



FCC TEST REPORT

FCC ID: 2ACGT-TLA001-2

Product	:	Tablet PC
Model Name	:	TLA001, TLA002, TLA005, TLA006, TLA007, TLA008, TLC005, TLA016, TLC006, TLC011, TLC007, TLC008, TL005, T65, T65Plus, T70, T70Pro, Artpad, ArtpadPro, T60Mini, P50, T50Plus, T50mini
Brand	:	TECLAST
Report No.	:	PTC26052917601E-FC04
Prepared for		
Guangzhou Shangke Information Technology Co., Ltd.		
Room 1205-1212, R&F To-Win Building, No.30 Huaxia Road, Tianhe District, Guangzhou, Guangdong, China		
Prepared by		
Precise Testing & Certification Co., Ltd		
Building 1, No. 6, Tongxin Road, Dongcheng Street, Dongguan, Guangdong, China		



1 TEST RESULT CERTIFICATION

Applicant's name : Guangzhou Shangke Information Technology Co., Ltd.

Address : Room 1205-1212, R&F To-Win Building, No.30 Huaxia Road, Tianhe District, Guangzhou, Guangdong, China

Manufacture's name : Guangzhou Shangke Information Technology Co., Ltd.

Address : Room 1205-1212, R&F To-Win Building, No.30 Huaxia Road, Tianhe District, Guangzhou, Guangdong, China

Product name : Tablet PC

Model name : TLA001, TLA002, TLA005, TLA006, TLA007, TLA008, TLC005, TLA016, TLC006, TLC011, TLC007, TLC008, TL005, T65, T65Plus, T70, T70Pro, Artpad, ArtpadPro, T60Mini, P50, T50Plus, T50mini

Standards : FCC CFR47 Part 15 Section 15.407

Test procedure : ANSI C63.10-2020

Test Date : June 15, 2026 to July 10, 2026

Date of Issue : July 10, 2026

Test Result : Pass

This device described above has been tested by PTC, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

This report shall not be reproduced except in full, without the written approval of PTC, this document may be altered or revised by PTC, personal only, and shall be noted in the revision of the document.

Test Engineer:

A handwritten signature in black ink, appearing to read 'Jack Zhou'.

Jack Zhou / Engineer

Technical Manager:

A handwritten signature in black ink, appearing to read 'Simon Pu'.

Simon Pu / Manager



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2 Test Summary

Test Items	Test Requirement	Result
Conduct Emission	15.207	PASS
Radiated Spurious Emissions	15.205(a) 15.209 15.407(b)	PASS
Emission and Occupied Bandwidth	15.407(a)(e)	PASS
Maximum Conducted Output Power	15.407(a)	PASS
Power Spectral Density	15.407(a)	PASS
Frequency stability	15.407 (g)	PASS
Antenna Requirement	15.203	PASS



3 General Information

3.1 General Description of E.U.T.

Product Name	: Tablet PC
Model Name	: TLA001, TLA002, TLA005, TLA006, TLA007, TLA008, TLC005, TLA016, TLC006, TLC011, TLC007, TLC008, TL005, T65, T65Plus, T70, T70Pro, Artpad, ArtpadPro, T60Mini, P50, T50Plus, T50mini
Test Model	: TLA001
Specification	: 802.11a/n HT20/HT40/ac20/ac40/ac80
Operation Frequency	: WIFI 5G: 5180MHZ-5240MHZ 5745MHZ-5825MHZ
Number of Channel	: 9 channels for 802.11a/n20/ac20 4 channels for 802.11n40/ac40 2 channels for 802.11ac80
Type of Modulation	: OFDM
Antenna installation	: FPC Antenna
Antenna Gain	: 3.98 dBi
Power supply	: Input: DC 5V, 2A Or DC 9V, 2.22A DC 3.85V from internal Battery
Adapters	Model:PS10UAO50K2000UU Input:100-240V~ 50/60Hz 0.35A Max Output:5.0V $\overline{\text{---}}$ 2.0A 10.0W
	Model:XY-CU01200500200U01 Input:100-240V~ 50/60Hz 0.4A Max Output:5.0V $\overline{\text{---}}$ 2.0A
	Model: XY-PD020U03 Input:100-240V~ 50/60Hz 0.6A Max Output:5.0V $\overline{\text{---}}$ 3.0A,9.0V $\overline{\text{---}}$ 2.22A
Hardware Version	: TL-SF866A-FSV1.0-20260205
Software Version	: V1.13_20260413
Test sample No.	: PTC26052917601E-1/2, PTC26052917601E-2/2
Model difference	: All models are identical to each other except for the model names.



3.2 Channel List

The EUT has been tested under its typical operating condition.

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

Test of channel included the lowest and middle and highest frequency to perform the test, then record on this report.

Those data rates (802.11a: 6 Mbps; 802.11n (HT20): MCS0; 802.11ac: MCS0;) were used for all test.

Pre-defined engineering program for regulatory testing used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

Frequency and Channel list for 802.11a/n/ac (HT20):

Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	44	5220
40	5200	48	5240
		149	5745
153	5765	157	5785
161	5805	165	5825

Frequency and Channel list for 802.11n/ac (HT40):

Channel	Frequency (MHz)	Channel	Frequency (MHz)
38	5190	46	5230
151	5755	159	5795

Frequency and Channel list for 802.11ac (VHT80):

Channel	Frequency (MHz)	Channel	Frequency (MHz)
42	5210	155	5775



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3.3 Test Site

Precise Testing & Certification Co., Ltd

Address: Building 1, No. 6, Tongxin Road, Dongcheng Street, Dongguan, Guangdong, China

FCC Registration Number: 790290

A2LA Certificate No.: 4408.01

IC Registration Number: 12191A

FCC Designation Number: CN1219



4 Equipment During Test

4.1 Equipments List

RF Conducted Test

Name of Equipment	Manufacturer	Model	Serial No.	Characteristics	Last Calibration	Calibration Interval
MXG Signal Analyzer	Agilent	N9020B	MY63513096	10Hz-50GHz	May 21, 2025	1 Year
Coaxial Cable	CDS	79254	46107086	10Hz-30GHz	Aug.15, 2025	1 Year
Power Meter	Anritsu	ML2495A	0949003	300MHz-40GHz	Aug.15, 2025	1 Year
Power Sensor	Anritsu	MA2411B	0917017	300MHz-40GHz	Aug.15, 2025	1 Year
Test S/W	Tonscend	JS1120-3	/	/	/	/

Radiated Emissions

Name of Equipment	Manufacturer	Model	Serial No.	Characteristics	Last Calibration	Calibration Interval
EMI Test Receiver	Rohde&Schwarz	ESPI7	101671	9KHz-7GHz	Aug.15, 2025	1 Year
Loop Antenna	Schwarzbeck	FMZB 1519	192	9 KHz -30MHz	Aug.15, 2025	1 Year
Bilog Antenna	SCHWARZBECK	VULB9160	9160-3355	25MHz-2GHz	Aug.15, 2025	1 Year
Preamplifier (low frequency)	SCHWARZBECK	BBV 9475	9745-0013	1MHz-1GHz	Aug.15, 2025	1 Year
Cable	IMRO	AK-9515E(9m)	Cable-L	9KHz-3GHz	Aug.15, 2025	1 Year
Spectrum Analyzer	Rohde&Schwarz	FSV40	6625-01-588-5515	9KHz-40GHz	Aug.15, 2025	1 Year
Horn Antenna	SCHWARZBECK	9120D	9120D-1246	1GHz-18GHz	Aug.15, 2025	1 Year
Power Amplifier	ZHINAN	ZN3380C	15002	1GHz-26.5GHz	Aug.15, 2025	1 Year



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Horn Antenna	SCHWARZBEC K	BBHA 9170	9170-1066	15GHz- 40GHz	Jul. 19, 2025	1 Year
Amplifier	SCHWARZBEC K	BBV 9721	9721-205	18GHz- 40GHz	Jul. 19, 2025	1 Year
Cable	H+S	CBL-26	N/A	1GHz- 26.5GHz	Aug.15, 2025	1 Year
RF Cable	R&S	R204	R21X	1GHz-40GHz	Aug.15, 2025	1 Year
Test S/W	Tonscend	TS+	/	/	/	/

Conducted Emissions

Name of Equipment	Manufacturer	Model	Serial No.	Characteristics	Calibration Date	Calibration Interval
EMI Test Receiver	Rohde&Schwarz	ESCI	101417	9KHz-3GHz	Aug.15, 2025	1 Year
Artificial Mains Network	Rohde&Schwarz	ENV216	102453	9KHz-300MHz	Aug.15, 2025	1 Year
Artificial Mains Network	Rohde&Schwarz	ENV216	101342	9KHz-300MHz	Aug.15, 2025	1 Year
Limiter	R&S	ESH3-Z2	0357.8810.54-102808-NB	0Hz-30MHz	Aug.15, 2025	1 Year
RF Switch	DIAMOND ANTENNA	CX-210	/	9kHz-6GHz	Mar. 21,2026	1 Year
Test S/W	Tonscend	JS32-CE	/	/	/	/



4.2 Measurement Uncertainty

Parameter	Uncertainty
RF output power, conducted	$\pm 1.0\text{dB}$
Power Spectral Density, conducted	$\pm 2.2\text{dB}$
Radio Frequency	$\pm 1 \times 10^{-6}$
Bandwidth	$\pm 1.5 \times 10^{-6}$
Time	$\pm 2\%$
Duty Cycle	$\pm 2\%$
Temperature	$\pm 1^\circ\text{C}$
Humidity	$\pm 5\%$
DC and low frequency voltages	$\pm 3\%$
Conducted Emissions (150kHz~30MHz)	$\pm 3.64\text{dB}$
Radiated Emission(9kHz~30MHz)	$\pm 3.15\text{dB}$
Radiated Emission(30MHz~1GHz)	$\pm 5.03\text{dB}$
Radiated Emission(1GHz~18GHz)	$\pm 4.74\text{dB}$
Radiated Emission(18GHz~40GHz)	$\pm 3.20\text{dB}$



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4.3 Description of Support Units

Equipment	Model No.	Manufacture	FCC ID
/	/	/	/

5 Conducted Emission

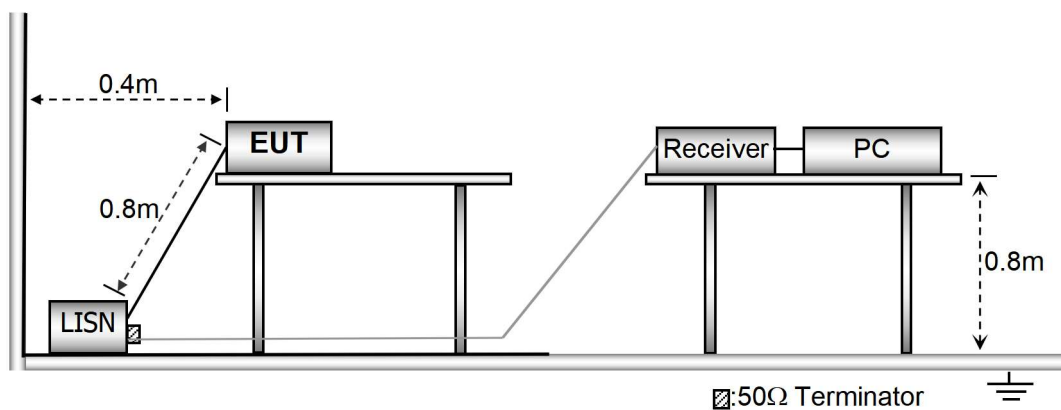
Test Requirement:	: FCC CFR 47 Part 15 Section 15.207
Test Method	: ANSI C63.10-2020
Test Result	: PASS
Frequency Range	: 150kHz to 30MHz
Class/Severity	: Class B

5.1 E.U.T. Operation

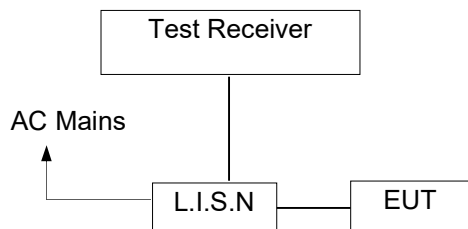
Operating Environment :	
Temperature:	: 25°C
Humidity:	: 54 % RH
Atmospheric Pressure:	: 101.1 kPa
Test Voltage	: AC 120V/60Hz

5.2 EUT Setup

The conducted emission tests were performed using the setup accordance with the ANSI C63.10:2020.



5.3 Test SET-UP (Block Diagram of Configuration)



5.4 Measurement Procedure

1. The EUT was placed on a table, which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all frequency measured was complete.

5.5 Conducted Emission Limit

Conducted Emission

Frequency(MHz)	Quasi-peak	Average
0.15-0.5	66-56	56-46
0.5-5.0	56	46
5.0-30.0	60	50

Note:

1. The lower limit shall apply at the transition frequencies
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

5.6 Measurement Description

The maximised peak emissions from the EUT was scanned and measured for both the Live and Neutral Lines. Quasi-peak & average measurements were performed if peak emissions were within 6dB of the average limit line.

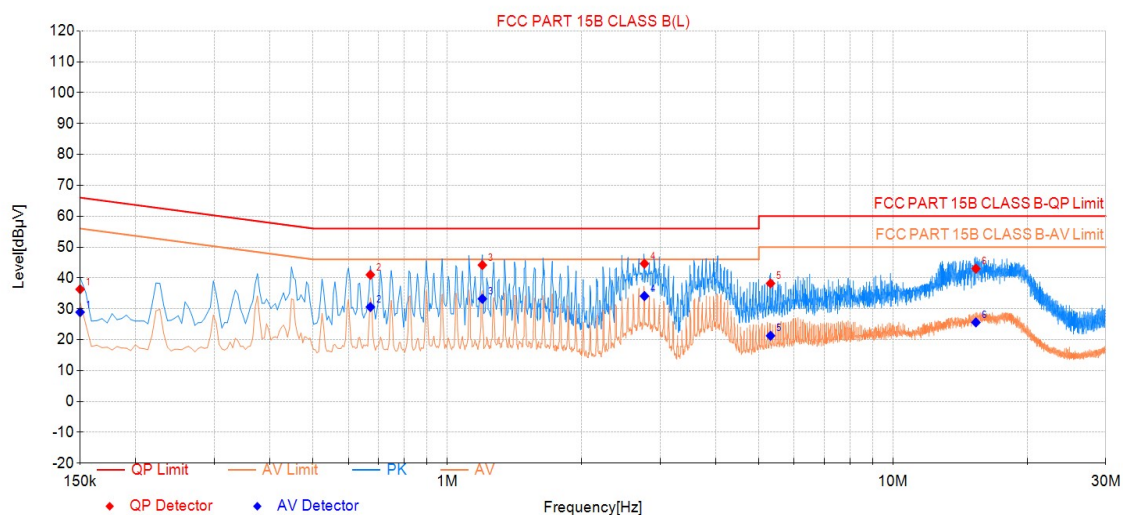
5.7 Conducted Emission Test Result

Pass.

All the modulation modes and adapters were tested the data of the worst mode (AC 120V/60Hz, TX 5180MHz, adapter PS10UAO50K2000UU) are recorded in the following pages and the others modulation methods do not exceed the limits.



Line- AC 120V/60Hz

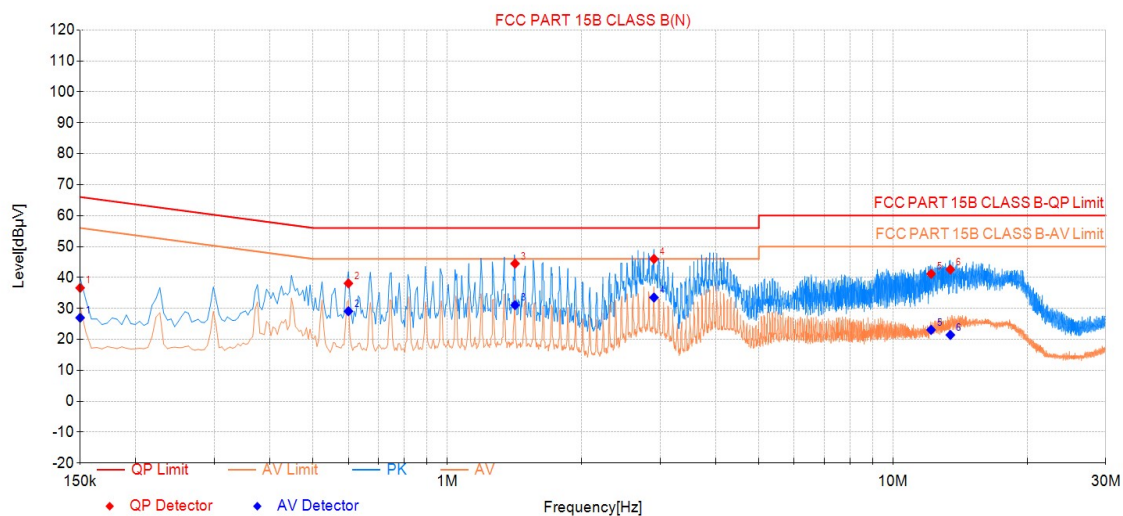


Final test data

NO.	Freq. [MHz]	Factor [dB]	QP Reading[d BμV]	QP Value	QP Limit	QP Margin	AV Reading[d BμV]	AV Value	AV Limit	AV Margin	Verdict
1	0.150	19.90	16.43	36.33	66.00	29.67	9.01	28.91	56.00	27.09	PASS
2	0.672	19.85	21.18	41.03	56.00	14.97	10.73	30.58	46.00	15.42	PASS
3	1.199	19.83	24.34	44.17	56.00	11.83	13.40	33.23	46.00	12.77	PASS
4	2.769	19.85	24.77	44.62	56.00	11.38	14.28	34.13	46.00	11.87	PASS
5	5.312	19.85	18.39	38.24	60.00	21.76	1.44	21.29	50.00	28.71	PASS
6	15.342	19.96	23.06	43.02	60.00	16.98	5.64	25.60	50.00	24.40	PASS



Neutral-AC 120V/60Hz



Final test data

NO.	Freq. [MHz]	Factor [dB]	QP Reading[d BμV]	QP Value	QP Limit	QP Margin	AV Reading[d BμV]	AV Value	AV Limit	AV Margin	Verdict
1	0.150	19.88	16.75	36.63	66.00	29.37	7.10	26.98	56.00	29.02	PASS
2	0.600	19.84	18.25	38.09	56.00	17.91	9.25	29.09	46.00	16.91	PASS
3	1.419	19.85	24.65	44.50	56.00	11.50	11.22	31.07	46.00	14.93	PASS
4	2.909	19.86	26.12	45.98	56.00	10.02	13.66	33.52	46.00	12.48	PASS
5	12.174	19.89	21.29	41.18	60.00	18.82	3.18	23.07	50.00	26.93	PASS
6	13.448	19.90	22.67	42.57	60.00	17.43	1.53	21.43	50.00	28.57	PASS

Note: QP Margin[dB]= QP Limit[dBμV]- QP Value[dBμV], AV Margin[dB]= AV Limit[dBμV]- AV Value[dBμV].



6 Radiated Spurious Emissions

Test Requirement	:	FCC CFR47 Part 15 Section 15.209 & 15.407(b)
Test Method	:	ANSI C63.10-2020
Test Result	:	PASS
Measurement Distance	:	3m

Limit

(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(4) For transmitters operating in the 5.725-5.85 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.

(ii) Devices certified before March 2, 2017 with antenna gain greater than 10 dBi may demonstrate compliance with the emission limits in §15.247(d), but manufacturing, marketing and importing of devices certified under this alternative must cease by March 2, 2018. Devices certified before March 2, 2018 with antenna gain of 10 dBi or less may demonstrate compliance with the emission limits in §15.247(d), but manufacturing, marketing and importing of devices certified under this alternative must cease before March 2, 2020.

(5) 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.

(6) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209.

Further.

(7) The provisions of §15.205 apply to intentional radiators operating under this section.

(8) When measuring the emission limits, the nominal carrier frequency shall be adjusted as close to the upper and lower frequency band edges as the design of the equipment permits. As per FCC §15.35(d): Unless otherwise specified, on any frequency or frequencies above 1000 MHz, the radiated emission limits are based on the use of measurement instrumentation employing an average detector function. Unless otherwise specified, measurements above 1000 MHz shall be performed using a minimum resolution bandwidth of 1MHz



As per FCC §15.209(a): Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength		Field Strength Limit at 3m Measurement Dist	
	uV/m	Distance (m)	uV/m	dBuV/m
0.009 ~ 0.490	$2400/F(\text{kHz})$	300	$10000 * 2400/F(\text{kHz})$	$20\log^{(2400/F(\text{kHz}))} + 80$
0.490 ~ 1.705	$24000/F(\text{kHz})$	30	$100 * 24000/F(\text{kHz})$	$20\log^{(24000/F(\text{kHz}))} + 40$
1.705 ~ 30	30	30	$100 * 30$	$20\log^{(30)} + 40$
30 ~ 88	100	3	100	$20\log^{(100)}$
88 ~ 216	150	3	150	$20\log^{(150)}$
216 ~ 960	200	3	200	$20\log^{(200)}$
Above 960	500	3	500	$20\log^{(500)}$

6.1 EUT Operation

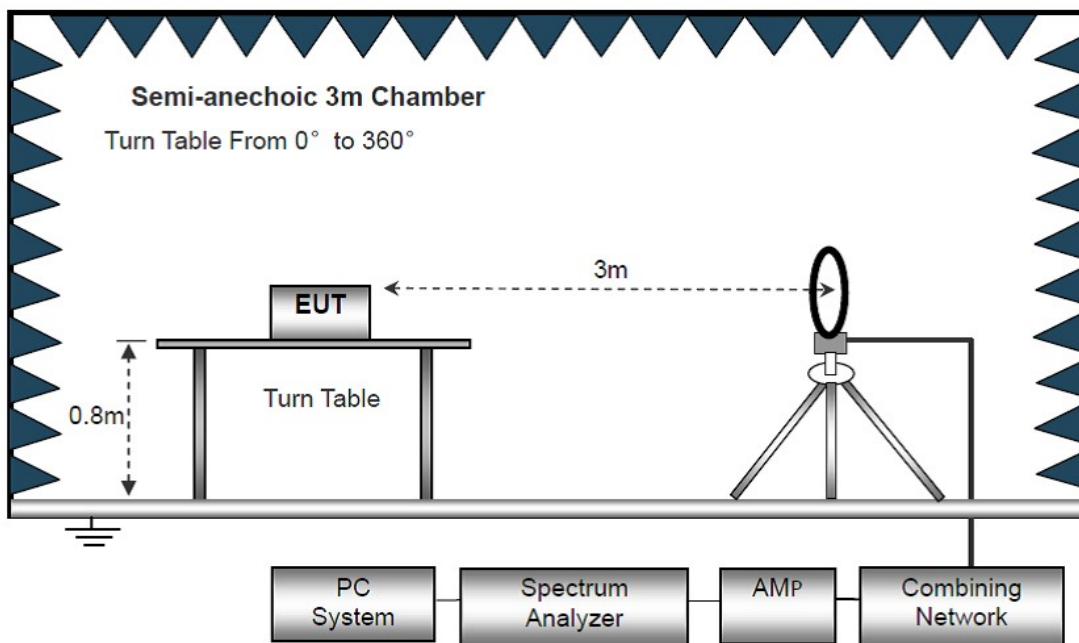
Operating Environment :

Temperature: : 25.5 °C
 Humidity: : 55.2% RH
 Atmospheric Pressure: : 101.1kPa

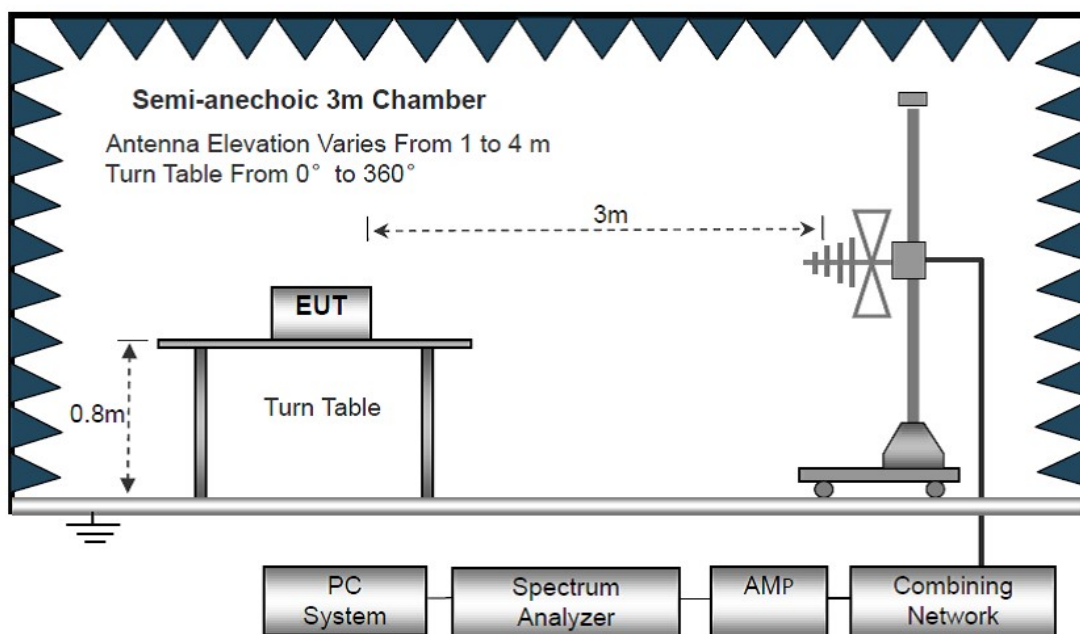
6.2 Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site

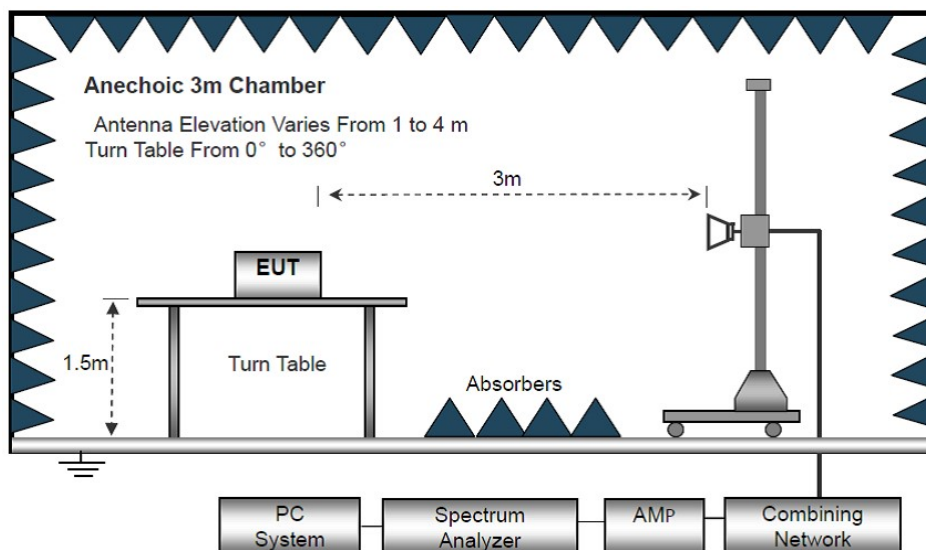
The test setup for emission measurement below 30MHz



The test setup for emission measurement from 30 MHz to 1 GHz.



The test setup for emission measurement above 1 GHz



6.3 Spectrum Analyzer Setup

Receiver Setup	Frequency	Detector	RBW	VBW	Remark
	Below 30MHz	--	10kHz	10kHz	--
	30MHz ~ 1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
		RMS	1MHz	3MHz	Average Value



6.4 Test Procedure

1. Below 1000MHz, The EUT was placed on a turn table which is 0.8m above ground plane, And above 1000MHz, The EUT's ANT is 1.5m above ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is moved from 1m to 4m to find out the maximum emissions. The spectrum was investigated from the lowest radio frequency signal generated in the device, without going below 9 kHz, up to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.
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.
7. The radiation measurements are tested under 3-axes(X,Y,Z) position(X denotes lying on the table, Y denotes side stand and Z denotes vertical stand), After pre-test, It was found that the worse radiation emission was get at the X position. So the data shown was the X position only.
8. The test above 1GHz must be use the fully anechoic room, and the test below 1GHz use the half anechoic room



6.5 Summary of Test Results

Test Frequency: 9KHz-30MHz

Note:

The amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

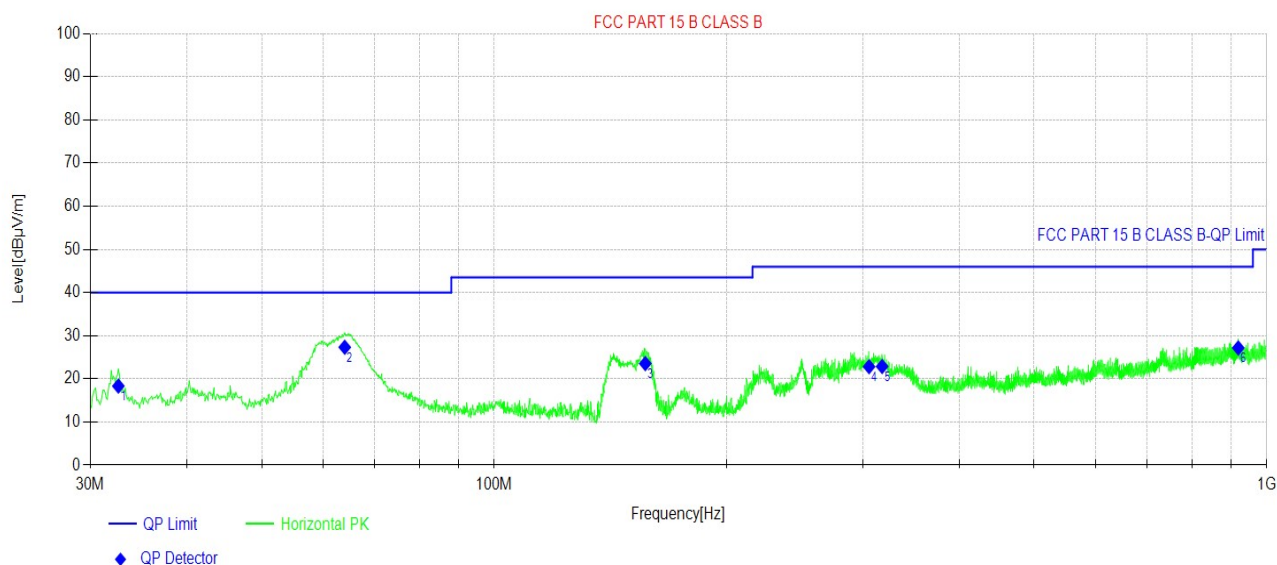
Distance extrapolation factor = $40\log(\text{Specific distance} / \text{test distance})$ (dB);
Limit line = Specific limits (dBuV) + distance extrapolation factor.

Test Frequency: 30MHz ~ 1GHz

All the modulation modes and adapters were tested the data of the worst mode (802.11a Channel 36, adapter PS10UA050K2000UU) are recorded in the following pages and the others modulation methods do not exceed the limits.

Please refer to the following test plots:

Antenna Polarization: Horizontal



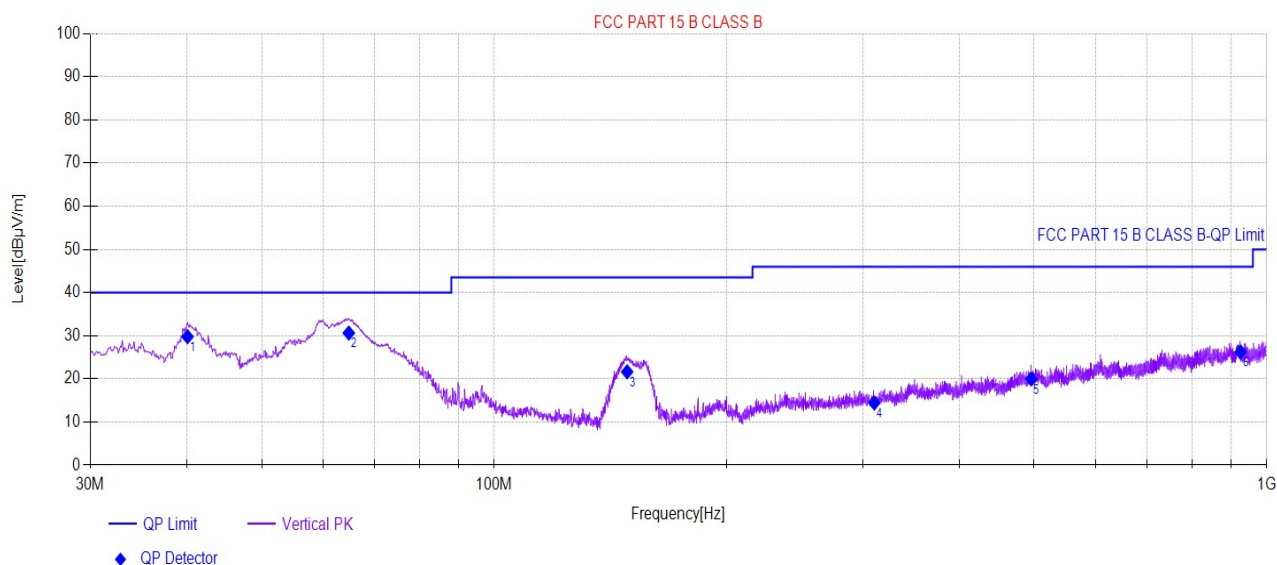
Final Test Data

NO.	Freq. [MHz]	QP Reading [dBμV/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Factor [dB]	Height [cm]	Angle [°]	Polarity	Result
1	32.62	45.01	18.34	40.00	21.66	-26.67	100	310	Horizontal	PASS
2	64.05	52.19	27.33	40.00	12.67	-24.86	100	240	Horizontal	PASS
3	156.89	50.99	23.55	43.50	19.95	-27.44	100	220	Horizontal	PASS
4	305.70	44.61	22.82	46.00	23.18	-21.79	100	230	Horizontal	PASS
5	317.83	43.98	22.87	46.00	23.13	-21.11	100	300	Horizontal	PASS
6	918.80	36.67	27.17	46.00	18.83	-9.50	100	330	Horizontal	PASS

Remark: Emission Level = Reading + Cable Loss + ANT Factor - AMP Factor



Antenna Polarization: Vertical



Final Test Data										
NO.	Freq. [MHz]	QP Reading [dBμV/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Factor [dB]	Height [cm]	Angle [°]	Polarity	Result
1	40.09	53.64	29.78	40.00	10.22	-23.86	100	260	Vertical	PASS
2	64.83	55.74	30.62	40.00	9.38	-25.12	100	310	Vertical	PASS
3	148.64	50.01	21.64	43.50	21.86	-28.37	100	140	Vertical	PASS
4	310.46	36.08	14.43	46.00	31.57	-21.65	100	50	Vertical	PASS
5	495.84	36.6	19.98	46.00	26.02	-16.62	100	300	Vertical	PASS
6	925.30	36.07	26.24	46.00	19.76	-9.83	100	220	Vertical	PASS

Remark: Emission Level = Reading + Cable Loss + ANT Factor - AMP Factor



Test Frequency: From 1GHz to 40GHz

Pre-scan all test modes

Only the worst case Main test data.

Please refer to the following test plots:

802.11a

Test Mode: 5180					Test channel: Lowest			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
10360	46.47	38.98	5.36	31.25	59.56	68.2	-8.64	V
15540	44.60	39.58	7.85	30.63	61.40	68.2	-6.80	V
20720	45.33	37.92	8.56	34.95	56.86	68.2	-11.34	V
10360	48.75	38.98	5.36	31.25	61.84	68.2	-6.36	H
15540	40.34	39.58	7.85	30.63	57.14	68.2	-11.06	H
20720	41.91	37.92	8.56	34.95	53.44	68.2	-14.76	H
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
10360	34.17	38.98	5.36	31.25	47.26	54	-6.74	V
15540	28.42	39.58	7.85	30.63	45.22	54	-8.78	V
20720	24.67	37.92	8.56	34.95	36.20	54	-17.80	V
10360	35.63	38.98	5.36	31.25	48.72	54	-5.28	H
15540	22.40	39.58	7.85	30.63	39.20	54	-14.80	H
20720	24.58	37.92	8.56	34.95	36.11	54	-17.89	H



802.11a

Test Mode:5200					Test channel: Middle			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
10400	48.13	39.1	5.36	31.25	61.34	68.2	-6.86	V
15600	44.33	39.7	7.85	30.63	61.25	68.2	-6.95	V
20800	42.58	37.84	8.56	34.95	54.03	68.2	-14.17	V
10400	46.81	39.1	5.36	31.25	60.02	68.2	-8.18	H
15600	41.20	39.7	7.85	30.63	58.12	68.2	-10.08	H
20800	43.00	37.84	8.56	34.95	54.45	68.2	-13.75	H
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
10400	32.74	39.1	5.36	31.25	45.95	54	-8.05	V
15600	26.17	39.7	7.85	30.63	43.09	54	-10.91	V
20800	31.89	37.84	8.56	34.95	43.34	54	-10.66	V
10400	32.68	39.1	5.36	31.25	45.89	54	-8.11	H
15600	29.75	39.7	7.85	30.63	46.67	54	-7.33	H
20800	27.50	37.84	8.56	34.95	38.95	54	-15.05	H



802.11a

Test Mode:5240					Test channel: High			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
10480	47.76	39.34	5.36	31.25	61.21	68.2	-6.99	V
15720	45.30	39.72	7.85	30.63	62.24	68.2	-5.96	V
20960	43.77	37.65	8.56	34.95	55.03	68.2	-13.17	V
10480	47.35	39.34	5.36	31.25	60.80	68.2	-7.40	H
15720	43.89	39.72	7.85	30.63	60.83	68.2	-7.37	H
20960	45.22	37.65	8.56	34.95	56.48	68.2	-11.72	H
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
10480	31.70	39.34	5.36	31.25	45.15	54	-8.85	V
15720	29.59	39.72	7.85	30.63	46.53	54	-7.47	V
20960	27.34	37.65	8.56	34.95	38.60	54	-15.40	V
10480	31.27	39.34	5.36	31.25	44.72	54	-9.28	H
15720	25.91	39.72	7.85	30.63	42.85	54	-11.15	H
20960	27.27	37.65	8.56	34.95	38.53	54	-15.47	H



802.11a

Test Mode: 5745					Test channel: Lowest			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
11490	50.71	39.65	5.42	31.75	64.03	68.2	-4.17	V
17235	42.34	41.28	7.32	30.96	59.98	68.2	-8.22	V
22980	43.40	37.12	8.85	35.25	54.12	68.2	-14.08	V
11490	49.50	39.65	5.42	31.75	62.82	68.2	-5.38	H
17235	41.08	41.28	7.32	30.96	58.72	68.2	-9.48	H
22980	43.66	37.12	8.85	35.25	54.38	68.2	-13.82	H
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
11490	31.44	39.65	5.42	31.75	44.76	54	-9.24	V
17235	29.41	41.28	7.32	30.96	47.05	54	-6.95	V
22980	27.63	37.12	8.85	35.25	38.35	54	-15.65	V
11490	31.71	39.65	5.42	31.75	45.03	54	-8.97	H
17235	27.93	41.28	7.32	30.96	45.57	54	-8.43	H
22980	30.43	37.12	8.85	35.25	41.15	54	-12.85	H



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Test Mode:5785					Test channel: Middle			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
11570	49.61	39.84	5.42	31.75	63.12	68.2	-5.08	V
17355	45.04	42.02	7.32	30.96	63.42	68.2	-4.78	V
23140	42.29	37.32	8.85	35.25	53.21	68.2	-14.99	V
11570	50.75	39.84	5.42	31.75	64.26	68.2	-3.94	H
17355	43.92	42.02	7.32	30.96	62.30	68.2	-5.90	H
23140	41.37	37.32	8.85	35.25	52.29	68.2	-15.91	H
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
11570	32.31	39.84	5.42	31.75	45.82	54	-8.18	V
17355	29.79	42.02	7.32	30.96	48.17	54	-5.83	V
23140	27.97	37.32	8.85	35.25	38.89	54	-15.11	V
11570	33.84	39.84	5.42	31.75	47.35	54	-6.65	H
17355	28.90	42.02	7.32	30.96	47.28	54	-6.72	H
23140	29.94	37.32	8.85	35.25	40.86	54	-13.14	H



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Test Mode:5825					Test channel: High			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
11650	49.37	39.8	5.42	31.75	62.84	68.2	-5.36	V
17475	45.82	42.13	7.32	30.96	64.31	68.2	-3.89	V
23300	42.99	37.6	8.85	35.25	54.19	68.2	-14.01	V
11650	43.80	39.8	5.42	31.75	57.27	68.2	-10.93	H
17475	42.67	42.13	7.32	30.96	61.16	68.2	-7.04	H
23300	46.33	37.6	8.85	35.25	57.53	68.2	-10.67	H
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
11650	37.24	39.8	5.42	31.75	50.71	54	-3.29	V
17475	26.59	42.13	7.32	30.96	45.08	54	-8.92	V
23300	32.62	37.6	8.85	35.25	43.82	54	-10.18	V
11650	32.69	39.8	5.42	31.75	46.16	54	-7.84	H
17475	28.93	42.13	7.32	30.96	47.42	54	-6.58	H
23300	27.32	37.6	8.85	35.25	38.52	54	-15.48	H

Note:

1. The testing has been conformed to 40GHz.
2. All other emissions more than 30dB below the limit.
3. Factor = Antenna Factor + Cable Loss – Pre-amplifier.
Emission Level = Reading + Factor
Margin=Emission Level-Limit
4. X-Axis, Y-Axis and Z-Axis were investigated. The results above show only the worst case.



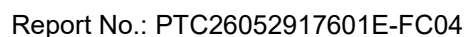
Undesirable emission

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	30~5140	5138.64	-46.53	≤-27	PASS
11A	Ant1	5180	5360~40000	38495.47	-45.43	≤-27	PASS
11A	Ant1	5200	30~5140	5120.07	-49.23	≤-27	PASS
11A	Ant1	5200	5360~40000	34569.6	-45.36	≤-27	PASS
11A	Ant1	5240	30~5140	4192.78	-48.14	≤-27	PASS
11A	Ant1	5240	5360~40000	39005.83	-45.19	≤-27	PASS
11A	Ant1	5745	30~5650	2479.2	-49.27	≤-27	PASS
11A	Ant1	5745	5925~40000	35109.1	-46.58	≤-27	PASS
11A	Ant1	5785	30~5650	4630.91	-49.01	≤-27	PASS
11A	Ant1	5785	5925~40000	39931.85	-45.79	≤-27	PASS
11A	Ant1	5825	30~5650	4660.88	-48.17	≤-27	PASS
11A	Ant1	5825	5925~40000	38974.34	-45.61	≤-27	PASS
11N20SISO	Ant1	5180	30~5140	5140	-39.47	≤-27	PASS
11N20SISO	Ant1	5180	5360~40000	34556.9	-44.91	≤-27	PASS
11N20SISO	Ant1	5200	30~5140	5123.48	-47.73	≤-27	PASS
11N20SISO	Ant1	5200	5360~40000	39926.1	-45.18	≤-27	PASS
11N20SISO	Ant1	5240	30~5140	4192.78	-48.7	≤-27	PASS
11N20SISO	Ant1	5240	5360~40000	39056.64	-44.68	≤-27	PASS
11N20SISO	Ant1	5745	30~5650	4596.62	-49.87	≤-27	PASS
11N20SISO	Ant1	5745	5925~40000	38986.84	-45.49	≤-27	PASS
11N20SISO	Ant1	5785	30~5650	4631.28	-49.57	≤-27	PASS
11N20SISO	Ant1	5785	5925~40000	39136.77	-45.89	≤-27	PASS
11N20SISO	Ant1	5825	30~5650	4660.32	-47.46	≤-27	PASS
11N20SISO	Ant1	5825	5925~40000	34777.44	-45.46	≤-27	PASS
11N40SISO	Ant1	5190	30~5140	5135.23	-37.77	≤-27	PASS
11N40SISO	Ant1	5190	5360~40000	39086.66	-45.54	≤-27	PASS
11N40SISO	Ant1	5230	30~5140	4766.97	-47.58	≤-27	PASS
11N40SISO	Ant1	5230	5360~40000	39117.83	-45.68	≤-27	PASS
11N40SISO	Ant1	5755	30~5650	5293.13	-49.57	≤-27	PASS
11N40SISO	Ant1	5755	5925~40000	39588.83	-45.35	≤-27	PASS
11N40SISO	Ant1	5795	30~5650	5331.72	-50.16	≤-27	PASS
11N40SISO	Ant1	5795	5925~40000	35236.32	-46.29	≤-27	PASS
11AC20SISO	Ant1	5180	30~5140	5139.15	-42.02	≤-27	PASS
11AC20SISO	Ant1	5180	5360~40000	34615.79	-45.3	≤-27	PASS
11AC20SISO	Ant1	5200	30~5140	5138.47	-49.91	≤-27	PASS
11AC20SISO	Ant1	5200	5360~40000	34922.93	-45.55	≤-27	PASS
11AC20SISO	Ant1	5240	30~5140	4192.44	-48.33	≤-27	PASS
11AC20SISO	Ant1	5240	5360~40000	36746.15	-45.07	≤-27	PASS
11AC20SISO	Ant1	5745	30~5650	4596.44	-50.56	≤-27	PASS
11AC20SISO	Ant1	5745	5925~40000	39962.52	-45.85	≤-27	PASS
11AC20SISO	Ant1	5785	30~5650	4630.91	-50.13	≤-27	PASS
11AC20SISO	Ant1	5785	5925~40000	38928.91	-46.24	≤-27	PASS
11AC20SISO	Ant1	5825	30~5650	4660.51	-48.9	≤-27	PASS
11AC20SISO	Ant1	5825	5925~40000	39440.03	-44.77	≤-27	PASS
11AC40SISO	Ant1	5190	30~5140	5139.66	-39.29	≤-27	PASS
11AC40SISO	Ant1	5190	5360~40000	34956.42	-45.1	≤-27	PASS
11AC40SISO	Ant1	5230	30~5140	4767.48	-49.35	≤-27	PASS
11AC40SISO	Ant1	5230	5360~40000	38496.62	-44.86	≤-27	PASS
11AC40SISO	Ant1	5755	30~5650	4604.31	-49.29	≤-27	PASS
11AC40SISO	Ant1	5755	5925~40000	39972.74	-45.32	≤-27	PASS
11AC40SISO	Ant1	5795	30~5650	4636.71	-49.56	≤-27	PASS
11AC40SISO	Ant1	5795	5925~40000	38974.34	-45.91	≤-27	PASS
11AC80SISO	Ant1	5210	30~5140	5138.47	-37.17	≤-27	PASS



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11AC80SISO	Ant1	5210	5360~40000	39976.91	-44.93	≤ -27	PASS
11AC80SISO	Ant1	5775	30~5650	5633.7	-48.81	≤ -27	PASS
11AC80SISO	Ant1	5775	5925~40000	39969.33	-46.05	≤ -27	PASS



Spectrum Analyzer 1
Sweep SA

KEYSIGHT Input: RF
RL → Coupling: DC
Align: Auto

Input Z: 50 Ω
Corr: Corr
Freq Ref: Int (S)

#Att: 10 dB
Preamp: Off
Source: Off

PNO: Fast
Gate: Off
IF Gain: Low
Sig Track: Off

#Avg Type: Power (RMS)
Ave/Hold: 100/100
Trig: Free Run

1 2 3 4 5 6
M W W W W W
P P P P P P

Center Frequency
2.585000000 GHz

Span
5.11000000 GHz
Sweep Span
Zero Span
Full Span

Start Freq
30.000000 MHz

Stop Freq
5.140000000 GHz

AUTO TUNE

Off Step
511.000000 MHz
Auto
Man

Freq Offset
0 Hz

X Axis Scale
Log
Lin

Signal Track
(Show Trace)

1 Spectrum
Ref Lvl Offset 14.31 dB
Ref Level 14.31 dBm

Mkr1 5.13864 GHz -46.53 dBm

Scale/Div 10 dB
Log

Start 30 MHz
#Res BW 1.0 MHz

#Video BW 3.0 MHz

Stop 5.140 GHz
Sweep ~10.8 ms (30001 pts)

Jun 25, 2026 7:03:03 PM

Spectrum Analyzer 1
Sweep SA

Input: RF
Coupling: DC
Align: Auto

Input 2: 50 Ω
Corr: Corr
Freq Ref: Int (S)

Attenuation: 10 dB
Preamp: Off
Source: Off

PNO: Fast
Gate: Off
IF Gain: Low
Sig Track: Off

Avg Type: Power (RMS)
Ave/Hold: 100/100
Trig: Free Run

Center Frequency: 22.68000000 GHz
Span: 34.84000000 GHz
Sweep Span: Zero Span
Full Span:

Start Freq: 5.360000000 GHz
Stop Freq: 40.000000000 GHz
AUTO TUNE

CF Step: 3.464000000 GHz
Auto: ☒ **Man:** ☐
Freq Offset: 0 Hz

X Axis State: **Log** ☒ **Lin** ☐
Signal Track: Show (7 rpt.)

1 Spectrum
Scale/Div 10 dB
Log

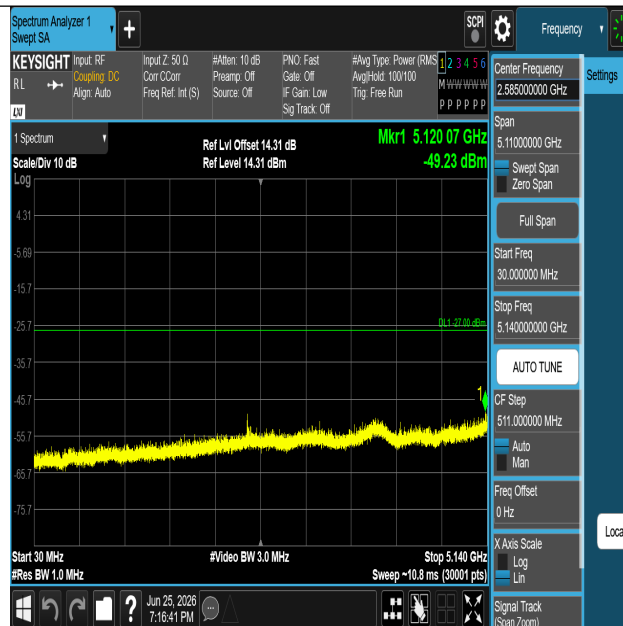
Ref Lvl Offset: 14.31 dB
Ref Level: 14.31 dBm

Mkr1: 38.4955 GHz
-45.43 dBm

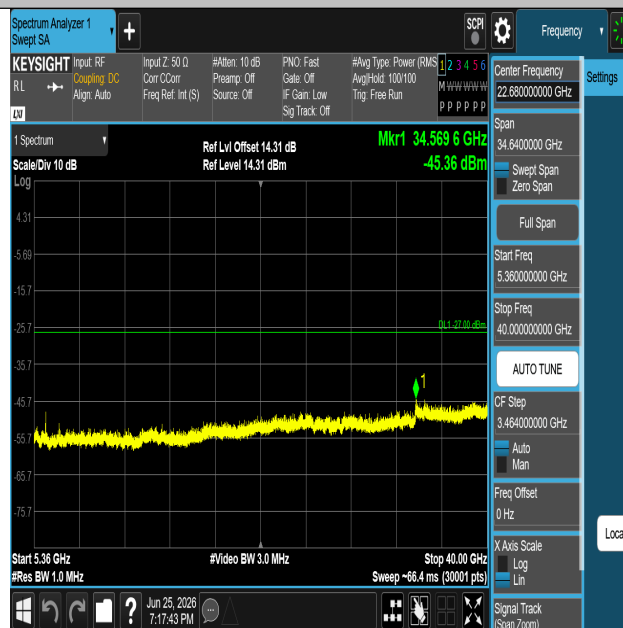
Start: 5.36 GHz
#Res BW: 1.0 MHz
#Video BW: 3.0 MHz
Stop: 40.00 GHz
Sweep: ~66.4 ms (30001 pts)

Jun 25, 2026 7:04:06 PM

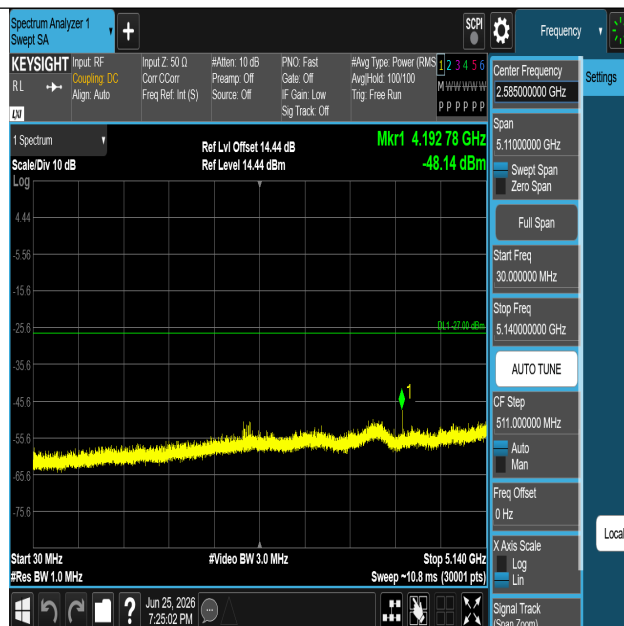
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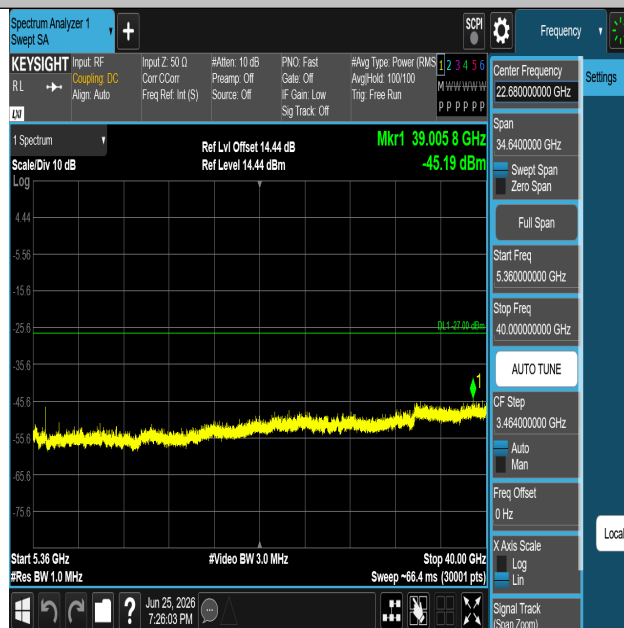
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11A-Ant1-5200-5360~40000-PASS



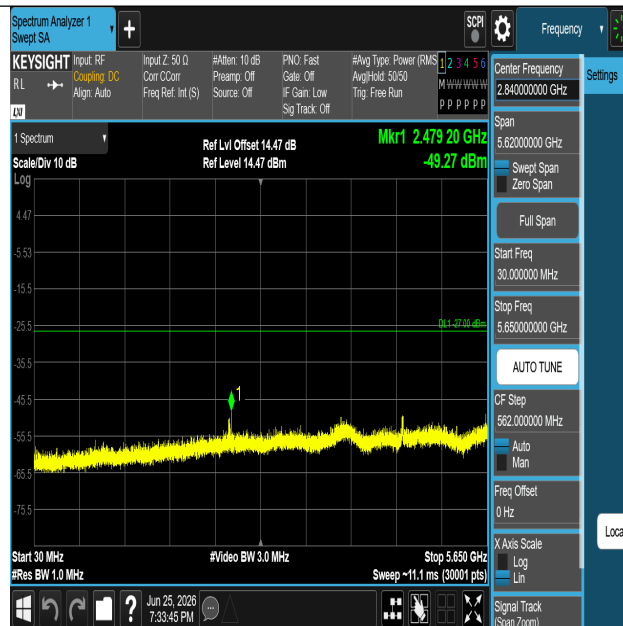
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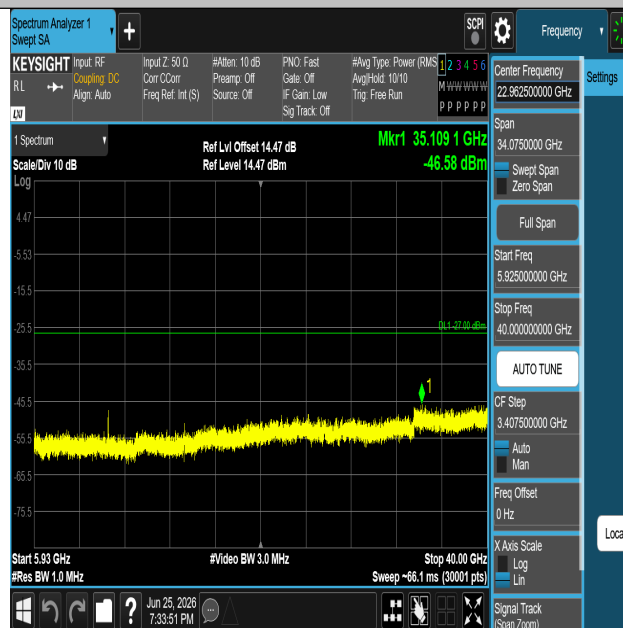
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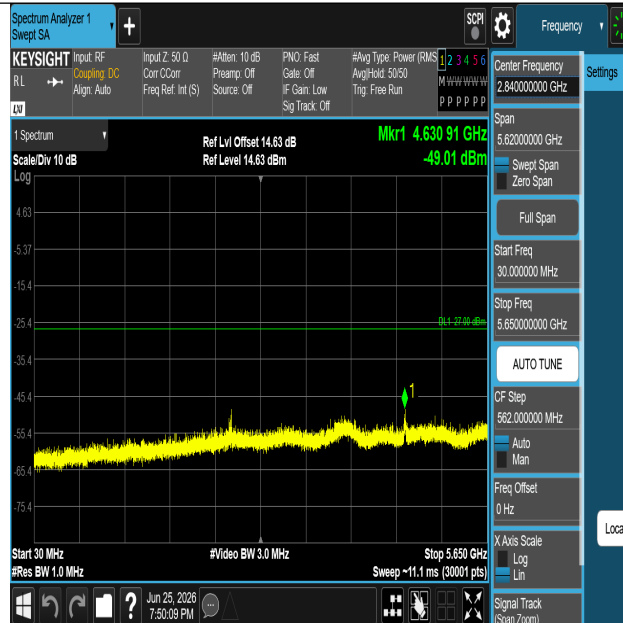
Report No.: PTC26052917601E-FC04



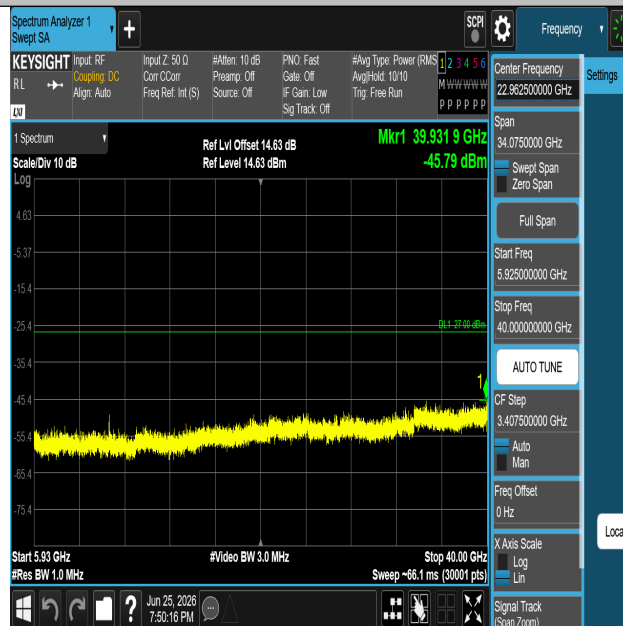
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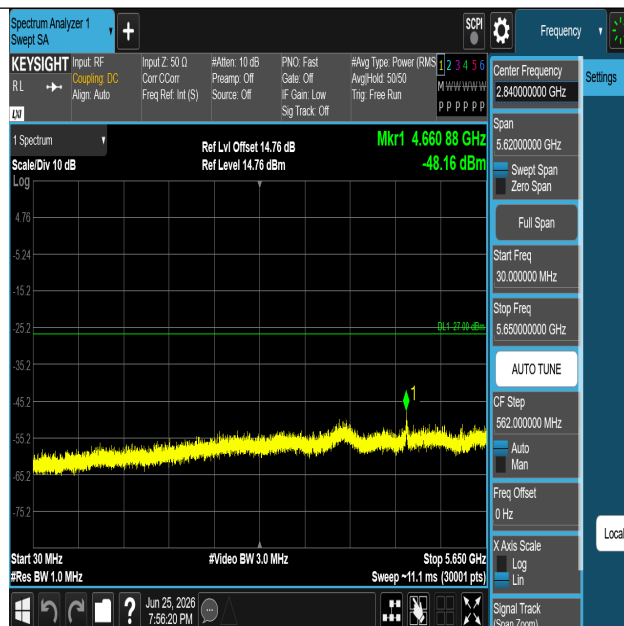
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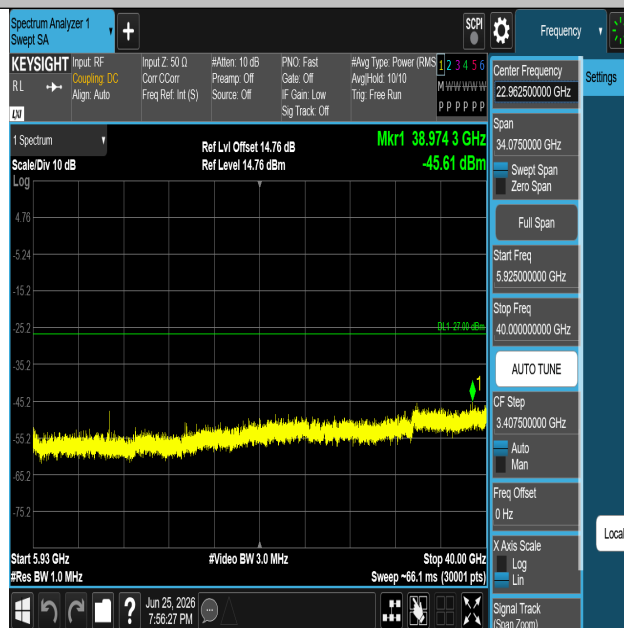
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11A-Ant1-5785-5925~40000-PASS



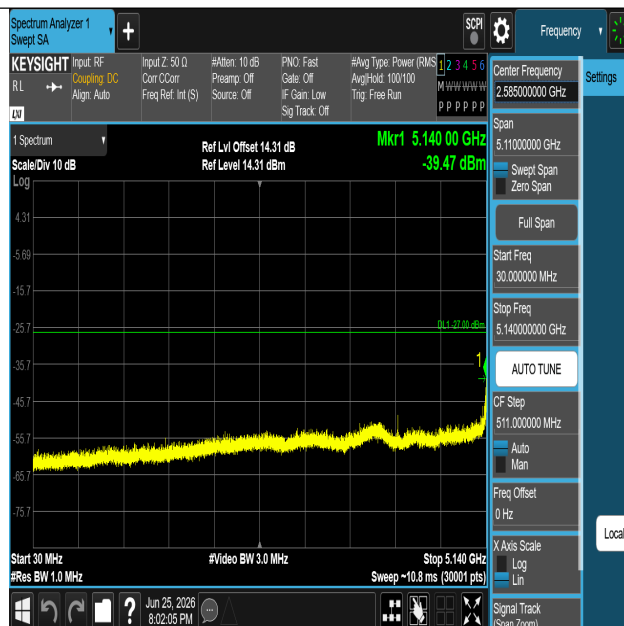
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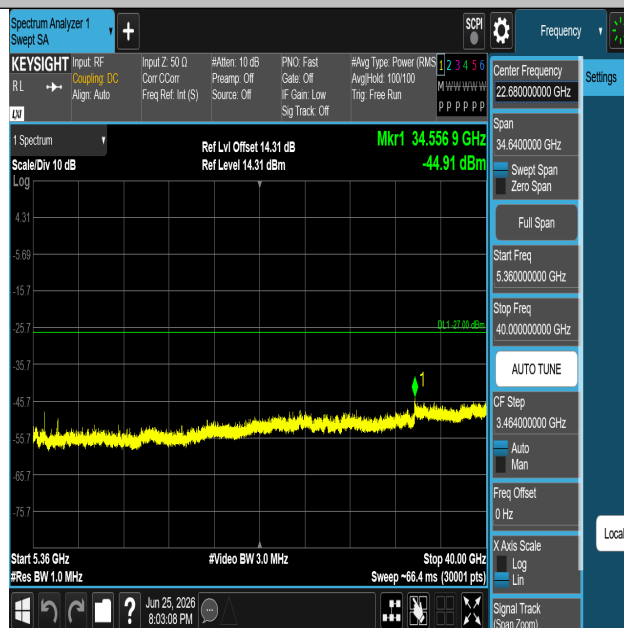
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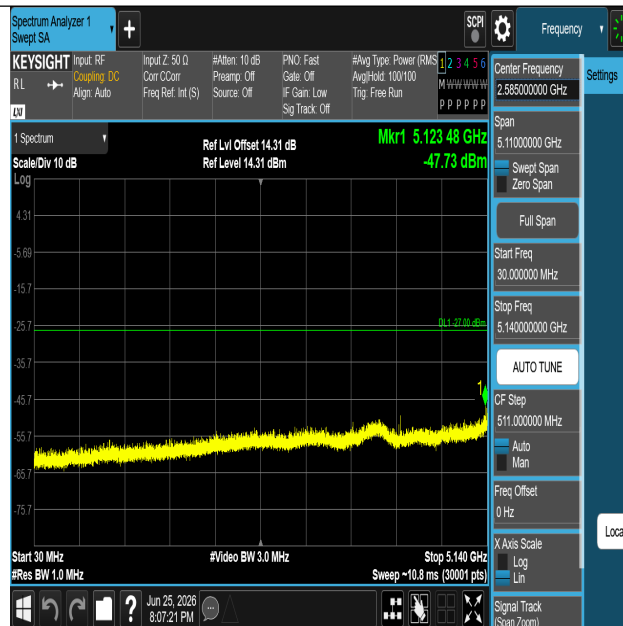
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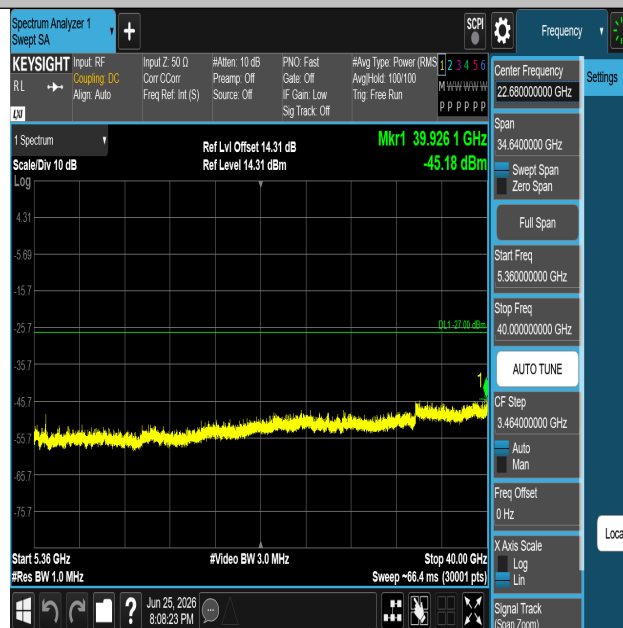
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11N20SISO-Ant1-5180-5360~40000-PASS



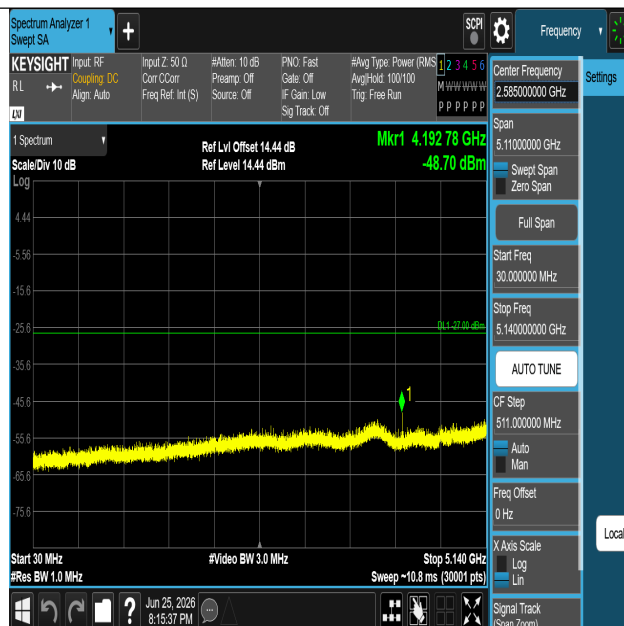
11N20SISO-Ant1-5200-30~5140-PASS



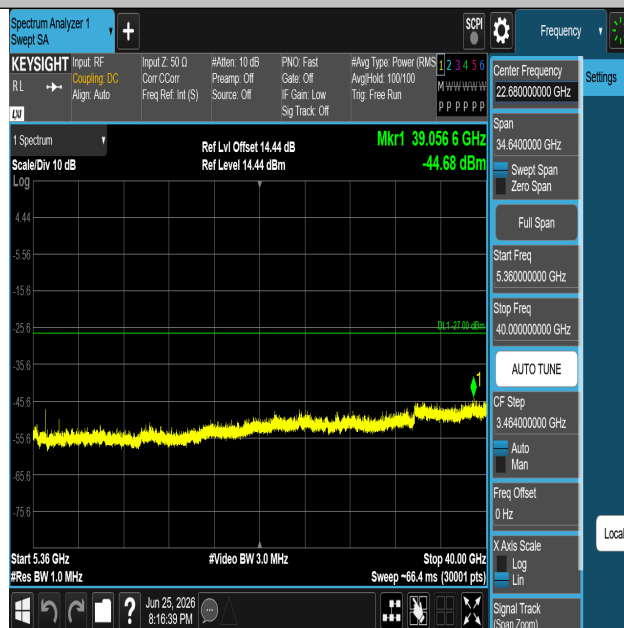
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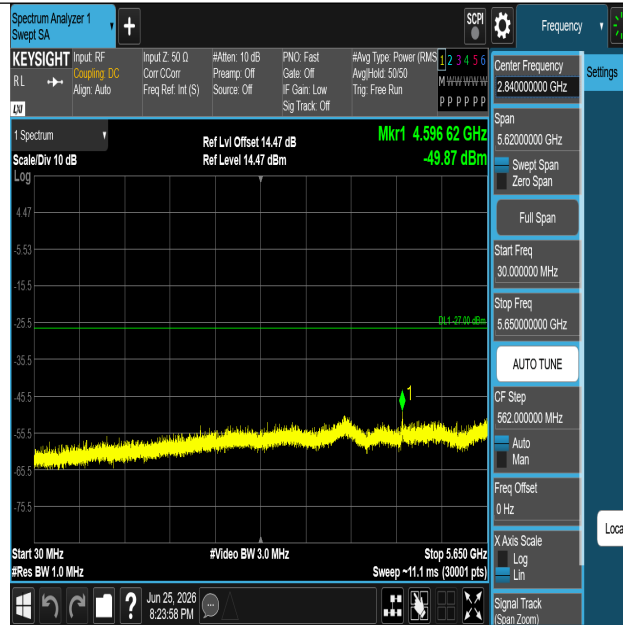
Report No.: PTC26052917601E-FC04



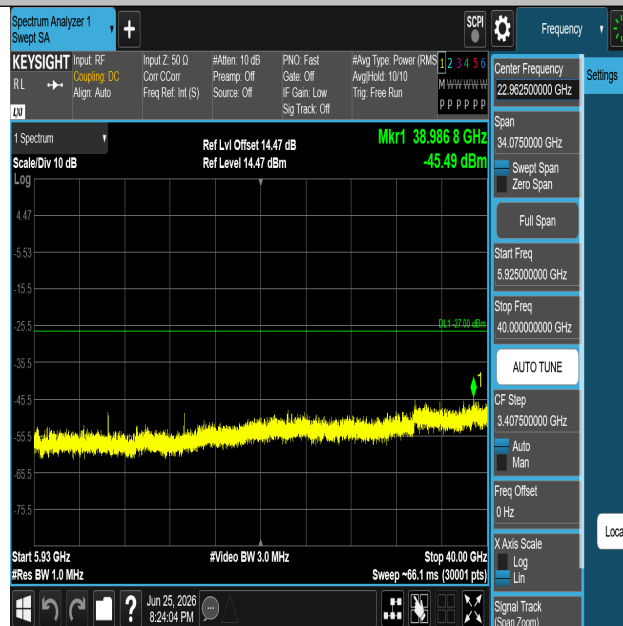
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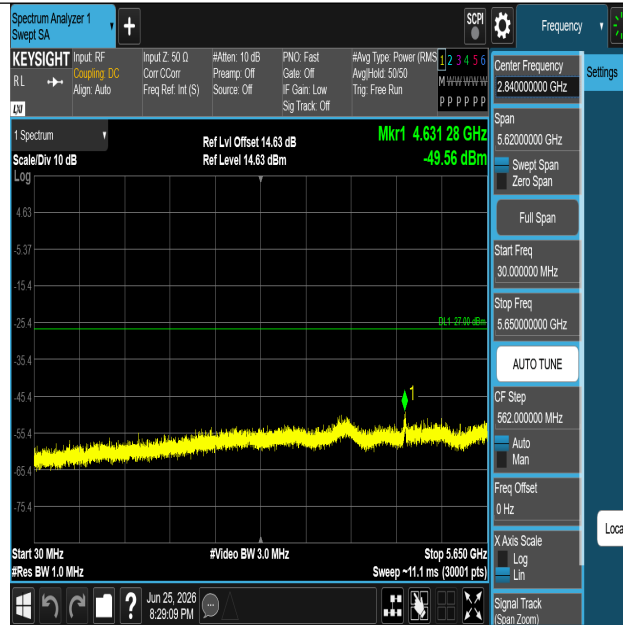
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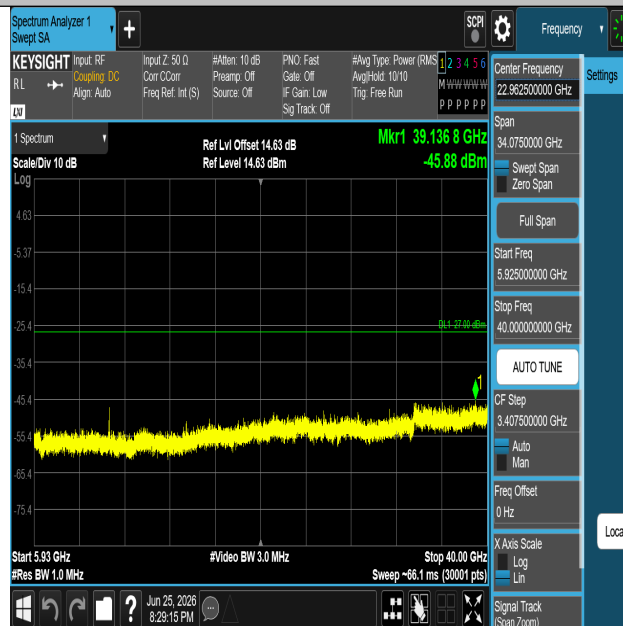
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11N20SISO-Ant1-5745-5925~40000-PASS



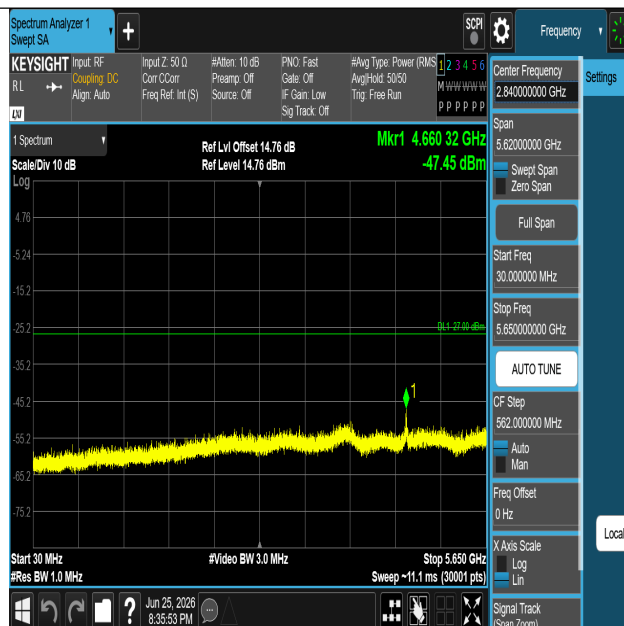
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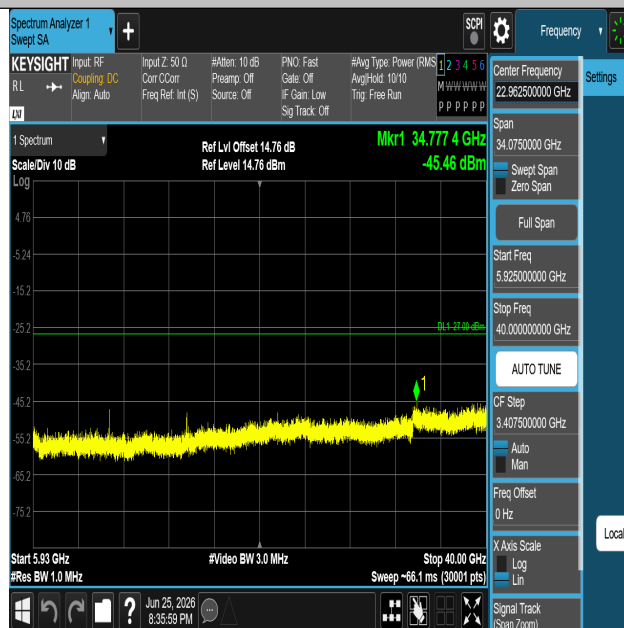
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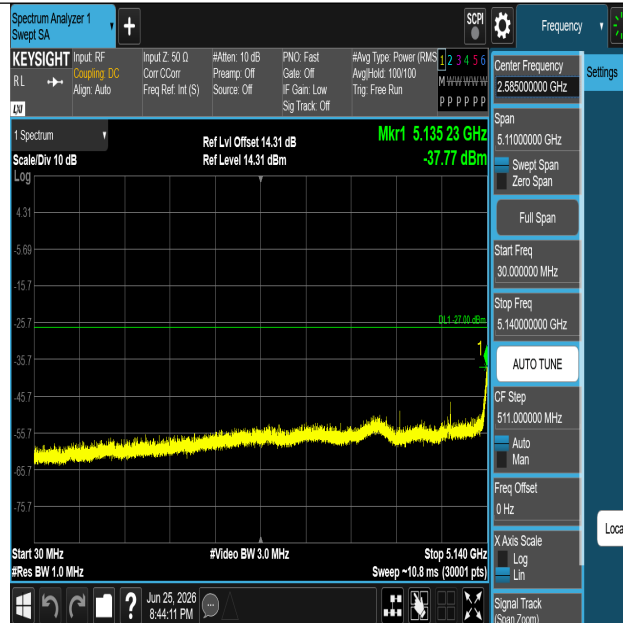
Report No.: PTC26052917601E-FC04



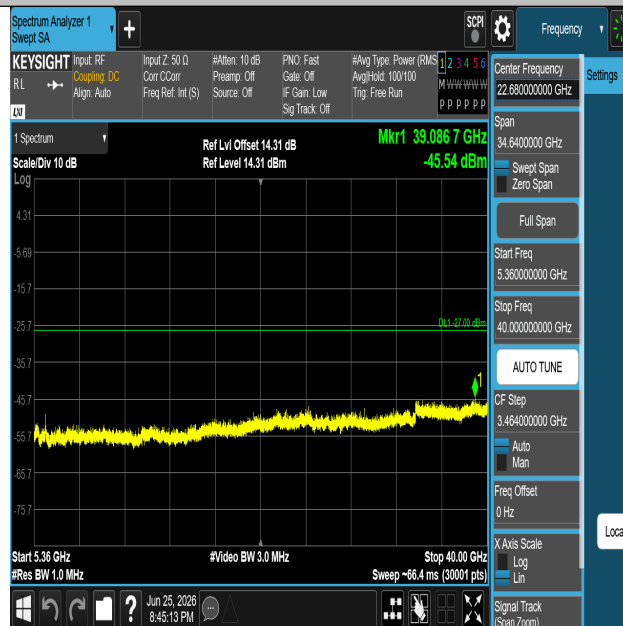
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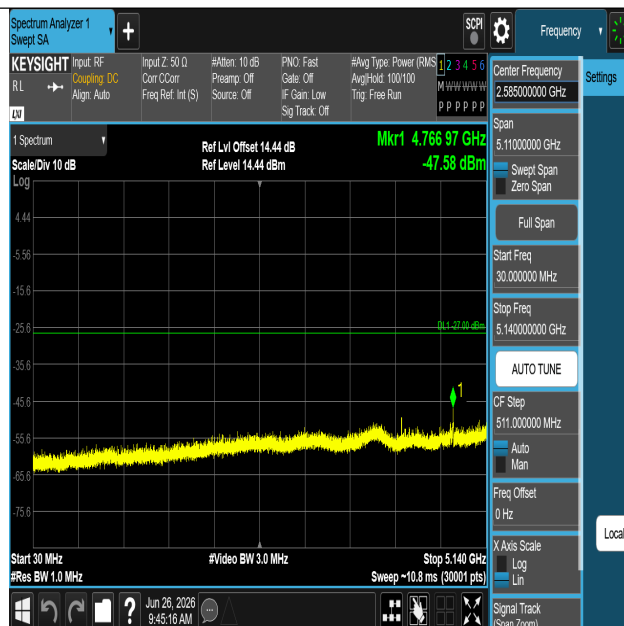
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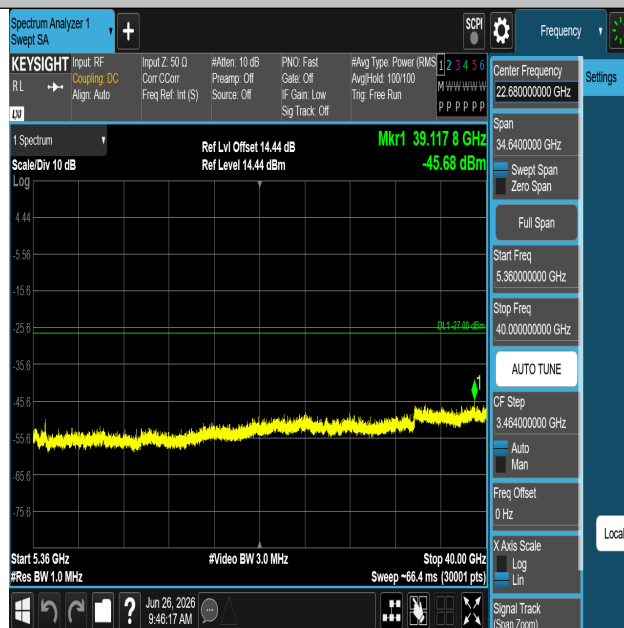
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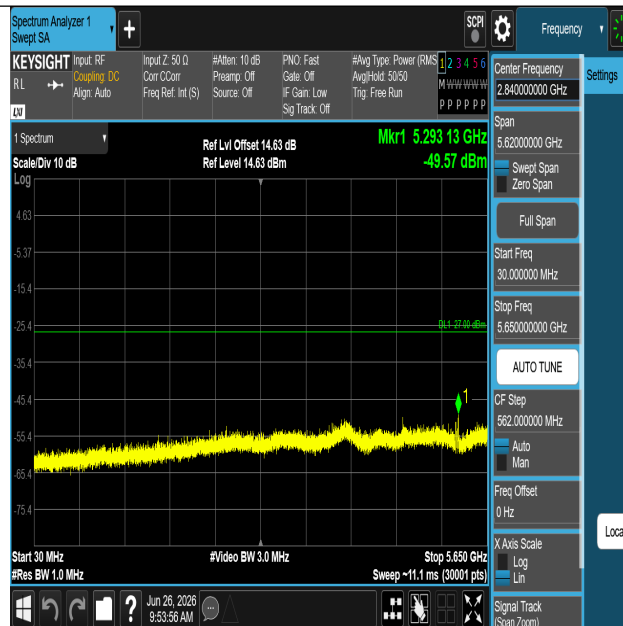
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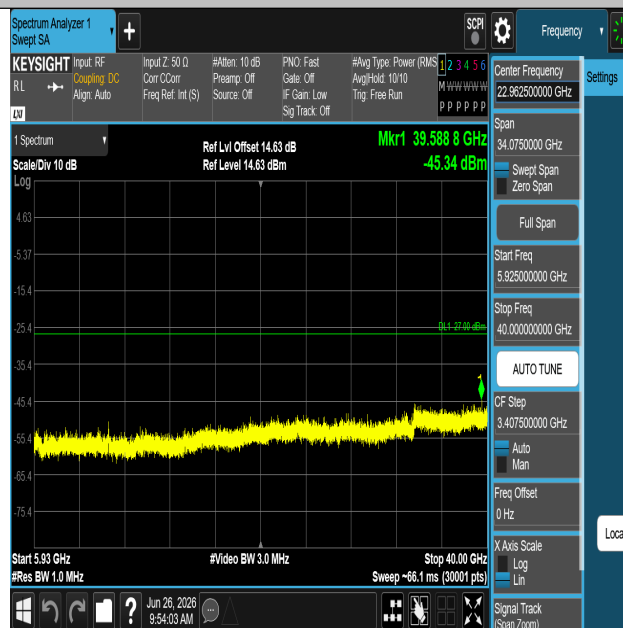
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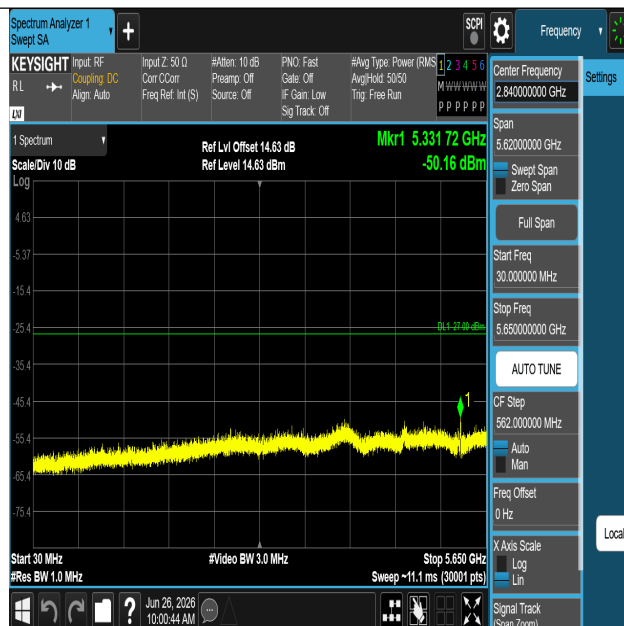
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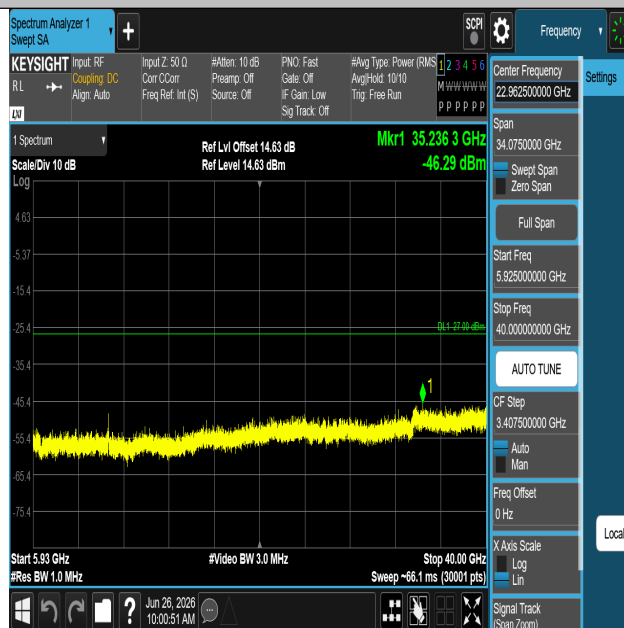
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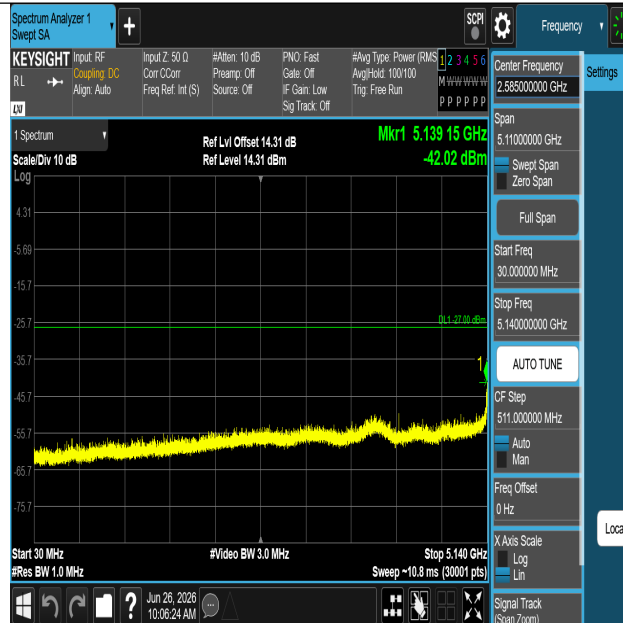
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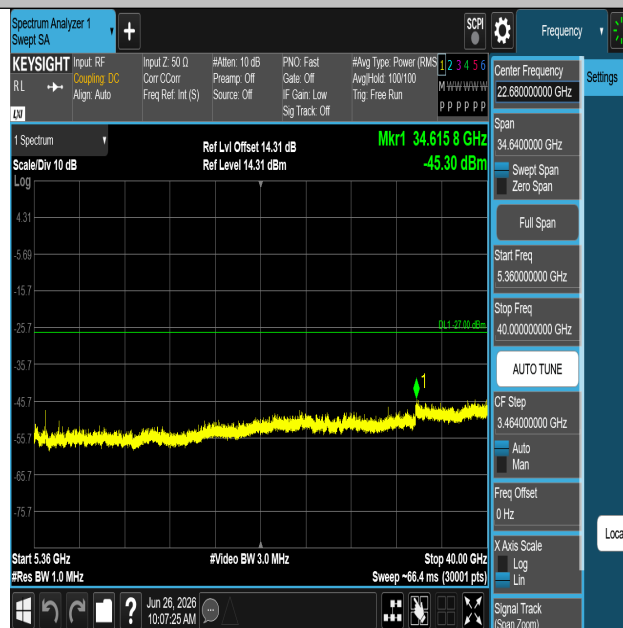
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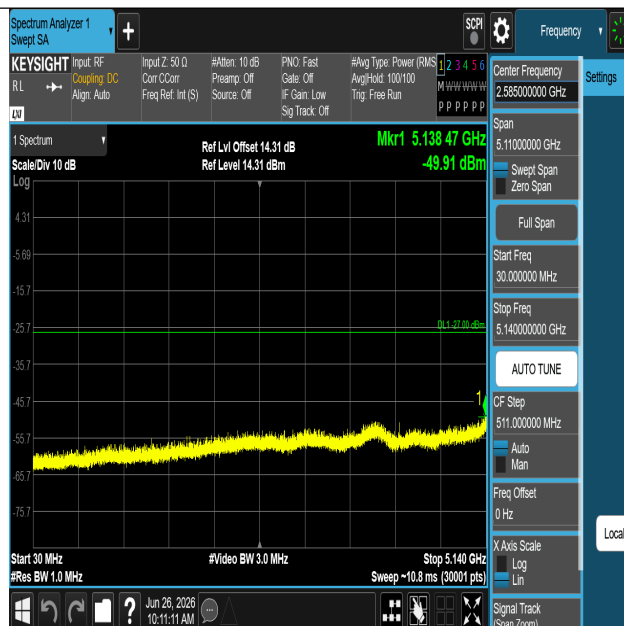
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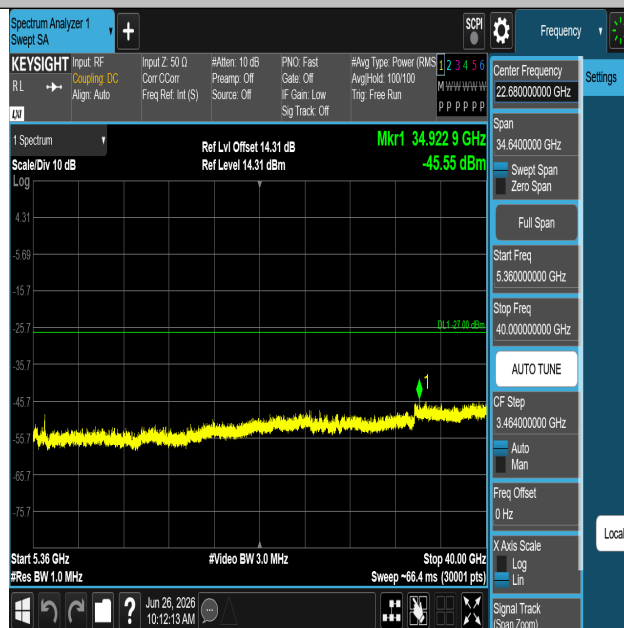
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Report No.: PTC26052917601E-FC04



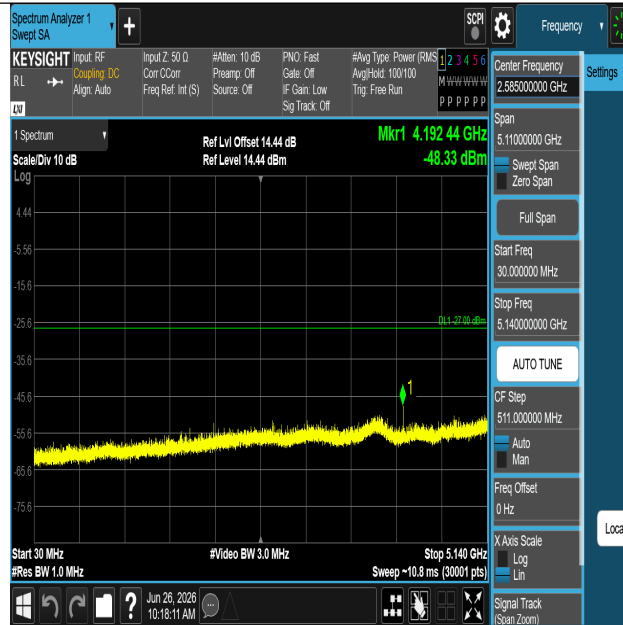
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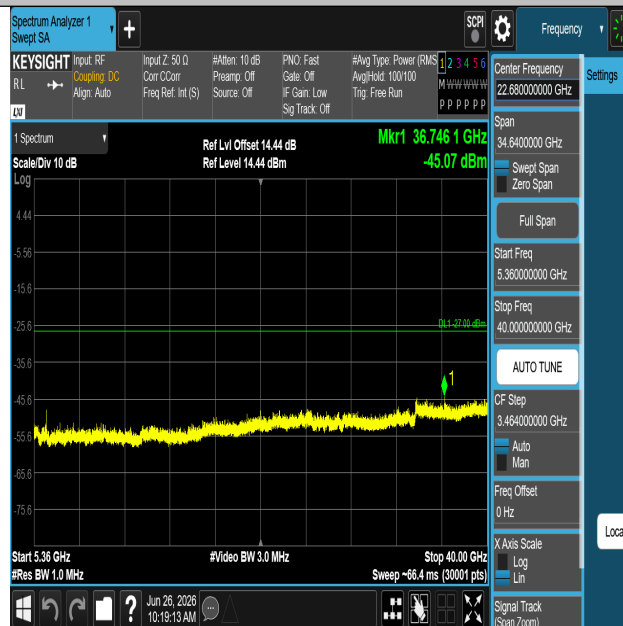
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Report No.: PTC26052917601E-FC04



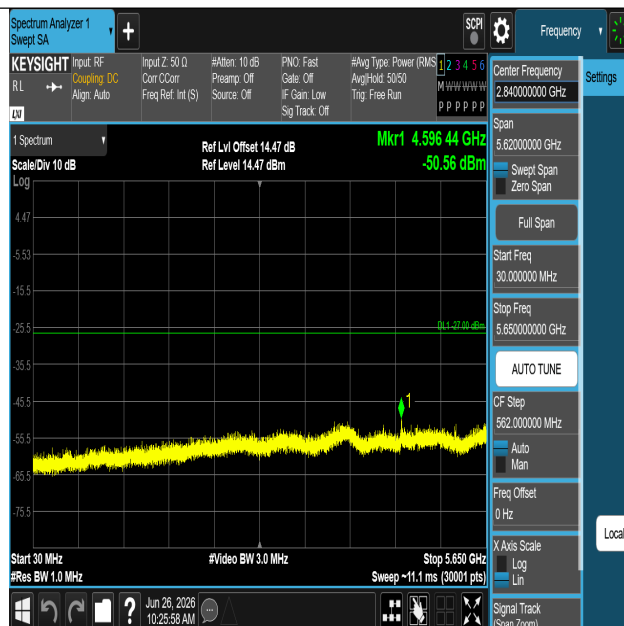
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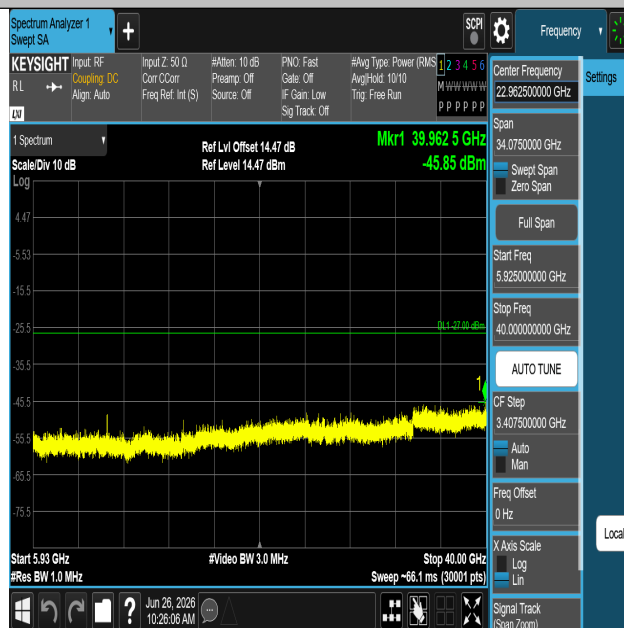
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Report No.: PTC26052917601E-FC04



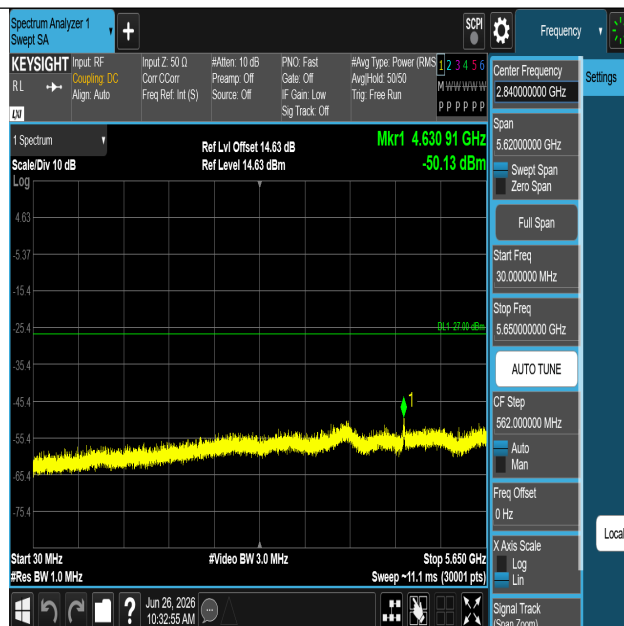
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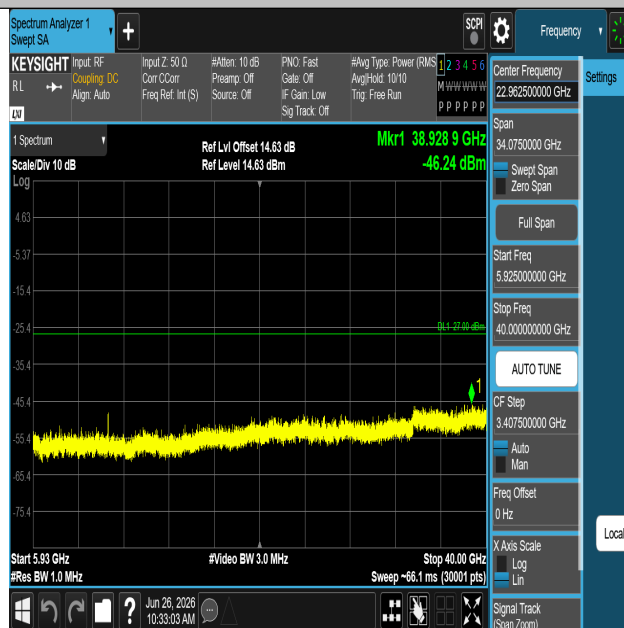
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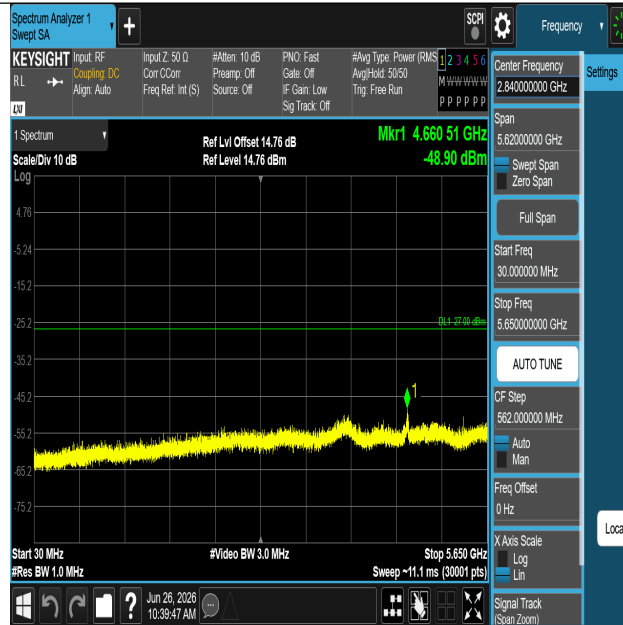
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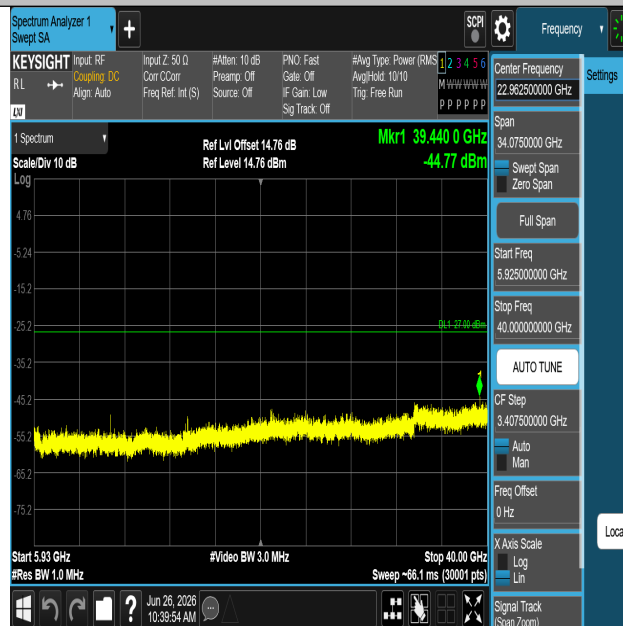
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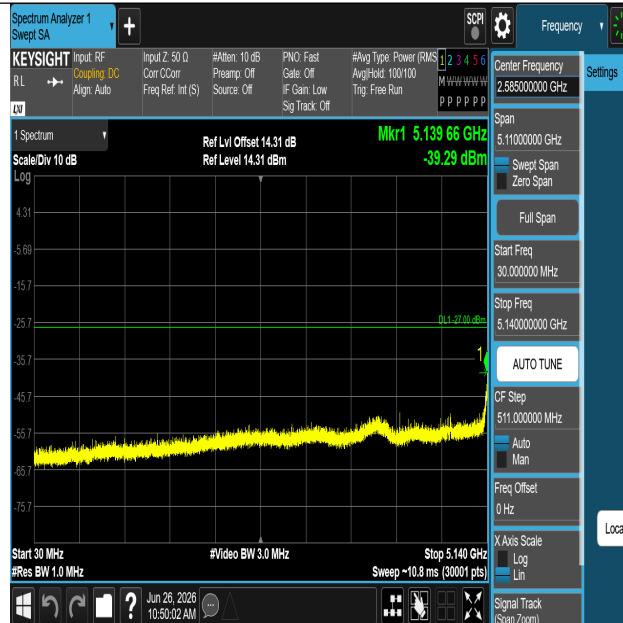
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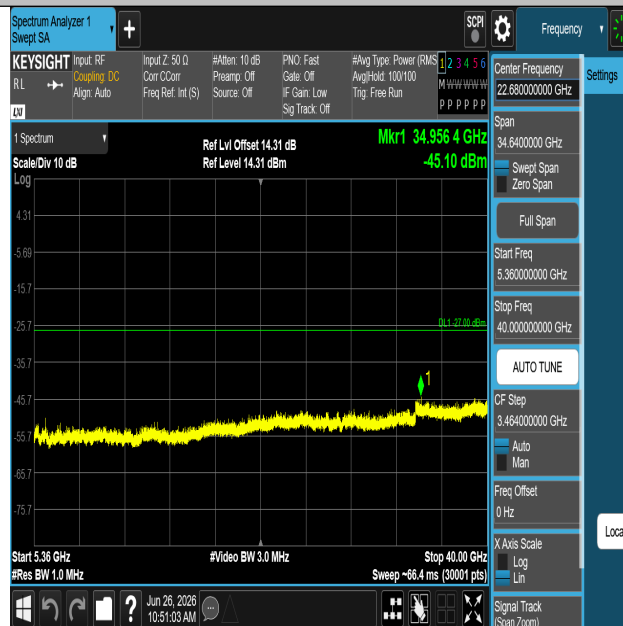
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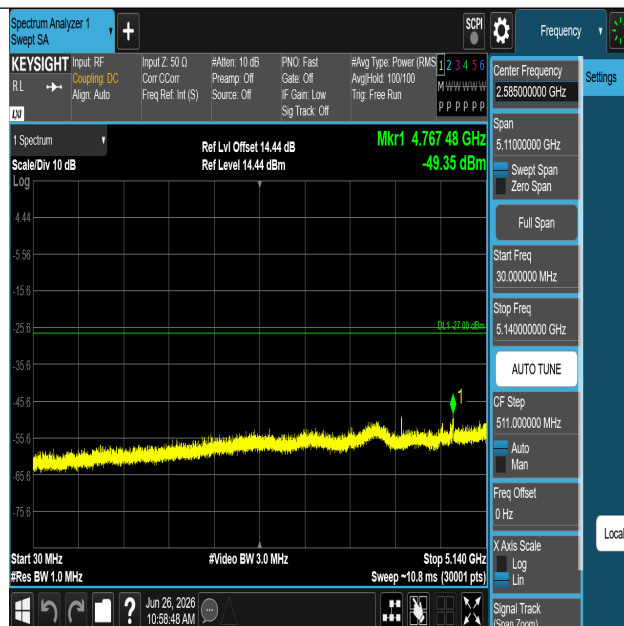
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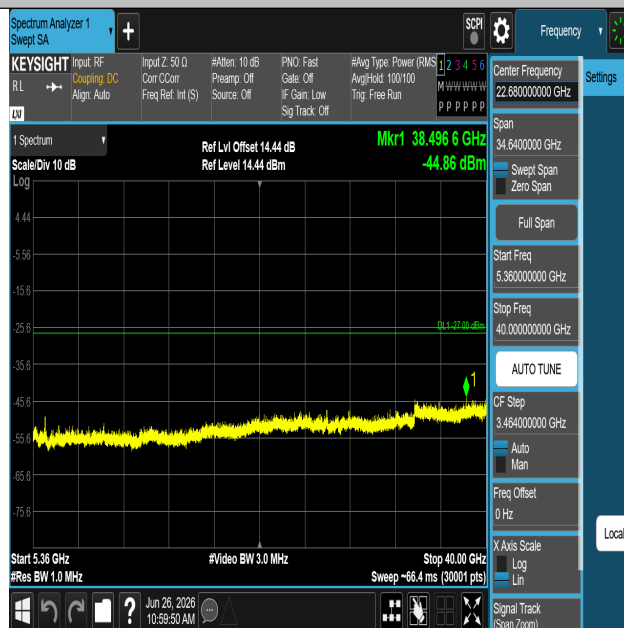
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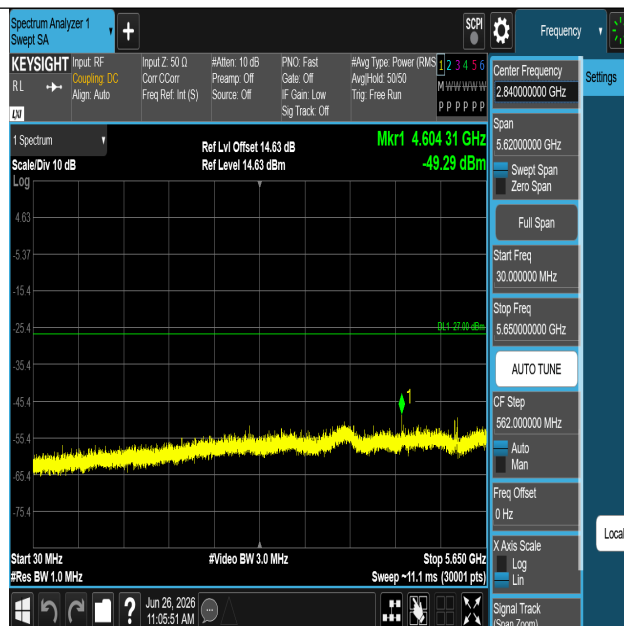
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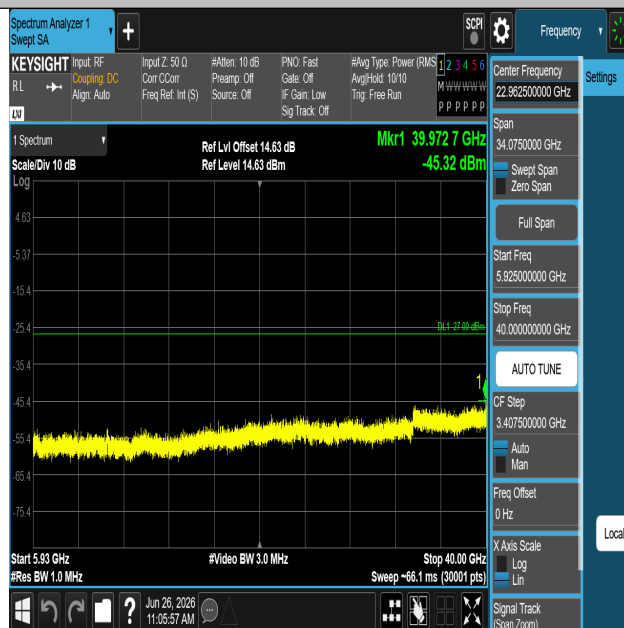
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Report No.: PTC26052917601E-FC04



11AC40SISO-Ant1-5755-30~5650-PASS



11AC40SISO-Ant1-5755-5925~40000-PASS