

RF TEST REPORT

FCC ID: SMC-K931AO

Test Report No.....: RF251223045-03-001

Product(s) Name.....: Smart Projector

Model(s).....: J91-9K2, J91-9K0, J91-9K1, J91-9K3, J91-9K4, J91-9K5, J91-9K6,
J91-9K7, J91-9K8, J91-9K9, J91-9KA, J91-9KB, J91-9KC, J91-9KD,
J91-9KE, J91-9KF, J91-9KG, J91-9KH, J91-9KI, J91-9KJ, J91-9KK

Trade Mark.....: JMGO

Applicant.....: SHENZHEN HOLATEK CO., LTD.

Address.....: #12, Building 1, Chongwen Park, Nanshan Zhiyuan, 3370 Liuxian Ave,
Nanshan District, Shenzhen, China.

Receipt Date.....: 2025.12.30

Test Date.....: 2026.01.04 ~ 2026.01.23

Issued Date.....: 2026.01.24

Standards.....: 47 CFR FCC Part 15, Subpart C(Section 15.247);
ANSI C63.10:2020

Testing Laboratory.....: Shenzhen Haiyun Standard Technical Co., Ltd.

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History of this test report

Original Report Issue Date: 2026.01.24

- ☒ No additional attachment
- ☐ Additional attachments were issued following record

Attachment No.	Issue Date	Description

1. General Information

1.1 Applicant

SHENZHEN HOLATEK CO., LTD.

#12, Building 1, Chongwen Park, Nanshan Zhiyuan, 3370 Liuxian Ave, Nanshan District, Shenzhen, China.

1.2 Manufacturer

SHENZHEN HOLATEK CO., LTD.

#12, Building 1, Chongwen Park, Nanshan Zhiyuan, 3370 Liuxian Ave, Nanshan District, Shenzhen, China.

1.3 Basic Description of Equipment Under Test

Sample No.	POC251223045-S001	
Product name	Smart Projector	
Model name	J91-9K2, J91-9K0, J91-9K1, J91-9K3, J91-9K4, J91-9K5, J91-9K6, J91-9K7, J91-9K8, J91-9K9, J91-9KA, J91-9KB, J91-9KC, J91-9KD, J91-9KE, J91-9KF, J91-9KG, J91-9KH, J91-9KI, J91-9KJ, J91-9KK	
Test model	J91-9K2	
Model difference	Only the model name, product appearance and colors are different	
Trade Mark	JMGO	
Power supply	DC 24V from adapter	
Adapter information	Model name: NSA300EF-24012500 Input: 100-240V~, 50-60Hz, 3.5A Max Output: 24.0V===12.5A	
Operate temperature	0℃-45℃	
EUT Stage	○ Product Unit	● Final-Sample
Operating Band and Conducted Output Power (Max power)	2400MHz ~ 2483.5MHz	● IEEE 802.11n20: 15.64dBm(0.037W)
Product Type	IEEE 802.11b/g/n/ax: WLAN (MIMO)	
Nominal Bandwidth	20MHz / 40MHz	
Antenna gain	Ant1: 1.70dBi; Ant2: 1.80dBi	
Antenna type	FPC Antenna	
Modulation	DSSS, OFDM	
Data Rate (Mbps)	IEEE 802.11b mode: 1/2/5.5/11 IEEE 802.11g mode: 6/9/12/18/24/36/48/54 IEEE 802.11n mode: up to 300 IEEE 802.11ax mode: up to 573.5	

Eleven channels are provided for 802.11b, 802.11g, 802.11n (20MHz), 802.11ax (20MHz):

Frequency Band	Channel No.	Frequency	Channel No.	Frequency
2400MHz ~ 2483.5 MHz	01	2412MHz	07	2442MHz
	02	2417MHz	08	2447MHz
	03	2422MHz	09	2452MHz
	04	2427MHz	10	2457MHz
	05	2432MHz	11	2462MHz
	06	2437MHz	/	/

Seven channels are provided for 802.11n (40MHz), 802.11ax (40MHz):

Frequency Band	Channel No.	Frequency	Channel No.	Frequency
2400MHz ~ 2483.5 MHz	03	2422 MHz	07	2442MHz
	04	2427MHz	08	2447MHz
	05	2432MHz	09	2452MHz
	06	2437MHz	/	/

Note: For 802.11ax mode only support full RU mode.

1.4 Transmit Operating Mode

Transmit Operating Mode					Transmit Multiple Antennas			
☐	Operating mode 1 (single antenna)				☐	1TX		
☒	Operating mode 2 (multiple antenna, no beam forming)				☒	2TX	☐	3TX ☐ 4TX
☐	Operating mode 3 (multiple antenna, with beam forming)				☐	2TX	☐	3TX ☐ 4TX
☒	802.11b	Operating mode	☐	1TX	☒	2TX	☐	3TX ☐ 4TX
☒	802.11g	Operating mode	☐	1TX	☒	2TX	☐	3TX ☐ 4TX
☒	802.11n(20MHz)	Operating mode	☐	1TX	☒	2TX	☐	3TX ☐ 4TX
☒	802.11n(40MHz)	Operating mode	☐	1TX	☒	2TX	☐	3TX ☐ 4TX
☒	802.11ax(20MHz)	Operating mode	☐	1TX	☒	2TX	☐	3TX ☐ 4TX
☒	802.11ax(40MHz)	Operating mode	☐	1TX	☒	2TX	☐	3TX ☐ 4TX

2. Summary of Test Results

2.1 Summary of Test Items

47 CFR FCC Part 15, Subpart C (Section 15.247)			
Test item	FCC Clause	Results	Remarks
AC Power Conducted Emission	15.207	Pass	Meet the requirement of the limit
Radiated Emission and Band Edge Measurement	15.205/15.209 /15.247(d)	Pass	Meet the requirement of the limit
Spurious Emission at Antenna Port	15.247(d)	Pass	Meet the requirement of the limit
6dB Bandwidth	15.247(a)(2)	Pass	Meet the requirement of the limit
Maximum Conducted Power	15.247(b)	Pass	Meet the requirement of the limit
Power Spectral Density	15.247(e)	Pass	Meet the requirement of the limit
Antenna Requirements	15.203	Compliance	Note
Note: The EUT has two FPC antennas arrangement which was permanently attached.			

2.2 Application of Standard

47 CFR FCC Part 15, Subpart C (Section 15.247)

KDB 558074 D01 15.247 Meas Guidance v05r02

KDB 662911 D01 Multiple Transmitter Output v02r01

ANSI C63.10:2020

2.3 Test Instruments

No.	Name of Equipment	Manufacturer	Model Number	Serial Number	Inventory No.	Last Calibration	Due Calibration
Radiated Emission							
1	Test receiver	Rohde&Schwarz	ESU	100184	JLE011	2025/3/1	2026/2/28
2	Log periodic antenna	Schwarzbeck	VULB 9168	1151	JLE012	2025/4/12	2026/4/11
3	Low frequency amplifier	/	LNA 0920N	2014	JLE023	2025/3/1	2026/2/28
4	High frequency amplifier	Schwarzbeck	BBV 9718	9718-284	JLE024	2025/3/1	2026/2/28
5	Horn Antenna	SCHWARZBECK	BBHA 9120 D	02670	JLE028	2025/4/12	2026/4/11
6	Temp&Humidity Recorder	Meideshi	JR900	/	JLE021	2025/4/15	2026/4/14
7	Horn Antenna	SCHWARZBECK	BBHA 9170	9170#685	JLE029	2024/7/15	2027/7/14
8	Loop Antenna	SCHWARZBECK	FMZB1519B	00029	JLE030	2024/7/15	2027/7/14
9	Broadband preamplifier	Schwarzbeck	BBV9721	9721-019	JLE025	2025/3/1	2026/2/28
10	Test software	Farad Technology Co., Ltd	EZ-EMC Ver.TW-03A2				
Conducted Emission							
1	LISN	Rohde&Schwarz	ENV216	100075	JLE002	2025/3/1	2026/2/28
2	ISN	Schwarzbeck	CATE 5 8158	#171	JLE003	2025/2/21	2026/2/20
3	ISN	Schwarzbeck	CAT 3 8158	00187	JLE032	2025/2/21	2026/2/20
4	Test receiver	Rohde&Schwarz	ESCI	100718	JLE010	2025/3/1	2026/2/28
5	Pulse limiter	Rohde&Schwarz	ESH3-Z2	102299	JLE047	2025/3/1	2026/2/28
6	Temp&Humidity Recorder	Meideshi	JR900	/	JLE020	2025/4/15	2026/4/14
7	Test software	Farad Technology Co., Ltd	EZ-EMC Ver.TW-03A2				
RF Conducted Emissions							
1	MXA Signal Analyzer	Keysight	N9021B	MY60080169	JLE050	2025/3/1	2026/2/28
2	MXA Signal Analyzer	Keysight	N9010A	MY51440158	JLE087	2025/9/15	2026/9/14
3	RF Control Unit	dsusoft	JS0806-2	21G8060449	JLE053	2025/3/1	2026/2/28
4	power supply unit	dsusoft	JS0806-4ADC	N/A	JLE055	2025/3/1	2026/2/28
5	VXG Signal Generator	Keysight	N5182B	MY59100855	JLE068	2025/4/15	2026/4/14
6	VXG Signal Generator	Keysight	M9384B	MY61270787	JLE051	2025/6/10	2026/6/9
7	EXG Analog Signal Generator	Keysight	N5173B	MY59101282	JLE052	2025/3/1	2026/2/28
8	Wideband Radio Communication Tester	Rohde&Schwarz	CMW500	1201.0002K5 0-116064-Dt	JLE054	2025/3/1	2026/2/28
9	Test software	dsusoft	JS1120-3 Ver.3.2.22.0				

2.4 Test Mode

Test Items	Mode	Data Rate	Channel
AC Power Conducted Emission	802.11N40MIMO	MCS0	09
Radiated Emission and Band Edge Measurement	802.11B-CDD	1Mbps	01/06/11
	802.11G-CDD	6Mbps	01/06/11
	802.11N20MIMO	MCS0	01/06/11
	802.11N40MIMO	MCS0	03/06/09
	802.11AX20MIMO	MCS0	01/06/11
	802.11AX40MIMO	MCS0	03/06/09
Spurious Emission at Antenna Port	802.11B-CDD	1Mbps	01/06/11
	802.11G-CDD	6Mbps	01/06/11
	802.11N20MIMO	MCS0	01/06/11
	802.11N40MIMO	MCS0	03/06/09
	802.11AX20MIMO	MCS0	01/06/11
	802.11AX40MIMO	MCS0	03/06/09
6dB Bandwidth	802.11B-CDD	1Mbps	01/06/11
	802.11G-CDD	6Mbps	01/06/11
	802.11N20MIMO	MCS0	01/06/11
	802.11N40MIMO	MCS0	03/06/09
	802.11AX20MIMO	MCS0	01/06/11
	802.11AX40MIMO	MCS0	03/06/09
Maximum Conducted Power	802.11B-CDD	1Mbps	01/06/11
	802.11G-CDD	6Mbps	01/06/11
	802.11N20MIMO	MCS0	01/06/11
	802.11N40MIMO	MCS0	03/06/09
	802.11AX20MIMO	MCS0	01/06/11
	802.11AX40MIMO	MCS0	03/06/09
Power Spectral Density	802.11B-CDD	1Mbps	01/06/11
	802.11G-CDD	6Mbps	01/06/11
	802.11N20MIMO	MCS0	01/06/11
	802.11N40MIMO	MCS0	03/06/09
	802.11AX20MIMO	MCS0	01/06/11
	802.11AX40MIMO	MCS0	03/06/09

Note: For AC Power Conducted Emission and Radiated Emission below 1GHz, only worst case was recorded.

2.5 Test Condition

Applicable to	Environmental conditions	Input Power	Tested by
AC Power Conducted Emission	23.8°C, 52% RH	AC 120V/60Hz	Keith Huang
Radiated Emission and Band Edge Measurement	23.9°C, 50% RH	AC 120V/60Hz	Lemon He
Spurious Emission at Antenna Port	23.3°C, 48% RH	DC 24V	Elio Lin
6dB Bandwidth	23.3°C, 48% RH	DC 24V	Elio Lin
Maximum Conducted Power	23.3°C, 48% RH	DC 24V	Elio Lin
Power Spectral Density	23.3°C, 48% RH	DC 24V	Elio Lin

Note: Adapter supply voltage AC 120V/60Hz.

The applicant declare the operating environment of EUT as below:

Normal conditions: DC 24V, 0~45°C

2.6 Duty Cycle of Test Signal

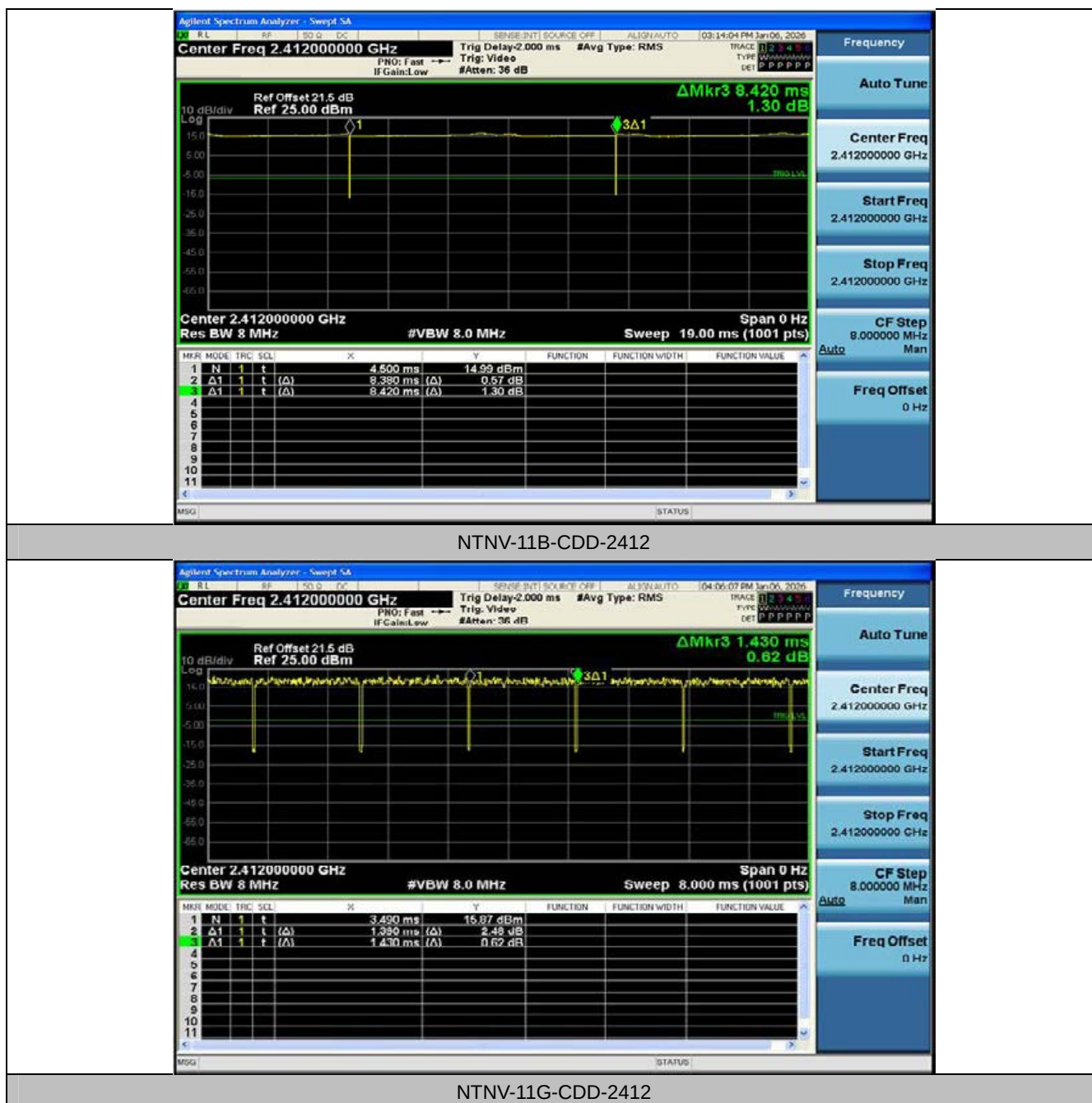
If duty cycle is $\geq 98\%$, duty factor is not required.

If duty cycle is $< 98\%$, duty factor shall be considered.

All the duty factor of other test mode have been considered.

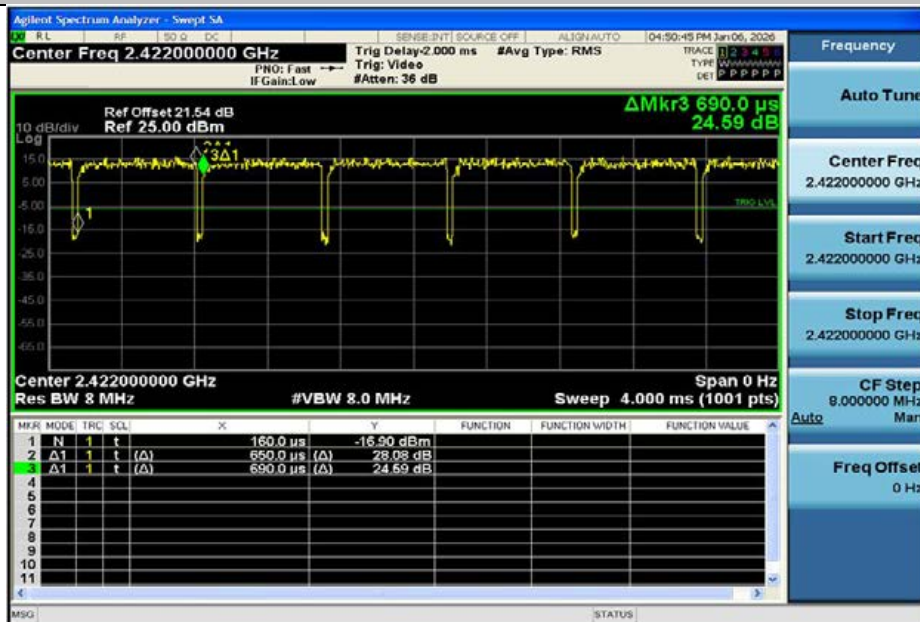
Test Mode	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11B-CDD	2412	8.38	8.42	99.52
11G-CDD	2412	1.39	1.43	97.20
11N20MIMO	2412	1.30	1.33	97.74
11N40MIMO	2422	0.65	0.69	94.20
11AX20MIMO	2412	1.02	1.05	97.14
11AX40MIMO	2422	0.53	0.56	94.64

Test Graphs





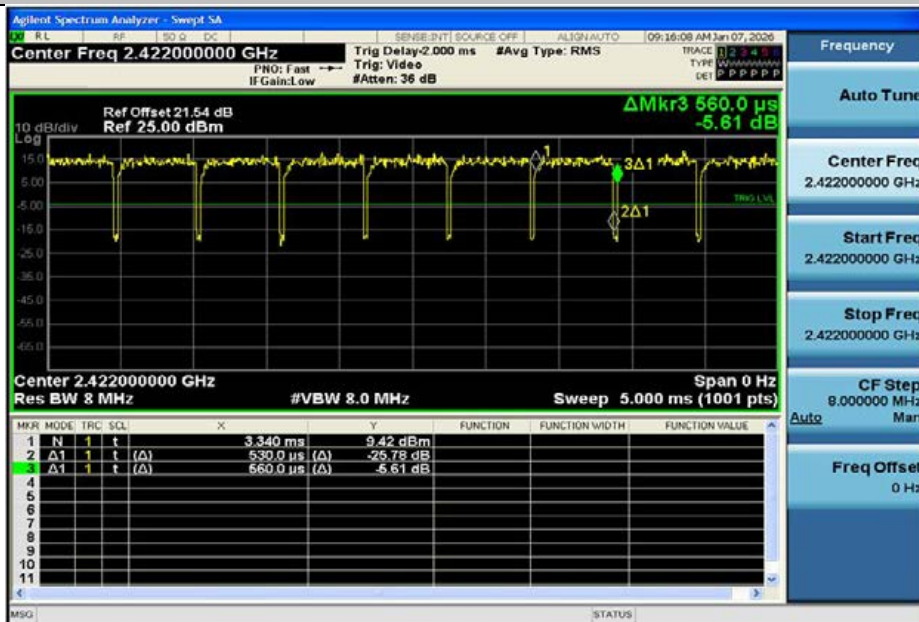
NTNV-11N20MIMO-2412



NTNV-11N40MIMO-2422



NTNV-11AX20MIMO-2412



NTNV-11AX40MIMO-2422

2.7 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT.

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

Uncertainty	
Parameter	Uncertainty
Occupied Channel Bandwidth	$\pm 102\text{kHz}$
RF power conducted	$\pm 0.243\text{dB}$
Power Spectral Density	$\pm 0.743\text{dB}$
Conducted Spurious Emission	$\pm 1.328\text{dB}$
Conducted emission(9kHz~30MHz) AC main	$\pm 2.68\text{dB}$
Radiated emission(9kHz~30MHz)	$\pm 3.50\text{dB}$
Radiated emission (30MHz~1GHz)	$\pm 4.20\text{dB}$
Radiated emission (1GHz~18GHz)	$\pm 5.10\text{dB}$
Radiated emission (18GHz~40GHz)	$\pm 5.26\text{dB}$

2.8 Test Location

Company:	Shenzhen Haiyun Standard Technical Co., Ltd.
Address:	No. 110-113, 115, 116, Block B, Jinyuan Business Building, Bao'an District, Shenzhen, China
CNAS Registration Number:	CNAS L18252
CAB identifier	CN0145
A2LA Certificate Number	6823.01

2.9 Description of Support Units

No.	Equipment	Model	Manufacturer	Series No
1	PC	M4500T	Thinkpad	M032004854IT
2	USB Disk1	/	Kingston	/

3. Test Procedure And Results

3.1 AC Power Line Conducted Emission

3.1.1 Limit

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level dB(μ V)	Average Level dB(μ V)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

Notes: 1. * Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

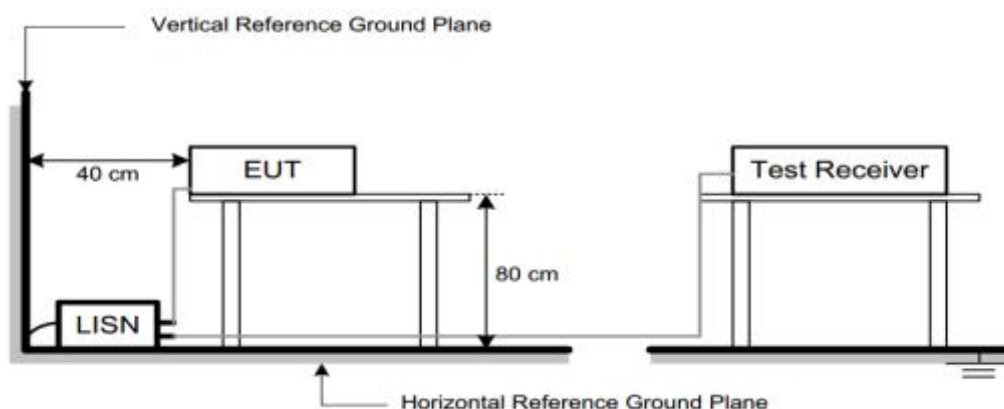
3.1.2 Test Procedure

Test Method	
☒ Conducted Measurement	☐ Radiated Measurement
Test Channels	
☐ Lowest, Middle and Highest Channel	☐ Lowest and Highest Channel
Environmental conditions	
☒ Normal	☐ Normal and Extreme

Note: ☒ : Test ☐ : No Test

- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

3.1.3 Test Setup



3.1.4 Test Result

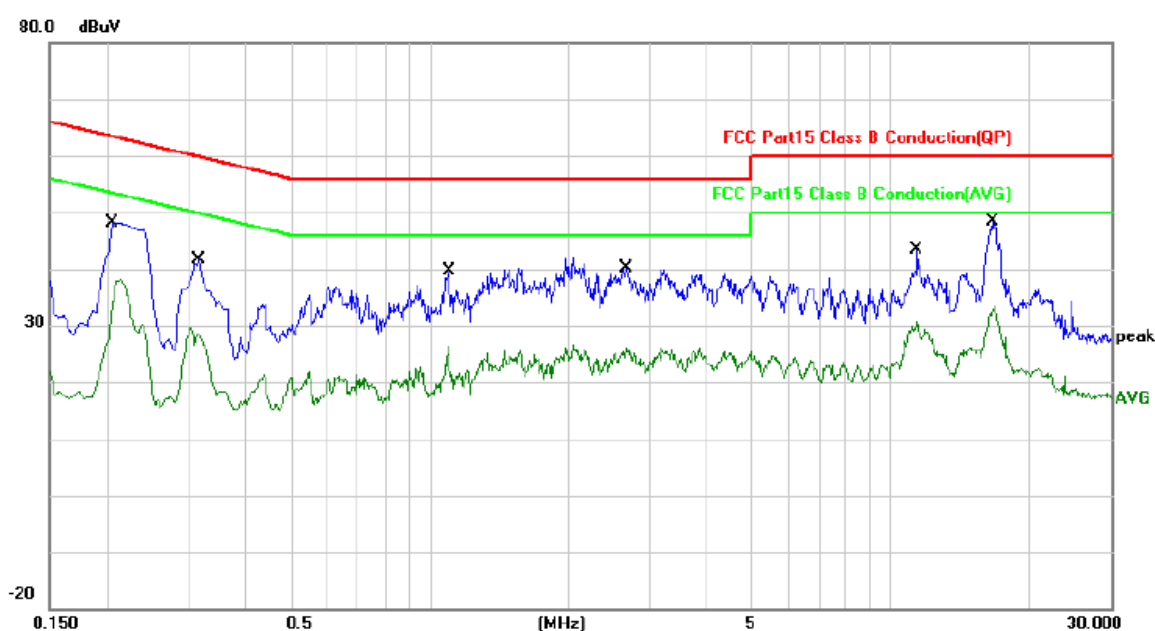
Note:

1. Correct Factor = LISN Factor + Cable Loss + Pulse Limiter Factor, the value was added to Original Receiver Reading by the software automatically.
2. Measurement = Reading + Correct Factor.
3. Over = Measurement – Limit

We only recorded the data of the worst mode. Please see the following:

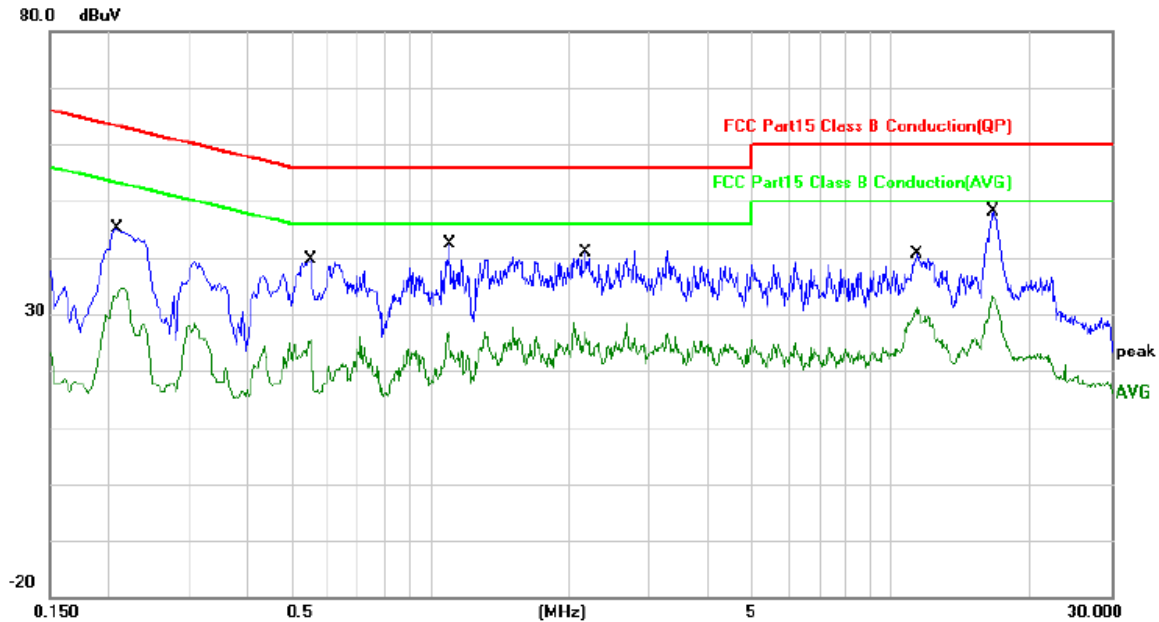
150kHz~30MHz	Worst Case Operating Mode: 11N40MIMO Channel 09
Line	

Conducted Emission Measurement



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.2060	27.24	19.52	46.76	63.37	-16.61	QP	
2		0.2060	15.30	19.52	34.82	53.37	-18.55	AVG	
3		0.3180	16.93	19.50	36.43	59.76	-23.33	QP	
4		0.3180	8.04	19.50	27.54	49.76	-22.22	AVG	
5		1.1020	17.17	19.57	36.74	56.00	-19.26	QP	
6		1.1020	5.41	19.57	24.98	46.00	-21.02	AVG	
7		2.6700	16.55	19.76	36.31	56.00	-19.69	QP	
8		2.6700	5.60	19.76	25.36	46.00	-20.64	AVG	
9		11.3900	15.78	20.27	36.05	60.00	-23.95	QP	
10		11.3900	10.12	20.27	30.39	50.00	-19.61	AVG	
11		16.6300	22.46	20.63	43.09	60.00	-16.91	QP	
12		16.6300	10.91	20.63	31.54	50.00	-18.46	AVG	

Conducted Emission Measurement



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.2100	23.62	19.55	43.17	63.21	-20.04	QP	
2		0.2100	14.16	19.55	33.71	53.21	-19.50	AVG	
3		0.5540	16.67	19.52	36.19	56.00	-19.81	QP	
4		0.5540	3.51	19.52	23.03	46.00	-22.97	AVG	
5		1.1060	16.77	19.55	36.32	56.00	-19.68	QP	
6		1.1060	4.58	19.55	24.13	46.00	-21.87	AVG	
7		2.1820	14.66	19.72	34.38	56.00	-21.62	QP	
8		2.1820	5.47	19.72	25.19	46.00	-20.81	AVG	
9		11.3900	16.17	20.27	36.44	60.00	-23.56	QP	
10		11.3900	10.47	20.27	30.74	50.00	-19.26	AVG	
11	*	16.6460	22.76	20.63	43.39	60.00	-16.61	QP	
12		16.6460	11.33	20.63	31.96	50.00	-18.04	AVG	

3.2 Radiated Emission and Band Edge

3.2.1 Limit

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 20dB below the highest level of the desired power:

Frequency (MHz)	Distance Meters(m)	Field Strength Limit	
		$\mu\text{V/m}$	$\text{dB}(\mu\text{V})/\text{m}$
0.009 – 0.49	300	$2400/\text{F}(\text{kHz})$	-
0.490 – 1.705	30	$24000/\text{F}(\text{kHz})$	-
1.705 – 30	30	30	-
30~88	3	100	40.0
88~216	3	150	43.5
216~960	3	200	46.0
960~1000	3	500	54.0
Above 1000	3	74.0 $\text{dB}(\mu\text{V})/\text{m}$ (Peak) 54.0 $\text{dB}(\mu\text{V})/\text{m}$ (Average)	

Note: (1) Emission level $\text{dB}\mu\text{V} = 20 \log$ Emission level $\mu\text{V/m}$

(2) The smaller limit shall apply at the cross point between two frequency bands.

(3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

3.2.2 Test Procedure

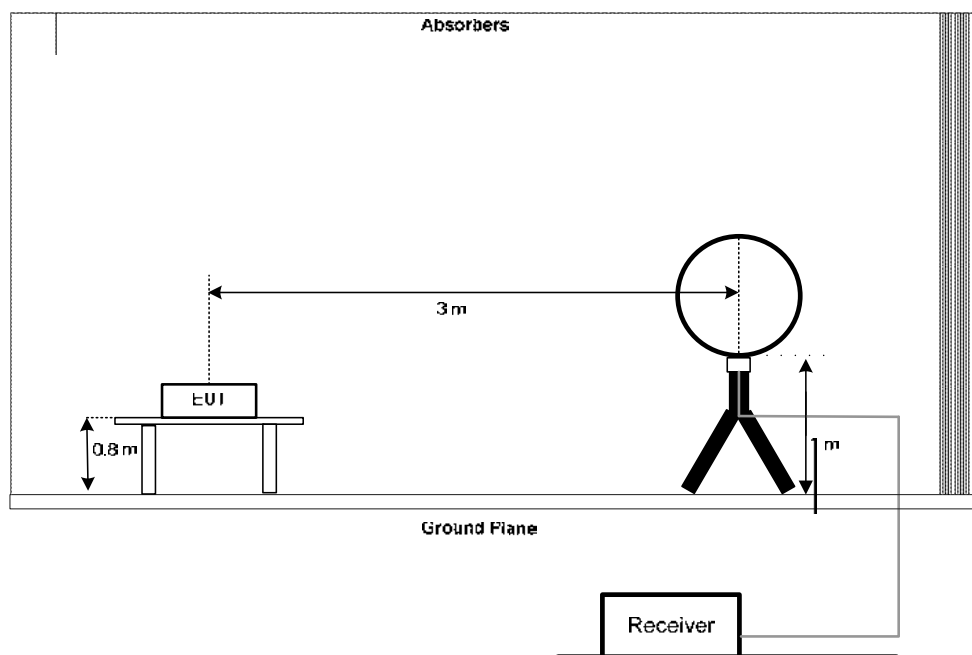
Test Method	
☐ Conducted Measurement	☒ Radiated Measurement
Test Channels	
☒ Lowest, Middle and Highest Channel	☐ Lowest and Highest Channel
Environmental conditions	
☒ Normal	☐ Normal and Extreme
Note: ☒ : Test ☐ : No Test	

- The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1 GHz)
- The measuring distance of 3 m or 1.5m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- The height of the equipment or of the substitution antenna shall be 0.8m or 1.5m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

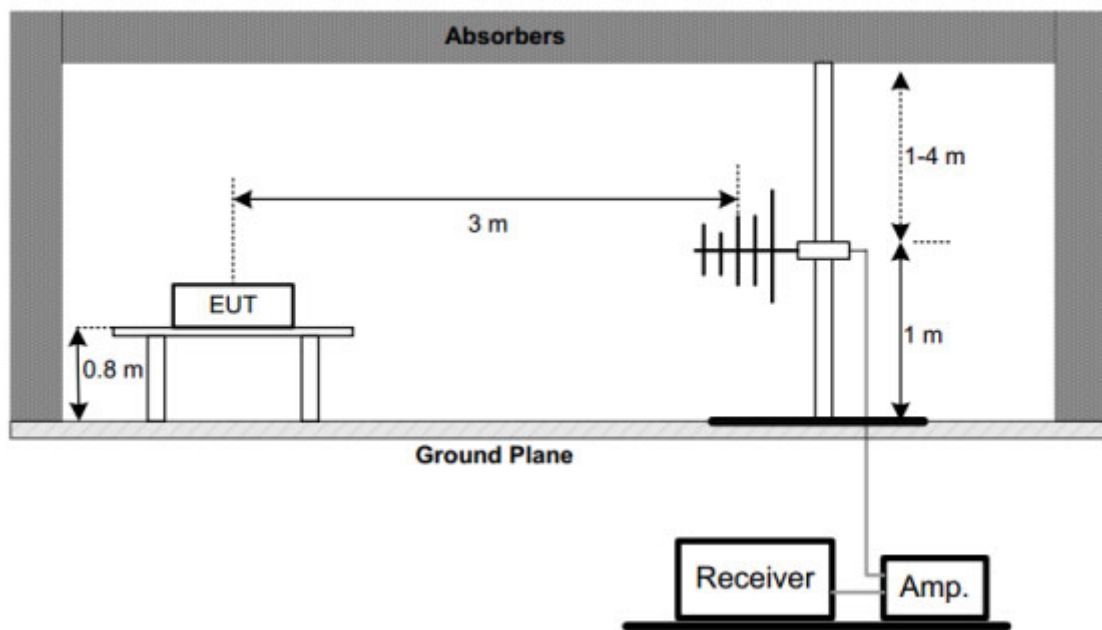
- d) For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
- e) The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz.
- f) The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- g) All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform. (below 1 GHz)
- h) All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform. (above 1 GHz)
- i) For the actual test configuration, please refer to the related Item -EUT Test Photos.

3.2.3 Test Setup

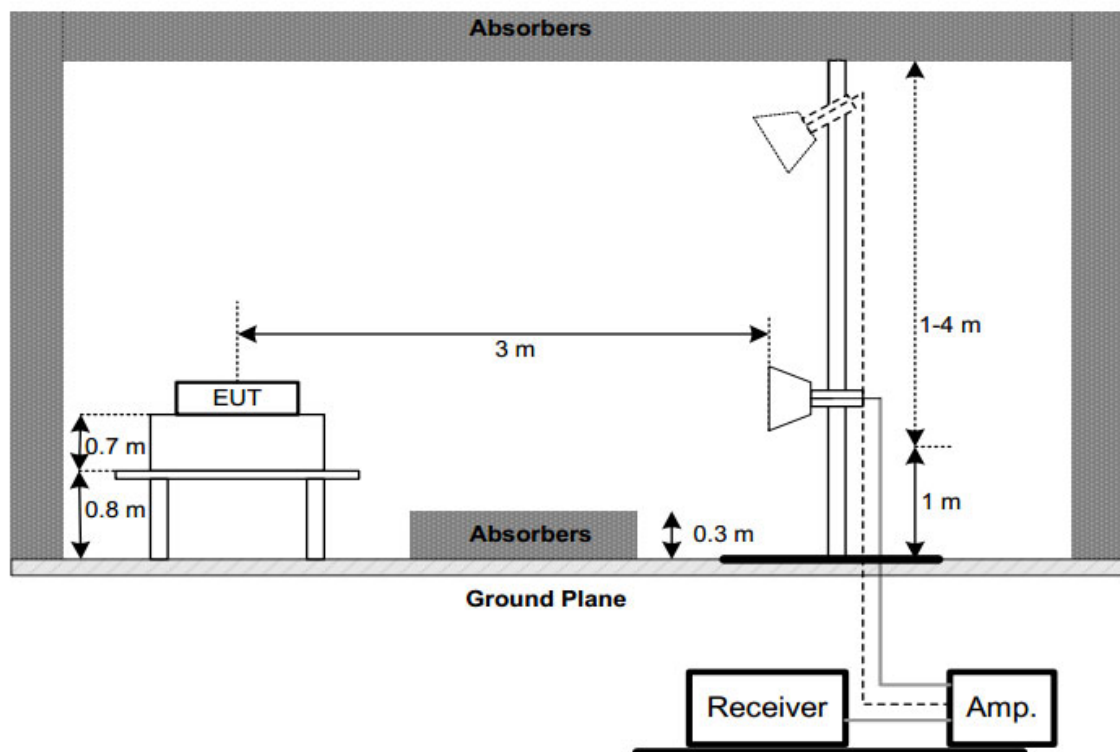
(A) Radiated Emission Test Set-Up Frequency Below 30 MHz



(B) Radiated Emission Test Set-Up Frequency 30 MHz-1000 MHz



(C) Radiated Emission Test Set-Up Frequency Above 1 GHz



3.2.4 Test Result

1) Radiated emission: 9kHz-30MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not recorded in this report.

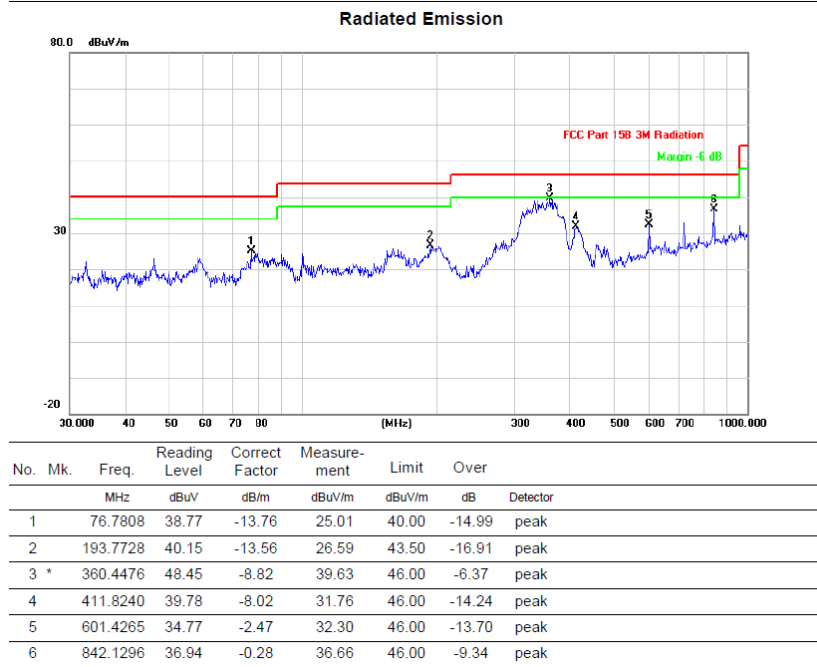
2) Radiated emission: 30MHz-1GHz

Note:

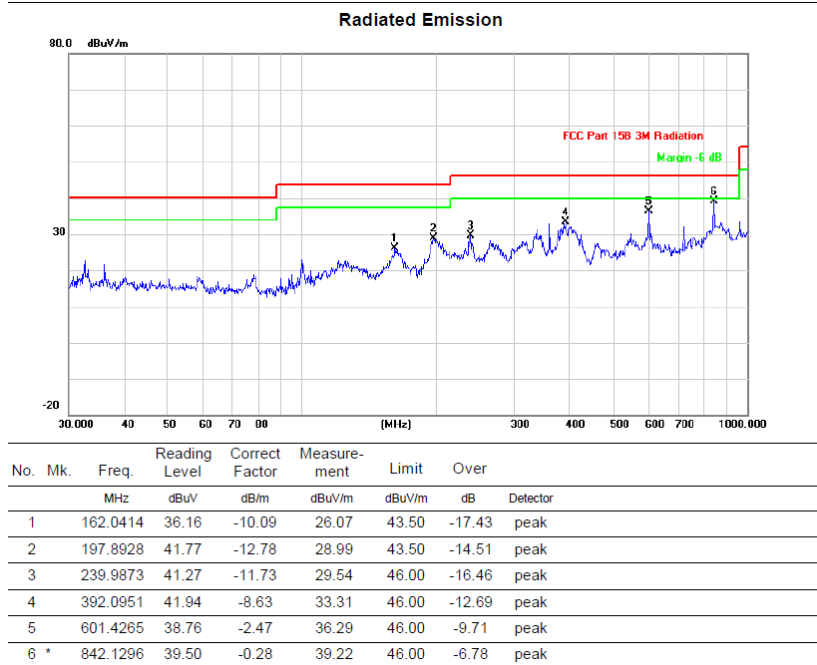
1. Measurement = Reading + Correct Factor.
2. Over = Measurement – Limit

We only recorded the data of the worst mode. Please see the following:

VERTICAL



HORIZONTAL



3) Radiated emission: Above 1GHz

Frequency (MHz)	Read Level (dBμV)	Polarization	Factor (dB/m)	Measurement (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
11B-CDD TX CH01							
4824.00	41.15	H	-3.64	37.51	74	36.49	peak
2310.00	34.80	H	8.22	43.02	74	30.98	peak
2390.00	35.00	H	8.46	43.46	74	30.54	peak
4824.00	42.27	V	-3.64	38.63	74	35.37	peak
2310.00	35.10	V	8.22	43.32	74	30.68	peak
2390.00	35.40	V	8.46	43.86	74	30.14	peak
11B-CDD TX CH06							
4874.00	40.98	H	-3.56	37.42	74	36.58	peak
4874.00	42.44	V	-3.56	38.88	74	35.12	peak
11B-CDD TX CH11							
4924.00	41.05	H	-3.33	37.72	74	36.28	peak
2483.50	33.34	H	9.10	42.44	74	31.56	peak
2500.00	33.51	H	9.26	42.77	74	31.23	peak
4924.00	42.34	V	-3.33	39.01	74	34.99	peak
2483.50	33.47	V	9.10	42.57	74	31.43	peak
2500.00	33.55	V	9.26	42.81	74	31.19	peak
11G-CDD TX CH01							
4824.00	40.87	H	-3.64	37.23	74	36.77	peak
2310.00	35.22	H	8.22	43.44	74	30.56	peak
2390.00	35.42	H	8.46	43.88	74	30.12	peak
4824.00	42.30	V	-3.64	38.66	74	35.34	peak
2310.00	35.39	V	8.22	43.61	74	30.39	peak
2390.00	35.26	V	8.46	43.72	74	30.28	peak
11G-CDD TX CH06							
4874.00	41.07	H	-3.56	37.51	74	36.49	peak
4874.00	42.04	V	-3.56	38.48	74	35.52	peak
11G-CDD TX CH11							
4924.00	41.16	H	-3.33	37.83	74	36.17	peak
2483.50	33.84	H	9.10	42.94	74	31.06	peak
2500.00	33.59	H	9.26	42.85	74	31.15	peak
4924.00	41.60	V	-3.33	38.27	74	35.73	peak
2483.50	33.98	V	9.10	43.08	74	30.92	peak
2500.00	33.66	V	9.26	42.92	74	31.08	peak

11N20MIMO TX CH01							
4824.00	40.62	H	-3.64	36.98	74	37.02	peak
2310.00	35.53	H	8.22	43.75	74	30.25	peak
2390.00	35.23	H	8.46	43.69	74	30.31	peak
4824.00	41.82	V	-3.64	38.18	74	35.82	peak
2310.00	35.63	V	8.22	43.85	74	30.15	peak
2390.00	35.18	V	8.46	43.64	74	30.36	peak
11N20MIMO TX CH06							
4874.00	40.81	H	-3.56	37.25	74	36.75	peak
4874.00	42.15	V	-3.56	38.59	74	35.41	peak
11N20MIMO TX CH11							
4924.00	40.75	H	-3.33	37.42	74	36.58	peak
2483.50	33.79	H	9.10	42.89	74	31.11	peak
2500.00	33.51	H	9.26	42.77	74	31.23	peak
4924.00	41.66	V	-3.33	38.33	74	35.67	peak
2483.50	34.64	V	9.10	43.74	74	30.26	peak
2500.00	33.77	V	9.26	43.03	74	30.97	peak
11N40MIMO TX CH03							
4844.00	40.70	H	-3.82	36.88	74	37.12	peak
2310.00	35.33	H	8.22	43.55	74	30.45	peak
2390.00	34.90	H	8.46	43.36	74	30.64	peak
4844.00	41.79	V	-3.82	37.97	74	36.03	peak
2310.00	35.19	V	8.22	43.41	74	30.59	peak
2390.00	34.91	V	8.46	43.37	74	30.63	peak
11N40MIMO TX CH06							
4874.00	40.58	H	-3.56	37.02	74	36.98	peak
4874.00	42.14	V	-3.56	38.58	74	35.42	peak
11N40MIMO TX CH09							
4904.00	41.10	H	-3.24	37.86	74	36.14	peak
2483.50	34.85	H	9.10	43.95	74	30.05	peak
2500.00	34.56	H	9.26	43.82	74	30.18	peak
4904.00	42.57	V	-3.24	39.33	74	34.67	peak
2483.50	35.14	V	9.10	44.24	74	29.76	peak
2500.00	34.62	V	9.26	43.88	74	30.12	peak

11AX20MIMO TX CH01							
4824.00	40.46	H	-3.64	36.82	74	37.18	peak
2310.00	35.44	H	8.22	43.66	74	30.34	peak
2390.00	34.87	H	8.46	43.33	74	30.67	peak
4824.00	41.68	V	-3.64	38.04	74	35.96	peak
2310.00	35.30	V	8.22	43.52	74	30.48	peak
2390.00	34.97	V	8.46	43.43	74	30.57	peak
11AX20MIMO TX CH06							
4874.00	40.69	H	-3.56	37.13	74	36.87	peak
4874.00	41.93	V	-3.56	38.37	74	35.63	peak
11AX20MIMO TX CH11							
4924.00	40.62	H	-3.33	37.29	74	36.71	peak
2483.50	33.68	H	9.1	42.78	74	31.22	peak
2500.00	33.78	H	9.26	43.04	74	30.96	peak
4924.00	41.81	V	-3.33	38.48	74	35.52	peak
2483.50	34.42	V	9.1	43.52	74	30.48	peak
2500.00	34.01	V	9.26	43.27	74	30.73	peak
11AX40MIMO TX CH03							
4844.00	40.47	H	-3.82	36.65	74	37.35	peak
2310.00	34.76	H	8.22	42.98	74	31.02	peak
2390.00	34.65	H	8.46	43.11	74	30.89	peak
4844.00	41.57	V	-3.82	37.75	74	36.25	peak
2310.00	35.00	V	8.22	43.22	74	30.78	peak
2390.00	34.43	V	8.46	42.89	74	31.11	peak
11AX40MIMO TX CH06							
4874.00	40.68	H	-3.56	37.12	74	36.88	peak
4874.00	41.84	V	-3.56	38.28	74	35.72	peak
11AX40MIMO TX CH09							
4904.00	40.75	H	-3.24	37.51	74	36.49	peak
2483.50	34.18	H	9.1	43.28	74	30.72	peak
2500.00	34.06	H	9.26	43.32	74	30.68	peak
4904.00	42.01	V	-3.24	38.77	74	35.23	peak
2483.50	34.62	V	9.1	43.72	74	30.28	peak
2500.00	34.48	V	9.26	43.74	74	30.26	peak

Note: 1. The other emission levels were very low against the limit.
2. Measurement = Reading Level+ Correct Factor, Margin = Limit- Measurement

3.3 Spurious Emission at Antenna Port

3.3.1 Limit

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 Output Power limits. If the transmitter complies with the Output 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 Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

3.3.2 Test Procedure

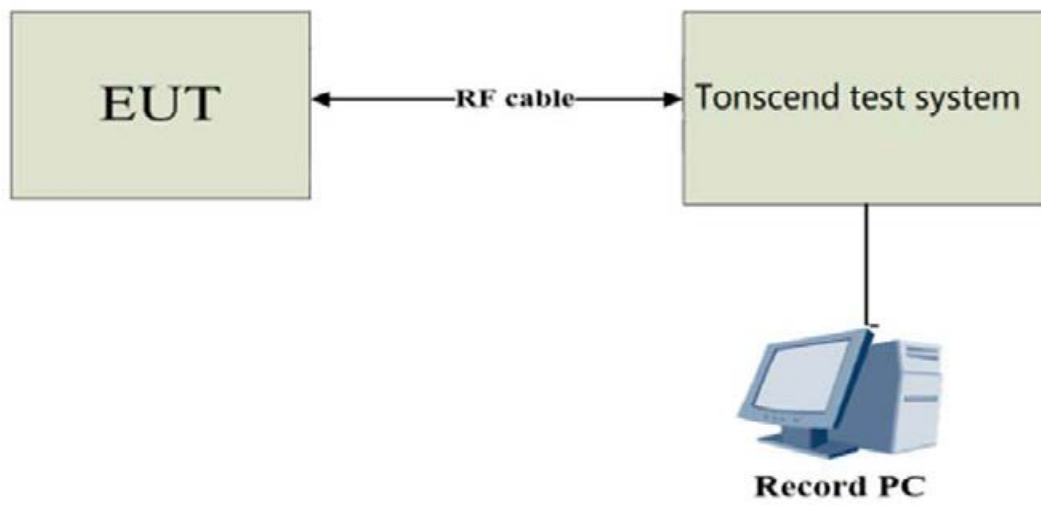
Test Method	
☒ Conducted Measurement	☐ Radiated Measurement
Test Channels	
☒ Lowest, Middle and Highest Channel	☐ Lowest and Highest Channel
Environmental conditions	
☒ Normal	☐ Normal and Extreme
Note: ☒ : Test ☐ : No Test	

a) The EUT was directly connected to the tonscond test system and antenna output port as show in the block diagram below.

b) Spectrum Setting as below:

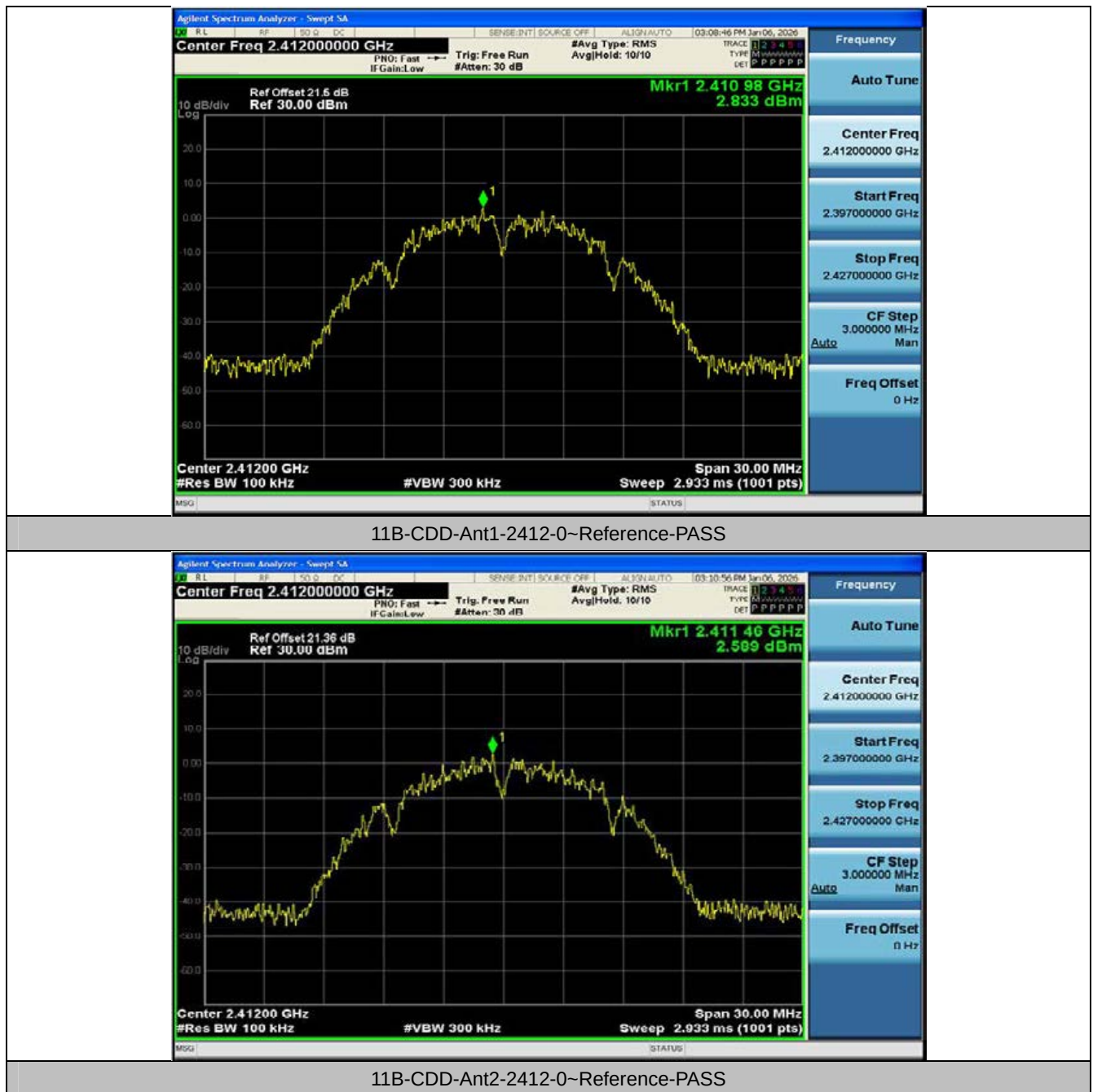
Centre Frequency	The centre frequency of the channel under test
Spectrum Parameters	Setting
Start Frequency	30 MHz
Stop Frequency	26.5 GHz
RBW	100 kHz
VBW	300 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

3.3.3 Test Setup



3.3.4 The Result

Conducted Spurious Emission





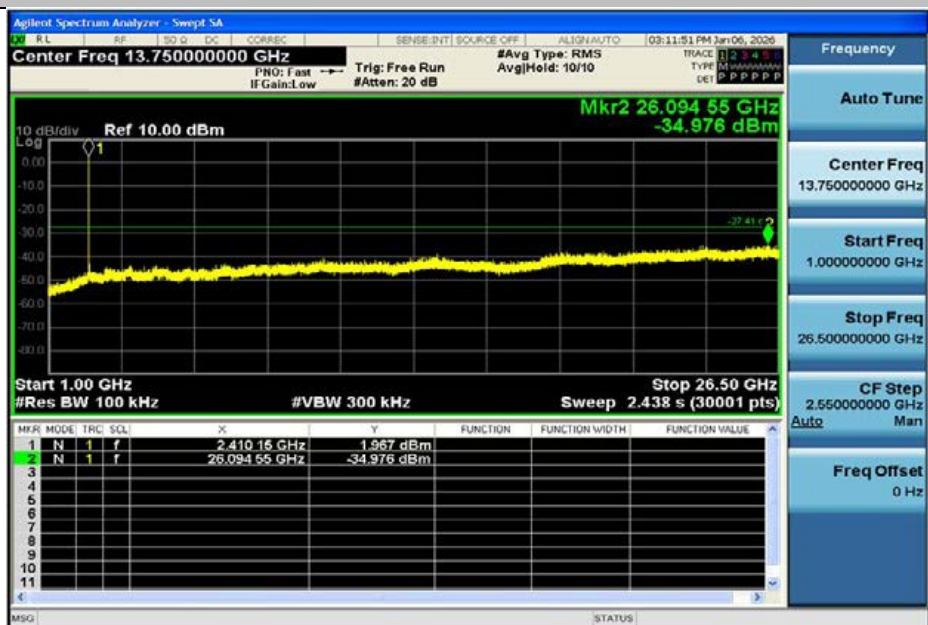
11B-CDD-Ant1-2412-30~1000-PASS



11B-CDD-Ant2-2412-30~1000-PASS



11B-CDD-Ant1-2412-1000~26500-PASS



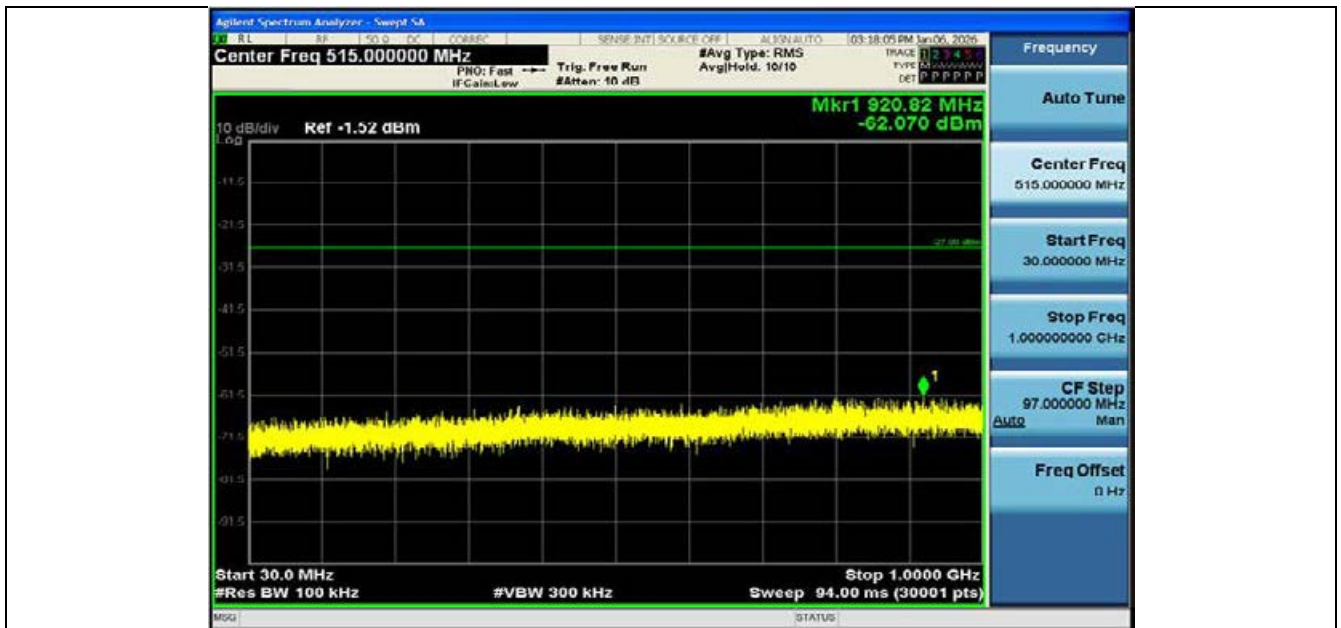
11B-CDD-Ant2-2412-1000~26500-PASS



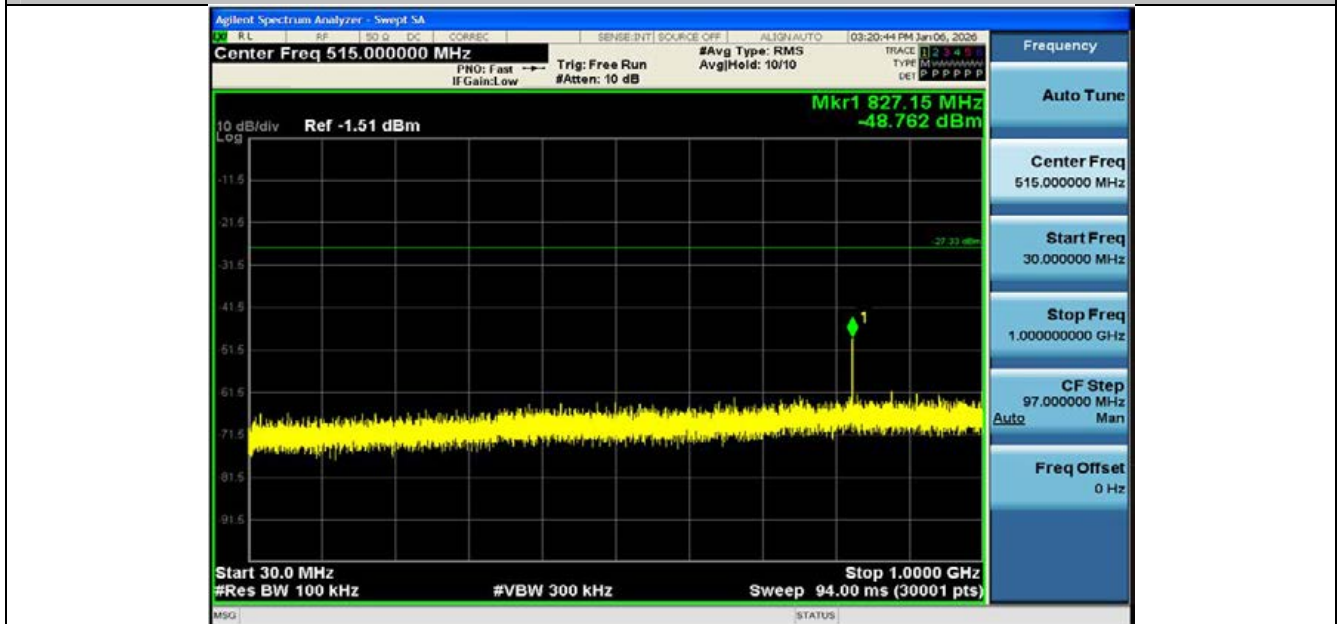
11B-CDD-Ant1-2437-0-Reference-PASS



11B-CDD-Ant2-2437-0-Reference-PASS



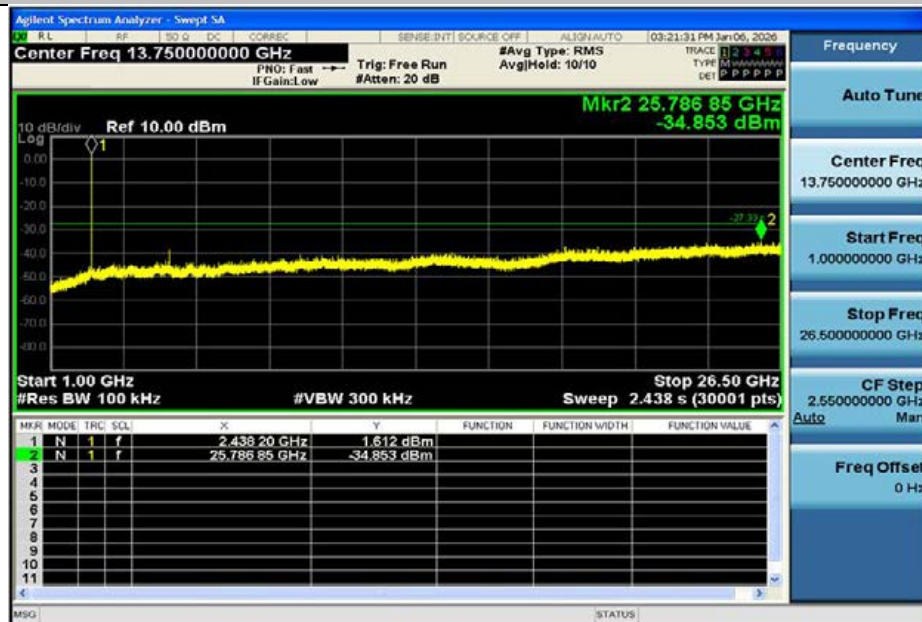
11B-CDD-Ant1-2437-30~1000-PASS



11B-CDD-Ant2-2437-30~1000-PASS



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



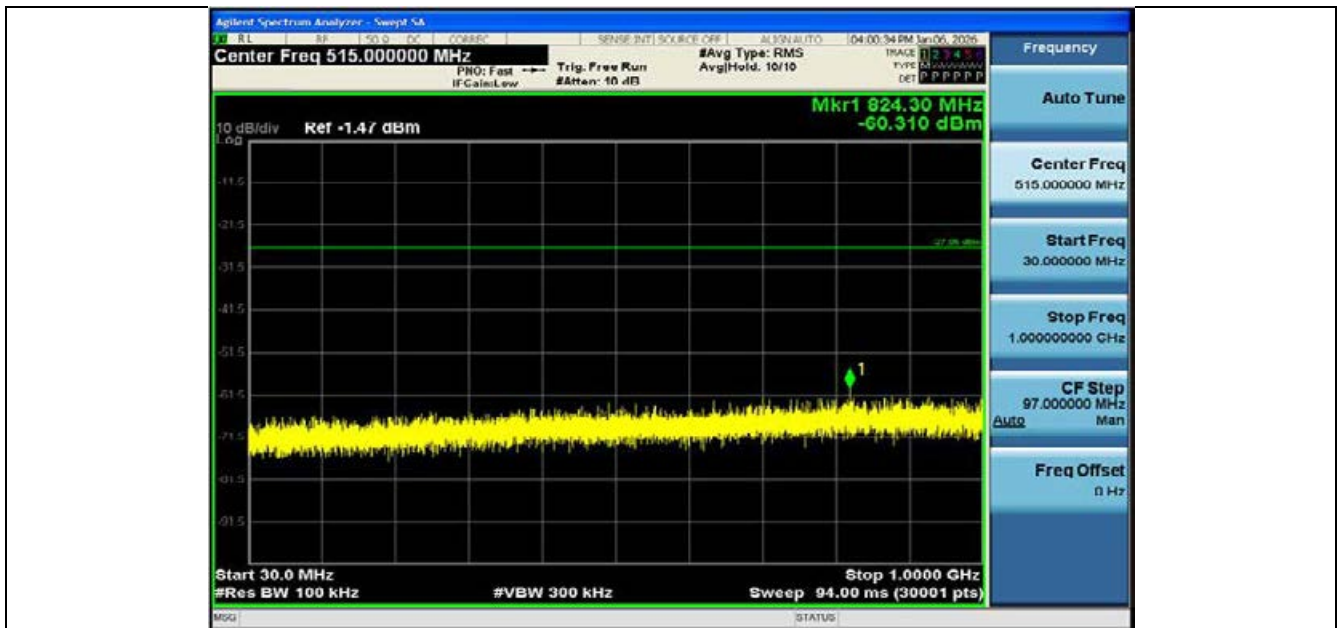
11B-CDD-Ant2-2437-1000~26500-PASS



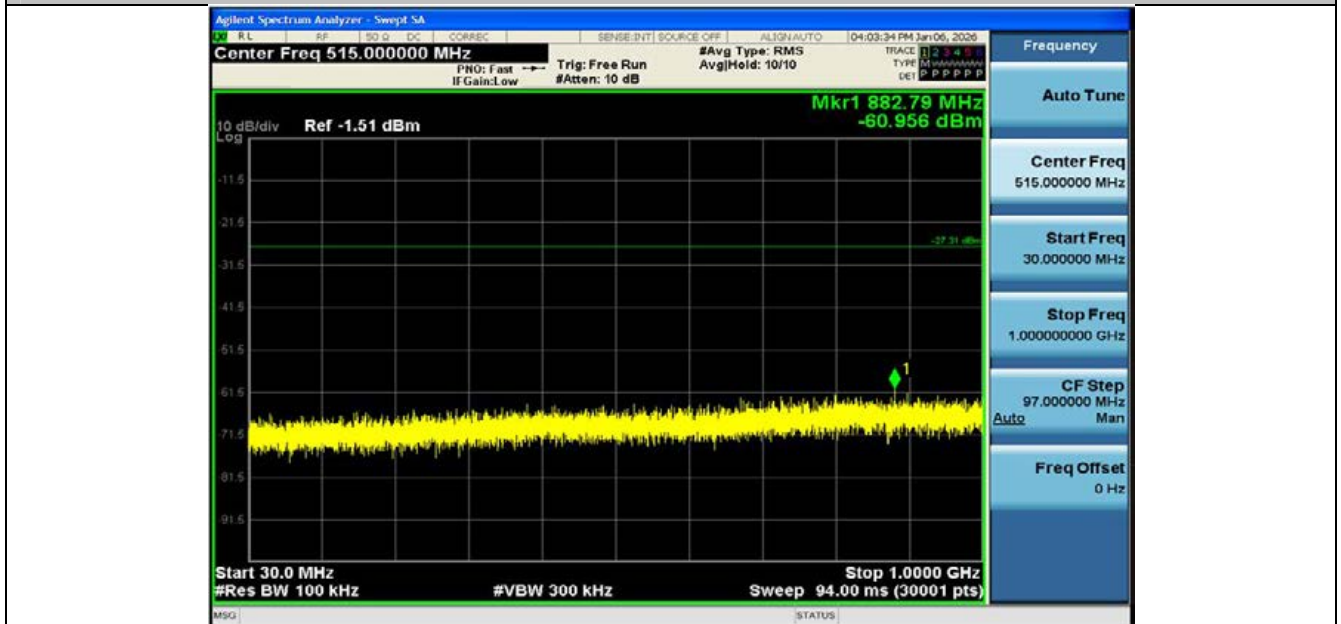
11B-CDD-Ant1-2462-0-Reference-PASS



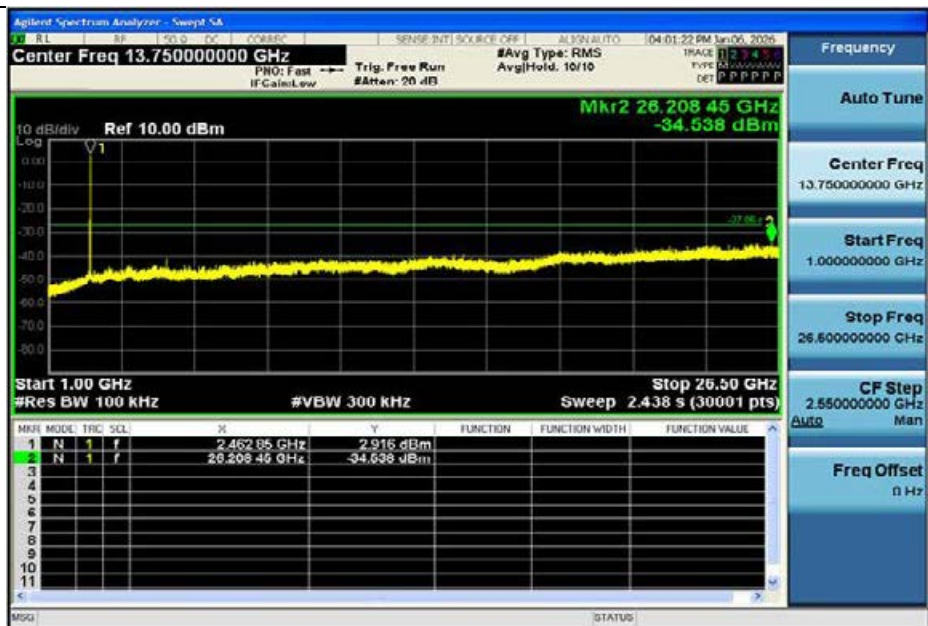
11B-CDD-Ant2-2462-0-Reference-PASS



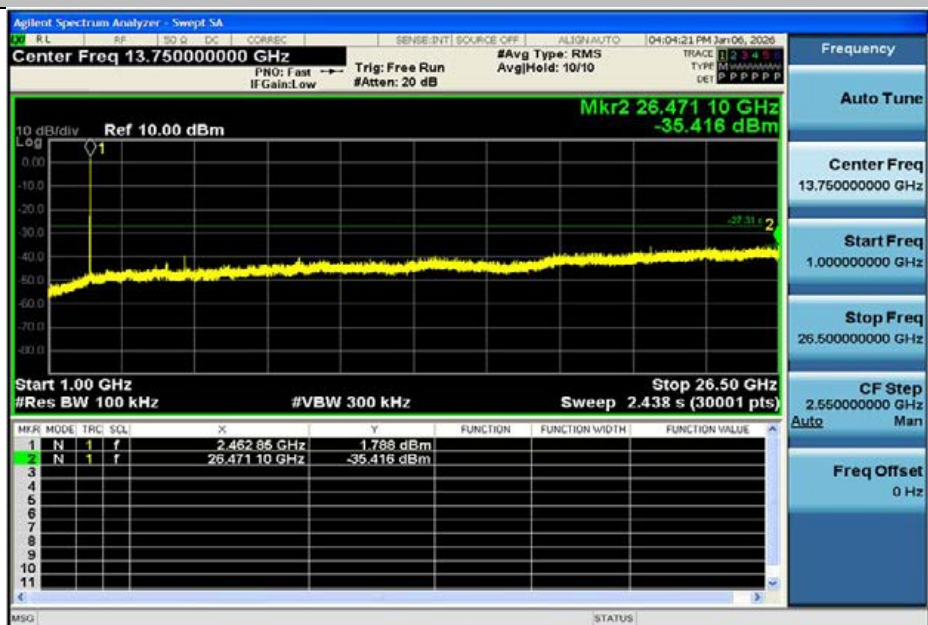
11B-CDD-Ant1-2462-30~1000-PASS



11B-CDD-Ant2-2462-30~1000-PASS



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



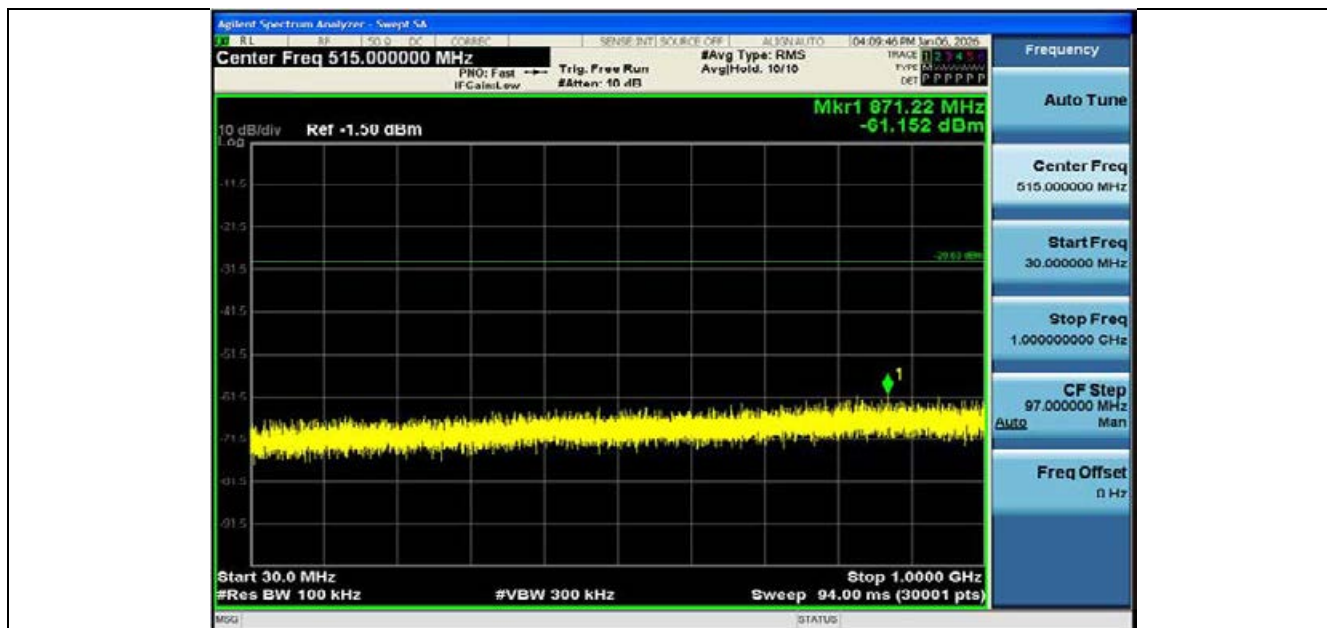
11B-CDD-Ant2-2462-1000~26500-PASS



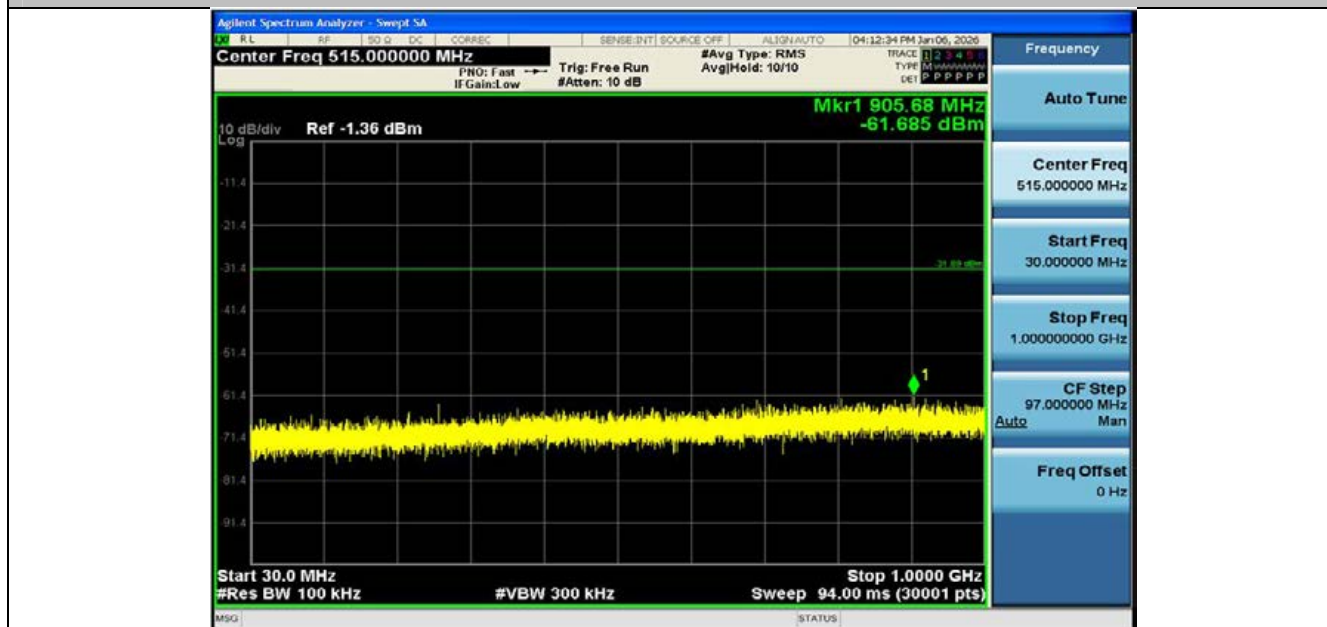
11G-CDD-Ant1-2412-0~Reference-PASS



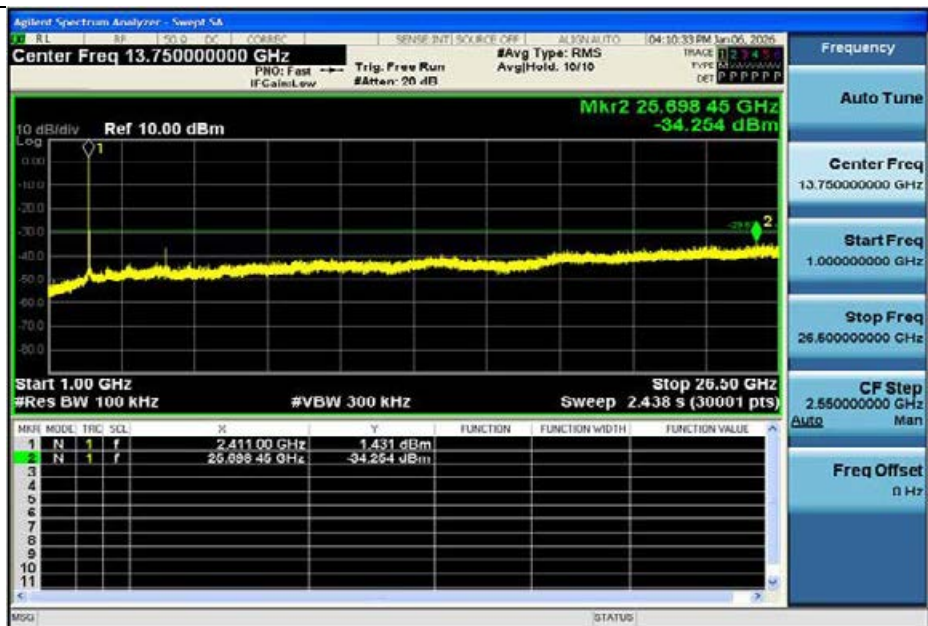
11G-CDD-Ant2-2412-0~Reference-PASS



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



11G-CDD-Ant2-2412-30~1000-PASS



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



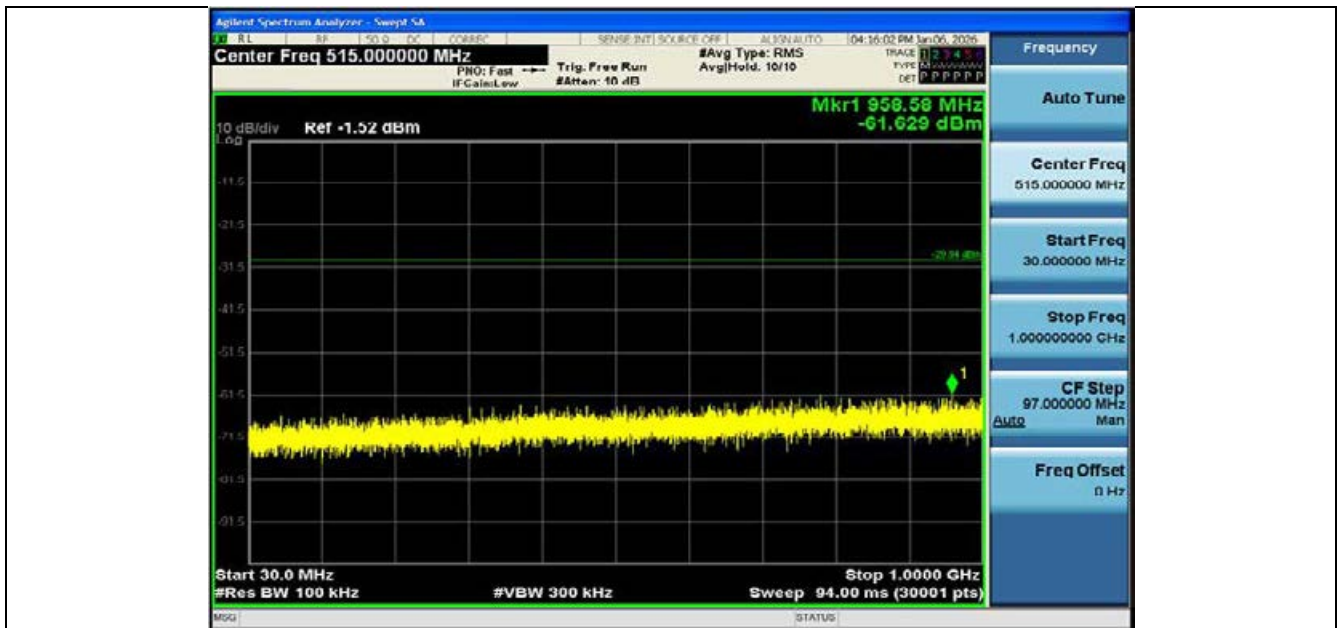
11G-CDD-Ant2-2412-1000~26500-PASS



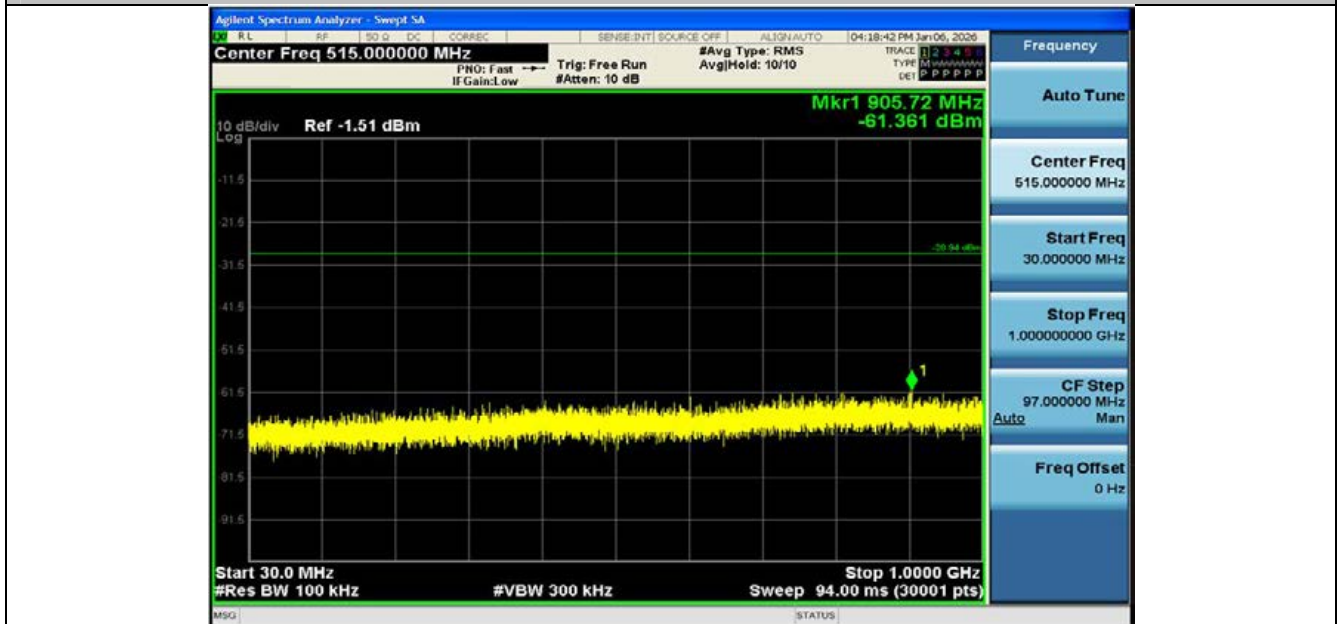
11G-CDD-Ant1-2437-0~Reference-PASS



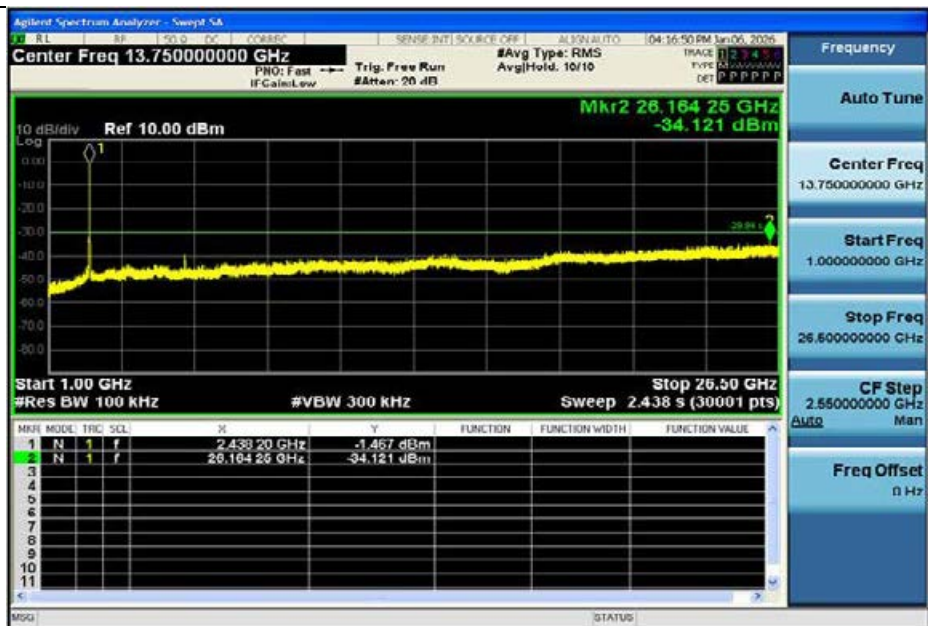
11G-CDD-Ant2-2437-0~Reference-PASS



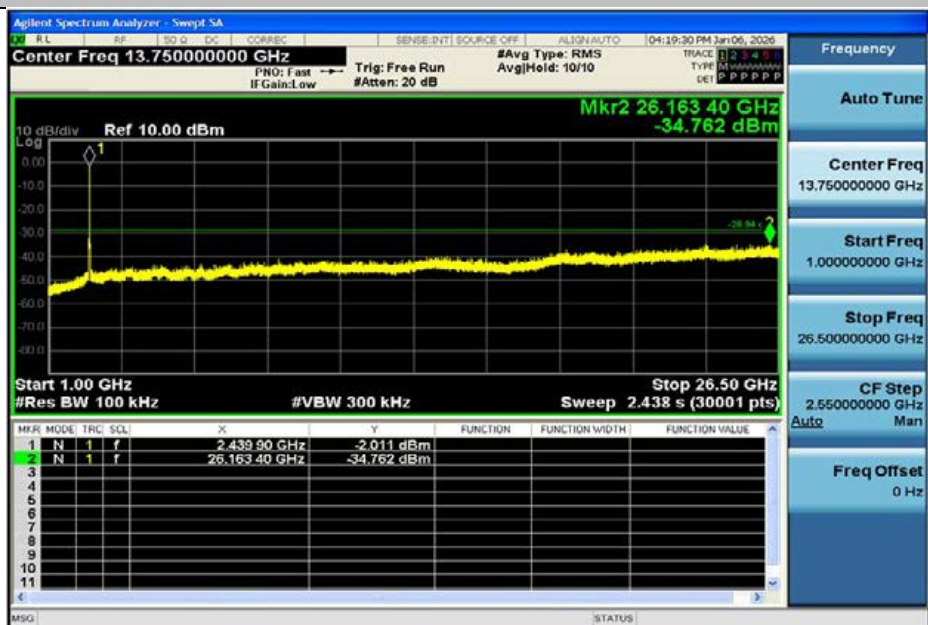
11G-CDD-Ant1-2437-30~1000-PASS



11G-CDD-Ant2-2437-30~1000-PASS



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



11G-CDD-Ant2-2437-1000~26500-PASS



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



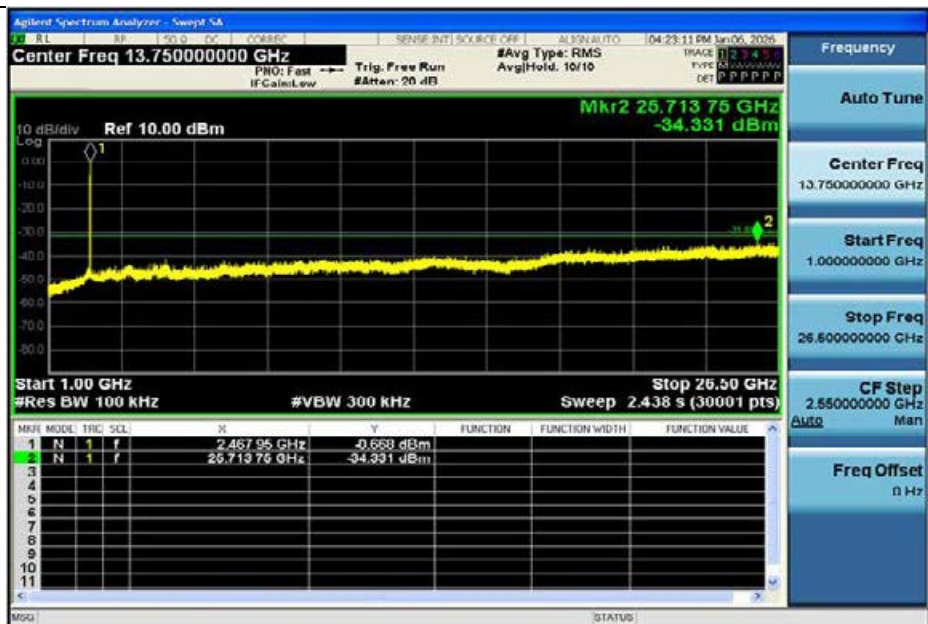
11G-CDD-Ant2-2462-0~Reference-PASS



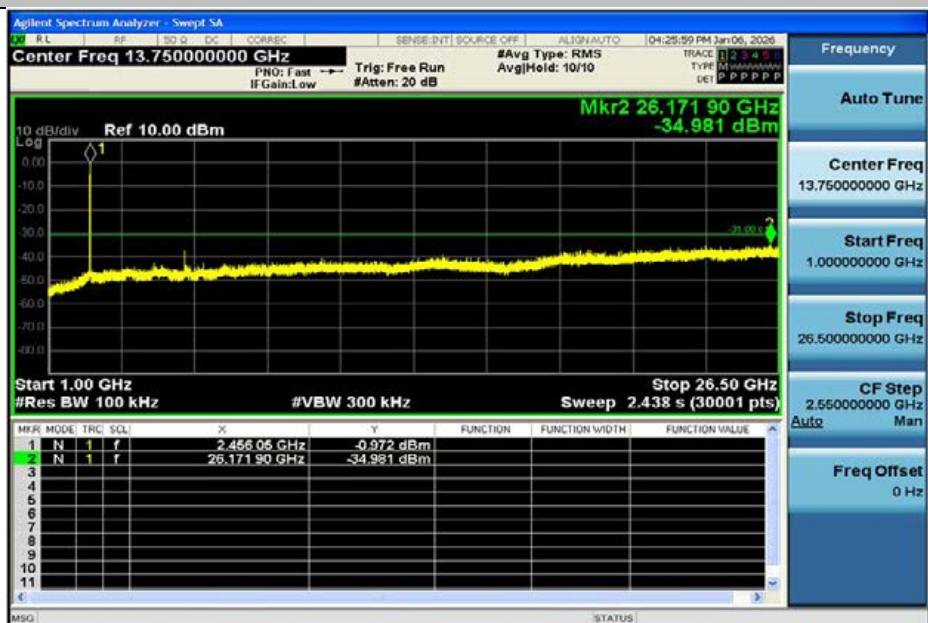
11G-CDD-Ant1-2462-30~1000-PASS



11G-CDD-Ant2-2462-30~1000-PASS



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



11G-CDD-Ant2-2462-1000~26500-PASS



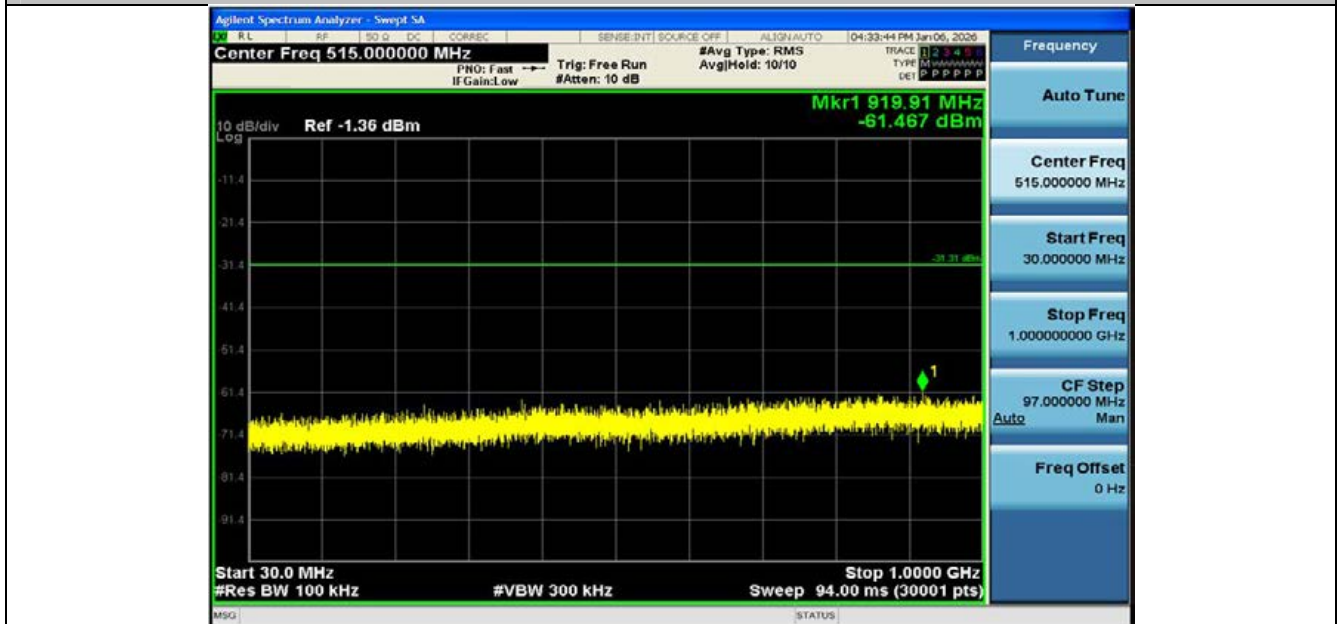
11N20MIMO-Ant1-2412-0~Reference-PASS



11N20MIMO-Ant2-2412-0~Reference-PASS



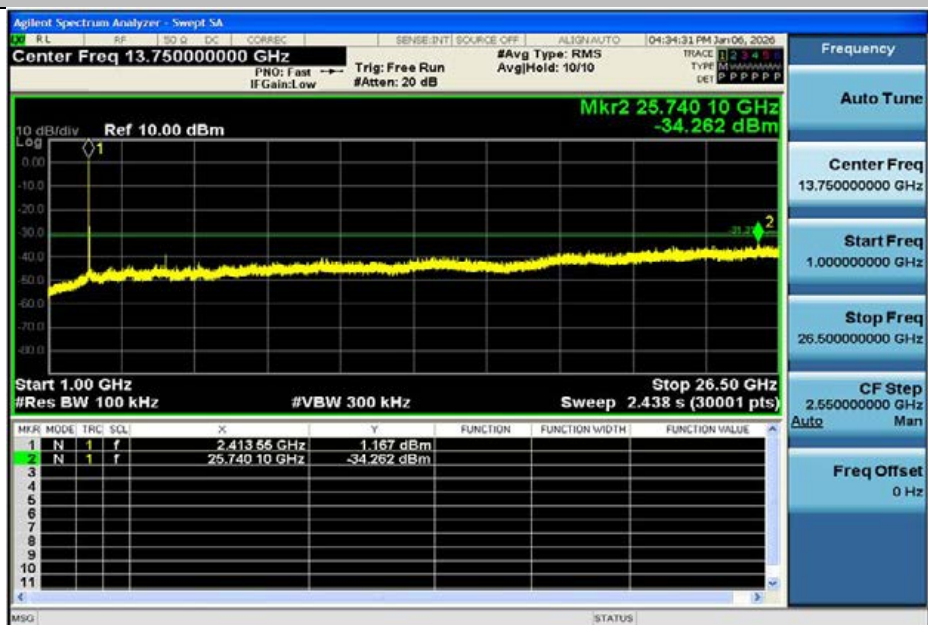
11N20MIMO-Ant1-2412-30~1000-PASS



11N20MIMO-Ant2-2412-30~1000-PASS



11N20MIMO-Ant1-2412-1000~26500-PASS



11N20MIMO-Ant2-2412-1000~26500-PASS



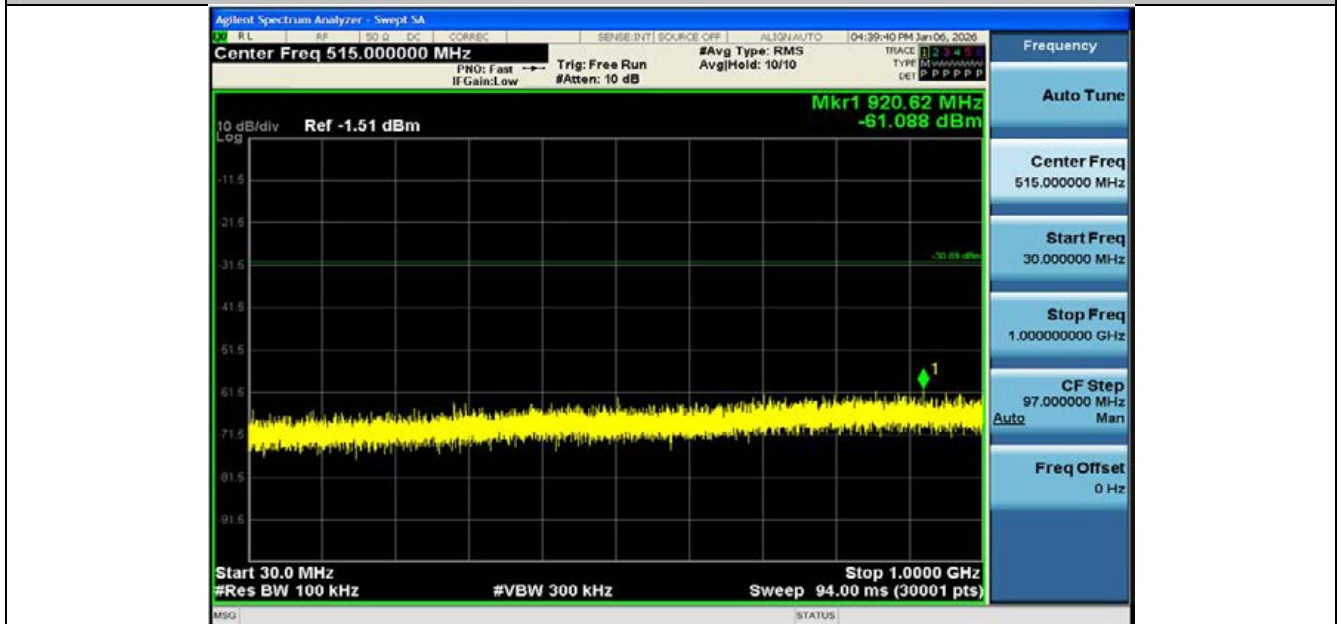
11N20MIMO-Ant1-2437-0-Reference-PASS



11N20MIMO-Ant2-2437-0-Reference-PASS



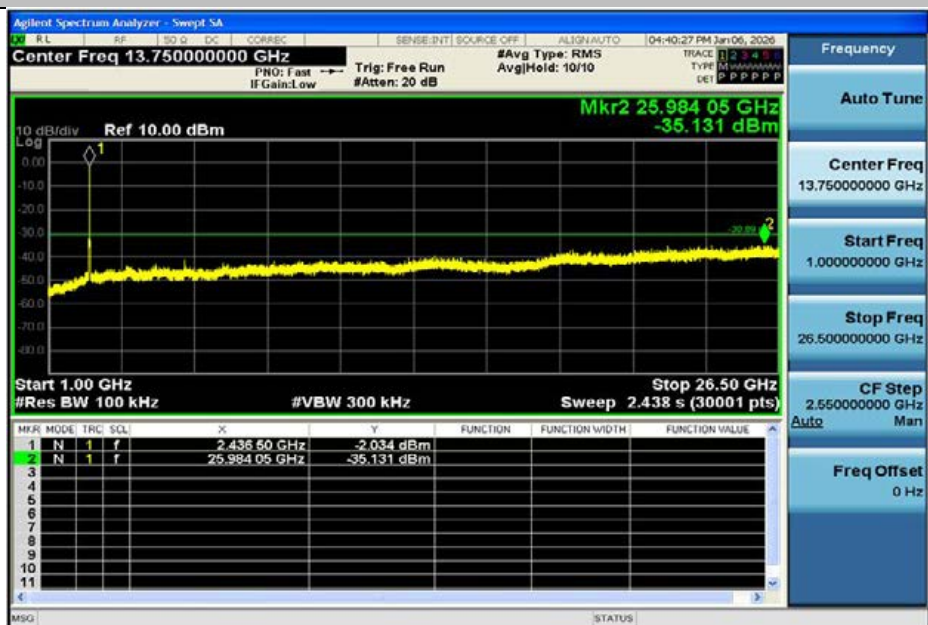
11N20MIMO-Ant1-2437-30~1000-PASS



11N20MIMO-Ant2-2437-30~1000-PASS



11N20MIMO-Ant1-2437-1000~26500-PASS



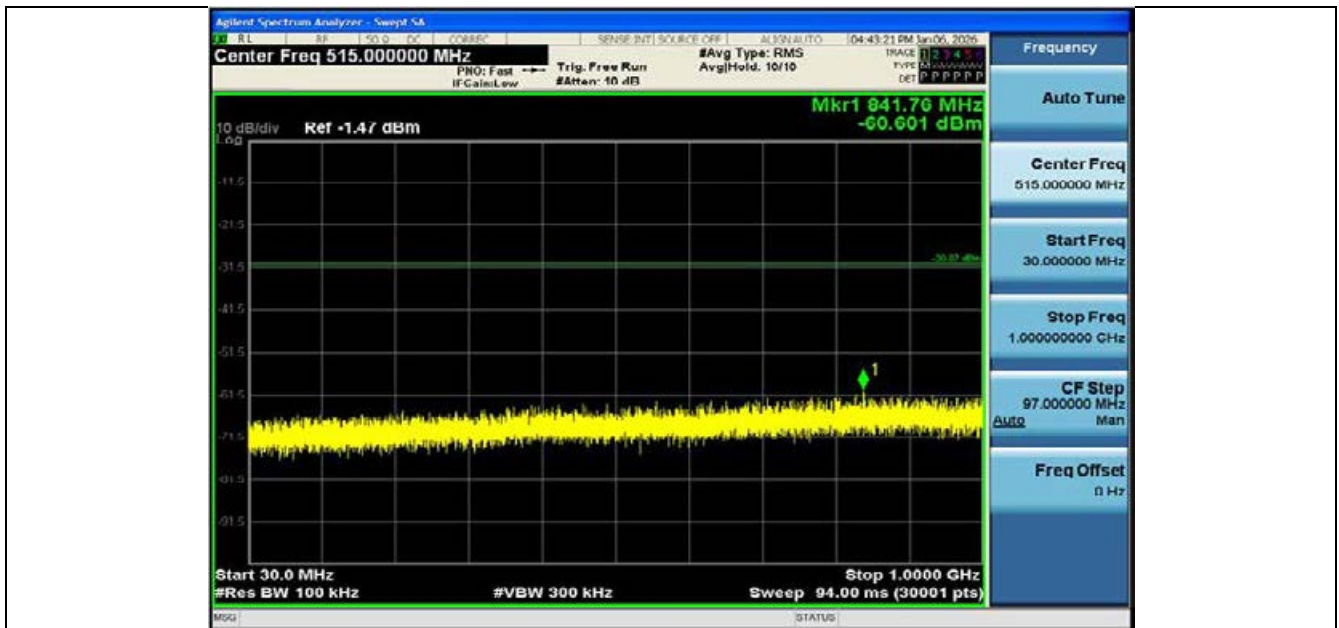
11N20MIMO-Ant2-2437-1000~26500-PASS



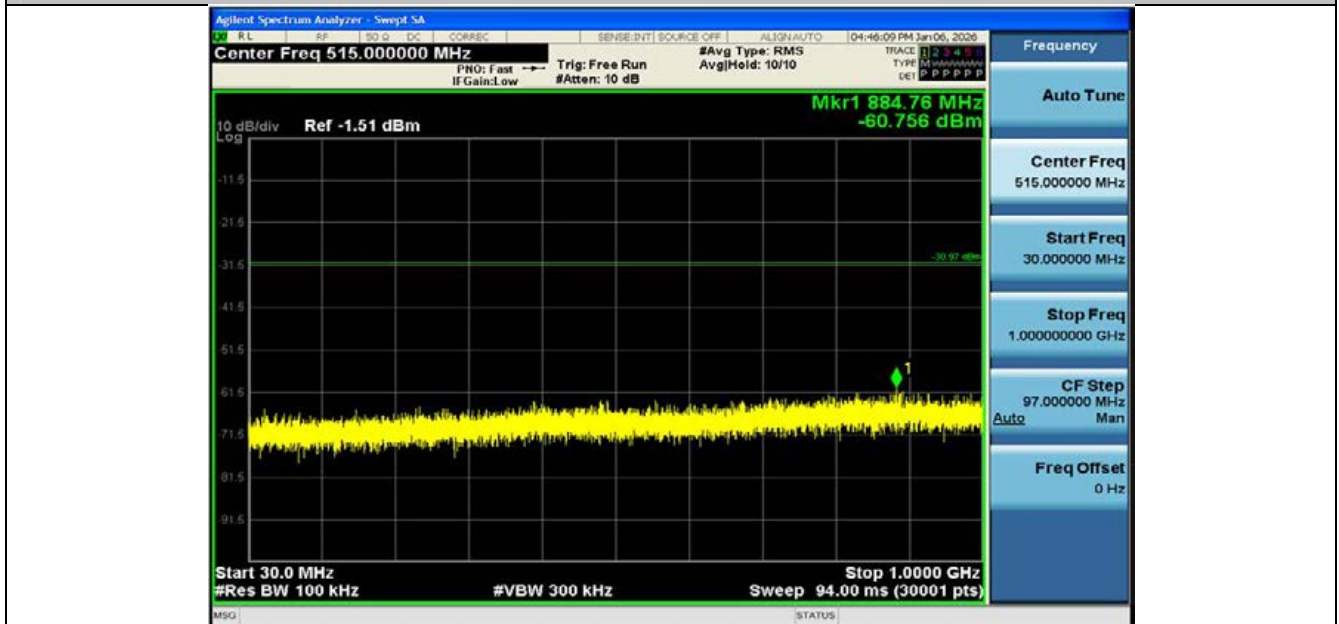
11N20MIMO-Ant1-2462-0-Reference-PASS



11N20MIMO-Ant2-2462-0-Reference-PASS



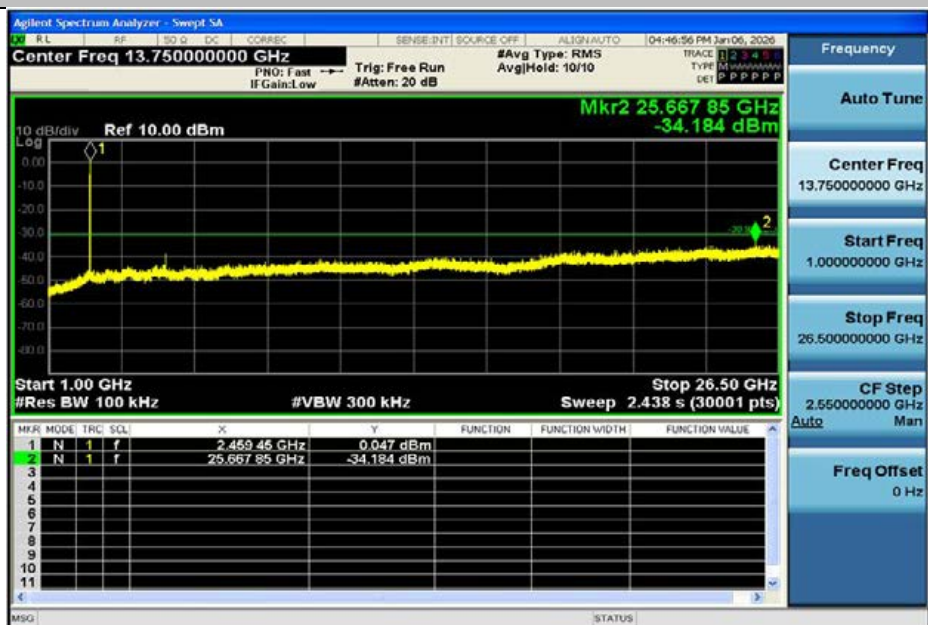
11N20MIMO-Ant1-2462-30~1000-PASS



11N20MIMO-Ant2-2462-30~1000-PASS



11N20MIMO-Ant1-2462-1000~26500-PASS



11N20MIMO-Ant2-2462-1000~26500-PASS



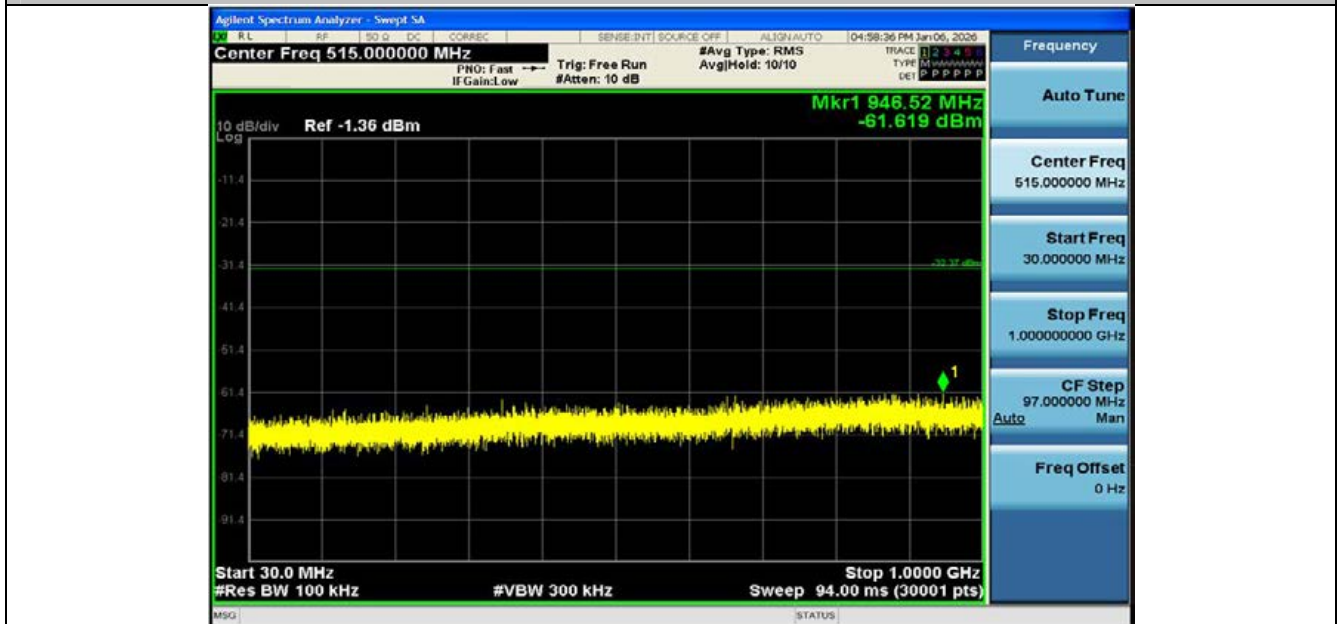
11N40MIMO-Ant1-2422-0~Reference-PASS



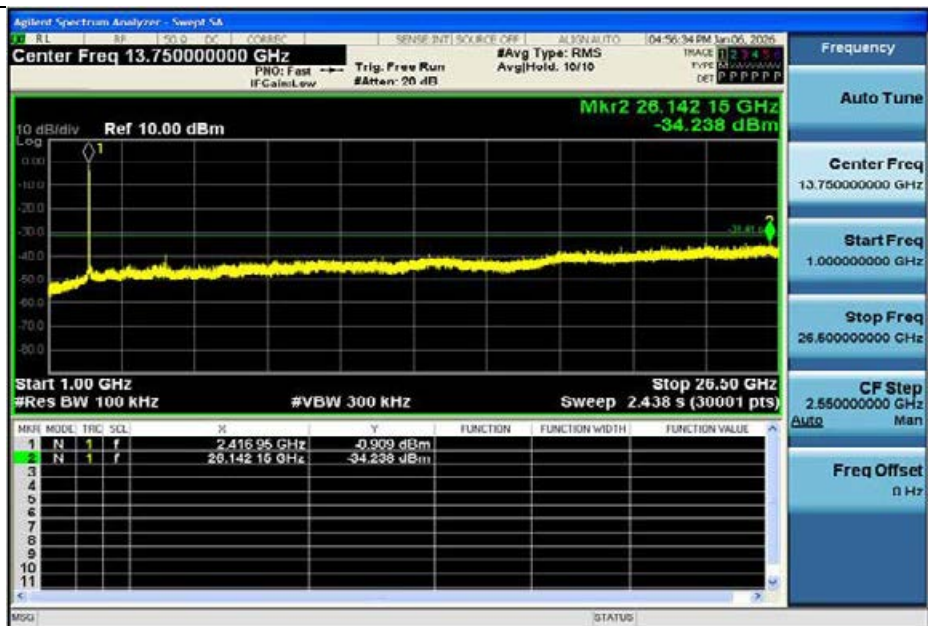
11N40MIMO-Ant2-2422-0~Reference-PASS



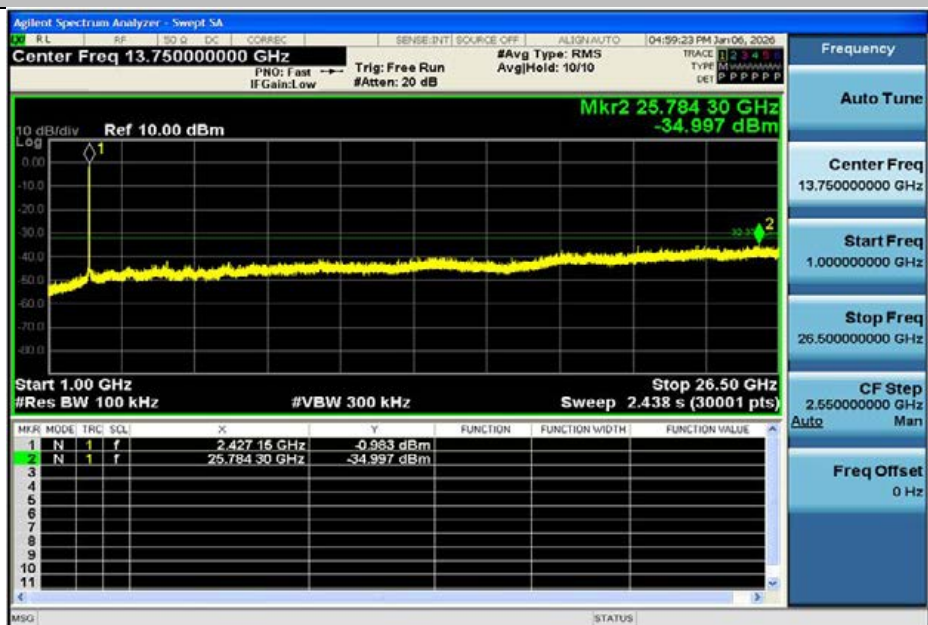
11N40MIMO-Ant1-2422-30~1000-PASS



11N40MIMO-Ant2-2422-30~1000-PASS



11N40MIMO-Ant1-2422-1000~26500-PASS



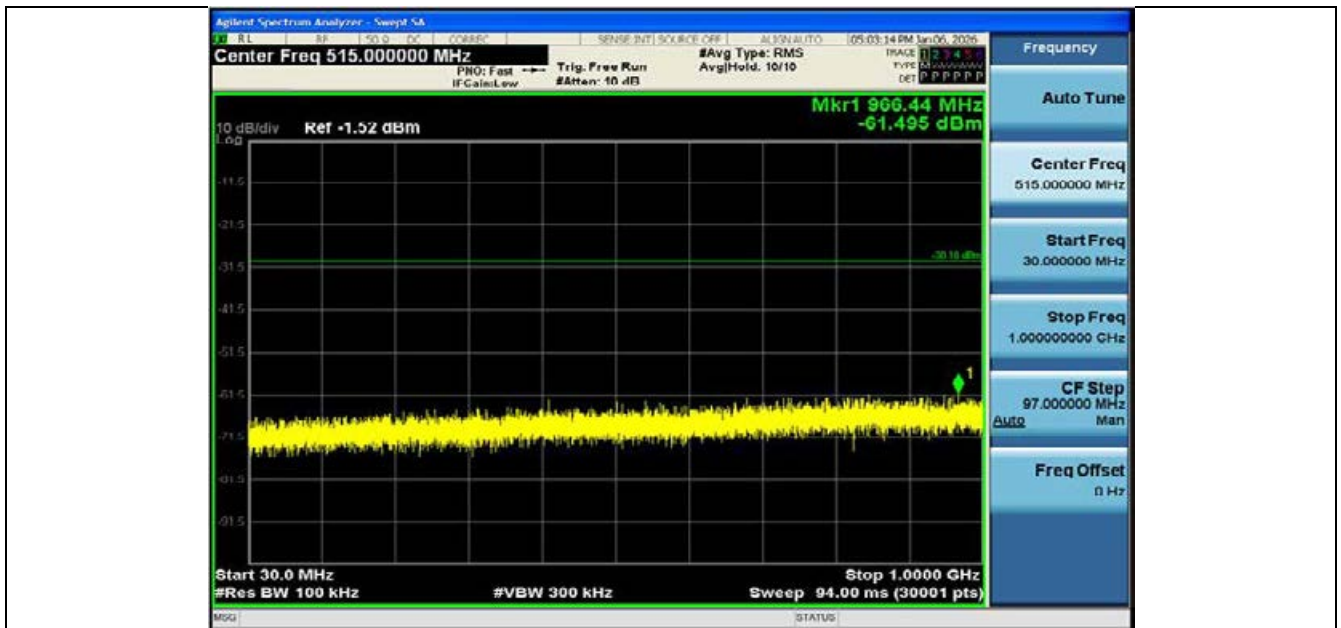
11N40MIMO-Ant2-2422-1000~26500-PASS



11N40MIMO-Ant1-2437-0-Reference-PASS



11N40MIMO-Ant2-2437-0-Reference-PASS



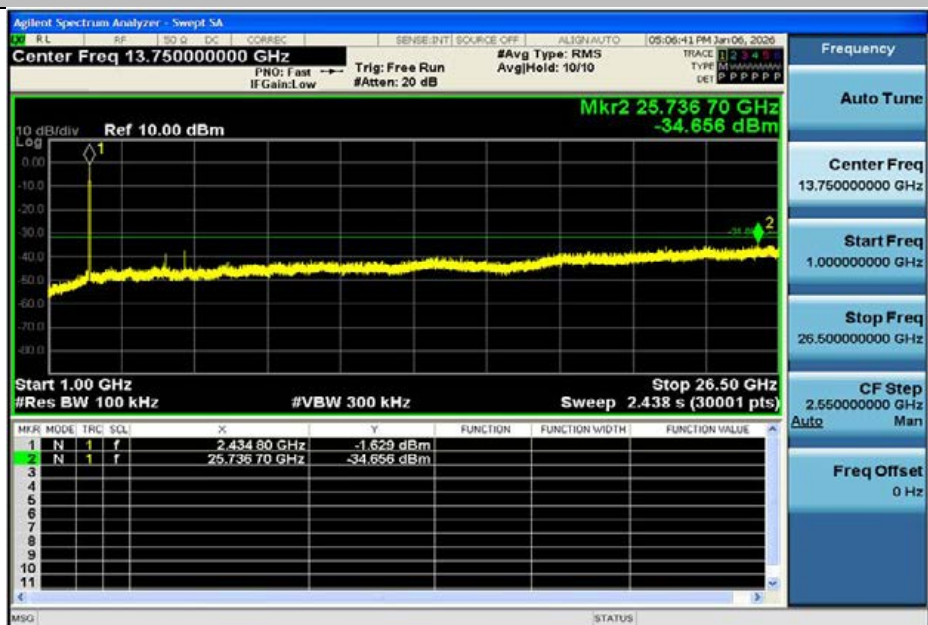
11N40MIMO-Ant1-2437-30~1000-PASS



11N40MIMO-Ant2-2437-30~1000-PASS



11N40MIMO-Ant1-2437-1000~26500-PASS



11N40MIMO-Ant2-2437-1000~26500-PASS



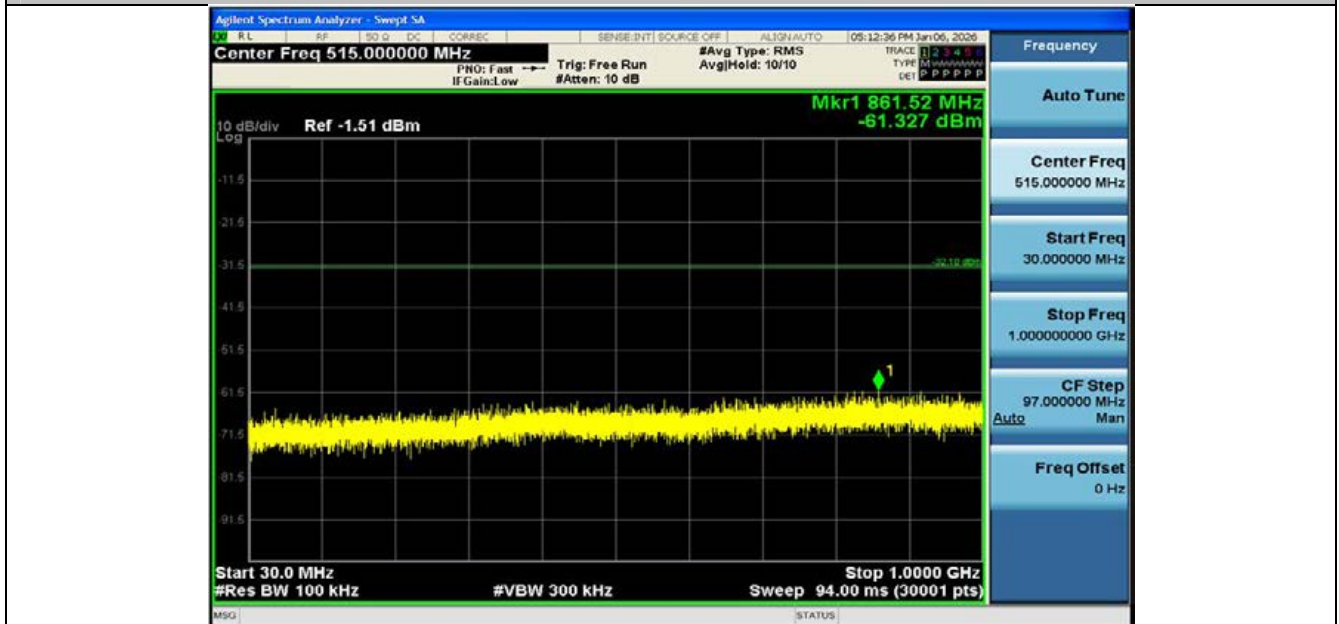
11N40MIMO-Ant1-2452-0~Reference-PASS



11N40MIMO-Ant2-2452-0~Reference-PASS



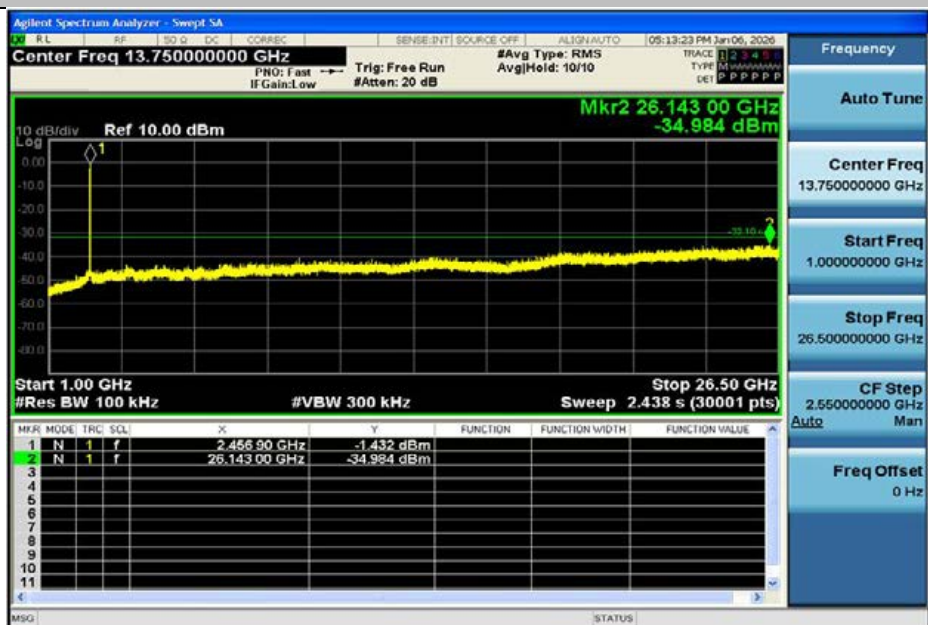
11N40MIMO-Ant1-2452-30~1000-PASS



11N40MIMO-Ant2-2452-30~1000-PASS



11N40MIMO-Ant1-2452-1000~26500-PASS



11N40MIMO-Ant2-2452-1000~26500-PASS



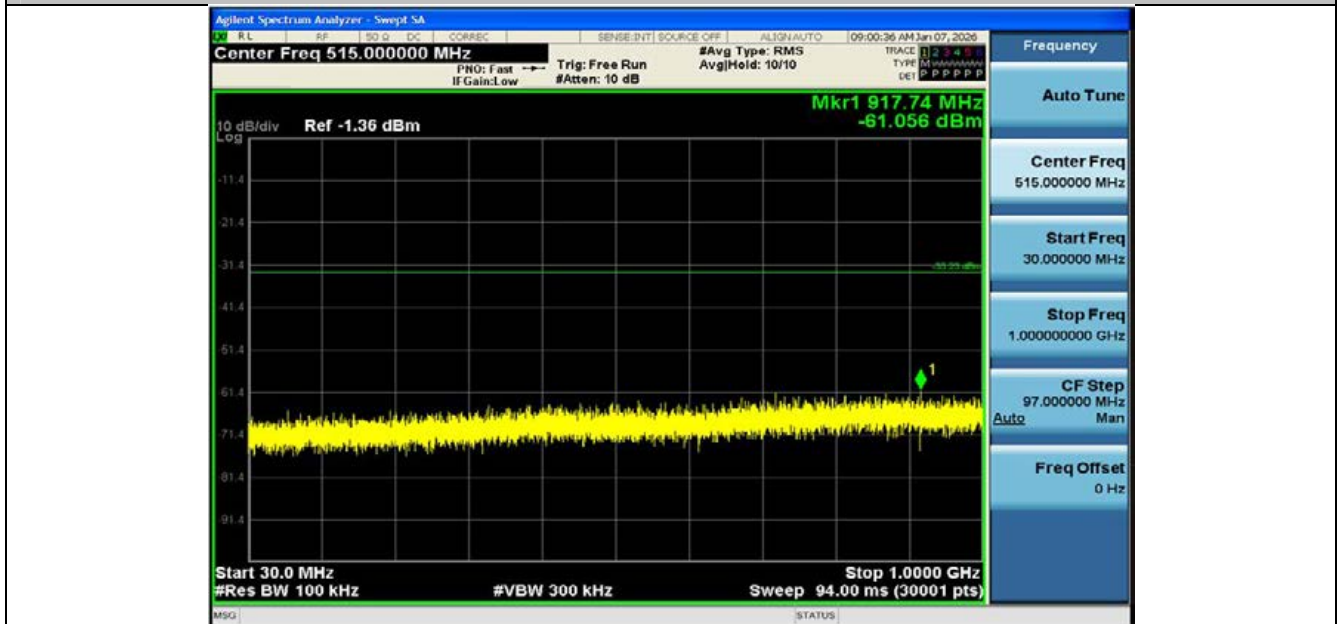
11AX20MIMO-Ant1-2412-0~Reference-PASS



11AX20MIMO-Ant2-2412-0~Reference-PASS



11AX20MIMO-Ant1-2412-30~1000-PASS



11AX20MIMO-Ant2-2412-30~1000-PASS



11AX20MIMO-Ant1-2412-1000~26500-PASS



11AX20MIMO-Ant2-2412-1000~26500-PASS



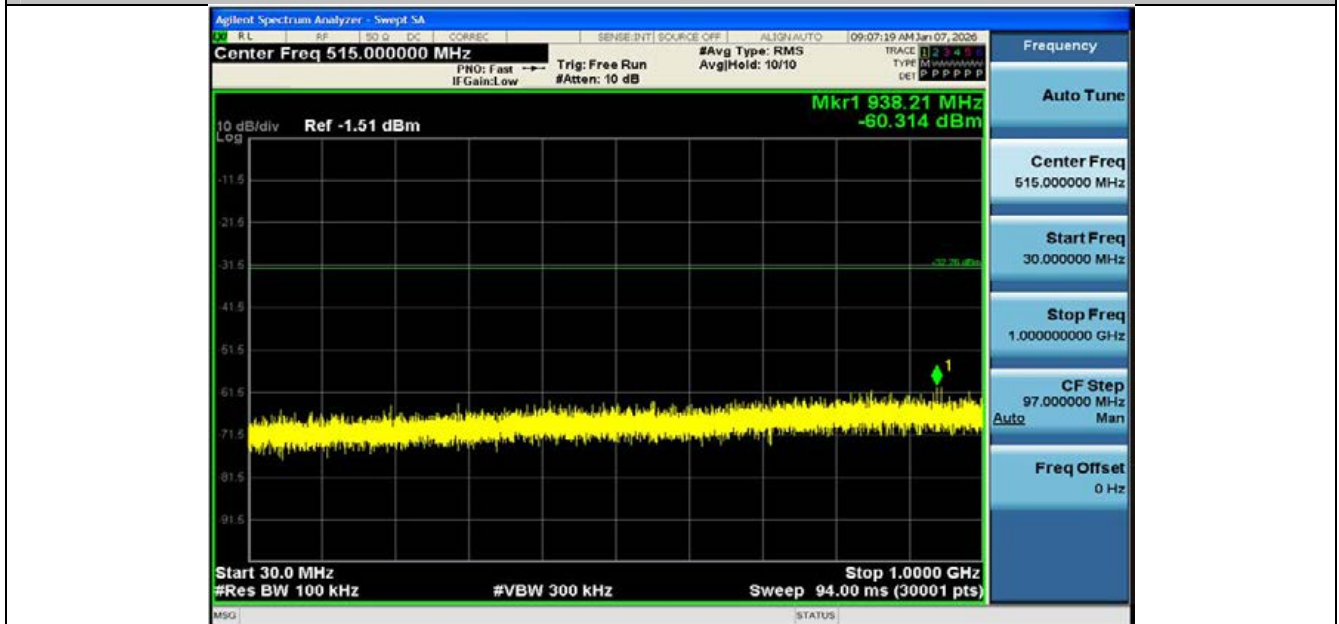
11AX20MIMO-Ant1-2437-0~Reference-PASS



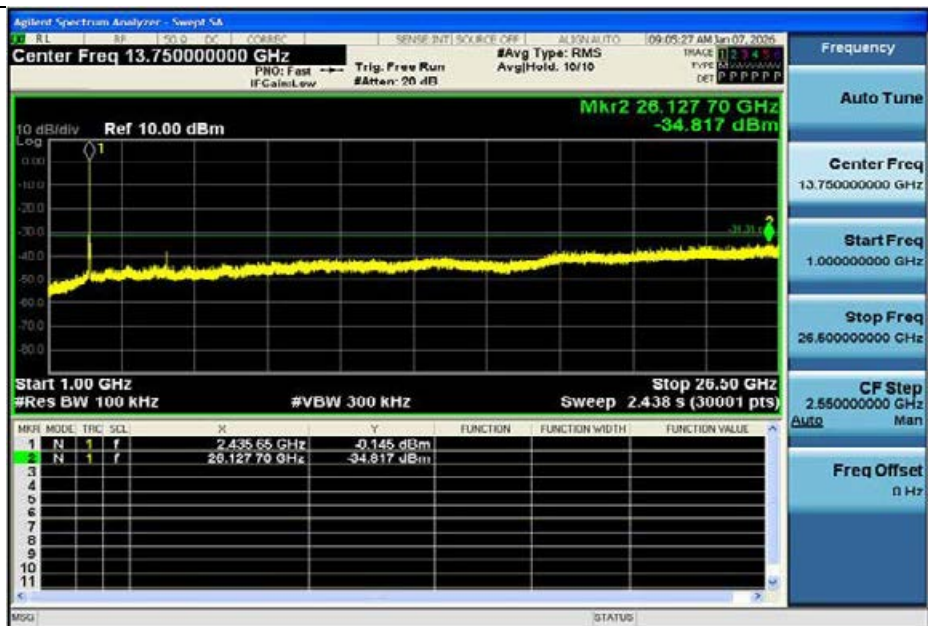
11AX20MIMO-Ant2-2437-0~Reference-PASS



11AX20MIMO-Ant1-2437-30~1000-PASS



11AX20MIMO-Ant2-2437-30~1000-PASS



11AX20MIMO-Ant1-2437-1000~26500-PASS



11AX20MIMO-Ant2-2437-1000~26500-PASS



11AX20MIMO-Ant1-2462-0~Reference-PASS



11AX20MIMO-Ant2-2462-0~Reference-PASS