



FCC TEST REPORT

FCC ID: 2A2MQ-AINANNYA4

Product	:	Smart baby monitor
Model Name	:	Ainanny A4(Additional model refer to page 6)
Brand	:	N/A
Report No.	:	PTC26011000901E-FC02
Prepared for		
Hangzhou Arenti Technology Co., Ltd.		
4F,Building 4,No. 825,Ruquan Road,Changhe Street,Binjiang District,Hangzhou,Zhejiang,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 : Hangzhou Arenti Technology Co., Ltd.
Address : 4F,Building 4,No. 825,Ruquan Road,Changhe Street,Binjiang District, Hangzhou,Zhejiang,China
Manufacture's name : Hangzhou Arenti Technology Co., Ltd.
Address : 4F,Building 4,No. 825,Ruquan Road,Changhe Street,Binjiang District, Hangzhou,Zhejiang,China
Product name : Smart baby monitor
Model name : Alnanny A4(Additional model refer to page 6)
Standards : FCC CFR47 Part 15 Section 15.247
Test procedure : ANSI C63.10-2020
Test Date : Jan. 12, 2026 to Apr. 10, 2026
Date of Issue : Apr. 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



Contents

	Page
1 TEST RESULT CERTIFICATION	2
2 TEST SUMMARY	5
3 GENERAL INFORMATION	6
3.1 GENERAL DESCRIPTION OF E.U.T.....	6
3.2 CHANNEL LIST	7
3.3 TEST SITE.....	8
4 EQUIPMENT DURING TEST	9
4.1 EQUIPMENTS LIST.....	9
4.2 MEASUREMENT UNCERTAINTY.....	11
4.3 DESCRIPTION OF SUPPORT UNITS.....	12
5 CONDUCTED EMISSION.....	13
5.1 E.U.T. OPERATION.....	13
5.2 EUT SETUP	13
5.3 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION).....	14
5.4 MEASUREMENT PROCEDURE	14
5.5 CONDUCTED EMISSION LIMIT	14
5.6 MEASUREMENT DESCRIPTION.....	14
5.7 CONDUCTED EMISSION TEST RESULT	14
6 RADIATED SPURIOUS EMISSIONS	17
6.1 EUT OPERATION	17
6.2 TEST SETUP	18
6.3 SPECTRUM ANALYZER SETUP.....	19
6.4 TEST PROCEDURE.....	20
6.5 SUMMARY OF TEST RESULTS	21
7 CONDUCTED SPURIOUS EMISSION	28
7.1 TEST PROCEDURE.....	28
7.2 TEST SETUP	28
7.3 TEST RESULT	28
8 BAND EDGE MEASUREMENT.....	57



8.1 TEST PROCEDURE.....	57
8.2 TEST SETUP	57
8.3 TEST RESULT	57
9 6DB BANDWIDTH MEASUREMENT	64
9.1 TEST PROCEDURE.....	64
9.2 TEST SETUP	64
9.3 TEST RESULT	64
10 MAXIMUM CONDUCTED OUTPUT POWER	74
10.1 TEST PROCEDURE.....	74
10.2 TEST SETUP	74
10.3 TEST RESULT	74
11 POWER SPECTRAL DENSITY	75
11.1 TEST PROCEDURE.....	75
11.2 TEST SETUP	75
11.3 TEST RESULT	75
12 ANTENNA APPLICATION	86
12.1 ANTENNA REQUIREMENT	86
12.2 RESULT	86
13 TEST SETUP	87
14 EUT PHOTOS.....	89



2 Test Summary

Test Items	Test Requirement	Result
Conduct Emission	15.207	PASS
Radiated Spurious Emissions	15.205(a) 15.209 15.247(d)	PASS
Conducted Spurious Emission	15.247(d)	PASS
Band edge	15.247(d) 15.205(a)	PASS
6dB Bandwidth	15.247(a)(2)	PASS
Maximum Peak Output Power	15.247(b)(3)	PASS
Power Spectral Density	15.247(e)	PASS
Antenna Requirement	15.203	PASS
Remark: N/A: Not Applicable		



3 General Information

3.1 General Description of E.U.T.

Product Name	:	Smart baby monitor
Model Name	:	Alnanny A4
Additional model	:	Alnanny A4 Kit,Alnanny A4 Kit Plus,Alnanny A4-2Cam Kit,Alnanny A4-2Cam Kit Plus,Alnanny A5 Kit,Alnanny A5,Alnanny A5Pro,Alnanny A5-2Cam Kit,Alnanny A5Pro Kit,Alnanny A5Pro-2Cam KitAlnanny B3, Alnanny B3 Kit,Alnanny C3,Alnanny C3 Kit,Alnanny B2,Alnanny C2,Baby 3Q,Baby 3F, Alnanny Kit Plus,Alnanny-2Cam Kit,Alnanny-2Cam Kit Plus, Alnanny-Cam
Specification	:	802.11b/g/n HT20/HT40/ax20/ax40
Operating frequency	:	2412-2462MHz for 802.11b/g/ n(HT20)/ax20 2422-2452MHz for 802.11 n(HT40)/ax40
Numbers of Channel	:	11 channels for 802.11b/g/ n(HT20)/ax20 7 channels for 802.11n(HT40)/ax40
Antenna Type	:	FPC Antenna
Antenna Gain	:	3.37 dBi
Type of Modulation	:	DSSS with DBPSK/DQPSK/CCK for 802.11b; OFDM with BPSK/QPSK/16QAM/64QAM for 802.11g/n/ax;
Power supply	:	Input: DC 5V~1A
Hardware Version	:	BABY3T-T5MB-GC5-REV2_2
Software Version	:	N/A
Test sample No.	:	PTC26011000901E-1/2, PTC26011000901E-2/2



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 (802.11b: 1 Mbps; 802.11g: 6 Mbps; 802.11n (HT20): 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 802.11 b/g/n (HT20/HT40)/ax20/ax40

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	5	2432	9	2452
2	2417	6	2437	10	2457
3	2422	7	2442	11	2462
4	2427	8	2447		

The maximum duty cycle as following table:

Test Mode	Duty Cycle(%)
802.11b	100%
802.11g	100%
802.11n(HT20)/ax20	100%
802.11n(HT40)/ax40	100%



Report No.: PTC26011000901E-FC02

3.3Test 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	N9020A	SER MY5111038	10Hz-26.5GHz	Aug. 14, 2025	1 Year
Coaxial Cable	CDS	79254	46107086	10Hz-30GHz	Aug. 14, 2025	1 Year
Power Meter	Anritsu	ML2495A	0949003	300MHz-40GHz	Aug. 14, 2025	1 Year
Power Sensor	Anritsu	MA2411B	0917017	300MHz-40GHz	Aug. 14, 2025	1 Year
DC power Supply	Agilent	E3642A	MY52420017	0-8V,5A/0-20 ,2.5A	Aug. 14, 2025	1 Year
Test S/W	Tonscend	JS1120-3	/	/	/	/

Remark: The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.

Name of Equipment	Manufacturer	Model	Serial No.	Characteristics	Last Calibration	Calibration Interval
EMI Test Receiver	Rohde&Schwarz	ESPI7	101671	9KHz-7GHz	Aug. 14, 2025	1 Year
Loop Antenna	Schwarzbeck	FMZB 1519	192	9 KHz -30MHz	Nov. 28, 2025	1 Year
Bilog Antenna	SCHWARZBECK	VULB9160	9160-3355	25MHz-2GHz	Sep. 10, 2025	1 Year
Preamplifier (low frequency)	SCHWARZBECK	BBV 9475	9745-0013	9KHz-1GHz	Mar. 21, 2025	1 Year
Preamplifier (low frequency)	SCHWARZBECK	BBV 9475	9745-0013	9KHz-1GHz	Mar. 21, 2026	1 Year
Cable	IMRO	AK-9515E(9m)	Cable-L	9KHz-3GHz	Aug. 14, 2025	1 Year
Spectrum Analyzer	Rohde&Schwarz	FSV40	6625-01-588-5515	9KHz-40GHz	Aug. 14, 2025	1 Year
Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1246	1GHz-18GHz	Dec. 12, 2025	1 Year



Report No.: PTC26011000901E-FC02

Power Amplifier	ZHINAN	ZN3380C	15002	1GHz-26.5GHz	Aug. 14, 2025	1 Year
Horn Antenna	SCHWARZBECK	BBHA 9170	9170-1066	15GHz-40GHz	Jul. 24, 2025	1 Year
Amplifier	SCHWARZBECK	BBV 9721	9721-205	18GHz-40GHz	Jul. 25, 2025	1 Year
Cable	H+S	CBL-26	N/A	1GHz-26.5GHz	Aug. 14, 2025	1 Year
RF Cable	R&S	R204	R21X	1GHz-40GHz	Aug. 14, 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	ESCI3	101417	9KHz-3GHz	Aug. 14, 2025	1 Year
Artificial Mains Network	Rohde&Schwarz	ENV216	102453	9KHz-300MHz	Oct. 30, 2025	1 Year
Artificial Mains Network	Rohde&Schwarz	ENV216	101342	9KHz-300MHz	Oct. 30, 2025	1 Year
Limiter	R&S	ESH3-Z2	0357.8810.54-102808-NB	0Hz-30MHz	Aug. 14, 2025	1 Year
RF Switch	DIAMOND ANTENNA	CX-210	/	0.09MHz-6GHz	Mar. 21,2025	1 Year
RF Switch	DIAMOND ANTENNA	CX-210	/	0.09MHz-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~25GHz)	$\pm 4.74\text{dB}$



Report No.: PTC26011000901E-FC02

4.3 Description of Support Units

Equipment	Model No.	Manufacturer	Series No.	Parameter
Adapter	DCT06W050100US-C1	Zhuzhou Dachuan Electronic Technology Co., Ltd	/	Input: 100-240V~ 50/60Hz 0.2A Output: 5.0V  1.0A 5.0W
Adapter	DCT07W050100US-C1	Zhuzhou Dachuan Electronic Technology Co., Ltd	/	Input: 100-240V~ 50/60Hz 0.25A Output: 5.0V  1.0A 5.0W

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

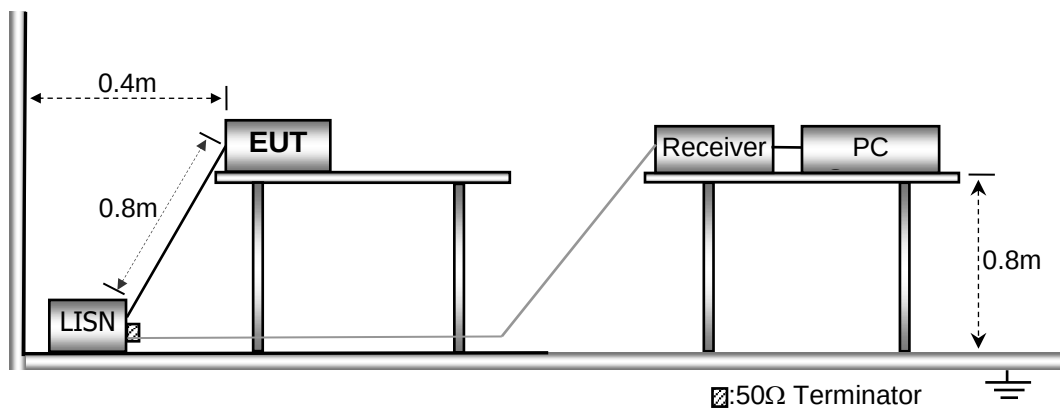
5.1E.U.T. Operation

Operating Environment :

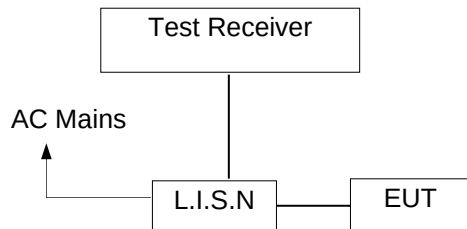
Temperature	:	23.9 °C
Humidity	:	51.4 % RH
Atmospheric Pressure	:	101.21kPa

5.2EUT 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

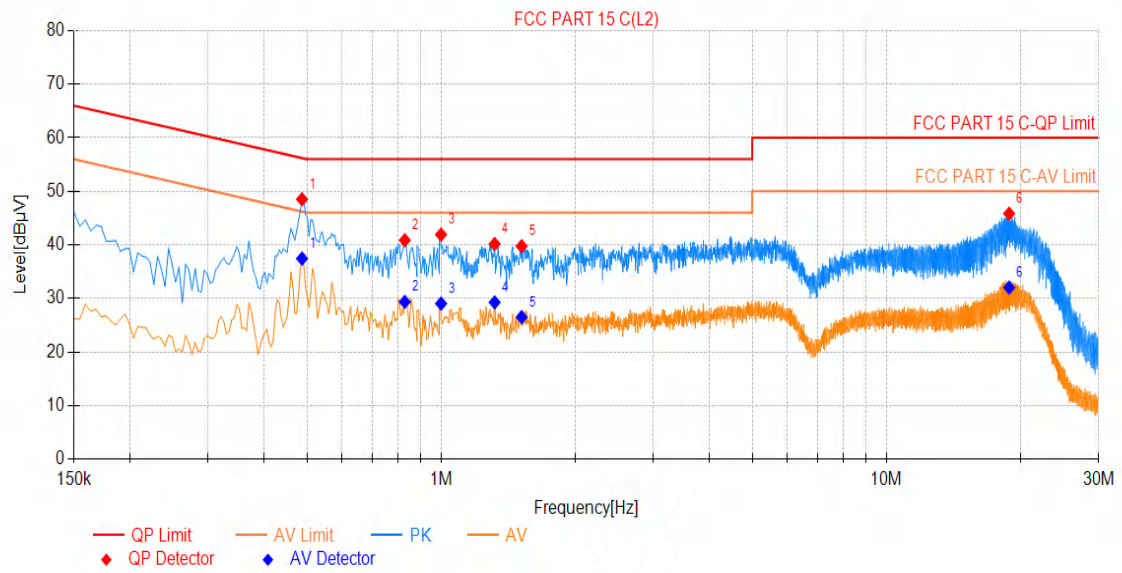
Pass.

During the test, the 120Vac/60Hz and 240Vac/60Hz power supplies were scanned in advance, and it was found that (Adapter: DCT07W050100US-C1+120Vac/60Hz, TX 802.11b Low Channel) was a poor mode, and the report only reflected the poor mode.

Please refer to the following pages.



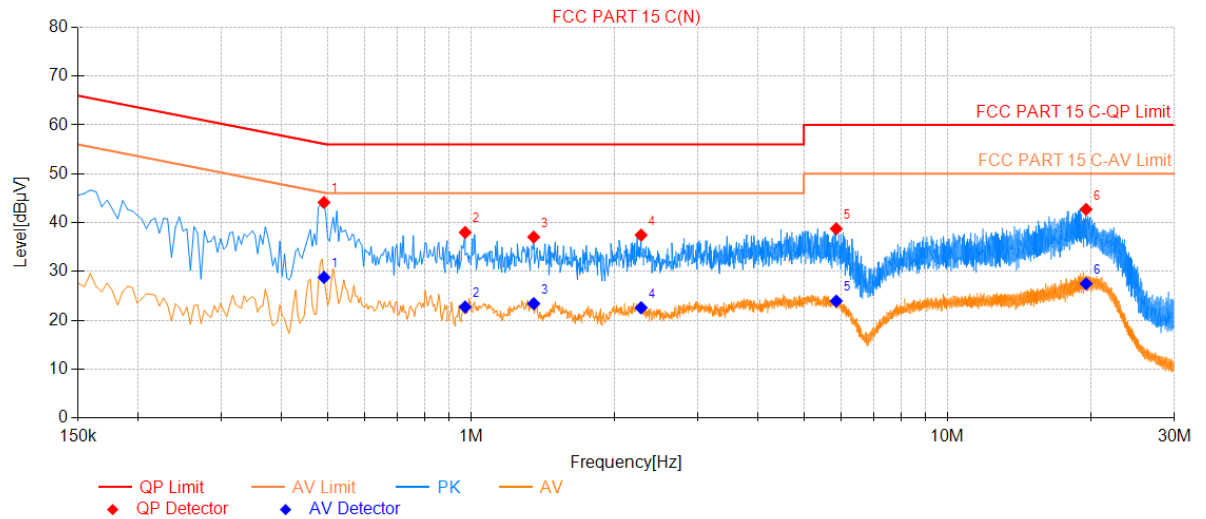
Line- AC 120V/60Hz



Final Data List

NO.	Freq. [MHz]	QP Reading [dBμV]	Factor [dB]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Reading [dBμV]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Verdict
1	0.488	37.52	9.81	47.33	56.21	8.88	25.06	34.87	46.21	11.34	PASS
2	0.771	31.23	9.82	41.05	56.00	14.95	19.02	28.84	46.00	17.16	PASS
3	0.987	33.14	9.83	42.97	56.00	13.03	18.61	28.44	46.00	17.56	PASS
4	1.194	30.57	9.83	40.40	56.00	15.60	17.36	27.19	46.00	18.81	PASS
5	1.451	30.79	9.83	40.62	56.00	15.38	15.96	25.79	46.00	20.21	PASS
6	2.306	30.60	9.82	40.42	56.00	15.58	17.48	27.30	46.00	18.70	PASS

Neutral-AC 120V/60Hz



Final Data List

NO.	Freq. [MHz]	QP Reading [dBμV]	Factor [dB]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Reading [dBμV]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Verdict
1	0.492	34.33	9.81	44.14	56.13	11.99	18.96	28.77	46.13	17.36	PASS
2	0.974	28.16	9.83	37.99	56.00	18.01	12.88	22.71	46.00	23.29	PASS
3	1.356	27.21	9.83	37.04	56.00	18.96	13.57	23.40	46.00	22.60	PASS
4	2.279	27.62	9.82	37.44	56.00	18.56	12.74	22.56	46.00	23.44	PASS
5	5.852	28.81	9.93	38.74	60.00	21.26	13.99	23.92	50.00	26.08	PASS
6	19.572	32.38	10.34	42.72	60.00	17.28	17.14	27.48	50.00	22.52	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 & 15.247
 Test Method : ANSI C63.10-2020
 Test Result : PASS
 Measurement Distance : 3m
 Limit : See the follow 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	$20\log^{(500)}$

6.1EUT Operation

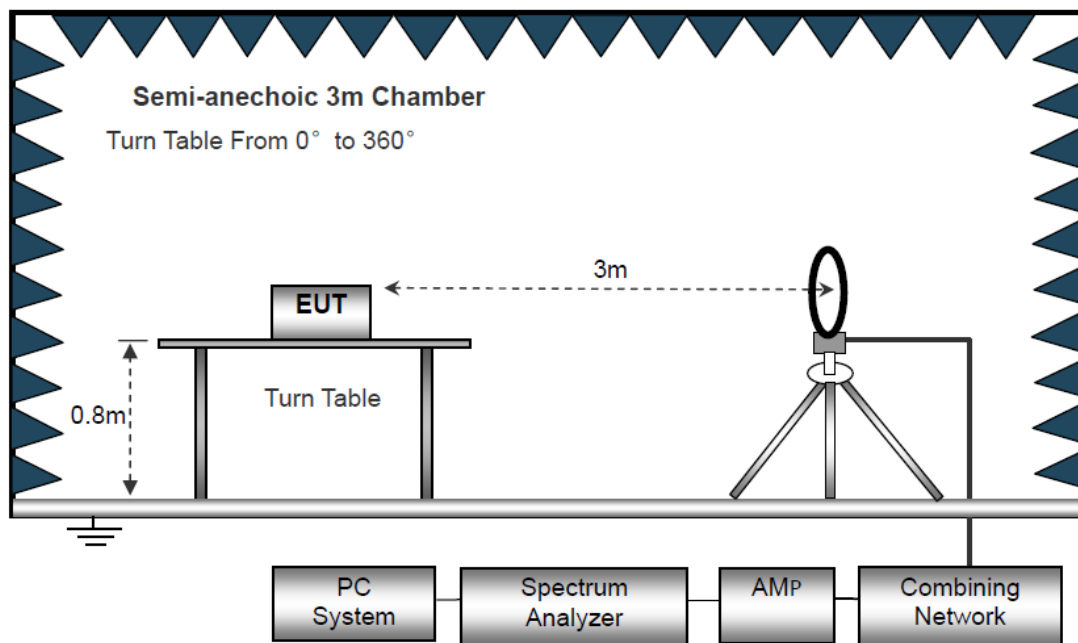
Operating Environment :

Temperature: : 24.5 °C
 Humidity: : 52 % RH
 Atmospheric Pressure: : 101.3kPa
 Test Voltage : AC 120V 60Hz

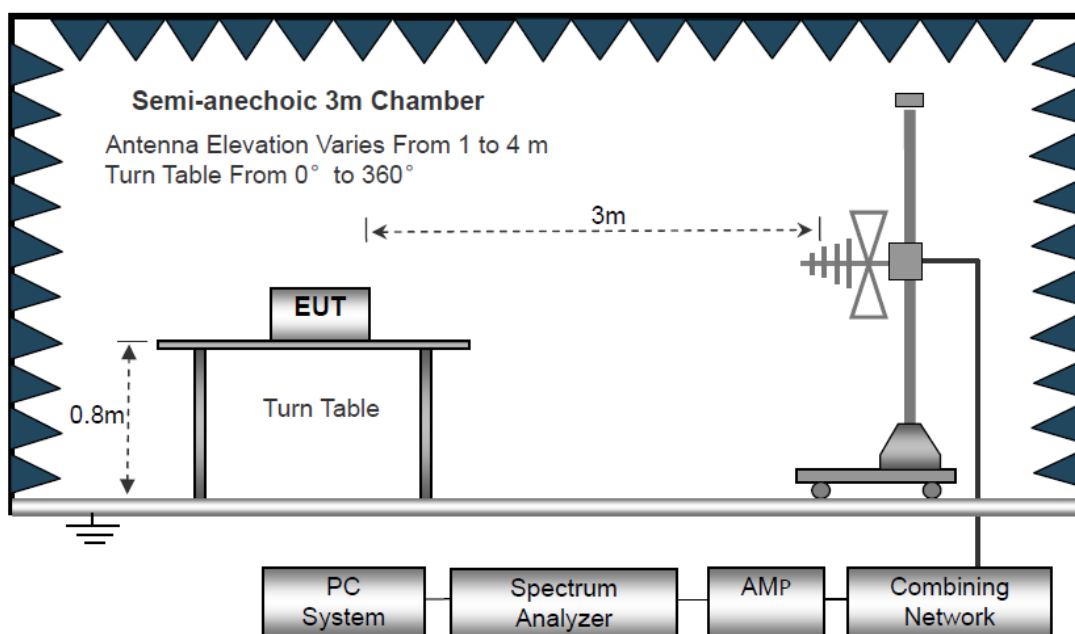
6.2 Test Setup

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

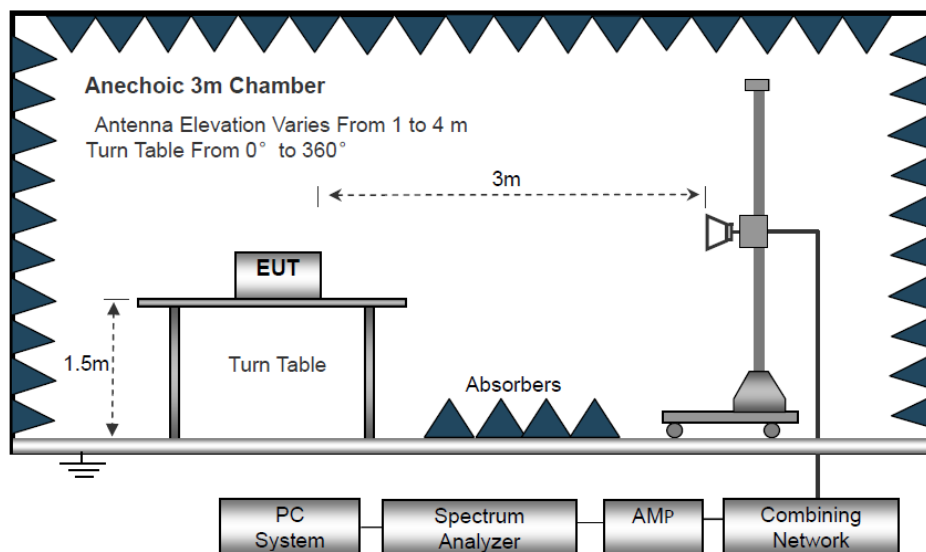
The test setup for emission measurement below 30MHz



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 was placed on a styrofoam table which 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.

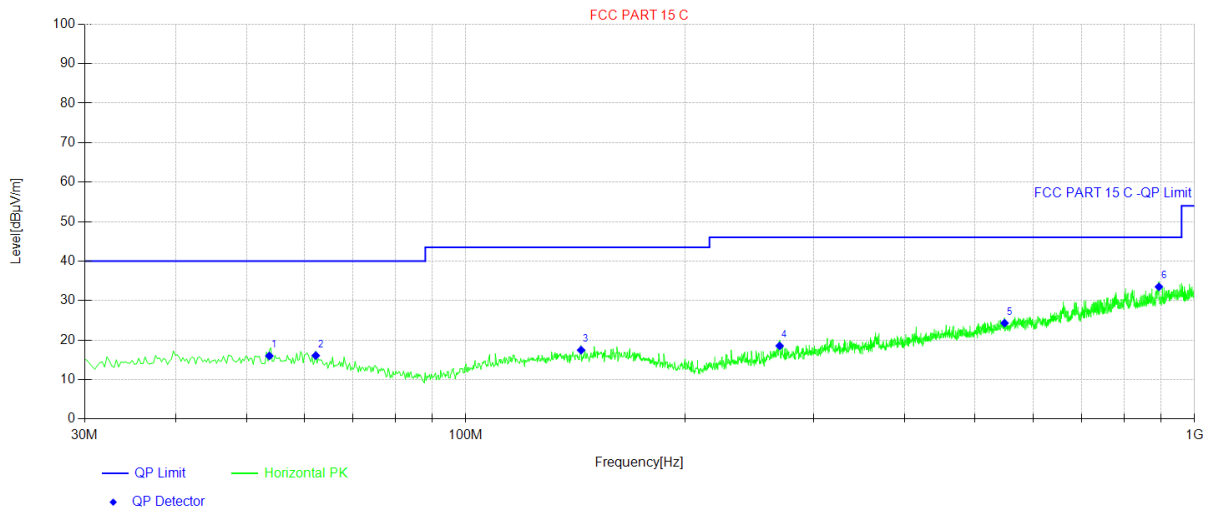
Test Frequency: 30MHz ~ 1GHz

All the modulation modes were tested the data of the worst mode (Adapter: DCT07W050100US-C1+TX 802.11b Low Channel) 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

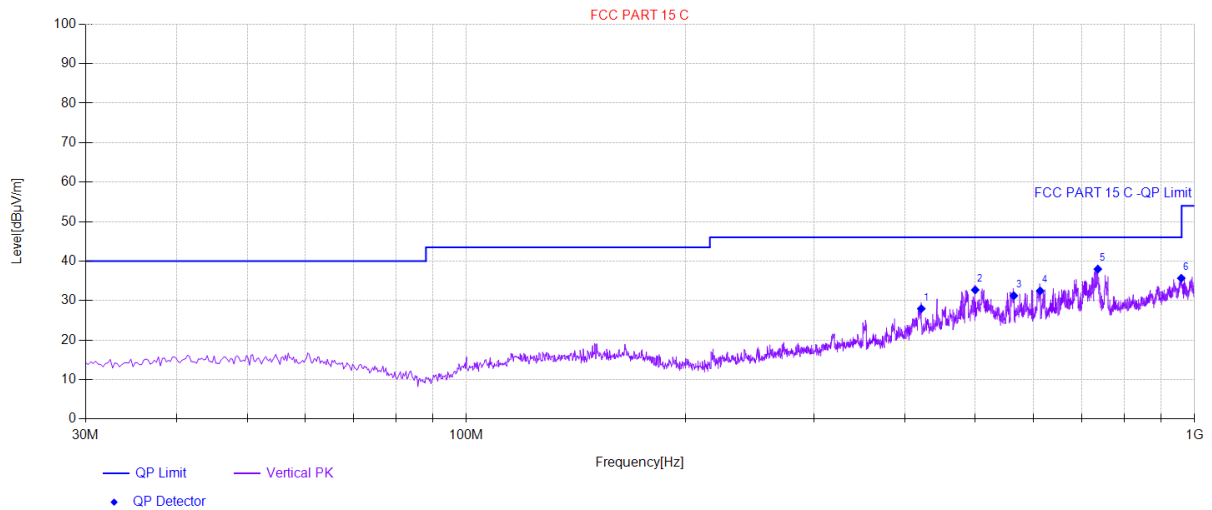


Final Data List[QP]								
NO.	Freq. [MHz]	QP Reading [dBμV/m]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Polarity	Verdict
1	53.77	26.94	-10.94	16.00	40.00	24.00	Horizontal	PASS
2	62.25	27.82	-11.74	16.08	40.00	23.92	Horizontal	PASS
3	143.98	27.3	-9.84	17.46	43.50	26.04	Horizontal	PASS
4	269.59	28.11	-9.57	18.54	46.00	27.46	Horizontal	PASS
5	548.71	26.92	-2.61	24.31	46.00	21.69	Horizontal	PASS
6	893.54	29.38	4.12	33.50	46.00	12.50	Horizontal	PASS

Remark:1. QP Value= QP Reading+ Factor;
 2.QP Margin= QP Limit- QP Value;
 3.Factor= ANT Factor+ Cable Loss -AMP Factor.



Antenna Polarization: Vertical



Final Data List[QP]								
NO.	Freq. [MHz]	QP Reading [dBμV/m]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Polarity	Verdict
1	421.40	34.06	-6.11	27.95	46.00	18.05	Vertical	PASS
2	499.72	36.97	-4.26	32.71	46.00	13.29	Vertical	PASS
3	564.71	33.58	-2.34	31.24	46.00	14.76	Vertical	PASS
4	613.70	34.33	-1.87	32.46	46.00	13.54	Vertical	PASS
5	736.40	37.67	0.31	37.98	46.00	8.02	Vertical	PASS
6	958.78	30.28	5.38	35.66	46.00	10.34	Vertical	PASS

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



Test Frequency: From 1GHz to 18GHz

Worst case Adapter: DCT07W050100US-C1+802.11b

Test Mode: 2412					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.
4824	45.86	32.35	4.12	28.44	53.89	74	-20.11	V
7236	38.28	36.08	6.3	27.74	52.92	74	-21.08	V
9648	35.70	38.25	7.91	24.65	57.21	74	-16.79	V
4824	43.34	32.35	4.12	28.44	51.37	74	-22.63	H
7236	38.24	36.08	6.3	27.74	52.88	74	-21.12	H
9648	34.43	38.25	7.91	24.65	55.94	74	-18.06	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.
4824	31.42	32.35	4.12	28.44	39.45	54	-14.55	V
7236	23.98	36.08	6.3	27.74	38.62	54	-15.38	V
9648	20.93	38.25	7.91	24.65	42.44	54	-11.56	V
4824	30.98	32.35	4.12	28.44	39.01	54	-14.99	H
7236	25.50	36.08	6.3	27.74	40.14	54	-13.86	H
9648	20.60	38.25	7.91	24.65	42.11	54	-11.89	H



Worst case Adapter: DCT07W050100US-C1+802.11b

Test Mode: 2437					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.
4874	47.38	32.35	4.12	28.44	55.41	74	-18.59	V
7311	38.28	36.08	6.3	27.74	52.92	74	-21.08	V
9748	35.71	38.25	7.91	24.65	57.22	74	-16.78	V
4874	43.39	32.35	4.12	28.44	51.42	74	-22.58	H
7311	37.43	36.08	6.3	27.74	52.07	74	-21.93	H
9748	33.88	38.25	7.91	24.65	55.39	74	-18.61	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.
4874	31.80	32.35	4.12	28.44	39.83	54	-14.17	V
7311	24.04	36.08	6.3	27.74	38.68	54	-15.32	V
9748	20.08	38.25	7.91	24.65	41.59	54	-12.41	V
4874	30.13	32.35	4.12	28.44	38.16	54	-15.84	H
7311	25.18	36.08	6.3	27.74	39.82	54	-14.18	H
9748	21.71	38.25	7.91	24.65	43.22	54	-10.78	H



Worst case Adapter: DCT07W050100US-C1+802.11b

Test Mode: 2462					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.
4924	46.28	32.41	4.14	28.42	54.41	74	-19.59	V
7386	38.83	36.15	6.36	27.68	53.66	74	-20.34	V
9848	35.37	38.35	7.97	24.33	57.36	74	-16.64	V
4924	43.80	32.41	4.14	28.42	51.93	74	-22.07	H
7386	38.68	36.15	6.36	27.68	53.51	74	-20.49	H
9848	34.99	38.35	7.97	24.33	56.98	74	-17.02	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.
4924	32.26	32.41	4.14	28.42	40.39	54	-13.61	V
7386	24.93	36.15	6.36	27.68	39.76	54	-14.24	V
9848	20.05	38.35	7.97	24.33	42.04	54	-11.96	V
4924	30.21	32.41	4.14	28.42	38.34	54	-15.66	H
7386	24.68	36.15	6.36	27.68	39.51	54	-14.49	H
9848	21.42	38.35	7.97	24.33	43.41	54	-10.59	H

Note:

1. The testing has been conformed to $10 \times 2462 \text{ MHz} = 24620 \text{ MHz}$.
 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.
- Note: All modes have been tested. Only the worst mode(TM1) is recorded in the report.



Spurious Emission in Restricted Band 2310-2390MHz and 2483.5-2500MHz

Adapter: DCT07W050100US-C1+2.4G WiFi (802.11b/g/n/ax)mode have been tested, and the worst result(802.11b) was report as below

Test Mode: Worst case 802.11b Low Channel 2412MHz

Test Mode: 802.11b Low Channel 2412MHz									Test Value
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over (dB)	Polarity H/V	
2310	47.91	28.67	6.72	37.26	46.04	74	-27.96	H	Peak
2390	59.80	28.08	6.81	37.12	57.57	74	-16.43	V	
2310	47.57	28.67	6.72	37.26	45.70	74	-28.30	H	
2390	55.51	28.08	6.81	37.12	53.28	74	-20.72	V	
2310	40.96	28.67	6.72	37.26	39.09	54	-14.91	H	Average
2390	43.44	28.08	6.81	37.12	41.21	54	-12.79	V	
2310	39.89	28.67	6.72	37.26	38.02	54	-15.98	H	
2390	45.04	28.08	6.81	37.12	42.81	54	-11.19	V	

Test Mode: Worst case 802.11b High Channel 2462MHz

Test Mode: 802.11g High Channel 2462MHz									Test Value
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over (dB)	Polarity H/V	
2483.5	59.97	27.38	6.15	36.29	57.21	74	-16.79	H	Peak
2500	49.20	27.43	6.68	36.79	46.52	74	-27.48	H	
2483.5	60.27	27.38	6.15	36.29	57.51	74	-16.49	V	
2500	48.98	27.43	6.68	36.79	46.30	74	-27.70	V	
2483.5	42.65	27.38	6.15	36.29	39.89	54	-14.11	H	Average
2500	40.10	27.43	6.68	36.79	37.42	54	-16.58	H	
2483.5	43.78	27.38	6.15	36.29	41.02	54	-12.98	V	
2500	39.32	27.43	6.68	36.79	36.64	54	-17.36	V	

Test Frequency: From 18GHz to 25GHz

The measurements were more than 20dB below the limit and not reported.



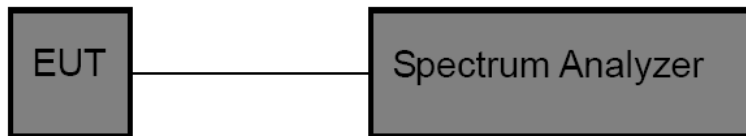
7 Conducted Spurious Emission

Test Requirement	:	FCC CFR47 Part 15 Section 15.247
Test Method	:	ANSI C63.10-2020
Test Limit	:	Regulation 15.247 (d), In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

7.1 Test Procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
2. Set the spectrum analyzer: RBW = 100kHz, VBW = 300kHz, Sweep = auto
Detector function = peak, Trace = max hold

7.2 Test Setup



7.3 Test Result

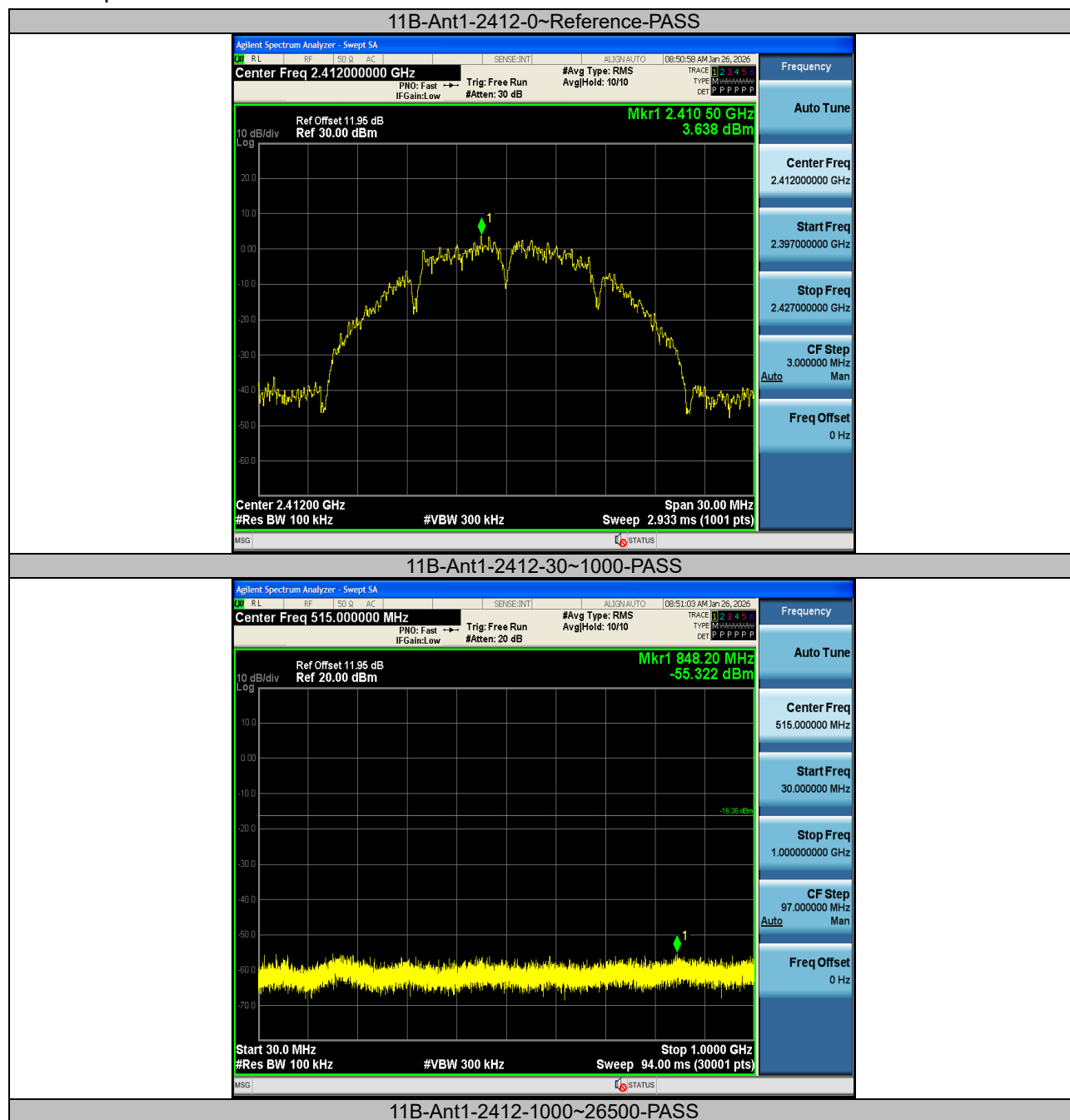
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	0~Reference	3.64	3.64	---	PASS
11B	Ant1	2412	30~1000	3.64	-55.32	≤-16.36	PASS
11B	Ant1	2412	1000~26500	3.64	-41.44	≤-16.36	PASS
11B	Ant1	2437	0~Reference	2.53	2.53	---	PASS
11B	Ant1	2437	30~1000	2.53	-55.55	≤-17.47	PASS
11B	Ant1	2437	1000~26500	2.53	-41.79	≤-17.47	PASS
11B	Ant1	2462	0~Reference	2.03	2.03	---	PASS
11B	Ant1	2462	30~1000	2.03	-55.18	≤-17.97	PASS
11B	Ant1	2462	1000~26500	2.03	-42.06	≤-17.97	PASS
11G	Ant1	2412	0~Reference	-5.03	-5.03	---	PASS
11G	Ant1	2412	30~1000	-5.03	-54.61	≤-25.03	PASS
11G	Ant1	2412	1000~26500	-5.03	-41.71	≤-25.03	PASS
11G	Ant1	2437	0~Reference	-3.66	-3.66	---	PASS
11G	Ant1	2437	30~1000	-3.66	-53.21	≤-23.66	PASS
11G	Ant1	2437	1000~26500	-3.66	-42.9	≤-23.66	PASS
11G	Ant1	2462	0~Reference	-4.03	-4.03	---	PASS
11G	Ant1	2462	30~1000	-4.03	-55.24	≤-24.03	PASS

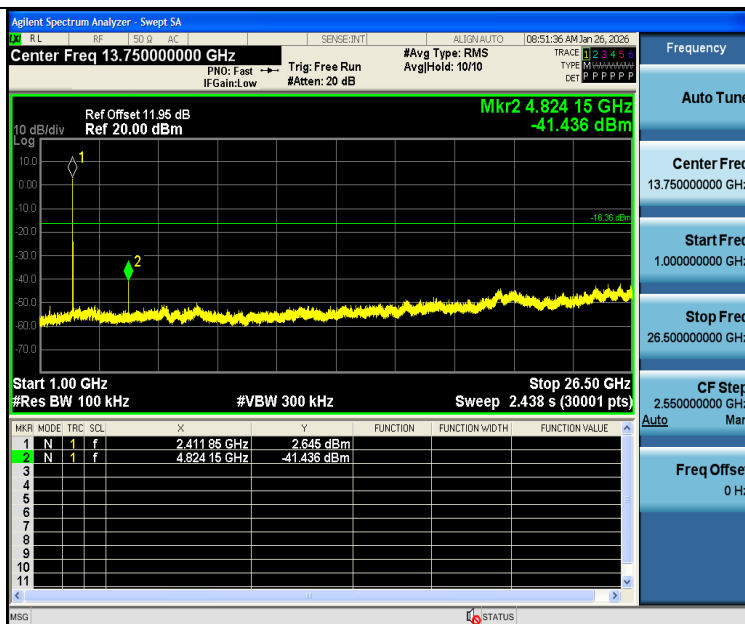


11G	Ant1	2462	1000~26500	-4.03	-41.71	≤ -24.03	PASS
11N20SISO	Ant1	2412	0~Reference	-4.61	-4.61	---	PASS
11N20SISO	Ant1	2412	30~1000	-4.61	-54.63	≤ -24.61	PASS
11N20SISO	Ant1	2412	1000~26500	-4.61	-42.5	≤ -24.61	PASS
11N20SISO	Ant1	2437	0~Reference	-4.79	-4.79	---	PASS
11N20SISO	Ant1	2437	30~1000	-4.79	-52.46	≤ -24.79	PASS
11N20SISO	Ant1	2437	1000~26500	-4.79	-42.95	≤ -24.79	PASS
11N20SISO	Ant1	2462	0~Reference	-4.40	-4.40	---	PASS
11N20SISO	Ant1	2462	30~1000	-4.40	-55.09	≤ -24.4	PASS
11N20SISO	Ant1	2462	1000~26500	-4.40	-43.04	≤ -24.4	PASS
11N40SISO	Ant1	2422	0~Reference	-7.37	-7.37	---	PASS
11N40SISO	Ant1	2422	30~1000	-7.37	-54.88	≤ -27.37	PASS
11N40SISO	Ant1	2422	1000~26500	-7.37	-43.1	≤ -27.37	PASS
11N40SISO	Ant1	2437	0~Reference	-6.40	-6.40	---	PASS
11N40SISO	Ant1	2437	30~1000	-6.40	-54.58	≤ -26.4	PASS
11N40SISO	Ant1	2437	1000~26500	-6.40	-43.3	≤ -26.4	PASS
11N40SISO	Ant1	2452	0~Reference	-5.90	-5.90	---	PASS
11N40SISO	Ant1	2452	30~1000	-5.90	-54.64	≤ -25.9	PASS
11N40SISO	Ant1	2452	1000~26500	-5.90	-42.4	≤ -25.9	PASS
11AX20SISO	Ant1	2412	0~Reference	-2.46	-2.46	---	PASS
11AX20SISO	Ant1	2412	30~1000	-2.46	-54.44	≤ -22.46	PASS
11AX20SISO	Ant1	2412	1000~26500	-2.46	-43.01	≤ -22.46	PASS
11AX20SISO	Ant1	2437	0~Reference	-6.60	-6.60	---	PASS
11AX20SISO	Ant1	2437	30~1000	-6.60	-54.86	≤ -26.6	PASS
11AX20SISO	Ant1	2437	1000~26500	-6.60	-42.11	≤ -26.6	PASS
11AX20SISO	Ant1	2462	0~Reference	-5.84	-5.84	---	PASS
11AX20SISO	Ant1	2462	30~1000	-5.84	-55.23	≤ -25.84	PASS
11AX20SISO	Ant1	2462	1000~26500	-5.84	-42.3	≤ -25.84	PASS
11AX40SISO	Ant1	2422	0~Reference	-7.51	-7.51	---	PASS
11AX40SISO	Ant1	2422	30~1000	-7.51	-54.83	≤ -27.51	PASS
11AX40SISO	Ant1	2422	1000~26500	-7.51	-42.88	≤ -27.51	PASS
11AX40SISO	Ant1	2437	0~Reference	-7.50	-7.50	---	PASS
11AX40SISO	Ant1	2437	30~1000	-7.50	-55.21	≤ -27.5	PASS
11AX40SISO	Ant1	2437	1000~26500	-7.50	-41.49	≤ -27.5	PASS
11AX40SISO	Ant1	2452	0~Reference	-4.74	-4.74	---	PASS
11AX40SISO	Ant1	2452	30~1000	-4.74	-54	≤ -24.74	PASS
11AX40SISO	Ant1	2452	1000~26500	-4.74	-42.17	≤ -24.74	PASS



Test Graphs:

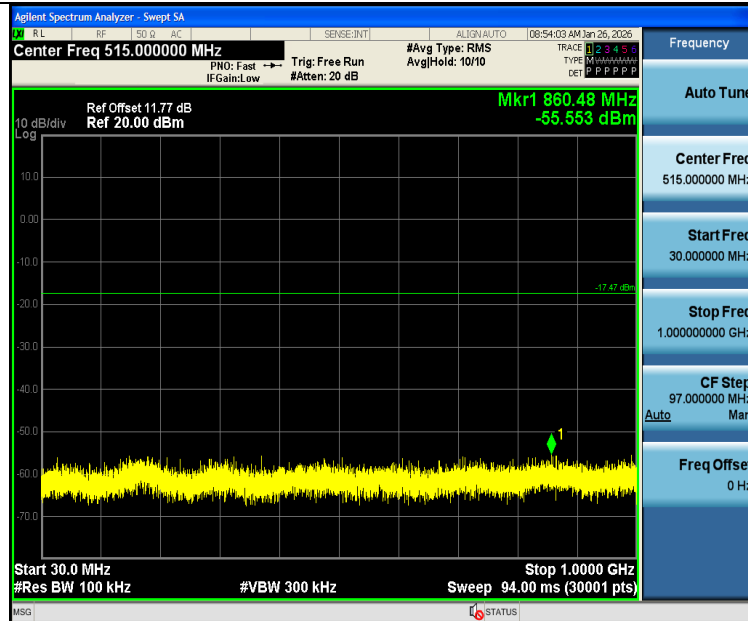




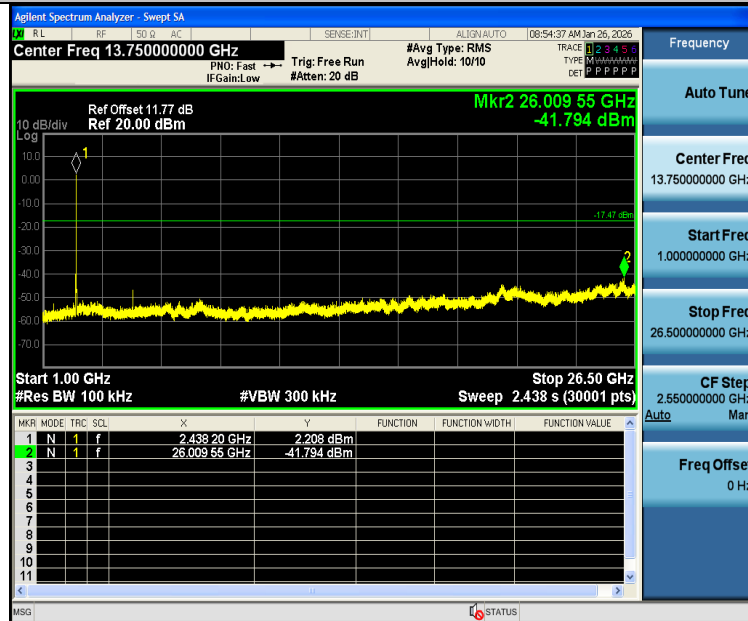
11B-Ant1-2437-0~Reference-PASS



11B-Ant1-2437-30~1000-PASS



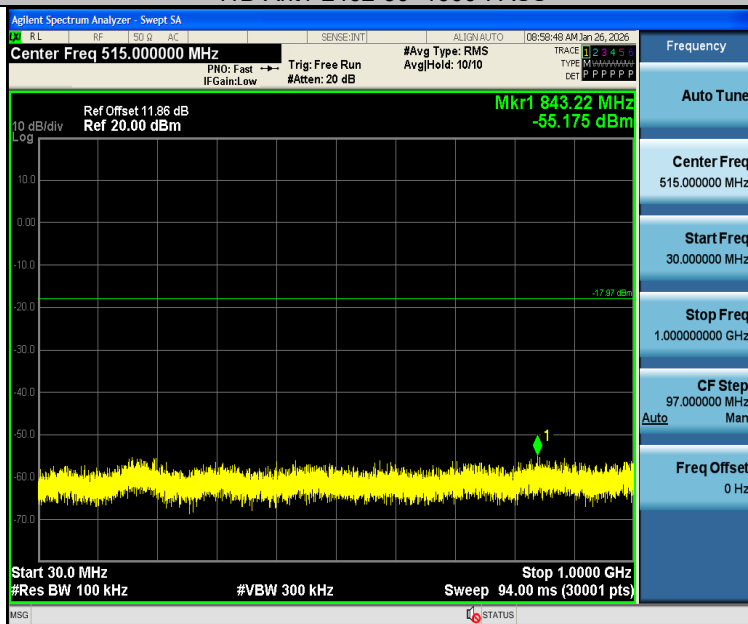
11B-Ant1-2437-1000~26500-PASS



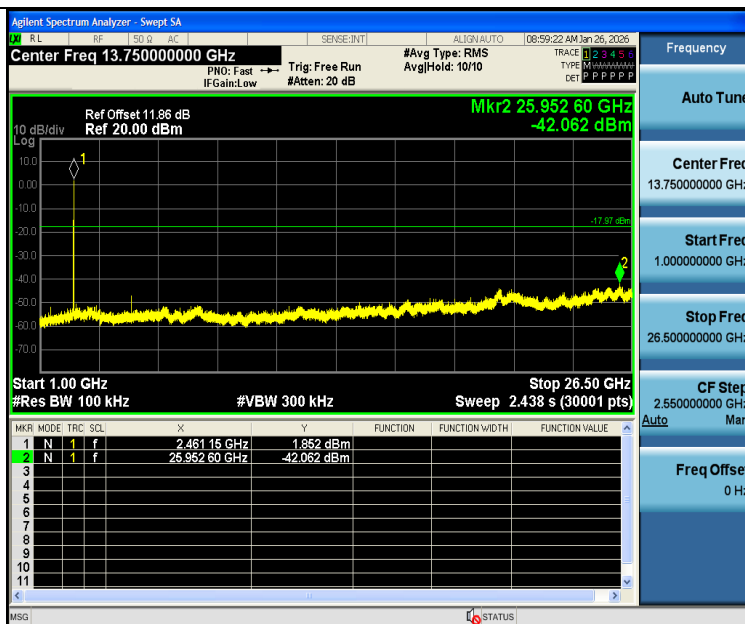
11B-Ant1-2462-0~Reference-PASS



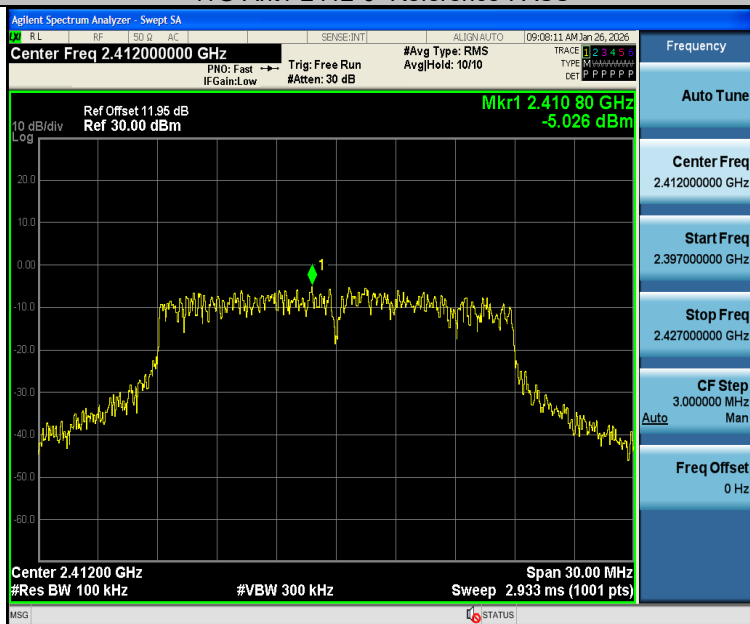
11B-Ant1-2462-30~1000-PASS



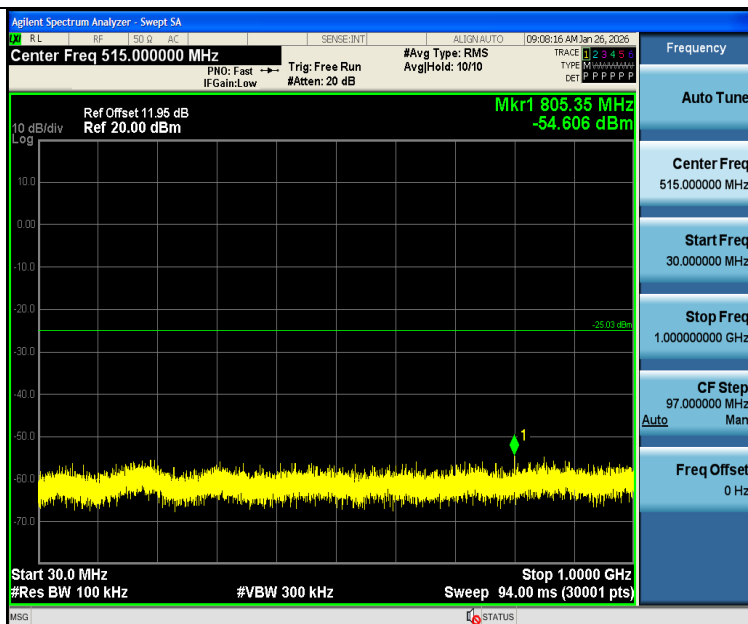
11B-Ant1-2462-1000~26500-PASS



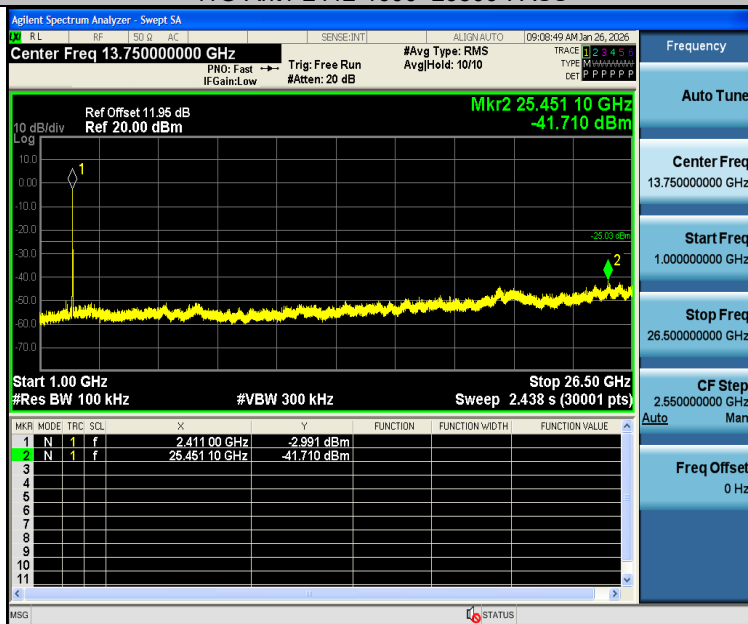
11G-Ant1-2412-0~Reference-PASS



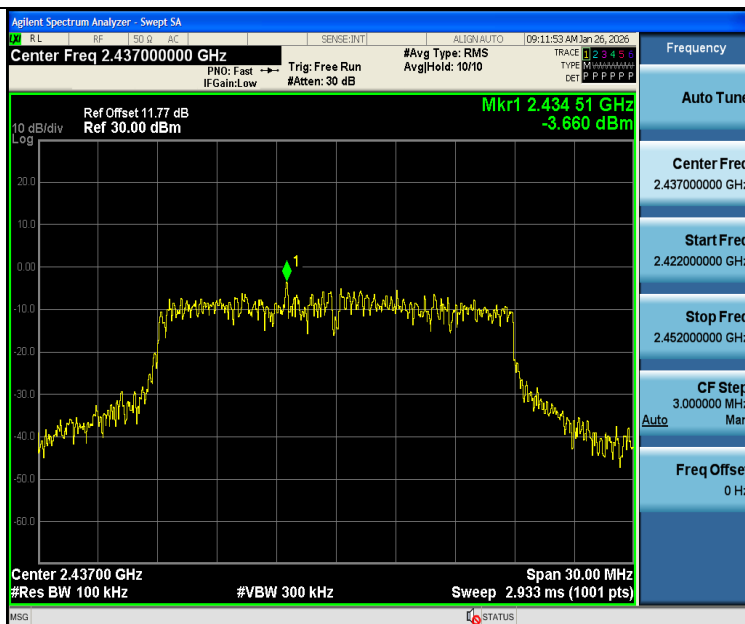
11G-Ant1-2412-30~1000-PASS



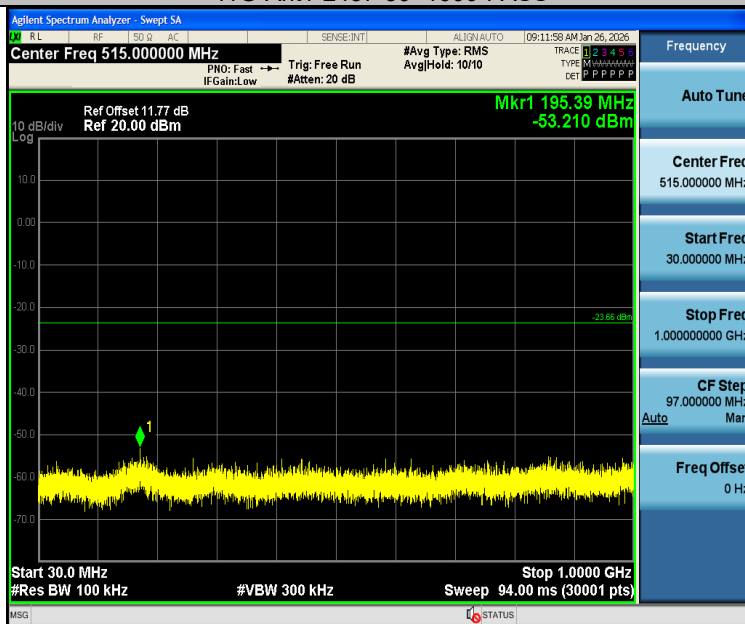
11G-Ant1-2412-1000~26500-PASS



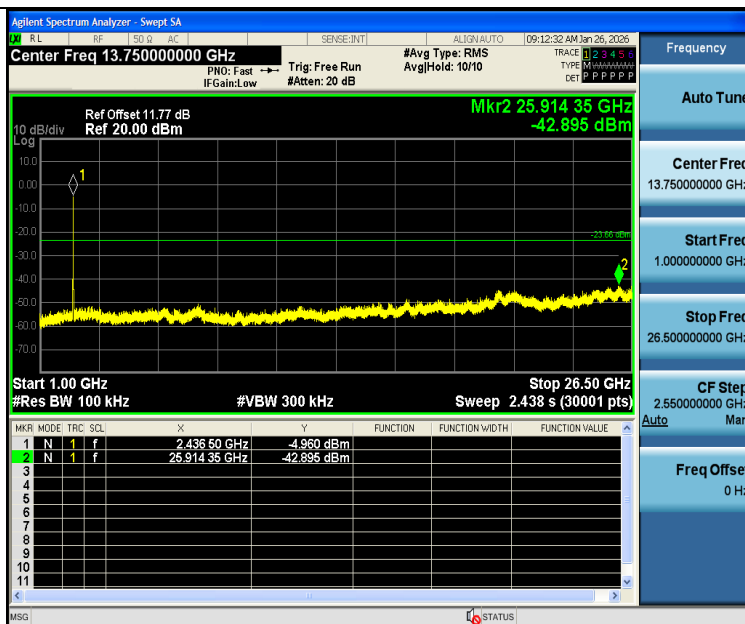
11G-Ant1-2437-0~Reference-PASS



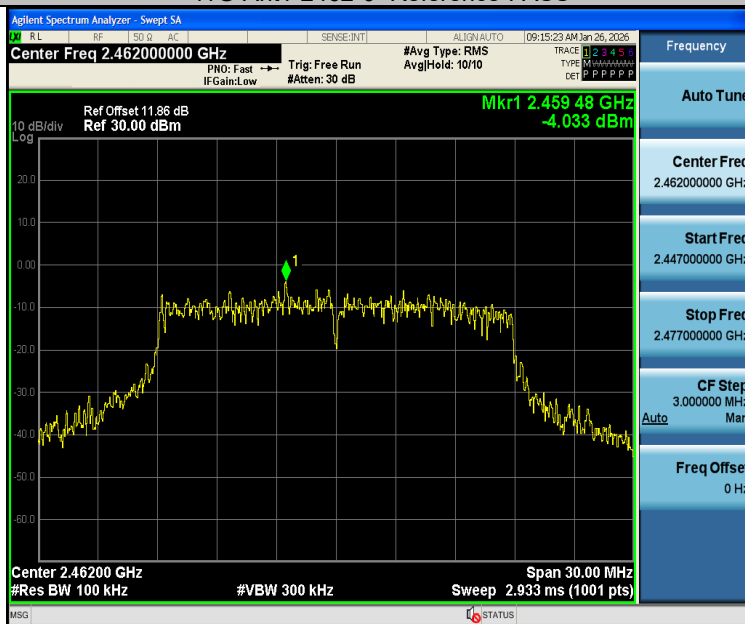
11G-Ant1-2437-30~1000-PASS



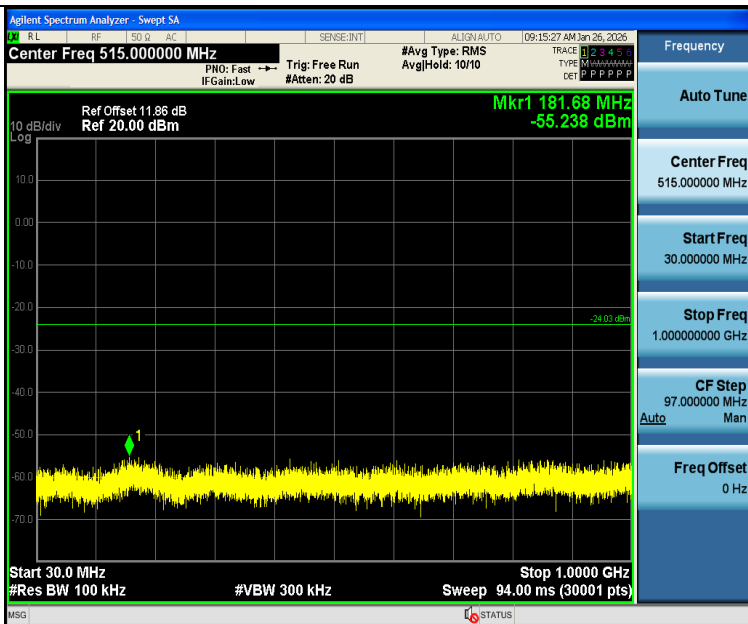
11G-Ant1-2437-1000~26500-PASS



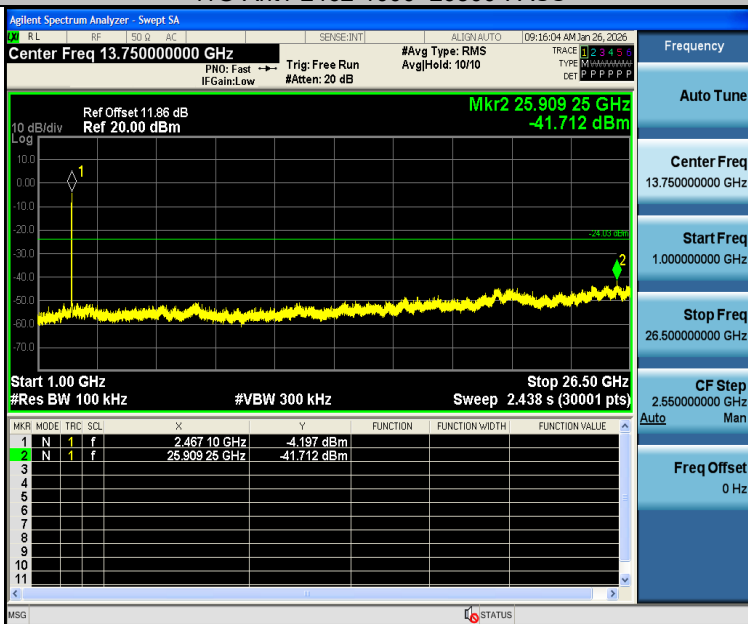
11G-Ant1-2462-0~Reference-PASS



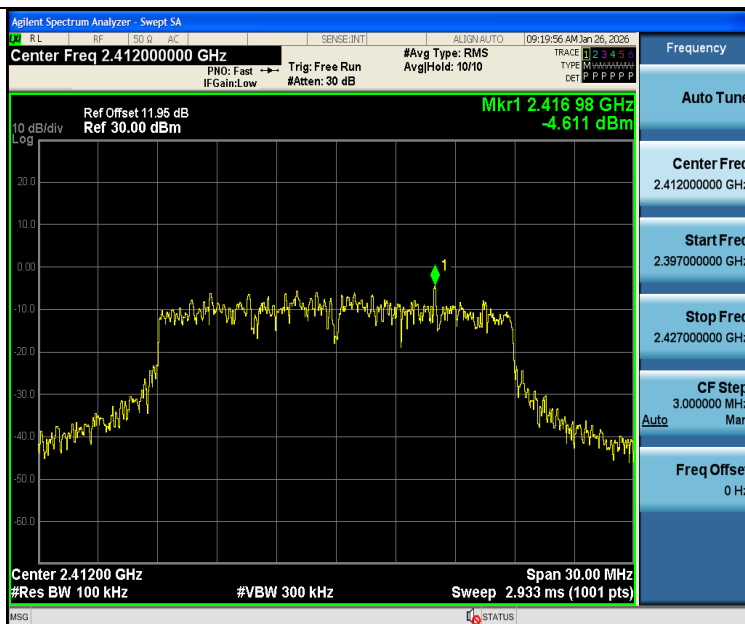
11G-Ant1-2462-30~1000-PASS



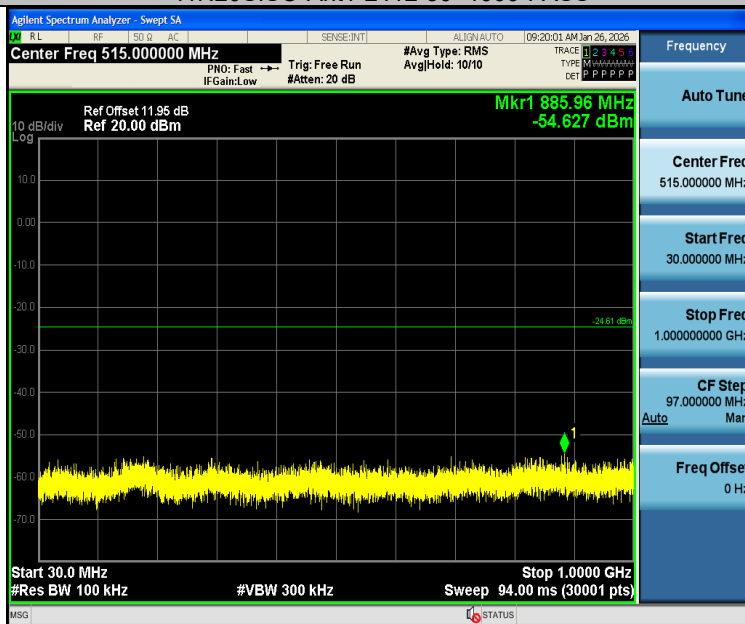
11G-Ant1-2462-1000~26500-PASS



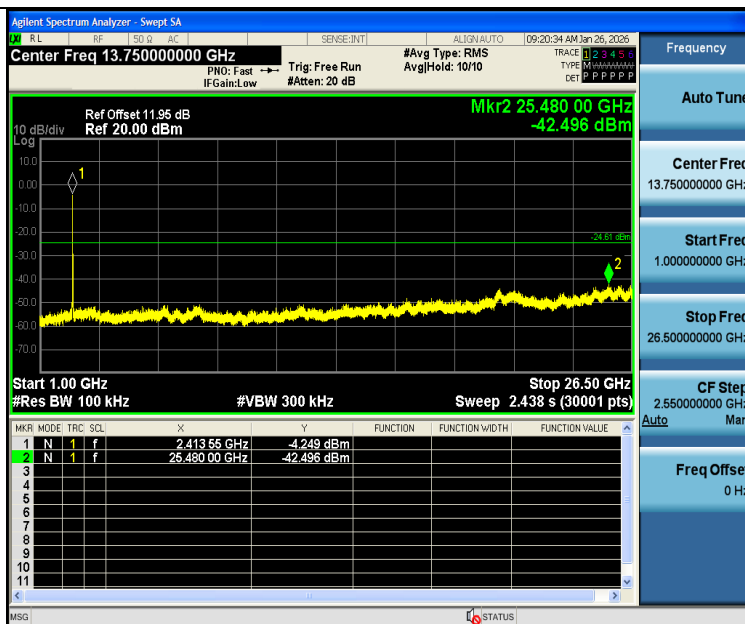
11N20SISO-Ant1-2412-0~Reference-PASS



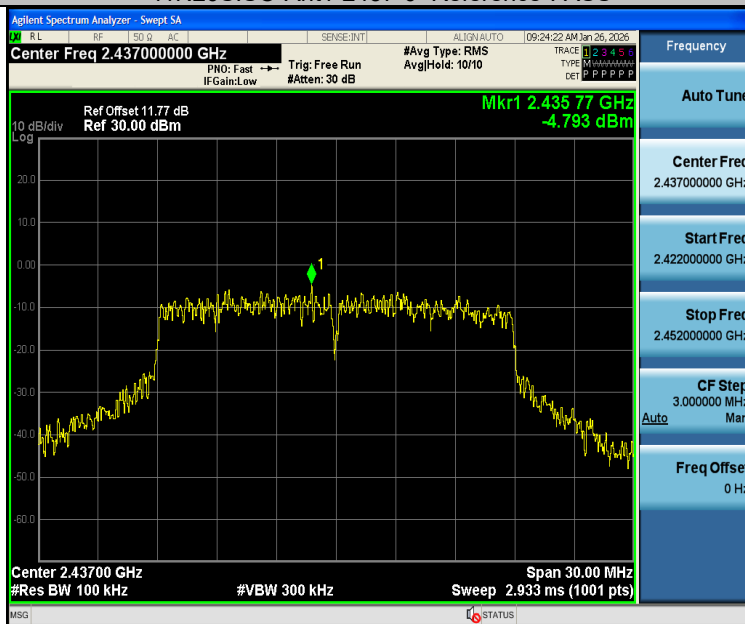
11N20SISO-Ant1-2412-30~1000-PASS



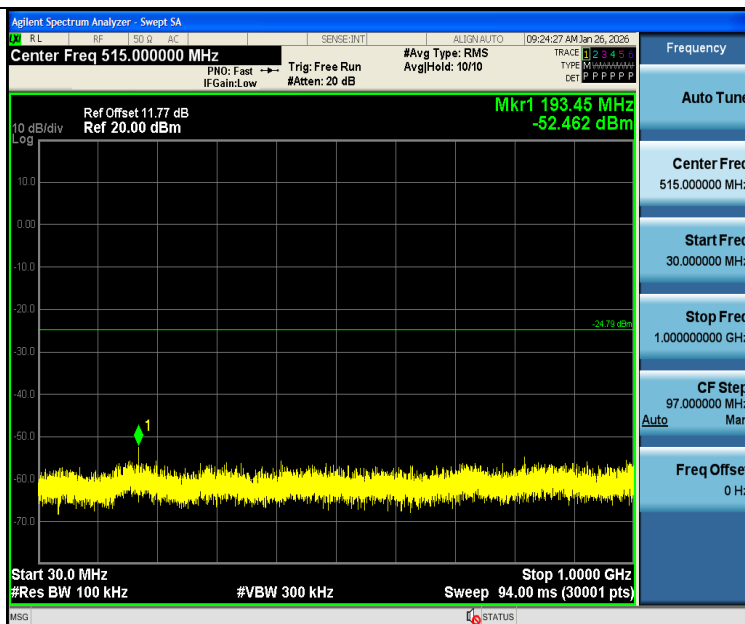
11N20SISO-Ant1-2412-1000~26500-PASS



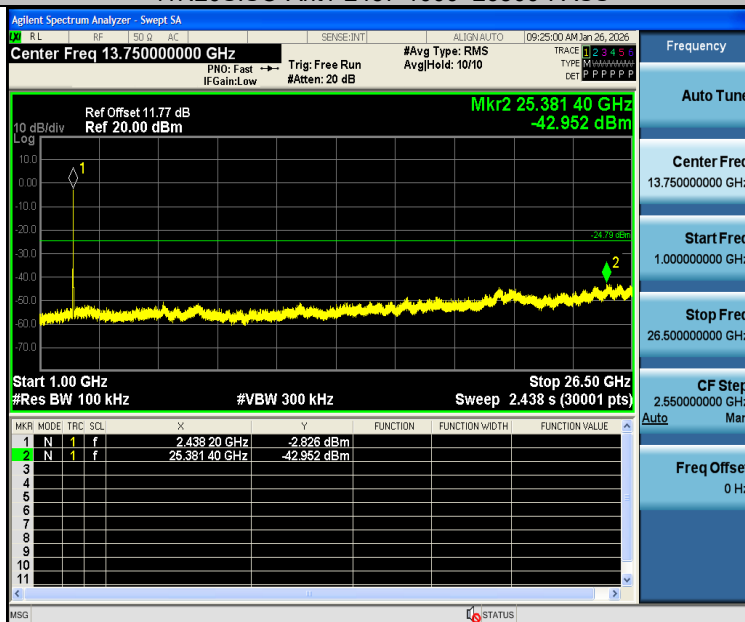
11N20SISO-Ant1-2437-0~Reference-PASS



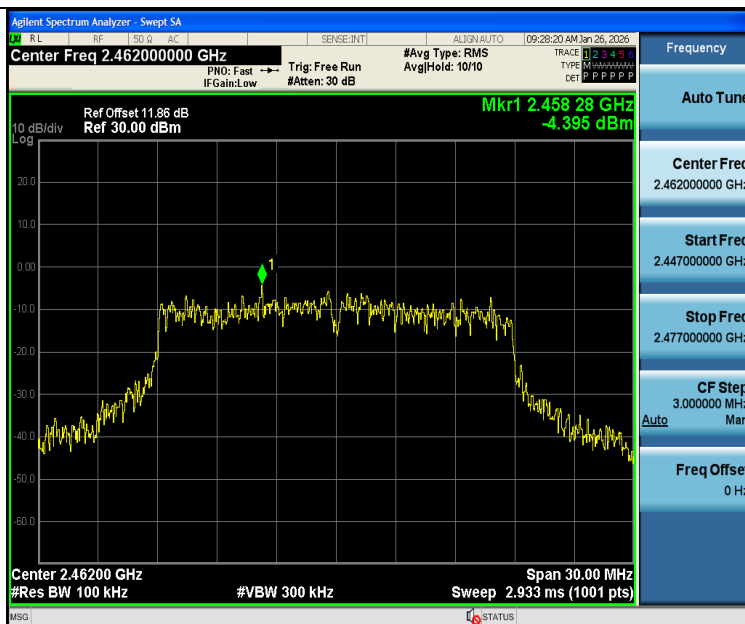
11N20SISO-Ant1-2437-30~1000-PASS



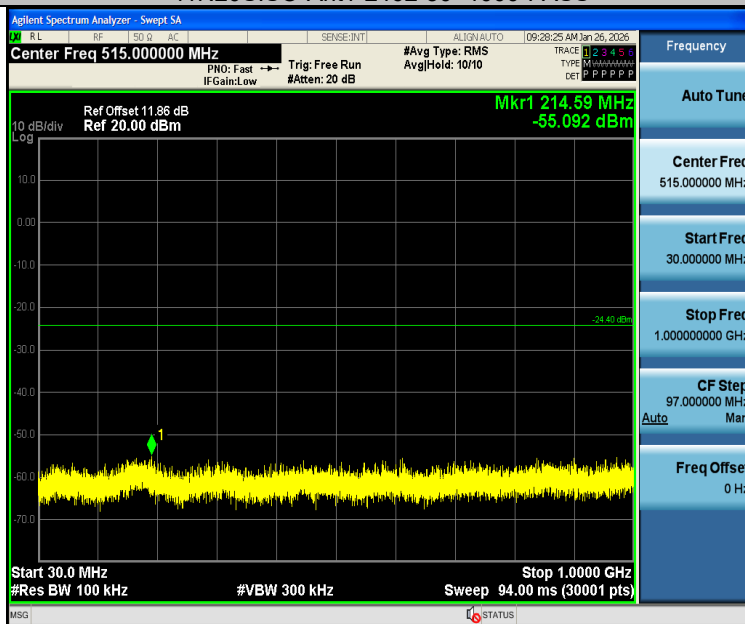
11N20SISO-Ant1-2437-1000~26500-PASS



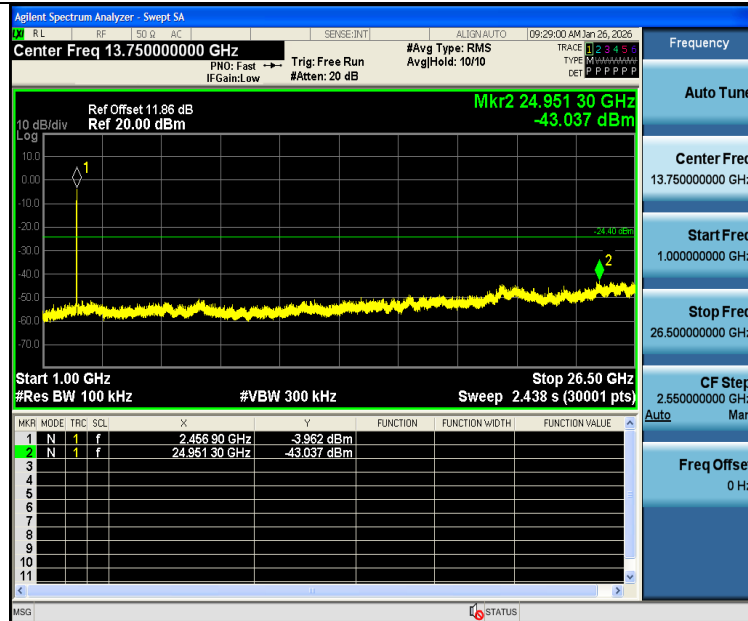
11N20SISO-Ant1-2462-0~Reference-PASS



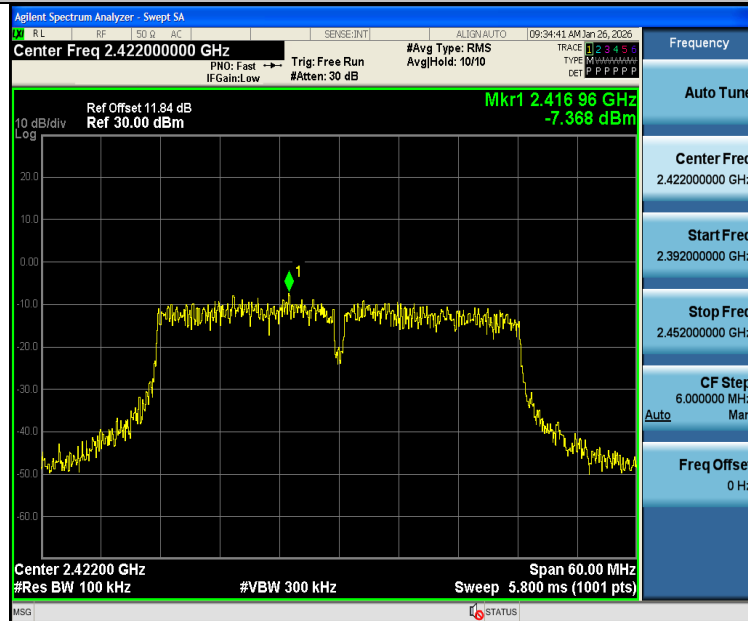
11N20SISO-Ant1-2462-30~1000-PASS



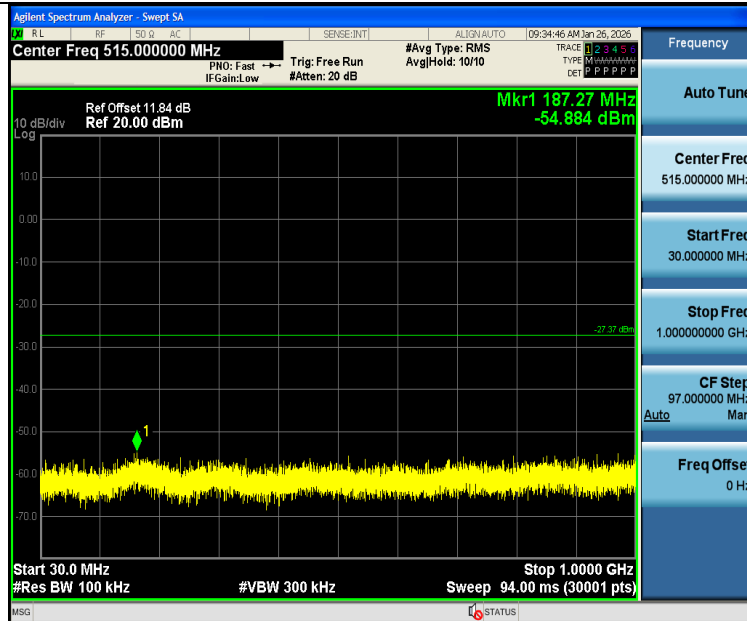
11N20SISO-Ant1-2462-1000~26500-PASS



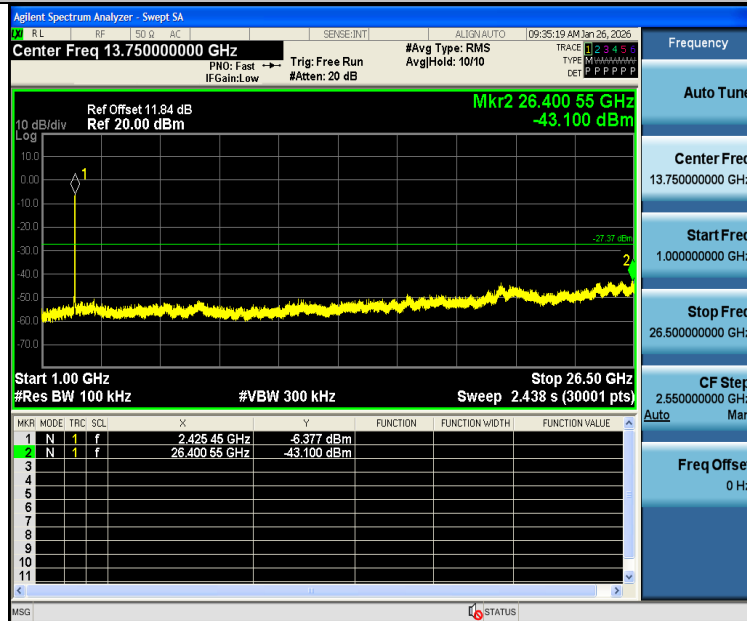
11N40SISO-Ant1-2422-0~Reference-PASS



11N40SISO-Ant1-2422-30~1000-PASS



11N40SISO-Ant1-2422-1000~26500-PASS



11N40SISO-Ant1-2437-0~Reference-PASS