

### AC Power-Line Conducted Emissions (Data List)

Test Mode: U-NII 2C & TM 1 & 5 500 MHz

## Results of Conducted Emission

DTNC

Date 2023-04-28

Order No.		Reference No.	
Model No.	Z7 Main Unit	Power Supply	
Serial No.		Temp/Humi.	21 'C / 43 %
Test Condition	WLAN 5.5G	Operator	S.M.Gil
Memo	802.11a_5500		

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

NO	FREQ [MHz]	READING		C.FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	CAV [dBuV]		QP [dBuV]	CAV [dBuV]	QP [dBuV]	CAV [dBuV]	QP [dBuV]	CAV [dBuV]	
1	0.15344	33.71	18.03	10.01	43.72	28.04	65.81	55.81	22.09	27.77	N
2	0.42638	31.64	25.64	10.00	41.64	35.64	57.32	47.32	15.68	11.68	N
3	1.04980	29.60	18.70	10.01	39.61	28.71	56.00	46.00	16.39	17.29	N
4	1.00960	29.62	18.11	10.01	39.63	28.12	56.00	46.00	16.37	17.88	N
5	6.83420	14.12	8.55	10.24	24.36	18.79	60.00	50.00	35.64	31.21	N
6	18.37800	13.31	7.82	10.55	23.86	18.37	60.00	50.00	36.14	31.63	N
7	0.15427	33.47	17.78	9.91	43.38	27.69	65.77	55.77	22.39	28.08	L
8	0.42290	33.44	21.89	9.89	43.33	31.78	57.39	47.39	14.06	15.61	L
9	0.82462	27.82	16.12	9.90	37.72	26.02	56.00	46.00	18.28	19.98	L
10	1.83540	27.07	16.12	10.04	37.11	26.16	56.00	46.00	18.89	19.84	L
11	5.14060	18.46	7.12	10.10	28.56	17.22	60.00	50.00	31.44	32.78	L
12	17.42320	18.55	6.09	10.36	28.91	16.45	60.00	50.00	31.09	33.55	L

AC Power-Line Conducted Emissions (Graph)

Test Mode: U-NII 3 & TM 1 & 5 745 MHz

Results of Conducted Emission

DTNC

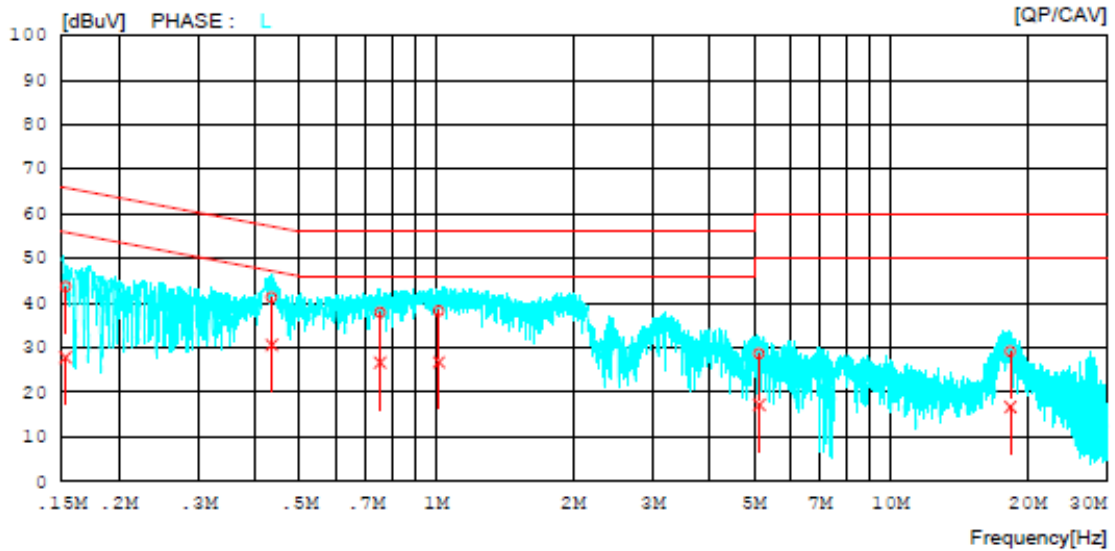
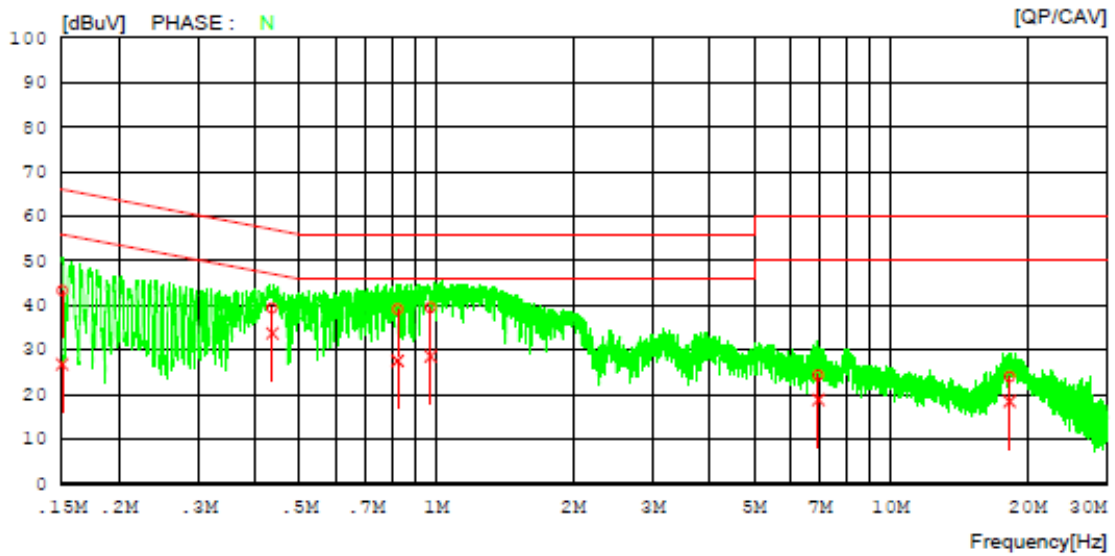
Date 2023-04-28

Order No.  
Model No. Z7 Main Unit  
Serial No.  
Test Condition WLAN 5.7G

Reference No.  
Power Supply  
Temp/Humi. 21 °C / 43 %  
Operator S.M.Gil

Memo 802.11a\_5745

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



### AC Power-Line Conducted Emissions (Data List)

Test Mode: U-NII 3 & TM 1 & 5 745 MHz

### Results of Conducted Emission

DTNC

Date 2023-04-28

Order No.		Reference No.	
Model No.	Z7 Main Unit	Power Supply	
Serial No.		Temp/Humi.	21 'C / 43 %
Test Condition	WLAN 5.7G	Operator	S.M.Gil
Memo	802.11a_5745		

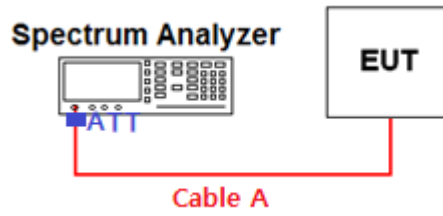
LIMIT : FCC P15.207 AV  
FCC P15.207 QP

NO	FREQ [MHz]	READING		C.FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	CAV [dBuV]		QP [dBuV]	CAV [dBuV]	QP [dBuV]	CAV [dBuV]			
1	0.15025	33.33	16.85	10.01	43.34	26.86	65.99	55.99	22.65	29.13	N
2	0.43566	29.45	23.77	10.00	39.45	33.77	57.14	47.14	17.69	13.37	N
3	0.82221	29.11	17.57	10.00	39.11	27.57	56.00	46.00	16.89	18.43	N
4	0.97120	29.47	18.59	10.01	39.48	28.60	56.00	46.00	16.52	17.40	N
5	6.93360	14.15	8.61	10.24	24.39	18.85	60.00	50.00	35.61	31.15	N
6	18.29440	13.49	7.94	10.55	24.04	18.49	60.00	50.00	35.96	31.51	N
7	0.15288	33.75	17.85	9.91	43.66	27.76	65.84	55.84	22.18	28.08	L
8	0.43412	31.29	20.69	9.90	41.19	30.59	57.17	47.17	15.98	16.58	L
9	0.75292	27.90	16.72	9.89	37.79	26.61	56.00	46.00	18.21	19.39	L
10	1.01340	28.16	16.70	10.01	38.17	26.71	56.00	46.00	17.83	19.29	L
11	5.13840	18.50	7.10	10.10	28.60	17.20	60.00	50.00	31.40	32.80	L
12	18.34840	18.80	6.36	10.35	29.15	16.71	60.00	50.00	30.85	33.29	L

## 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**

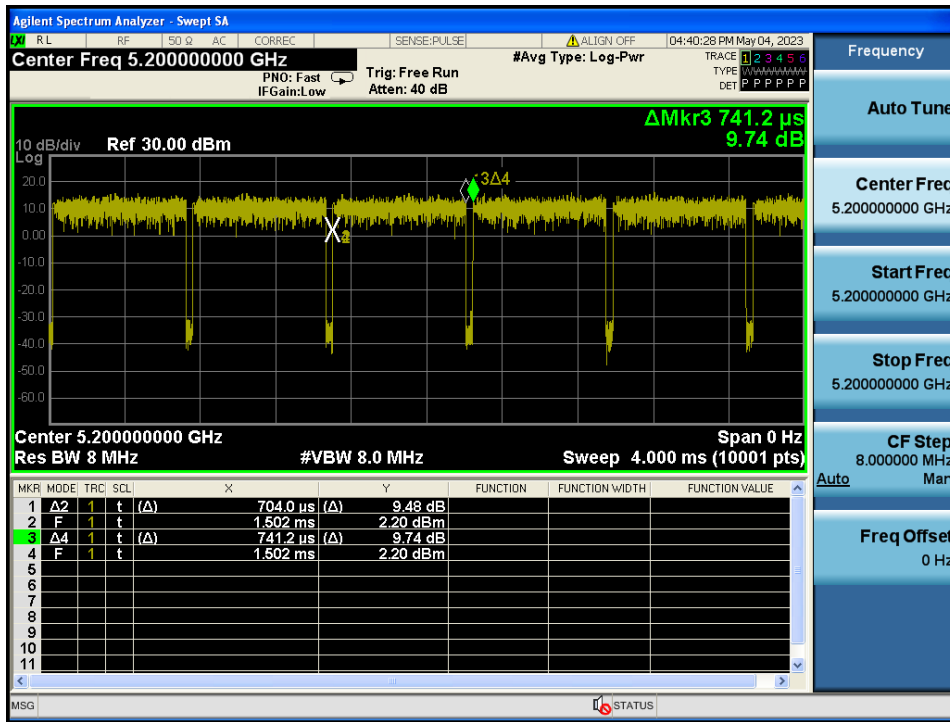
1. Set the center frequency of the spectrum analyzer to the center frequency of the transmission.
2. Set RBW  $\geq$  EBW if possible; otherwise, set RBW to the largest available value.
3. Set VBW  $\geq$  RBW. Set detector = peak.
4. Note : The zero-span measurement method shall not be used unless both **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  $T \leq 16.7$  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)

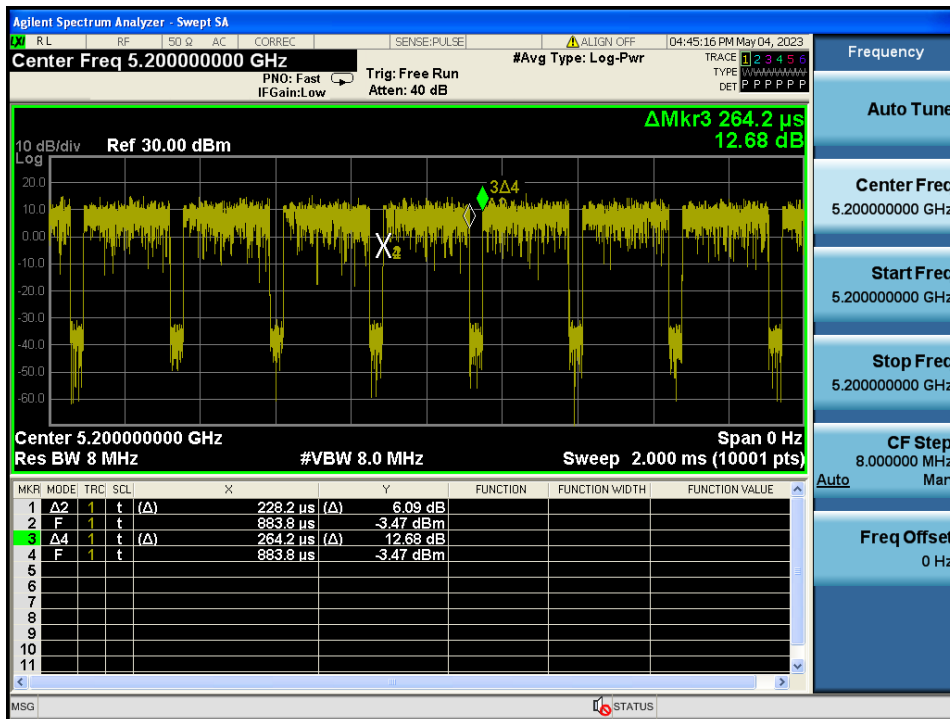
Duty Cycle

Test Mode: TM1 & Ch.36



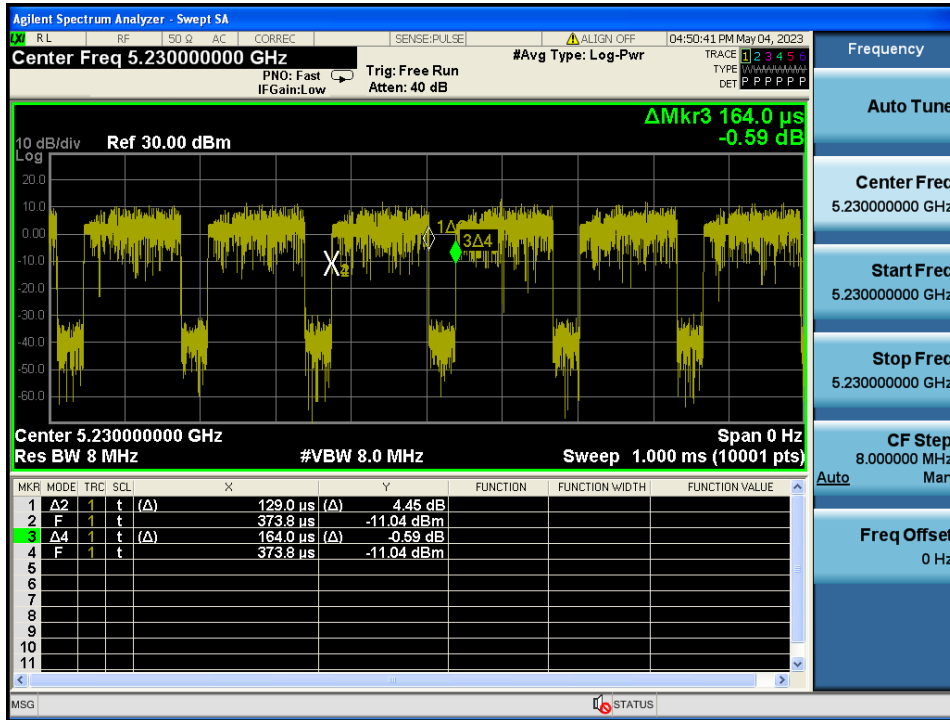
Duty Cycle

Test Mode: TM 2 & Ch.36



Duty Cycle

Test Mode: TM 3 & Ch.38

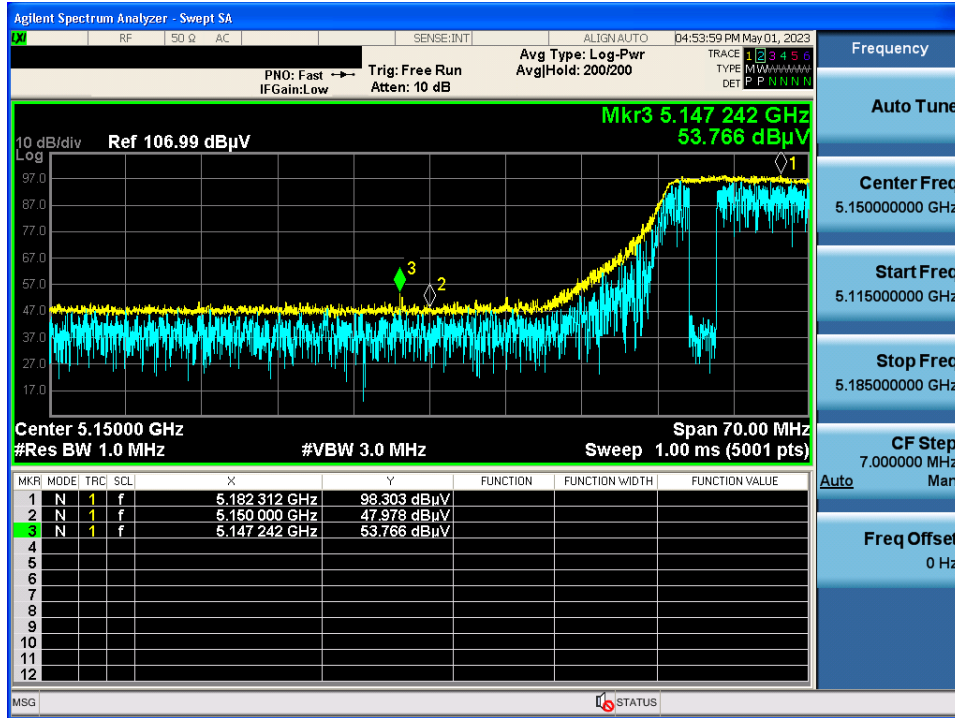


APPENDIX III

Unwanted Emissions (Radiated) Test Plot:

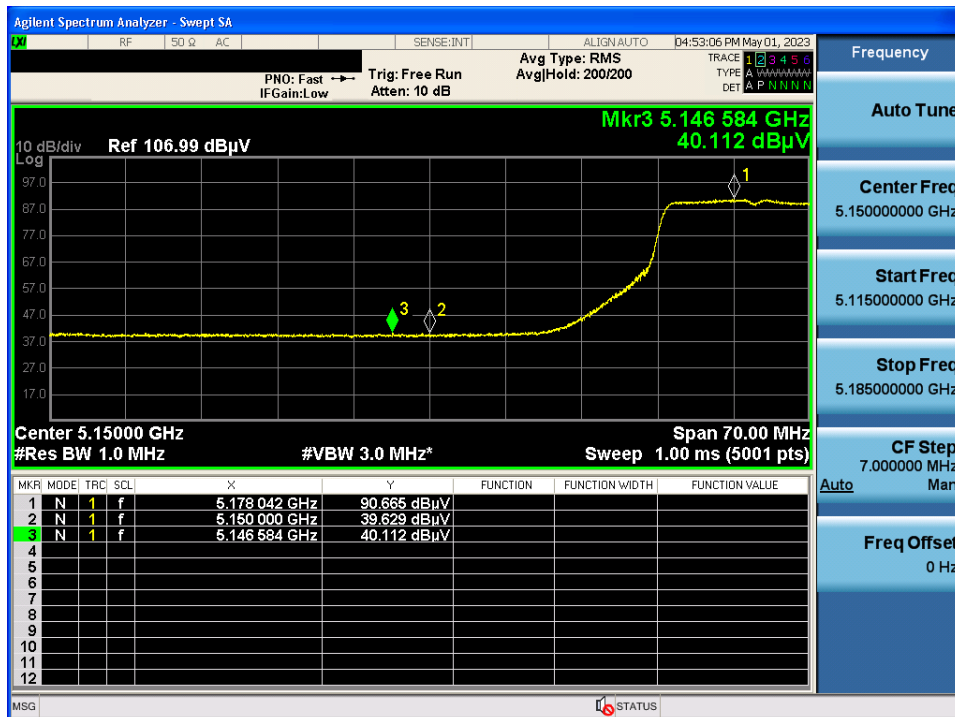
TM 1 & U-NII 1 & 5 180 & Y axis & Ver

Detector Mode : PK



TM 1 & U-NII 1 & 5 180 & Y axis & Ver

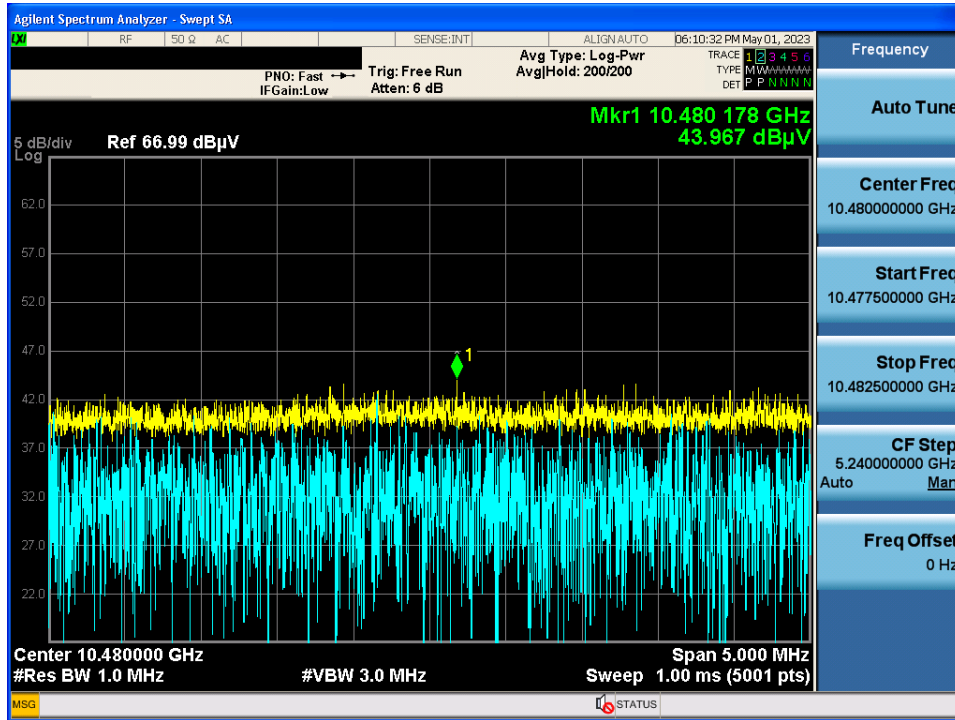
Detector Mode : AV





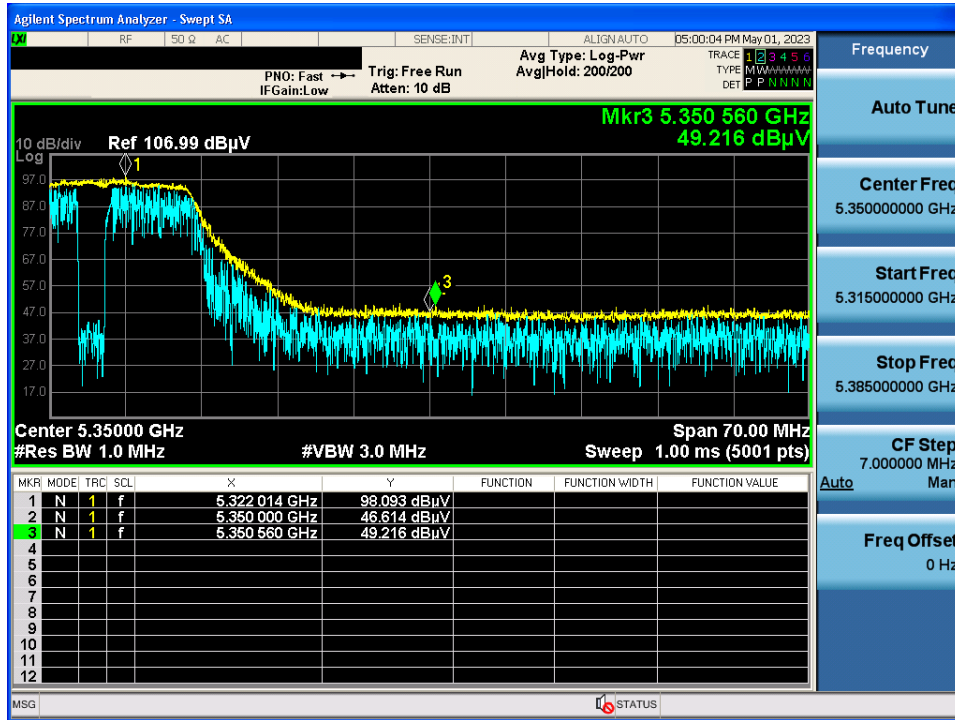
TM 1 & U-NII 1 & 5 240 & Y axis & Ver

Detector Mode : PK



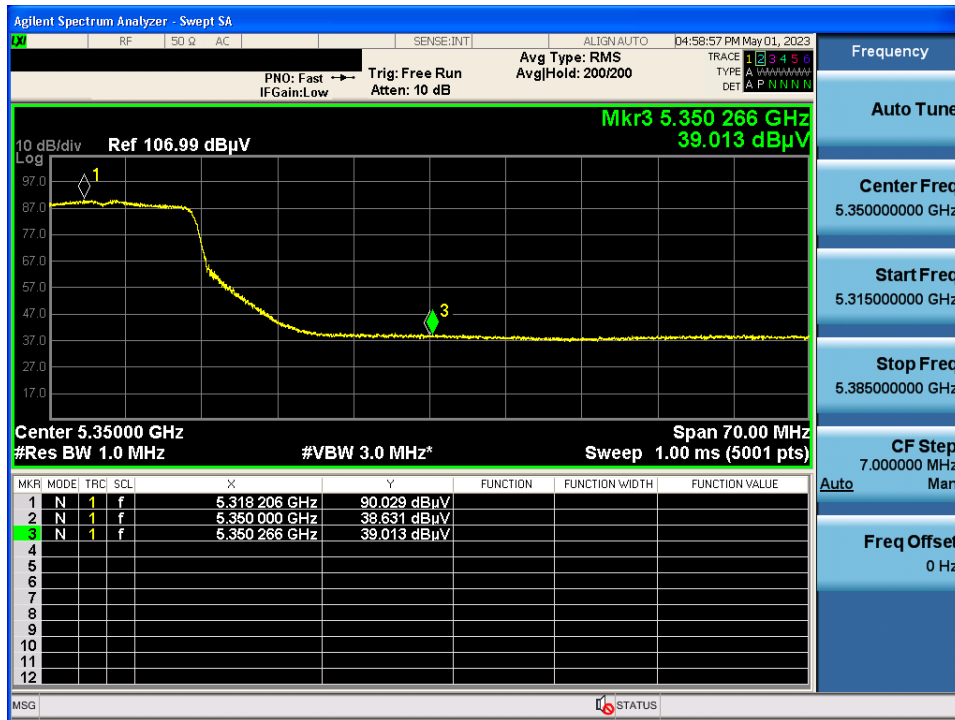
TM 1 & U-NII 2A & 5 320 & Y axis & Ver

Detector Mode : PK



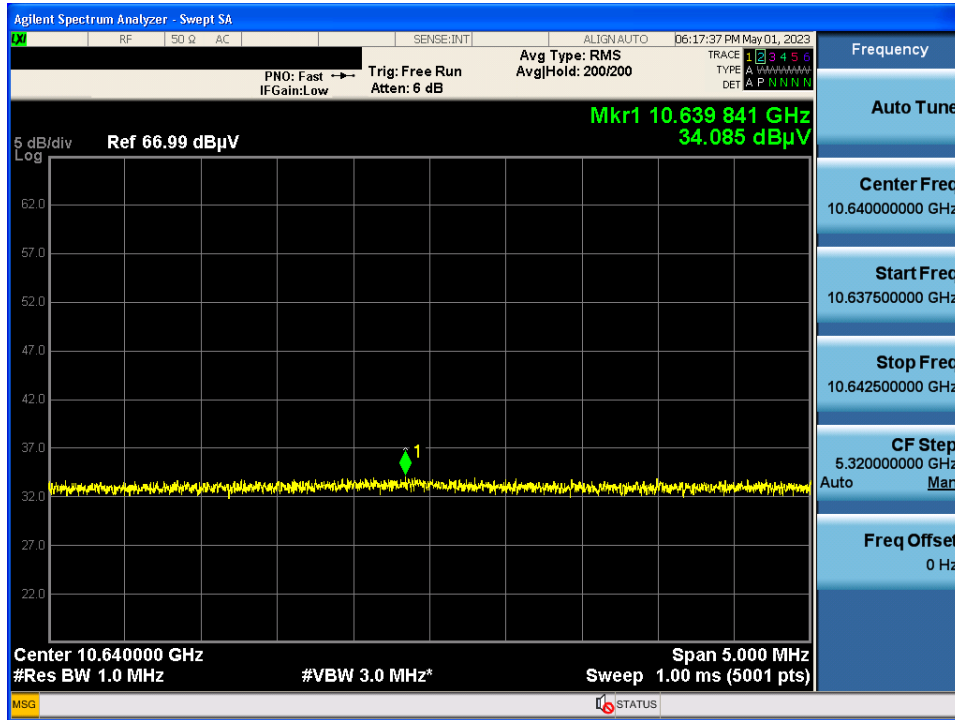
TM 1 & U-NII 2A & 5 320 & Y axis & Ver

Detector Mode : AV



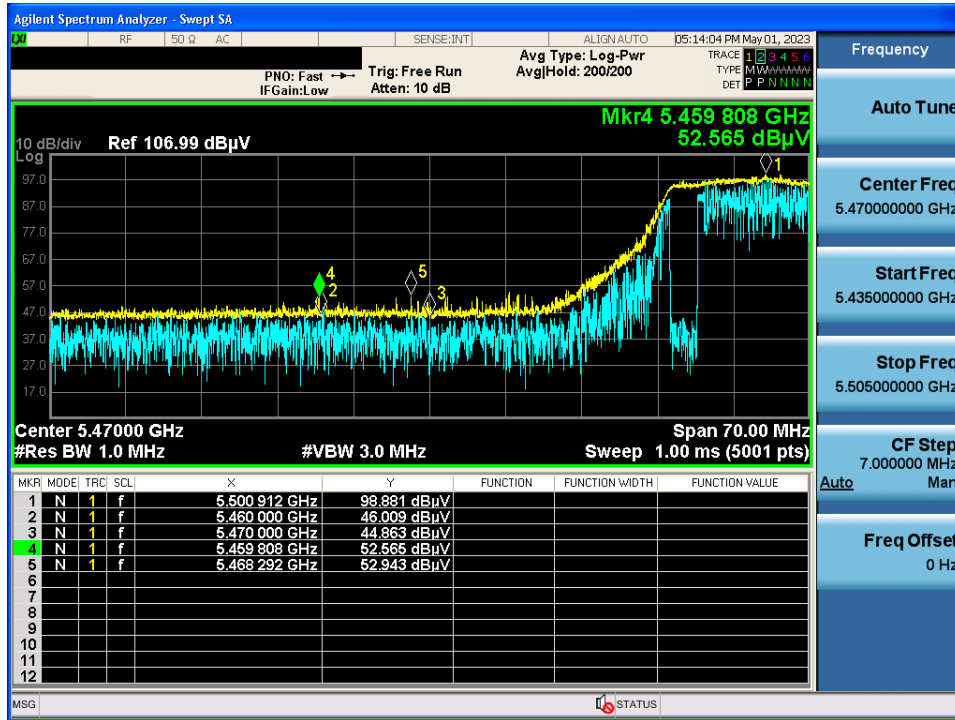
TM 1 & U-NII 2A & 5 320 & Y axis & Ver

Detector Mode : AV



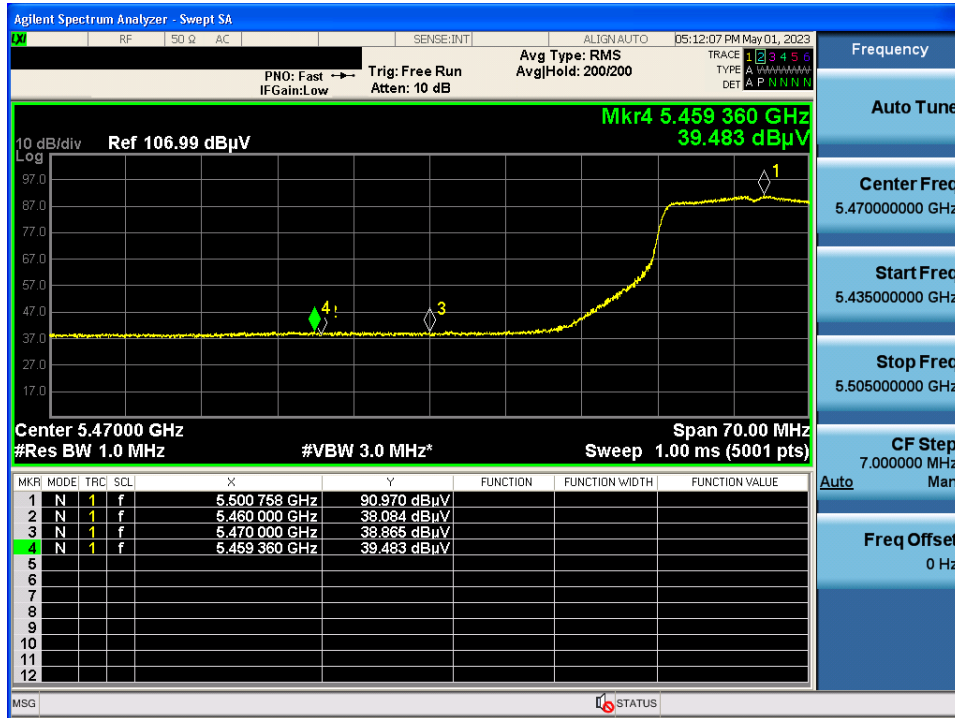
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Detector Mode : PK



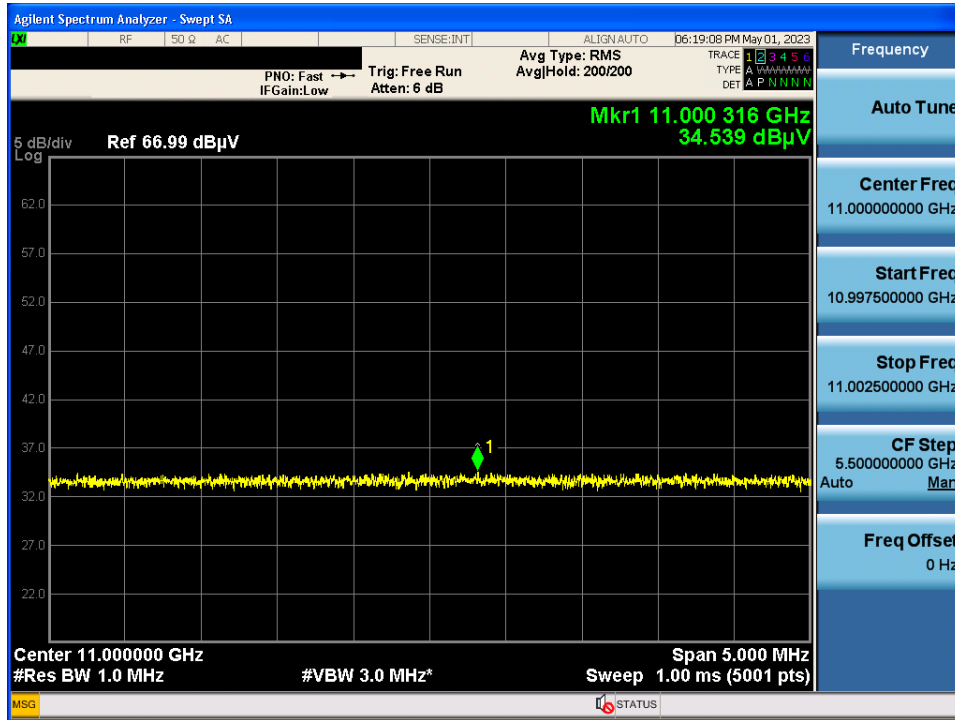
TM 1 & U-NII 2C & 5 500 & Y axis & Ver

Detector Mode : AV



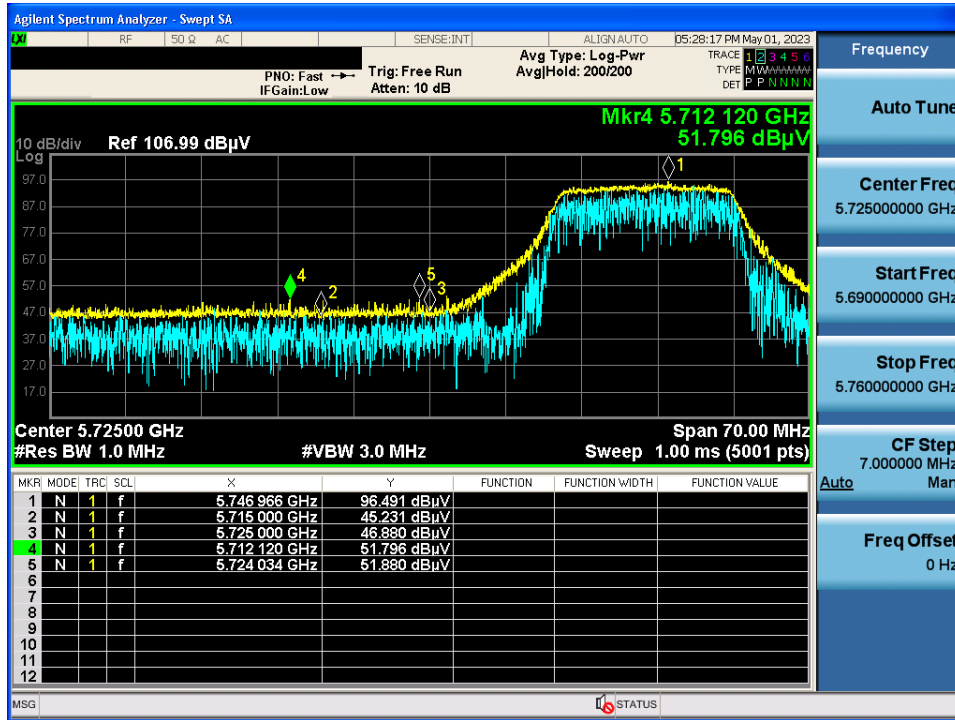
TM 1 & U-NII 2C & 5 500 & Y axis & Ver

Detector Mode : AV



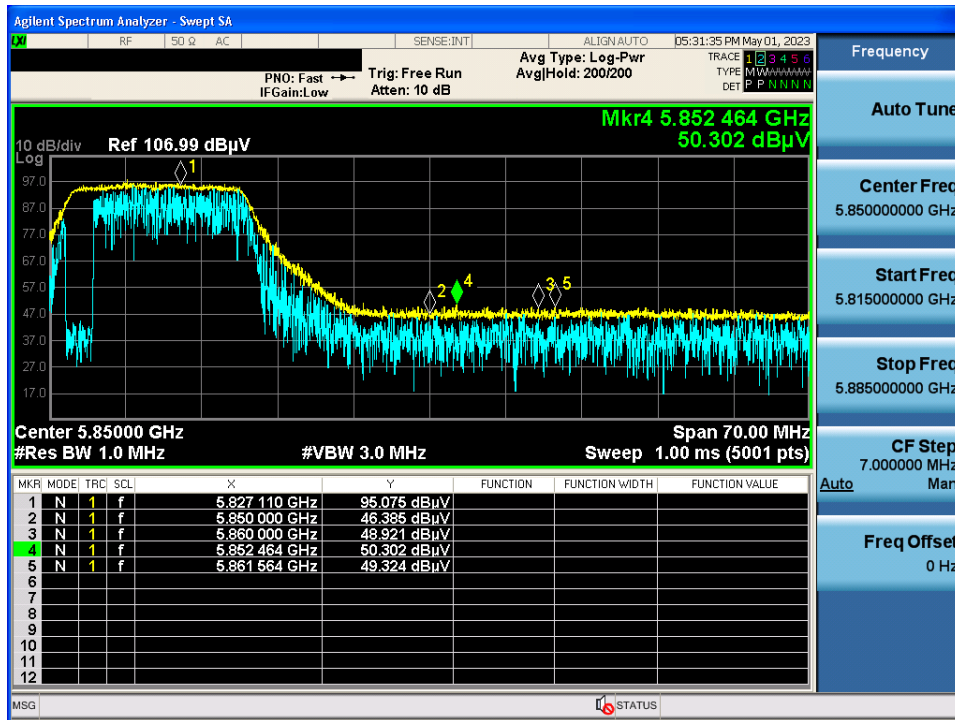
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Detector Mode : PK



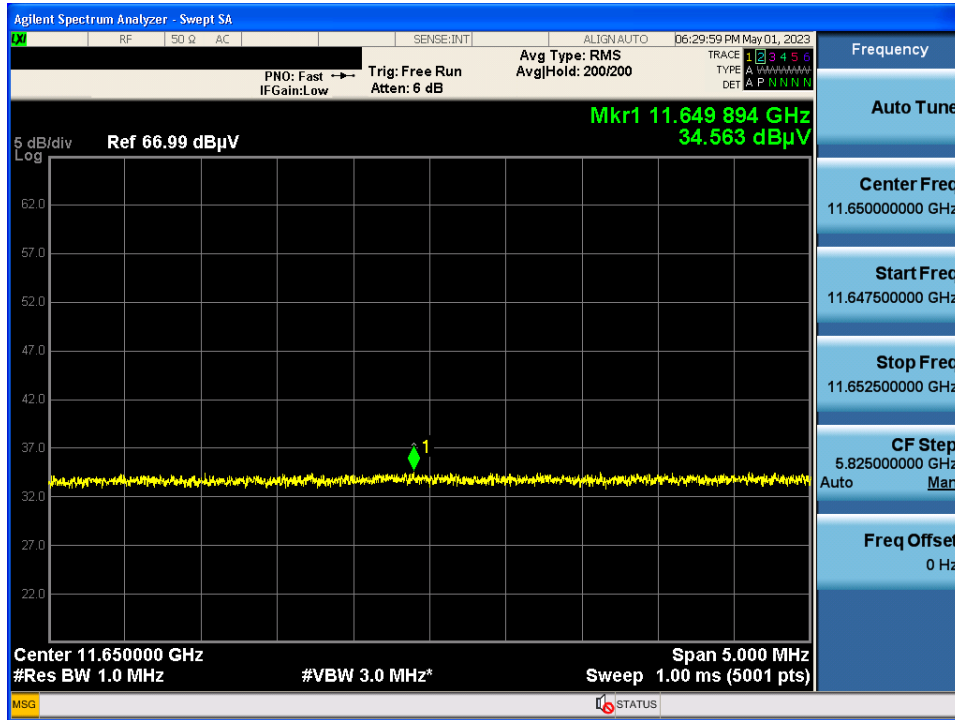
TM 1 & U-NII 3 & 5 825 & Y axis & Ver

Detector Mode : PK



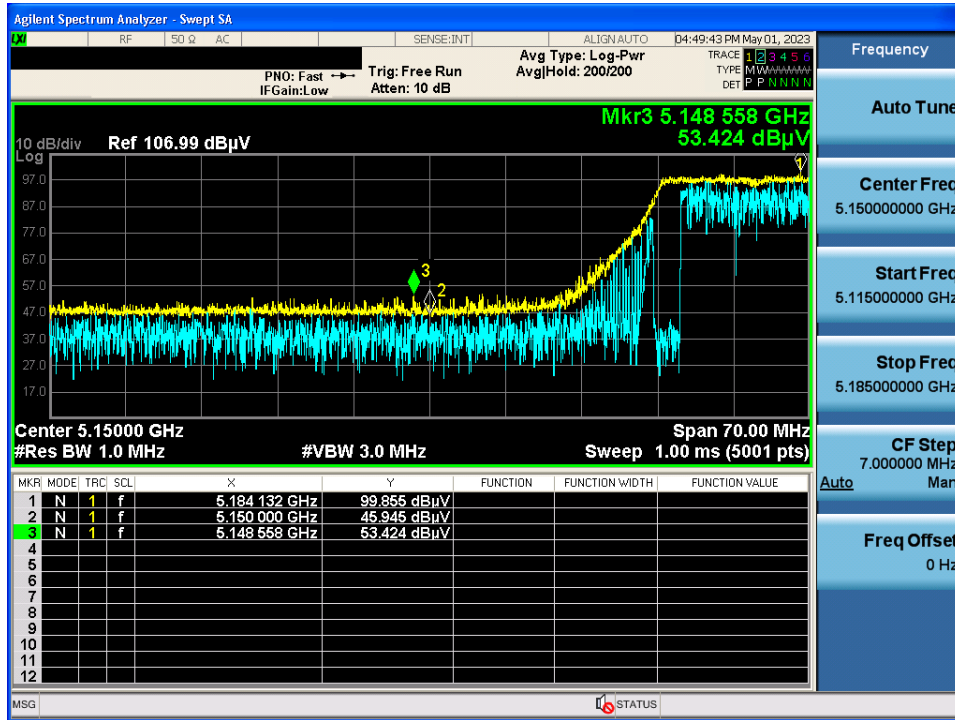
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Detector Mode : AV



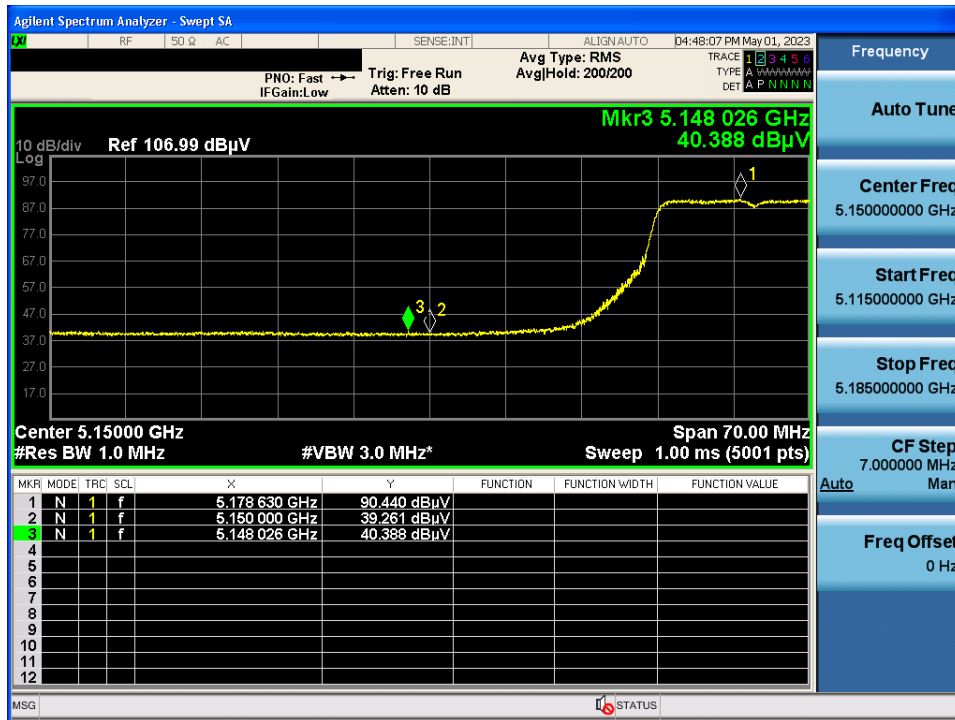
TM 2 & U-NII 1 & 5 180 & Y axis & Ver

Detector Mode : PK



TM 2 & U-NII 1 & 5 180 & Y axis & Ver

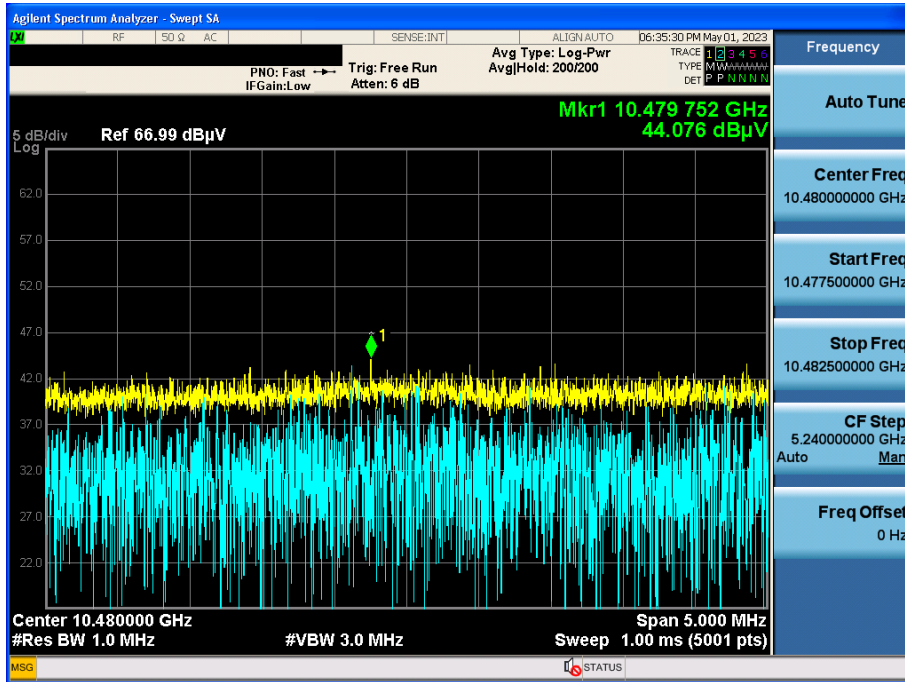
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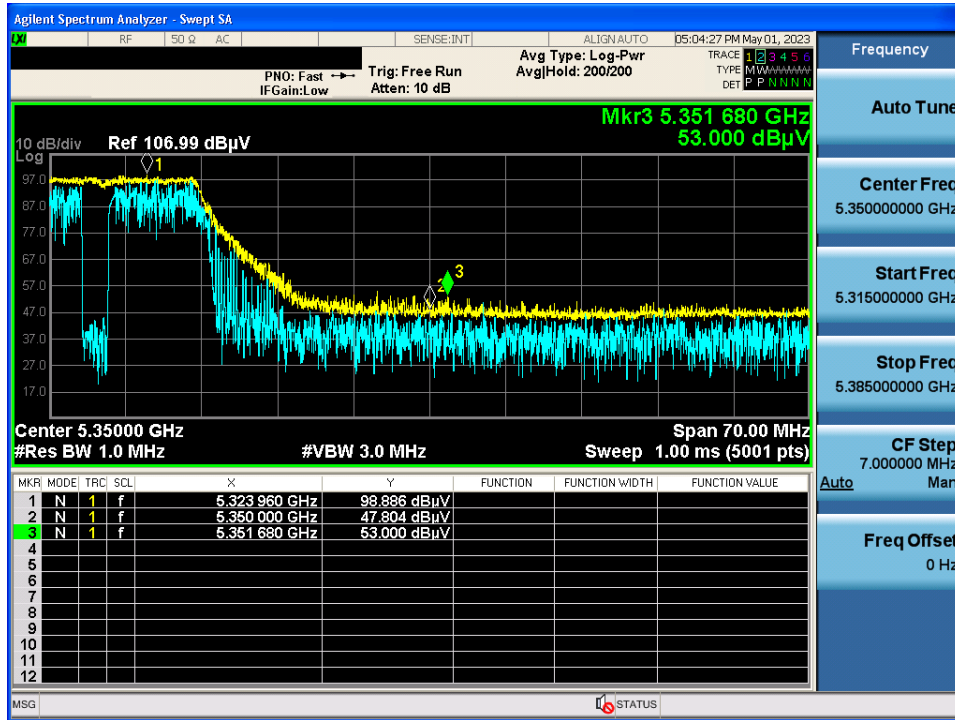
TM 2 & U-NII 1 & 5 240 & Y axis & Ver

Detector Mode : PK



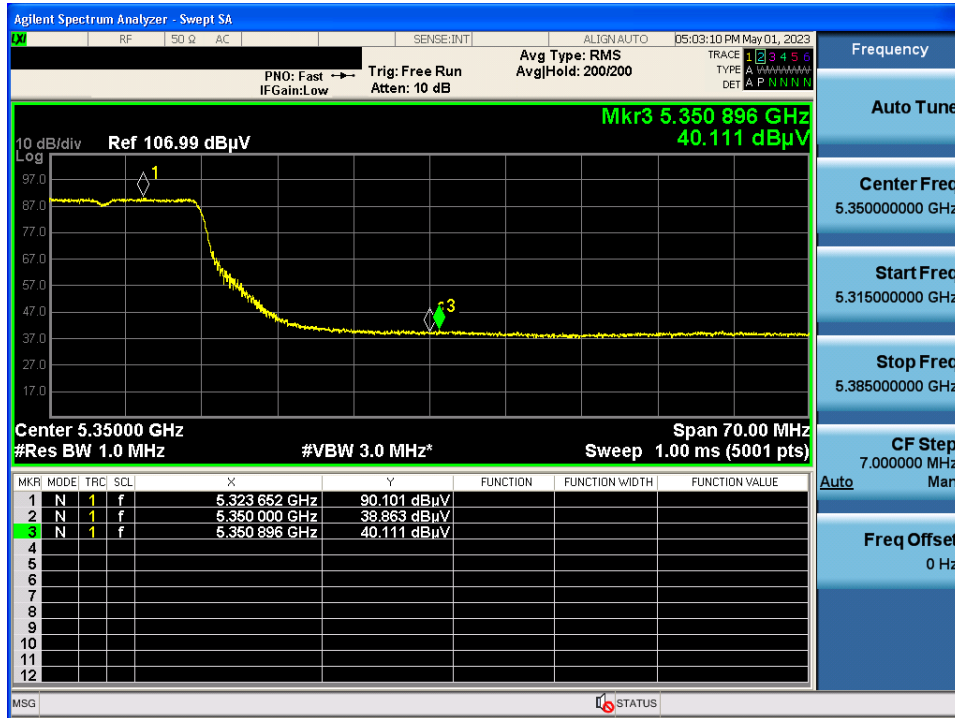
TM 2 & U-NII 2A & 5 320 & Y axis & Ver

Detector Mode : PK



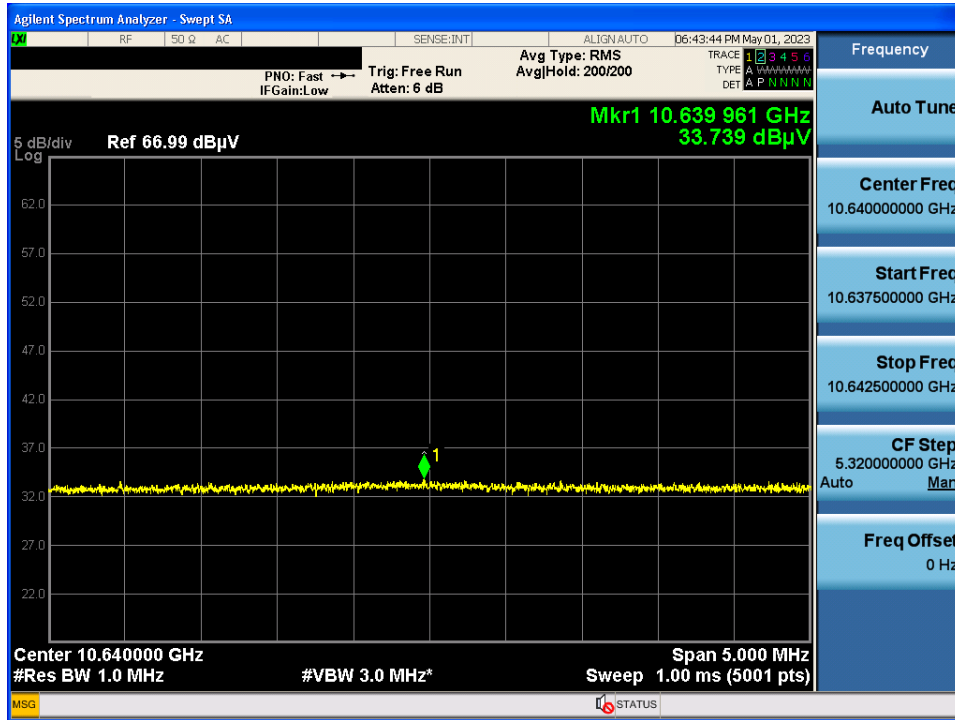
TM 2 & U-NII 2A & 5 320 & Y axis & Ver

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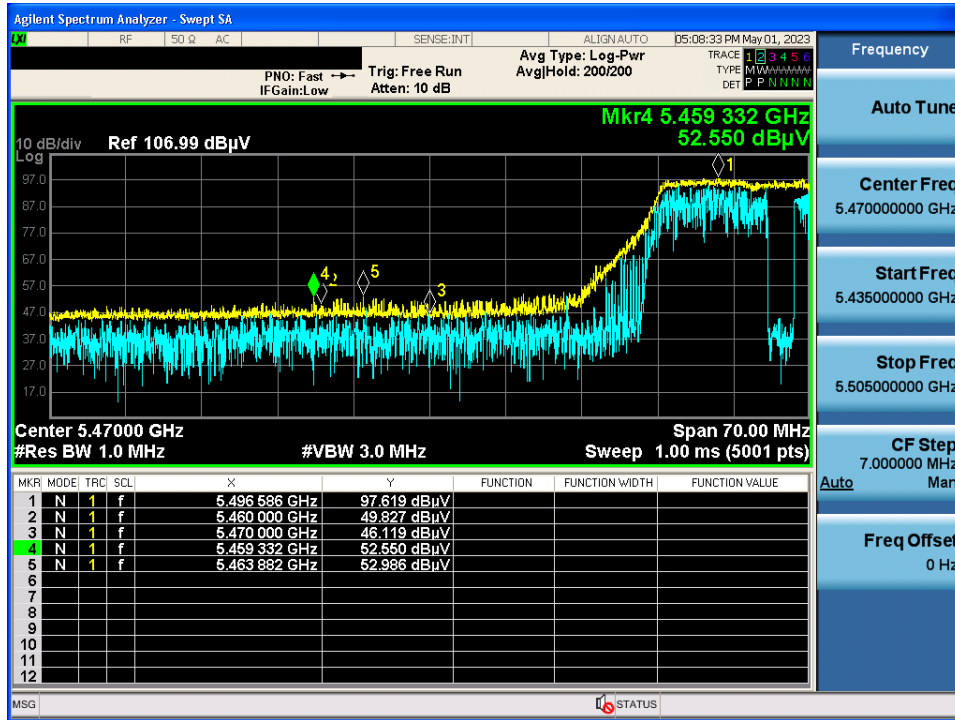
TM 2 & U-NII 2A & 5 320 & Y axis & Ver

Detector Mode : AV



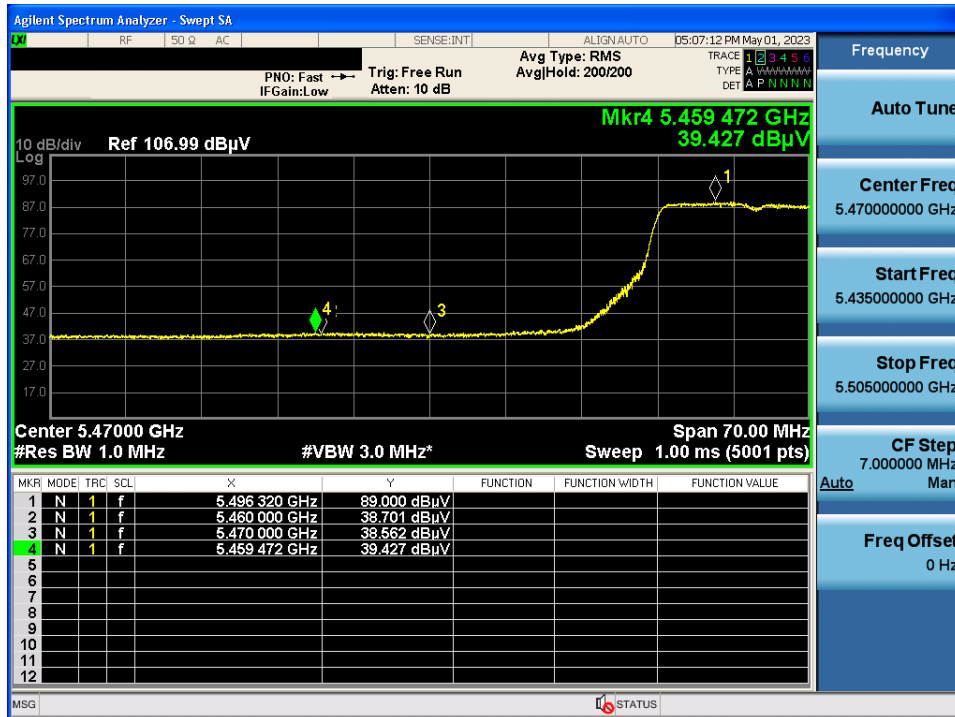
TM 2 & U-NII 2C & 5 500 & Y axis & Ver

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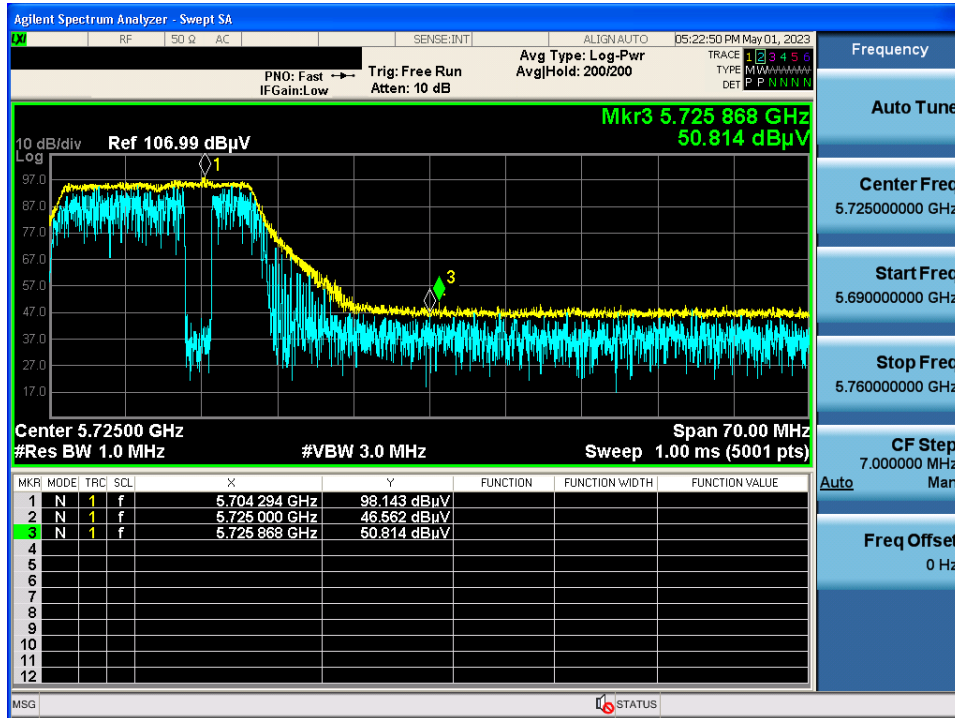
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Detector Mode : AV



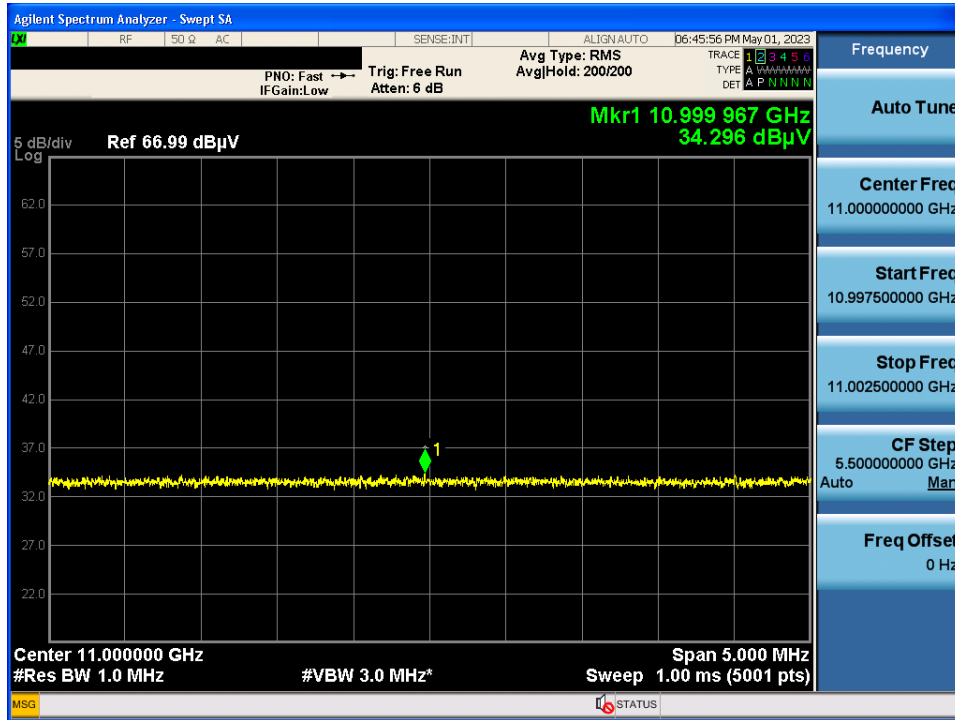
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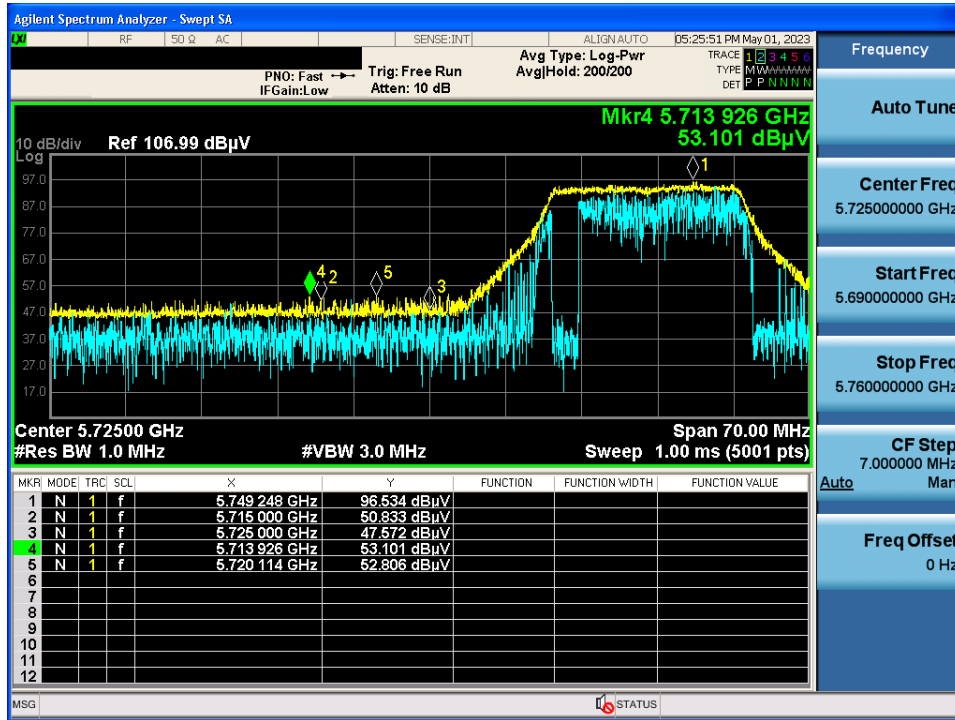
TM 2 & U-NII 2C & 5 500 & Y axis & Ver

Detector Mode : AV



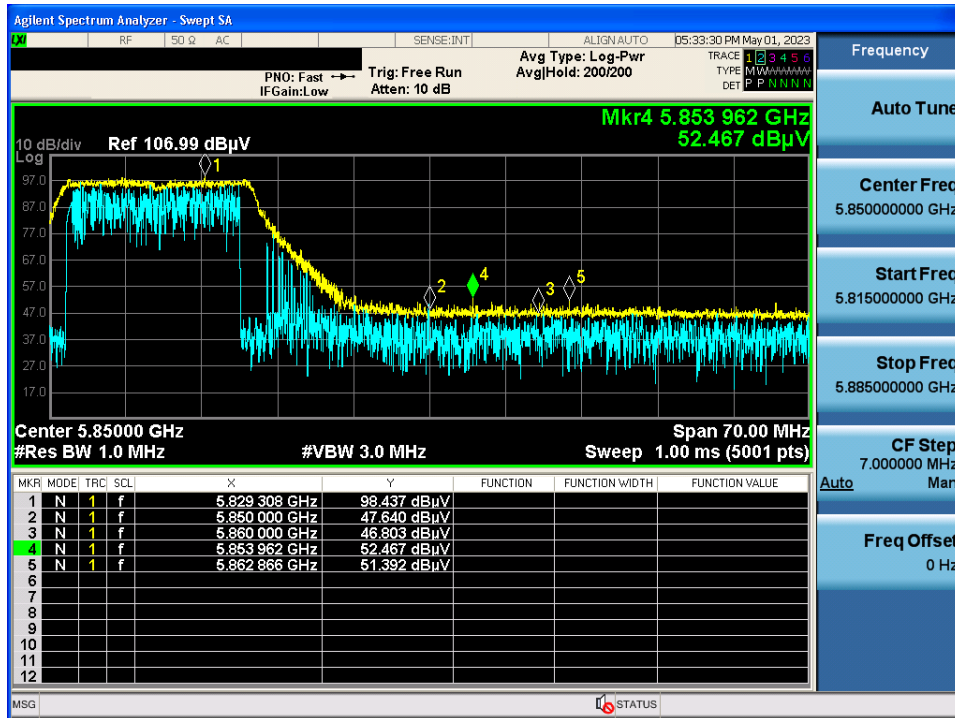
TM 2 & U-NII 3 & 5 745 & Y axis & Ver

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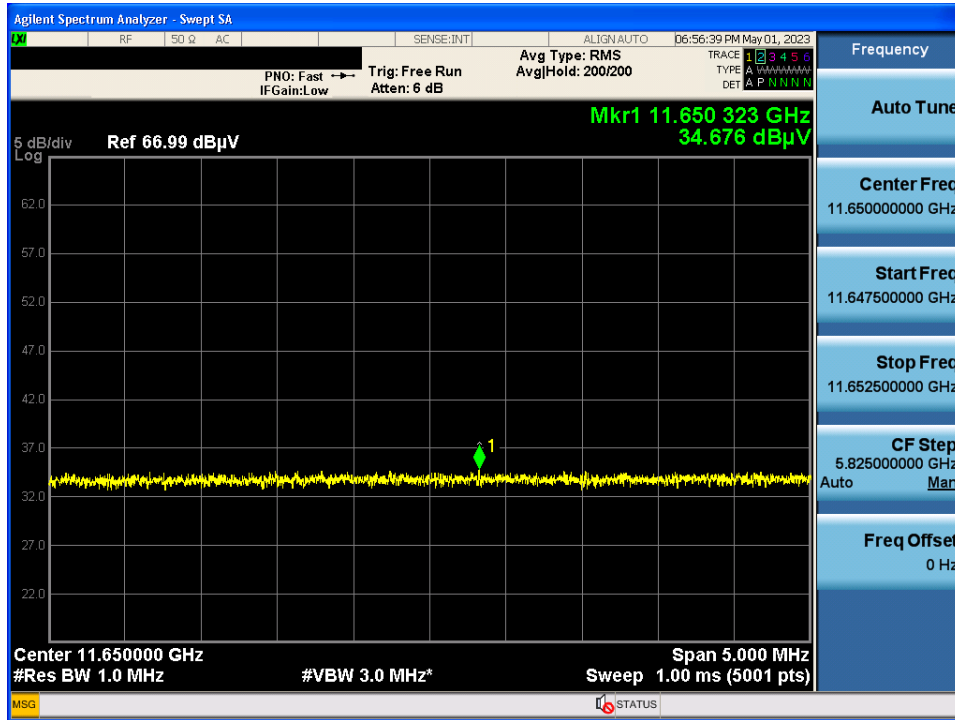
TM 2 & U-NII 3 & 5 825 & Y axis & Ver

Detector Mode : PK



TM 2 & U-NII 3 & 5 825 & Y axis & Ver

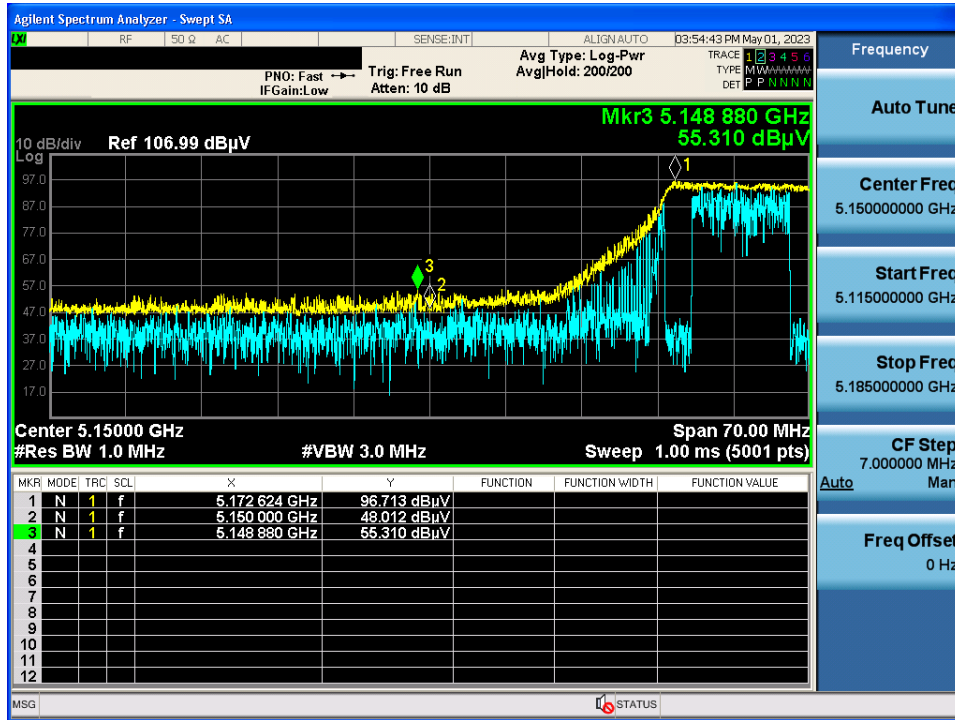
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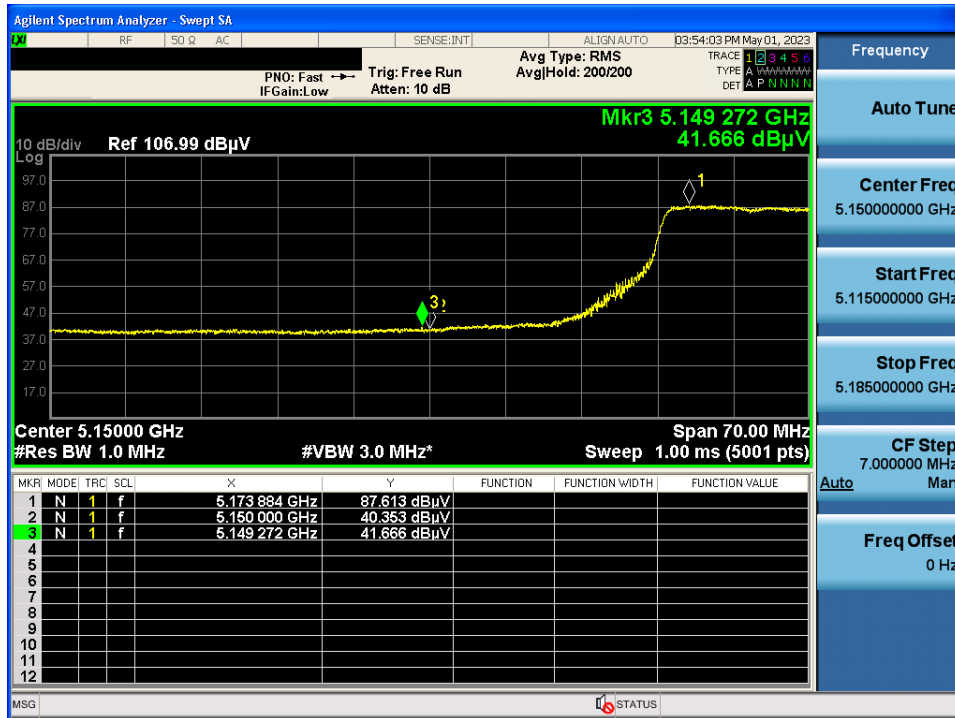
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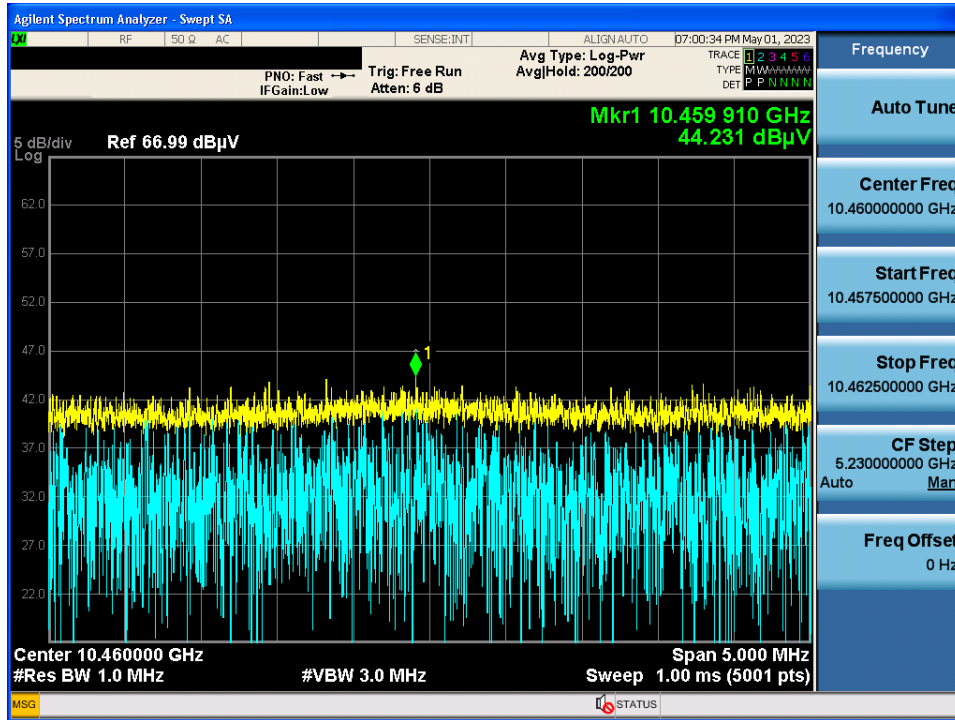
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Detector Mode : AV



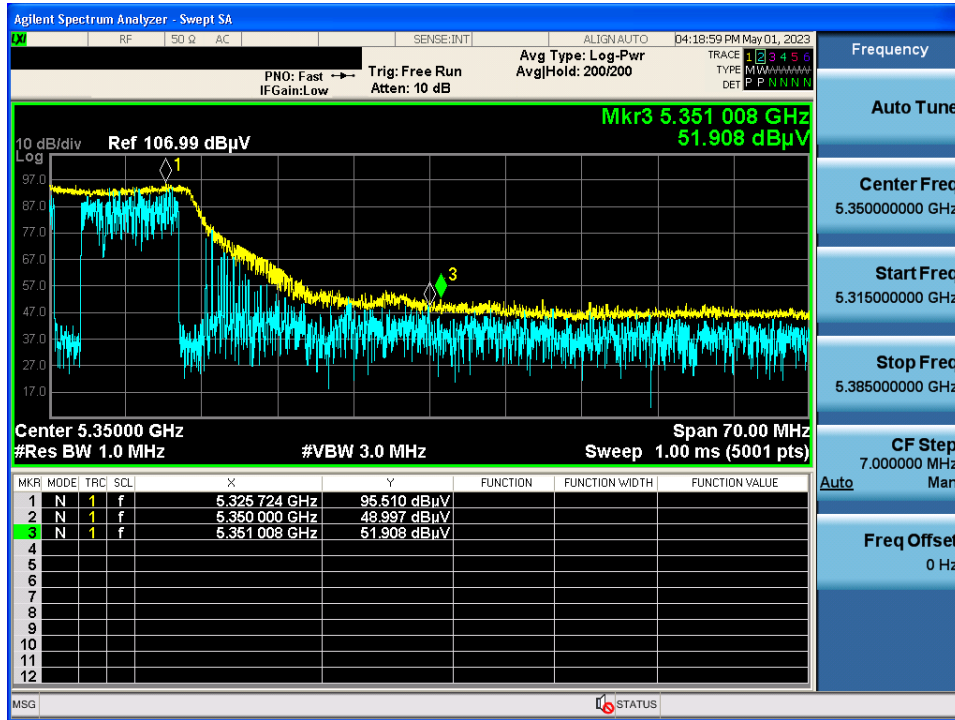
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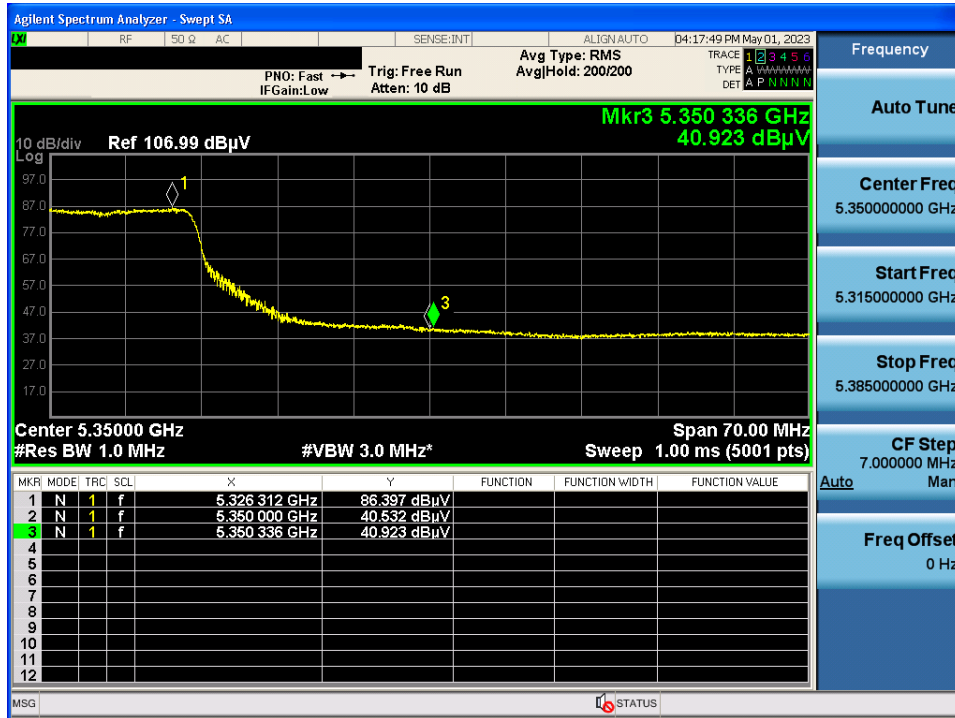
TM 3 & U-NII 2A & 5 310 & Y axis & Ver

Detector Mode : PK



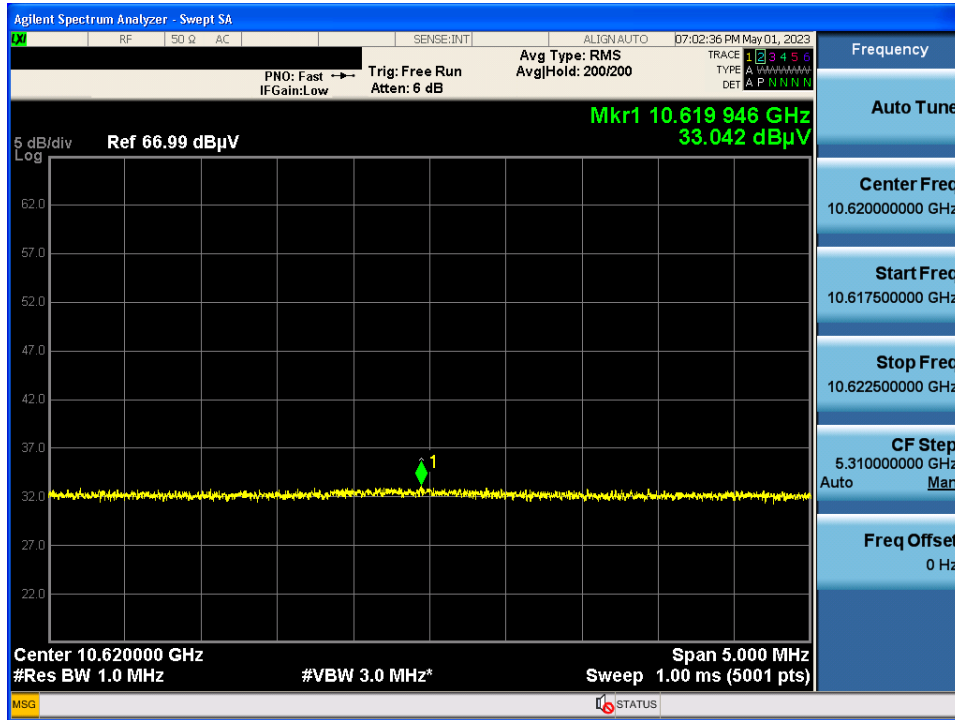
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Detector Mode : AV



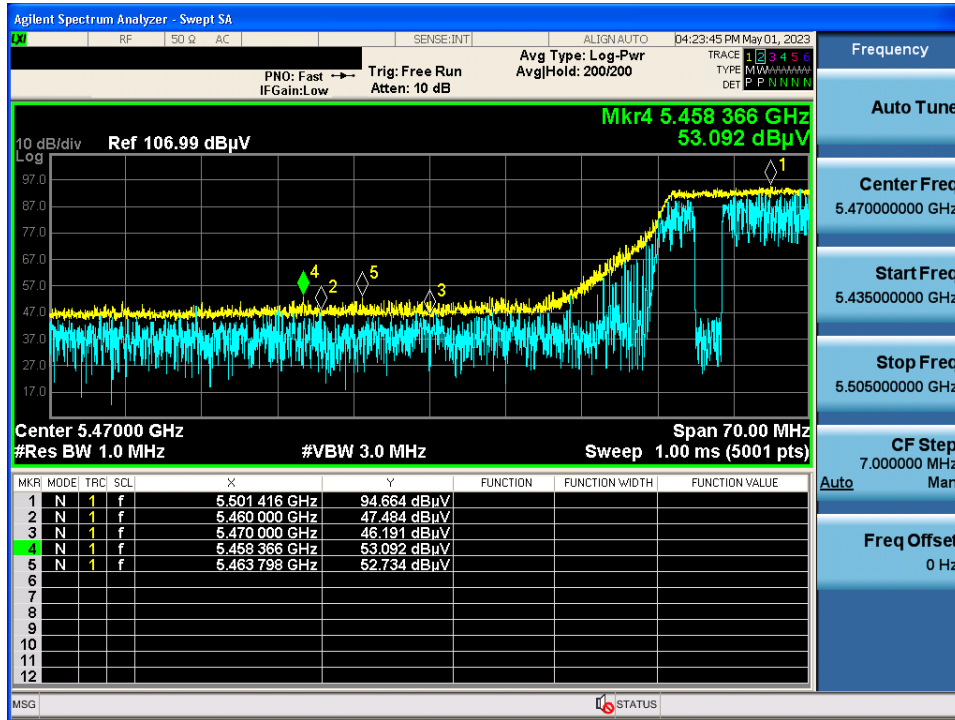
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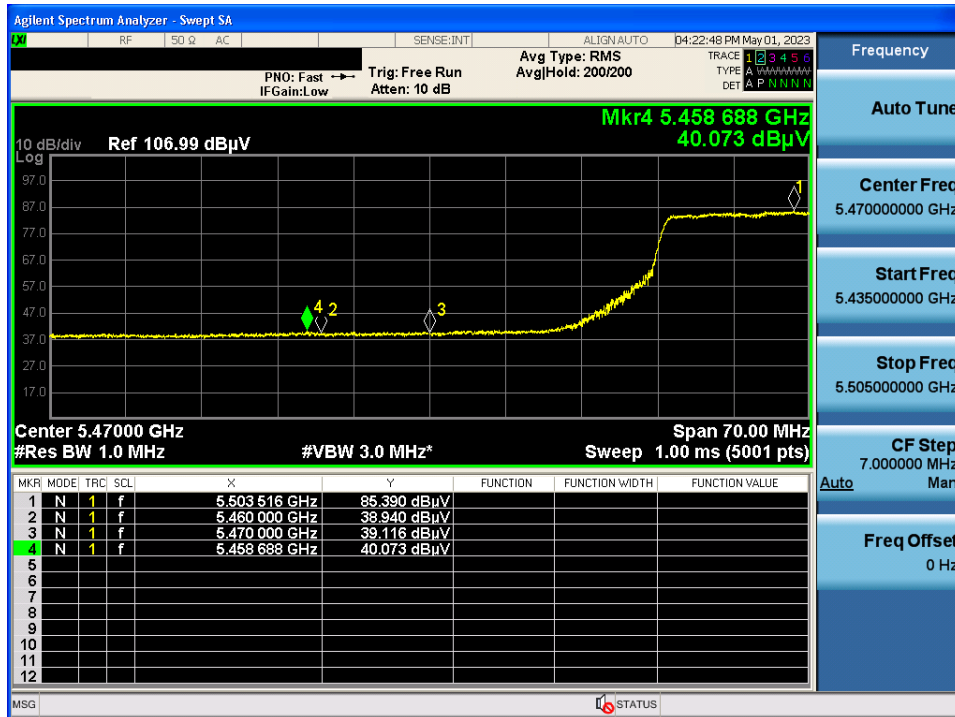
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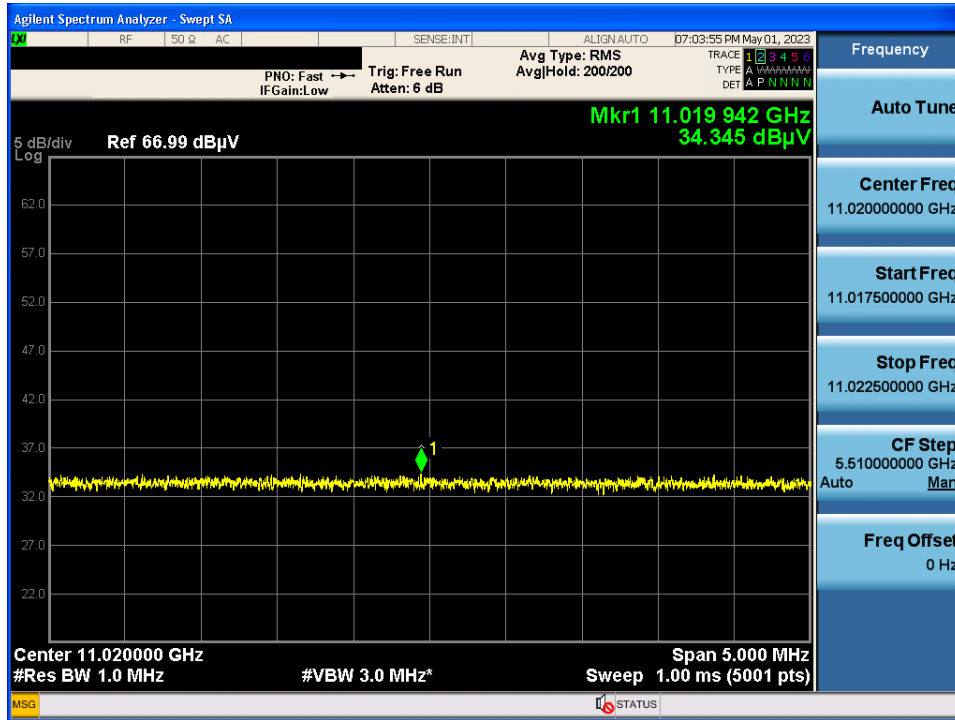
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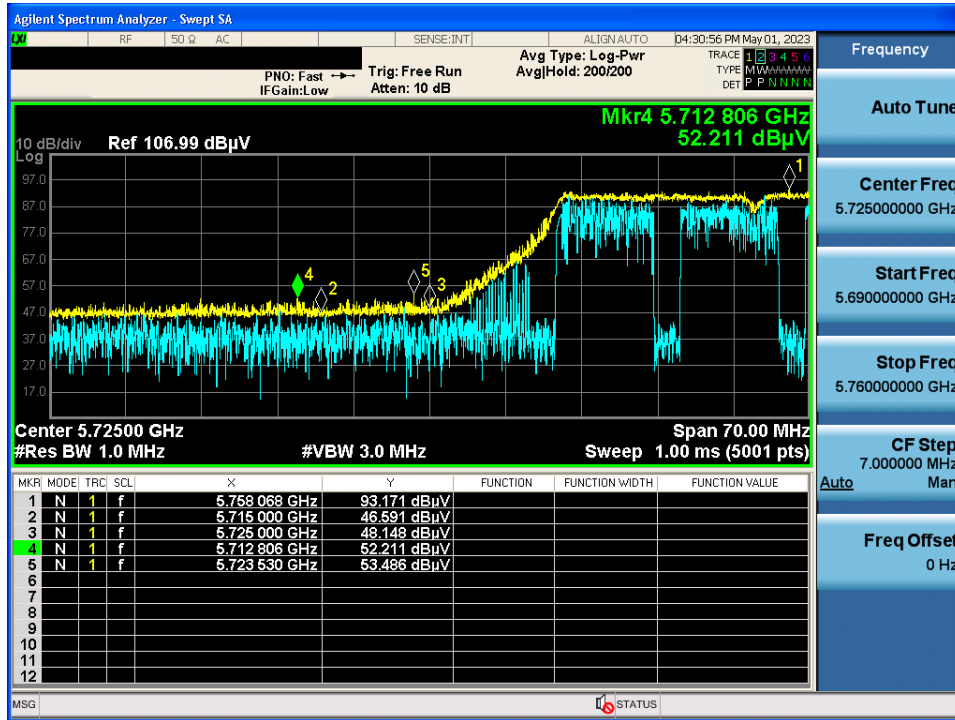
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Detector Mode : AV



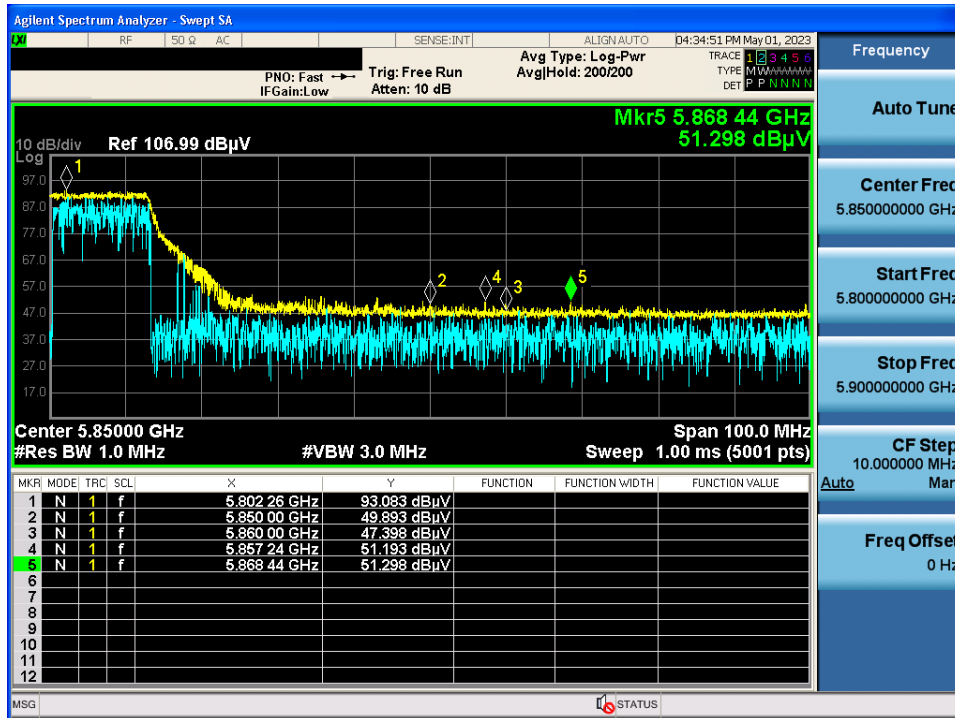
TM 3 & U-NII 3 & 5 755 & Y axis & Ver

Detector Mode : PK



TM 3 & U-NII 3 & 5 795 & Y axis & Ver

Detector Mode : PK



TM 3 & U-NII 3 & 5 755 & Y axis & Ver

Detector Mode : AV

