50



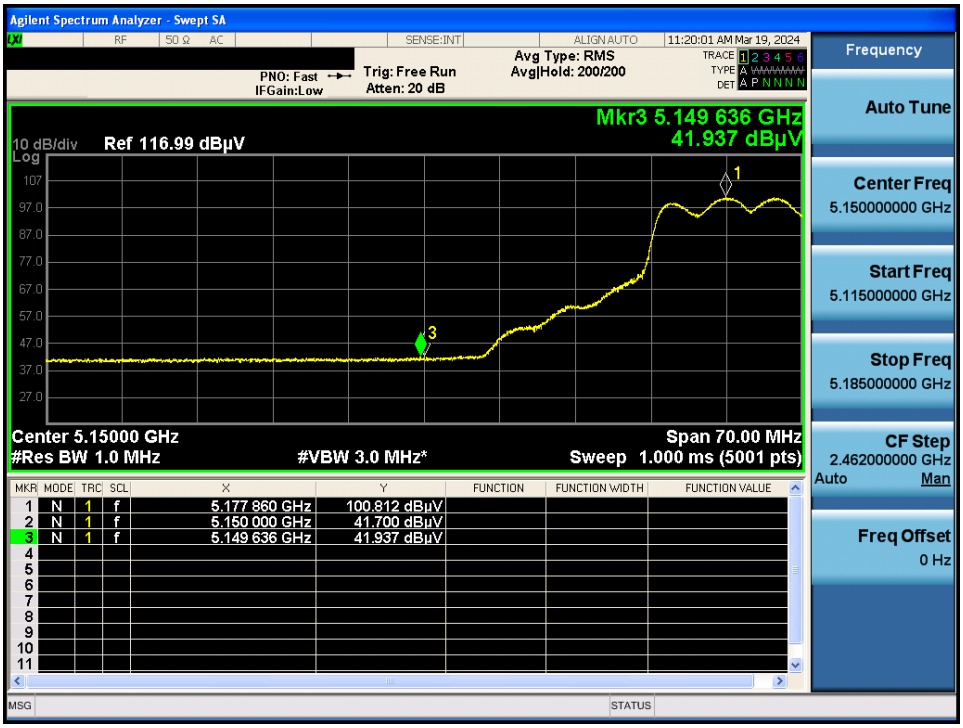
APPENDIX III

Unwanted Emissions (Radiated) Test Plot:

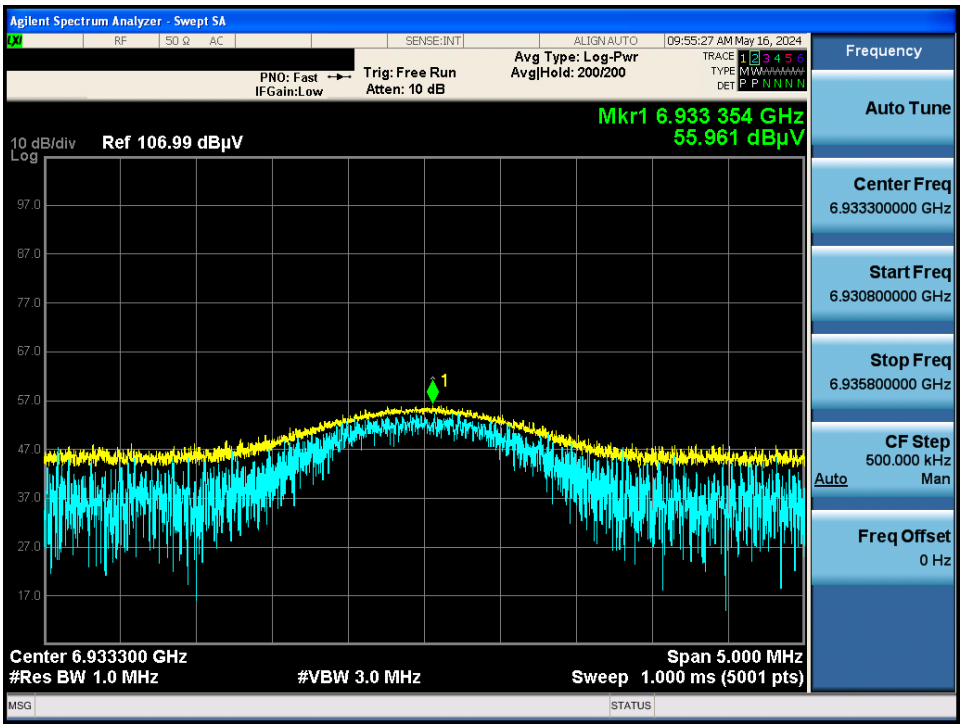
TM 1 & U-NII 1 & 5 180 & X axis & Hor **Detector Mode : PK**



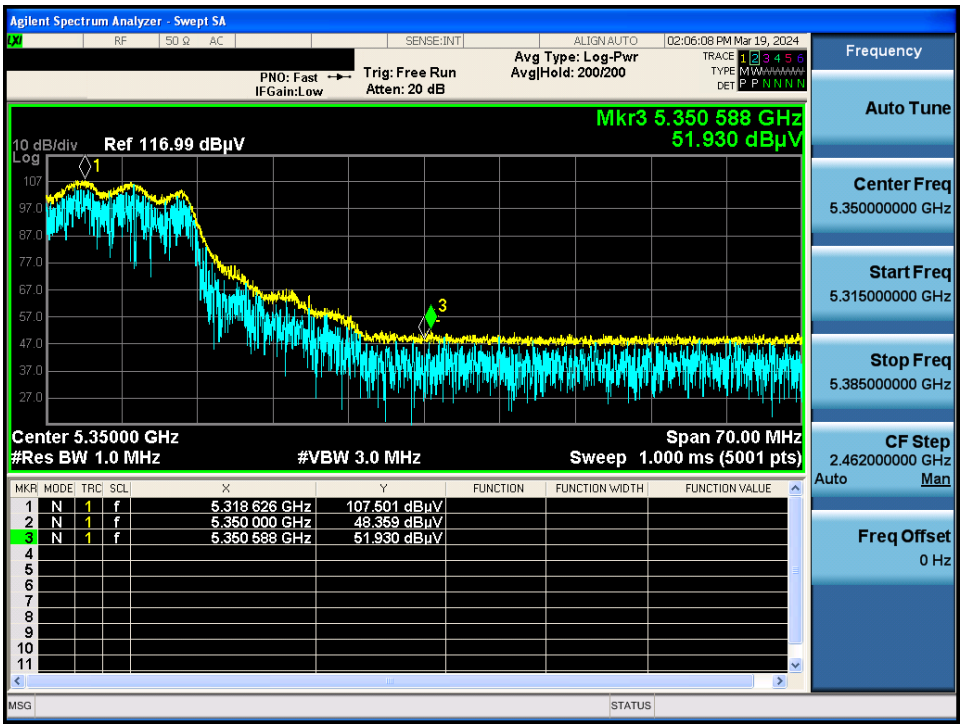
TM 1 & U-NII 1 & 5 180 & X axis & Hor **Detector Mode : AV**



TM 1 & U-NII 1 & 5 200 & X axis & Hor **Detector Mode : PK**

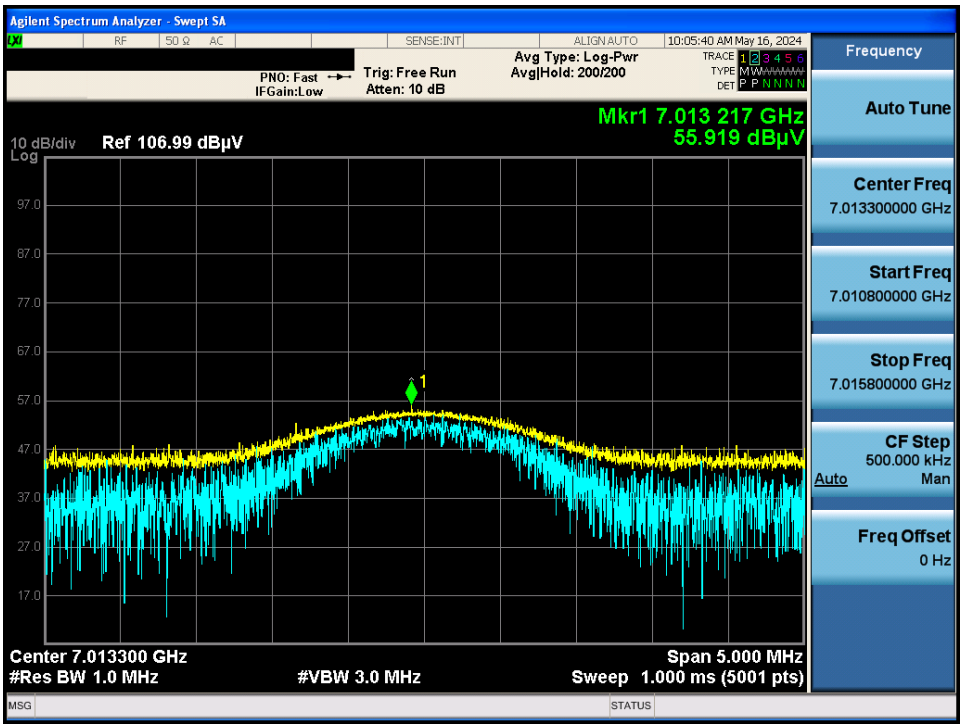


TM 1 & U-NII 2A & 5 320 & X axis & Hor **Detector Mode : PK**

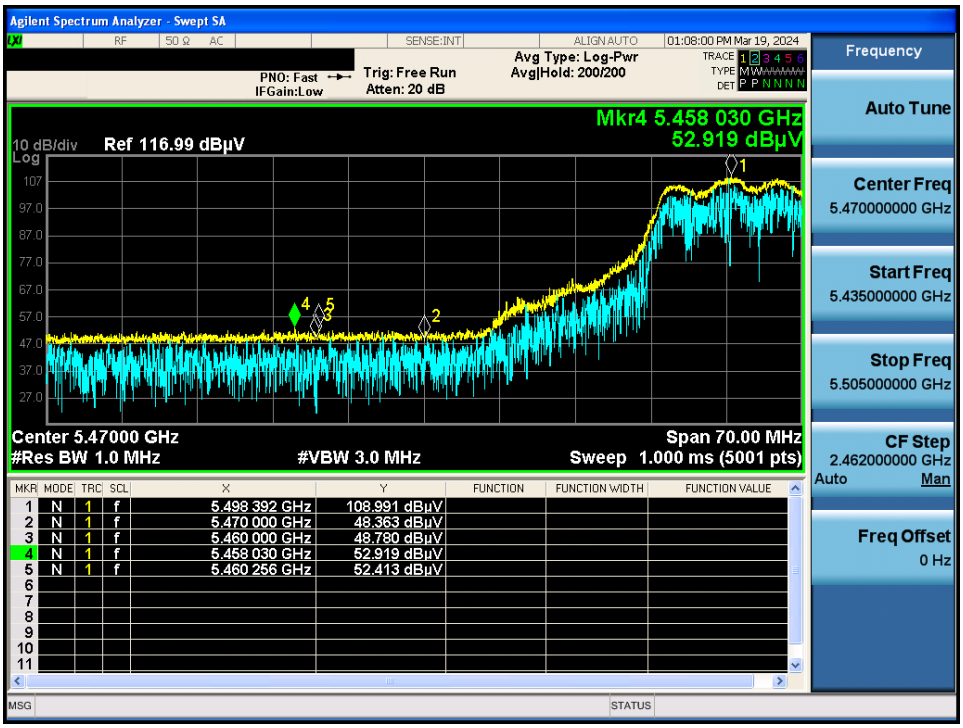


TM 1 & U-NII 2A & 5 320 & X axis & Hor **Detector Mode : AV**

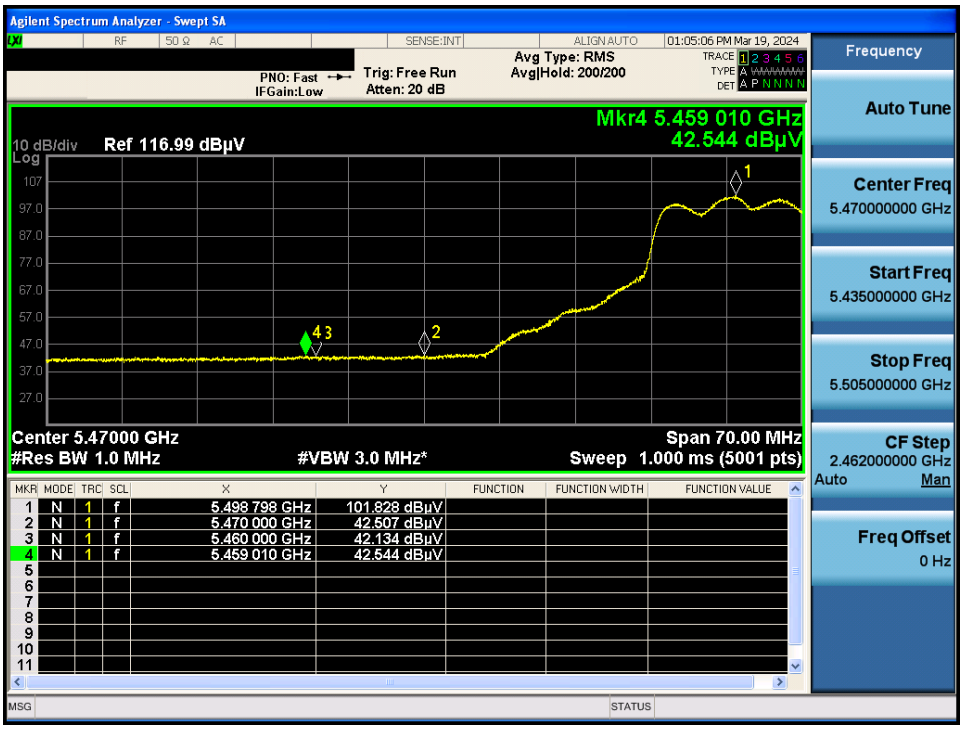
TM 1 & U-NII 2A & 5 260 & X axis & Hor **Detector Mode : PK**



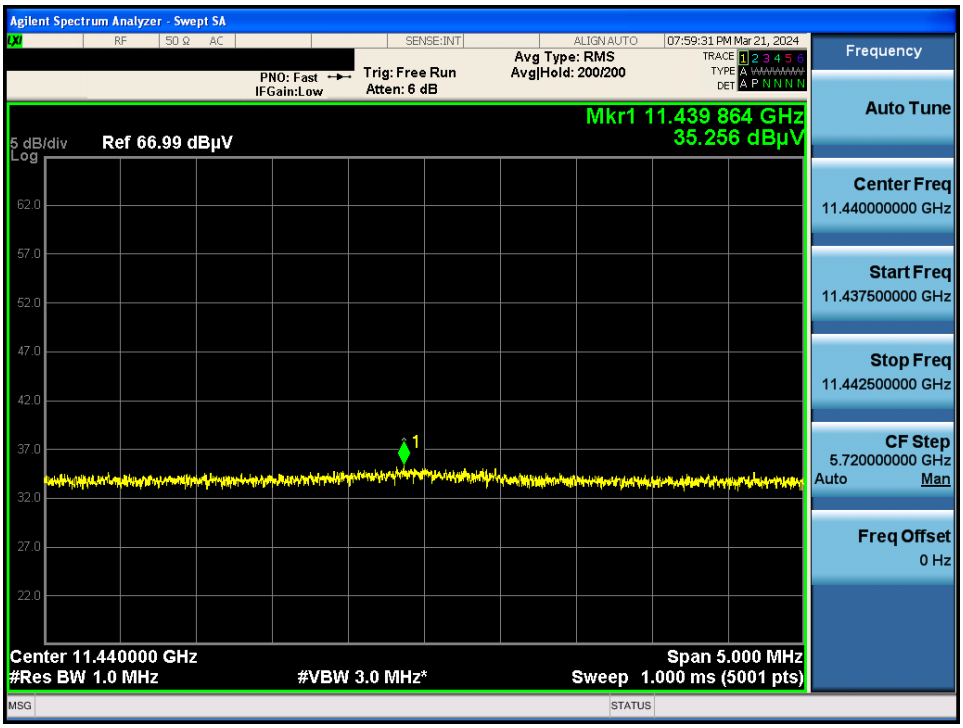
TM 1 & U-NII 2C & 5 500 & X axis & Hor **Detector Mode : PK**



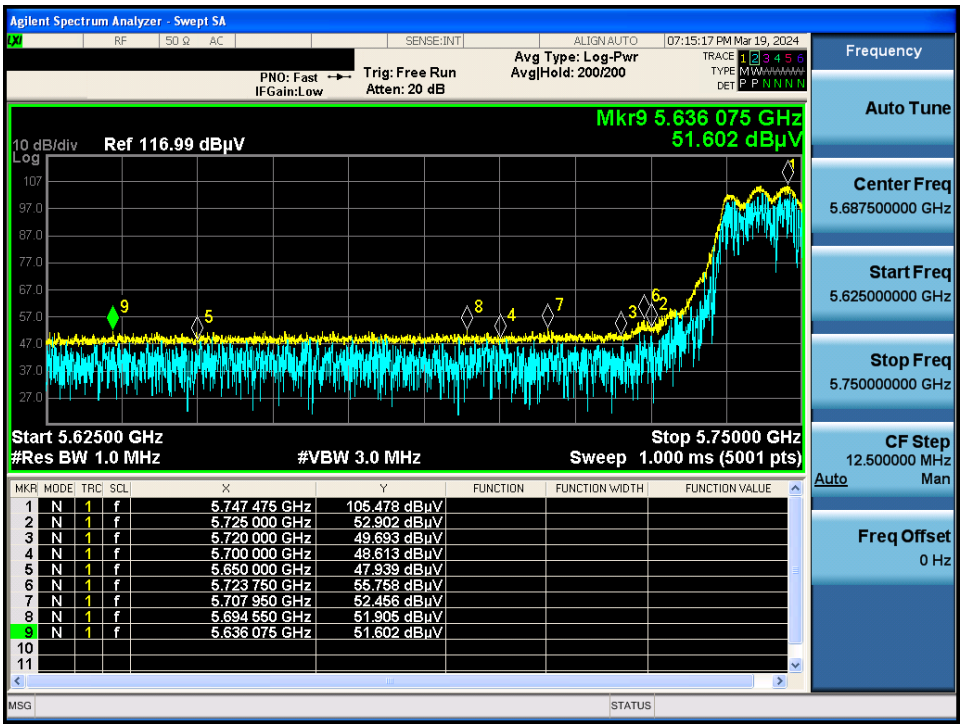
TM 1 & U-NII 2C & 5 500 & X axis & Hor **Detector Mode : AV**



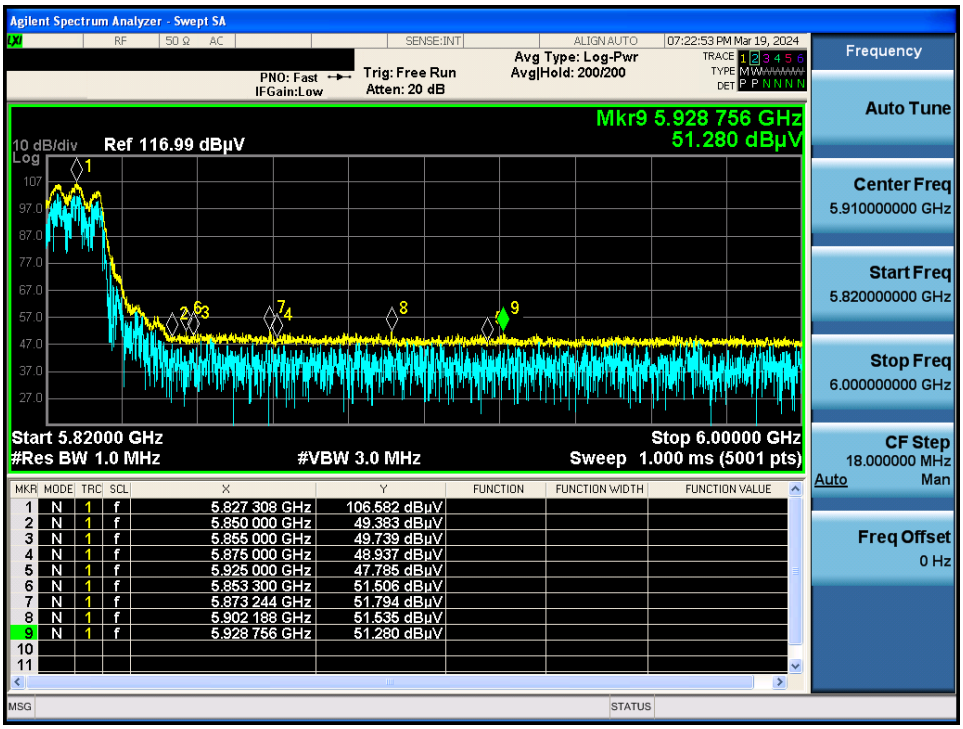
TM 1 & U-NII 2C & 5 720 & X axis & Ver **Detector Mode : AV**



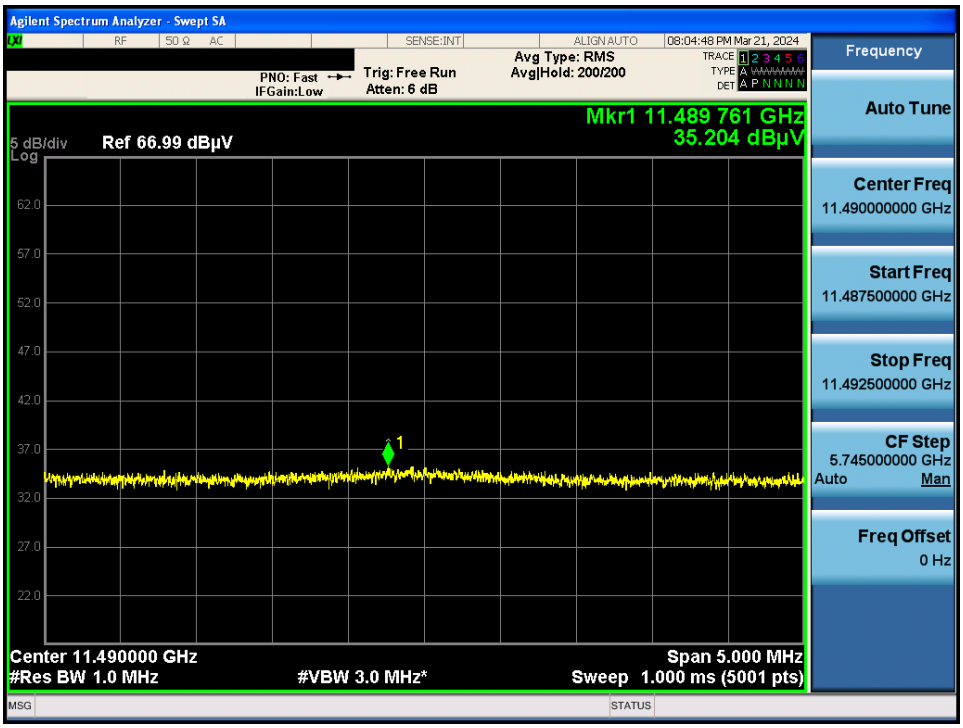
TM 1 & U-NII 3 & 5 745 & X axis & Hpr **Detector Mode : PK**



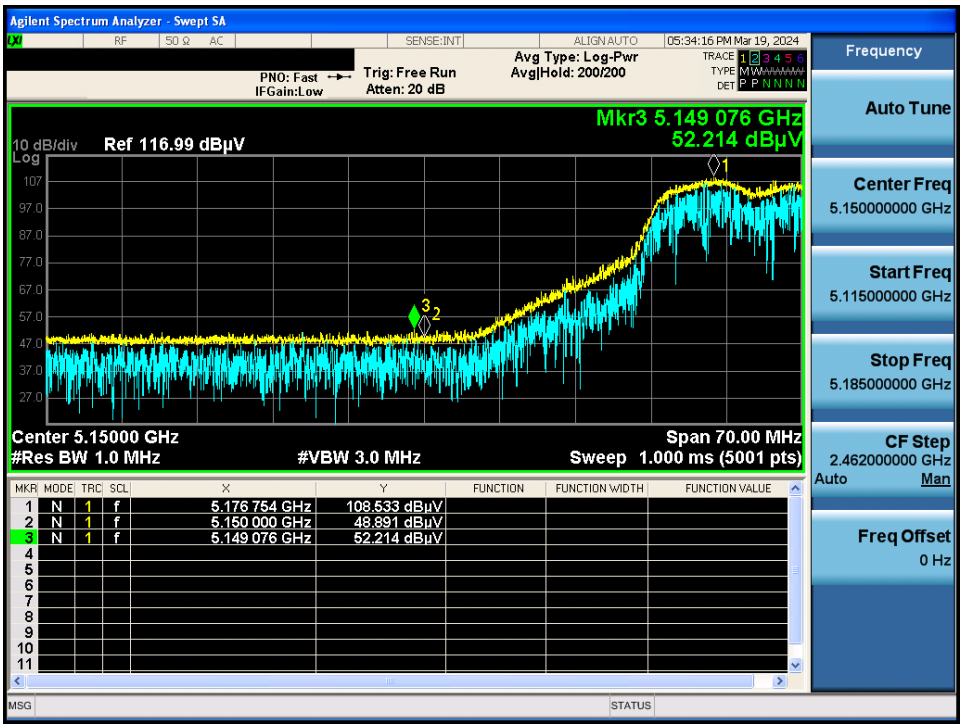
TM 1 & U-NII 3 & 5 825 & X axis & Hor **Detector Mode : PK**



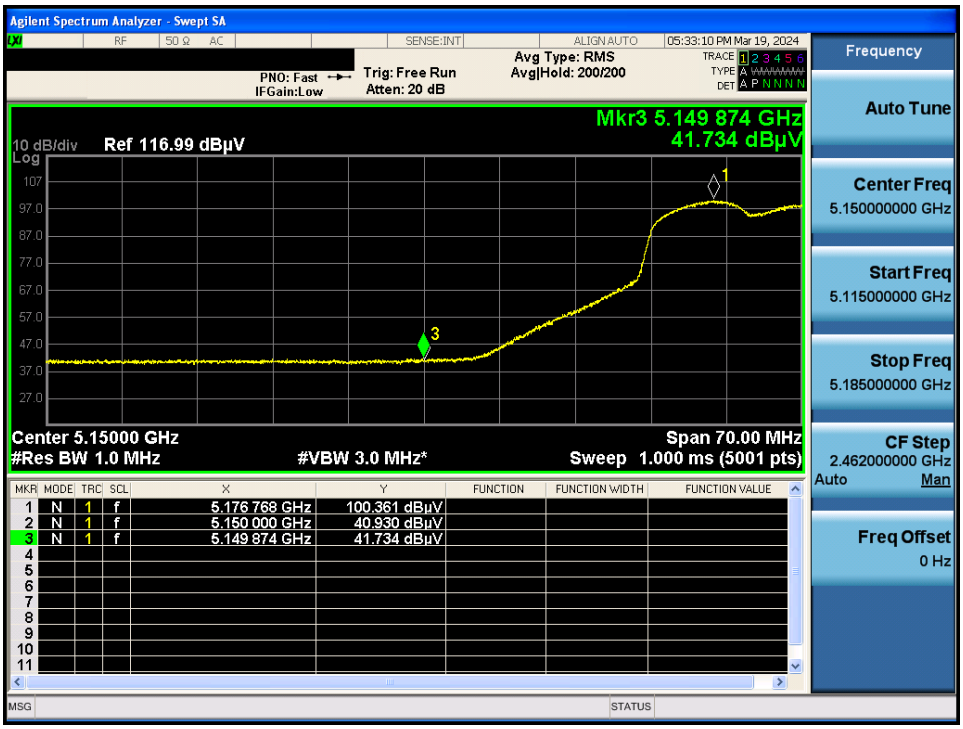
TM 1 & U-NII 3 & 5 745 & X axis & Ver **Detector Mode : AV**



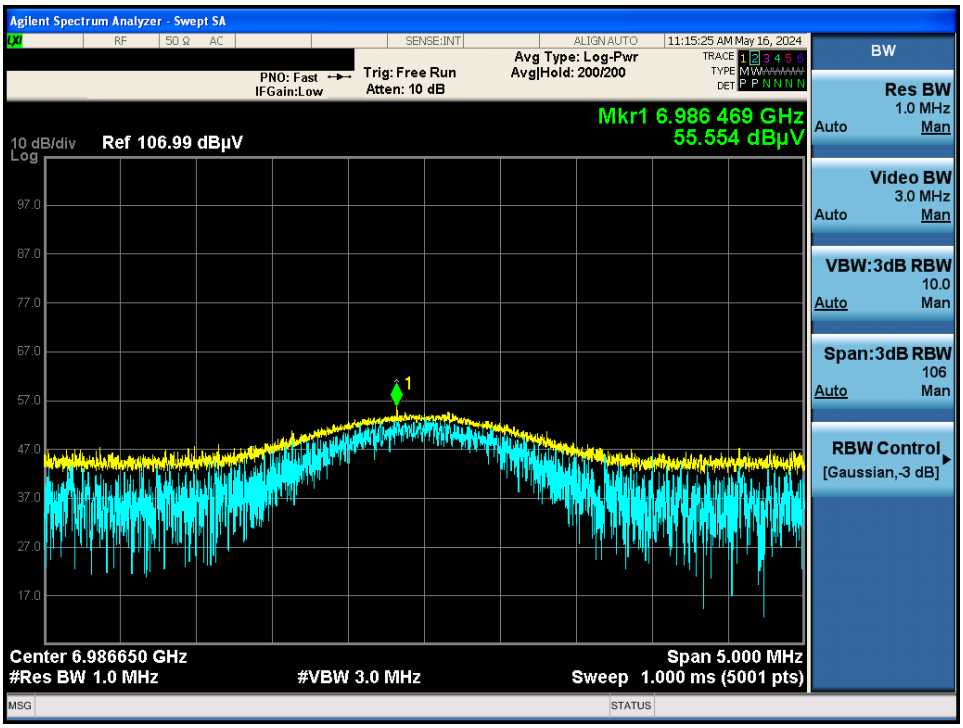
TM 2 & U-NII 1 & 5 180 & X axis & Hor **Detector Mode : PK**



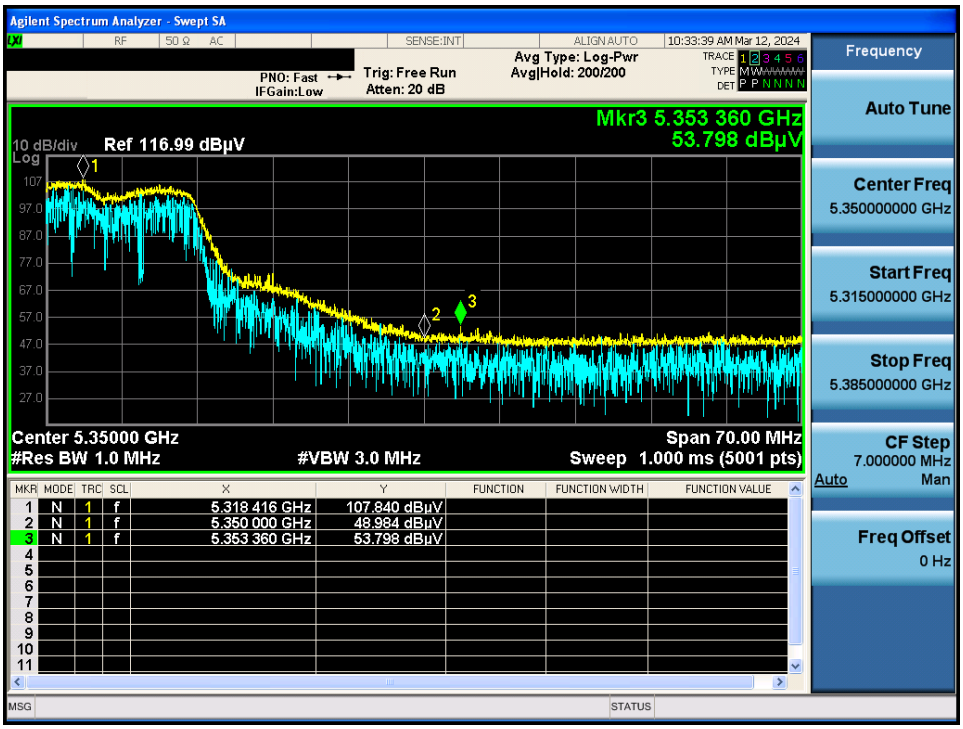
TM 2 & U-NII 1 & 5 180 & X axis & Hor **Detector Mode : AV**



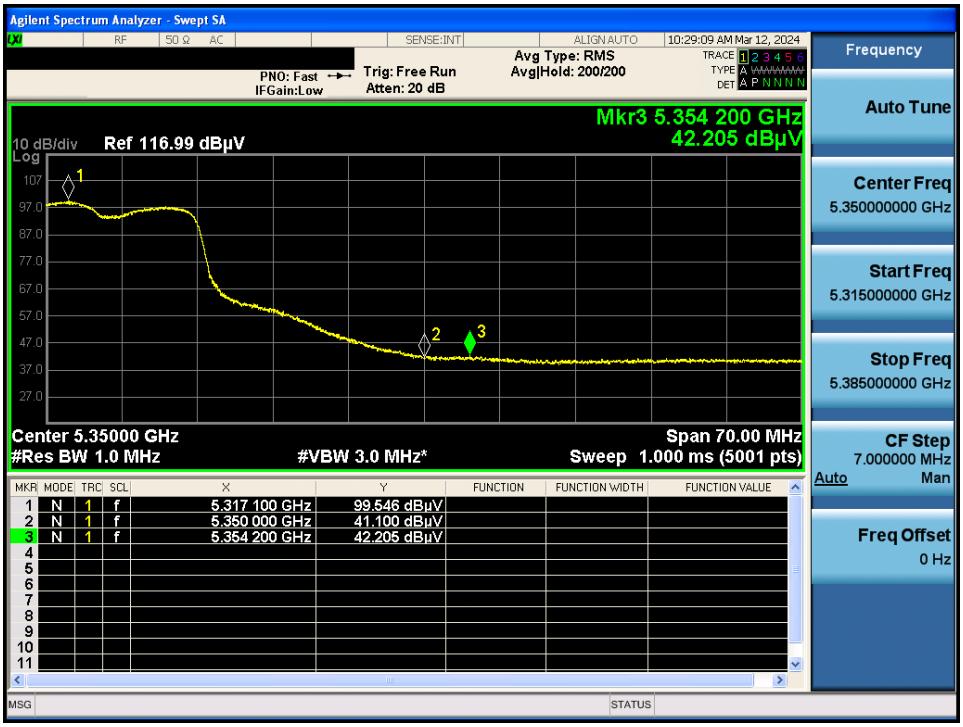
TM 2 & U-NII 1 & 5 240 & X axis & Hor **Detector Mode : PK**



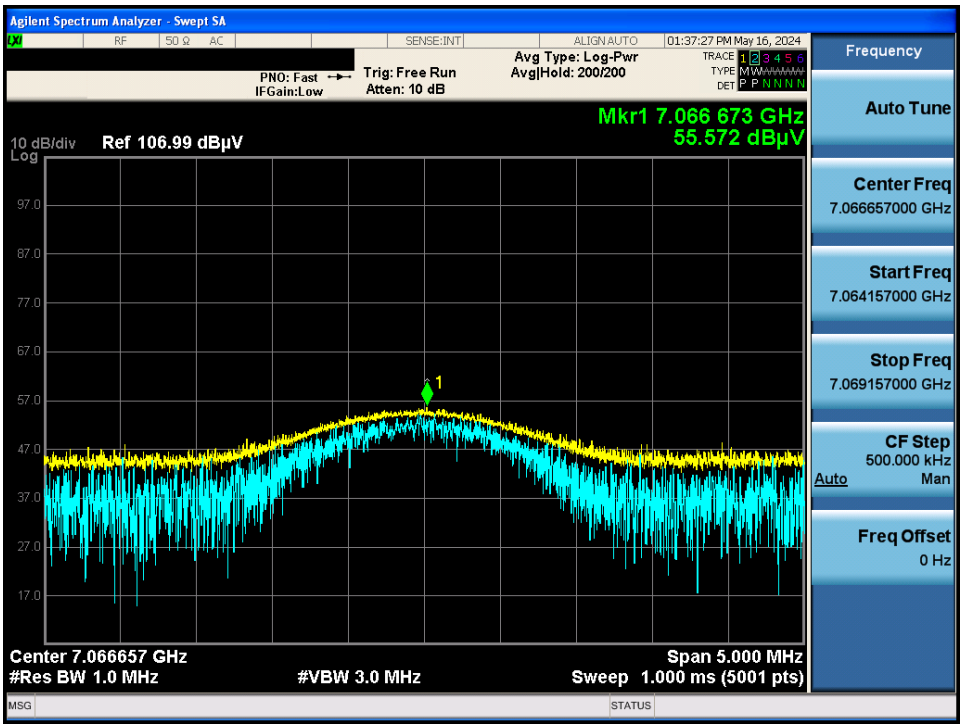
TM 2 & U-NII 2A & 5 320 & X axis & Hor **Detector Mode : PK**



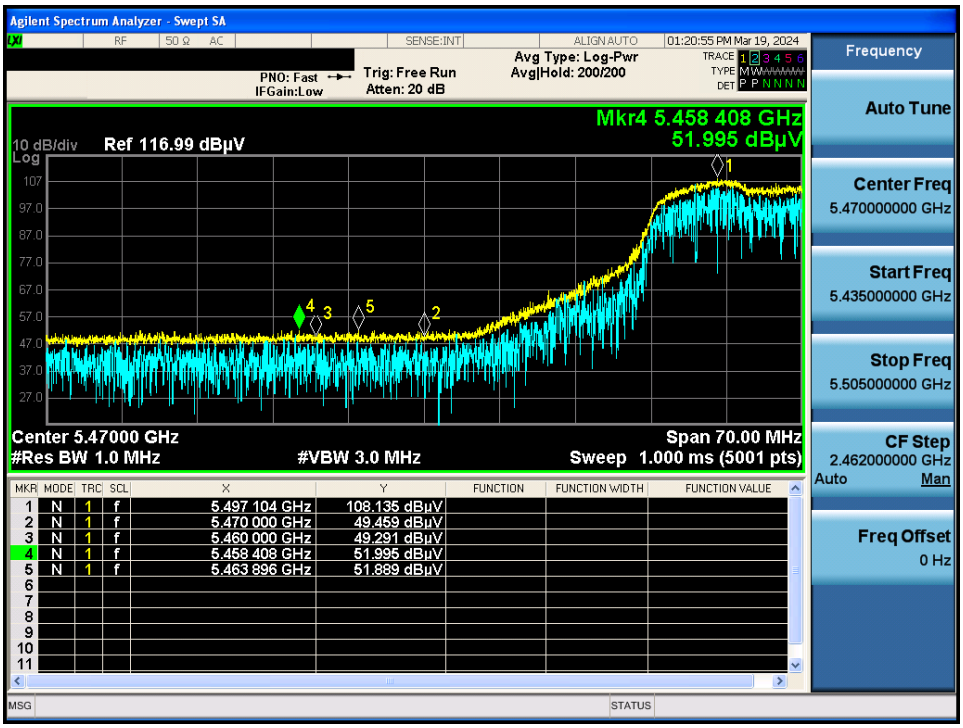
TM 2 & U-NII 2A & 5 320 & X axis & Hor **Detector Mode : AV**



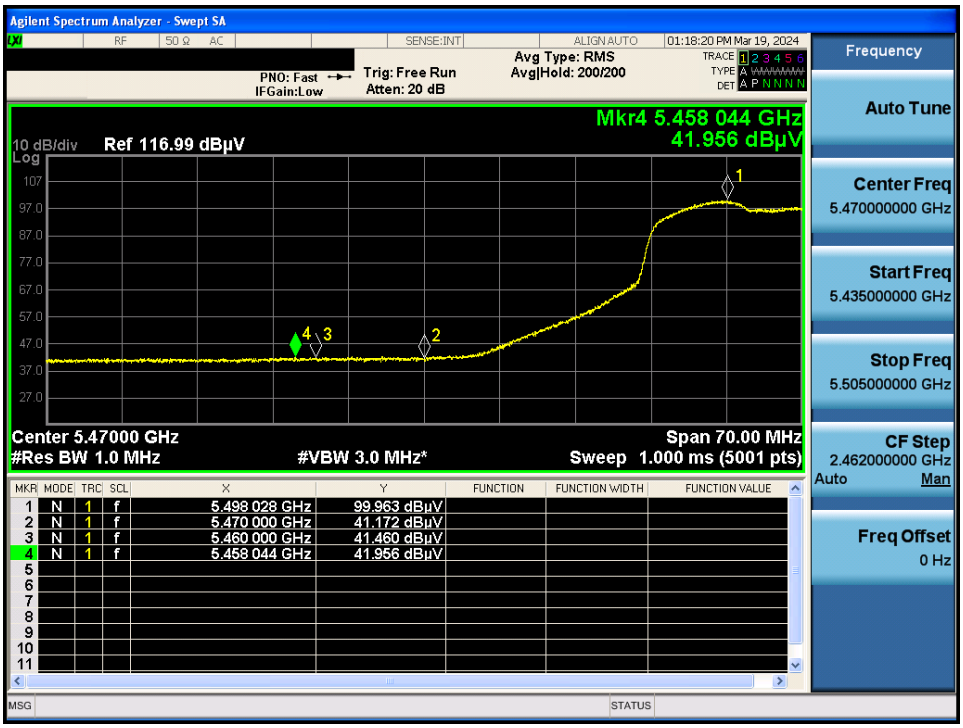
TM 2 & U-NII 2A & 5 300 & X axis & Hor **Detector Mode : PK**



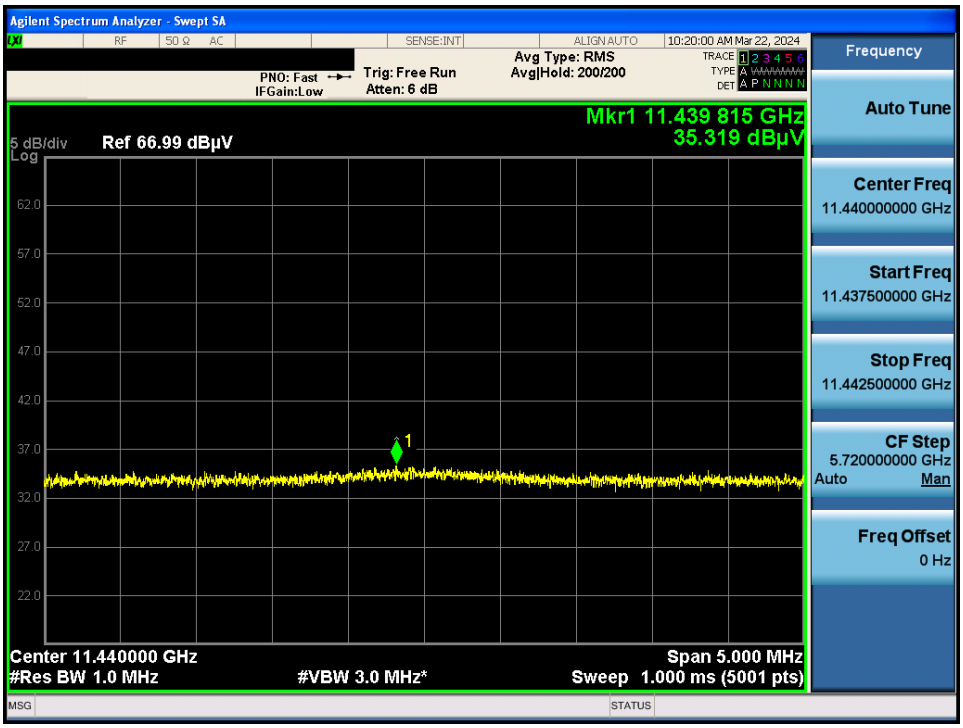
TM 2 & U-NII 2C & 5 500 & X axis & Hor **Detector Mode : PK**



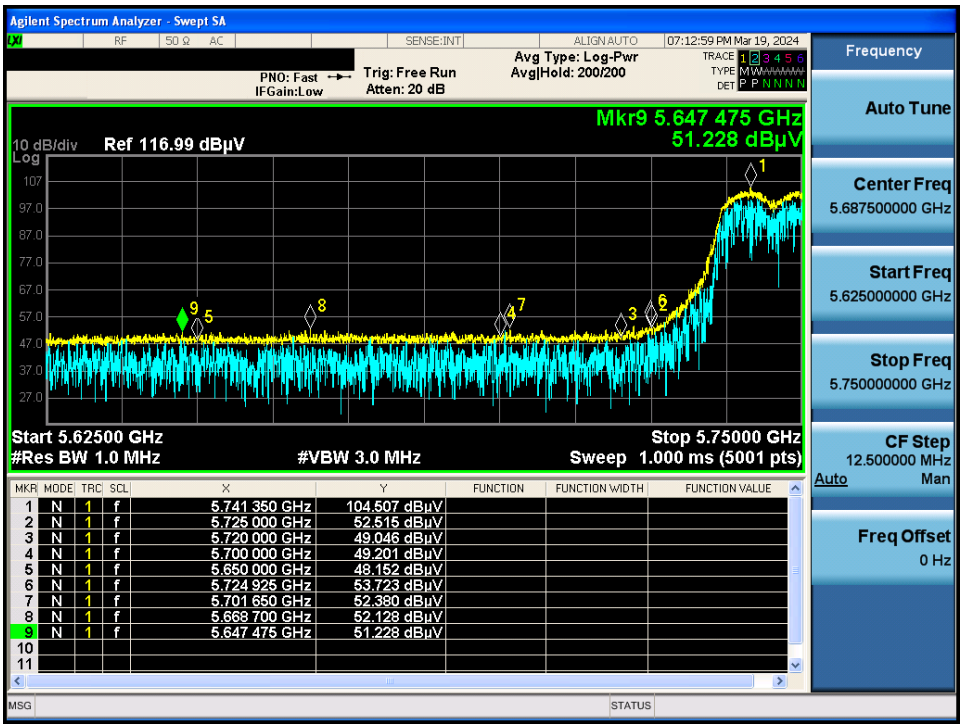
TM 2 & U-NII 2C & 5 500 & X axis & Hor **Detector Mode : AV**



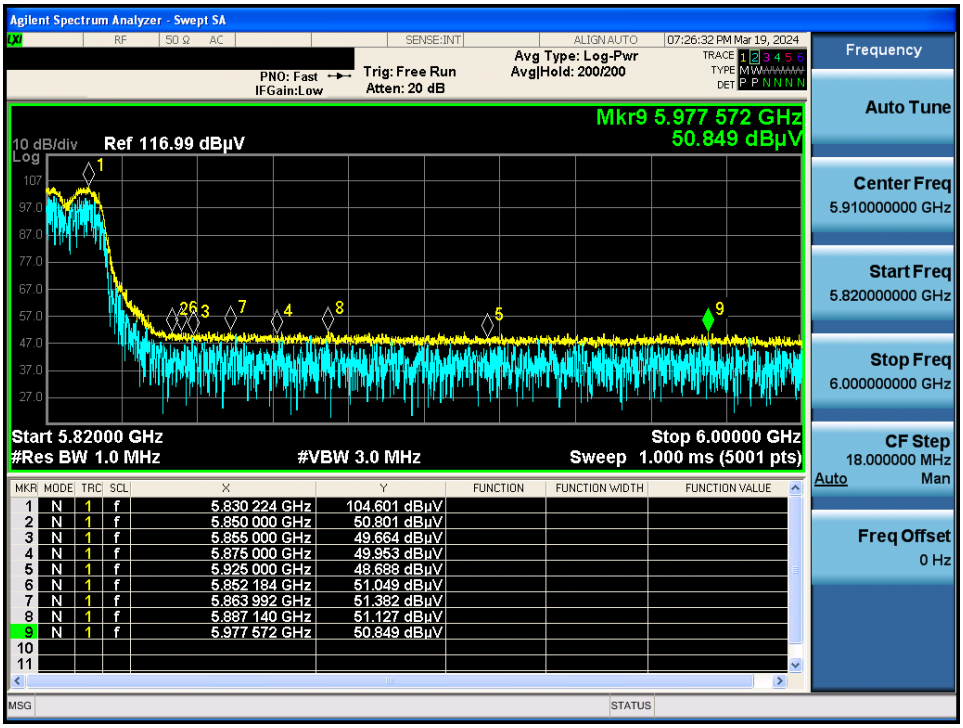
TM 2 & U-NII 2C & 5 720 & X axis & Ver **Detector Mode : AV**



TM 2 & U-NII 3 & 5 745 & X axis & Hor **Detector Mode : PK**



TM 2 & U-NII 3 & 5 825 & X axis & Hor **Detector Mode : PK**



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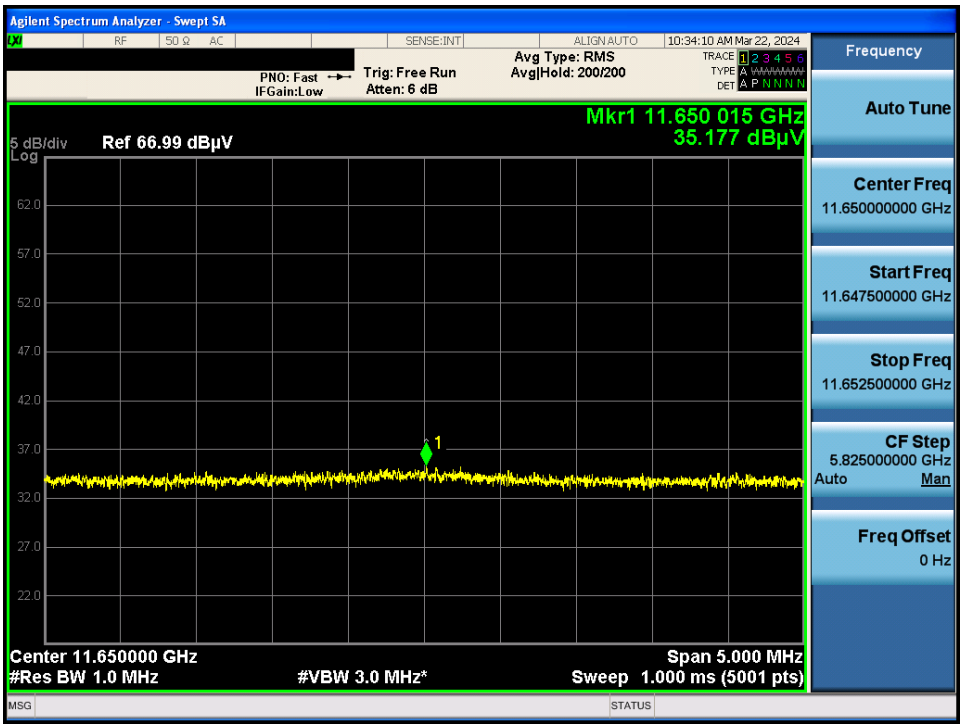
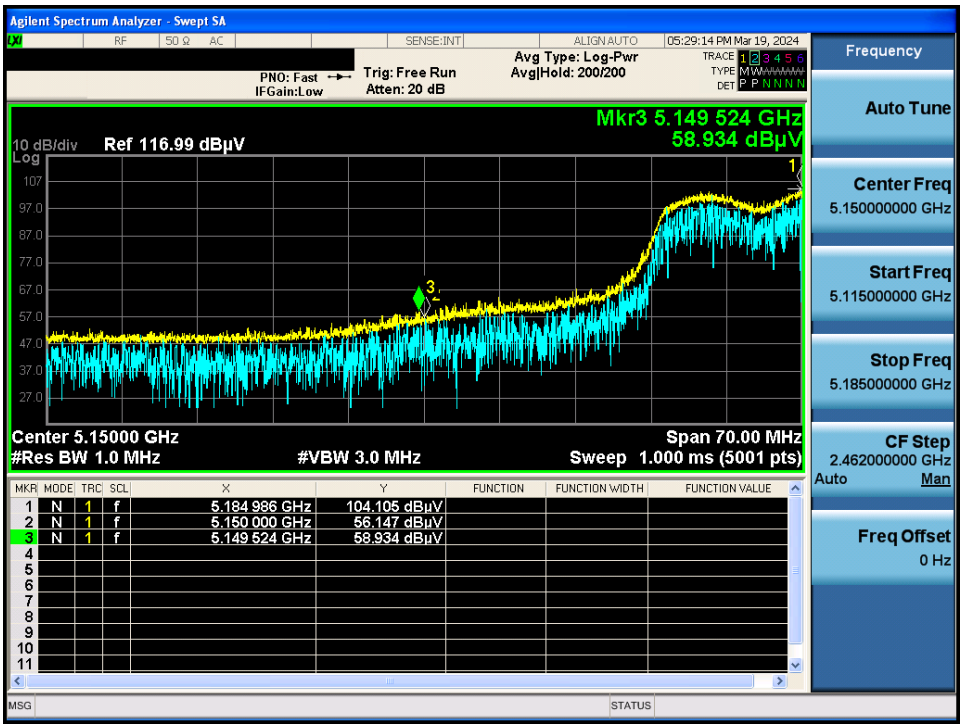
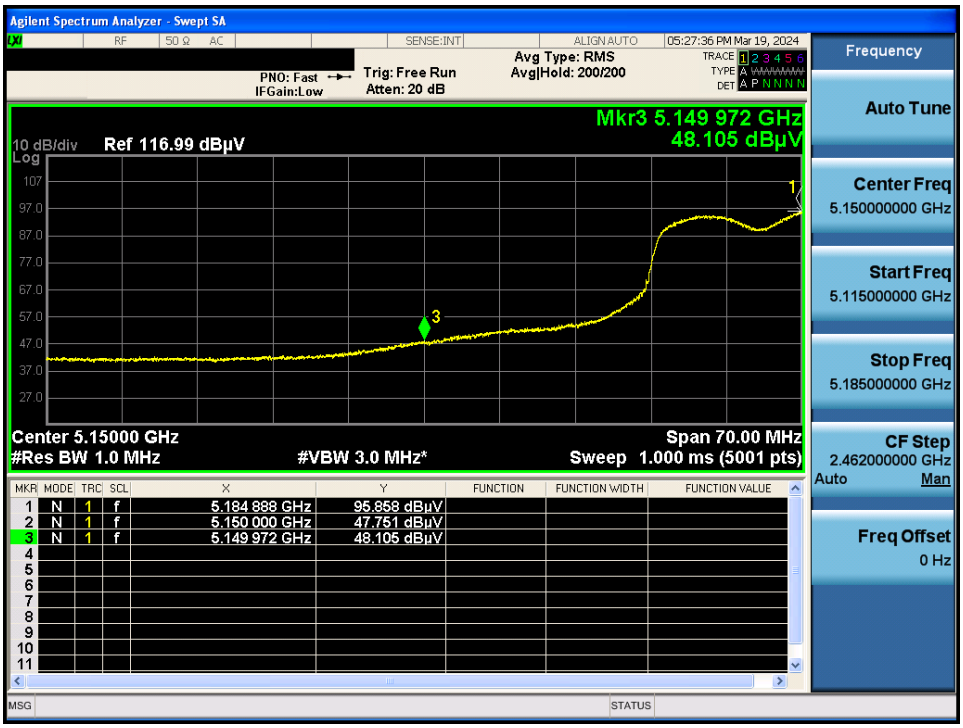
TM 2 & U-NII 3 & 5 825 & X axis & Ver **Detector Mode : AV**



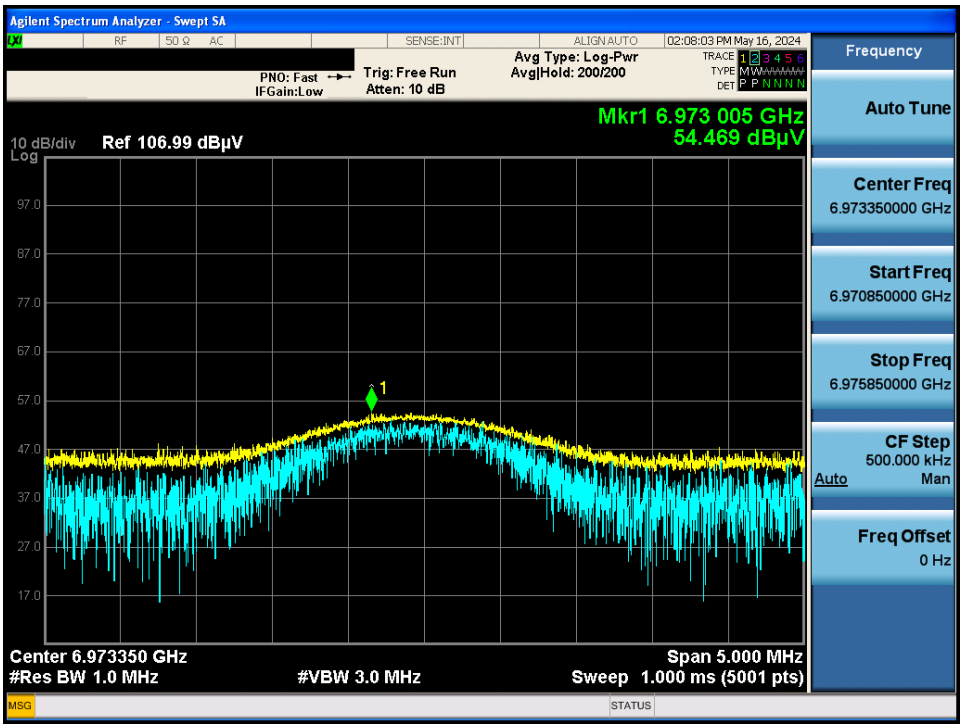
TM 3 & U-NII 1 & 5 190 & X axis & Hor **Detector Mode : PK**



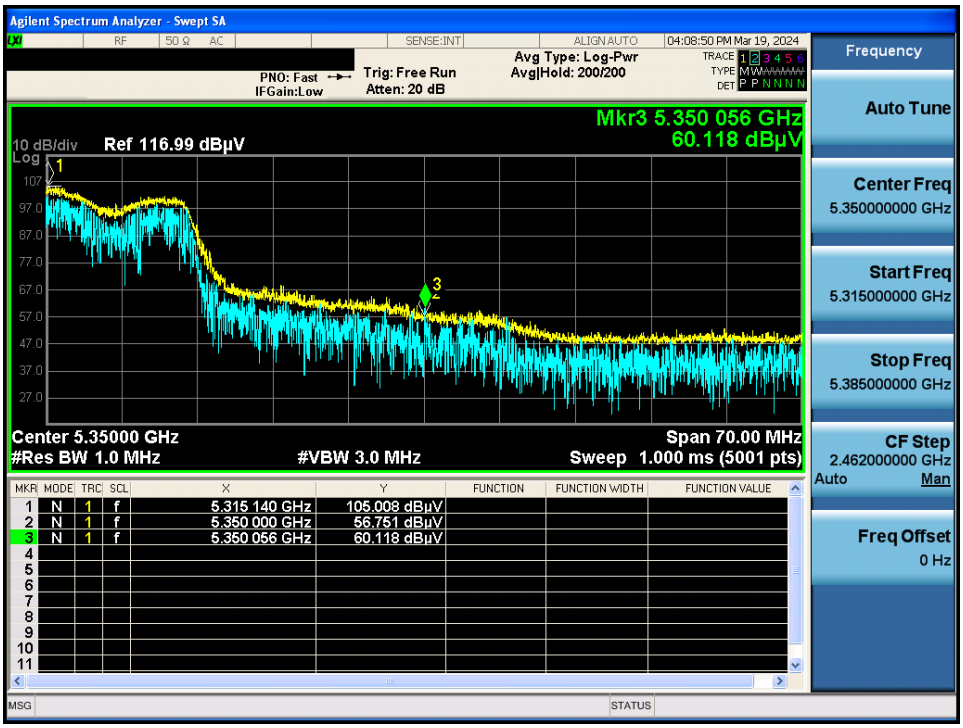
TM 3 & U-NII 1 & 5 190 & X axis & Hor **Detector Mode : AV**



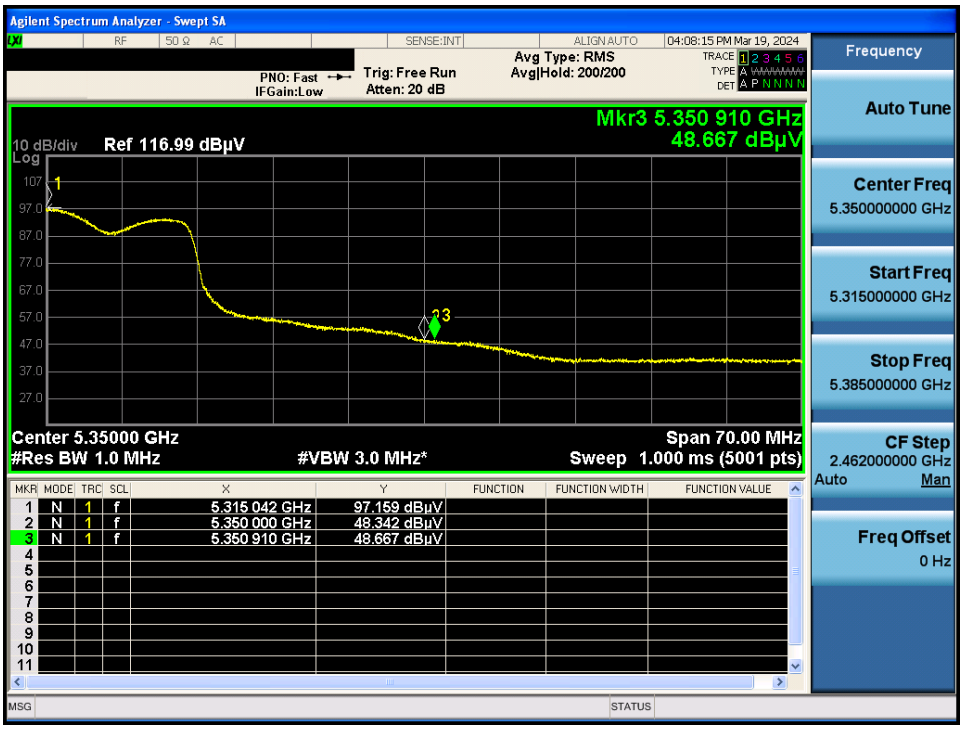
TM 3 & U-NII 1 & 5 230 & X axis & Hor **Detector Mode : PK**



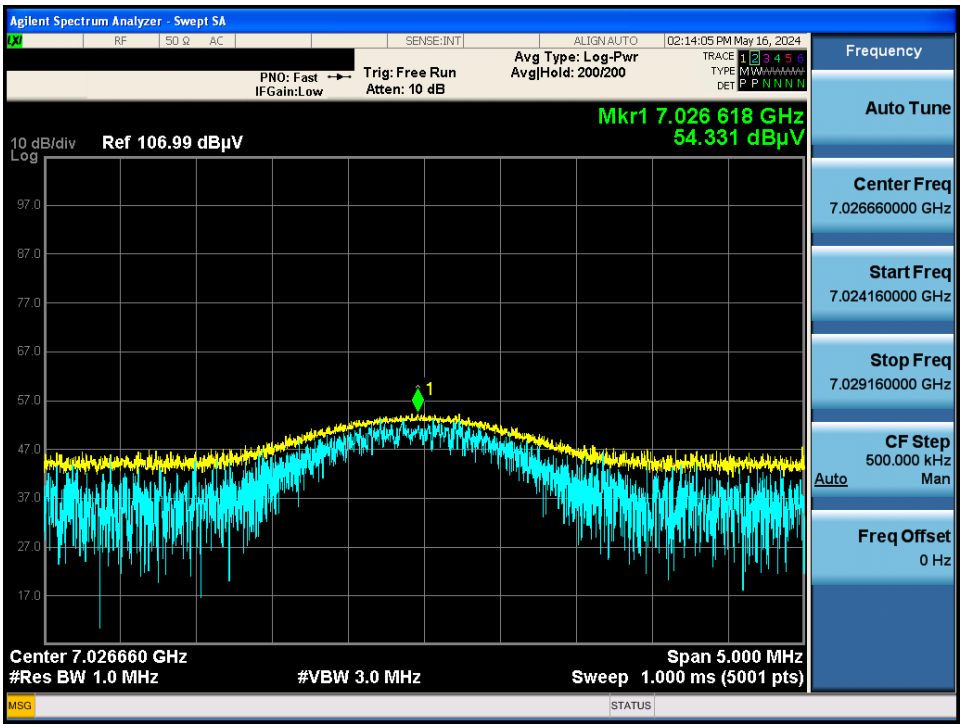
TM 3 & U-NII 2A & 5 310 & X axis & Hor **Detector Mode : PK**



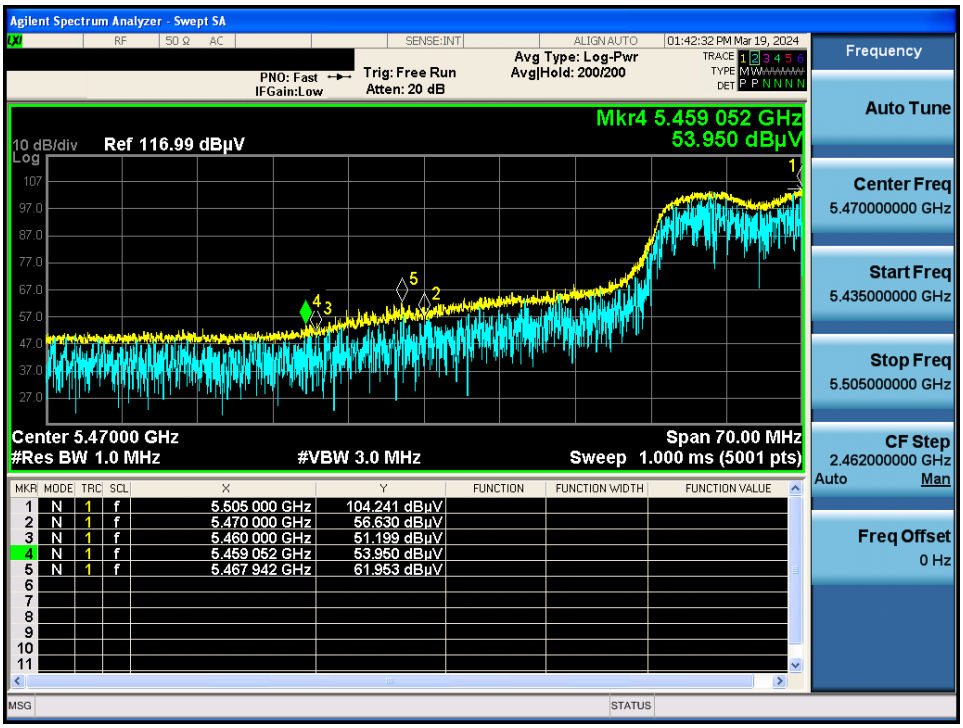
TM 3 & U-NII 2A & 5 310 & X axis & Hor **Detector Mode : AV**



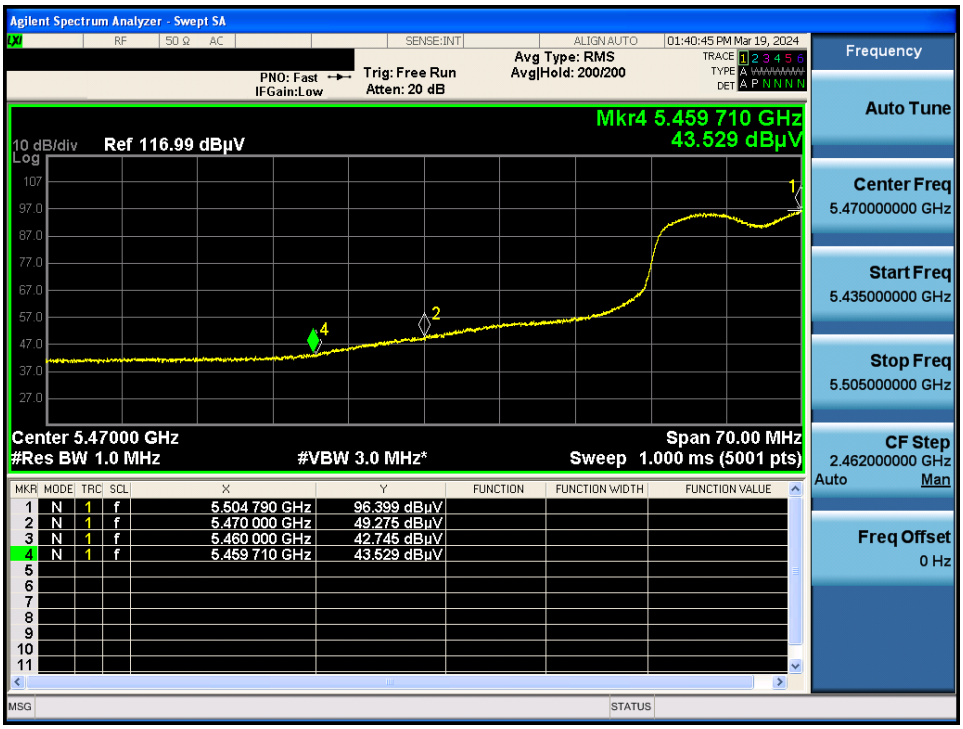
TM 3 & U-NII 2A & 5 270 & X axis & Hor **Detector Mode : PK**



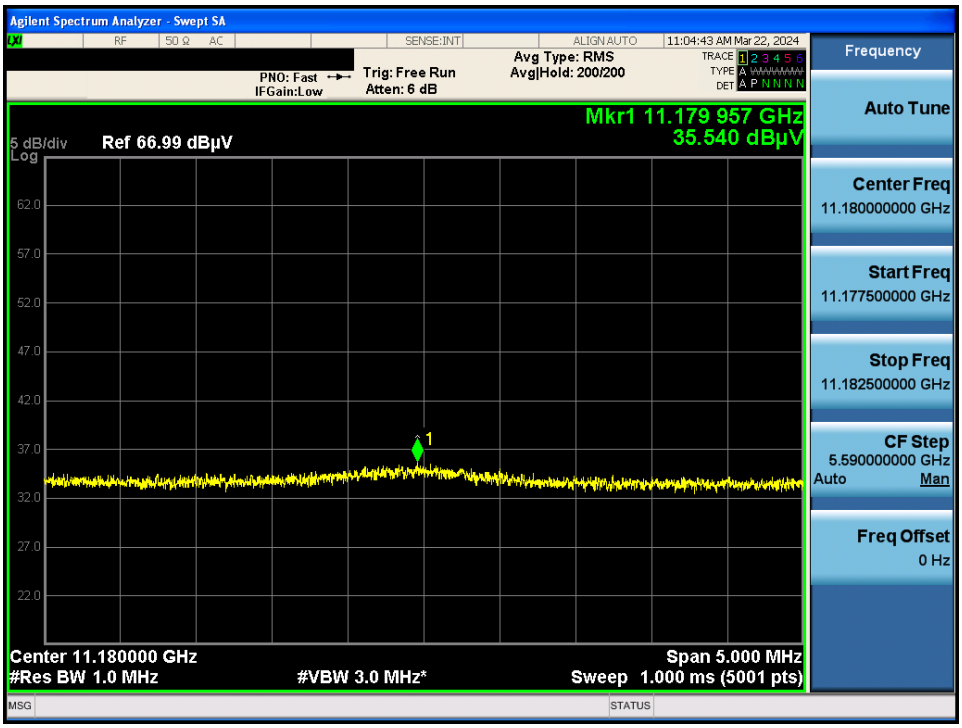
TM 3 & U-NII 2C & 5 510 & X axis & Hor **Detector Mode : PK**



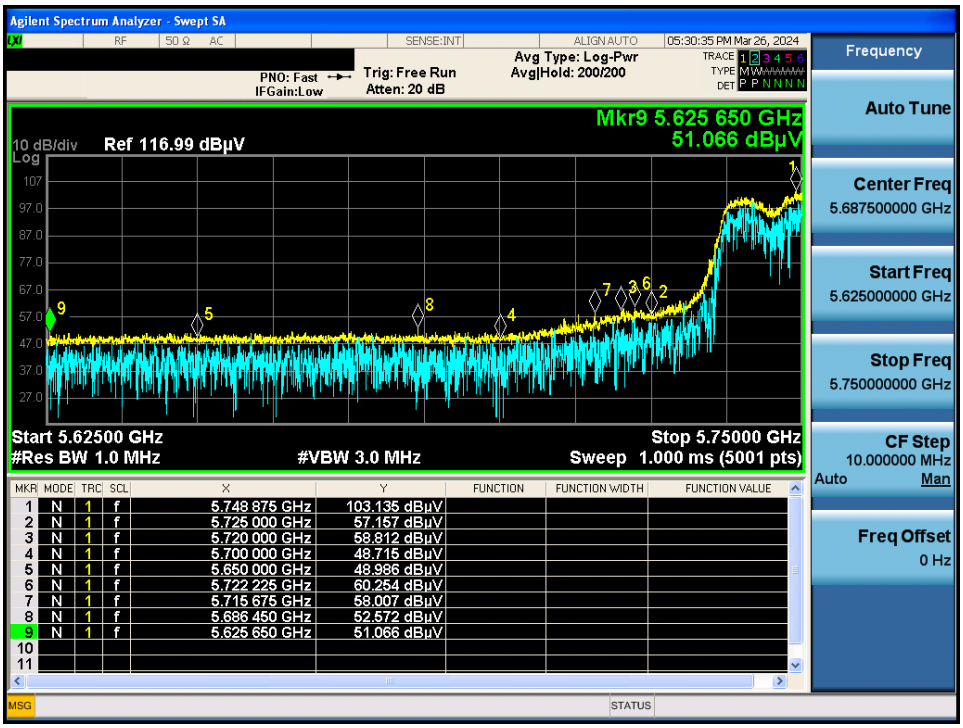
TM 3 & U-NII 2C & 5 510 & X axis & Hor **Detector Mode : AV**



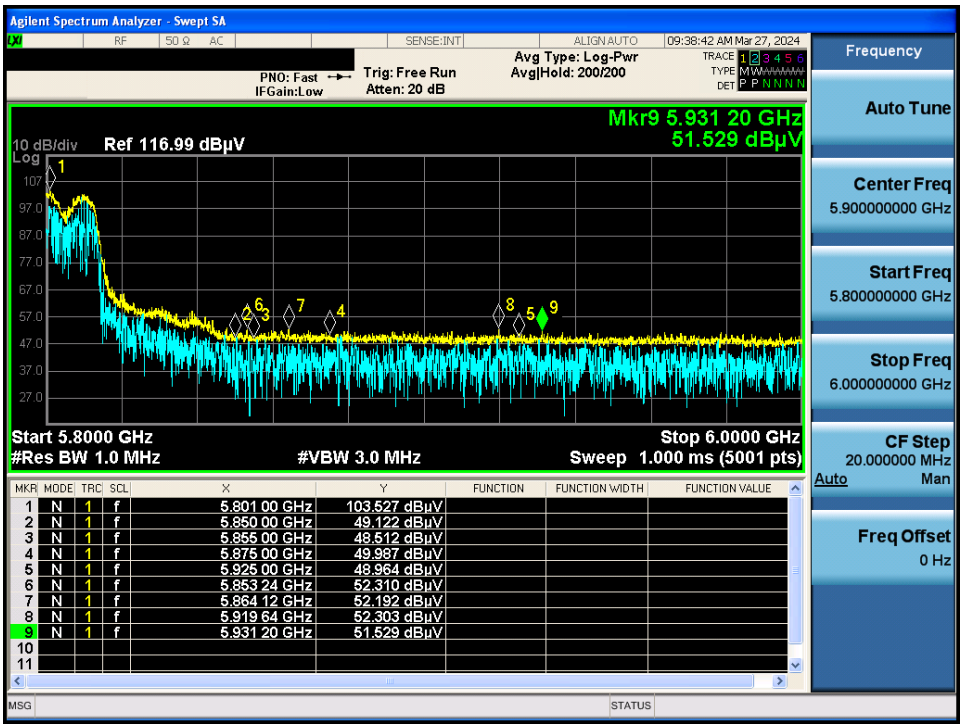
TM 3 & U-NII 2C & 5 590 & X axis & Ver **Detector Mode : AV**



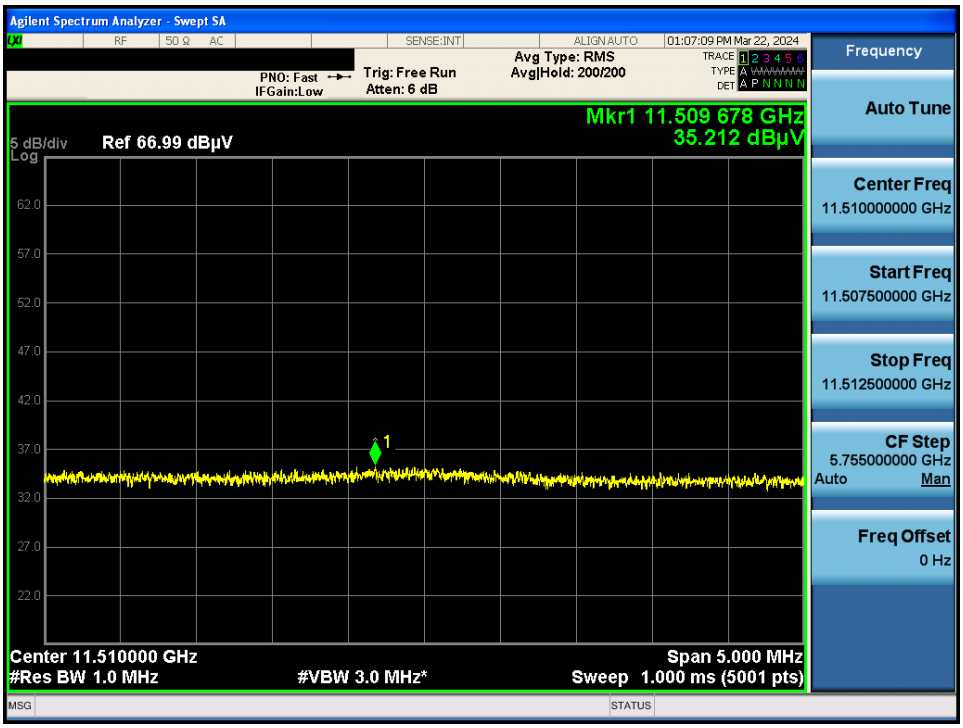
TM 3 & U-NII 3 & 5 755 & X axis & Hor **Detector Mode : PK**



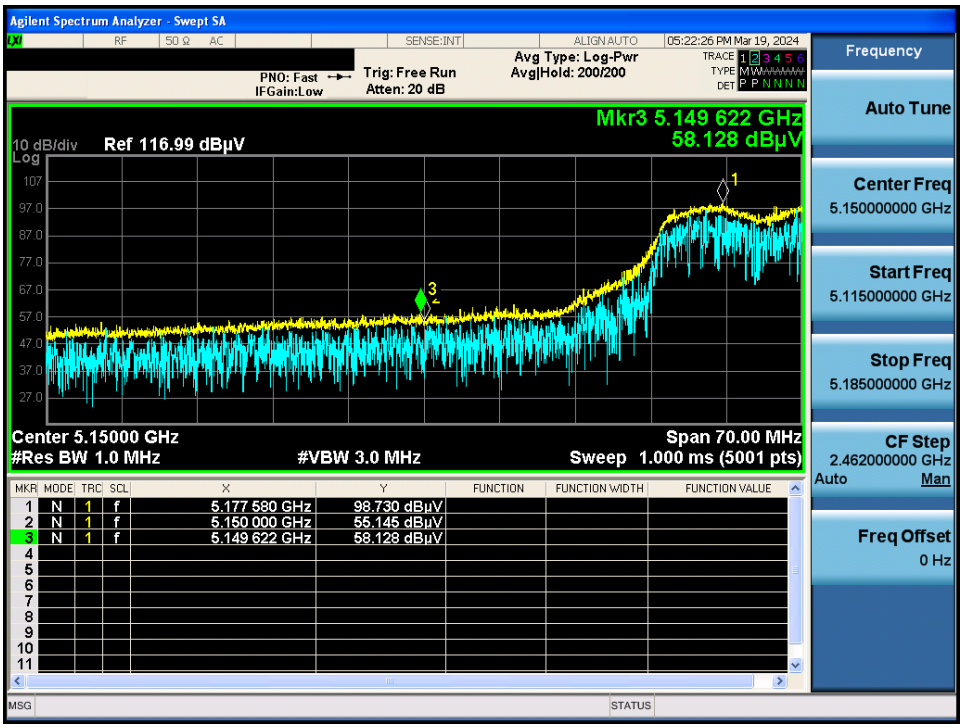
TM 3 & U-NII 3 & 5 795 & X axis & Hor **Detector Mode : PK**



TM 3 & U-NII 3 & 5 755 & X axis & Ver **Detector Mode : AV**

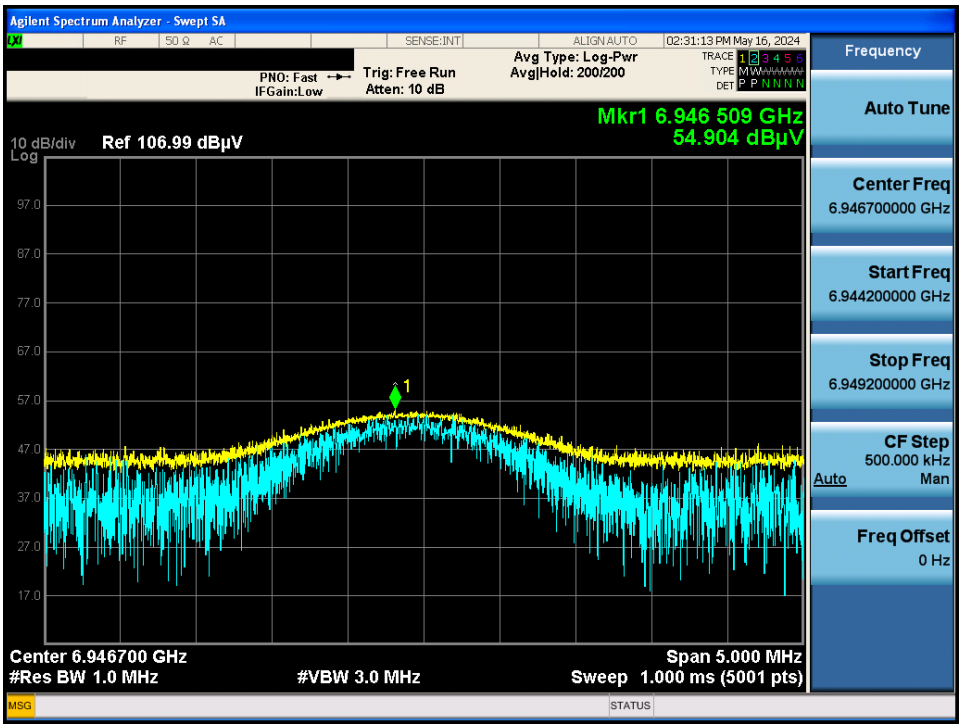


TM 4 & U-NII 1 & 5 210 & X axis & Hor **Detector Mode : PK**

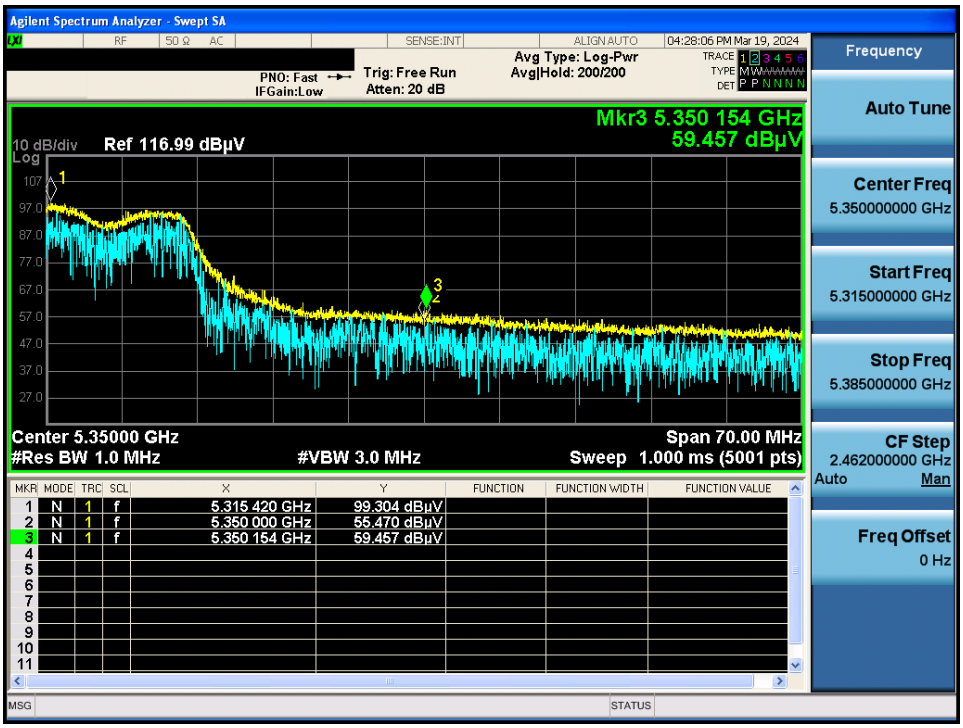


TM 4 & U-NII 1 & 5 210 & X axis & Hor **Detector Mode : AV**

TM 4 & U-NII 1 & 5 210 & X axis & Hor **Detector Mode : PK**



TM 4 & U-NII 2A & 5 290 & X axis & Hor **Detector Mode : PK**



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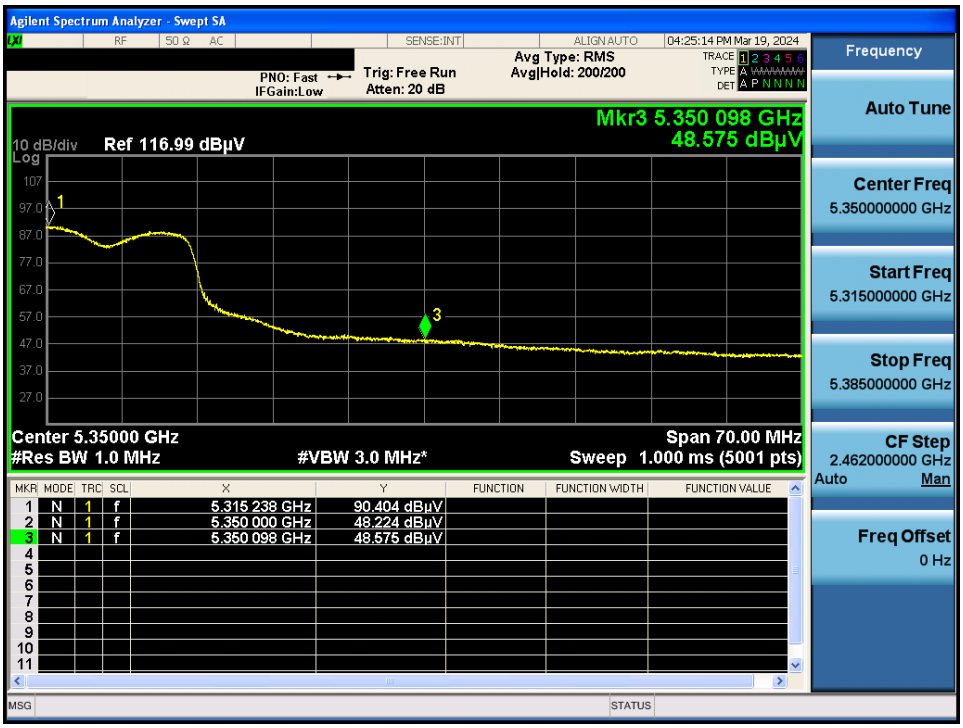
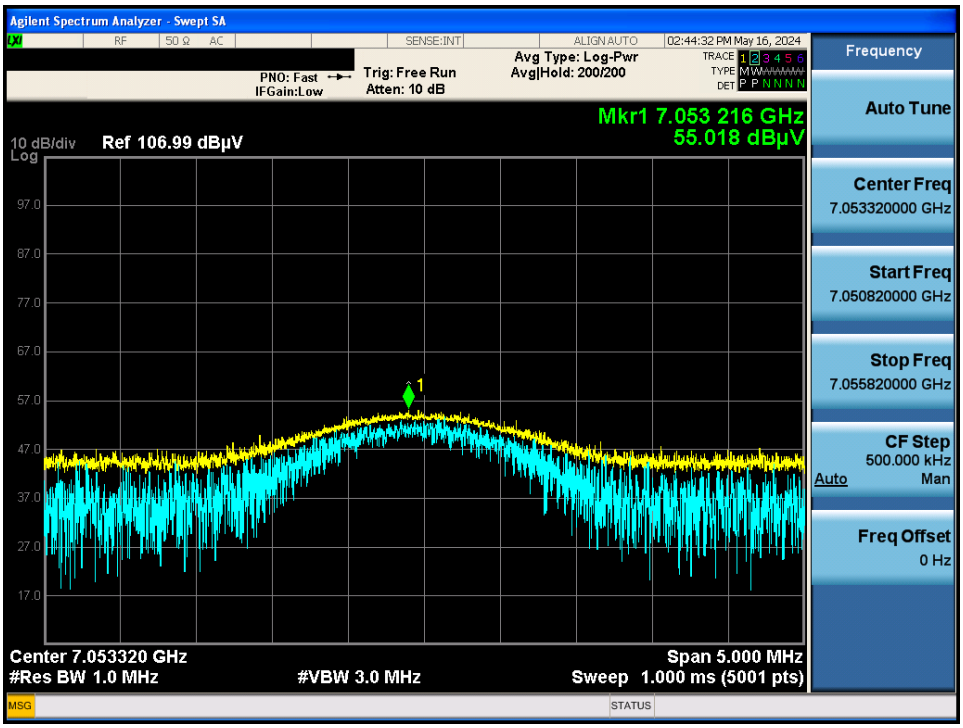
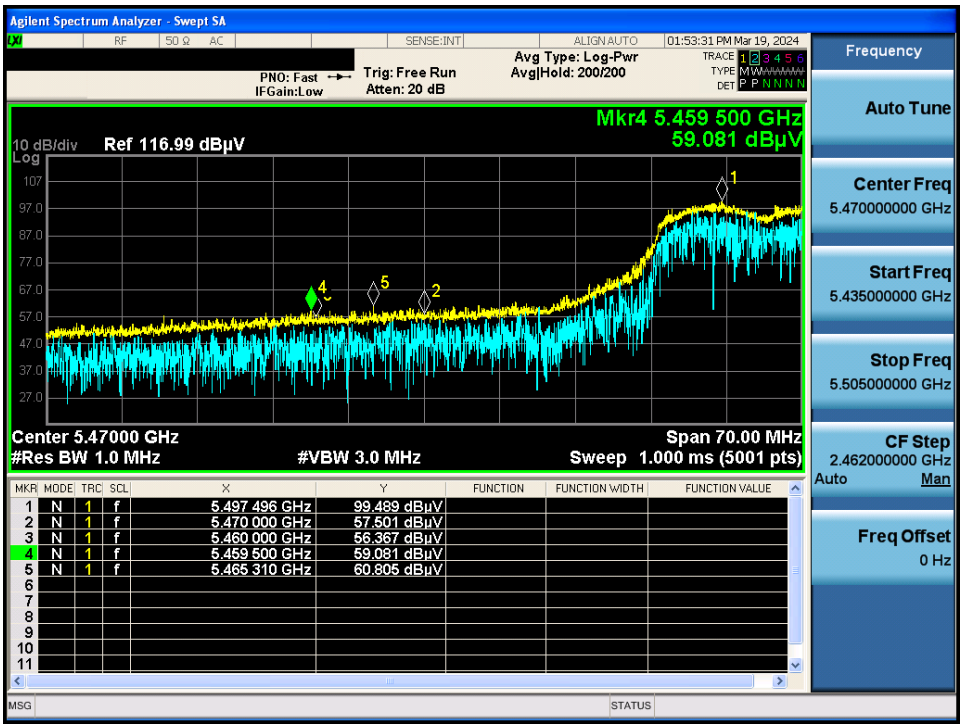


TM 4 & U-NII 2A & 5 290 & X axis & Hor **Detector Mode : PK**



TM 4 & U-NII 2C & 5 530 & X axis & Hor **Detector Mode : PK**



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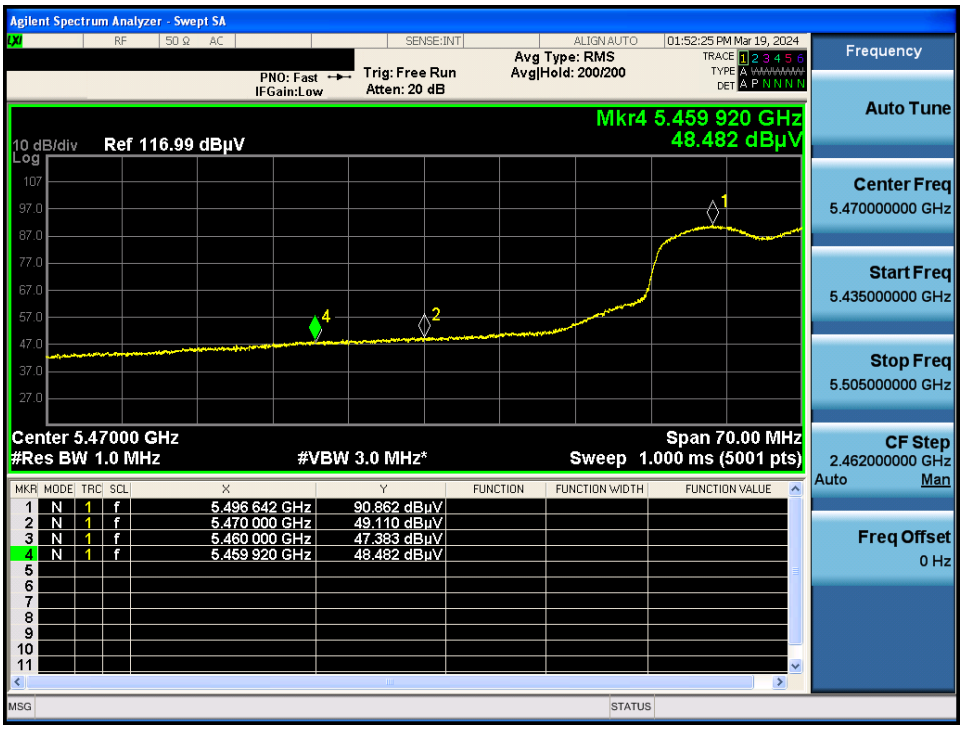
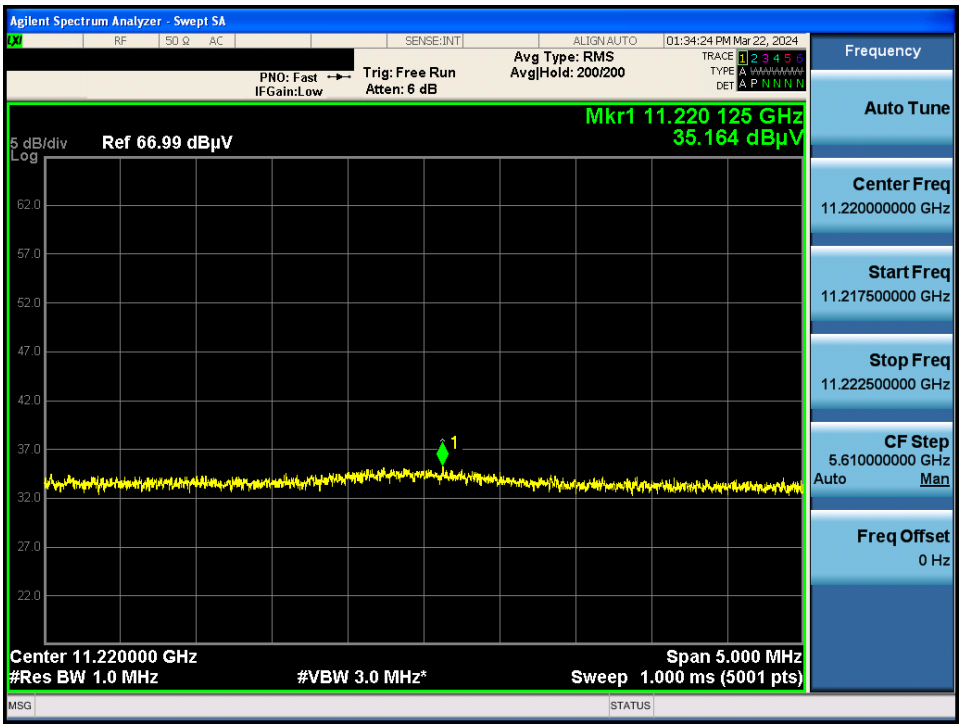
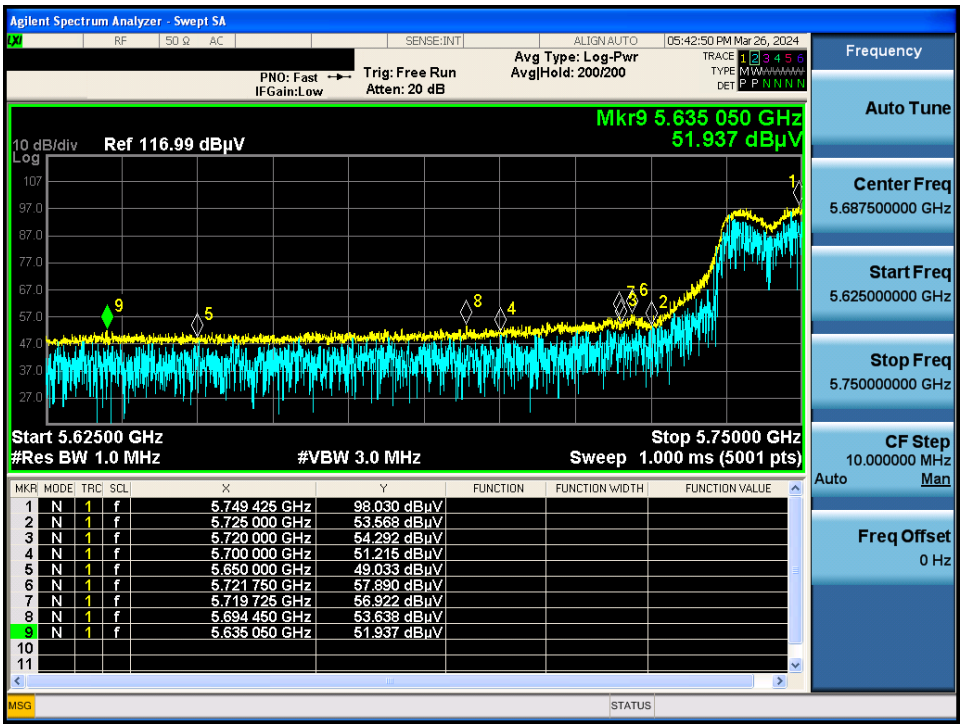


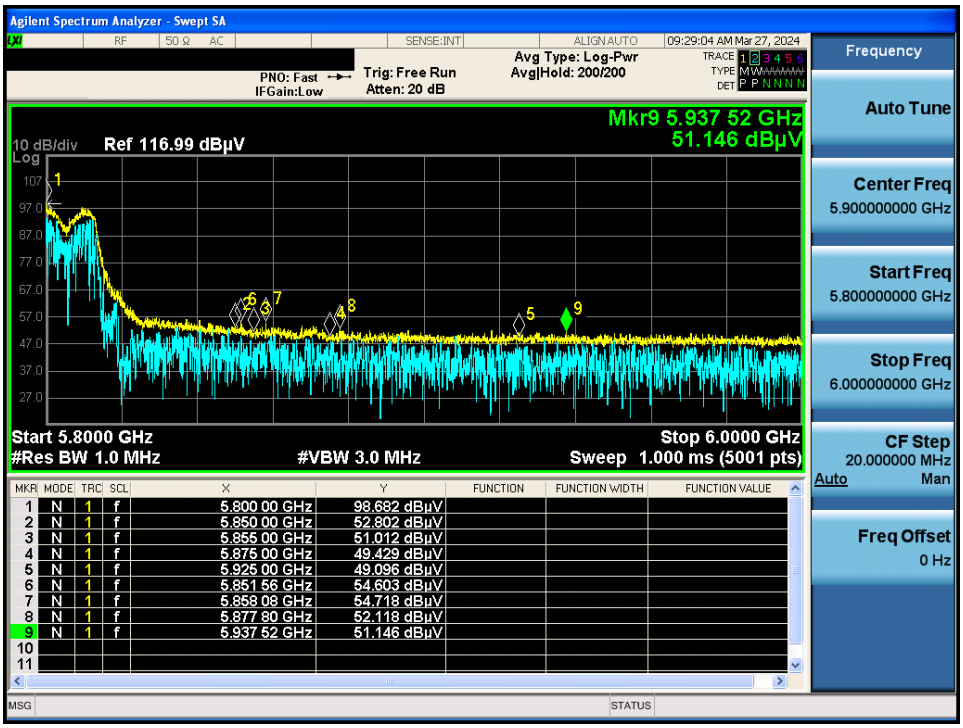
TM 4 & U-NII 2C & 5 610 & X axis & Ver **Detector Mode : AV**



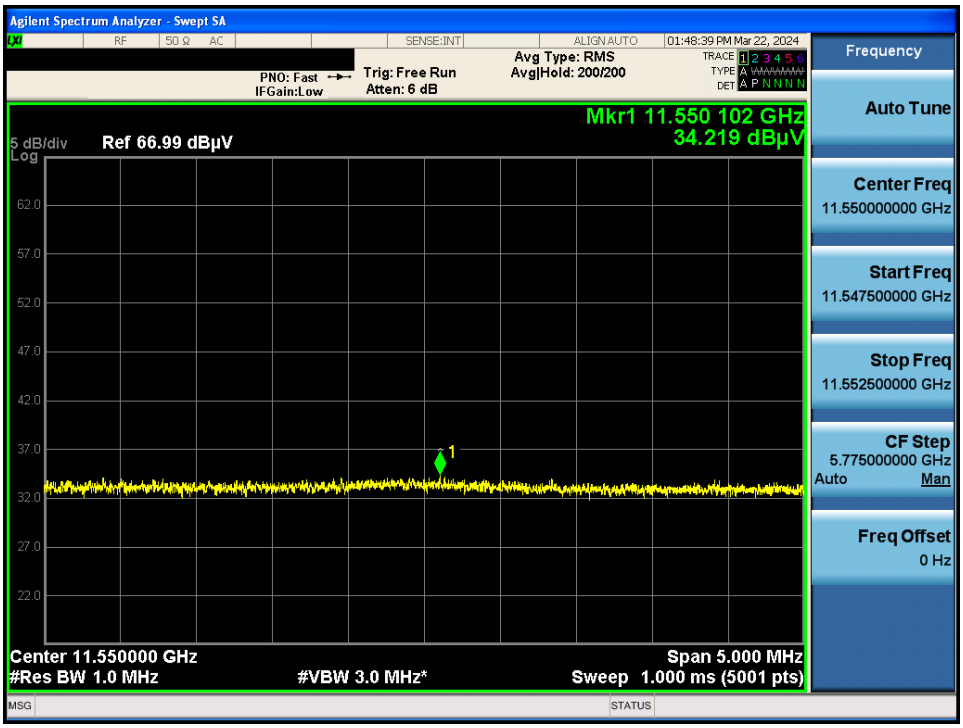
TM 4 & U-NII 3 & 5 775 & X axis & Hor **Detector Mode : PK**



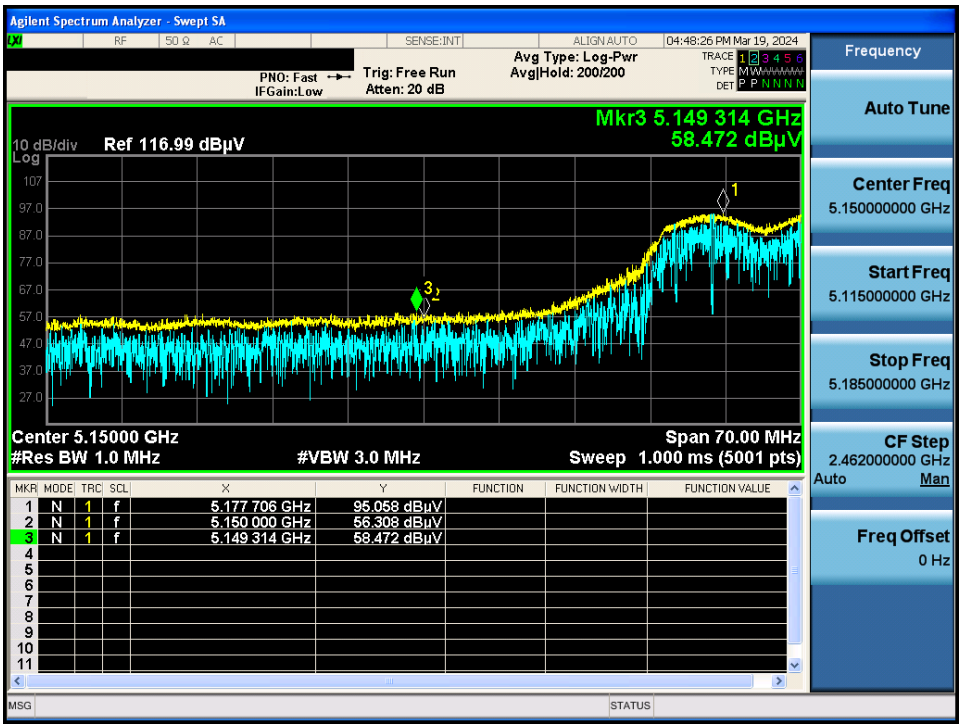
TM 4 & U-NII 3 & 5 775 & X axis & Hor **Detector Mode : PK**



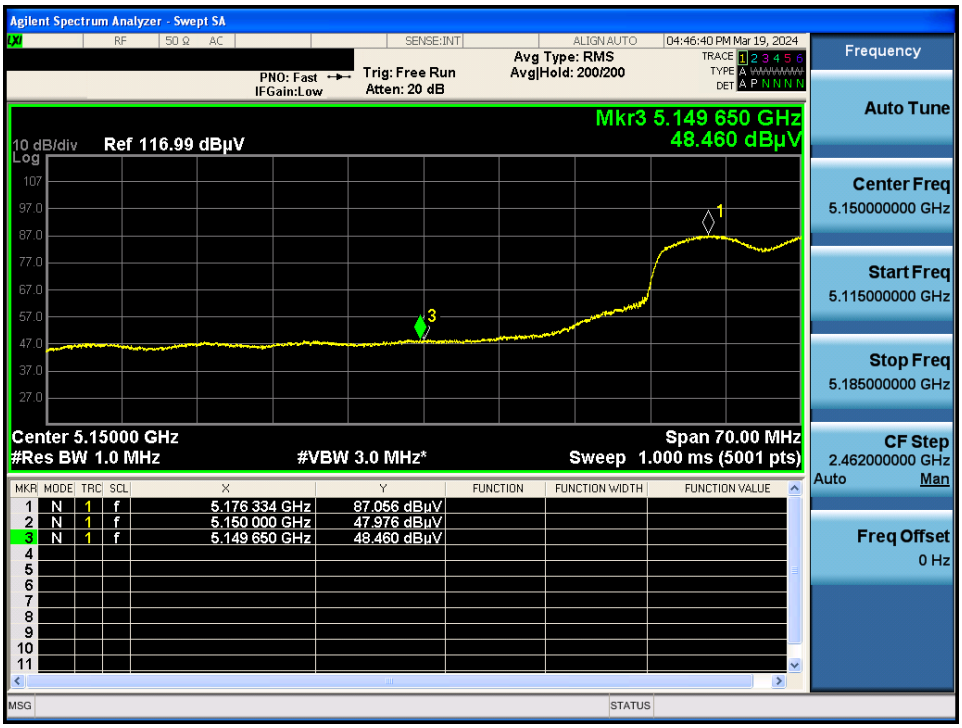
TM 4 & U-NII 3 & 5 775 & X axis & Ver **Detector Mode : AV**



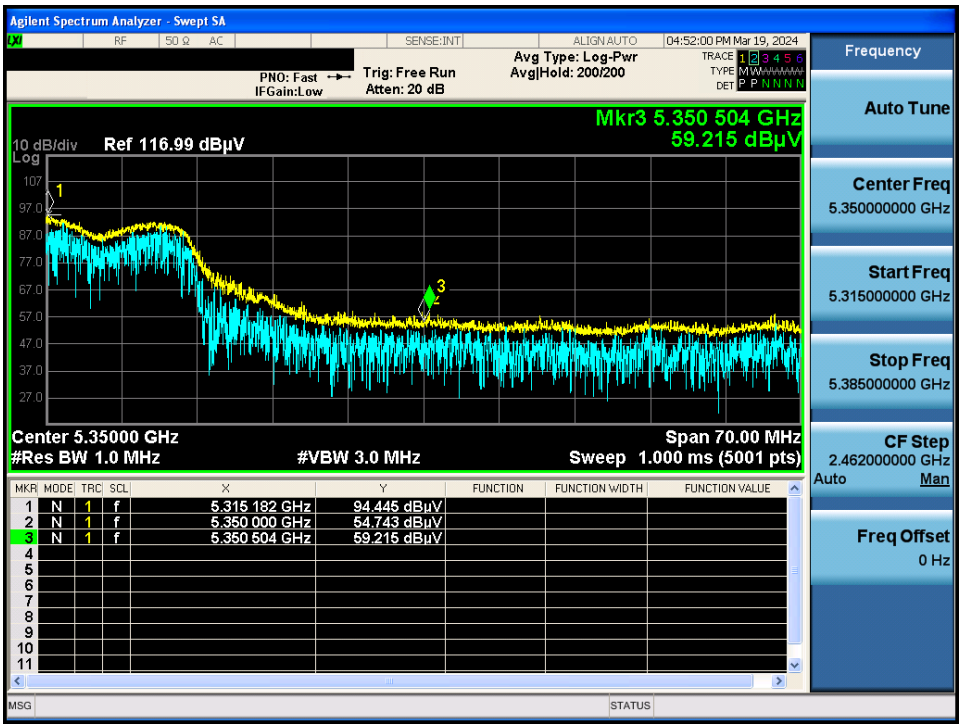
TM 5 & U-NII-1,2A & 5 250 & X axis & Hor **Detector Mode : PK**



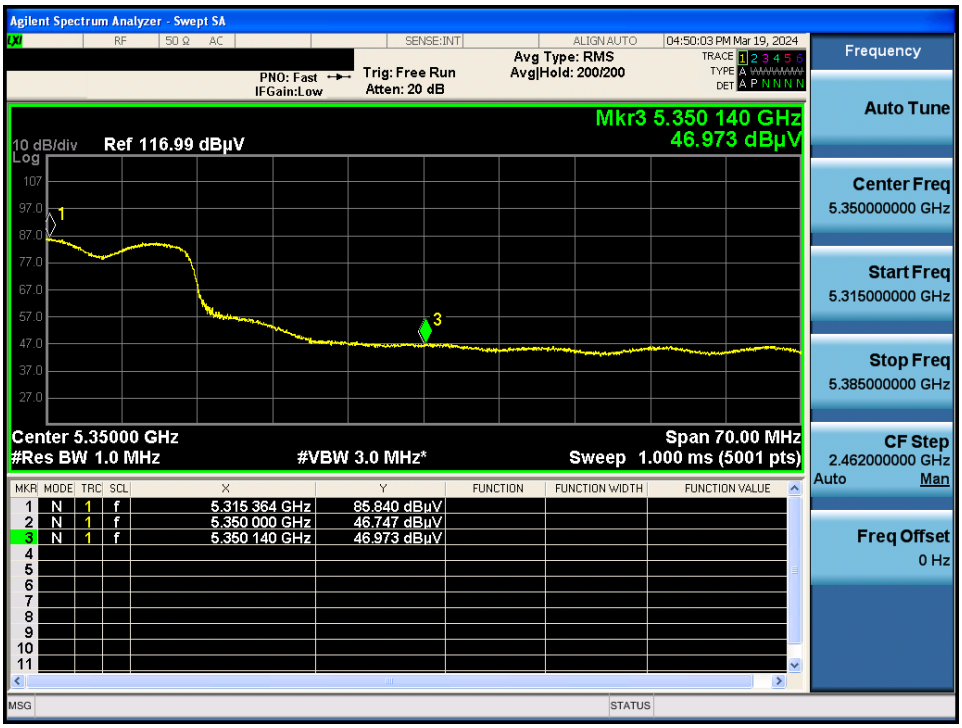
TM 5 & U-NII-1,2A & 5 250 & X axis & Hor **Detector Mode : AV**



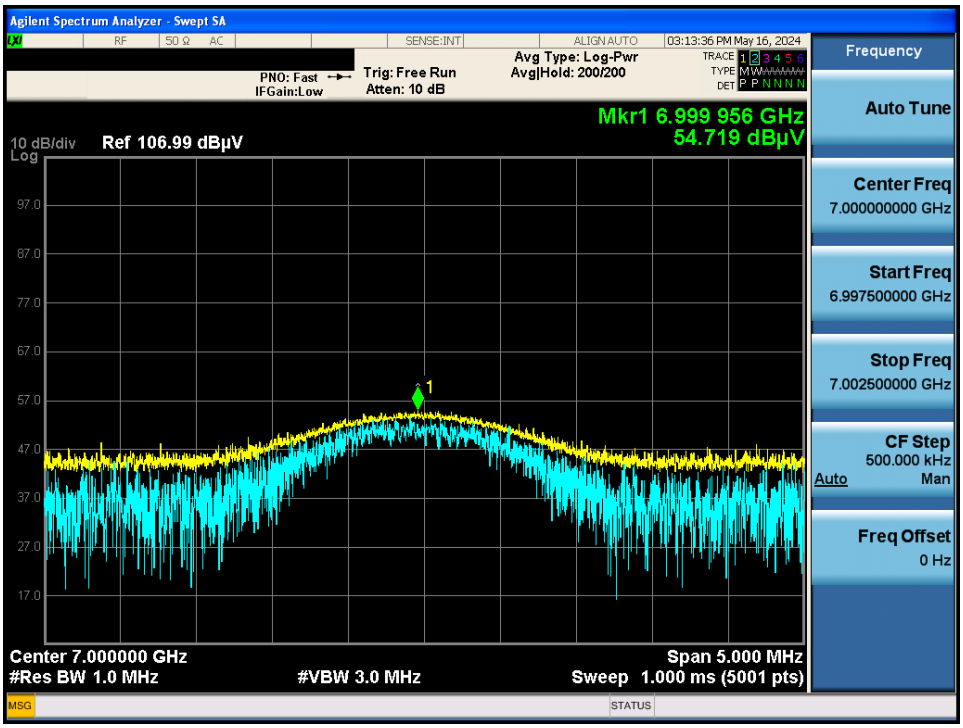
TM 5 & U-NII-1,2A & 5 250 & X axis & Hor **Detector Mode : PK**



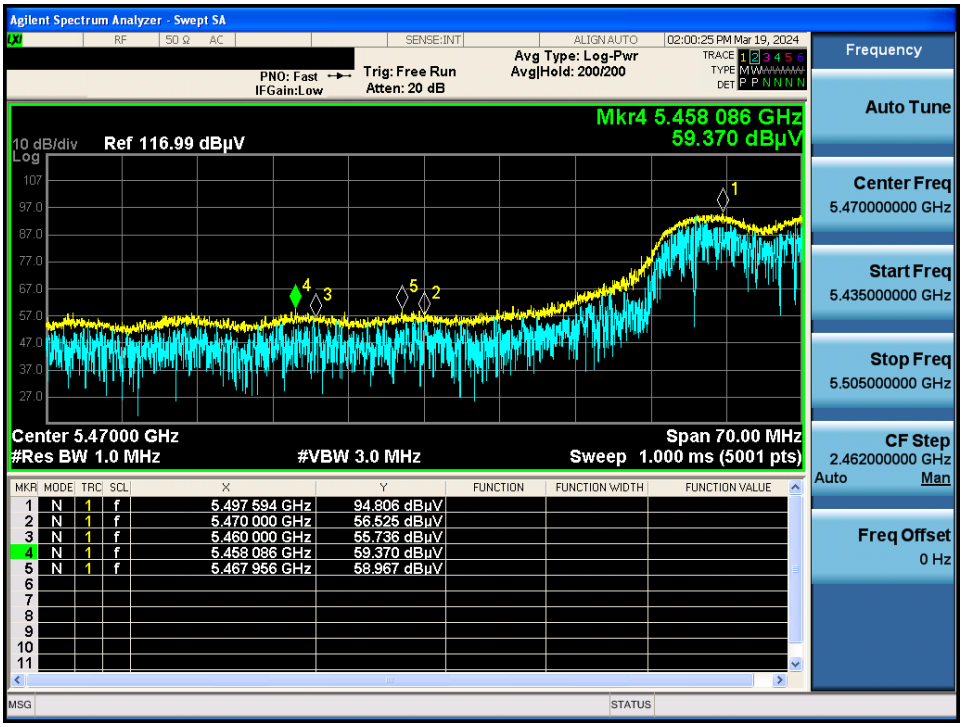
TM 5 & U-NII-1,2A & 5 250 & X axis & Hor **Detector Mode : AV**

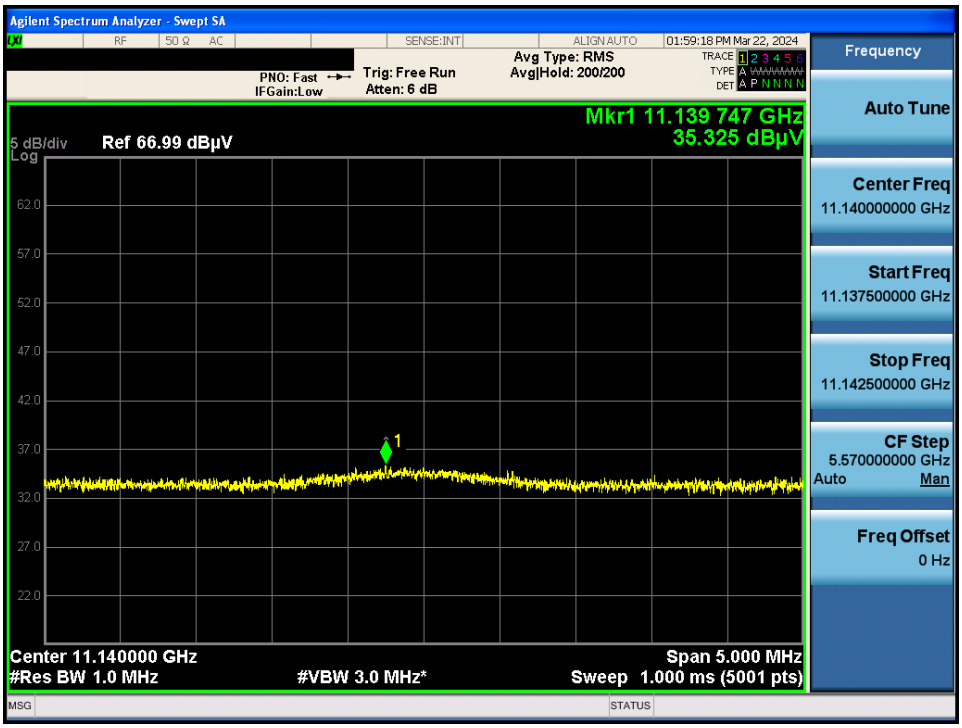


TM 5 & U-NII-1,2A & 5 250 & X axis & Hor **Detector Mode : PK**



TM 5 & U-NII-2C & 5 570 & X axis & Hor **Detector Mode : PK**



TM 5 & U-NII-2C & 5 570 & X axis & Hor **Detector Mode : AV**

TM 5 & U-NII-2C & 5 570 & X axis & Ver **Detector Mode : AV**