Radio Test Report

Report No.:STS2403107W02

Issued for

GEMMY INDUSTRIES (HK)LIMITED BVI

Unit No.301 on 3rd Floor, East Ocean Centre, No.98, Kowloon, Hong Kong

Product Name:	Orchestra of Lights-Lightshow Projection
Brand Name:	N/A
Model Name:	883104
Series Model(s):	N/A
FCC ID:	GPO883104B
Test Standards:	FCC Part15.247

The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Shenzhen STS Test Services Co., Ltd.



TEST REPORT

Applicant's Name	GEMMY INDUSTRIES (HK)LIMITED BVI
Address	Unit No.301 on 3rd Floor, East Ocean Centre, No.98, Kowloon, Hong Kong
Manufacturer's Name	GEMMY INDUSTRIES (HK)LIMITED BVI
Address	Unit No.301 on 3rd Floor, East Ocean Centre, No.98, Kowloon, Hong Kong
Factory1	ZAIXING ELECTRONIC (SHENZHEN) CO., LTD
Address	No. 1 and 3, 1st Road Yang Yong, Tangxiayong Community, Yanluo Street, Bao'an District, Shenzhen City, Guangdong Province, China
Factory2	YUQI ELECTRONIC (HUAIBEI) CO., LTD
Address	32 fengguan road, xiangshan district, Huaibei city, Anhui province, China
Factory3	XINGYU ELECTRONIC (HUIZHOU) CO., LTD
Address	Hengjiangwei Village, Yihe Town, Boluo County, Huizhou City, Guangdong Province, China
Factory4	QIYANG TECHNOLOGY (HUAIBEI) CO., LTD
Address	32 Fengguan road, xiangshan district, Huaibei city, Anhui province
Factory5	YUAN HONG COMPANY LIMITED No. 3 Street, My Xuan A Industrial Zone, My Xuan Ward, Phu My
Address	Town, Ba Ria-Vung Tau province, Vietnam
Factory6	DYNATECH LIGHTING TECHNOLOGY CO., LTD
Address	GIGA RESOURCE SPECIAL ECONOMIC ZONE, NATIONAL ROAD NO.1, DERM POU VILLAGE, REAY COMMUNE, SVAY
Address	TEAP DISTRICT, SVAY RIENG PROVINCE, CAMBODIA
Product Description	
Floddet Description	
Product Name:	Orchestra of Lights-Lightshow Projection
Brand Name:	N/A
Model Name:	883104
Series Model(s)	N/A
Test Standards	FCC Part15.247

Test Procedure: ANSI C63.10-2020

This device described above has been tested by STS, 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.

The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Shenzhen STS Test Services Co., Ltd.

Date of Test.....

Date of receipt of test item:: 14 Mar. 2024

Date (s) of performance of tests : 14 Mar. 2024 ~ 30 Apr. 2024

Date of Issue: 30 Apr. 2024

Test Result: Pass



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Revision History

Rev.	Issue Date	Report No.	Effect Page	Contents
00	30 Apr. 2024	STS2403107W02	ALL	Initial Issue
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1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards: KDB 558074 D01 15.247 Meas Guidance v05r02.

FCC Part 15.247,Subpart C				
Standard Section	Test Item	Judgment	Remark	
15.207	Conducted Emission	PASS		
15.247(a)(1)	Hopping Channel Separation	PASS		
15.247(a)(1)&(b)(1)	Output Power	PASS		
15.209	Radiated Spurious Emission	PASS		
15.247(d)	Conducted Spurious & Band Edge Emission	PASS	-	
15.247(a)(1)(iii)	Number of Hopping Frequency	PASS	-	
15.247(a)(1)(iii)	Dwell Time	PASS		
15.247(a)(1)	Bandwidth	PASS		
15.205	Restricted bands of operation	PASS		
Part 15.247(d)/part 15.209(a)	Band Edge Emission	PASS	-	
15.203	Antenna Requirement	PASS	9	

NOTE:

(1) 'N/A' denotes test is not applicable in this Test Report.

(2) All tests are according to ANSI C63.10-2020.



1.1 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD Add. : 101, Building B, Zhuoke Science Park, No.190 Chongqing Road, ZhanChengShequ, Fuhai Sub-District, Bao'an District, Shenzhen, Guang Dong, China FCC test Firm Registration Number: 625569 IC test Firm Registration Number: 12108A A2LA Certificate No.: 4338.01

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1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	RF output power, conducted	±0.755dB
2	Unwanted Emissions, conducted	±2.874dB
3	All emissions, radiated 9K-30MHz	±3.80dB
4	All emissions, radiated 30M-1GHz	±4.18dB
5	All emissions, radiated 1G-6GHz	±4.90dB
6	All emissions, radiated>6G	±5.24dB
7	Conducted Emission (9KHz-150KHz)	±2.19dB
8	Conducted Emission (150KHz-30MHz)	±2.53dB
9	Occupied Channel Bandwidth	±3.5%
10	Duty Cycle	±3.2%



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name	Orchestra of Lights-Lightshow Projection
Brand Name	N/A
Model Name	883104
Series Model(s)	N/A
Model Difference	N/A
Channel List	Please refer to the Note 3.
Bluetooth	Frequency:2402 – 2480 MHz Modulation: GFSK(1Mbps), π/4-DQPSK(2Mbps), 8DPSK(3Mbps)
Bluetooth Configuration	BR+EDR
Antenna Type	РСВ
Antenna Gain	3 dBi
Rating	Input: AC 120V
Hardware version number	883104-USA (V2)
Software version number	883104-USA (V2)
Connecting I/O Port(s)	Please refer to the Note 1.
	-

Note:

- 1. For a more detailed features description, please refer to the manufacturer's specifications or the User Manual.
- 2. The antenna information refer the manufacturer provide report, applicable only to the tested sample identified in the report. Due to the incorrect antenna information, a series of problems such as the accuracy of the test results will be borne by the customer.



3.

		Chanı	nel List		
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	27	2429	54	2456
01	2403	28	2430	55	2457
02	2404	29	2431	56	2458
03	2405	30	2432	57	2459
04	2406	31	2433	58	2460
05	2407	32	2434	59	2461
06	2408	33	2435	60	2462
07	2409	34	2436	61	2463
08	2410	35	2437	62	2464
09	2411	36	2438	63	2465
10	2412	37	2439	64	2466
11	2413	38	2440	65	2467
12	2414	39	2441	66	2468
13	2415	40	2442	67	2469
14	2416	41	2443	68	2470
15	2417	42	2444	69	2471
16	2418	43	2445	70	2472
17	2419	44	2446	71	2473
18	2420	45	2447	72	2474
19	2421	46	2448	73	2475
20	2422	47	2449	74	2476
21	2423	48	2450	75	2477
22	2424	49	2451	76	2478
23	2425	50	2452	77	2479
24	2426	51	2453	78	2480
25	2427	52	2454		
26	2428	53	2455		



2.2 DESCRIPTION OF THE TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Worst Mode	Description	Data Rate/Modulation
Mode 1	TX CH00	1Mbps/GFSK
Mode 2	TX CH39	1Mbps/GFSK
Mode 3	TX CH78	1Mbps/GFSK
Mode 4	TX CH00	2 Mbps/π/4-DQPSK
Mode 5	TX CH39	2 Mbps/π/4-DQPSK
Mode 6	TX CH78	2 Mbps/π/4-DQPSK
Mode7	TX CH00	3 Mbps/8DPSK
Mode 8	TX CH39	3 Mbps/8DPSK
Mode 9	TX CH78	3 Mbps/8DPSK
Mode 10	Hopping	GFSK
Mode 11	Hopping	π/4-DQPSK
Mode 12	Hopping	8DPSK

Note:

(1) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported.

(2) We tested for all available U.S. voltage and frequencies (For 120V, 50/60Hz and 240V, 50/60Hz) for which the device is capable of operation, and the worst case of 120V/ 60Hz is shown in the report.

(3) The battery is fully-charged during the radiated and RF conducted test.

For AC Conducted Emission

	Test Case
AC Conducted Emission	Mode 13 : Keeping BT TX

2.3 FREQUENCY HOPPING SYSTEM REQUIREMENTS

(1)Standard and Limit

According to FCC Part 15.247(a)(1), The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

Frequency hopping spread spectrum systems are not required to employ all available hopping channels during each transmission. However, the system, consisting of both the transmitter and the receiver, must be designed to comply with all of the regulations in this section should the transmitter be presented with a continuous data (or information) stream. In addition, a system employing short transmission bursts must comply with the definition of a frequency hopping system and must distribute its transmissions over the minimum number of hopping channels specified in this section.

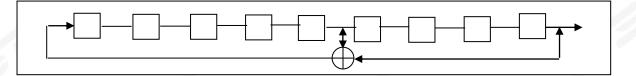


The incorporation of intelligence within a frequency hopping spread spectrum system that permits the system to recognize other users within the spectrum band so that it individually and independently chooses and adapts its hop sets to avoid hopping on occupied channels is permitted. The coordination of frequency hopping systems in any other manner for the express purpose of avoiding the simultaneous occupancy of individual hopping frequencies by multiple transmitters is not permitted.

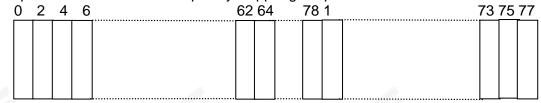
(2)The Pseudorandom sequence may be generated in a nin-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first one of 9 consecutive ones: i.e. the shift register is initialized with nine ones.

Numver of shift register stages:9

Length of pseudo-random sequence:29-1=511bits Longest sequence of zeros: 8(non-inverted signal)



Liner Feedback Shift Register for Generator of the PRBS sequence An example of Pseudorandom Frequency Hoppong Sequence as follow:



Each frequency used equally on the average by each transmitter. The system receivers have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shift frequencies ini synchronization with the transmitted signals.

(3) Frequency Hopping System

This transmitter device is frequency hopping device, and complies with FCC part 15.247 rule.

This device uses Bluetooth radio which operates in 2400-2483.5 MHz band. Bluetooth uses a radio technology called frequency-hopping spread spectrum, which chops up the data being sent and transmits chunks of it on up to 79 bands (1 MHz each; centred from 2402 to 2480 MHz) in the range 2,400-2,483.5MHz. The transmitter switches hop frequencies 1,600 times per second to assure a high degree of data security. All Bluetooth devices participating in a given piconet are synchronized to the frequency-hopping channel for the piconet. The frequency hopping sequence is determined by the master's device address and the phase of the hopping sequence (the frequency to hop at a specific time) is determined by the master's internal clock. Therefore, all slaves in a piconet must know the master's device address and must synchronize their clocks with the master's clock.

Adaptive Frequency Hopping (AFH) was introduced in the Bluetooth specification to provide an effective way for a Bluetooth radio to counteract normal interference. AFH identifies "bad" channels, where either other wireless devices are interfering with the Bluetooth signal or the Bluetooth signal is interfering with another device. The AFH-enabled Bluetooth device will then communicate with other devices within its piconet to share details of any identified bad channels. The devices will then switch to alternative available "good" channels, away from the areas of interference, thus having no impact on the bandwidth used.

This device was tested with a bluetooth system receiver to check that the device maintained hopping synchronization, and the device complied with these requirements FCC Part 15.247 rule.



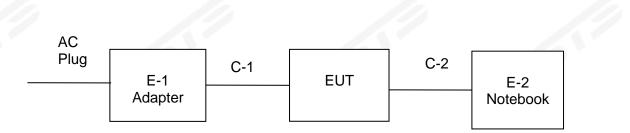
2.4 TABLE OF PARAMETERS OF TEST SOFTWARE SETTING

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of FHSS.

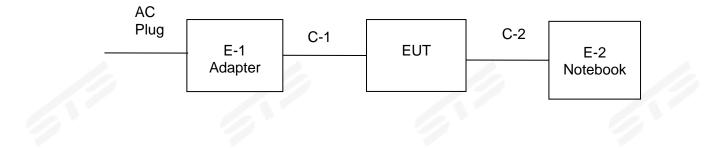
1	Test program: Bluetooth				
(Control software) Parameters(1/2/3Mbps)	Packet type: DH1:4:27 2DH1:20:54 3DH1:24:83	Packet type: DH3:11:183 2DH3:26:367 3DH3:27:552	Packet type: DH5:15:339 2DH5:30:679 3DH5:31:1021		

RF Function	Туре	Mode Or Modulation type	ANT Gain(dBi)	Power Class	Software For Testing
		GFSK	3	5	
ВТ	BR+EDR	π/4-DQPSK	3	3	BT_Tool
		8DPSK	3	3	

2.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED Radiated Spurious Emission Test



Conducted Emission Test





2.6 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

ltem	Equipment	Mfr/Brand	Vecessary accessories Model/Type No.	Length	Note
	Personal computer	DELL	Inspiron 14-3467	N/A	N/A
	Adapter	N/A	N/A	150cm	NO

Support units

Item	Equipment	Mfr/Brand	Model/Type No.	Length	Note
	Personal computer	DELL	Inspiron 14-3467	N/A	N/A
	USB Cable	N/A	N/A	150cm	NO
	Adapter	N/A	N/A	150cm	NO

Note:

- (1) For detachable type I/O cable should be specified the length in cm in ^r Length ^a column.
- (2) "YES" is means "with core"; "NO" is means "without core".



2.7 EQUIPMENTS LIST

	KF Kadia	tion Test Equipme	nt		Calibrated
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Until
Temperature & Humidity	SW-108	SuWei	N/A	2024.03.15	2025.03.14
Pre-Amplifier(0.1M-3GHz)	EM	EM330	060665	2024.02.23	2025.02.22
Pre-Amplifier(1G-18GHz)	SKET	LNPA-01018G-45	SK2018080901	2023.09.26	2024.09.2
Pre-Amplifier(18G-40GHz)	SKET	LNPA_1840-50	SK2018101801	2024.02.23	2025.02.2
Active loop Antenna	ZHINAN	ZN30900C	16035	2023.02.28	2025.02.2
Bilog Antenna	TESEQ	CBL6111D	34678	2022.09.30	2024.09.2
Horn Antenna	SCHWARZBECK	BBHA 9120D	02014	2023.09.24	2025.09.2
Horn Antenna	A-INFOMW	LB-180400-KF	J211020657	2023.10.10	2025.10.0
Positioning Controller	MF	MF-7802	MF-780208587	N/A	N/A
Signal Analyzer	R&S	FSV 40-N	101823	2023.09.26	2024.09.2
Switch Control Box	N/A	N/A	N/A	N/A	N/A
Filter Box	BALUN Technology	SU319E	BL-SZ1530051	N/A	N/A
Antenna Mast	MF	MFA-440H	N/A	N/A	N/A
Turn Table	MF	SC100_1	60531	N/A	N/A
AC Power Source	APC	KDF-11010G	F214050035	N/A	N/A
DC power supply	HONGSHENGFENG	DPS-305AF	17064939	2023.09.26	2024.09.2
Test SW	EZ-EMC		Ver.STSLAB-03	A1 RE	P
	Conduct	ion Test equipme	nt		1
Kind of Equipment	Manufacturer	Туре No.	Serial No.	Last calibration	Calibrated until
Test Receiver	R&S	ESCI	101427	2023.09.25	2024.09.2
Limtter	CYBERTEK	EM5010	N/A	2023.09.25	2024.09.2
LISN	R&S	ENV216	101242	2023.09.25	2024.09.2
LISN	EMCO	3810/2NM	23625	2023.09.25	2024.09.2
Test SW	EZ-EMC		Ver.STSLAB-03	A1 CE	11
	RF C	Connected Test		15	1
Kind of Equipment	Manufacturer	Туре No.	Serial No.	Last calibration	Calibrated until
Signal Analyzer	Agilent	N9020A	MY51510623	2024.02.23	2025.02.2
Power Sensor	Keysight	U2021XA	MY55520005	2023.09.26	2024.09.2
Temperature & Humidity	SW-108	SuWei	N/A	2024.03.15	2025.03.1
Test SW	MW		MTS 8310_2.0	0.0.0	1
	1 and a second s		1	6	1



3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION LIMITS

The radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table.

	Conducted Emissionlimit (dBuV)		
FREQUENCY (MHz)	Quasi-peak	Average	
0.15 -0.5	66 - 56 *	56 - 46 *	
0.50 -5.0	56.00	46.00	
5.0 -30.0	60.00	50.00	

Note:

(1) The tighter limit applies at the band edges.

(2) The limit of "*" marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

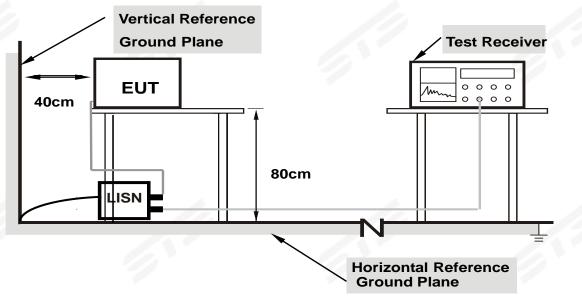
Receiver Parameters	Setting	
Attenuation	10 dB	
Start Frequency	0.15 MHz	
Stop Frequency	30 MHz	
IF Bandwidth	9 kHz	



3.1.2 TEST PROCEDURE

- a. The EUT is 0.8 m from the horizontal ground plane and 0.4 m from the vertical ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments are powered from additional LISN(s). The LISN provides 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN is at least 80 cm from the nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

3.1.3 TEST SETUP



Note: 1. Support units were connected to second LISN.

2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes support units.

3.1.4 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



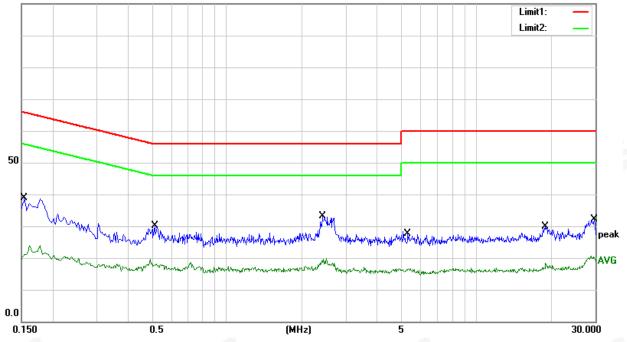
3.1.5 TEST RESULT

Temperature:	25.1(C)	Relative Humidity:	59%RH
Test Voltage:	AC 120V/60Hz	Phase:	L //
Test Mode:	Mode 13	65	68

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB)	(dBuV)	(dBuV)	(dB)	
1	0.1540	19.02	19.75	38.77	65.78	-27.01	QP
2	0.1540	4.11	19.75	23.86	55.78	-31.92	AVG
3	0.5140	10.15	19.95	30.10	56.00	-25.90	QP
4	0.5140	-0.36	19.95	19.59	46.00	-26.41	AVG
5	2.4180	13.27	19.90	33.17	56.00	-22.83	QP
6	2.4180	-0.06	19.90	19.84	46.00	-26.16	AVG
7	5.3220	7.86	19.87	27.73	60.00	-32.27	QP
8	5.3220	-3.21	19.87	16.66	50.00	-33.34	AVG
9	19.0060	9.48	20.48	29.96	60.00	-30.04	QP
10	19.0060	-2.12	20.48	18.36	50.00	-31.64	AVG
11	29.7620	11.60	20.44	32.04	60.00	-27.96	QP
12	29.7620	0.11	20.44	20.55	50.00	-29.45	AVG

Remark:

- All readings are Quasi-Peak and Average values
 Margin = Result (Result =Reading + Factor)–Limit
 Factor=LISN factor+Cable loss+Limiter (10dB)
 100.0 dBuV





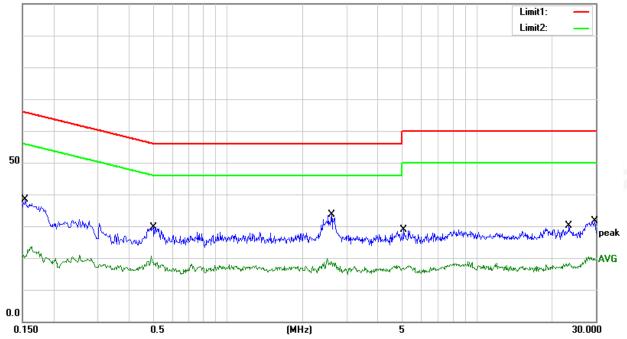
Temperature:	25.1(C)	Relative Humidity:	59%RH
Test Voltage:	AC 120V/60Hz	Phase:	N
Test Mode:	Mode 13	17	12

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB)	(dBuV)	(dBuV)	(dB)	
1	0.1540	18.52	19.75	38.27	65.78	-27.51	QP
2	0.1540	3.92	19.75	23.67	55.78	-32.11	AVG
3	0.5020	9.77	19.96	29.73	56.00	-26.27	QP
4	0.5020	0.63	19.96	20.59	46.00	-25.41	AVG
5	2.6140	13.62	19.91	33.53	56.00	-22.47	QP
6	2.6140	-0.07	19.91	19.84	46.00	-26.16	AVG
7	5.0860	8.91	19.89	28.80	60.00	-31.20	QP
8	5.0860	-2.23	19.89	17.66	50.00	-32.34	AVG
9	23.4180	9.72	20.33	30.05	60.00	-29.95	QP
10	23.4180	-1.90	20.33	18.43	50.00	-31.57	AVG
11	29.7620	11.10	20.44	31.54	60.00	-28.46	QP
12	29.7620	-0.16	20.44	20.28	50.00	-29.72	AVG

Remark:

3. Factor=LISN factor+Cable loss+Limiter (10dB)

100.0 dBuV



All readings are Quasi-Peak and Average values
 Margin = Result (Result = Reading + Factor)–Limit



3.2 RADIATED EMISSION MEASUREMENT

3.2.1 RADIATED EMISSION LIMITS

In any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the Restricted band specified on Part15.205 (a)&209(a) limit in the table and according to ANSI C63.10-2020 below has to be followed.

LIMITS OF RADIATED EMISSION MEASUREMENT (0.009MHz - 1000MHz)

Frequencies	Field Strength	Measurement Distance
(MHz)	(micorvolts/meter)	(meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (1GHz-25 GHz)

FREQUENCY (MHz)	(dBuV/m) (at 3M)				
	PEAK	AVERAGE			
Above 1000	74 54				
Ni-te					

Notes:

(1) The limit for radiated test was performed according to FCC PART 15C.

- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

LIMITS OF RESTRICTED FREQUENCY BANDS

FREQUENCY (MHz)	FREQUENCY (MHz)	FREQUENCY (MHz)	FREQUENCY (GHz)
. ,	0.090-0.110 16.42-16.423		4.5-5.15
0.495-0.505	16.69475-16.69525	<u>399.9-410</u> 608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225 123-138		2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	Above 38.6
13.36-13.41			



For Radiated Emission

Spectrum Parameter	Setting		
Attenuation	Auto		
Detector	Peak/QP/AV		
Start Frequency	9 KHz/150KHz(Peak/QP/AV)		
Stop Frequency	150KHz/30MHz(Peak/QP/AV)		
	200Hz (From 9kHz to 0.15MHz)/		
RB / VB (emission in restricted	9KHz (From 0.15MHz to 30MHz);		
band)	200Hz (From 9kHz to 0.15MHz)/		
	9KHz (From 0.15MHz to 30MHz)		

Spectrum Parameter	Setting
Attenuation	Auto
Detector	Peak/QP
Start Frequency	30 MHz(Peak/QP)
Stop Frequency	1000 MHz (Peak/QP)
RB / VB (emission in restricted	120 KHz / 300 KHz
band)	

Spectrum Parameter	Setting	
Attenuation	Auto	
Detector	Peak/AV	
Start Frequency	1000 MHz(Peak/AV)	
Stop Frequency	10th carrier hamonic(Peak/AV)	
RB / VB (emission in restricted	1 MHz / 3 MHz(Peak)	
band)	1 MHz/1/T MHz(AVG)	

For Restricted band

	Spectrum Parameter	Setting		
ø	Detector	Peak/AV		
	Start/Stop Frequency	Lower Band Edge: 2310 to 2410 MHz		
		Upper Band Edge: 2476 to 2500 MHz		
		1 MHz / 3 MHz(Peak)		
	RB / VB	1 MHz/1/T MHz(AVG)		

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Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~90kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	90kHz~110kHz / RB 200Hz for QP
Start ~ Stop Frequency	110kHz~490kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	490kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

3.2.2 TEST PROCEDURE

- a. The measuring distance at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
- b. The EUT was placed on the top of a rotating table 0.8 m (above 1GHz is 1.5 m) above the ground at a 3 m anechoic chamber test site. The table was rotated 360 degree to determine the position of the highest radiation.
- c. The height of the equipment shall be 0.8 m (above 1GHz is 1.5 m); the height of the test antenna shall vary between 1 m to 4 m. Horizontal and vertical polarization of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and QuasiPeak detector mode will be re-measured.
- e. If the Peak Mode measured value is compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and no additional QP Mode measurement was performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos. Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

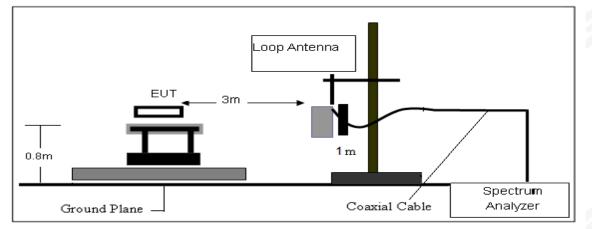
3.2.3 DEVIATION FROM TEST STANDARD

No deviation.

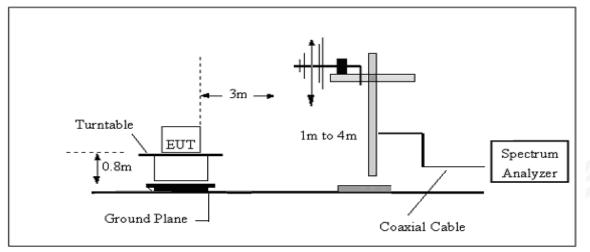


3.2.4 TESTSETUP

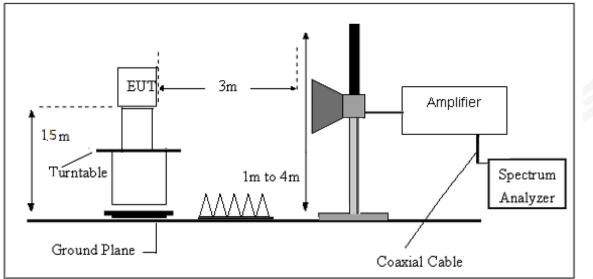
(A) Radiated Emission Test-Up Frequency Below 30MHz

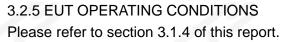


(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



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







3.2.6 FIELD STRENGTH CALCULATION

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

FS = RA + AF + CL - AGWhere FS = Field Strength CL = Cable Attenuation Factor (Cable Loss) RA = Reading Amplitude AG = Amplifier Gain

AF = Antenna Factor

For example

Frequency	FS	RA	AF	CL	AG	Factor
(MHz)	(dBµV/m)	(dBµV/m)	(dB)	(dB)	(dB)	(dB)
300	40	58.1	12.2	1.6	31.9	-18.1

Factor=AF+CL-AG















3.2.7 TEST RESULTS

(9KHz-30MHz)

Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	AC 120V/60Hz	Test Mode:	TX Mode

Freq.	Reading	Limit	Margin	State	
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F	Test Result
					PASS
					PASS

Note:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor =40 log (specific distance/test distance)(dB); Limit line = specific limits (dBuv) + distance extrapolation factor.



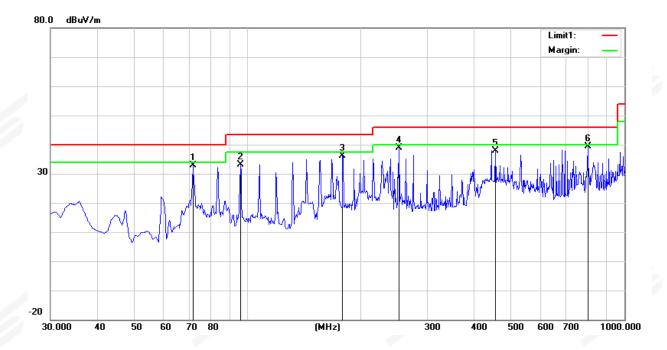
(30MHz-1000MHz)

Temperature:	23.1(C)	Relative Humidity:	60%RH		
Test Voltage:	AC 120V/60Hz	Phase:	Horizontal		
Test Mode:	Mode 1/2/3/4/5/6/7/8/9(Mode 1 worst mode)				

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	71.7100	57.51	-24.56	32.95	40.00	-7.05	peak
2	95.9600	53.91	-20.67	33.24	43.50	-10.26	peak
3	179.3800	56.13	-20.02	36.11	43.50	-7.39	peak
4	252.1300	54.57	-15.80	38.77	46.00	-7.23	peak
5	455.8300	47.48	-9.55	37.93	46.00	-8.07	peak
6	799.2100	41.37	-2.04	39.33	46.00	-6.67	peak

Remark:

- 1. Margin = Result (Result = Reading + Factor)-Limit
- 2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain
- 3. All modes have been tested, only show the worst case.



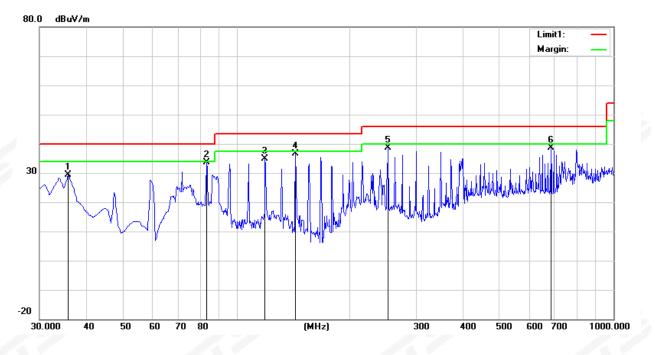


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Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	AC 120V/60Hz	Phase:	Vertical
Test Mode:	Mode 1/2/3/4/5/6/7/8/9(Mode	1 worst mode)	1.1

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	35.8200	45.24	-15.91	29.33	40.00	-10.67	peak
2	83.3500	56.08	-22.52	33.56	40.00	-6.44	peak
3	119.2400	53.17	-18.38	34.79	43.50	-8.71	peak
4	143.4900	54.77	-18.23	36.54	43.50	-6.96	peak
5	252.1300	54.53	-15.80	38.73	46.00	-7.27	peak
6	683.7800	42.87	-4.31	38.56	46.00	-7.44	peak
0 000.7000 42.07 4.01 00.00 40.00 47.44 peak							
emark: Margin Basult (Basult Baseding - Faster) Limit							

- Margin = Result (Result = Reading + Factor)–Limit
 Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain





(1GHz~25GHz) Spurious emission Requirements

Frequency	Meter Reading	Amplifier	Loss	Antenna Factor	Corrected Factor	Emission Level	Limits	Margin	Detector	Comment
(MHz)	(dBµV)	(dB)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	
		1	111	Low Cl	hannel (GFSK/	2402 MHz)			1990	
3264.85	61.53	44.70	6.70	28.20	-9.80	51.73	74.00	-22.27	PK	Vertical
3264.85	50.70	44.70	6.70	28.20	-9.80	40.90	54.00	-13.10	AV	Vertical
3264.79	61.65	44.70	6.70	28.20	-9.80	51.85	74.00	-22.15	PK	Horizontal
3264.79	50.91	44.70	6.70	28.20	-9.80	41.11	54.00	-12.89	AV	Horizontal
4804.50	59.50	44.20	9.04	31.60	-3.56	55.94	74.00	-18.06	PK	Vertical
4804.50	50.36	44.20	9.04	31.60	-3.56	46.80	54.00	-7.20	AV	Vertical
4804.41	59.01	44.20	9.04	31.60	-3.56	55.45	74.00	-18.55	PK	Horizontal
4804.41	50.35	44.20	9.04	31.60	-3.56	46.79	54.00	-7.21	AV	Horizontal
5359.87	48.20	44.20	9.86	32.00	-2.34	45.86	74.00	-28.14	PK	Vertical
5359.87	39.50	44.20	9.86	32.00	-2.34	37.16	54.00	-16.84	AV	Vertical
5359.74	48.00	44.20	9.86	32.00	-2.34	45.66	74.00	-28.34	PK	Horizontal
5359.74	39.23	44.20	9.86	32.00	-2.34	36.89	54.00	-17.11	AV	Horizontal
7205.69	54.71	43.50	11.40	35.50	3.40	58.11	74.00	-15.89	PK	Vertical
7205.69	43.88	43.50	11.40	35.50	3.40	47.28	54.00	-6.72	AV	Vertical
7205.70	54.22	43.50	11.40	35.50	3.40	57.62	74.00	-16.38	PK	Horizontal
7205.70	43.60	43.50	11.40	35.50	3.40	47.00	54.00	-7.00	AV	Horizontal
	-			Middle (Channel (GFSK	(/2441 MHz)	•		•	•
3264.61	61.51	44.70	6.70	28.20	-9.80	51.71	74.00	-22.29	PK	Vertical
3264.61	50.73	44.70	6.70	28.20	-9.80	40.93	54.00	-13.07	AV	Vertical
3264.62	61.66	44.70	6.70	28.20	-9.80	51.86	74.00	-22.14	PK	Horizontal
3264.62	49.83	44.70	6.70	28.20	-9.80	40.03	54.00	-13.97	AV	Horizontal
4882.41	58.52	44.20	9.04	31.60	-3.56	54.96	74.00	-19.04	PK	Vertical
4882.41	49.81	44.20	9.04	31.60	-3.56	46.25	54.00	-7.75	AV	Vertical
4882.47	59.29	44.20	9.04	31.60	-3.56	55.73	74.00	-18.27	PK	Horizontal
4882.47	49.25	44.20	9.04	31.60	-3.56	45.69	54.00	-8.31	AV	Horizontal
5359.66	48.71	44.20	9.86	32.00	-2.34	46.37	74.00	-27.63	PK	Vertical
5359.66	39.49	44.20	9.86	32.00	-2.34	37.15	54.00	-16.85	AV	Vertical
5359.81	47.63	44.20	9.86	32.00	-2.34	45.29	74.00	-28.71	PK	Horizontal
5359.81	39.32	44.20	9.86	32.00	-2.34	36.98	54.00	-17.02	AV	Horizontal
7323.98	53.74	43.50	11.40	35.50	3.40	57.14	74.00	-16.86	PK	Vertical
7323.98	43.88	43.50	11.40	35.50	3.40	47.28	54.00	-6.72	AV	Vertical
7323.85	54.05	43.50	11.40	35.50	3.40	57.45	74.00	-16.55	PK	Horizontal
7323.85	43.79	43.50	11.40	35.50	3.40	47.19	54.00	-6.81	AV	Horizontal



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	High Channel (GFSK/2480 MHz)									
3264.74	61.64	44.70	6.70	28.20	-9.80	51.84	74.00	-22.16	PK	Vertical
3264.74	49.92	44.70	6.70	28.20	-9.80	40.12	54.00	-13.88	AV	Vertical
3264.69	61.80	44.70	6.70	28.20	-9.80	52.00	74.00	-22.00	PK	Horizontal
3264.69	51.12	44.70	6.70	28.20	-9.80	41.32	54.00	-12.68	AV	Horizontal
4960.53	58.36	44.20	9.04	31.60	-3.56	54.80	74.00	-19.20	PK	Vertical
4960.53	49.71	44.20	9.04	31.60	-3.56	46.15	54.00	-7.85	AV	Vertical
4960.44	59.09	44.20	9.04	31.60	-3.56	55.53	74.00	-18.47	PK	Horizontal
4960.44	50.00	44.20	9.04	31.60	-3.56	46.44	54.00	-7.56	AV	Horizontal
5359.85	48.80	44.20	9.86	32.00	-2.34	46.46	74.00	-27.54	PK	Vertical
5359.85	39.95	44.20	9.86	32.00	-2.34	37.61	54.00	-16.39	AV	Vertical
5359.71	47.43	44.20	9.86	32.00	-2.34	45.09	74.00	-28.91	PK	Horizontal
5359.71	39.35	44.20	9.86	32.00	-2.34	37.01	54.00	-16.99	AV	Horizontal
7439.82	54.95	43.50	11.40	35.50	3.40	58.35	74.00	-15.65	PK	Vertical
7439.82	44.10	43.50	11.40	35.50	3.40	47.50	54.00	-6.50	AV	Vertical
7439.92	53.91	43.50	11.40	35.50	3.40	57.31	74.00	-16.69	PK	Horizontal
7439.92	44.90	43.50	11.40	35.50	3.40	48.30	54.00	-5.70	AV	Horizontal

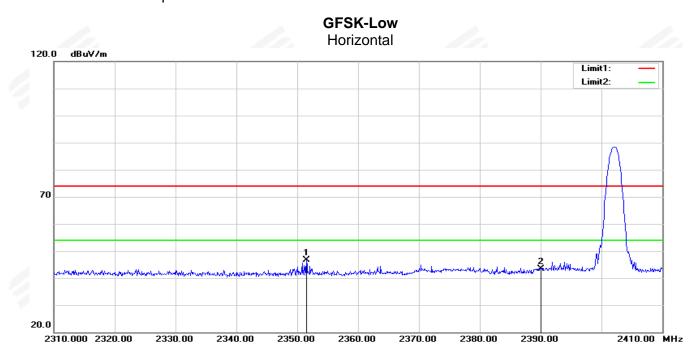
Note:

- 1) Scan with GFSK, $\pi/4$ -DQPSK, 8DPSK, the worst case is GFSK Mode.
- 2) Factor = Antenna Factor + Cable Loss Pre-amplifier.

Emission Level = Reading + Factor

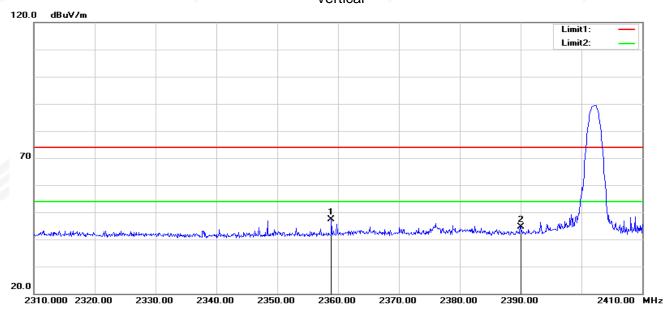
3) The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.





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No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2351.500	42.96	3.77	46.73	74.00	-27.27	peak
2	2390.000	39.10	4.34	43.44	74.00	-30.56	peak

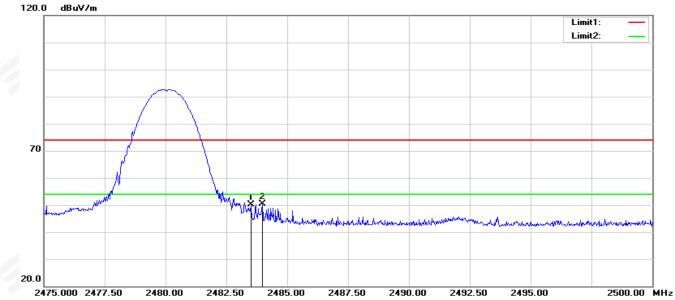


Reading Correct Frequency Result Limit Margin No. Remark Factor(dB/m) (dBuV/m) (MHz) (dBuV) (dBuV/m) (dB) 1 2358.900 43.40 3.87 47.27 74.00 -26.73 peak 2 2390.000 40.21 4.34 44.55 74.00 -29.45 peak

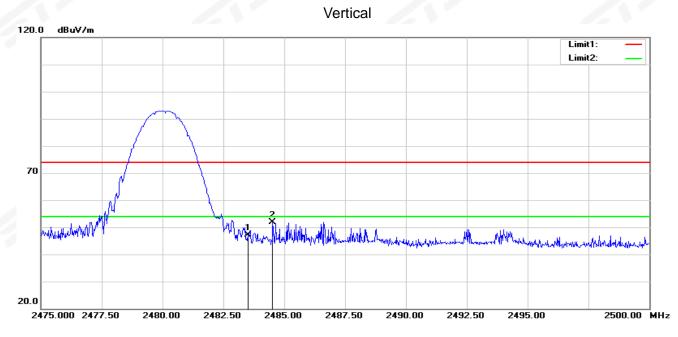
Vertical



GFSK-High Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	45.59	4.60	50.19	74.00	-23.81	peak
2	2483.975	45.71	4.61	50.32	74.00	-23.68	peak



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	42.41	4.60	47.01	74.00	-26.99	peak
2	2484.525	47.28	4.61	51.89	74.00	-22.11	peak

Note: GFSK, π /4-DQPSK, 8DPSK of the nohopping and hopping mode all have been test, the worst case is GFSK of the nohopping mode, this report only show the worst case.



4. CONDUCTED SPURIOUS & BAND EDGE EMISSION

4.1 LIMIT

According to FCC section 15.247(d), in any 100kHz 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 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

4.2 TEST PROCEDURE

Spectrum Parameter	Setting
Detector	Peak
Start/Stop Frequency	30 MHz to 10th carrier harmonic
RB / VB (emission in restricted band)	100 KHz/300 KHz
Trace-Mode:	Max hold

For Band edge

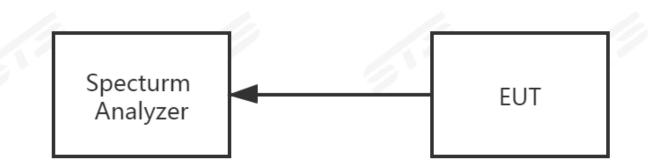
Spectrum Parameter	Setting		
Detector	Peak		
	Lower Band Edge: 2300 – 2407 MHz		
Start/Stop Frequency	Upper Band Edge: 2475 – 2500 MHz		
RB / VB (emission in restricted band)	100 KHz/300 KHz		
Trace-Mode:	Max hold		

For Hopping Band edge

Spectrum Parameter	Setting
Detector	Peak
	Lower Band Edge: 2300– 2403 MHz
Start/Stop Frequency	Upper Band Edge: 2479 – 2500 MHz
RB / VB (emission in restricted band)	100 KHz/300 KHz
Trace-Mode:	Max hold







The EUT is connected to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. Tune the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. In order to make an accurate measurement, the span is set to be greater than RBW.

4.4 EUT OPERATION CONDITIONS

Please refer to section 3.1.4 of this report.

4.5 TEST RESULTS



5. NUMBER OF HOPPING CHANNEL

5.1 LIMIT

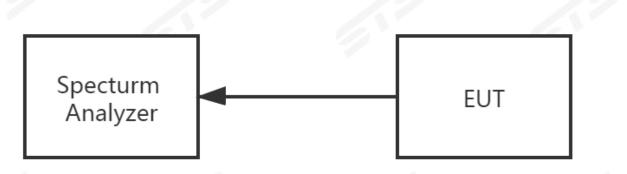
FCC Part 15.247,Subpart C							
Section	Test Item	Limit	FrequencyRange (MHz)	Result			
15.247 (a)(1)(iii)	Number of Hopping Channel	≥15	2400-2483.5	PASS			

Spectrum Parameters	Setting
Attenuation	Auto
Span Frequency	> Operating FrequencyRange
RB	100KHz
VB	300KHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

5.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. Spectrum Setting: RBW= 100KHz, VBW=300KHz, Sweep time = Auto.

5.3 TEST SETUP



5.4 EUT OPERATION CONDITIONS

Please refer to section 3.1.4 of this report.

5.5 TEST RESULTS



6. AVERAGE TIME OF OCCUPANCY

6.1 LIMIT

FCC Part 15.247,Subpart C				
Section	Test Item	Limit	FrequencyRange (MHz)	Result
15.247 (a)(1)(iii)	Average Time of Occupancy	0.4sec	2400-2483.5	PASS

6.2 TEST PROCEDURE

- a. The transmitter output (antenna port) was connected to the spectrum analyzer.
- b. Set RBW =1MHz/VBW =3MHz.
- c. Use a video trigger with the trigger level set to enable triggering only on full pulses.
- d. Sweep Time is more than once pulse time.
- Set the center frequency on any frequency would be measure and set the frequency span to e. zero span.
- f. Measure the maximum time duration of one single pulse.
- g. Set the EUT for DH5, DH3 and DH1 packet transmitting.
- h. Measure the maximum time duration of one single pulse.
- i. DH5 Packet permit maximum 1600/ 79 / 6 = 3.37 hops per second in each channel (5 time slots RX, 1 time slot TX). So the number of pulses in the observation period of 31.6 seconds is $3.37 \times 31.6 = 106.6$.
- j. DH3 Packet permit maximum 1600 / 79 / 4 = 5.06 hops per second in each channel (3 time slots RX, 1 time slot TX). So the number of pulses in the observation period of 31.6 seconds is $5.06 \times 31.6 = 160$.
- k. DH1 Packet permit maximum 1600 / 79 / 2 = 10.12 hops per second in each channel (1 time slot RX, 1 time slot TX). So the number of pulses in the observation period of 31.6 seconds is $10.12 \times 31.6 = 320$.

6.3 TEST SETUP



6.4 EUT OPERATION CONDITIONS

Please refer to section 3.1.4 of this report.

6.5 TEST RESULTS



7. HOPPING CHANNEL SEPARATION MEASUREMEN

7.1 LIMIT

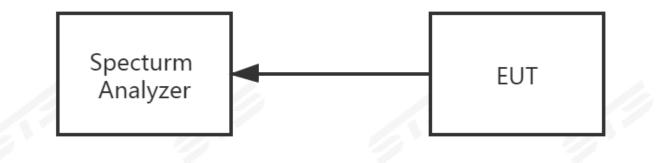
Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

Spectrum Parameter	Setting		
Attenuation	Auto		
Span Frequency	> 20 dB Bandwidth or Channel Separation		
RB	30 kHz (20dB Bandwidth) / 30 kHz (Channel Separation)		
VB	100 kHz (20dB Bandwidth) / 100 kHz (Channel Separation)		
Detector	Peak		
Trace	Max Hold		
Sweep Time	Time Auto		

7.2 TEST PROCEDURE

- a. The transmitter output (antenna port) was connected to the spectrum analyser in peak hold mode.
- b. The resolution bandwidth of 30 kHz and the video bandwidth of 100 kHz were utilised for 20 dB bandwidth measurement.
- c. The resolution bandwidth of 30 kHz and the video bandwidth of 100 kHz were utilised for channel separation measurement.

7.3 TEST SETUP



7.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

7.5 TEST RESULTS



8.1 LIMIT

FCC Part15 15.247,Subpart C						
	Section	Test Item	Limit	FrequencyRange (MHz)	Result	
	15.247 (a)(1)	Bandwidth	N/A	2400-2483.5	PASS	

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	> Measurement Bandwidth or Channel Separation
RB	30 kHz (20dB Bandwidth) / 30 kHz (Channel Separation)
VB	100 kHz (20dB Bandwidth) / 100 kHz (Channel Separation)
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

8.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. Spectrum Setting: RBW= 30KHz, VBW=100KHz, Sweep time = Auto.

8.3 TEST SETUP



8.4 EUT OPERATION CONDITIONS

Please refer to section 3.1.4 of this report.

8.5 TEST RESULTS

Note: The test data please refer to APPENDIX 1.



9. OUTPUT POWER TEST

9.1 LIMIT

2	FCC Part 15.247,Subpart C						
Se	ection	Test Item	Limit	Frequency Range (MHz)	Result		
		the second se	1 W or 0.125W				
	5.247)&(b)(1)	Output Power	if channel separation > 2/3 bandwidthprovided thesystems operatewith an output power no greater than125 mW(20.97dBm)	2400-2483.5	PASS		

9.2 TEST PROCEDURE

This is an RF-conducted test to evaluate maximum peak output power. Use a direct connection between the antenna port of the unlicensed wireless device and the spectrum analyzer, through suitable attenuation. The hopping shall be disabled for this test:

a) Use the following spectrum analyzer settings:

1) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel.

2) RBW > 20 dB bandwidth of the emission being measured.

3) VBW ≥ RBW.

4) Sweep: Auto.

5) Detector function: Peak.

6) Trace: Max hold.

b) Allow trace to stabilize.

c) Use the marker-to-peak function to set the marker to the peak of the emission.

d) The indicated level is the peak output power, after any corrections for external attenuators and cables.

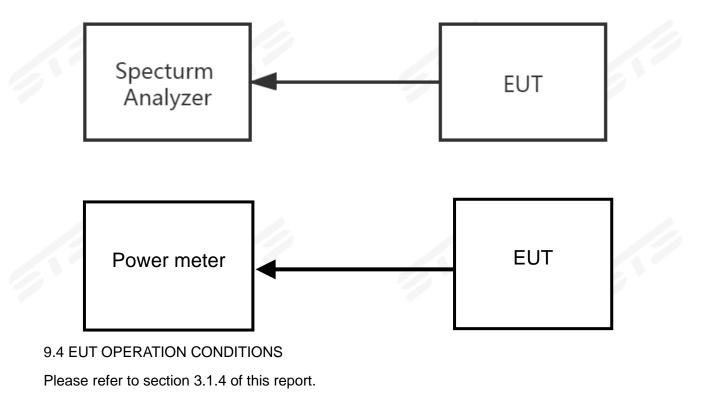
e) A plot of the test results and setup description shall be included in the test report.

NOTE—A peak responding power meter may be used, where the power meter and sensor system video bandwidth is greater than the occupied bandwidth of the unlicensed wireless device, rather than a spectrum analyzer.

PKPM1 Peak power meter method:

The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DSS bandwidth and shall use a fast-responding diode detector.





9.5 TEST RESULTS

Note: The test data please refer to APPENDIX 1.



10. ANTENNA REQUIREMENT

10.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

10.2 EUT ANTENNA

The EUT antenna is PCB Antenna. It comply with the standard requirement.

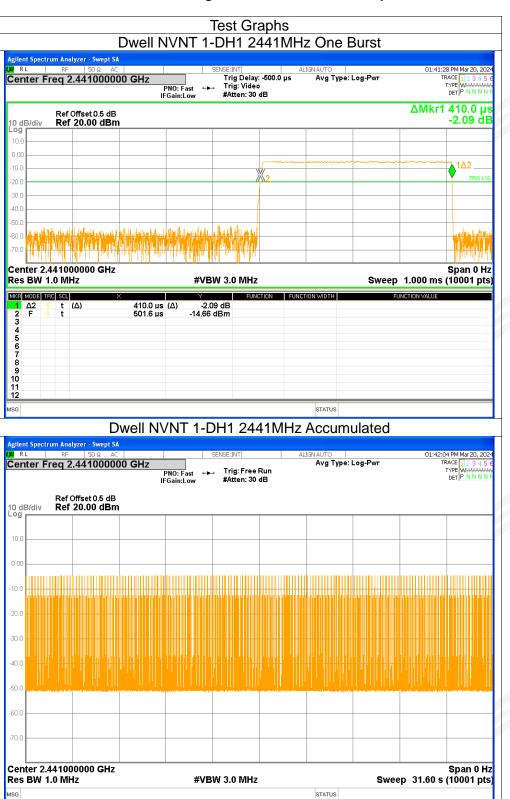


APPENDIX 1-TEST DATA

1. Dwell Time

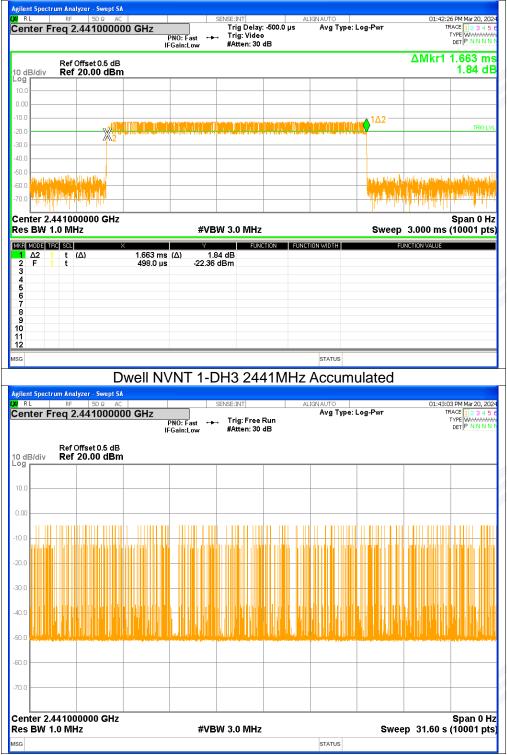
Condition	Mode	Frequency (MHz)	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH1	2441	0.41	129.56	316	31600	<=400	Pass
NVNT	1-DH3	2441	1.663	284.373	171	31600	<=400	Pass
NVNT	1-DH5	2441	2.908	351.868	121	31600	<=400	Pass
NVNT	2-DH1	2441	0.415	132.385	319	31600	<=400	Pass
NVNT	2-DH3	2441	1.671	282.399	169	31600	<=400	Pass
NVNT	2-DH5	2441	2.915	320.65	110	31600	<=400	Pass
NVNT	3-DH1	2441	0.42	133.98	319	31600	<=400	Pass
NVNT	3-DH3	2441	1.667	250.05	150	31600	<=400	Pass
NVNT	3-DH5	2441	2.917	312.119	107	31600	<=400	Pass







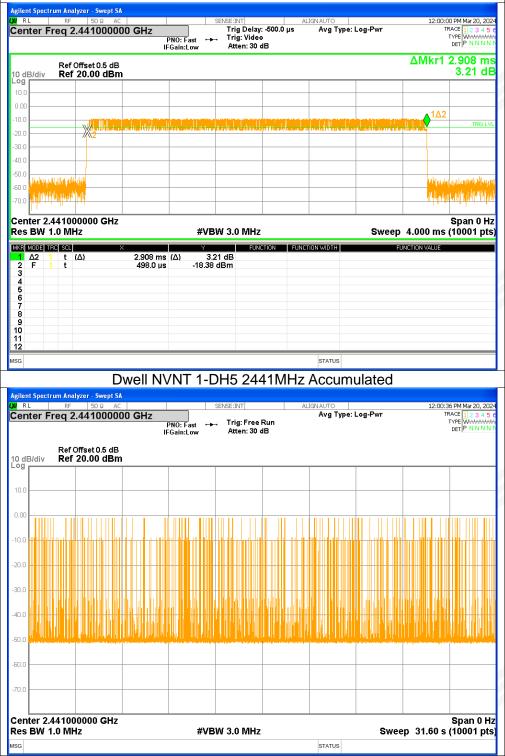
Dwell NVNT 1-DH3 2441MHz One Burst



1

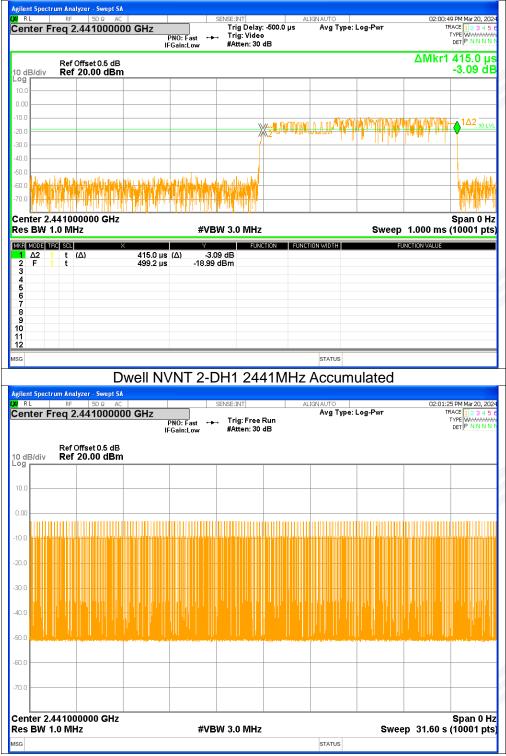


Dwell NVNT 1-DH5 2441MHz One Burst





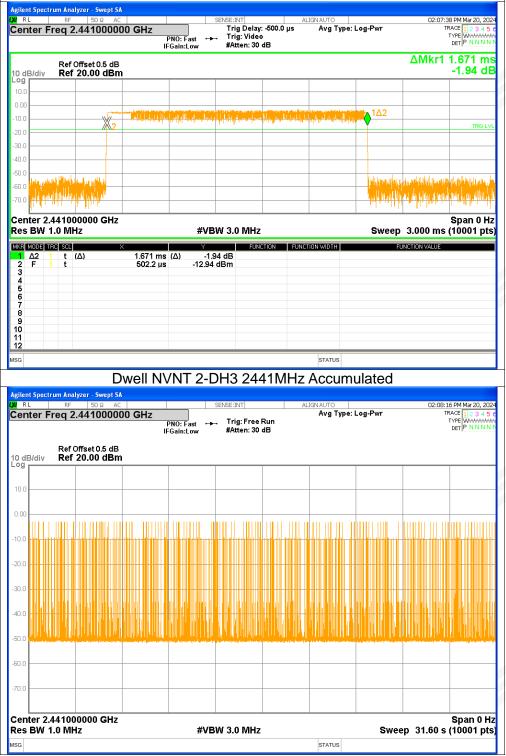
Dwell NVNT 2-DH1 2441MHz One Burst



19

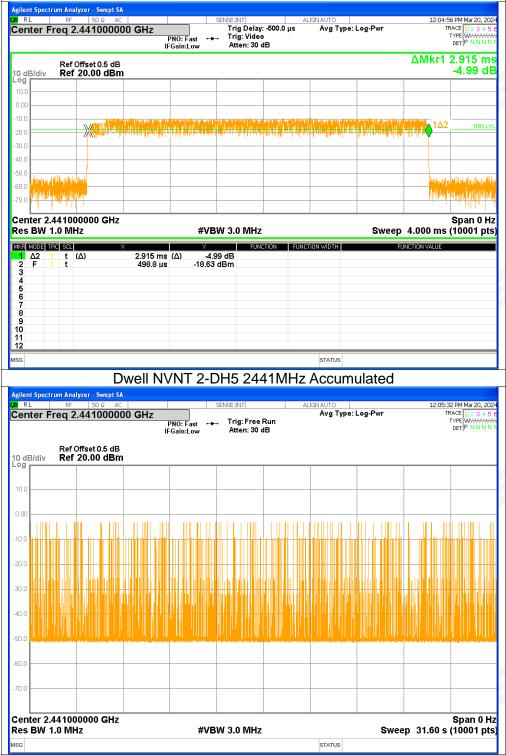


Dwell NVNT 2-DH3 2441MHz One Burst



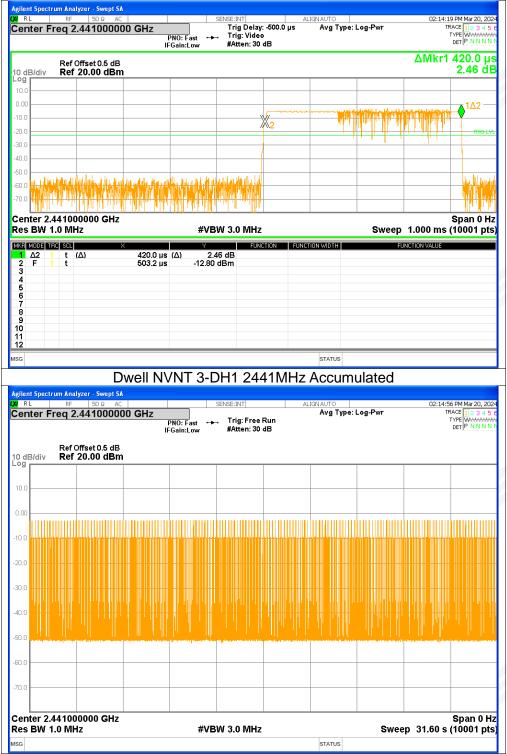


Dwell NVNT 2-DH5 2441MHz One Burst



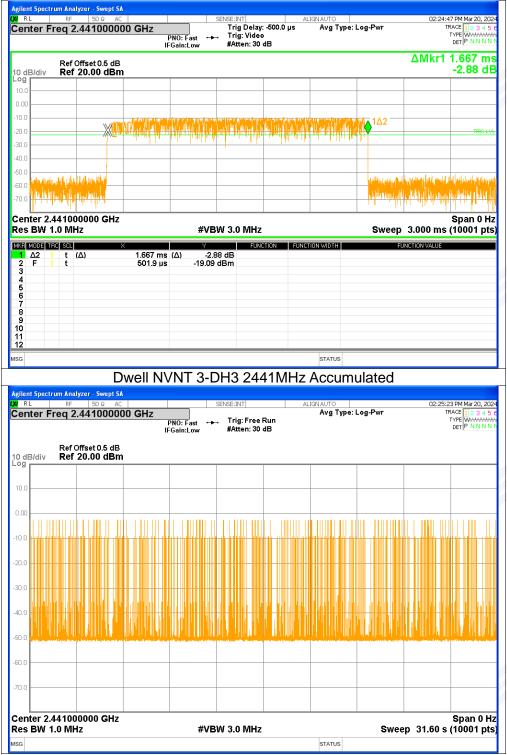


Dwell NVNT 3-DH1 2441MHz One Burst





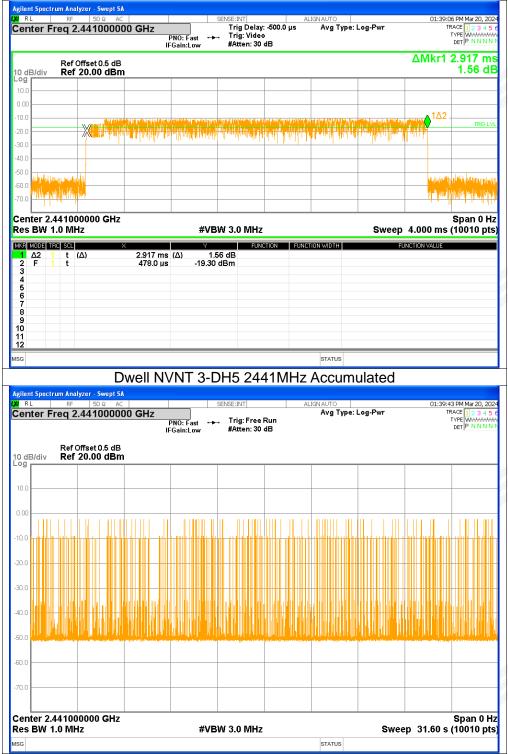
Dwell NVNT 3-DH3 2441MHz One Burst



19



Dwell NVNT 3-DH5 2441MHz One Burst



1



2. Maximum Peak Conducted Output Power

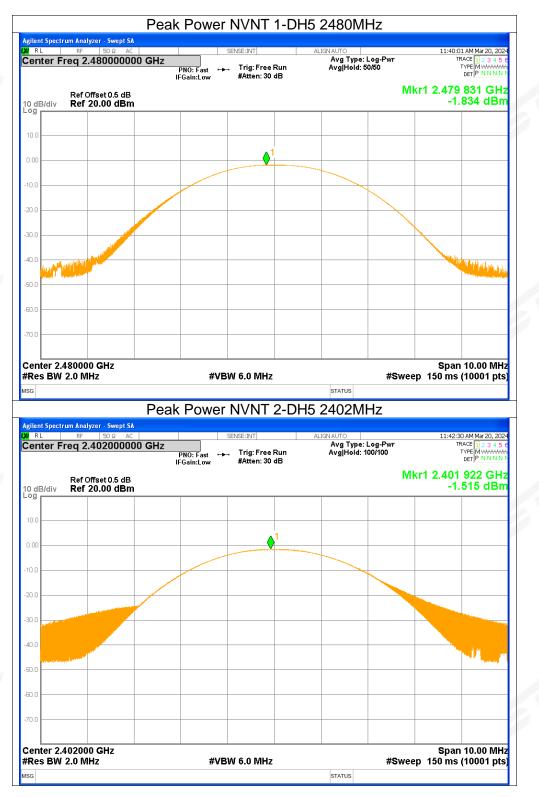
Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	0.09	<=20.97	Pass
NVNT	1-DH5	2441	-1.04	<=20.97	Pass
NVNT	1-DH5	2480	-1.83	<=20.97	Pass
NVNT	2-DH5	2402	-1.52	<=20.97	Pass
NVNT	2-DH5	2441	-2.71	<=20.97	Pass
NVNT	2-DH5	2480	-3.45	<=20.97	Pass
NVNT	3-DH5	2402	-0.86	<=20.97	Pass
NVNT	3-DH5	2441	-2.04	<=20.97	Pass
NVNT	3-DH5	2480	-2.88	<=20.97	Pass



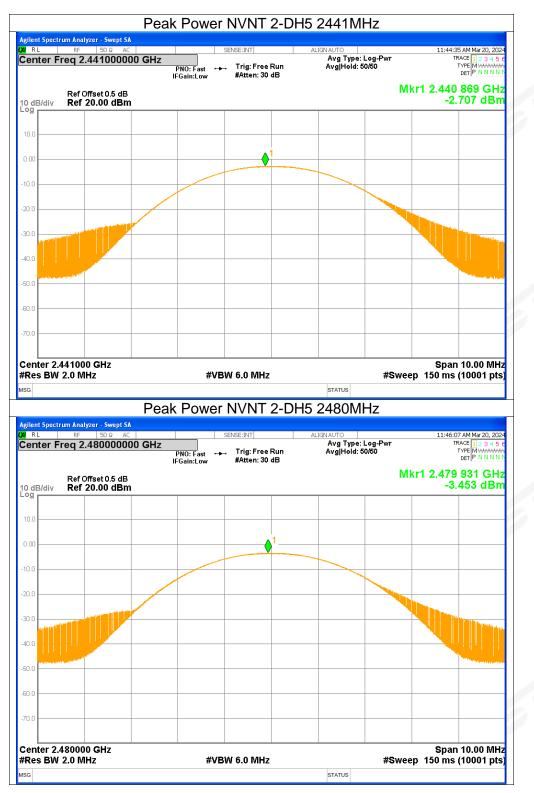
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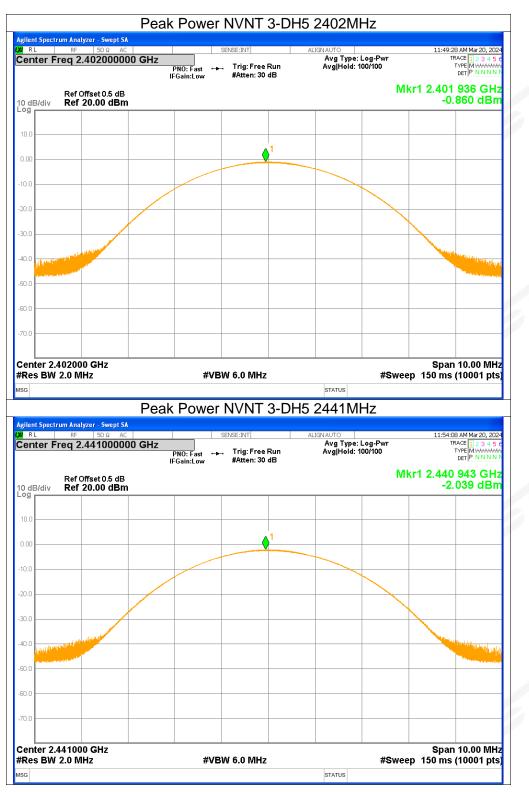




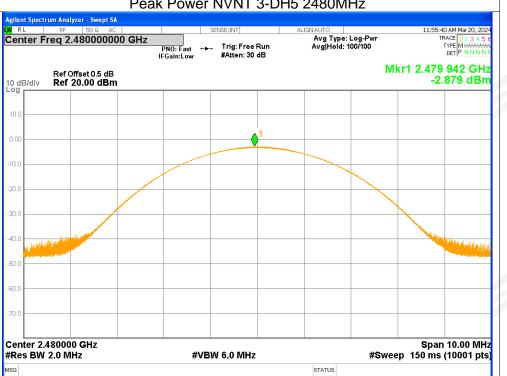












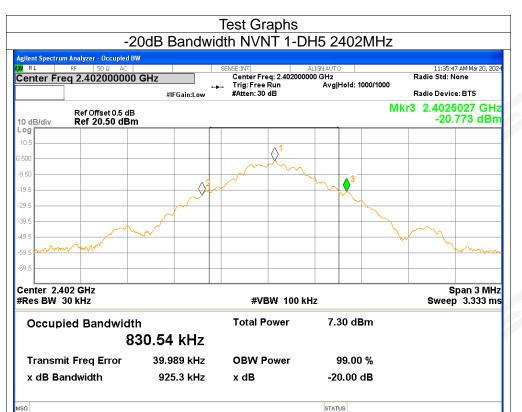
Peak Power NVNT 3-DH5 2480MHz

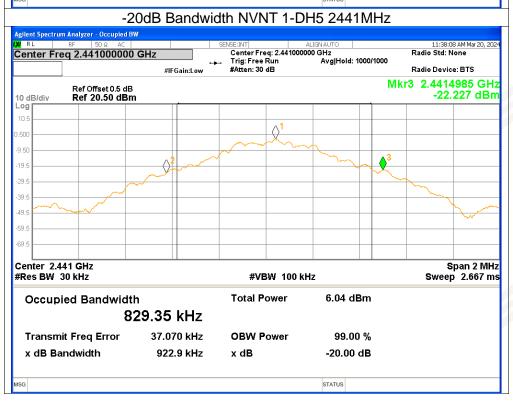


3. -20dB Bandwidth

Condition	Mode	Frequency (MHz)	-20 dB Bandwidth (MHz)	Verdict					
NVNT	1-DH5	2402	0.9253	Pass					
NVNT	1-DH5	2441	0.9229	Pass					
NVNT	1-DH5	2480	0.93	Pass					
NVNT	2-DH5	2402	1.2757	Pass					
NVNT	2-DH5	2441	1.2737	Pass					
NVNT	2-DH5	2480	1.2759	Pass					
NVNT	3-DH5	2402	1.2965	Pass					
NVNT	3-DH5	2441	1.2911	Pass					
NVNT	3-DH5	2480	1.2925	Pass					

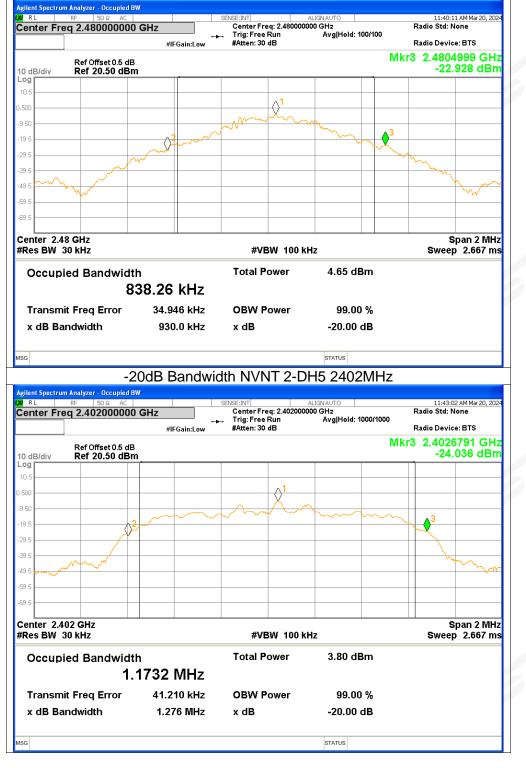






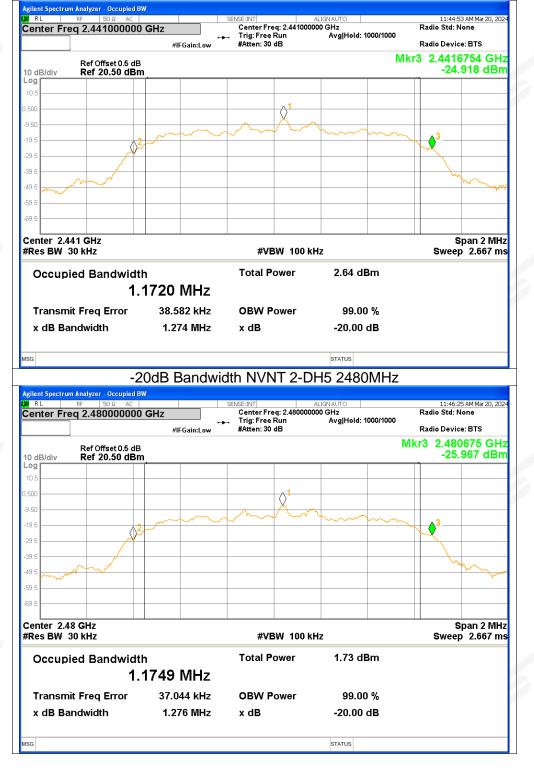






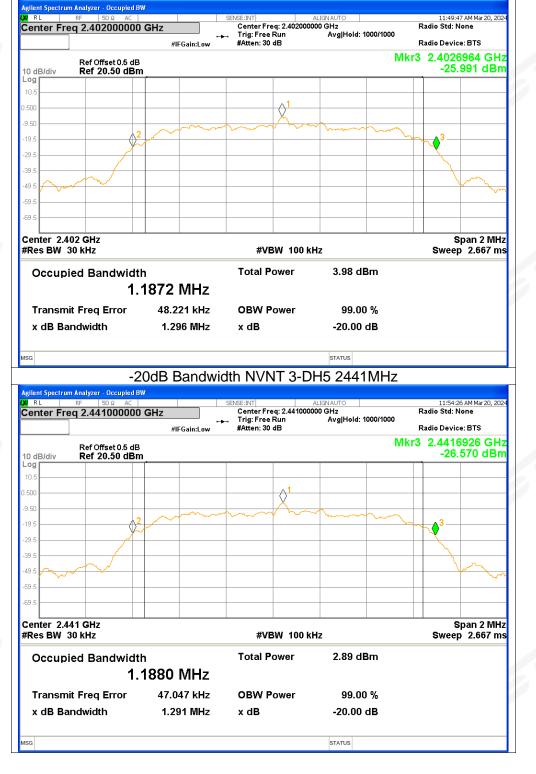


-20dB Bandwidth NVNT 2-DH5 2441MHz





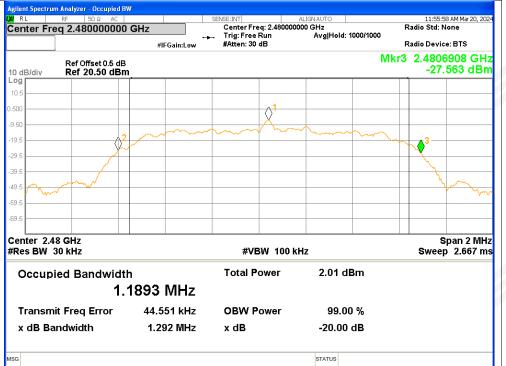








-20dB Bandwidth NVNT 3-DH5 2480MHz





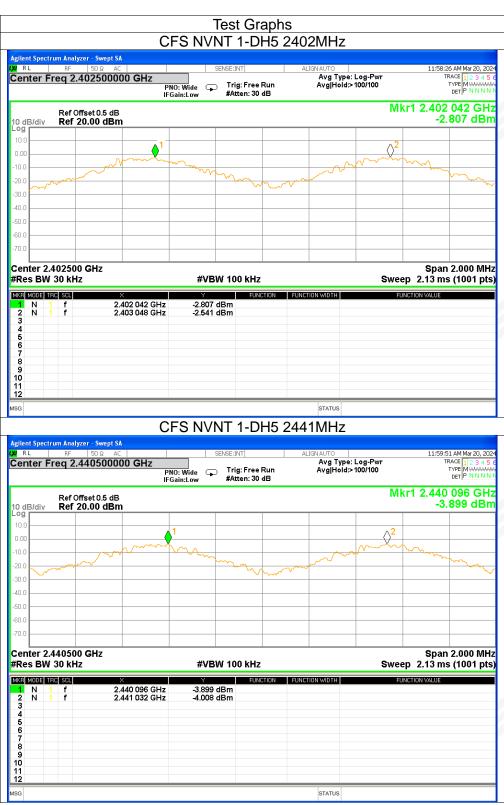
4. Carrier Frequencies Separation

Condition	Mode	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	2402.042	2403.048	1.006	>=0.617	Pass
NVNT	1-DH5	2440.096	2441.032	0.936	>=0.615	Pass
NVNT	1-DH5	2479.06	2480.01	0.95	>=0.62	Pass
NVNT	2-DH5	2402.172	2403.054	0.882	>=0.85	Pass
NVNT	2-DH5	2440.876	2442.028	1.152	>=0.849	Pass
NVNT	2-DH5	2479.034	2480.03	0.996	>=0.851	Pass
NVNT	3-DH5	2402.044	2403.21	1.166	>=0.864	Pass
NVNT	3-DH5	2441.032	2442.208	1.176	>=0.861	Pass
NVNT	3-DH5	2479.052	2480.056	1.004	>=0.862	Pass



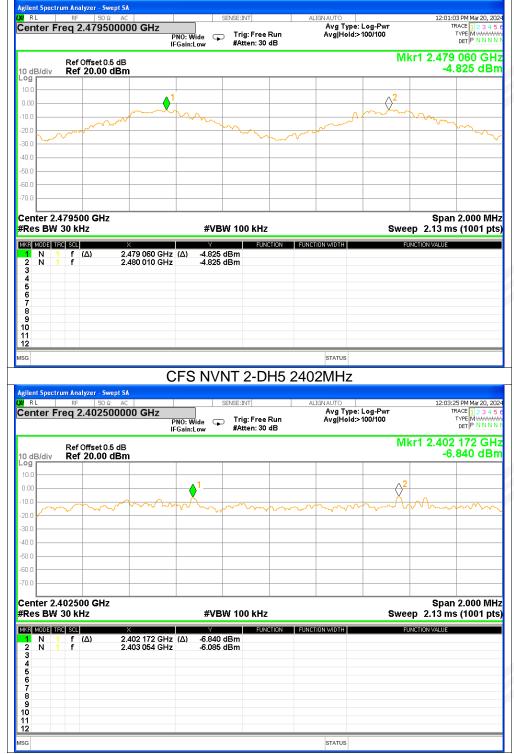
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Report No.: STS2403107W02



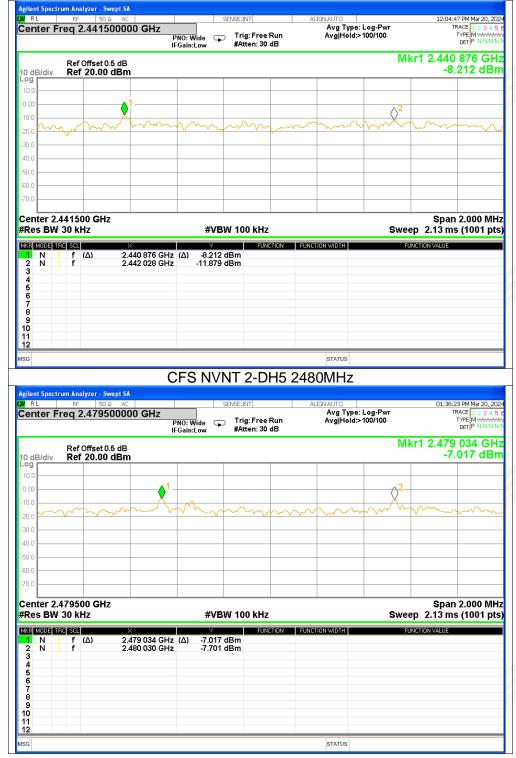


CFS NVNT 1-DH5 2480MHz



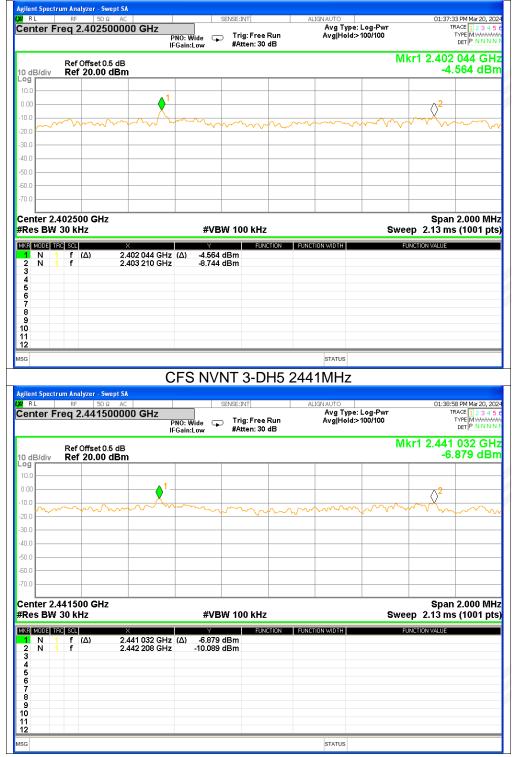


CFS NVNT 2-DH5 2441MHz





CFS NVNT 3-DH5 2402MHz





CFS NVNT 3-DH5 2480MHz





5. Number of Hopping Channel

Condition	Mode	Hopping Number	Limit	Verdict
NVNT	1-DH5	79	>=15	Pass
NVNT	2-DH5	79	>=15	Pass
NVNT	3-DH5	79	>=15	Pass





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Test Graphs Hopping No. NVNT 1-DH5 Hopping RL Center Freq 2.441750000 GHz Avg Type: Log-Pw Avg|Hold:>100/100 RACE Trig: Free Run #Atten: 30 dB DET P N N N N PNO: Fast IFGain:Low \mathbf{r} Mkr1 2.402 087 5 GHz Ref Offset 0.5 dB Ref 20.00 dBm -0.066 dBm 10 dB/div Log \Diamond 0.00 10.0 ################### 20.0 30.0 -40.0 -50.0 60.0 Start 2.40000 GHz Stop 2.48350 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 8.00 ms (1001 pts) MKR MODE TRC SCL FUNCTION FUNCTION WIDTH UNCTION VALUE 2.402 087 5 GHz 2.480 076 5 GHz -0.066 dBm -2.175 dBm 1 N N f f 2 3 4 5 6 7 8 9 10 11 12 STATUS MSG Hopping No. NVNT 2-DH5 Hopping pectrum Analyzer - Swept SA <mark>ໝ</mark> RL RF 50 Ω AC Center Freq 2.441750000 GHz :03:51 PM Mar 20, 202 TRACE 1 2 3 4 5 TYPE MWWWWW DET P N N N N Avg Type: Log-Pwi Avg|Hold:>100/100 Trig: Free Run #Atten: 30 dB PNO: Fast 😱 IFGain:Low Mkr1 2.401 670 0 GHz -9.024 dBm Ref Offset 0.5 dB Ref 20.00 dBm 10 dB/div Log 0.00 march Adudante -20.0 30.0 -40 r -50.0 -60.0 70.0 Start 2.40000 GHz #Res BW 100 kHz Stop 2.48350 GHz Sweep 8.00 ms (1001 pts) #VBW 300 kHz MKR MODE TRC SCL FUNCTION WIDTH INCTION 2.401 670 0 GHz (Δ) 2.480 160 0 GHz -9.024 dBm -8.869 dBm (Δ) 1 2 3 4 5 6 7 8 9 10 11 12 N N f f STATUS ISG



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Hopping No.	NVNT 3-DH5	Hopping
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jilent Spectrum Analyzer - Swept S				
RL RF 50 Ω AC enter Freq 2.4417500	00 GHz		01:37:59 PM Mar a: Log-Pwr TRACE 1 >100/100 TYPE M ₩ DET P N	3456
Ref Offset 0.5 dB 0 dB/div Ref 20.00 dBn			Mkr1 2.401 670 0 -7.063 0	
0.0	Marine and the second of the s	alal and a second of rest and	All and a free free free free free free free fr	2 ²
tart 2.40000 GHz Res BW 100 kHz	#VBW 300		Stop 2.48350 Sweep 8.00 ms (100	
1 N 1 f (Δ) 2.44	× Υ 01 670 0 GHz (Δ) -7.063 dBm 80 410 5 GHz -9.778 dBm	FUNCTION FUNCTION WIDTH	FUNCTION VALUE	
5G		STATUS		











6. Band Edge

Condition	Mode	Frequency (MHz)	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	No-Hopping	-50.49	<=-20	Pass
NVNT	1-DH5	2480	No-Hopping	-54.78	<=-20	Pass
NVNT	2-DH5	2402	No-Hopping	-42.51	<=-20	Pass
NVNT	2-DH5	2480	No-Hopping	-49.47	<=-20	Pass
NVNT	3-DH5	2402	No-Hopping 💚	-50.55	<=-20	Pass
NVNT	3-DH5	2480	No-Hopping	-52.5	<=-20	Pass



















it Spectrum Analyzer - !	Swept SA		NSE:INT	ALIGN AUTO		11:36:03 AM Mar 20, 20
ter Freq 2.402	2000000 GHz	0:Wide ↔	Trig: Free Run	Avg Type: Avg Hold: 1		TRACE 1 2 3 4 5 TYPE MWWWW DET P N N N
Ref Offset		ain:Low	#Atten: 30 dB		Mki	r1 2.402 040 GF
B/div Ref 20.00						-0.230 dB
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ter 2.402000 GH						Span 8.000 Mi
s BW 100 kHz		#VBW	300 kHz	STATUS	#Swee	p 100 ms (1001 pt
Band	d Edge NVN	T 1-DH	5 2402MH		ina Emi	ssion
it Spectrum Analyzer - !	Swept SA				Ŭ	
t Spectrum Analyzer - !	Swept SA 0 Ω AC 6000000 GHz	SEM	VSE:INT	ALIGN AUTO Avg Type:	Log-Pwr	11:36:16 AM Mar 20, 20 TRACE 1 2 3 4 5
nt Spectrum Analyzer - 9 L RF 50	Swept SA 0 ฏ AC 0000000 GHz PN		vse:INT Trig: Free Run #Atten: 30 dB	ALIGN AUTO	Log-Pwr 00/100	11:36:16 AM Mar 20, 20 TRACE 1 2 3 4 5 TYPE MWWWW DET P N N N
nt Spectrum Analyzer - 9 L RF 50	Swept SA □ Ω AC 0000000 GHz PN IFG :0.5 dB	SEM IO: Fast ↔	Trig: Free Run	ALIGN AUTO Avg Type:	Log-Pwr 00/100	11:36:16 AM Mar 20, 20 TRACE 1 2 3 4 5 TYPE M WWARW
it Spectrum Analyzer - 3 L RF 50 Iter Freq 2.356 Ref Offset	Swept SA □ Ω AC 0000000 GHz PN IFG :0.5 dB	SEM IO: Fast ↔	Trig: Free Run	ALIGN AUTO Avg Type:	Log-Pwr 00/100	11:36:16 AM Mar 20, 20 TRACE 1 2 3 4 5 TYPE M WWWW DET P N N N Akr1 2.402 0 GH
it Spectrum Analyzer - 3 L RF 50 Iter Freq 2.356 Ref Offset	Swept SA □ Ω AC 0000000 GHz PN IFG :0.5 dB	SEM IO: Fast ↔	Trig: Free Run	ALIGN AUTO Avg Type:	Log-Pwr 00/100	11:36:16 AM Mar 20, 20 TRACE 1 2 3 4 5 TYPE M WWWW DET P N N N Akr1 2.402 0 GH
it Spectrum Analyzer - 3 L RF 50 Iter Freq 2.356 Ref Offset	Swept SA □ Ω AC 0000000 GHz PN IFG :0.5 dB	SEM IO: Fast ↔	Trig: Free Run	ALIGN AUTO Avg Type:	Log-Pwr 00/100	11:36:16 AM Mar 20, 20 TRACE 1 2 3 4 5 TYPE M WWWW DET P N N N Akr1 2.402 0 GH
it Spectrum Analyzer - 3 L RF 50 Iter Freq 2.356 Ref Offset	Swept SA □ Ω AC 0000000 GHz PN IFG :0.5 dB	SEM IO: Fast ↔	Trig: Free Run	ALIGN AUTO Avg Type:	Log-Pwr 00/100	11:36:16 AM Mar 20, 22 TRACE 12:3 4 TYPE M MARKA DET P NN NT 1kr1 2.402 0 GF -0.305 dB
it Spectrum Analyzer - 3 L RF 50 Iter Freq 2.356 Ref Offset	Swept SA □ Ω AC 0000000 GHz PN IFG :0.5 dB	SEM IO: Fast ↔	Trig: Free Run	ALIGN AUTO Avg Type:	Log-Pwr 00/100	11:36:16 AM Mar 20, 22 TRACE 12:3 4 TYPE M MARKA DET P NN NT 1kr1 2.402 0 GF -0.305 dB
it Spectrum Analyzer - 3 L RF 50 Iter Freq 2.356 Ref Offset	Swept SA □ Ω AC 0000000 GHz PN IFG :0.5 dB	SEM IO: Fast ↔	Trig: Free Run	ALIGN AUTO Avg Type:	Log-Pwr 00/100	11:36:16 AM Mar 20, 22 TRACE 12:3 4 TYPE M MARKA DET P NN NT 1kr1 2.402 0 GH -0.305 dB -0.305 dB
it Spectrum Analyzer - 3 L RF 50 Iter Freq 2.356 Ref Offset	Swept SA □ Ω AC 0000000 GHz PN IFG :0.5 dB	SEM IO: Fast ↔	Trig: Free Run	ALIGN AUTO Avg Type:	Log-Pwr 00/100	11:36:16 AM Mar 20, 22 TRACE 12:3 4 TYPE M MARKA DET P NN NT 1kr1 2.402 0 GH -0.305 dB -0.305 dB
it Spectrum Analyzer - 3 L RF 50 Iter Freq 2.356 Ref Offset	Swept SA □ Ω AC 0000000 GHz PN IFG :0.5 dB	O: Fast →→→	Trig: Free Run	ALIGN AUTO Avg Type:	Log-Pwr 00/100	11:36:16 AM Mar 20, 22 TRACE 12:3 4 TYPE M MARKA DET P NN NT 1kr1 2.402 0 GH -0.305 dB -0.305 dB
It Spectrum Analyzer - 5 L RF SC Iter Freq 2.356 Ref Offset Ref 20.01 	Swept SA 0 Q AC 0 0000000 GHz PN IFG 0 0.5 dB 0 0 dBm 0	0: Fast →→ ain:Low	Trig: Free Run #Atten: 30 dB	ALIGN AUTO Avg Type:	Log-Pwr 00/100	11:36:16 AM Mar 20, 22 TRACE 12:3 4 TYPE M MARKAN DET P NN NT Akr1 2.402 0 GH -0.305 dBI
It Spectrum Analyzer - 5 L RF SC Iter Freq 2.356 B/div Ref 20.01 	Swept SA 0.2 AC Image: Constraint of the system of the	0: Fast →→→ ain:Low #VBW	Trig: Free Run #Atten: 30 dB	ALIGNAUTO	Log-Pwr 00/100	11:36:16 AM Mar 20, 20 TRACE 12 2 3 4 TYPE MUMUM DET P NNN Akr1 2.402 0 GH -0.305 dBI -0.305 dBI
It Spectrum Analyzer - 5 ter Freq 2.356 Ref Offset B/div Ref 20.00 	Swept SA Swept SA Q2 AC Image: Comparison of the system of t	0: Fast →→ ain:Low →→	Trig: Free Run #Atten: 30 dB	ALIGNAUTO	Log-Pwr 00/100	11:36:16 AM Mar 20, 20 TRACE 12 2 3 4 TYPE MUMUM DET P NNN Akr1 2.402 0 GH -0.305 dBI -0.305 dBI
It Spectrum Analyzer - 3 It RF SC Iter Freq 2.356 Ref Offset Ref 20.01 	Swept SA PN Q2 AC PN i0000000 GHz PN IFG :0.5 dB 0 dBm PN :0.5 dB PN PN :0.5 dB :0.5 dB PN	0: Fast →→ ain:Low #VBW ¥ 0.305 dE 52.931 dE	Trig: Free Run #Atten: 30 dB	ALIGNAUTO	Log-Pwr 00/100	11:36:16 AM Mar 20, 20 TRACE 12 2 3 4 TYPE MUMUM DET P NNN Akr1 2.402 0 GH -0.305 dBI -0.305 dBI
It Spectrum Analyzer - 3 It RF SC Iter Freq 2.356 Ref Offset Ref 20.01 	Swept SA PN Q2 AC PN i0000000 GHz PN IFG :0.5 dB 0 dBm PN :0.5 dB PN PN :0.5 dB :0.5 dB PN	0: Fast →→ ain:Low #VBW ¥ 0.305 dE 52.931 dE	Trig: Free Run #Atten: 30 dB	ALIGNAUTO	Log-Pwr 00/100	11:36:16 AM Mar 20, 20 TRACE 12 2 3 4 TYPE MUMUM DET P NNN Akr1 2.402 0 GH -0.305 dBI -0.305 dBI
t Spectrum Analyzer - 3 RF SC ter Freq 2.356 Ref Offset Ref 20.01 	Swept SA PN Q2 AC PN i0000000 GHz PN IFG :0.5 dB 0 dBm PN :0.5 dB PN PN :0.5 dB :0.5 dB PN	0: Fast →→ ain:Low #VBW ¥ 0.305 dE 52.931 dE	Trig: Free Run #Atten: 30 dB	ALIGNAUTO	Log-Pwr 00/100	11:36:16 AM Mar 20, 21 TRACE 12 3 4 1 TYPE MWANAN DET / N N N 1kr1 2.402 0 GF -0.305 dB -0.305 dB 1 2423 d 2434 5 5 5 5 5 5 5 5 5 5 100 ms (1001 pt 100 ms (1001 pt



Ba Spectrum Analyzer - S	and Edge N	NVNT 1-E	JH5 24					
rspectrum Analyzer - RF 50 ter Freq 2.480	000000 GHz	PNO:Wide ↔	Trig: Free F	Run	IGNAUTO Avg Type: Avg Hold:		11:40	0:26 AM Mar 20, 202 TRACE 1 2 3 4 5 TYPE M M M N N N DET P N N N N
Ref Offset	0.5 dB	FGain:Low	#Atten: 30 c	18		N		0 040 GH: 2.136 dBn
8/div Ref 20.00	U dBm							2. 100 0.011
				1				
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Band E		NT 3-DH	5 24021	/Hz No-	Hoppir		ep 100 ms	s (1001 pts)
Band E pectrum Analyzer - Swe	pt SA AC 0000 GHz	NT 3-DH	5 24021	MHZ NO-	Hoppir	ng Emi	ep 100 ms iSSION 11:50:1 TF	5 (1001 pts) 5 AM Mar 20, 2024 AACE 1 2 3 4 5 6
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Band E	pt SA AC 00000 GHz I dB	NT 3-DH	5 24021	MHZ NO-	Hoppir	g-Pwr /100	ep 100 ms iSSION 11:50:1 T Wkr1 2.4 -4.	5 AM Mar 20, 2024 SAM Mar 20, 2024 SACE 11 2 3 4 5 6 TYPE M WAYNAW DET P NN N N N 02 2 GHz 366 dBm
Band E Spectrum Analyzer - Swe RF 50 Q er Freq 2.35600 div Ref Offset 0.5 div Ref 20.00 d 2.30600 GHz BW 100 kHz DE TREG SCL	pt SA AC 00000 GHz dB Bm 	NT 3-DH PNO: Fast IFGain:Low #VBM	5 2402N	AHZ NO-	Hoppir	ng Em g-Pwr /100	ep 100 ms iSSION 11:50:1 T Wkr1 2.4 -4.	5 AMMar 20, 2024 VACE 12 3 4 5 C TYPE M WANNAN 02 2 GHz 366 dBm 1 22 Trailer 40600 GHz
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Spectrum Analyzer - Sv RF 50 : ter Freg 2.4800	Ω AC	SEN	ISE:INT	ALIGNAUTO Avg Type:	Log-Pwr	11:56: T	L4 AM Mar 20, 2024 RACE 1 2 3 4 5 6
101 FIEQ 2.4600	PI	NO: Wide 🔸	Trig: Free Run #Atten: 30 dB	Avg Hold:			TYPE MWWWWW DET P N N N N N
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nter 2.480000 GHz es BW 100 kHz	Z	#VBW	300 kHz		#Sv	eep 100 m	n 8.000 MHz s (1001 pts)
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7. Band Edge(Hopping)

Condition	Mode	Frequency (MHz)	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Hopping	-57.12	<=-20	Pass
NVNT	1-DH5	2480	Hopping	-49.5	<=-20	Pass
NVNT	2-DH5	2402	Hopping	-53.07	<=-20	Pass
NVNT	2-DH5	2480	Hopping	-48.84	<=-20	Pass
NVNT	3-DH5	2402	Hopping	-52.83	<=-20	Pass
NVNT	3-DH5	2480	Hopping	-50.72	<=-20	Pass







ent Spectrum Analyzer - Swe RL RF 50 Ω				**	IGNAUTO			2-01-17 0444	× 20, 2024
ter Freq 2.48000	00000 GHz	NO: Wide ↔	Trig: Free F #Atten: 36 d	Run	Avg Type: Avg Hold: 2	Log-Pwr 2000/2000	1	2:01:17 PM M TRACE 1 TYPE M DET P	
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n <mark>t Spectrum Analyzer - Swa</mark> L RF 50 Ω	ept SA AC 100000 GHz			AL Run	MHz H	oppin		SION 2:01:35 PM M TRACE 1 TYPE M	
nt Spectrum Analyzer - Swa RL RF 50 Ω nter Freq 2.52600 Ref Offset 0.5	ept SA AC 00000 GHz IF 5 dB	SE PNO: Fast ↔	ENSE:INT	AL Run		oppin	1:	2:01:35 PM M. TRACE 1 TYPE M DET P 2.480 0	23456 NNNNN GHz
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Ref Offset 0.6	ept SA AC 00000 GHz IF 5 dB	SE PNO: Fast ↔	ENSE:INT	AL Run		oppin	1:	2:01:35 PM M. TRACE 1 TYPE M DET P 2.480 0	2 3 4 5 6 NNNNN OGHZ dBm
nt Spectrum Analyzer - Swe tu RF 150 g nter Freq 2.52600 Ref Offset 0.5 B/div Ref 25.00 c	ept SA AC 00000 GHz IF 5 dB	SE PNO: Fast ↔	ENSE:INT	AL Run		oppin	1:	2:01:35 PM M. TRACE 1 TYPE M DET P 2.480 0	2 3 4 5 6 NNNNN OGHZ dBm
nt Spectrum Analyzer – Swe LL RF 150 & tter Freq 2.52600 B/div Ref 25.00 c	ept SA AC 00000 GHz IF 5 dB	SE PNO: Fast ↔	ENSE:INT	AL Run		oppin	1: Mkr1 :	2:01:35 PM M TRACE 1 TYPE M Det IP 2.480 0 -2.072	2 3 4 5 6 WWWWW NNNN GHz dBm -22.09 dBm
ent Spectrum Analyzer – Swa RL RF 150 & Inter Freq 2.52600 dB/div Ref 25.00 d	ept SA AC 00000 GHz IF 5 dB	PNO: Fast	ENSE:INT	AL Run		Oppin	1: Mkr1 :	2:01:35 PM M TRACE 1 Type M 2:.480 0 -2.072	2 3 4 5 6 WNNNN O GHz -22.09 dBm
nt Spectrum Analyzer - Sw Ref Offset 0.5 B/div Ref 25.00 of a a a a a a a a a a a a a a a a a a a	ept SA AC 00000 GHz IF 5 dB	PN0: Fast → -Gain:Low →	V 300 KHz			Oppin	1. Mkr1	2:01:35 PM M 1TRACE 1 TYPE M DET P 2.4800 0 -2.072 0 0 0 0 0 0 0 0 0 0 0 0 0	2 3 4 5 6 WNNNN O GHz -22.09 dBm
nt Spectrum Analyzer - Switcher Switcher Switcher Stress Stress Stress Switcher Stress Switcher Stress Switcher Switche	AC AC 100000 GHz 10 10 10 10 10 10 10 10 10 10	PN0: Fast → -Gain:Low #VEV (Δ) -2.072 d -53.677 d -53	V 300 kHz Bm Bm Bm		MHZ H	Oppin	Mkr1	2:01:35 PM M 1TRACE 1 TYPE M DET P 2.4800 0 -2.072 0 0 0 0 0 0 0 0 0 0 0 0 0	2 3 4 5 6 WNNNN O GHz -22.09 dBm
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Pre SO Ω RL PF SO Ω nter Freq 2.52600 Ref Offset 0.5 B/div Ref 25.00 c Image: So Ω Ref 0 ffset 0.5 Image: So Ω Image: So Ω	AC AC 100000 GHz 10 10 10 10 10 10 10 10 10 10	PN0: Fast → -Gain:Low #VEV (Δ) -2.072 d -53.677 d -53	V 300 kHz Bm Bm Bm		MHZ H	Oppin	Mkr1	2:01:35 PM M 1TRACE 1 TYPE M DET P 2.4800 0 -2.072 0 0 0 0 0 0 0 0 0 0 0 0 0	2 3 4 5 6 WNNNN O GHz -22.09 dBm
nt Spectrum Analyzer - Swe L RF 50 Ω tter Freq 2.52600 B/div Ref 25.00 c 1 1 2 2 2 2 4 4 4 4 4 4 4 4 4 4 4 4 4	AC AC 100000 GHz 10 10 10 10 10 10 10 10 10 10	PN0: Fast → -Gain:Low #VEV (Δ) -2.072 d -53.677 d -53	V 300 kHz Bm Bm Bm		MHZ H	Oppin	Mkr1	2:01:35 PM M 1TRACE 1 TYPE M DET P 2.4800 0 -2.072 0 0 0 0 0 0 0 0 0 0 0 0 0	2 3 4 5 6 WNNNN O GHz -22.09 dBm
PF SO Ω PF SO Ω Pr Freq 2.52600 Contract Ref Offset 0.6 Contract Ref 0.6	AC AC 100000 GHz 10 10 10 10 10 10 10 10 10 10	PN0: Fast → -Gain:Low #VEV (Δ) -2.072 d -53.677 d -53	V 300 kHz Bm Bm Bm		MHZ H	Oppin	Mkr1	2:01:35 PM M 1TRACE 1 TYPE M DET P 2.4800 0 -2.072 0 0 0 0 0 0 0 0 0 0 0 0 0	2 3 4 5 6 WNNNN O GHz -22.09 dBm



Band Edge(Hopping) NVNT 2-DH5 2402MHz Hopping Ref ctrum Analyzer 12:04:05 PM Mar 20, 202 TRACE 1 2 3 4 5 TYPE M WWWW DET P N N N N RL SENSE:INT Center Freq 2.402000000 GHz Avg Type: Log-Pwr Avg|Hold: 2000/2000 Trig: Free Run #Atten: 30 dB PNO: Wide IFGain:Low Mkr1 2.403 168 GHz Ref Offset 0.5 dB Ref 20.00 dBm -4.380 dBm 10 dB/div 10. 0.00 ٥ -20.0 30.0 -40 -50.0 M -60.0 Center 2.402000 GHz Span 8.000 MHz #VBW 300 kHz Sweep 1.00 ms (1001 pts) #Res BW 100 kHz STATUS MSG Band Edge(Hopping) NVNT 2-DH5 2402MHz Hopping Emission nt Spectrum Analyzer - Swept SA 04:31 PM Mar 20, 202 TRACE 1 2 3 4 5 TYPE M WWWW DET P N N N N RL Center Freq 2.356000000 GHz Avg Type: Log-Pwr Avg|Hold: 1500/1500 PNO: Fast +++ Trig: Free Run IFGain:Low #Atten: 30 dB Mkr1 2.405 0 GHz Ref Offset 0.5 dB Ref 20.00 dBm -4.230 dBm 10 dB/div Log 0.00 10.0 20.0 30.0 40.0 -50.0 $\langle \rangle^4$ -60.0 -70.0 Start 2.30600 GHz #Res BW 100 kHz Stop 2.40600 GHz #VBW 300 kHz Sweep 9.60 ms (1001 pts) MKR MODE TRC SCL FUNCTION FUNCTION WIDTH UNCTION VALUE 2.405 0 GHz (Δ) 2.400 0 GHz 2.390 0 GHz 2.382 6 GHz -4.230 dBm -57.227 dBm -59.829 dBm -57.458 dBm NNNN (Δ) f f f 2 3 4 5 6 7 8 9 10 11 12 STATUS ISG



nt Spect	RF	50 Ω A			SENS	-INT		ALTON	IAUTO			10/06/1	2 PM Mar 20, 202
		.4800000	000 GHz	PNO: Wide		rig: Free l Atten: 30	Run		Avg Type: Avg Hold: 2			12:00:1 TF	RACE 1 2 3 4 5 TYPE M MAR 20, 202 TYPE M MANANANANANANANANANANANANANANANANANAN
		Offset 0.5 dE	3	IFGain:Low	#	Atten: 30	ab				Mkr1		024 GH2
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nt Spect	rum Ana	lyzer - Swept S		ng) N∖			5 248	30IV	1Hz Ho	oppin	g Er		
it Spect	rum Ana RF		6A .c 100 GHz	PNO: Fast	SENSI		Run	BOIN ALIGN		Log-Pwr	g Er	12:06:3	9 PM Mar 20, 202 RACE 1 2 3 4 5 TYPE M WWWWW DET P N N N N
t Spect L Iter F	rum Ana RF Treq 2	lyzer - Swept S 50 Ω A 5260000 Offset 0.5 dE	5A .c 100 GHz 3		SENSI	::INT	Run	BOIN ALIGN	1Hz H(IAUTO Avg Type:	Log-Pwr		12:06:3 TF	9 PM Mar 20, 202 RACE 1 2 3 4 5 TYPE M MMMMM DET P N N N N 80 0 GHz
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nt Spect	rum Ana RF Treq 2	lyzer - Swept S 50 Ω A 5260000 Offset 0.5 dE	5A .c 100 GHz 3	PNO: Fast	SENSI	::INT	Run	BOIN ALIGN	1Hz H(IAUTO Avg Type:	Log-Pwr		12:06:3 TF	9 PM Mar 20, 202 RACE 1 2 3 4 5 TYPE M MMMMM DET P N N N N 80 0 GHz
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IB/div	rum Ana RF Treq 2	lyzer - Swept S 50 Ω A 5260000 Offset 0.5 dE	5A .c 100 GHz 3	PNO: Fast	SENSI	::INT	Run	BOIN ALIGN	1Hz H(IAUTO Avg Type:	Log-Pwr		12:06:3 TF	9 PM Mar 20, 202 RACE [1 2 3 4 5 1 TYPE M WANNAW DET P N N N N 80 0 GHz 585 dBm
IB/div	Ref 1	lyzer - Swept S 50 Ω A 5260000 Offset 0.5 dE	5A .c 100 GHz 3	PNO: Fast	SENSI	::INT	Run	BOIN ALIGN	1Hz H(IAUTO Avg Type:	Log-Pwr		12:06:3 TF	9 PM Mar 20, 202 RACE [1 2 3 4 5 1 TYPE M WANNAW DET P N N N N 80 0 GHz 585 dBm
IB/div	rum Ana RF Treq 2	lyzer - Swept S 50 Ω A 5260000 Offset 0.5 dE	5A .c 100 GHz 3	PNO: Fast	SENSI	::INT	Run	BOIN ALIGN	1Hz H(IAUTO Avg Type:	Log-Pwr		12:06:3 TF	9 PM Mar 20, 202 RACE [1 2 3 4 5 1 TYPE M WANNAW DET P N N N N 80 0 GHz 585 dBm
IB/div	Ref 1	lyzer - Swept S 50 Ω A 5260000 Offset 0.5 dE	5A .c 100 GHz 3	PNO: Fast	SENSI	::INT	Run	BOIN ALIGN	1Hz H(IAUTO Avg Type:	Log-Pwr		12:06:3 TF	9 PM Mar 20, 202 RACE [1 2 3 4 5 1 TYPE M WANNAW DET P N N N N 80 0 GHz 585 dBm
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IB/div	rum Ane RF req 2 Ref 1 1 1 7600 (1 100 J	Izer - Swept 3 50 2 A 5260000 Offset 0.5 dE 20.00 dBr	54 152 153 154 155 155 155 155 155 155 155	PNO: Fast IFGain:Low		eint rig: Free Atten: 30 -	Run dB		1Hz H(IAUTO Avg Type:	Log-Pwr 500/1500	Mł	12:06:3 TF -6. Stop 2.	9 PM Mar 20, 202 Acce 1 2 3 4 5 Type P N N N N 80 0 GHz 585 dBm -27.08 dBm 57600 GHz
IB/div IB	rum Ane RF req 2 Ref 1 1 1 7600 0 1 100 F	Izer - Swept 3 50 2 A 5260000 Offset 0.5 dE 20.00 dBr	54 C 000 GHz 3 m 2.480 0 GH; 2.483 5 GH;	PNO: Fast IFGain:Low # # ζ (Δ) - 6.5. ζ - 45.5	SENSI 	int rig: Free Atten: 30 i00 kHz	Run dB		AvgType: AvgHold: 1	Log-Pwr 500/1500	Mł	12:06:3 Tr -6. Stop 2. 9.60 ms	9 PM Mar 20, 202 Acce 1 2 3 4 5 Type P N N N N 80 0 GHz 585 dBm -27.08 dBm 57600 GHz
IB/div	rum Ane RF req 2 Ref 1 1 1 7 600 (1 100 l	Izer - Swept 3 50 2 A 5260000 Offset 0.5 dE 20.00 dBr	2.480 0 GHz	PNO: Fast IFGain:Low		CINT rig: Free Atten: 30	Run dB		AvgType: AvgHold: 1	Log-Pwr 500/1500	Mł	12:06:3 Tr -6. Stop 2. 9.60 ms	9 PM Mar 20, 202 Acce 1 2 3 4 5 Type P N N N N 80 0 GHz 585 dBm -27.08 dBm 57600 GHz
IB/div IB	rum Ane RF req 2 Ref 1 1 1 7 7600 (c 1 100 l	Izer - Swept 3 50 2 A 5260000 Offset 0.5 dE 20.00 dBr	2,480 0 GH; 2,500 0 GH;	PNO: Fast IFGain:Low	SENSI →→ T # # 	CINT rig: Free Atten: 30	Run dB		AvgType: AvgHold: 1	Log-Pwr 500/1500	Mł	12:06:3 Tr -6. Stop 2. 9.60 ms	9 PM Mar 20, 202 Acce 1 2 3 4 5 Type P N N N N 80 0 GHz 585 dBm -27.08 dBm 57600 GHz
IB/div IB	rum Ane RF req 2 Ref 1 1 1 7 7600 (c 1 100 l	Izer - Swept 3 50 2 A 5260000 Offset 0.5 dE 20.00 dBr	2,480 0 GH; 2,500 0 GH;	PNO: Fast IFGain:Low	SENSI →→ T # # 	CINT rig: Free Atten: 30	Run dB		AvgType: AvgHold: 1	Log-Pwr 500/1500	Mł	12:06:3 Tr -6. Stop 2. 9.60 ms	9 PM Mar 20, 202 Acce 1 2 3 4 5 Type P N N N N 80 0 GHz 585 dBm -27.08 dBm 57600 GHz
nt Spect	rum Ane RF req 2 Ref 1 1 1 7 7600 (c 1 100 l	Izer - Swept 3 50 2 A 5260000 Offset 0.5 dE 20.00 dBr	2,480 0 GH; 2,500 0 GH;	PNO: Fast IFGain:Low	SENSI →→ T # # 	CINT rig: Free Atten: 30	Run dB		AvgType: AvgHold: 1	Log-Pwr 500/1500	Mł	12:06:3 Tr -6. Stop 2. 9.60 ms	9 PM Mar 20, 202 Acce 1 2 3 4 5 Type P N N N N 80 0 GHz 585 dBm -27.08 dBm 57600 GHz
I Spect ter F B/div B/div t 2.4 t 2.4 S BW	rum Ane RF req 2 Ref 1 1 1 7 7600 (c 1 100 l	Izer - Swept 3 50 2 A 5260000 Offset 0.5 dE 20.00 dBr	2,480 0 GH; 2,500 0 GH;	PNO: Fast IFGain:Low	SENSI →→ T # # 	CINT rig: Free Atten: 30	Run dB		AvgType: AvgHold: 1	Log-Pwr 500/1500	Mł	12:06:3 Tr -6. Stop 2. 9.60 ms	9 PM Mar 20, 202 Acce 1 2 3 4 5 Type P N N N N 80 0 GHz 585 dBm -27.08 dBm 57600 GHz



Band Edge(Hopping) NVNT 3-DH5 2402MHz Hopping Ref ctrum Analyzer 01:38:13 PM Mar 20, 202 TRACE 1 2 3 4 5 TYPE MWWWW DET P N N N N RL SENSE:INT Center Freq 2.402000000 GHz Avg Type: Log-Pwr Avg|Hold: 2000/2000 Trig: Free Run #Atten: 30 dB PNO: Wide IFGain:Low Mkr1 2.403 056 GHz Ref Offset 0.5 dB Ref 20.00 dBm -4.841 dBm 10 dB/div 10. 0.00 Ò -20.0 30.0 -40 -50.0 -60.0 70. Center 2.402000 GHz Span 8.000 MHz #VBW 300 kHz Sweep 1.00 ms (1001 pts) #Res BW 100 kHz STATUS MSG Band Edge(Hopping) NVNT 3-DH5 2402MHz Hopping Emission nt Spectrum Analyzer - Swept SA 38:31 PM Mar 20, 202 TRACE 1 2 3 4 5 TYPE M WWWWW DET P N N N N RL Center Freq 2.356000000 GHz Avg Type: Log-Pwr Avg|Hold: 1000/1000 PNO: Fast +++ Trig: Free Run IFGain:Low #Atten: 30 dB Mkr1 2.404 0 GHz -4.357 dBm Ref Offset 0.5 dB Ref 20.00 dBm 10 dB/div Log 0 0.00 10.0 20.0 30.0 40.0 -50.0 ⊘∱3 Ĉ -60.0 -70.0 Start 2.30600 GHz #Res BW 100 kHz Stop 2.40600 GHz #VBW 300 kHz Sweep 9.60 ms (1001 pts) MKR MODE TRC SCL FUNCTION FUNCTION WIDTH UNCTION VALUE 2.404 0 GHz (Δ) 2.400 0 GHz 2.390 0 GHz 2.388 7 GHz -4.357 dBm -58.732 dBm -59.373 dBm -57.675 dBm NNNN (Δ) f f f 2 3 4 5 6 7 8 9 10 11 12 STATUS ISG



it Spectrum Analyzer - Swe L RF 50 Ω ter Freq 2.48000	AC 0000 GHz	SEP PNO: Wide ↔	NSE:INT	ALIGN AUTO Avg Typ Avg Hold	e: Log-Pwr I: 2000/2000	01:40	23 PM Mar 20, 2024 TRACE 1 2 3 4 5 6 TYPE M WANNAN DET P N N N N N
Ref Offset 0.5 div Ref 20.00 d	١F	FGain:Low	#Atten: 30 dB		N		9 048 GHz 9 063 dBm
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Band Edg	e(Hoppin		300 кнz	status 2480MHz H		-	os (1001 pts) ON
Band Edg Spectrum Analyzer - Swe RF 50 Ω ter Freq 2.52600	pt SA AC 0000 GHz	i g) NVNT	3-DH5	2480MHz H Alignauto Avg Typ	Hopping	Emissi	ON 57 PM Mar 20, 2024 TRACE 1 2 3 4 5 6
Spectrum Analyzer - Swe RF 50 Ω	pt SA AC 0000 GHz	ig) NVNT	3-DH5 :	2480MHz H Alignauto Avg Typ	Hopping	Emissi	ON 57 PM Mar 20, 2024 TRACE 1 2 3 4 5 6 TYPE M WWWWW DET P N N N N
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Ref Offset 0.5	pt SA AC 0000 GHz IF dB	I g) NVNT SEP PN0: Fast ↔	3-DH5	2480MHz H Alignauto Avg Typ	Hopping	Emissi ^{01:40} Mkr1 2.4	ON 57 PM Mar 20, 2024 TRACE 1 2 3 4 5 6 TYPE M WARWAR DET P N N N N 180 2 GHz
Spectrum Analyzer - Swe RF 50 Ω Ser Freq 2.52600 Ref Offset 0.5	pt SA AC 0000 GHz IF dB	I g) NVNT SEP PN0: Fast ↔	3-DH5	2480MHz H Alignauto Avg Typ	Hopping	Emissi ^{01:40} Mkr1 2.4	ON 57 PM Mar 20, 2024 TRACE 1 2 3 4 5 6 TYPE M WARWAR DET P N N N N 180 2 GHz
Spectrum Analyzer - Swe RF 50 Ω er Freq 2.52600 Ref Offset 0.5	pt SA AC 0000 GHz IF dB	I g) NVNT SEP PN0: Fast ↔	3-DH5	2480MHz H Alignauto Avg Typ	Hopping	Emissi ^{01:40} Mkr1 2.4	ON 57 PM Mar 20, 2024 TRACE 1 2 3 4 5 6 TYPE M WARWAR DET P N N N N 180 2 GHz
pectrum Analyzer - Swe RF 50 Ω F Freq 2.52600 Ref Offset 0.5	pt SA AC 0000 GHz IF dB	I g) NVNT SEP PN0: Fast ↔	3-DH5	2480MHz H Alignauto Avg Typ	Hopping	Emissi ^{01:40} Mkr1 2.4	ON 57 PM Mar 20, 2024 TYPE MANNAN DET P NNNN 180 2 GHz 991 dBm
I Spectrum Analyzer - Swe RF 50 Ω ter Freq 2.52600 Ref Offset 0.5	pt SA AC 0000 GHz IF dB	I g) NVNT SEP PN0: Fast ↔	3-DH5	2480MHz H Alignauto Avg Typ	Hopping	Emissi ^{01:40} Mkr1 2.4	ON 57 PM Mar 20, 2024 TYPE MANNAN DET P NNNN 180 2 GHz 991 dBm
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1 Spectrum Analyzer - Swe RF 50 2 ter Freq 2.52600 3/div Ref 20.00 d 1 1 1 1 1 1 1 1 1 1 1 1 1	AC	Ig) NVNT	3-DH5 : vse:inti Trig: Free Run #Atten: 30 dB	Align AUTO Align AUTO Avg Typ AvglHold	Hopping =: Log-Pwr : 2000/2000	Emissi 01:40 Mkr1 2.4 -6	ON 57 PM Mar 20, 2024 TYPE MANNAN DET P NNNN 180 2 GHz 991 dBm
Ref Offset 0.5 Ref 20.00 d 1 1 5 2 2 2 3 4 5 8 1006 10 5 100 10	2,480 2 GHz	Ig) NVNT	Trig: Free Run #Atten: 30 dB	2480MHz H Alignauto Avg Typ	Hopping =: Log-Pwr : 2000/2000	Emissi 01:40 Mkr1 2.4 -6	ON 57 PM Mar 20, 2024 TRACE [] 2 3 4 5 6 TYPE [M WANNAN 180 2 GHz .991 dBm -25 96 dBn -25 96 dBn 2.57600 GHz
PF 50 Ω RF 50 Ω ter Freq 2.52600 Ref Offset 0.5 3/div Ref 20.00 d 1 1 2 1 5 BW 100 GHz 5 BW 100 KHz 1 f 1 f	AC OCOUNT OF THE COUNT OF THE C	ig) NVNT SEP PN0: Fast →→ Gain:Low #VBW (Δ) -6.991 dE -59.113 dE -59.113 dE	Trig: Free Run #Atten: 30 dB	Align AUTO Align AUTO Avg Typ AvglHold	Hopping =: Log-Pwr : 2000/2000	Emissi 01:40 Mkr1 2.4 -6	ON 57 PM Mar 20, 2024 TRACE [] 2 3 4 5 6 TYPE [M WANNAN 180 2 GHz .991 dBm -25 96 dBn -25 96 dBn 2.57600 GHz
PF 50 Ω RF 50 Ω ter Freq 2.52600 Ref Offset 0.5 3/div Ref 20.00 d 1 1 2 1 5 BW 100 GHz 5 BW 100 KHz 1 f 1 f	AC	ig) NVNT SEP PN0: Fast →→ Gain:Low #VBW (Δ) -6.991 dE -59.113 dE -59.113 dE	Trig: Free Run #Atten: 30 dB	Align AUTO Align AUTO Avg Typ AvglHold	Hopping =: Log-Pwr : 2000/2000	Emissi 01:40 Mkr1 2.4 -6	ON 57 PM Mar 20, 2024 TRACE [] 2 3 4 5 6 TYPE [M WANNAN 180 2 GHz .991 dBm -25 96 dBn -25 96 dBn 2.57600 GHz
Spectrum Analyzer - Swe RF 50 Ω ter Freq 2.52600 Wdiv Ref Offset 0.5 Mdiv Ref 20.00 d 1 - 2 - 2 - 5 BW 100 KHz 1 f 1 f	AC	ig) NVNT SEP PN0: Fast →→ Gain:Low #VBW (Δ) -6.991 dE -59.113 dE -59.113 dE	Trig: Free Run #Atten: 30 dB	Align AUTO Align AUTO Avg Typ AvglHold	Hopping =: Log-Pwr : 2000/2000	Emissi 01:40 Mkr1 2.4 -6	ON 57 PM Mar 20, 2024 TRACE [] 2 3 4 5 6 TYPE [M WANNAN 180 2 GHz .991 dBm -25 96 dBn -25 96 dBn 2.57600 GHz
trum Analyzer - Swe	AC	ig) NVNT SEP PN0: Fast →→ Gain:Low #VBW (Δ) -6.991 dE -59.113 dE -59.113 dE	Trig: Free Run #Atten: 30 dB	Align AUTO Align AUTO Avg Typ AvglHold	Hopping =: Log-Pwr : 2000/2000	Emissi 01:40 Mkr1 2.4 -6	ON 57 PM Mar 20, 2024 TRACE [] 2 3 4 5 6 TYPE [M WANNAN 180 2 GHz .991 dBm -25 96 dBn -25 96 dBn 2.57600 GHz

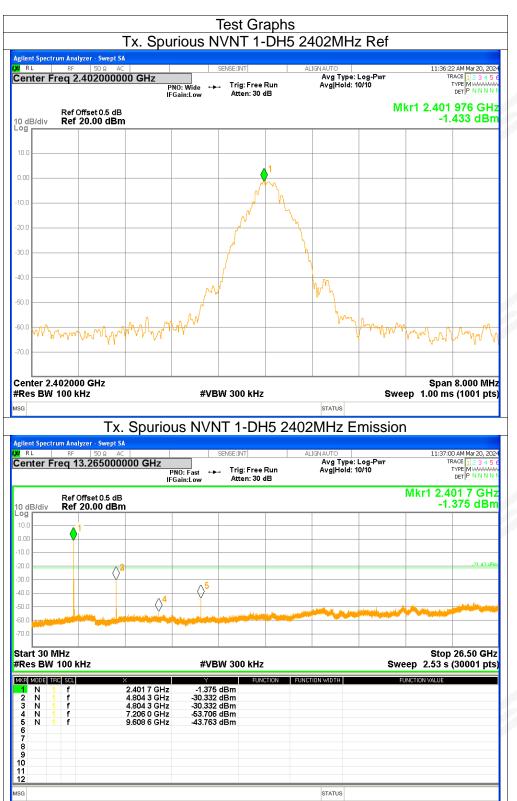


8. Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	-28.9	<=-20	Pass
NVNT	1-DH5	2441	-34.23	<=-20	Pass
NVNT	1-DH5	2480	-35.65	<=-20	Pass
NVNT	2-DH5	2402	-34.34	<=-20	Pass
NVNT	2-DH5	2441	-34.78	<=-20	Pass
NVNT	2-DH5	2480	-36.01	<=-20	Pass
NVNT	3-DH5	2402	-36.08	<=-20	Pass
NVNT	3-DH5	2441	-37.66	<=-20	Pass
NVNT	3-DH5	2480	-39.52	<=-20	Pass



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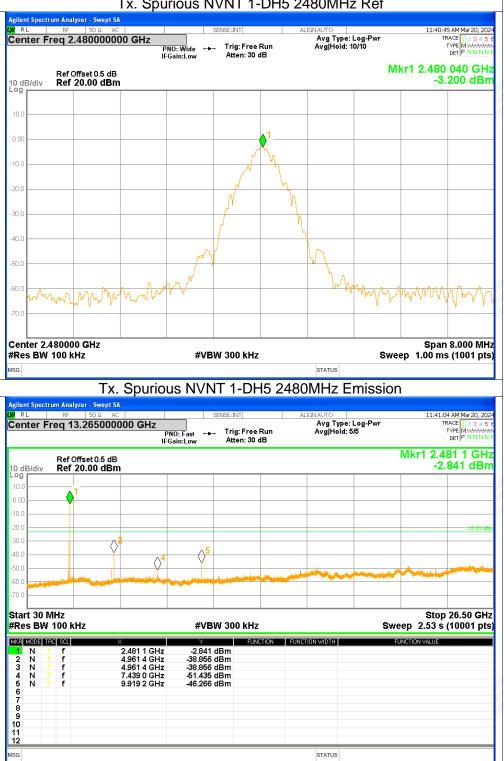




			ree Run	IGNAUTO Avg Type: L Avg Hold: 10	og-Pwr 0/100	11:38:1 Tf	4 AM Mar 20, 2024 RACE 1 2 3 4 5 6 TYPE MWWWWW DET P N N N N
Ref Offset		FGain:Low Atten:	30 dB		Mkr		016 GHz
Ref 20.0						-1.	595 dBm
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- Vr (A.						1 Provido -	
2.441000 GH	łz					Span	8.000 MHz
V 100 kHz		#VBW 300 k	Hz		Sweep	1.00 m	s (1001 pts)
	Tre Cravinia						
ctrum Analyzer -		us NVNT 1-[DH5 2441		nission		
RF 5	Swept SA D Ω AC	DUS NVNT 1-[MHz Er		TE	3 AM Mar 20, 2024 RACE 12 3 4 5 6
RF 5	Swept SA	SENSE:INT	ALI ree Run	MHz Er	og-Pwr	TE	3 AM Mar 20, 2024 RACE 12 3 4 5 6 TYPE MWWWW DET P N N N N
RF 5 Freq 13.26 Ref Offset	Swept SA 0 Ω AC 5000000 GHz 0.5 dB	SENSE:INT	ALI ree Run	MHz Er IGNAUTO Avg Type: L	og-Pwr 5	™ lkr1 2.4	ACE 123456 TYPE MWWWWW DET PNNNN 41 4 GHz
RF 5 Freq 13.26 Ref Offset	Swept SA 0 Ω AC 5000000 GHz 0.5 dB	SENSE:INT	ALI ree Run	MHz Er IGNAUTO Avg Type: L	og-Pwr 5	™ lkr1 2.4	RACE 1 2 3 4 5 6 TYPE MWWWWW DET P N N N N N
RF 5 Freq 13.26 Ref Offset	Swept SA 0 Ω AC 5000000 GHz 0.5 dB	SENSE:INT	ALI ree Run	MHz Er IGNAUTO Avg Type: L	og-Pwr 5	™ lkr1 2.4	ACE 123456 TYPE MWWWWW DET PNNNN 41 4 GHz
RF 5 Freq 13.26 Ref Offset	Swept SA 0 Ω AC 5000000 GHz 0.5 dB	SENSE:INT	ALI ree Run	MHz Er IGNAUTO Avg Type: L	og-Pwr 5	™ lkr1 2.4	ACE 123456 TYPE MWWWWW DET PNNNN 41 4 GHz
RF 5 Freq 13.26 Ref Offset	Swept SA 0 Ω AC 5000000 GHz 0.5 dB	SENSE:INT	ALI ree Run	MHz Er IGNAUTO Avg Type: L	og-Pwr 5	™ lkr1 2.4	ACE 123456 TYPE MWWWWW DET PNNNN 41 4 GHz
RF 5 Freq 13.26 Ref Offset	Swept SA 0.2 AC 5000000 GHz 0 0 dBm 0 dBm	SENSE:INT	ALI ree Run	MHz Er IGNAUTO Avg Type: L	og-Pwr 5	™ lkr1 2.4	
RF 5 Freq 13.26 Ref Offset	Swept SA 0 Ω AC 5000000 GHz 0.5 dB	SENSE:INT PNO: Fast Trig: F FGain:Low Atten:	ALI ree Run	MHz Er IGNAUTO Avg Type: L	og-Pwr 5	™ lkr1 2.4	
RF 5 Freq 13.26 Ref Offset	Swept SA 0.2 AC 5000000 GHz 0 0 dBm 0 dBm	SENSE:INT PNO: Fast Trig: F FGain:Low Atten:	ALI ree Run	MHz Er IGNAUTO Avg Type: L	og-Pwr 5	™ Ikr1 2.4 -3.	
Ref Offset Ref 20.0	Swept SA 0.2 AC 5000000 GHz 0 0 dBm 0 dBm	SENSE:INT PNO: Fast Trig: F FGain:Low Atten:	ALI ree Run	MHz Er IGNAUTO Avg Type: L	og-Pwr 5	" kr1 2.4 -3.	-21 60 dBm
Ref Offset	Swept SA 0.2 AC 5000000 GHz 0 0 dBm 0 dBm	SENSE:INT PNO: Fast → Trig: F FGain:Low Atten:	ree Run 30 dB	MHz Er IGNAUTO Avg Type: L	og-Pwr	" kr1 2.4 -3.	
Ref Offset Ref 20.0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Swept SA D 2 AC 5000000 GHz 0 0.5 dB 0 dBm	SENSE:INT PNO: Fast → Trig: F FGain:Low → Atten: 5 5 #VBW 300 k	ree Run 30 dB	MHz Er	og-Pwr M	" kr1 2.4 -3.	26.50 GHz
Ref Offset Ref 20.0	Swept SA D 2 AC 5000000 GHz 0.5 dB 0 dBm 4 2.441 4 GHz 4.882 0 GHz	SENSE:INT PNO: Fast → Trig: F FGain:Low → Atten:	ree Run 30 dB	MHz Er	og-Pwr M	" kr1 2.4 -3.	26.50 GHz
Ref Offset Ref 20.0	Swept SA D 2 AC 5000000 GHz 0 dBm 0 dBm 4 4 2.441 4 GHz	SENSE:INT PNO: Fast → Trig: F FGain:Low → Atten:	ree Run 30 dB	MHz Er	og-Pwr M	" kr1 2.4 -3.	26.50 GHz
Ref Offset Ref 200 Ref 200 0 MHz W 100 KHz 1 f 1 f 1 f 1 f 1 f 1 f	Swept SA D 2 AC 5000000 GHz 0.5 dB 0 dBm 0 dBm 4 4 4 4 4 4 4 882 0 GHz 4.882 0 GHz 7.322 5 GHz 7.322 5 GHz	SENSE:INT PNO: Fast → Trig: F FGain:Low → Atten:	ree Run 30 dB	MHz Er	og-Pwr M	" kr1 2.4 -3.	26.50 GHz
Ref Offset Ref 20.0 1 0 MHz W 100 KHz 1 1 f 1 f 1 f	Swept SA D 2 AC 5000000 GHz 0.5 dB 0 dBm 0 dBm 4 4 4 4 4 4 4 882 0 GHz 4.882 0 GHz 7.322 5 GHz 7.322 5 GHz	SENSE:INT PNO: Fast → Trig: F FGain:Low → Atten:	ree Run 30 dB	MHz Er	og-Pwr M	" kr1 2.4 -3.	26.50 GHz
Ref Offset Ref Offset Ref 20.0	Swept SA D 2 AC 5000000 GHz 0.5 dB 0 dBm 0 dBm 4 4 4 4 4 4 4 882 0 GHz 4.882 0 GHz 7.322 5 GHz 7.322 5 GHz	SENSE:INT PNO: Fast → Trig: F FGain:Low → Atten:	ree Run 30 dB	MHz Er	og-Pwr M	" kr1 2.4 -3.	26.50 GHz

Tx. Spurious NVNT 1-DH5 2441MHz Ref





Tx. Spurious NVNT 1-DH5 2480MHz Ref



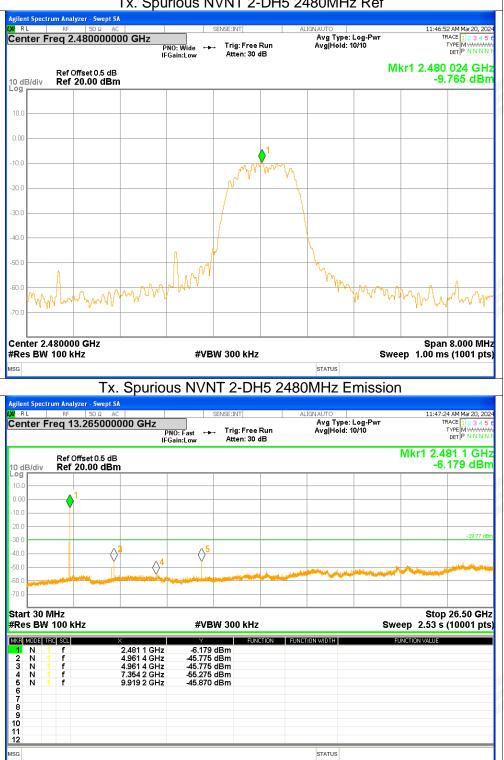
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L	RF 50 Ω AC		SI	ENSE:INT	ALIGN AUTO Avg Type:	Log-Pwr		36 AM Mar 20, 202
iter F	164 2.4020000	F	PNO: Wide ↔→ FGain:Low	Trig: Free Run Atten: 30 dB	Avg Hold:			TYPE MIMMAMM DET P N N N N
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	402000 GHz 100 kHz Tx	. Spurio		v 300 кнz T 2-DH5 2	status 2402MHz E		eep 1.00m	is (1001 pts
s BW	100 kHz	∧ □	ous NVN	T 2-DH5 2	2402MHz E	missio	eep 1.00 m N	09 AM Mar 20, 202
s BW	100 kHz Tx: rum Analyzer - Swept S RF 50 Ω AG	000 GHz	us NVN	T 2-DH5 2	2402MHz E	missio	eep 1.00 m	09 AM Mar 20, 202 TRACE 1 2 3 4 5 TYPE M Mar 20, 202 DET P N N N N
s BW	100 kHz Tx: rum Analyzer - Swept S RF 50 Ω AG	000 GHz		T 2-DH5 2	2402MHz E	missio	eep 1.00 m N 11:44 Mkr1 2.4	09 AM Mar 20, 202
S BW	100 kHz TX, rum Analyzer - Swept S RF 50 Q AG req 13.265000 Ref Offset 0.5 dB	000 GHz		T 2-DH5 2	2402MHz E	missio	eep 1.00 m N 11:44 Mkr1 2.4	09 AM Mar 20, 202 TRACE 12 3 4 5 TYPE MY MAR 20, 202
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Tx. Spurious NVNT 2-DH5 2441MHz Ref





Tx. Spurious NVNT 2-DH5 2480MHz Ref



nt Spectrum Analyzer -	Swept SA						
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Tx Sourious NI/NT 3-DH5 2402MHz Pof



t Spectrum Analyzer -		urious NVN					
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t Spectrum Analyzer - RF 5 ter Freq 13.26	Swept SA 0 Ω AC		3-DH5 24	41MHz Er	nission	11:55:0 т	9 AM Mar 20, 202 RACE 1 2 3 4 5 1
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RF 5 ter Freq 13.26	Swept SA 0 Ω AC 5000000 GHz :0.5 dB		3-DH5 24	41MHz Er	nission •g-Pwr #10	11:55:0 T Mkr1 2.4	9 AM Mar 20, 202 RACE 1 2 3 4 5 TYPE M WARAWM DET P N N N N
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ter F	Image: Second state Social	0 GHz	SEI D: Fast →→ in:Low	NSE:INT	AL AL	IGNAUTO Avg Type:	: Log-Pwr 10/10	11:57: T Mkr1 2.4 -7.	IRACE [1 2 3 4 5 TYPE [1 2 3 4 5 DET P NNN DET P NNN 180 2 GH2 .196 dBm
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Ty Spurious NIVNT 3-DH5 2480MHz Pot



APPENDIX 2-PHOTOS OF TEST SETUP

Note: See test photos in setup photo document for the actual connections between Product and support equipment.

* * * * END OF THE REPORT * * * *