

RADIO TEST REPORT

S T S

Report No.: STS2301115W07

Issued for

Capstone Industries, Inc.

431 Fairway Drive Suite 200 Deerfield Beach, FL 33441, USA

Product Name:	Kitchen Tablet + Food Prep Station	
Brand:	Connected Chef	
Model Number:	Chef Kitchen 1	
Series Model(s):	N/A	
FCC ID:	2BAQRCAP-1815	
Test Standard:	FCC Part 15.247	

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APPROV

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TEST RESULT CERTIFICATION

Applicant's Name:	Capstone Industries, Inc.
Address	431 Fairway Drive Suite 200 Deerfield Beach, FL 33441, USA
Manufacturer's Name:	
Address	Unit 3C, Building D2, TCL Science Park, 1001 Zhongshan Garden Road, Xili, Nanshan District, Shenzhen, China.
Product Description	
Product Name:	Kitchen Tablet + Food Prep Station
Brand	Connected Chef
Model Number	Chef Kitchen 1
Series Model(s)	N/A
Test Standards	FCC Part15.247

Test Procedure: ANSI C63.10-2013

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.

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Date of Test.....

Date of receipt of test item: 13 Jan. 2023

Date (s) of performance of tests : 13 Jan. 2023 ~ 14 Mar. 2023

Date of Issue: 14 Mar. 2023

Test Result: Pass

Testing Engineer

Technical Manager

•

(Chris Chen)



Boney June

(Sean she)

Authorized Signatory :

(Bovey Yang)

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Revision History

Rev.	Issue Date	Report NO.	Effect Page	Contents
00	14 Mar. 2023	STS2301115W07	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			

NOTE:

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

(2) All tests are according to ANSI C63.10-2013.

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1.1 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD Add. : A 1/F, Building B, Zhuoke Science Park, No.190 Chongqing Road, HepingShequ, Fuyong 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

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	±1.197dB
2	Unwanted Emissions, conducted	±2.896dB
3	All emissions, radiated 9K-30MHz	±3.84dB
4	All emissions, radiated 30M-1GHz	±3.94dB
5	All emissions, radiated 1G-6GHz	±4.59dB
6	All emissions, radiated>6G	±5.22dB
7	Conducted Emission (9KHz-150KHz)	±2.14dB
8	Conducted Emission (150KHz-30MHz)	±2.54dB



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

ps),

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.

	Channel 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		

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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.



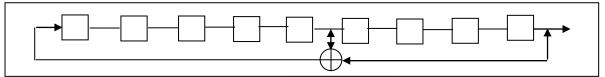
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The incorporation of intelligence within a frequency hopping spread spectrum system that permits the system to recognize other users within the spectrum band so that it individually and independently chooses and adapts its hop sets to avoid hopping 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.

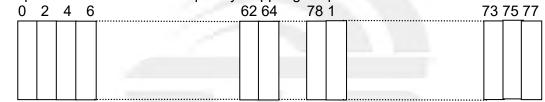
(2)The Pseudorandom sequence may be generated in a nin-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first one of 9 consecutive ones: i.e. the shift register is initialized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

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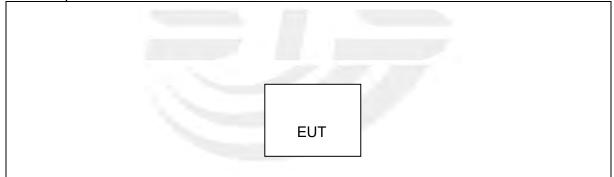
2.4 TABLE OF PARAMETERS OF TEST SOFTWARE SETTING

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.

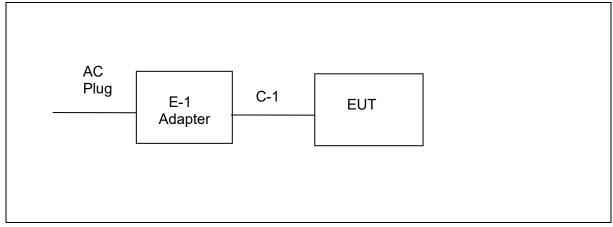
Test software Version	Test program: Bluetooth		
(Power control software) Parameters(1/2/3Mbps)	Power class: DH1 rate:4:27 2DH1 rate:20:54 3DH1 rate:24:83	Power class: DH3 rate:11:183 2DH3 rate:26:367 3DH3 rate:27:552	Power class: DH5 rate:15:339 2DH5 rate:30:679 3DH5 rate:31:1021

RF Function	Туре	Mode Or Modulation type	ANT Gain(dBi)	Power Class	Software For Testing
		GFSK	-0.8	Default	
BT	BR+EDR	π/4-DQPSK	-0.8	Default	Engineering Mode
		8DPSK	-0.8	Default	

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



Conducted Emission Test



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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.

Item	Equipment	Mfr/Brand	Model/Type No.	Length	Note
E-1	Adapter	N/A	KA12C-0502000US	N/A	N/A
C-1	USB Cable	N/A	N/A	200cm	NO

Support units

Item	Equipment	Mfr/Brand	Model/Type No.	Length	Note
N/A	N/A	N/A	N/A	N/A	N/A
		- 9			
		1			

Note:

- (1) For detachable type I/O cable should be specified the length in cm in ^CLength₂ column.
- (2) "YES" is means "with core"; "NO" is means "without core".



2.7 EQUIPMENTS LIST

		RF Radiation Tes	t Equipment		
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
Temperature & Humidity	SW-108	SuWei	N/A	2023.03.01	2024.02.28
Pre-Amplifier (0.1M-3GHz)	EM	EM330	060665	2022.07.04	2023.07.03
Pre-Amplifier (1G-18GHz)	SKET	LNPA-01018G-45	SK2018080901	2022.09.29	2023.09.28
Pre-mplifier (18G-40G)	SKET	LNPA_1840-50	SK2018101801	2022.07.23	2023.07.22
Positioning Controller	MF	MF-7802	MF-780208587	N/A	N/A
Signal Analyzer	R&S	FSV 40-N	101823	2022.09.29	2023.09.28
Switch Control Box	N/A	N/A	N/A	N/A	N/A
Filter Box	BALUN Technology	SU319E	BL-SZ1530051	N/A	N/A
Active loop Antenna	ZHINAN	ZN30900C	16035	2023.02.28	2024.02.27
Bilog Antenna	TESEQ	CBL6111D	34678	2022.09.30	2024.09.29
Horn Antenna	SCHWARZBE CK	BBHA 9120D	02014	2021.10.11	2023.10.10
Horn Antenna	A-INFOMW	LB-180400-KF	J211020657	2021.09.28	2023.09.27
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	Zhaoxin	RXN 605D	20R605D11010081	N/A	N/A
Test SW	EZ-EMC		Ver.STSLAB-03A	1 RE	
		Conduction Test	equipment		
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Test Receiver	R&S	ESCI	101427	2022.09.29	2023.09.28
LISN	R&S	ENV216	101242	2022.09.28	2023.09.27
LISN	EMCO	3810/2NM	23625	2022.09.28	2023.09.27
Temperature & Humidity	HH660	Mieo	N/A	2022.09.30	2023.09.29
Test SW	EZ-EMC		Ver.STSLAB-03A	1 CE	
		RF Connect	ed Test		
Kind of Equipment	Manufacturer	Туре No.	Serial No.	Last calibration	Calibrated until
Signal Analyzer	Agilent	N9020A	MY51510623	2023.03.01	2024.02.28
Switch control box	MW	MW100-RFCB	N/A	N/A	N/A
Temperature & Humidity	HH660	Mieo	N/A	2022.09.30	2023.09.29
Test SW	MW		MTS 8310_2.0	.0.0	

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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

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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.
 - Vertical Reference Ground Plane EUT 40cm EUT 80cm N Horizontal Reference Ground Plane

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.

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3.1.5 TEST RESULT

Temperature:	21.7(C)	Relative Humidity:	42%RH
Test Voltage:	AC 120V/60Hz	Phase:	L
Test Mode:	Mode 13		

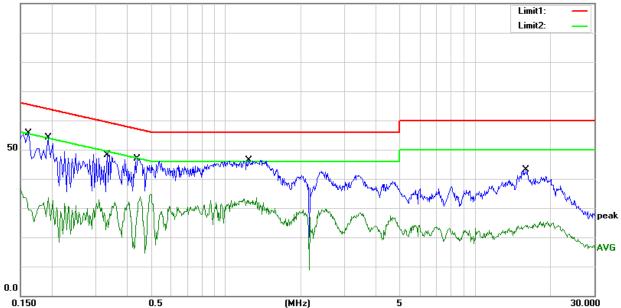
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB)	(dBuV)	(dBuV)	(dB)	
1	0.1620	45.32	10.33	55.65	65.36	-9.71	QP
2	0.1620	26.41	10.33	36.74	55.36	-18.62	AVG
3	0.1940	43.87	10.31	54.18	63.86	-9.68	QP
4	0.1940	23.42	10.31	33.73	53.86	-20.13	AVG
5	0.3340	37.56	10.68	48.24	59.35	-11.11	QP
6	0.3340	22.15	10.68	32.83	49.35	-16.52	AVG
7	0.4420	36.45	10.54	46.99	57.02	-10.03	QP
8	0.4420	24.20	10.54	34.74	47.02	-12.28	AVG
9	1.2380	36.10	10.30	46.40	56.00	-9.60	QP
10	1.2380	23.37	10.30	33.67	46.00	-12.33	AVG
11	15.9980	31.07	11.97	43.04	60.00	-16.96	QP
12	15.9980	13.37	11.97	25.34	50.00	-24.66	AVG

Remark:

1. All readings are Quasi-Peak and Average values

2. Margin = Result (Result = Reading + Factor)-Limit

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



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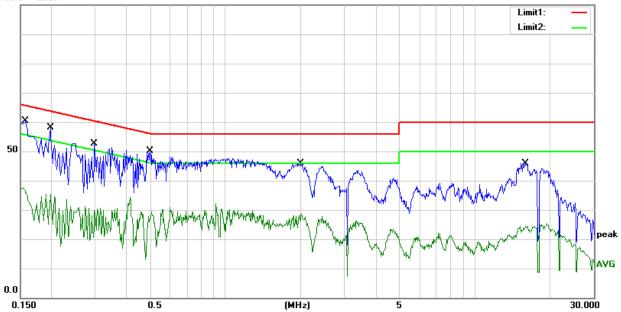
Temperature:	21.7(C)	Relative Humidity:	42%RH
Test Voltage:	AC 120V/60Hz	Phase:	Ν
Test Mode:	Mode 13		

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB)	(dBuV)	(dBuV)	(dB)	
1	0.1580	49.95	10.31	60.26	65.57	-5.31	QP
2	0.1580	27.28	10.31	37.59	55.57	-17.98	AVG
3	0.1980	47.72	10.40	58.12	63.69	-5.57	QP
4	0.1980	25.08	10.40	35.48	53.69	-18.21	AVG
5	0.2980	41.94	10.78	52.72	60.30	-7.58	QP
6	0.2980	20.39	10.78	31.17	50.30	-19.13	AVG
7	0.4980	39.75	10.49	50.24	56.03	-5.79	QP
8	0.4980	23.89	10.49	34.38	46.03	-11.65	AVG
9	2.0060	35.49	10.39	45.88	56.00	-10.12	QP
10	2.0060	18.25	10.39	28.64	46.00	-17.36	AVG
11	16.0140	34.08	11.84	45.92	60.00	-14.08	QP
12	16.0140	13.48	11.84	25.32	50.00	-24.68	AVG

Remark:

1. All readings are Quasi-Peak and Average values

- 2. Margin = Result (Result = Reading + Factor)–Limit
- 3. Factor=LISN factor+Cable loss+Limiter (10dB)
- 100.0 dBuV



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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 C63.10-2013 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)		
FREQUENCT (MILZ)	PEAK	AVERAGE	
Above 1000	74	54	

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	399.9-410	4.5-5.15
0.495-0.505	16.69475-16.69525	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			

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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		
Detector	Peak/AV		
Start/Stop Fraguenay	Lower Band Edge: 2310 to 2410 MHz		
Start/Stop Frequency	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.

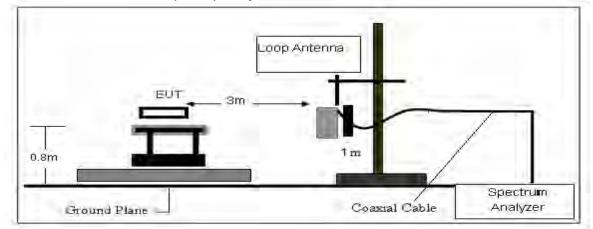
3.2.3 DEVIATION FROM TEST STANDARD

No deviation.

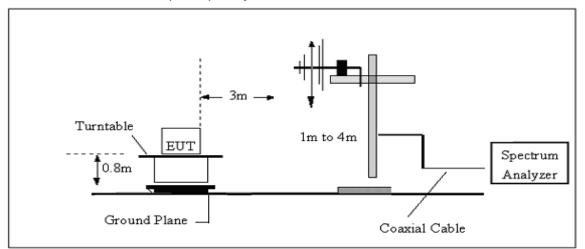


3.2.4 TESTSETUP

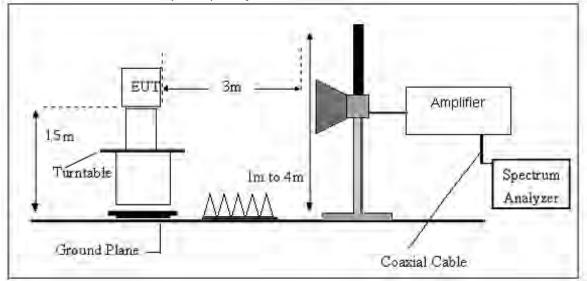
(A) Radiated Emission Test-Up Frequency Below 30MHz

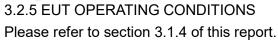


(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(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 - AG Where 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



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3.2.7 TEST RESULTS

(9KHz-30MHz)

Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 3.8V	Test Mode:	TX Mode

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



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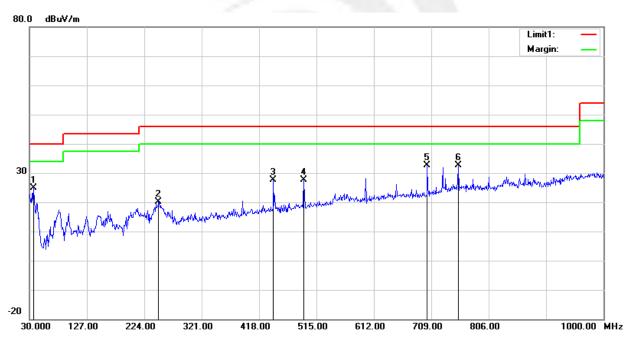
(30MHz-1000MHz)

Temperature:	23.1(C)	Relative Humidity:	60%RH		
Test Voltage:	DC 3.8V	Phase:	Horizontal		
Test Mode:	Mode 1/2/3/4/5/6/7/8/9(Mode 2 worst mode)				

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	36.7900	41.36	-16.39	24.97	40.00	-15.03	peak
2	248.2500	36.61	-16.43	20.18	46.00	-25.82	peak
3	442.2500	37.74	-9.99	27.75	46.00	-18.25	peak
4	493.6600	35.81	-8.15	27.66	46.00	-18.34	peak
5	702.2100	36.72	-4.10	32.62	46.00	-13.38	peak
6	754.5900	34.85	-2.16	32.69	46.00	-13.31	peak

Remark:

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





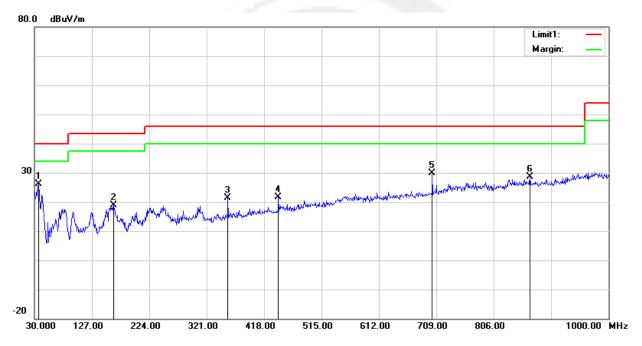
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Temperature:	23.1(C)	Relative Humidity:	60%RH		
Test Voltage:	DC 3.8V	Phase:	Vertical		
Test Mode:	Mode 1/2/3/4/5/6/7/8/9(Mode 2 worst mode)				

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	36.7900	42.42	-16.39	26.03	40.00	-13.97	peak
2	163.8600	37.99	-19.22	18.77	43.50	-24.73	peak
3	356.8900	34.19	-12.93	21.26	46.00	-24.74	peak
4	442.2500	31.55	-9.99	21.56	46.00	-24.44	peak
5	702.2100	33.86	-4.10	29.76	46.00	-16.24	peak
6	867.1100	29.04	-0.50	28.54	46.00	-17.46	peak

Remark:

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



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(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	
				Low Ch	nannel (GFSK/2	2402 MHz)				
3264.70	62.13	44.70	6.70	28.20	-9.80	52.33	74.00	-21.67	PK	Vertical
3264.70	51.24	44.70	6.70	28.20	-9.80	41.44	54.00	-12.56	AV	Vertical
3264.79	61.29	44.70	6.70	28.20	-9.80	51.49	74.00	-22.51	PK	Horizontal
3264.79	50.87	44.70	6.70	28.20	-9.80	41.07	54.00	-12.93	AV	Horizontal
4804.41	59.01	44.20	9.04	31.60	-3.56	55.45	74.00	-18.55	PK	Vertical
4804.41	50.41	44.20	9.04	31.60	-3.56	46.85	54.00	-7.15	AV	Vertical
4804.40	59.23	44.20	9.04	31.60	-3.56	55.67	74.00	-18.33	PK	Horizontal
4804.40	49.52	44.20	9.04	31.60	-3.56	45.96	54.00	-8.04	AV	Horizontal
5359.71	49.08	44.20	9.86	32.00	-2.34	46.74	74.00	-27.26	PK	Vertical
5359.71	39.49	44.20	9.86	32.00	-2.34	37.15	54.00	-16.85	AV	Vertical
5359.81	47.72	44.20	9.86	32.00	-2.34	45.38	74.00	-28.62	PK	Horizontal
5359.81	38.66	44.20	9.86	32.00	-2.34	36.32	54.00	-17.68	AV	Horizontal
7205.90	53.85	43.50	11.40	35.50	3.40	57.25	74.00	-16.75	PK	Vertical
7205.90	44.18	43.50	11.40	35.50	3.40	47.58	54.00	-6.42	AV	Vertical
7205.71	53.61	43.50	11.40	35.50	3.40	57.01	74.00	-16.99	PK	Horizontal
7205.71	44.02	43.50	11.40	35.50	3.40	47.42	54.00	-6.58	AV	Horizontal
		•		Middle C	Channel (GFSK	/2441 MHz)			•	
3264.62	61.25	44.70	6.70	28.20	-9.80	51.45	74.00	-22.55	PK	Vertical
3264.62	50.66	44.70	6.70	28.20	-9.80	40.86	54.00	-13.14	AV	Vertical
3264.62	62.14	44.70	6.70	28.20	-9.80	52.34	74.00	-21.66	PK	Horizontal
3264.62	50.38	44.70	6.70	28.20	-9.80	40.58	54.00	-13.42	AV	Horizontal
4882.35	58.87	44.20	9.04	31.60	-3.56	55.31	74.00	-18.69	PK	Vertical
4882.35	49.91	44.20	9.04	31.60	-3.56	46.35	54.00	-7.65	AV	Vertical
4882.41	59.16	44.20	9.04	31.60	-3.56	55.60	74.00	-18.40	PK	Horizontal
4882.41	50.30	44.20	9.04	31.60	-3.56	46.74	54.00	-7.26	AV	Horizontal
5359.60	48.28	44.20	9.86	32.00	-2.34	45.94	74.00	-28.06	PK	Vertical
5359.60	40.17	44.20	9.86	32.00	-2.34	37.83	54.00	-16.17	AV	Vertical
5359.68	48.00	44.20	9.86	32.00	-2.34	45.66	74.00	-28.34	PK	Horizontal
5359.68	38.93	44.20	9.86	32.00	-2.34	36.59	54.00	-17.41	AV	Horizontal
7323.75	53.90	43.50	11.40	35.50	3.40	57.30	74.00	-16.70	PK	Vertical
7323.75	44.50	43.50	11.40	35.50	3.40	47.90	54.00	-6.10	AV	Vertical
7323.67	54.37	43.50	11.40	35.50	3.40	57.77	74.00	-16.23	PK	Horizontal
7323.67	43.95	43.50	11.40	35.50	3.40	47.35	54.00	-6.65	AV	Horizontal



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				High Char	nnel (GFSK/	2480 MHz)				
3264.64	61.23	44.70	6.70	28.20	-9.80	51.43	74.00	-22.57	PK	Vertical
3264.64	49.95	44.70	6.70	28.20	-9.80	40.15	54.00	-13.85	AV	Vertical
3264.84	61.53	44.70	6.70	28.20	-9.80	51.73	74.00	-22.27	PK	Horizontal
3264.84	51.18	44.70	6.70	28.20	-9.80	41.38	54.00	-12.62	AV	Horizontal
4960.53	58.80	44.20	9.04	31.60	-3.56	55.24	74.00	-18.76	PK	Vertical
4960.53	50.61	44.20	9.04	31.60	-3.56	47.05	54.00	-6.95	AV	Vertical
4960.49	59.32	44.20	9.04	31.60	-3.56	55.76	74.00	-18.24	PK	Horizontal
4960.49	50.06	44.20	9.04	31.60	-3.56	46.50	54.00	-7.50	AV	Horizontal
5359.59	48.05	44.20	9.86	32.00	-2.34	45.70	74.00	-28.30	PK	Vertical
5359.59	40.16	44.20	9.86	32.00	-2.34	37.82	54.00	-16.18	AV	Vertical
5359.71	47.91	44.20	9.86	32.00	-2.34	45.57	74.00	-28.43	PK	Horizontal
5359.71	39.44	44.20	9.86	32.00	-2.34	37.10	54.00	-16.90	AV	Horizontal
7439.81	53.90	43.50	11.40	35.50	3.40	57.30	74.00	-16.70	PK	Vertical
7439.81	44.03	43.50	11.40	35.50	3.40	47.43	54.00	-6.57	AV	Vertical
7439.67	54.20	43.50	11.40	35.50	3.40	57.60	74.00	-16.40	PK	Horizontal
7439.67	43.50	43.50	11.40	35.50	3.40	46.90	54.00	-7.10	AV	Horizontal

Note:

- 1) Scan with GFSK, π /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.

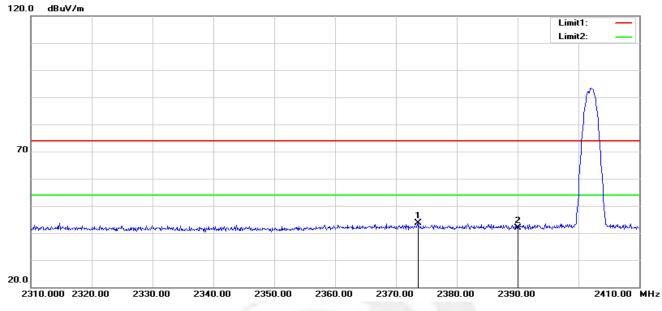




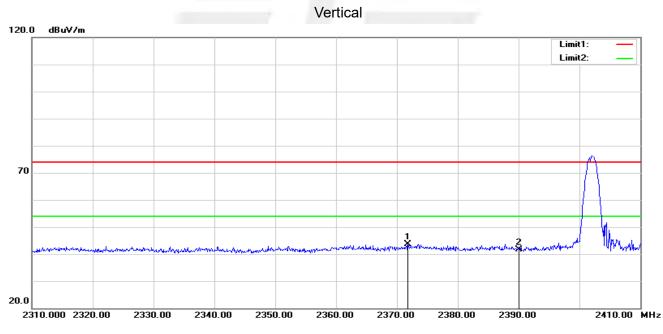
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Restricted band Requirements

GFSK-Low Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2373.600	39.61	4.09	43.70	74.00	-30.30	peak
2	2390.000	37.46	4.34	41.80	74.00	-32.20	peak



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2371.800	39.56	4.06	43.62	74.00	-30.38	peak
2	2390.000	37.24	4.34	41.58	74.00	-32.42	peak

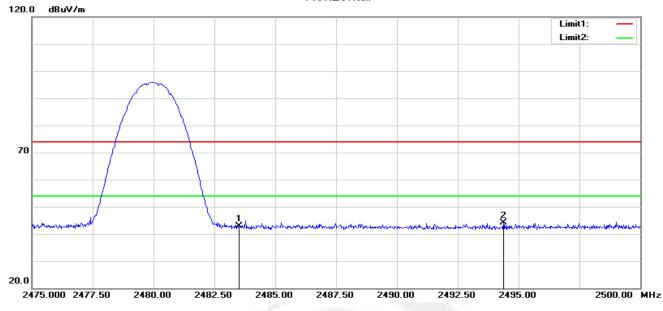
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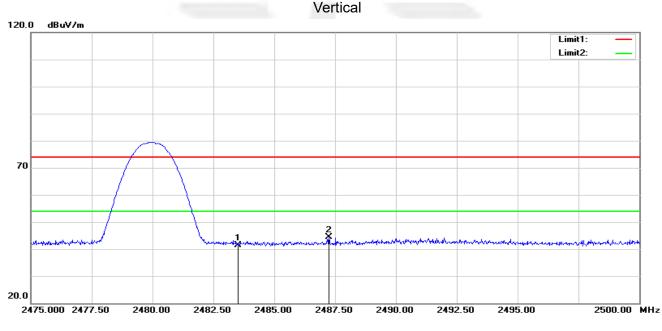
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GFSK-High Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	38.16	4.60	42.76	74.00	-31.24	peak
2	2494.375	39.39	4.63	44.02	74.00	-29.98	peak



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	36.80	4.60	41.40	74.00	-32.60	peak
2	2487.250	39.76	4.62	44.38	74.00	-29.62	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.

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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			
Start/Stop Eraguapay	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
Start/Stop Eraguanay	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



4.3 TEST SETUP



The EUT is connected to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 500hm; 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

Note: The test data please refer to APPENDIX 1.



5. NUMBER OF HOPPING CHANNEL

5.1 LIMIT

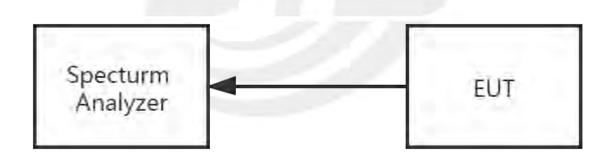
FCC Part 15.247,Subpart C				
Section	Test Item	Limit	FrequencyRange (MHz)	Result
15.247 (a)(1)(iii)	Number of Hopping Channel	≥15	2400-2483.5	PASS

Spectrum Parameters	Setting
Attenuation	Auto
Span Frequency	> Operating FrequencyRange
RB	300KHz
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= 300KHz, 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

Note: The test data please refer to APPENDIX 1.



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.
- \tilde{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 x 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 x 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 x 31.6 = 320.

6.3 TEST SETUP



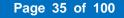
6.4 EUT OPERATION CONDITIONS

Please refer to section 3.1.4 of this report.

6.5 TEST RESULTS

Note: The test data please refer to APPENDIX 1.

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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	ectrum 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	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

Note: The test data please refer to APPENDIX 1.



8. BANDWIDTH TEST

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	

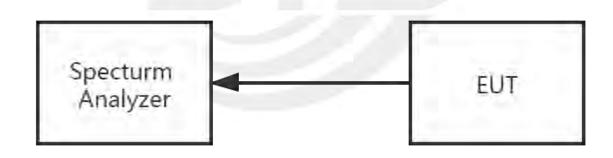
Spectrum Parameter	Setting	
Attenuation	Auto	
Span Frequency	> Measurement Bandwidth or Channel Separation	
RB	30 kHz (20dB Bandwidth) / 30 kHz (Channel Separation)	
VB	100 kHz (20dB Bandwidth) / 100 kHz (Channel Separation)	
Detector	Peak	
Trace	Max Hold	
Sweep Time	Auto	

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

FCC Part 15.247,Subpart C									
Section	Test Item	Limit	Frequency Range (MHz)	Result					
		1 W or 0.125W							
15.247 (a)(1)&(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 \geq 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.

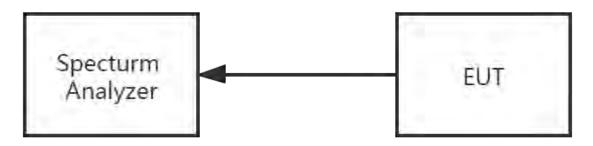
e) A plot of the test results and setup description shall be included in the test report.

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.

9.3 TEST SETUP



9.4 EUT OPERATION CONDITIONS

Please refer to section 3.1.4 of this report.

9.5 TEST RESULTS

Note: The test data please refer to APPENDIX 1.

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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 PIFA Antenna. It comply with the standard requirement.



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APPENDIX 1-TEST DATA

1. Dwell Time

Condition	Mode	Frequency	Pulse	Total Dwell	Burst	Period	Limit	Verdict
		(MHz)	Time (ms)	Time (ms)	Count	Time (ms)	(ms)	
NVNT	1-DH1	2441	0.378	119.448	316	31600	<=400	Pass
NVNT	1-DH3	2441	1.634	245.1	150	31600	<=400	Pass
NVNT	1-DH5	2441	2.882	302.61	105	31600	<=400	Pass
NVNT	2-DH1	2441	0.385	122.045	317	31600	<=400	Pass
NVNT	2-DH3	2441	1.637	257.009	157	31600	<=400	Pass
NVNT	2-DH5	2441	2.885	305.81	106	31600	<=400	Pass
NVNT	3-DH1	2441	0.386	122.362	317	31600	<=400	Pass
NVNT	3-DH3	2441	1.636	253.58	155	31600	<=400	Pass
NVNT	3-DH5	2441	2.887	268.491	93	31600	<=400	Pass

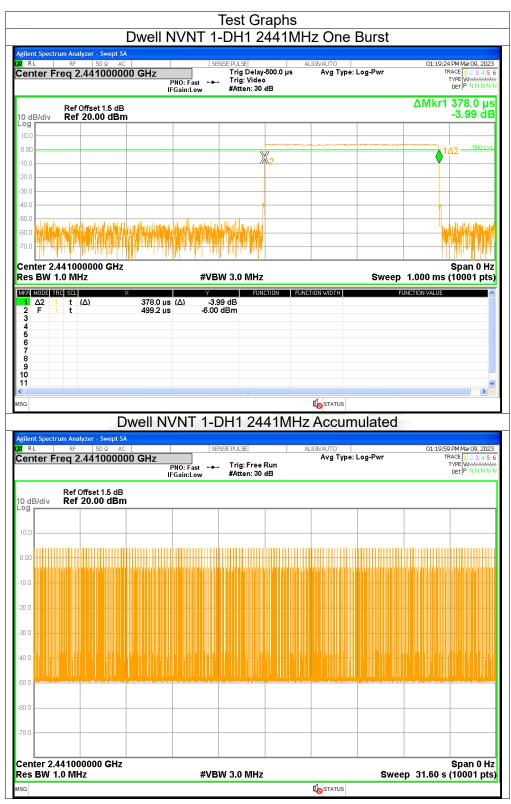


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Dwell NVNT 1-DH3 2441MHz One Burst - Swept SA ilent Spectrum Analyzer 44 PM Mar 09, 2023 TRACE 1 2 3 4 5 6 TYPE WWWWWW DET P N N N N RL E:PULSE Trig Delay-500.0 μs Trig: Video #Atten: 30 dB Center Freq 2.441000000 GHz Avg Type: Log-Pwr PNO: Fast IFGain:Low \rightarrow ∆Mkr1 1.634 ms -3.39 dB Ref Offset 1.5 dB Ref 20.00 dBm I0 dB/div og 21Δ2 n n TRIG L ×2 20.0 30.0 40.0 50.0 (iso, it for a statical all and for its o the tradition of the which presed along the standard ball of the first of the standard ball of the standard ball -60.0 lini kanala jikiki jini ka jik ينت اعتدير اعتر وريابا المراقعات Center 2.441000000 GHz Span 0 Hz Res BW 1.0 MHz #VBW 3.0 MHz Sweep 3.000 ms (10001 pts) MKR MODE TRC SCL FUNCTION FUNCTION WIDTH FUNCTION VALUE Т Milling 1 Δ2 2 F 3 4 5 6 7 8 9 10 11 Δ2 t (∆) t 1.634 ms (∆) 498.9 µs -3.39 dB -3.85 dBm **I**status -Dwell NVNT 1-DH3 2441MHz Accumulated 01:22:19 PM Mar 09, 2023 TRACE 1 2 3 4 5 (TYPE WWWWWW DET P N N N N B1 Center Freq 2.441000000 GHz Avg Type: Log-Pwr Trig: Free Run #Atten: 30 dB PNO: Fast +++ IFGain:Low Ref Offset 1.5 dB Ref 20.00 dBm 10 dB/div 20 an i 40.0 in: Span 0 Hz Sweep 31.60 s (10001 pts) Center 2.441000000 GHz Res BW 1.0 MHz #VBW 3.0 MHz To STATUS SG

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Dwell NVNT 1-DH5 2441MHz One Burst ilent Spectrum Analyzer - Swept SA 11:03:58 AM Mar 09, 2023 TRACE 1 2 3 4 5 6 TYPE WWWWW DET P N N N N N RL Trig Delay-500.0 μs Trig: Video Atten: 30 dB Center Freq 2.441000000 GHz Avg Type: Log-Pwr PNO: Fast IFGain:Low \rightarrow ΔMkr1 2.882 ms -2.44 dB Ref Offset 1.5 dB Ref 20.00 dBm I0 dB/div og ^1∆2 n n TRIG L ₩2 20.0 30.0 40.0 50.0 lat the street part of خان أعقم إخارة والته -60.0 1.4 Center 2.441000000 GHz Span 0 Hz Res BW 1.0 MHz #VBW 3.0 MHz Sweep 4.000 ms (10001 pts) MKR MODE TRC SCL FUNCTION FUNCTION WIDTH FUNCTION VALUE Т Milling 1 Δ2 2 F 3 4 5 6 7 8 9 10 11 Δ2 t (∆) t -2.44 dB -2.41 dBm 2.882 ms (Δ) 498.8 μs **I**status -Dwell NVNT 1-DH5 2441MHz Accumulated 11:04:33 AM Mar 09, 2023 TRACE 1 2 3 4 5 (TYPE WWWWW DET P N N N N BI Center Freq 2.441000000 GHz Avg Type: Log-Pwr Trig: Free Run Atten: 30 dB PNO: Fast ↔↔ IFGain:Low Ref Offset 1.5 dB Ref 20.00 dBm 10 dB/div n nr 20.0 RD. 40.0 50. Span 0 Hz Sweep 31.60 s (10001 pts) Center 2.441000000 GHz Res BW 1.0 MHz #VBW 3.0 MHz **I**STATUS SG

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		ell NVNT 2-D	DH1 2441MI	Hz One Burst	
RL	Analyzer - Swept SA RF 50 Ω AC			ALIGNAUTO	01:23:47 PM Mar 09, 202
enter Free	q 2.441000000 GH	HZ PNO: Fast ↔→ IFGain:Low	Trig Delay-500.0 μs Trig: Video #Atten: 30 dΒ	Avg Type: Log-Pwr	TRACE 1 2 3 4 5 TYPE WWWWW DET P N N N N
	Ref Offset 1.5 dB Ref 20.00 dBm				ΔMkr1 385.0 μ -0.52 di
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enter 2.44 es BW 1.0	1000000 GHz MHz	#VBW	3.0 MHz	Sweep	Span 0 H 1.000 ms (10001 pts
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ilopt Spectrum	DWEI Analyzer - Swept SA		1 I Z44 IIVIH	z Accumulated	
RL	RF 50 Ω AC q 2.441000000 GF		:PULSE Trig: Free Run #Atten: 30 dB	ALIGNAUTO Avg Type: Log-Pwr	01:24:22 PM Mar 09, 202 TRACE 1 2 3 4 5 TYPE WWWWW DET P N N N N
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	1000000 GHz MHz	#VBW	3.0 MHz	Swe	Span 0 H ep 31.60 s (10001 pts

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		Dwell N	IVNT 2	-DH3 2	441MH	z One	Burst		
X/ RL	rum Analyzer - Swep RF 50 Ω req 2.441000	ac 1000 GHz	SE PNO: Fast ↔ Gain:Low	NSE:PULSE Trig Delay Trig: Video #Atten: 30	-500.0 μs	IGNAUTO Avg Type:	Log-Pwr	TF	L PM Mar 09, 2023 RACE 1 2 3 4 5 TYPE WWWWWW DET P N N N N
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center 2. Res BW	441000000 GH 1.0 MHz	Iz	#VB	W 3.0 MHz			Sweep	3.000 ms	Span 0 H: (10001 pts
ikr mode t 1 Δ2		× 1.637 ms	Y		CTION FUNC	TION WIDTH	-	JNCTION VALUE	
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7 8 9									
10 11									
3G				111		STATUS			
		Dwell N	/NT 2-[DH3 24	41MHz	Accum	ulated		
RL	rum Analyzer - Swep RF 50 Ω req 2.441000	AC	SE	NSE:PULSE	AL	IGNAUTO Avg Type:	Log-Pwr		5 PM Mar 09, 202 RACE 1 2 3 4 5
	100 2.44 1000		NO: Fast 🔸	Trig: Free #Atten: 30	Run dB	0 //	5		DET P N N N N
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es BW 1			#VB	W 3.0 MHz		~	Swee	ep 31.60 s	
3G						STATUS			



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		Dwell N	IVNT 2	-DH5 2	441MH	z One	Burst		
XI RL	rum Analyzer - Swept RF 50 Ω req 2.441000	ac 000 GHz	SE PNO: Fast Gain:Low	NSE:PULSE Trig Delay- Trig: Video Atten: 30 d	500.0 µs	IGNAUTO Avg Type:	Log-Pwr	TF.	PM Mar 09, 2023 ACE 1 2 3 4 5 IYPE WWWWWW DET P N N N N
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4 5 6 7									
8 9									
10 11									
SG		Dwell N\	/NIT 2_0	1H5 24	41MHz		hatel		
gilent Spect	rum Analyzer - Swept RF 50 Ω	SA		NSE:PULSE		IGNAUTO	ulated	10/54/01	PM Mar 09, 202
	req 2.441000	000 GHz	PNO: Fast ++ Gain:Low	. Trig: Free I Atten: 30 d	Run	Avg Type:	Log-Pwr	TR	ACE 1 2 3 4 5 TYPE WWWWWW DET P N N N N
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SG						I STATUS			

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		3-DH1 2441M	Hz One Burst	
igilent Spectrum Analyzer - Swept SA		SENSE:PULSE Trig Delay-500.0 µs -→ Trig: Video #Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr	01:26:53 PM Mar 09, 202 TRACE 1 2 3 4 5 TYPE WWWWW DET P N N N
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$\frac{1}{1} \Delta 2 \frac{1}{2} t (\Delta)$	386.0 μs (Δ)	-0.25 dB	INCTION WIDTH	UNCTION VALUE
2 F 1 t 3 4	499.1 µs -4	6.00 dBm		
5 6 7				
8 9 10				
G		3-DH1 2441MH		
gilent Spectrum Analyzer - Swept SA				
RL RF 50 Ω AC enter Freq 2.44100000		SENSE:PULSE Trig: Free Run #Atten: 30 dB	ALIGNAUTO Avg Type: Log-Pwr	01:27:28 PM Mar 09, 202 TRACE 1 2 3 4 5 TYPE WWWWW DET P N N N
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0.91 Ref 202.00 dBm 0.91 0 0 0 0 0 0 0 0 0 0 0 0 0	RL RF 50 Ω	Ω AC 000000 GHz PN0: Fast ←	Trig Delay-500.0 μs ▶→ Trig: Video		01:28:38 PM Mar 09, 202 TRACE 1 2 3 4 5 TYPE WWWWWW DET P N N N
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Company				<u></u>	
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enter 2.441000000 GHz es BW 1.0 MHz #VEW 3.0 MHz #VE					
and a set of the set					
es BW 1.0 MHz #VBW 3.0 MHz Sweep 3.000 ms (1001 BM 02 t (0) 3 F 1 t (0) 1535 ms (0) 9 F 1 t (0) 1535 ms (0) 1535 m		n			
			/BW 3.0 MHz	Sweep	Span 0 H 3.000 ms (10001 pts
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Dwell NVNT 3-DH3 2441MHz Accumulated	1				
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Ref Offset 1.5 dB Avg Type: Log-Pwr Trace 1:2 00 #Atten: 30 dB Trig: Free Run 00 #Atten: 40 dB Trig: Free Run		wept SA			
DedB/div Ref 20.00 dBm 00		00000 GHz PNO: Fast	▶→ Trig: Free Run		01:29:13 PM Mar 09, 202 TRACE 1 2 3 4 5 TYPE WWWWW DET P N N N N
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2. Maximum Average Conducted Output Power

Condition	Mode	Frequency (MHz)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	-1.24	<=20.97	Pass
NVNT	1-DH5	2441	2.43	<=20.97	Pass
NVNT	1-DH5	2480	1.55	<=20.97	Pass
NVNT	2-DH5	2402	-3.69	<=20.97	Pass
NVNT	2-DH5	2441	-0.31	<=20.97	Pass
NVNT	2-DH5	2480	-0.83	<=20.97	Pass
NVNT	3-DH5	2402	-3.76	<=20.97	Pass
NVNT	3-DH5	2441	-0.5	<=20.97	Pass
NVNT	3-DH5	2480	-0.94	<=20.97	Pass



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	trum Analyzer - Swept S						
RL	RF 50 Ω AC Freq 2.4800000	c	PNO: Fast ↔	ENSE:PULSE _ Trig: Free Run #Atten: 30 dB	ALIGNAUTO Avg Type: RMS Avg Hold: 1000/10	000	10:51:12 AM Mar 09, 20 TRACE 1 2 3 4 TYPE A WWW DET A N N N
a D (alia	Ref Offset 1.5 dB Ref 20.00 dBn		IT Gall.Low			Mkr1	2.479 957 GH 1.552 dB
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enter 2.	480000 GHz						Span 10.00 MI
	2.0 MHz		#VE	3W 6.0 MHz*	S	Sweep 1.	333 ms (10001 pi
Res BW			#VE	3W 6.0 MHz*	STATUS	Sweep 1.	333 ms (10001 pt
		Avera		8W 6.0 MHz* er NVNT 2-D	STATUS		333 ms (10001 pi
Res BW G ilent Spect	2.0 MHz trum Analyzer - Swept S RF 50 Ω AG	A C	ige Pow		DH5 2402MH		333 ms (10001 pt 12:44:41 PM Mar 09, 20
Res BW G gilent Spect	2.0 MHz trum Analyzer - Swept S	A C	ige Pow	er NVNT 2-D	100 status 0H5 2402MH	Iz	333 ms (10001 pr 12:44:41 PM Mar 09, 20 TRACE 1 2 3 4 TYPE A WWW DET A NN N1
Res BW gilent Spect RL enter F O dB/div	2.0 MHz trum Analyzer - Swept S RF 50 Ω AG	A 00 GHz	ige Pow s PN0: Fast ↔	er NVNT 2-E	Mostatus 0H5 2402MH Alignauto Avg Type: RMS	Iz	333 ms (10001 pt 12:44:41 PM Mar 09, 20 TRACE [1 2 3 4 TYPE [A WWW
Res BW	1 2.0 MHz trum Analyzer - Swept S RF 50 Ω AC Treq 2.4020000 Ref Offset 1.5 dB	A 00 GHz	ige Pow s PN0: Fast ↔	er NVNT 2-E	Mostatus 0H5 2402MH Alignauto Avg Type: RMS	Iz	12:44:41 PM Mar 09, 20 TRACE [1 2 3 4 TRACE [1 3 4 3 4 3 4 TRACE [1 3 4 3 4 3 4 3 4 4 TRACE [1 3 4 3 4 3 4 4 TRACE [1 3 4 3 4 4 4 TRACE [1 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
Res BW	1 2.0 MHz trum Analyzer - Swept S RF 50 Ω AC Treq 2.4020000 Ref Offset 1.5 dB	A 00 GHz	ige Pow s PN0: Fast ↔	er NVNT 2-E	Mostatus 0H5 2402MH Alignauto Avg Type: RMS	Iz	12:44:41 PM Mar 09, 20 TRACE [1 2 3 4 TRACE [1 3 4 3 4 3 4 TRACE [1 3 4 3 4 3 4 3 4 4 TRACE [1 3 4 3 4 3 4 4 TRACE [1 3 4 3 4 4 4 TRACE [1 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
Res BW is gilent Spect RL enter F 0 dB/div 0 0	1 2.0 MHz trum Analyzer - Swept S RF 50 Ω AC Treq 2.4020000 Ref Offset 1.5 dB	A 00 GHz	ige Pow s PN0: Fast ↔	er NVNT 2-E	Mostatus 0H5 2402MH Alignauto Avg Type: RMS	Iz	12:44:41 PM Mar 09, 20 TRACE [1 2 3 4 TRACE [1 3 4 3 4 3 4 TRACE [1 3 4 3 4 3 4 3 4 4 TRACE [1 3 4 3 4 3 4 4 TRACE [1 3 4 3 4 4 4 TRACE [1 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
Res BW (Int Spect RL enter F 0 dB/div 0 0 0.0	1 2.0 MHz trum Analyzer - Swept S RF 50 Ω AC Treq 2.4020000 Ref Offset 1.5 dB	A 00 GHz	ige Pow s PN0: Fast ↔	er NVNT 2-E	Mostatus 0H5 2402MH Alignauto Avg Type: RMS	Iz	12:44:41 PM Mar 09, 20 TRACE [1 2 3 4 TRACE [1 3 4 3 4 3 4 TRACE [1 3 4 3 4 3 4 3 4 4 TRACE [1 3 4 3 4 3 4 4 TRACE [1 3 4 3 4 4 4 TRACE [1 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
Res BW (International Content of the International Content of the Internat	1 2.0 MHz trum Analyzer - Swept S RF 50 Ω AC Treq 2.4020000 Ref Offset 1.5 dB	A 00 GHz	ige Pow s PN0: Fast ↔	er NVNT 2-E	Mostatus 0H5 2402MH Alignauto Avg Type: RMS	Iz	12:44:41 PM Mar 09, 20 TRACE [1 2 3 4 TRACE [1 3 3 4
Res BW G RL RL OdB/div O G O O G O O G O O O O O O O O O O O	1 2.0 MHz trum Analyzer - Swept S RF 50 Ω AC Treq 2.4020000 Ref Offset 1.5 dB	A 00 GHz	ige Pow s PN0: Fast ↔	er NVNT 2-E	Mostatus 0H5 2402MH Alignauto Avg Type: RMS	Iz	12:44:41 PM Mar 09, 20 TRACE [1 2 3 4 TRACE [1 3 3 4
Res BW G G G G G G G G G G G G G G G G G G G	1 2.0 MHz trum Analyzer - Swept S RF 50 Ω AC Treq 2.4020000 Ref Offset 1.5 dB	A 00 GHz	ige Pow s PN0: Fast ↔	er NVNT 2-E	Mostatus 0H5 2402MH Alignauto Avg Type: RMS	Iz	12:44:41 PM Mar 09, 20 TRACE [1 2 3 4 TRACE [1 3 3 4
Res BW G G G G G G G G G G G G G G G G G G G	1 2.0 MHz trum Analyzer - Swept S RF 50 Ω AC Treq 2.4020000 Ref Offset 1.5 dB	A 00 GHz	ige Pow s PN0: Fast ↔	er NVNT 2-E	Mostatus 0H5 2402MH Alignauto Avg Type: RMS	Iz	12:44:41 PM Mar 09, 20 TRACE [1 2 3 4 TRACE [1 3 3 4
Res BW sg gilent Spect	1 2.0 MHz trum Analyzer - Swept S RF 50 Ω AC Treq 2.4020000 Ref Offset 1.5 dB	A 00 GHz	ige Pow s PN0: Fast ↔	er NVNT 2-E	Mostatus 0H5 2402MH Alignauto Avg Type: RMS	Iz	12:44:41 PM Mar 09, 20 TRACE [1 2 3 4 TRACE [1 3 3 4
Res BW ssc state RL enter F 0 dB/div 0 g 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 2.0 MHz trum Analyzer - Swept S RF 50 Ω AC Treq 2.4020000 Ref Offset 1.5 dB	A 00 GHz	ige Pow s PN0: Fast ↔	er NVNT 2-E	Mostatus 0H5 2402MH Alignauto Avg Type: RMS	Iz	12:44:41 PM Mar 09, 20 TRACE [1 2 3 4 TRACE [1 3 3 4
Res BW g	1 2.0 MHz trum Analyzer - Swept S RF 50 Ω AC Treq 2.4020000 Ref Offset 1.5 dB	A 00 GHz	ige Pow s PN0: Fast ↔	er NVNT 2-E	Mostatus 0H5 2402MH Alignauto Avg Type: RMS	Iz	12:44:41 PM Mar 09, 20 TRACE [1 2 3 4 TRACE [1 3 3 4
Res BW g RL enter F 0.0 G	T 2.0 MHz Trum Analyzer - Swept S RF 50 Ω AC Treq 2.4020000 Ref Offset 1.5 dB Ref 20.00 dBn	A 00 GHz	ige Pow s PN0: Fast ↔	er NVNT 2-E	Mostatus 0H5 2402MH Alignauto Avg Type: RMS	Iz	333 ms (10001 pr 12:44:41 PM Mar 09, 20 TRACE 12:34 TYPE 12:34
Res BW g	1 2.0 MHz trum Analyzer - Swept S RF 50 Ω AC Treq 2.4020000 Ref Offset 1.5 dB	A 00 GHz	ge Pow	er NVNT 2-E	ALIGNAUTO AVG Type: RMS AvgIHold: 1000/10	Iz 000 Mkr1	12:44:41 PM Mar 09, 20 TRACE [1 2 3 4 TRACE [1 3 3 4



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gilent <u>Spect</u>	rum Analyzer - Swept S	SA						
RL	RF 50Ω A	.c	SI SI	ENSE:PULSE	ALIGNAUTO) PM Mar 09, 202
enter F	req 2.4410000		PNO: Fast 🔸 IFGain:Low	. Trig: Free Run #Atten: 30 dB	Avg Type: I Avg Hold: 1		TF	TYPE A WARMA DET A N N N N
0 dB/div	Ref Offset 1.5 dE Ref 20.00 dBr					М	kr1 2.440 -0.	893 GH 314 dBr
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	441000 GHz 2.0 MHz		#VF	SW 6.0 MH7*		Sween		
Res BW	441000 GHz 2.0 MHz		#VE	8W 6.0 MHz*		Sweep	Span 9 1.333 ms	
		Avera			-	•		
Res BW	2.0 MHz	SA		er NVNT 2-	-	•		
Res BW sg gilent Spectr	2.0 MHz rum Analyzer - Swept S RF 50 Ω A	SA IC	ge Pow		DH5 2480	MHz	1.333 ms 12:49:38	(10001 pt
Res BW ig gilent Spectr R L	2.0 MHz	64 IC 100 GHz	ge Pow	er NVNT 2-	DH5 2480	MHz RMS 000/1000	1.333 ms 12:49:38 Tr	(10001 pt 3 PM Mar 09, 202 RACE 1 2 3 4 5 TYPE A WWWM DET A N N N
Res BW gilent Spectr RL enter F 0 dB/div	2.0 MHz rum Analyzer - Swept S RF 50 Ω A	5A CC DOO GHZ B	ge Pow	er NVNT 2-	DH5 2480	MHz RMS 000/1000	2 1.333 ms 12:49:38 T kr1 2.479	(10001 pt 3PM Mar 09, 202 ACCE 12 3 4 5 TYPE A MAMMA DET A N.N.N. 906 GH
Res BW	2.0 MHz rum Analyzer - Swept S RF 50 Ω A Freq 2.4800000 Ref Offset 1.5 dE	5A CC DOO GHZ B	ge Pow	er NVNT 2-	DH5 2480	MHz RMS 000/1000	2 1.333 ms 12:49:38 T kr1 2.479	(10001 pt 3PM Mar 09, 202 ACCE 12 3 4 5 TYPE A MAMMA DET A N.N.N. 906 GH
Res BW	2.0 MHz rum Analyzer - Swept S RF 50 Ω A Freq 2.4800000 Ref Offset 1.5 dE	5A CC DOO GHZ B	ge Pow	er NVNT 2-	DH5 2480	MHz RMS 000/1000	2 1.333 ms 12:49:38 T kr1 2.479	(10001 pt 3PM Mar 09, 202 ACCE 12 3 4 5 TYPE A MAMMA DET A N.N.N. 906 GH
Res BW sg gilent Spect RL enter F 0 dB/div 0 dB/div 0 0 0 0	2.0 MHz rum Analyzer - Swept S RF 50 Ω A Freq 2.4800000 Ref Offset 1.5 dE	5A CC DOO GHZ B	ge Pow	er NVNT 2-	DH5 2480	MHz RMS 000/1000	2 1.333 ms 12:49:38 T kr1 2.479	(10001 pt 3PM Mar 09, 202 ACCE 12 3 4 5 TYPE A MAMMA DET A N.N.N. 906 GH
Res BW G G G G G G G G G G G G G G G G G G G	2.0 MHz rum Analyzer - Swept S RF 50 Ω A Freq 2.4800000 Ref Offset 1.5 dE	5A CC DOO GHZ B	ge Pow	er NVNT 2-	DH5 2480	MHz RMS 000/1000	2 1.333 ms 12:49:38 T kr1 2.479	(10001 pt 3PM Mar 09, 202 ACCE 12 3 4 5 TYPE A MAMMA DET A N.N.N. 906 GH
Res BW iglent Spect RL RL O dB/div O O O O O O O O O O O O O	2.0 MHz rum Analyzer - Swept S RF 50 Ω A Freq 2.4800000 Ref Offset 1.5 dE	5A CC DOO GHZ B	ge Pow	er NVNT 2-	DH5 2480	MHz RMS 000/1000	2 1.333 ms 12:49:38 T kr1 2.479	(10001 pt 3PM Mar 09, 202 ACCE 12 3 4 5 TYPE A MAMMA DET A N.N.N. 906 GH
Res BW glient Spect RL RL C dB/div	2.0 MHz rum Analyzer - Swept S RF 50 Ω A Freq 2.4800000 Ref Offset 1.5 dE	5A CC DOO GHZ B	ge Pow	er NVNT 2-	DH5 2480	MHz RMS 000/1000	2 1.333 ms 12:49:38 T kr1 2.479	(10001 pt 3PM Mar 09, 202 ACCE 12 3 4 5 TYPE A MAMMA DET A N.N.N. 906 GH
Res BW is it it it it it it it it it	2.0 MHz rum Analyzer - Swept S RF 50 Ω A Freq 2.4800000 Ref Offset 1.5 dE	5A CC DOO GHZ B	ge Pow	er NVNT 2-	DH5 2480	MHz RMS 000/1000	2 1.333 ms 12:49:38 T kr1 2.479	(10001 pt 3PM Mar 09, 202 ACCE 12 3 4 5 TYPE A MAMMA DET A N.N.N. 906 GH
Res BW is is is is is is is is is i	2.0 MHz rum Analyzer - Swept S RF 50 Ω A Freq 2.4800000 Ref Offset 1.5 dE	5A CC DOO GHZ B	ge Pow	er NVNT 2-	DH5 2480	MHz RMS 000/1000	2 1.333 ms 12:49:38 T kr1 2.479	(10001 pt 3PM Mar 09, 202 ACC 12 3 4 5 TYPE A MMMM DET A N N N 906 GH
Res BW sg gilent Spectr	2.0 MHz rum Analyzer - Swept S RF 50 Ω A Freq 2.4800000 Ref Offset 1.5 dE	5A CC DOO GHZ B	ge Pow	er NVNT 2-	DH5 2480	MHz RMS 000/1000	2 1.333 ms 12:49:38 T kr1 2.479	(10001 pt 3PM Mar 09, 202 ACC 12 3 4 5 TYPE A MMMM DET A N N N 906 GH
Res BW glent Spect RL enter F 0 dB/div 0 0	2.0 MHz rum Analyzer - Swept S RF 50 Ω A Freq 2.4800000 Ref Offset 1.5 dE	5A CC DOO GHZ B	ge Pow	er NVNT 2-	DH5 2480	MHz RMS 000/1000	2 1.333 ms 12:49:38 T kr1 2.479	(10001 pt 3PM Mar 09, 202 ACCE 12 3 4 5 TYPE A MAMMA DET A N.N.N. 906 GH
Res BW glent Spect RL enter F 0 dB/div 0 0 0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	2.0 MHz rum Analyzer - Swept S RF 50 Ω A Freq 2.4800000 Ref Offset 1.5 dE	5A CC DOO GHZ B	ge Pow	er NVNT 2-	DH5 2480	MHz RMS 000/1000	1.333 ms	(10001 pt 3PM Mar 09, 202 ACE [1 2 3 4 5 4 2 3 4 5 2
Res BW glient Spectr RL enter F 0 dB/div 0 0 0	2.0 MHz rum Analyzer - Swept S RF 50 Ω A Freq 2.4800000 Ref Offset 1.5 dE	5A CC DOO GHZ B	ge Pow	er NVNT 2-	DH5 2480	MHz RMS D00/1000 M	1.333 ms	200 MHz 00, 202 RACE 1 2 3 4 5 TYPE A WWWW 906 GH 826 dBr

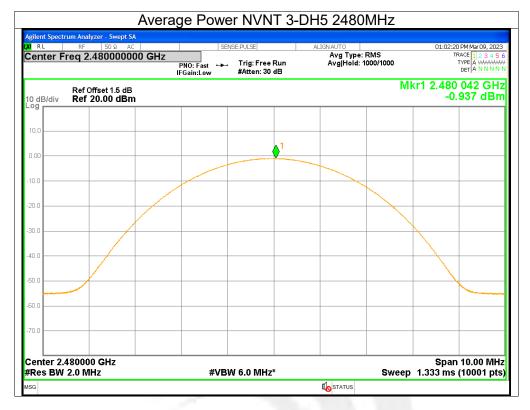


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1		Avera	geren					
RL	rum Analyzer - Swept S RF 50 Ω A Freq 2.4020000	.C	PNO: Fast	ENSE:PULSE Trig: Free Run #Atten: 30 dB	ALIGNAUTO Avg Type: R Avg Hold: 10	MS 00/1000	т	7 PM Mar 09, 2023 RACE 1 2 3 4 5 TYPE A WWWW DET A N N N N
0 dB/div	Ref Offset 1.5 dE Ref 20.00 dBr					М	kr1 2.401 -3.	891 GH 764 dBn
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Res BW	402000 GHz 2.0 MHz	Avera		3W 6.0 MHz*			Span 9 1.333 ms	
Res BW sg gilent Spectr		SA Ic	ge Pow	er NVNT 3-I	DH5 2441N ALIGNAUTO Avg Type: R	лнz мs	01:00:37	(10001 pts + PM Mar 09, 202 RACE 1 2 3 4 5
Res BW sg gilent Spectr	2.0 MHz rum Analyzer - Swept 5 RF 50 Ω A Freq 2.4410000	5A c 100 GHz	ge Pow	er NVNT 3-I	DH5 24411	MHZ MS 00/1000	01:00:3 01:00:3 kr1 2.440	(10001 pt 10001 pt 10000
Res BW gilent Spect RL ienter F 0 dB/div	2.0 MHz rum Analyzer - Swept S RF 50 Ω A	5A C 100 GHz 3	ge Pow	er NVNT 3-I	DH5 2441N ALIGNAUTO Avg Type: R	MHZ MS 00/1000	01:00:3 01:00:3 kr1 2.440	(10001 pt 10001 pt 10000
Res BW	2.0 MHz rum Analyzer - Swept S RF 50 Ω A Freq 2.4410000 Ref Offset 1.5 dE	5A C 100 GHz 3	ge Pow	er NVNT 3-I	DH5 2441N ALIGNAUTO Avg Type: R	MHZ MS 00/1000	01:00:3 01:00:3 kr1 2.440	(10001 pt 10001 pt 10000
Res BW gilent Spect RL RL OdB/div	2.0 MHz rum Analyzer - Swept S RF 50 Ω A Freq 2.4410000 Ref Offset 1.5 dE	5A C 100 GHz 3	ge Pow	er NVNT 3-I	DH5 2441N ALIGNAUTO Avg Type: R	MHZ MS 00/1000	01:00:3 01:00:3 kr1 2.440	(10001 pt 10001 pt 10000
Res BW gilent Spect RL enter F 0 dB/div 9 0 0.00	2.0 MHz rum Analyzer - Swept S RF 50 Ω A Freq 2.4410000 Ref Offset 1.5 dE	5A C 100 GHz 3	ge Pow	er NVNT 3-I	DH5 2441N ALIGNAUTO Avg Type: R	MHZ MS 00/1000	01:00:3 01:00:3 kr1 2.440	(10001 pt 10001 pt 10000
Res BW glient Spect RL RL O dB/div O O O O O O O O O O O O O O O O O O O	2.0 MHz rum Analyzer - Swept S RF 50 Ω A Freq 2.4410000 Ref Offset 1.5 dE	5A C 100 GHz 3	ge Pow	er NVNT 3-I	DH5 2441N ALIGNAUTO Avg Type: R	MHZ MS 00/1000	01:00:3 01:00:3 kr1 2.440	(10001 pt 10001 pt 10000
Res BW glient Spect RL RL CodB/div	2.0 MHz rum Analyzer - Swept S RF 50 Ω A Freq 2.4410000 Ref Offset 1.5 dE	5A C 100 GHz 3	ge Pow	er NVNT 3-I	DH5 2441N ALIGNAUTO Avg Type: R	MHZ MS 00/1000	01:00:3 01:00:3 kr1 2.440	(10001 pt: 10001 pt:
Res BW sg gilent Spectr	2.0 MHz rum Analyzer - Swept S RF 50 Ω A Freq 2.4410000 Ref Offset 1.5 dE	5A C 100 GHz 3	ge Pow	er NVNT 3-I	DH5 2441N ALIGNAUTO Avg Type: R	MHZ MS 00/1000	01:00:3 01:00:3 kr1 2.440	4 PM Mar 09, 202 RACE 1 2 3 4 5 TYPE A WWWW DET A N N N N
Res BW gilent Spect RL center F 0 dB/div 0 g 0 g 0 dB/div 0 g <	2.0 MHz rum Analyzer - Swept S RF 50 Ω A Freq 2.4410000 Ref Offset 1.5 dE	5A C 100 GHz 3	ge Pow	er NVNT 3-I	DH5 2441N ALIGNAUTO Avg Type: R	MHZ MS 00/1000	01:00:3 01:00:3 kr1 2.440	(10001 pt: 10001 pt:
Res BW glent Spect RL Reter Genter Ge	2.0 MHz rum Analyzer - Swept S RF 50 Ω A Freq 2.4410000 Ref Offset 1.5 dE	5A C 100 GHz 3	ge Pow	er NVNT 3-I	DH5 2441N ALIGNAUTO Avg Type: R	MHZ MS 00/1000	01:00:3 01:00:3 kr1 2.440	(10001 pt: 10001 pt:
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Res BW glent Spect RL enter F 0 dB/div 0 0 0 0.0 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	rum Analyzer - Swept S RF 50 A Greq 2.4410000 Ref Offset 1.5 dE Ref 20.00 dBr	5A C 100 GHz 3	ge Pow	er NVNT 3-I	DH5 2441N ALIGNAUTO Avg Type: R	MHZ MS 00/1000	01:00:37 ms	(10001 pt: PM Mar 09, 202 SACE 12 3 4 5 TYPE A NNN Det A NNN 975 GH 499 dBr
Res BW 36 glient Spect RL center F 0 dB/div 9 10.0 30.	2.0 MHz rum Analyzer - Swept S RF 50 Ω A Freq 2.4410000 Ref Offset 1.5 dE	5A C 100 GHz 3	ge Pow	er NVNT 3-I	DH5 2441N ALIGNAUTO Avg Type: R	MHz MS 00/1000 M	01:00:37 ms	(10001 pt: PM Mar 09, 202 Acce 2.3.4.5 TYPE A PT A N N N 975 GH 499 dBr



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Shenzhen STS Test Services Co., Ltd.

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3. Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	0.07	<=20.97	Pass
NVNT	1-DH5	2441	3.63	<=20.97	Pass
NVNT	1-DH5	2480	2.93	<=20.97	Pass
NVNT	2-DH5	2402	0.1	<=20.97	Pass
NVNT	2-DH5	2441	3.38	<=20.97	Pass
NVNT	2-DH5	2480	2.79	<=20.97	Pass
NVNT	3-DH5	2402	0.04	<=20.97	Pass
NVNT	3-DH5	2441	3.32	<=20.97	Pass
NVNT	3-DH5	2480	2.67	<=20.97	Pass



Shenzhen STS Test Services Co., Ltd.



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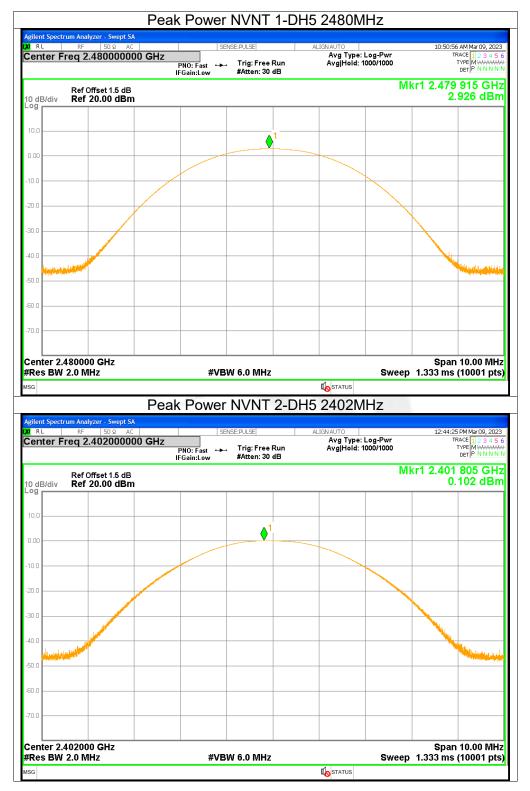
Report No.: STS2301115W07

	Peak	Power	Test Grap NVNT 1	-DH5 2402M	Hz		
rilent Spectrum Analyzer - Swept SA RL RF 50 Ω AC		00		ALIGN AUTO		10,42-1	LAMM-200 CCC
enter Freq 2.40200000	0 GHz		NSE:PULSE	Avg Type:		Т	0 AM Mar 09, 202 RACE 1 2 3 4 5 TYPE MWWWW
		NO: Fast 🔸	. Trig: Free Run #Atten: 30 dB	Avg Hold: 1	000/1000		DET P N N N N
Ref Offset 1.5 dB dB/div Ref 20.00 dBm					М	kr1 2.401 0.	933 GH .068 dBr
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enter 2.402000 GHz Res BW 2.0 MHz		#VB	W 6.0 MHz		O	span 1.333 ms	10.00 MH (10001 pt)
					Sweep	1.000 1110	(10001 bt
G				I STATUS	•		(10001 pt.
G	Peak	Power	NVNT 1	•DH5 2441M	•		(10001 pt
jlent Spectrum Analyzer - Swept SA				-DH5 2441M	•		
jilent Spectrum Analyzer - Swept SA RL RF 50Ω AC	0 GHz	SE	INSE:PULSE	-DH5 2441M ALIGN AUTO Avg Type:	HZ	10:48:5 Т	7 AM Mar 09, 202 RACE 1 2 3 4 5 TYPE M WWWWW
ilent Spectrum Analyzer - Swept SA R L RF 50 Ω AC	IO GHz		INSE:PULSE	-DH5 2441M ALIGN AUTO Avg Type:	HZ Log-Pwr 000/1000	<u>10:48:5</u> Т	7 AM Mar 09, 202 RACE 1 2 3 4 5 TYPE M WWW DET P N N N
Ilent Spectrum Analyzer - Swept SA RL RF 50 Ω AC enter Freq 2.441000000 Ref Offset 1.5 dB Ref 20.00 dBm	IO GHz Pi IFG	S⊟ NO: Fast ↔	NSE:PULSE	-DH5 2441M ALIGN AUTO Avg Type:	HZ Log-Pwr 000/1000	^{10:48:5′} ⊺ kr1 2.440	7 AM Mar 09, 202 RACE 1 2 3 4 5 TYPE M WWWW DET P N N N 9 941 GH
Ilent Spectrum Analyzer - Swept SA RL RF 50 Ω AC enter Freq 2.441000000 Ref Offset 1.5 dB Ref 20.00 dBm	IO GHz Pi IFG	S⊟ NO: Fast ↔	NSE:PULSE	-DH5 2441M ALIGN AUTO Avg Type:	HZ Log-Pwr 000/1000	^{10:48:5′} ⊺ kr1 2.440	7 AM Mar 09, 202 RACE 1 2 3 4 5 TYPE M WWWW DET P N N N 9 941 GH
Ilent Spectrum Analyzer - Swept 5A RL RF 50 Ω AC enter Freq 2.441000000 Ref Offset 1.5 dB g	IO GHz Pi IFG	S⊟ NO: Fast ↔	NSE:PULSE	-DH5 2441M ALIGN AUTO Avg Type:	HZ Log-Pwr 000/1000	^{10:48:5′} ⊺ kr1 2.440	7 AM Mar 09, 202 RACE 1 2 3 4 5 TYPE M WWWW DET P N N N 9 941 GH
Ilent Spectrum Analyzer - Swept SA RL RF 50 Ω AC enter Freq 2.44100000 Ref Offset 1.6 dB 0 dB/div Ref 20.00 dBm 0 0	IO GHz Pi IFG	S⊟ NO: Fast ↔	NSE:PULSE	-DH5 2441M ALIGN AUTO Avg Type:	HZ Log-Pwr 000/1000	^{10:48:5′} ⊺ kr1 2.440	7 AM Mar 09, 202 RACE 1 2 3 4 5 TYPE M WWWW DET P N N N 9 941 GH
Ilent Spectrum Analyzer - Swept SA RL RF SOΩ AC enter Freq 2.44100000 Ref Offset 1.5 dB dB/div Ref 20.00 dBm	IO GHz Pi IFG	S⊟ NO: Fast ↔	NSE:PULSE	-DH5 2441M ALIGN AUTO Avg Type:	HZ Log-Pwr 000/1000	^{10:48:5′} ⊺ kr1 2.440	7 AMMar 09, 202 RACE 12 3 4 5 TYPE MWWWW DET P N N N 941 GH
Sectrum Analyzer - Swept SA RL RF 50.0 AC enter Freq 2.44100000 AC AC B B/div Ref Offset 1.5 dB AC 0 dB/div Ref 20.00 dBm AC 0.0 AC AC	IO GHz Pi IFG	S⊟ NO: Fast ↔	NSE:PULSE	-DH5 2441M ALIGN AUTO Avg Type:	HZ Log-Pwr 000/1000	^{10:48:5′} ⊺ kr1 2.440	7 AM Mar 09, 202 RACE 1 2 3 4 5 TYPE M WWWW DET P N N N 9 941 GH
Ilent Spectrum Analyzer - Swept SA RL RF 50 Q AC enter Freq 2.44100000 AC AC Ref Offset 1.5 dB B/div Ref 20.00 dBm 9 0.0 0.0 0.0 0.0 0.0 0.0 0.0	IO GHz Pi IFG	S⊟ NO: Fast ↔	NSE:PULSE	-DH5 2441M ALIGN AUTO Avg Type:	HZ Log-Pwr 000/1000	^{10:48:5′} ⊺ kr1 2.440	7 AMMar 09, 202 RACE 12 3 4 5 TYPE MWWWW DET P N N N 941 GH
ilent Spectrum Analyzer - Swept SA RL RF 50 Q AC enter Freq 2.441000000 Ref Offset 1.5 dB 0 dB/div Ref 20.00 dBm 0	IO GHz Pi IFG	S⊟ NO: Fast ↔	NSE:PULSE	-DH5 2441M ALIGN AUTO Avg Type:	HZ Log-Pwr 000/1000	^{10:48:5′} ⊺ kr1 2.440	7 AMMar 09, 202 RACE 12 3 4 5 TYPE MWWWW DET P N N N 941 GH
Sepectrum Analyzer - Swept SA RL RF 50 ∞ AC enter Freq 2.441000000 Ref Offset 1.5 dB D dB/div Ref 20.00 dBm 00 0.0	IO GHz Pi IFG	S⊟ NO: Fast ↔	NSE:PULSE	-DH5 2441M ALIGN AUTO Avg Type:	HZ Log-Pwr 000/1000	^{10:48:5′} ⊺ kr1 2.440	7 AMMar 09, 202 RACE 12 3 4 5 TYPE MWWWW DET P N N N 941 GH
RL RF 50 Ω AC enter Freq 2.44100000 Ref Offset 1.5 dB B GB/div Ref 20.00 dBm 0 dB/div Ref 20.00 dBm 0 0 0 0 0 0.0 0.0 0<	IO GHz Pi IFG	S⊟ NO: Fast ↔	NSE:PULSE	-DH5 2441M ALIGN AUTO Avg Type:	HZ Log-Pwr 000/1000	^{10:48:5′} ⊺ kr1 2.440	7 AM Mar 09, 202 RACE 1 2 3 4 5 TYPE MWWW DET P N N N
enter Freq 2.44100000 Ref Offset 1.5 dB	IO GHz Pi IFG	S⊟ NO: Fast ↔	NSE:PULSE	-DH5 2441M ALIGN AUTO Avg Type:	HZ Log-Pwr 000/1000	^{10:48:5′} ⊺ kr1 2.440	7 AMMar 09, 202 RACE 12 3 4 5 TYPE MWWWW DET P N N N 941 GH
Rient Spectrum Analyzer - Swept SA RL RF 50 Ω AC enter Freq 2.44100000 Ref Offset 1.5 dB B G 0 dB/div Ref 20.00 dBm G G 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	IO GHz Pi IFG	S⊟ NO: Fast ↔	NSE:PULSE	-DH5 2441M ALIGN AUTO Avg Type:	HZ Log-Pwr 000/1000	^{10:48:5′} ⊺ kr1 2.440	7 AM Mar 09, 202 RACE 1 2 3 4 5 TYPE M WWWWW DET P N N N N 941 GH 625 dBr
RL RF 50 Ω AC enter Freq 2.44100000 AC AC AC 0 dB/div Ref Offset 1.5 dB BC AC AC 0 dB/div Ref 20.00 dBm AC AC AC AC 0 dB/div Ref 20.00 dBm AC	IO GHz Pi IFG	S⊟ NO: Fast ↔	NSE:PULSE	-DH5 2441M ALIGN AUTO Avg Type:	HZ Log-Pwr 000/1000	^{10:48:5′} ⊺ kr1 2.440	7 AM Mar 09, 202 RACE 1 2 3 4 5 TYPE M WWWWW DET P N N N N 941 GH 625 dBr
Ilent Spectrum Analyzer - Swept SA RL RF 50.0 AC Ref Offset 1.5 dB OdB/div Ref Offset 1.5 dB 0 0.0	IO GHz Pi IFG	S⊟ NO: Fast ↔	NSE:PULSE	-DH5 2441M ALIGN AUTO Avg Type:	HZ Log-Pwr 000/1000	^{10:48:5′} ⊺ kr1 2.440	7 AM Mar 09, 202 RACE 1 2 3 4 5 TYPE M WWWWW DET P N N N N 941 GH 625 dBr
RL RF 50 Q AC enter Freq 2.441000000 Ref Offset 1.5 dB Ref 20.00 dBm Ref 20.00 dBm 0 dB/div Ref 20.00 dBm Ref 20.00 dBm Ref 20.00 dBm Ref 20.00 dBm 0.0 0	IO GHz Pi IFG	S⊟ NO: Fast ↔	NSE:PULSE	-DH5 2441M ALIGN AUTO Avg Type:	HZ Log-Pwr 000/1000	^{10:48:5′} ⊺ kr1 2.440	7 AM Mar 09, 202 RACE 1 2 3 4 5 TYPE M WWWW DET P N N N N 941 GH 625 dBr
Ient Spectrum Analyzer - Swept SA RL RF 50 Q AC enter Freq 2.441000000 Ref Offset 1.5 dB dB/div Ref 20.00 dBm 9 00 00 00 00 00 00 00 00 00	IO GHz Pi IFG	S⊟ NO: Fast ↔	NSE:PULSE	-DH5 2441M ALIGN AUTO Avg Type:	HZ Log-Pwr 000/1000	10:48:5 T kr1 2.440 3.	7 AM Mar 09, 202 RACE 1 2 3 4 5 TYPE IM WWWWW DET /P NNNN 9 941 GH 625 dBr
Ilent Spectrum Analyzer - Swept SA RL RF 50.0 AC Ref Offset 1.5 dB OdB/div Ref Offset 1.5 dB 0 0.0	IO GHz Pi IFG	VO: Fast ->-	NSE:PULSE	-DH5 2441M ALIGN AUTO Avg Type:	Нz	10:48:5 T kr1 2.440 3.	7 AM Mar 09, 202 RACE 1 2 3 4 5 TYPE IM WARKAN 0 941 GH 625 dBr

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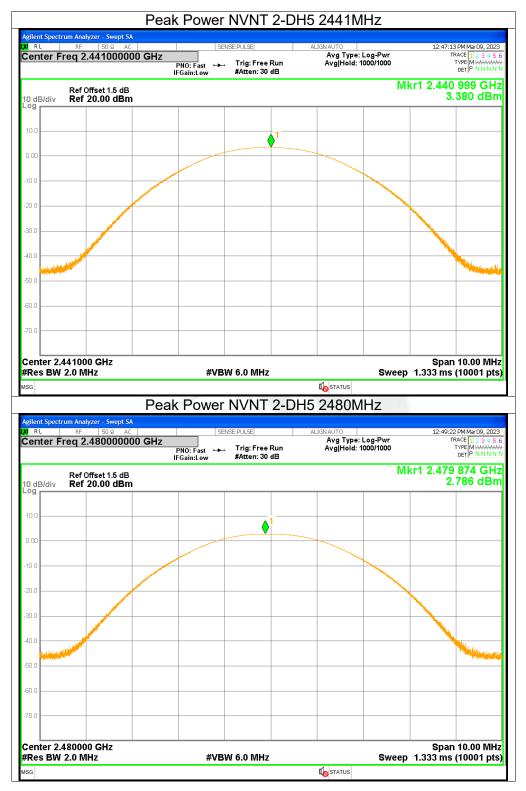
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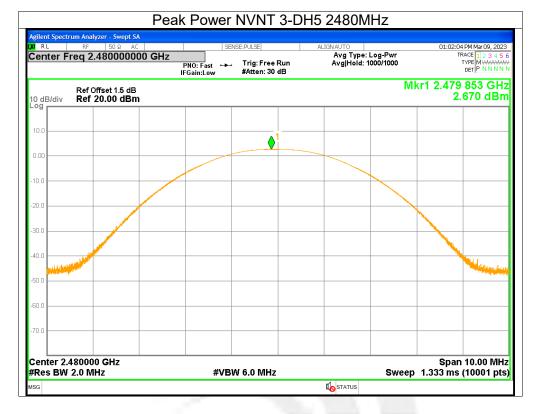


Peak Power NVNT 3-DH5 2402MHz



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4. -20dB Bandwidth

Condition	Mode	Frequency (MHz)	-20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	0.8512	Pass
NVNT	1-DH5	2441	0.852	Pass
NVNT	1-DH5	2480	0.859	Pass
NVNT	2-DH5	2402	1.2672	Pass
NVNT	2-DH5	2441	1.2758	Pass
NVNT	2-DH5	2480	1.2658	Pass
NVNT	3-DH5	2402	1.2654	Pass
NVNT	3-DH5	2441	1.2775	Pass
NVNT	3-DH5	2480	1.2762	Pass

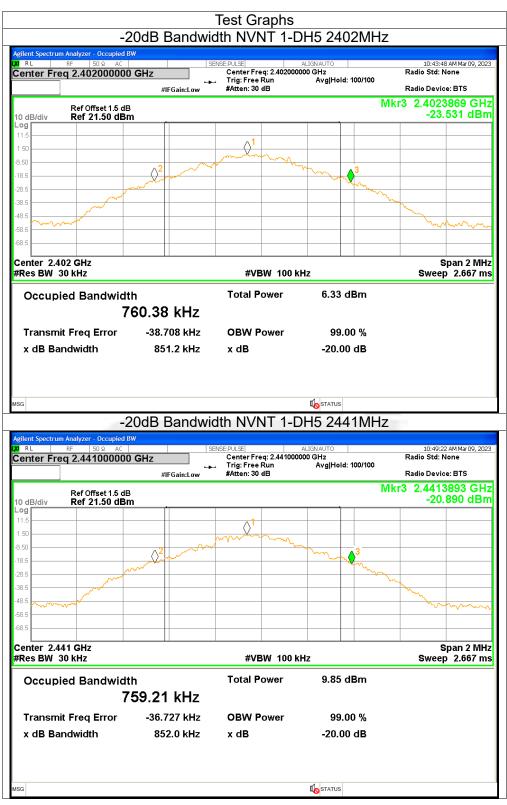


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-20dB Bandwidth NVNT 1-DH5 2480MHz Occupied B RI 10:51:21 AM Mar 09, 2023 Radio Std: None EPOLSE | ALIGNAUT Center Freq: 2.480000000 GHz Trig: Free Run Avg #Atten: 30 dB Center Freq 2.480000000 GHz Avg|Hold: 100/100 Radio Device: BTS #IFGain:Low Mkr3 2.4803919 GHz Ref Offset 1.5 dB Ref 21.50 dBm -21.693 dBm 10 dB/div og. .5 .50 18 / 28.5 38. 48. Center 2.48 GHz Span 2 MHz #Res BW 30 kHz #VBW 100 kHz Sweep 2.667 ms **Total Power** 9.27 dBm **Occupied Bandwidth** 757.18 kHz **Transmit Freq Error** -37.563 kHz **OBW Power** 99.00 % x dB Bandwidth 859.0 kHz x dB -20.00 dB **I**status -20dB Bandwidth NVNT 2-DH5 2402MHz 12:44:50 PM Mar 09, 2023 Radio Std: None Center Freq: 2.402000000 GHz Trig: Free Run Avg #Atten: 30 dB Center Freq 2.402000000 GHz Avg|Hold: 100/100 Radio Device: BTS #IFGain:Low Mkr3 2.4025936 GHz Ref Offset 1.5 dB Ref 21.50 dBm -23.102 dBm 0 dB/div og ⇔<mark>1</mark> .50 .50 18 / \Diamond 88 48. Center 2.402 GHz Span 2 MHz #Res BW 30 kHz #VBW 100 kHz Sweep 2.667 ms **Total Power** 4.94 dBm **Occupied Bandwidth** 1.1665 MHz -40.023 kHz **Transmit Freq Error OBW Power** 99.00 % x dB Bandwidth 1.267 MHz x dB -20.00 dB **I**STATUS

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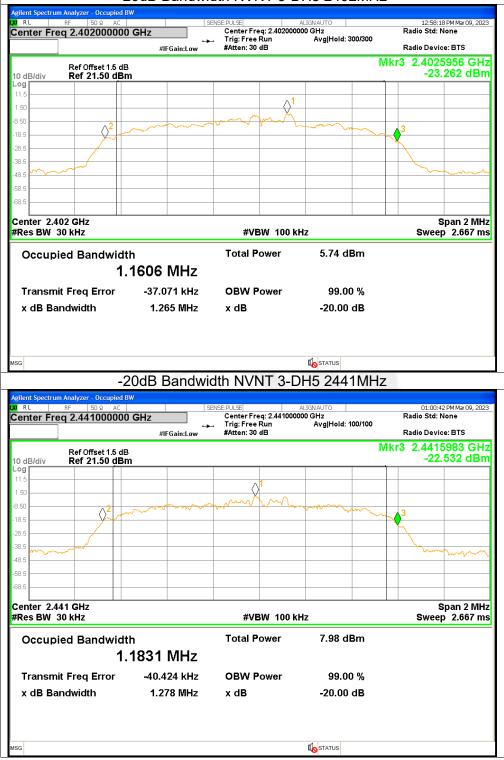
-20dB Bandwidth NVNT 2-DH5 2441MHz Occupied B RI 12:47:38 PM Mar 09, 2023 Radio Std: None E:POLSE ALIGNAUTO Center Freq: 2.441000000 GHz Trig: Free Run Avg|Ha #Atten: 30 dB Center Freq 2.441000000 GHz Avg|Hold: 100/100 Radio Device: BTS #IFGain:Low Mkr3 2.4415999 GHz Ref Offset 1.5 dB Ref 21.50 dBm -19.502 dBm 10 dB/div og. .5 .50 $\langle \rangle^2$ 18 / 28 48. Center 2.441 GHz Span 2 MHz #Res BW 30 kHz #VBW 100 kHz Sweep 2.667 ms **Total Power** 8.52 dBm **Occupied Bandwidth** 1.1621 MHz -38.001 kHz **Transmit Freq Error OBW Power** 99.00 % x dB Bandwidth 1.276 MHz x dB -20.00 dB **I**status -20dB Bandwidth NVNT 2-DH5 2480MHz 12:49:46 PM Mar 09, 2023 Radio Std: None Center Freq: 2.480000000 GHz Trig: Free Run Avg #Atten: 30 dB Center Freq 2.480000000 GHz Avg|Hold: 100/100 -----Radio Device: BTS #IFGain:Low Mkr3 2.4805926 GHz Ref Offset 1.5 dB Ref 21.50 dBm -19.918 dBm 0 dB/div og \Diamond .50 .50 \Diamond 18 / 48. Center 2.48 GHz Span 2 MHz #VBW 100 kHz #Res BW 30 kHz Sweep 2.667 ms **Total Power** 7.57 dBm **Occupied Bandwidth** 1.1766 MHz -40.291 kHz **Transmit Freq Error OBW Power** 99.00 % x dB Bandwidth 1.266 MHz x dB -20.00 dB **I**STATUS

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-20dB Bandwidth NVNT 3-DH5 2402MHz



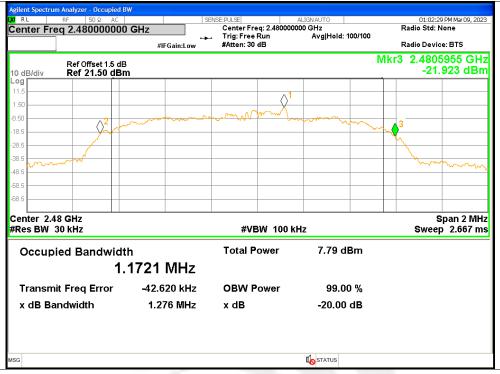
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-20dB Bandwidth NVNT 3-DH5 2480MHz





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5. Carrier Frequencies Separation

Condition	Mode	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	2401.942	2403.12	1.178	>=0.567	Pass
NVNT	1-DH5	2439.98	2440.974	0.994	>=0.568	Pass
NVNT	1-DH5	2478.974	2479.932	0.958	>=0.573	Pass
NVNT	2-DH5	2401.974	2402.96	0.986	>=0.845	Pass
NVNT	2-DH5	2440.982	2441.98	0.998	>=0.851	Pass
NVNT	2-DH5	2478.96	2480.022	1.062	>=0.844	Pass
NVNT	3-DH5	2402.12	2403.132	1.012	>=0.844	Pass
NVNT	3-DH5	2441.122	2442.12	0.998	>=0.852	Pass
NVNT	3-DH5	2478.976	2480.126	1.15	>=0.851	Pass



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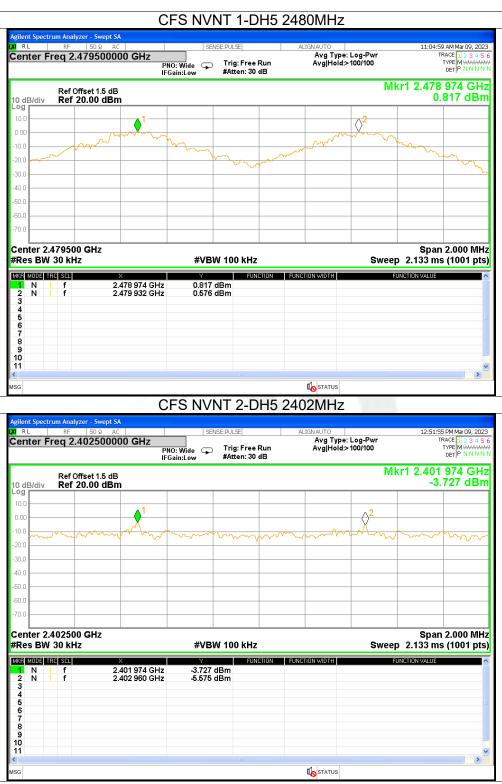
Report No.: STS2301115W07

	CI	Test Grap FS NVNT 1-DH5	5 2402MHz	
Agilent Spectrum Analyzer		control a col		10,50,10 (MM-00, 00)
Center Freq 2.40		SENSE:PULSE	ALIGNAUTO Avg Type: Log-Pwr Avg Hold>100/100	10:53:13 AM Mar 09, 202 TRACE 1 2 3 4 5 TYPE M WWWW
	PN IFG	0: Wide 😱 Trig: Free Run iain:Low #Atten: 30 dB		DET P N N N N
	et 1.5 dB		Mkı	1 2.401 942 GH -2.809 dBr
og	.00 dBm			-2.005 (15)
0.00				2
-10.0	m		m	ha
20.0		my my my		m
-30.0				· · · · · · · · · · · · · · · · · · ·
50.0				
-60.0				
70.0				
Center 2.402500 (GHz			Span 2.000 MH
#Res BW 30 kHz		#VBW 100 kHz	•	2.133 ms (1001 pts
MKR MODE TRC SCL	× 2.401 942 GHz	Y FUNCTION -2.809 dBm	FUNCTION WIDTH FUN	CTION VALUE
2 N 1 f 3	2.403 120 GHz	-2.396 dBm		
4 5				
5 6 7 8 9				
8				
10				
11				
11 <		a.	STATUS	
	CI	FS NVNT 1-DH5	-	>
11 SG Agilent Spectrum Analyzer	r - Swept SA		5 2441MHz	
SG gjjent Spectrum Analyzer R RL RF	r - Swept SA 50 ฉ AC I05000000 GHz	SENSE:PULSE	5 2441MHz Alignauto Avg Type: Log-Pwr	11:03:48 AM Mar 09, 202
11 SG gilent Spectrum Analyzer RL RF	r - Swept SA 50 Ω AC 10500000 GHz PN0		5 2441MHz Alignauto Avg Type: Log-Pwr Avg Hold>100/100	11:03:49 AM Mar 09, 200 TRACE 12:23:4 TYPE M MAXMAN DET P N N N N
11 sg glient Spectrum Analyzer @ RL RF Center Freq 2.44 Ref Offs	r - Swept SA 50 Ω AC 10500000 GHz PN IFG ret 1.5 dB	SENSE:PULSE O: Wide _ Trig: Free Run	5 2441MHz Alignauto Avg Type: Log-Pwr Avg Hold>100/100	11:03:49 AMMar 09, 200 TRACE 12 2 4 5 TYPE M MARCA DET P NNNN 1 2.439 980 GH
11 sglent Spectrum Analyzer RL RF Center Freq 2.44 Ref Offs 0 dB/div Ref 20.	r - Swept SA 50 Ω AC IO500000 GHz PN(IFG	SENSE:PULSE O: Wide _ Trig: Free Run	5 2441MHz Alignauto Avg Type: Log-Pwr Avg Hold>100/100	11:03:49 AMMar 09, 200 TRACE 12 2 4 5 TYPE M MARCA DET P NNNN 1 2.439 980 GH
11 gilent Spectrum Analyzer RL RF Center Freq 2.44 Ref Offs 0 dB/div Ref 20. 0 10.0	r - Swept SA 50 Ω AC 10500000 GHz PN IFG ret 1.5 dB	SENSE:PULSE O: Wide _ Trig: Free Run	5 2441MHz Alignauto Avg Type: Log-Pwr Avg Hold>100/100	11:03:49 AMMar 09, 200 TRACE 12 2 4 5 TYPE M MARCA DET P NNNN 1 2.439 980 GH
sglent Spectrum Analyzer	r - Swept SA 50 Ω AC 10500000 GHz PN IFG ret 1.5 dB	SENSE:PULSE O: Wide _ Trig: Free Run	5 2441MHz Alignauto Avg Type: Log-Pwr Avg Hold>100/100	11:03:49 AMMar 09, 200 TRACE 12 2 4 5 TYPE M MARCA DET P NNNN 1 2.439 980 GH
glient Spectrum Analyzer RL RF Center Freq 2.44 Ref Offs 0 dB/div Ref 20, 0 0 10.0	r - Swept SA 50 Ω AC 10500000 GHz PN IFG ret 1.5 dB	SENSE:PULSE O: Wide _ Trig: Free Run	5 2441MHz Alignauto Avg Type: Log-Pwr Avg Hold>100/100	11:03:49 AMMar 09, 200 TRACE 12 2 4 5 TYPE M MARCA DET P NNNN 1 2.439 980 GH
11 gilent Spectrum Analyzer RL RF Center Freq 2.44 Ref Offs 10.0 10.0 10.0 10.0 2	r - Swept SA 50 Ω AC 10500000 GHz PN IFG ret 1.5 dB	SENSE:PULSE O: Wide _ Trig: Free Run	5 2441MHz Alignauto Avg Type: Log-Pwr Avg Hold>100/100	11:03:49 AMMar 09, 200 TRACE 12 2 4 5 TYPE M MARCA DET P NNNN 1 2.439 980 GH
11 glient Spectrum Analyzer RL RF Center Freq 2.44 Ref Offs 10.0 0.00 10.0 1	r - Swept SA 50 Ω AC 10500000 GHz PN IFG ret 1.5 dB	SENSE:PULSE O: Wide _ Trig: Free Run	5 2441MHz Alignauto Avg Type: Log-Pwr Avg Hold>100/100	11:03:49 AMMar 09, 200 TRACE 12 2 4 5 TYPE M MARCA DET P NNNN 1 2.439 980 GH
11 siglent Spectrum Analyzer RL RF Center Freq 2.44 Ref Offs 10 dB/div Ref 20, 00 10.0 0.00 10.0 1	r - Swept SA 50 Ω AC 10500000 GHz PN IFG ret 1.5 dB	SENSE:PULSE O: Wide _ Trig: Free Run	5 2441MHz Alignauto Avg Type: Log-Pwr Avg Hold>100/100	11:03:48 AM Mar 09, 202 TRACE 12 3 4 5 TYPE M MARCAN DET P NN N 1 2.439 980 GH
Ref Offs 0 RE RF Center Freq 2.44 Ref Offs 0 B/div Ref Offs 0 0 0	r - Swept SA 50 Ω AC 10500000 GHz PN IFG ret 1.5 dB	SENSE:PULSE O: Wide _ Trig: Free Run	5 2441MHz Alignauto Avg Type: Log-Pwr Avg Hold>100/100	11:03:48 AM Mar 09, 202 TRACE [] 23 4 5 TYPE [] 23 4 5 TYPE [] MWNW DET [P NNNN 1 2.439 980 GH 1.364 dBn
11	- Swept SA 50 Ω AC IO500000 GHz PN IFG iet 1.5 dB .00 dBm	SENSE:PULSE O: Wide _ Trig: Free Run	5 2441MHz Alignauto Avg Type: Log-Pwr Avg Hold>100/100	11.03-49 AM Mar 09, 202 TRACE [] 23 4 5 TYPE [] WHINNIN DET [P NINNIN 1 2.439 980 GH 1.364 dBn
Ref Offs 0 B/div Ref Offs 0 B/div Ref Offs 0 0 B/div Ref 20. 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 <t< td=""><td>- Swept SA 50 Ω AC IO500000 GHz PN IFG iet 1.5 dB .00 dBm</td><td>SENSE:PULSE</td><td>5 2441MHz</td><td>11:03:49 AMMar 09, 202 TRACE 12:34 5 TYPE M WWWW 11 2.439 980 GH 1.364 dBr</td></t<>	- Swept SA 50 Ω AC IO500000 GHz PN IFG iet 1.5 dB .00 dBm	SENSE:PULSE	5 2441MHz	11:03:49 AMMar 09, 202 TRACE 12:34 5 TYPE M WWWW 11 2.439 980 GH 1.364 dBr
11 Image: Sector of the sector o	- Swept SA 50 Ω AC IO500000 GHz PN IFG iet 1.5 dB .00 dBm	SENSE:PULSE	5 2441MHz	11:03:49 AMMar 09, 202 TRACE 12:34 5 TYPE M WWWW 11 2.439 980 GH 1.364 dBr
11	r - Swept SA 50 Ω AC 10500000 GHz PN PN PN PN PN PN PN PN PN PN	SENSE:PULSE O: Wide Trig: Free Run #Atten: 30 dB #Atten: 30 dB #VBW 100 kHz FUNCTION 1.364 dBm	5 2441MHz	11:03:49 AM Mar 09, 202 TRACE 11 2:34:5 TYPE 12:34:5 TYPE 12:439 980 GH 1.364 dBr 1.364 dBr
11	r - Swept SA SD Q AC PROVIDENT OF CONTROL O	SENSE:PULSE O: Wide ain:Low Trig: Free Run #Atten: 30 dB #Atten: 30 dB #Atten: 40 dB #Atten: 40 dB #Atten: 40 dB	5 2441MHz	11:03:49 AM Mar 09, 202 TRACE 11 2:34:5 TYPE 12:34:5 TYPE 12:439 980 GH 1.364 dBr 1.364 dBr
III IIII IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	r - Swept SA 50 Ω AC 10500000 GHz PN PN PN PN PN PN PN PN PN PN	SENSE:PULSE O: Wide Trig: Free Run #Atten: 30 dB #Atten: 30 dB #VBW 100 kHz FUNCTION 1.364 dBm	5 2441MHz	11:03:49 AM Mar 09, 202 TRACE 11 2:34:5 TYPE 12:34:5 TYPE 12:439 980 GH 1.364 dBr 1.364 dBr
11 Ref Offs Ref Offs Ref Offs Center Freq 2.44 Ref 20, 0 dB/div Ref 20,	r - Swept SA 50 Ω AC 10500000 GHz PN PN PN PN PN PN PN PN PN PN	SENSE:PULSE O: Wide Trig: Free Run #Atten: 30 dB #Atten: 30 dB #VBW 100 kHz FUNCTION 1.364 dBm	5 2441MHz	11:03:48 AM Mar 09, 202 TRACE 11 2:34 5 TYPE 12:34 5 TYPE 12:439 980 GH 1.364 dBn 4.364 dBn 4.36
11 Alight Spectrum Analyzer RL RF Center Freq 2.44 0 dB/div Ref Offs 10 dB/div Ref 20. 0 dB/div	r - Swept SA 50 Ω AC 10500000 GHz PN PN PN PN PN PN PN PN PN PN	SENSE:PULSE O: Wide Trig: Free Run #Atten: 30 dB #Atten: 30 dB #VBW 100 kHz FUNCTION 1.364 dBm	5 2441MHz	11:03:49 AM Mar 09, 202 TRACE 11 2:34:5 TYPE 12:34:5 TYPE 12:439 980 GH 1.364 dBr 1.364 dBr



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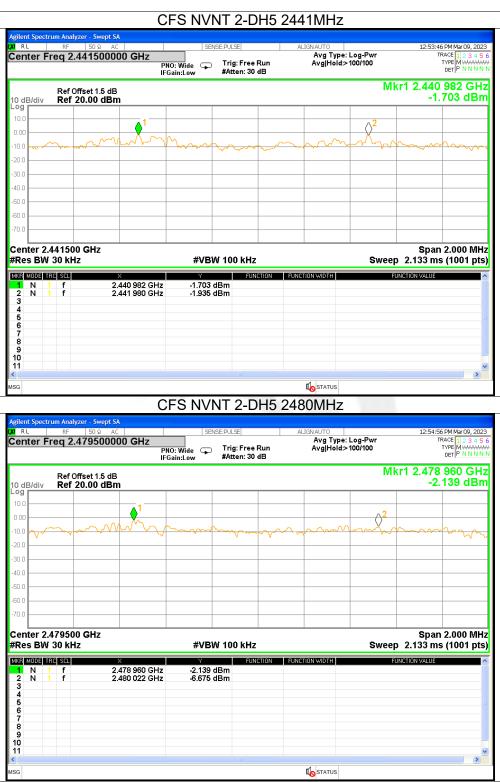


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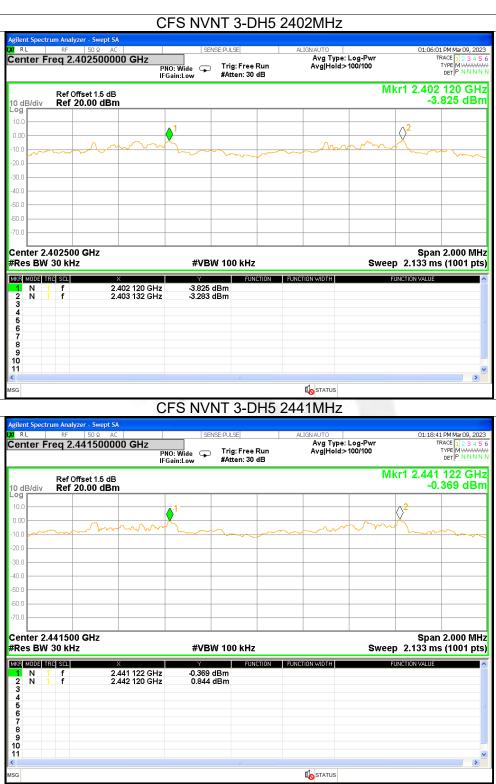


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15W07

gilent Spectrum Analyzer - S RL RF 50		SENSE:PU		2480MHz		01:14:14 PM Mar 09, 2023
enter Freq 2.479	500000 GHz PNO:	Wide 🕤 Ti	rig: Free Run Atten: 30 dB	Avg Type: Avg Hold>	: Log-Pwr • 100/100	TRACE 1 2 3 4 5 6 TYPE MWWWW DET P N N N N N
Ref Offset					Mkr1 2	.478 976 GHz -0.967 dBm
og 10.0	1					
0.00		<u> </u>			X	
10.0	the a mund	mon		man ha		
20.0						
40.0						
50.0						
60.0						
70.0						
enter 2.479500 GH Res BW 30 kHz	Z	#VBW 1	00 kHz			Span 2.000 MHz 33 ms (1001 pts)
KR MODE TRC SCL	× 2.478 976 GHz	-0.967 dBm		FUNCTION WIDTH	FUNCTION	VALUE
2 N 1 f 3	2.480 126 GHz	0.409 dBm				
4 5						
6 7 8						
8						
Ō						



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6. 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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	Царг		apns ⁻ 1-DH5 Hopping	
gilent Spectrum Analy		Ding NO. NVN I		
KIRL RF	50 Ω AC 441750000 GHz	SENSE:PULSE	ALIGNAUTO Avg Type: Log-Pwr	11:01:39 AM Mar 09, 202 IRACE 12, 2, 4, 5
Jenter Freq Z.	Р	NO: Fast 😱 Trig: Free I Gain:Low #Atten: 30	Run Avg Hold:>100/100	TRACE 1 2 3 4 5 TYPE MWWWW DET P N N N N
Ref O	ffset 1.5 dB	Sum Low		kr1 2.402 004 0 GH
	20.00 dBm			0.310 dBn
10.0		<u> </u>	000000000000000000000000000000000000000	
-10.0				
-20.0	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA		AAAAAAAAA AAAAAAAAAAAAAAAAAAAAAAAAAAAA	
-30.0				
-40.0				
-60.0				<u> </u>
-70.0				
Start 2.40000 G #Res BW 100 ki		#VBW 300 kHz	Quic	Stop 2.48350 GH ep 8.000 ms (1001 pts
MKR MODE TRC SCL	×		CTION FUNCTION WIDTH	FUNCTION VALUE
1 N 1 f 2 N 1 f	2.402 004 0 GHz 2.480 160 0 GHz	0.310 dBm 2.890 dBm		
3				
4 5 6 7				
7 8 9				
10				
11 <				
ISG			STATUS	
			-	
	Норр	oing No. NVNT	2-DH5 Hopping	
		Ding No. NVNT	2-DH5 Hopping	12:52:50 PM Mar 09, 202
K/RL RF	rzer - Swept SA 50 Ω AC 441750000 GHz P	SENSE:PULSE	2-DH5 Hopping	TRACE 1 2 3 4 5 TYPE MWARAA
RL RF Center Freq 2.	rzer - Swept SA 50 Ω AC 441750000 GHz P IF	SENSE:PULSE	2-DH5 Hopping	TRACE 1 2 3 4 5 TYPE MWWW DET P N N N N
Center Freq 2. Ref 0 10 dB/div Ref 2	rzer - Swept SA 50 Ω AC 441750000 GHz P	SENSE:PULSE	2-DH5 Hopping	TRACE 12345 TYPE MWWWW DET PNNNN
Zenter Freq 2. Ref 0	rzer - Swept SA 50 AC 441750000 GHz P IF IF IF IF IF	SENSE:PULSE	2-DH5 Hopping	TRACE 12345 TYPE MWWWW DET PNNNN
RL RF Center Freq 2.	rzer - Swept SA 50 Q AC 441750000 GHz P IF IF IF 15 dB 20.00 dBm	SENSE:PULSE NO: Fast Trig: Free Gain:Low #Atten: 30	ALIGNAUTO Avg Type: Log-Pwr Avg Hold>100/100	rrace[12345 Type[Mawawawa per[PNNNN rr1 2.402 004 0 GH; -2.118 dBn
RL RF Center Freq 2. Ref 0 10 dB/div Ref 2 10.0 10	rzer - Swept SA 50 AC 441750000 GHz P IF IF IF IF IF	SENSE:PULSE NO: Fast Trig: Free Gain:Low #Atten: 30	2-DH5 Hopping	rrace[12345 Type[Mawawawa per[PNNNN rr1 2.402 004 0 GH; -2.118 dBn
RL RF Center Freq 2. Ref 0 10 dB/div Ref 2 10.0 10	rzer - Swept SA 50 Q AC 441750000 GHz P IF IF IF 15 dB 20.00 dBm	SENSE:PULSE NO: Fast Trig: Free Gain:Low #Atten: 30	ALIGNAUTO Avg Type: Log-Pwr Avg Hold>100/100	rrace[12345 Type[Mawawawa per[PNNNN rr1 2.402 004 0 GH; -2.118 dBn
RL RF Center Freq 2. Ref 0 10 dB/div Ref 2 10.0 10	rzer - Swept SA 50 Q AC 441750000 GHz P IF IF IF 15 dB 20.00 dBm	SENSE:PULSE NO: Fast Trig: Free Gain:Low #Atten: 30	ALIGNAUTO Avg Type: Log-Pwr Avg Hold>100/100	rrace[12345 Type[Mawawawa per[PNNNN rr1 2.402 004 0 GH; -2.118 dBn
RL RF Center Freq 2. Ref 0 10 dB/div Ref 2 10.0 10	rzer - Swept SA 50 Q AC 441750000 GHz P IF IF IF 15 dB 20.00 dBm	SENSE:PULSE NO: Fast Trig: Free Gain:Low #Atten: 30	ALIGNAUTO Avg Type: Log-Pwr Avg Hold>100/100	rrace[12345 Type[Mawawawa per[PNNNN rr1 2.402 004 0 GH; -2.118 dBn
Ref O 10 dB/div Ref 7 10 0 10 0	rzer - Swept SA 50 Q AC 441750000 GHz P IF IF IF 15 dB 20.00 dBm	SENSE:PULSE NO: Fast Trig: Free Gain:Low #Atten: 30	ALIGNAUTO Avg Type: Log-Pwr Avg Hold>100/100	rrace[12345 Type[Mawawawa per[PNNNN rr1 2.402 004 0 GH; -2.118 dBn
RL RF Center Freq 2. Ref 0 10 dB/div Ref 2 000 10.	rzer - Swept SA 50 g AC 441750000 GHz P IF IF IF IF IF IF IF IF IF IF	SENSE:PULSE NO: Fast Trig: Free Gain:Low #Atten: 30	ALIGNAUTO Avg Type: Log-Pwr Avg Hold>100/100	xr1 2.402 004 0 GH -2.118 dBn
RL RF Center Freq 2. Ref 0 10 Ref 0 10.0 1 10.0	rzer - Swept SA 50 g AC 441750000 GHz P IF IF IF IF IF IF IF IF IF IF	SENSE:PULSE NO: Fast Trig: Free Gain:Low #Atten: 30	ALIGNAUTO Avg Type: Log-Pwr Avg Hoid>100/100 Avg Hoid>100/100 MI	TRACE 12345 TYPE [MINN cer [P NNNN cer [P
RL RF Center Freq 2. Ref 0 10 dB/div Ref 2 10 dB/div R	rzer - Swept SA 50 g AC 441750000 GHz P IF IF IF IF IF IF IF IF IF IF	SENSE:PULSE NO: Fast Trig: Free I #Atten: 30 #Atten: 30 #Atten: 40 #Atten: 40 #Atten	ALIGNAUTO Avg Type: Log-Pwr Avg Hoid>100/100 Avg Hoid>100/100 MI	rrace[12345 Type[Mawawawa per[PNNNN rr1 2.402 004 0 GH; -2.118 dBn
RL RF Center Freq 2. Ref 0 10 dB/div Ref 2	rzer - Swept SA 50 g AC 441750000 GHz P IF IF IF IF IF IF IF IF IF IF	SENSE:PULSE NO: Fast Trig: Free I #Atten: 30	C2-DH5 Hopping	stop 2.48350 GH Stop 2.48350 GH
X RL RF Center Freq 2. Ref 0 10 Block Ref 10 00 1 Ref 2 10.0 1 Ref 2 10.0 1 Ref 3	Zer - Swept SA 50 g AC 441750000 GHz P IF Iffset 1.5 dB 20.00 dBm MMMMMMM HZ Hz 2.402 004 0 GHz	SENSE:PULSE NO: Fast Trig: Free I #Atten: 30 #Atten: 40 #Atten: 40 #Atten	C2-DH5 Hopping	Trace [] 2 3 4 5 Type [Munocold of GH: -2.118 dBn -2.118 dBn Stop 2.48350 GH Bep 8.000 ms (1001 pts
RL RF Center Freq 2. Ref 0 10 dB/div Ref 2 10.0 1 10.0 1 10.0 1 10.0 1 10.0 1 10.0 1 10.0 1 10.0 1 10.0 1 0.00 <td< td=""><td>Zer - Swept SA 50 g AC 441750000 GHz P IF Iffset 1.5 dB 20.00 dBm MMMMMMM HZ Hz 2.402 004 0 GHz</td><td>SENSE:PULSE NO: Fast Trig: Free I #Atten: 30 #Atten: 40 #Atten: 40 #Atten</td><td>C2-DH5 Hopping</td><td>Trace [] 2 3 4 5 Type [Munocold of GH: -2.118 dBn -2.118 dBn Stop 2.48350 GH Bep 8.000 ms (1001 pts</td></td<>	Zer - Swept SA 50 g AC 441750000 GHz P IF Iffset 1.5 dB 20.00 dBm MMMMMMM HZ Hz 2.402 004 0 GHz	SENSE:PULSE NO: Fast Trig: Free I #Atten: 30 #Atten: 40 #Atten: 40 #Atten	C2-DH5 Hopping	Trace [] 2 3 4 5 Type [Munocold of GH: -2.118 dBn -2.118 dBn Stop 2.48350 GH Bep 8.000 ms (1001 pts
X RL RF Center Freq 2. Ref 0 10 dB/div Ref 1 00 1 Ref 0 10.0 1 1 20.0 1 1 30.0 1 1 40.0 1 1 50.0 1 1 50.0 1 1 50.0 1 1 50.0 1 1 50.0 1 1 50.0 1 1 6 1 1 7 1 1 1 8 1 1 1	Zer - Swept SA 50 g AC 441750000 GHz P IF Iffset 1.5 dB 20.00 dBm MMMMMMM HZ Hz 2.402 004 0 GHz	SENSE:PULSE NO: Fast Trig: Free I #Atten: 30 #Atten: 40 #Atten: 40 #Atten	C2-DH5 Hopping	Trace [] 2 3 4 5 Type [Munocold of GH: -2.118 dBn -2.118 dBn Stop 2.48350 GH Bep 8.000 ms (1001 pts
RL RF Center Freq 2. Ref 0 0 dB/div Ref 10 0 dB/div Ref 2 10 dB/div Ref 2 10 dB/div Ref 3	Zer - Swept SA 50 g AC 441750000 GHz P IF Iffset 1.5 dB 20.00 dBm MMMMMMM HZ Hz 2.402 004 0 GHz	SENSE:PULSE NO: Fast Trig: Free I #Atten: 30 #Atten: 40 #Atten: 40 #Atten	C2-DH5 Hopping	stop 2.48350 GH Stop 2.48350 GH
RL RF Center Freq 2. Ref 0 10 dB/div Ref 1 10 dB/div Ref 2 10 dB/div Ref 2 10 dB/div Ref 2	Zer - Swept SA 50 g AC 441750000 GHz P IF Iffset 1.5 dB 20.00 dBm MMMMMMM HZ Hz 2.402 004 0 GHz	SENSE:PULSE NO: Fast Trig: Free I #Atten: 30 #Atten: 40 #Atten: 40 #Atten	C2-DH5 Hopping	Trace [] 2 3 4 5 Type [Munocold of GH: -2.118 dBn -2.118 dBn Stop 2.48350 GH Bep 8.000 ms (1001 pts

A 1/F, Building B, Zhuoke Science Park, No.190 Chongqing Road, HepingShequ, Fuyong Sub-District, Bao'an District, Shenzhen, Guang Dong, China Tel: +86-755 3688 6288 Fax:+86-755 3688 6277 Http://www.stsapp.com E-mail: sts@stsapp.com

Shenzhen STS Test Services Co., Ltd.



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Нор	ping No. NV	NT 3-DH5 I	lopping	
gilent Spectrum Analyzer - Swept SA RL RF 50 Q AC enter Freq 2.441750000 GHz			AUTO Avg Type: Log-Pwr wg Hold>100/100	01:07:37 PM Mar 09, 202 TRACE 1 2 3 4 5 TYPE M MMMMM DET P N N N N
Ref Offset 1.5 dB 0 dB/div Ref 20.00 dBm			Mkr1	2.402 922 5 GH -1.238 dBn
0.00 1 0.00 1 0.00 NWMMMMMMMMMMM	WWWWWWWWW	WWW	where a construction	and the second stand of the second stand s
0.0				h
tart 2.40000 GHz Res BW 100 kHz	#VBW 300	kHz	Sweep	Stop 2.48350 GH 8.000 ms (1001 pts
KR MODE TRC SCL X 1 N 1 f 2.402 922 5 GH; 2 N 1 f 2.402 922 5 GH; 3 3 3 4 5 6 6 6		FUNCTION FUNCTION	WIDTH FU	NCTION VALUE
7 8 9 0 1				
G			STATUS	



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7. Band Edge

Condition	Mode	Frequency (MHz)	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	No-Hopping	-55.95	<=-20	Pass
NVNT	1-DH5	2480	No-Hopping	-59.38	<=-20	Pass
NVNT	2-DH5	2402	No-Hopping	-53.22	<=-20	Pass
NVNT	2-DH5	2480	No-Hopping	-59.67	<=-20	Pass
NVNT	3-DH5	2402	No-Hopping	-53	<=-20	Pass
NVNT	3-DH5	2480	No-Hopping	-59.58	<=-20	Pass



Shenzhen STS Test Services Co., Ltd.



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	Ω AC	SENS	E:PULSE	ALIGNAUTO		10:44:04 AM Mar 09, 20
enter Freq 2.4020	Р	NO: Wide 🔸	Trig: Free Run #Atten: 30 dB	Avg Type Avg Hold:		TRACE 1 2 3 4 5 TYPE MWWWW DET P N N N
Ref Offset 1 0 dB/div Ref 20.00					Mki	r1 2.402 120 GH -0.205 dBi
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0.00			/			
10.0						
20.0				\mathbf{X}		
30.0						
40.0						
50.0		- Juni		- May		
50.0 water while water and the	where we have the provide	n hold and		un u	Wellowayanan	handerstallighter
70.0						
0.0						
enter 2.402000 GH	Z					Span 8.000 MH
Res BW 100 kHz		#VBW	300 kHz	I STATUS	#Sweep	100.0 ms (1001 pt
			5 2402M	Hz No-Hop	ning Em	ission
Danu						
gilent Spectrum Analyzer - S	wept SA				<u>p</u>	
g <mark>ilent Spectrum Analyzer - S</mark> RL RF 50	wept SA Ω AC 000000 GHz	SENS	E:PULSE	ALIGNAUTO	: Log-Pwr	10:44:17 AM Mar 09, 20
g <mark>ilent Spectrum Analyzer - S</mark> RL RF 50	wept SA Ω AC 1000000 GHz			ALIGNAUTO	: Log-Pwr 100/100	10:44:17 AM Mar 09, 20 TRACE 1 2 3 4 5 TYPE MWWWW DET P N N N
RL RF 50 RL RF 50 RL RF 50 RET Freq 2.3560 Ref Offset 1 0 dB/div Ref 20.00	wept SA Ω AC 1000000 GHz IF IF I.5 dB	SENS	E:PULSE Trig: Free Run	ALIGNAUTO	: Log-Pwr 100/100	10:44:17 AM Mar 09, 20 TRACE 1 2 3 4 5 TYPE M WWWW DET P N N N 1kr1 2.402 0 GH
glient Spectrum Analyzer - S RL RF 50 enter Freq 2.3560 Ref Offset 1 0 dB/div Ref 20.00	wept SA Ω AC 1000000 GHz IF IF I.5 dB	SENS	E:PULSE Trig: Free Run	ALIGNAUTO	: Log-Pwr 100/100	10:44:17 AM Mar 09, 20 TRACE 1 2 3 4 5 TYPE M WWWW DET P N N N 1kr1 2.402 0 GH
Rel RF 50 RL RF 50 center Freq 2.3560 Ref Offset 1 0 dB/div Ref 20.00 99 0 0.00 0	wept SA Ω AC 1000000 GHz IF IF I.5 dB	SENS	E:PULSE Trig: Free Run	ALIGNAUTO	: Log-Pwr 100/100	10:44:17 AM Mar 09, 20 TRACE 1 2 3 4 5 TYPE M WWWW DET P N N N 1kr1 2.402 0 GH
Rel RF 50 RL RF 50 enter Freq 2.3560 Ref Offset 1 0 dB/div Ref 20.00 .93	wept SA Ω AC 1000000 GHz IF IF I.5 dB	SENS	E:PULSE Trig: Free Run	ALIGNAUTO	: Log-Pwr 100/100	10:44:17 AM M9709, 20 TRACE 12:33 5 TYPE M WWWW per IP NNNN 1kr1 2.402 0 GH -0.511 dBr
Rt RF 50 RL RF 50 center Freq 2.3560 Ref Offset 1 0 dB/div Ref 20.00 .9g	wept SA Ω AC 1000000 GHz IF IF I.5 dB	SENS	E:PULSE Trig: Free Run	ALIGNAUTO	: Log-Pwr 100/100	10:44:17 AM M# 09, 20 TRACE 1 2 3 4 5 TYPE WWWW DEF / N N N 1 1kr1 2.402 0 GH -0.511 dBr
Rel RF S0 Conter Freq 2.3560 S0 Conter	wept SA Ω AC 1000000 GHz IF IF I.5 dB	SENS	E:PULSE Trig: Free Run	ALIGNAUTO	: Log-Pwr 100/100	10:44:17 AM M9709, 20 TRACE 12:33 5 TYPE M WWWW per IP NNNN 1kr1 2.402 0 GH -0.511 dBr
glient Spectrum Analyzer - S RL RF 50 center Freq 2.3560 Ref Offset 1 Ref Offset 1 0 dB/div Ref 20.00 Ref 20.00 0 g 10.0 10.0 10.0 0 d0 10.0 10.0 10.0 10.0 0 d0 10.0	wept SA Ω AC 1000000 GHz IF IF I.5 dB	SENS	E:PULSE Trig: Free Run	ALIGNAUTO	: Log-Pwr 100/100	10:44:17 AM M9709, 20 TRACE 12:33 5 TYPE M WWWW per IP NNNN 1kr1 2.402 0 GH -0.511 dBr
glient Spectrum Analyzer - S RL RF 50 Center Freq 2.3560 Ref Offset 1	wept SA Ω AC 1000000 GHz IF IF I.5 dB	SENS	E:PULSE Trig: Free Run	ALIGNAUTO	: Log-Pwr 100/100	10:44:17 AM M9709, 20 TRACE 12:33 5 TYPE M WWWW per IP NNNN 1kr1 2.402 0 GH -0.511 dBr
glient Spectrum Analyzer - S RL RF 50 center Freq 2.3560 Ref Offset 1 O dB/div Ref 20.00 O d 20 0 0.00 0 0 0.00 0 0 0 0.00 0 0 0 0 0.00 0 0 0 0 0 0.00 0	wept SA Ω AC 1000000 GHz IF IF I.5 dB	SENS	E:PULSE Trig: Free Run	ALIGNAUTO	: Log-Pwr 100/100	10:44:17 AM M9709, 20 IRACE 1 2 3 4 TYPE MWWW pet IP NNNN 1kr1 2.402 0 GH -0.511 dBr -0.511 dBr -0.511 dBr
Rel RF 50 RL RF 50 center Freq 2.3560 Ref Offset 1 0 dB/div Ref 20.00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	wept SA Ω AC 1000000 GHz IF IF I.5 dB	SEVS	E:PULSE Trig: Free Run	ALIGNAUTO	: Log-Pwr 100/100	10:44:17 AM M9709, 20 TRACE 12:33 5 TYPE M WWWW per IP NNNN 1kr1 2.402 0 GH -0.511 dBr
glient Spectrum Analyzer - S RL RE SO Ref Offset 1 Ref Offset 1 SO O dB/div Ref 20.00 Ref 20.00 10.0 Ref 20.00 Ref 2	wept SA Ω AC 1000000 GHz IF IF I.5 dB	SENS PNO: Fast →→- Gain:Low	E:PULSE Trig: Free Run #Atten: 30 dB	ALIGNAUTO	: Log-Pwr 100/100	10:44:17 AM M9209, 20 TRACE 1 2 3 4 5 TYPE M WWW DET /P NNNN 1kr1 2.402 0 GH -0.511 dBr -0.511 dBr -24.20 df -24.20 df -24.
glient Spectrum Analyzer - S RL RE SO RL RE SO Ref Offset 1 Ref Offset 1 SO O dB/div Ref 20.00 Ref 20.00 10.0 Ref 20.00 Ref 20.00 20.0 Ref 20.00 Ref 20.00 </td <td>wept SA Q AC Q AC Q AC Q AC ID00000 GHz F IF IF IS dB IdBm IdBm IdBm IdBm</td> <td>SENS PNO: Fast →→ Gain:Low #VBW 4.0.511 di -58.690 di</td> <td>E:PULSE Trig: Free Run #Atten: 30 dB</td> <td>ALIGNAUTO Avg Type Avg Hold:</td> <td>: Log-Pwr 100/100</td> <td>10:44:17 AM M9709, 20 IRACE 1 2 3 4 TYPE MWWW DET P NNN 1kr1 2.402 0 GH -0.511 dBr -0.511 dBr -</td>	wept SA Q AC Q AC Q AC Q AC ID00000 GHz F IF IF IS dB IdBm IdBm IdBm IdBm	SENS PNO: Fast →→ Gain:Low #VBW 4.0.511 di -58.690 di	E:PULSE Trig: Free Run #Atten: 30 dB	ALIGNAUTO Avg Type Avg Hold:	: Log-Pwr 100/100	10:44:17 AM M9709, 20 IRACE 1 2 3 4 TYPE MWWW DET P NNN 1kr1 2.402 0 GH -0.511 dBr -0.511 dBr -
glient Spectrum Analyzer - S RL RF SO RL RF SO Ref Offset 1 Ref Offset 1 Ref Offset 1 O dB/div Ref 20.00 Ref 20.00 SO Ref 20.00 Ref 20.00 Ref 20.00 Ref 20.00 Ref 20.00	wept 5A 2 AC 000000 GHz IF	SENS PNO: Fast →→ Gain:Low #VBW 4.0.511 dl -58.690 dl -58.690 dl	E:PULSE Trig: Free Run #Atten: 30 dB	ALIGNAUTO Avg Type Avg Hold:	: Log-Pwr 100/100	10:44:17 AM M9709, 20 IRACE 1 2 3 4 TYPE MWWW DET P NNN 1kr1 2.402 0 GH -0.511 dBr -0.511 dBr -
glient Spectrum Analyzer - S RL RF SO Center Freq 2.3560 Ref Offset 1 SO O dB/div Ref 20.00 SO O dB/div Ref 20.00 SO O dD A A O dB/div Ref 20.00 SO O dD A A Start 2.30600 GHz Se Res BW 100 kHz A M 1 F A A F	wept SA Q AC Q AC Q AC Q AC ID00000 GHz F IF IF IS dB IdBm IdBm IdBm IdBm	SENS PNO: Fast →→ Gain:Low #VBW 4.0.511 di -58.690 di	E:PULSE Trig: Free Run #Atten: 30 dB	ALIGNAUTO Avg Type Avg Hold:	: Log-Pwr 100/100	10:44:17 AM M9709, 20 TRACE 12 3 4: TYPE MUMUND TYPE MUMUND 1kr1 2.402 0 GH -0.511 dBI -0.511 dB



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Report No.: STS2301115W07

Dai	nu Luye r	NVINT 1-D	HO 2480	MHz No-H	opping	Rei
Agilent Spectrum Analyzer - Sw ₩ RL RF 50 Ω		SENSE:		ALIGNAUTO		10:51:37 AM Mar 09, 2
Center Freq 2.48000	00000 GHz	NO:Wide ↔ 1	rig: Free Run Atten: 30 dB	ALIGNAUTO Avg Type: I Avg Hold: 1	_og-Pwr 00/100	TRACE 1 2 3 4 TYPE MWWA DET P N N N
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0.00						
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-30.0						
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-60.0 where many fight marked month	any they have a have a have	alang where		4. Mary Marked Var	harmonikate	all marine and the second
-70.0						
Center 2.480000 GHz						Span 8.000 M
#Res BW 100 kHz		#VBW 3	300 KHZ		#Sweep	o 100.0 ms (1001 p
Band				•		
			2480MH	Z No-Hop	ning Em	nission
Agilent Spectrum Analyzer - Sw		NT 1-DH5	2480MH	Iz No-Hop	oing Err	nission
Agilent Spectrum Analyzer - Sw March RF 50 ହ	ept SA AC	NT 1-DH5				10:51:51 AM Mar 09, 2 TRACE 1 2 3 4
Agilent Spectrum Analyzer - Sw March RF 50 ହ	rept SA AC 00000 GHz	SENSE:		ALIGNAUTO	_og-Pwr	10:51:51 AM Mar 09, 2
Agilent Spectrum Analyzer - Sw X RL RF 50 Ω Center Freq 2.52600 Ref Offset 1.	ept SA AC 000000 GHz I I 5 dB	SENSE: PNO: Fast	PULSE	ALIGNAUTO Avg Type: I	_og-Pwr 00/100	10:51:51 AM Mar09, 2 TRACE 1 2.3 4 TYPE MWWW DET P N N N Mkr1 2.479 8 G
Agilent Spectrum Analyzer - Sw X RL RF 50 Ω Center Freq 2.52600 Ref Offset 1. 10 dB/div Ref 20.00 Log	ept SA AC 000000 GHz I I 5 dB	SENSE: PNO: Fast	PULSE	ALIGNAUTO Avg Type: I	_og-Pwr 00/100	10:51:51 AM Mar 09, 2 TRACE 1 2 3 4 TYPE M WWW DET P N N
Agilent Spectrum Analyzer - Sw X RL RF 50 Ω Center Freq 2.52600 Ref Offset 1: 10 dB/div Ref 20.00	ept SA AC 000000 GHz I I 5 dB	SENSE: PNO: Fast	PULSE	ALIGNAUTO Avg Type: I	_og-Pwr 00/100	10:51:51 AM Mar09, 2 TRACE 1 2.3 4 TYPE MWWW DET P N N N Mkr1 2.479 8 G
Agilent Spectrum Analyzer - Sw X RL RF 50 Q Center Freq 2.52600 Center Freq 2.52600 Ref Offset 1: Ref 20.00 10.0 10.0 10.0 10.0	ept SA AC 000000 GHz I I 5 dB	SENSE: PNO: Fast	PULSE	ALIGNAUTO Avg Type: I	_og-Pwr 00/100	10:51:51 AM Mar09, 2 TRACE 1 2.3 4 TYPE MWWW DET P N N N Mkr1 2.479 8 G
Agilent Spectrum Analyzer - Sw X RL RF 50 Q Center Freq 2.52600 Ref Offset 1: 10 dB/div Ref 20.00 10.0	ept SA AC 000000 GHz I I 5 dB	SENSE: PNO: Fast	PULSE	ALIGNAUTO Avg Type: I	_og-Pwr 00/100	10:51:51 AMMar09, 2 ITRACE [1::] 3 4 TYPE MWWW DET[P NNN Mkr1 2.479 8 Gi 2.587 dB
Agilent Spectrum Analyzer - Sw R RL RF 50 0 Center Freq 2.52600 Ref Offset 1/2 Ref 20.00 10.0 10	ept SA AC 000000 GHz I I 5 dB	SENSE: PNO: Fast	PULSE	ALIGNAUTO Avg Type: I	_og-Pwr 00/100	10:51:51 AMMar09, 2 ITRACE [1::] 3 4 TYPE MWWW DET[P NNN Mkr1 2.479 8 Gi 2.587 dB
Agilent Spectrum Analyzer - Sw R RL RF 50 0 Center Freq 2.52600 10 dB/div Ref 20.00 10.0 10	ept SA AC 000000 GHz I I 5 dB	SENSE: PNO: Fast	PULSE	ALIGNAUTO Avg Type: I	_og-Pwr 00/100	10:51:51 AMMar09, 2 ITRACE [1::] 3 4 TYPE MWWW DET[P NNN Mkr1 2.479 8 Gi 2.587 dB
Agilent Spectrum Analyzer - Sw R R RF 50 0 Center Freq 2.52600 10.0	ept SA AC 000000 GHz I I 5 dB	SENSE: PNO: Fast	PULSE	ALIGNAUTO Avg Type: I	_og-Pwr 00/100	10:51:51 AMMar09, 2 ITRACE [1::] 3 4 TYPE MWWW DET[P NNN Mkr1 2.479 8 Gi 2.587 dB
Agilent Spectrum Analyzer - Sw 20 RL RF 50 Q Center Freq 2.52600 Ref Offset 1. 10 dB/div Ref 20.00 10.0 -10.0 -20.0 -30.0 -40.0 -50.	ept SA AC 000000 GHz I I 5 dB	SENSE:	PULSE	ALIGNAUTO Avg Type: I	og-Pwr 00/100	10:51:51 AMMar 09, 2 TRACE [1:2:4 TYPE MANNA DET[P NNN Mkr1 2.479 8 GF 2.587 dB
Agilent Spectrum Analyzer - Sw R RL RF 50 Q Center Freq 2.52601 Ref Offset 1. 10 dB/div Ref 20.00 10.0 10.0 -20.0 -30.0 -40.0 -50.0 -70.0	ept SA AC 000000 GHz I I 5 dB	SENSE/	Trig: Free Run Atten: 30 dB	ALIGNAUTO Avg Type: I Avg Hold: 1	og-Pwr oortoo	10:51:51 AMMar 09, 2 TRACE [1::] 3 TYPE MANNA DET P NNN Mkr1 2.479 8 Gi 2.587 dB
Agilent Spectrum Analyzer - Sw RL RF 50 Q Center Freq 2.52600 Ref Offset 1. 10 dB/div Ref 20.00 10.0 1	ept 5A AC D00000 GHz II 5 dB dBm 4 4 4 4 4 2.479 8 GHz 2.479 8 GHz 2.473 5 GHz	SENSER PNO: Fast → 1 FGain:Low →	PULSE	ALIGNAUTO Avg Type: I Avg Hold: 1	og-Pwr oortoo	10:51:51 AMMar 09, 2 TRACE [1:34] TYPE MANNA DET PININ Mkr1 2.479 8 Gi 2.587 dB
Agilent Spectrum Analyzer - Sw R RL RF 50 Q Center Freq 2.52601 Ref Offset 1. 10 dB/div Ref 20.00 10.0	rept SA AC D00000 GHz I S dB dBm 4 4 4 2.479 8 GHz	SENSE: PNO: Fast → 1 FGain:Low # #VBW 3 * 2.587 dBi -58.262 dBi -57.426 dBi	SULSE	ALIONAUTO Avg Type: I Avg Hold: 1	og-Pwr oortoo	10:51:51 AMMar 09, 2 TRACE [1:34] TYPE MANNA DET PININ Mkr1 2.479 8 Gi 2.587 dB
Agilent Spectrum Analyzer - Sw X RL RF 50 Q Center Freq 2.52600 Ref Offset 1: 10 dB/dlv Ref 20.00 10.0	AC 00000 GHz 100000 GHz 10000 GHZ 100000 GHZ 10000 GHZ 100000 GHZ 10000 GHZ 100000 GHZ 100000 GHZ 10000000 GHZ 100000 GHZ 100000 GHZ 1000000 GHZ 100000 GHZ 100000 GHZ 10	SENSE: PNO: Fast → 1 FGain:Low # # # VBW 3 * VBW 3 * * * * * * * * * * * * *	SULSE	ALIONAUTO Avg Type: I Avg Hold: 1	og-Pwr oortoo	10:51:51 AMMar 09, 2 TRACE [1:34] TYPE MANNA DET PININ Mkr1 2.479 8 Gi 2.587 dB
Agilent Spectrum Analyzer - Sw R RL RF 50 Q Center Freq 2.52601 Ref Offset 1. 10 dB/div Ref 20.00 10 0 10 0	AC 00000 GHz 100000 GHz 10000 GHZ 100000 GHZ 10000 GHZ 100000 GHZ 10000 GHZ 100000 GHZ 100000 GHZ 10000000 GHZ 100000 GHZ 100000 GHZ 1000000 GHZ 100000 GHZ 100000 GHZ 10	SENSE: PNO: Fast → 1 FGain:Low # # # VBW 3 * VBW 3 * * * * * * * * * * * * *	SULSE	ALIONAUTO Avg Type: I Avg Hold: 1	og-Pwr oortoo	10:51:51 AMMar 09, 2 TRACE [1:34] TYPE MANNA DET PININ Mkr1 2.479 8 Gi 2.587 dB
Agilent Spectrum Analyzer - Sw R RL RF 50 Q Center Freq 2.52601 Ref Offset 1. 10 dB/div Ref 20.00 10.0	AC 00000 GHz 100000 GHz 10000 GHZ 100000 GHZ 10000 GHZ 100000 GHZ 10000 GHZ 100000 GHZ 100000 GHZ 10000000 GHZ 100000 GHZ 100000 GHZ 1000000 GHZ 100000 GHZ 100000 GHZ 10	SENSE: PNO: Fast → 1 FGain:Low # # # VBW 3 * VBW 3 * * * * * * * * * * * * *	SULSE	ALIONAUTO Avg Type: I Avg Hold: 1	og-Pwr oortoo	10:51:51 AMMar 09, 2 TRACE [1:34] TYPE MANNA DET PININ Mkr1 2.479 8 Gi 2.587 dB



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	Band	d Edge N	IVNT 2-	DH5 2402	MHz No-H	opping I	Ket
Agilent Spec	t <mark>rum Analyzer - Swept</mark> RF 50 Ω		SEN	SE:PULSE	ALIGNAUTO		12:45:06 PM Mar 09, 2023
	Freq 2.402000	000 GHz P	NO: Wide +++ Gain:Low	Trig: Free Run #Atten: 30 dB	Avg Type: Avg Hold: 1		TRACE 1 2 3 4 5 6 TYPE MWWWW DET P N N N N
10 dB/div Log	Ref Offset 1.5 d Ref 20.00 dB					Mk	r1 2.401 808 GHz -0.058 dBm
10.0							
0.00							
-10.0				profil has	7		
-20.0							
-30.0							
-40.0			mon		Jun	1	
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-60.0 www./m	unolinghandra						Mandelworked Wernerselselw
-70.0							
	.402000 GHz ∛ 100 kHz		#VBV	V 300 kHz		#Sweep	Span 8.000 MHz 100.0 ms (1001 pts)
MSG					STATUS		
			NT 2-DH	5 2402MF	lz No-Hop	ping Em	ission
LXI RL	t <mark>rum Analyzer - Swept</mark> RF 50 Ω	AC		15 2402MH	ALIGNAUTO		12:45:19 PM Mar 09, 2023
LXI RL	trum Analyzer - Swept	AC 000 GHz				Log-Pwr	
Center I Conter I	t <mark>rum Analyzer - Swept</mark> RF 50 Ω	B B B B B B B B B B B B B B B B B B B	SEN: PNO: Fast ↔	SE:PULSE	ALIGN AUTO Avg Type:	Log-Pwr 100/100	12:45:19 PM Mar 09, 2023 TRACE 1 2 3 4 5 6 TYPE M MARAMAN
OV RL Center I	trum Analyzer - Swept	B B B B B B B B B B B B B B B B B B B	SEN: PNO: Fast ↔	SE:PULSE	ALIGN AUTO Avg Type:	Log-Pwr 100/100	12:45:19 PM Mar 09, 2023 TRACE 1 2 3 4 5 6 TYPE M WWWWW DET P NNNN Akr1 2.401 8 GHz
Center I Center I	trum Analyzer - Swept	B B B B B B B B B B B B B B B B B B B	SEN: PNO: Fast ↔	SE:PULSE	ALIGN AUTO Avg Type:	Log-Pwr 100/100	12:45:19 PM Mar09, 2023 TRACE 12:3:4:5:6 TYPE M MANANAN per IP N NN N 1kr1 2.401 8 GHz -0.093 dBm
201 RL Center I 10 dB/div Log 10.0	trum Analyzer - Swept	B B B B B B B B B B B B B B B B B B B	SEN: PNO: Fast ↔	SE:PULSE	ALIGN AUTO Avg Type:	Log-Pwr 100/100	12:45:19 PM Mar 09, 2023 TRACE 1 2 3 4 5 6 TYPE M WWWWW DET P NNNN Akr1 2.401 8 GHz
XI RL Center I I 10 dB/div I 10.0 I 10.0 I 10.0 I -10.0 I -20.0 I	trum Analyzer - Swept RF 50 ග Freq 2.356000 Ref Offset 1.5 d	B B B B B B B B B B B B B B B B B B B	SEN: PNO: Fast ↔	SE:PULSE	ALIGN AUTO Avg Type:	Log-Pwr 100/100	12:45:19 PM Mar09, 2023 TRACE 12:3:4:5:6 TYPE M MANANAN pet P N NN N Akr1 2.401 8 GHz -0.093 dBm
OX RL Center I Center I 10 dB/div Conter I 10.0	trum Analyzer - Swept RF 50 ග Freq 2.356000 Ref Offset 1.5 d	B B B B B B B B B B B B B B B B B B B	SEN: PNO: Fast ↔	SE:PULSE	ALIGN AUTO Avg Type:	Log-Pwr 100/100	12:45:19 PM Mar09, 2023 TRACE 12:3:4:5:6 TYPE M MANANAN pet P N NN N Akr1 2.401 8 GHz -0.093 dBm
Old RL Center I I Log IIII 0.00 IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	trum Analyzer - Swept RF 50 ග Freq 2.356000 Ref Offset 1.5 d	B B B B B B B B B B B B B B B B B B B	SEN Gain:Low	SE:PULSE	ALIGN AUTO Avg Type:	Log-Pwr 100/100	12:45:19 PM Mar09, 2023 TRACE 12:3:4:5:6 TYPE M MANANAN pet P N NN N Akr1 2.401 8 GHz -0.093 dBm
Old RL Center I Center I 10.0	trum Analyzer - Swept RF 90 2 Freq 2.356000 Ref Offset 1.5 d Ref 20.00 dB 	SA AC Image: Constraint of the second	SEN Gain:Low	SE:PULSE Trig: Free Run #Atten: 30 dB	ALIGN AUTO Avg Type:	Log-Pwr 100/100	12:45:19 PM Mar09, 2023 TRACE 12:3 4 5 6 TYPE/MWWWW DET/P N N N N Akr1 2.401 8 GHz -0.093 dBm -0.093 dBm -20.06 dBm -20.06 dBm -20.06 dBm -20.06 dBm
00 RL Center I 10 dB/div og	trum Analyzer - Swept PF 50 0 Freq 2.356000 Ref Offset 1.5 d Ref 20.00 dE 00600 GHz V 100 kHz 10600 GHz 1 f 1 f	SA AC 000 GHz IB 3m 2.401 8 GHz 2.400 0 GHz	SEN PN0: Fast ↔ Gain:Low #VBV 40.093 c -53.280 c -53.280 c	SE:PULSE Trig: Free Run #Atten: 30 dB		Log-Pwr 100/100	12:45:19 PM Mar09, 2023 TRACE 12:3 4 5 6 TYPE M MARON DET P N N N N Akr1 2.401 8 GHz -0.093 dBm -20.08 dBm -20.09 dBm -20.08 dBm -
00/ RL Center I 10 og 10.0 og -0.0 -0.0 -0.0	trum Analyzer - Swept Freq 2.356000 Ref Offset 1.5 d Ref 20.00 dE	SA AC I AC I I 000 GHz I I IB III I III IIII IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	SEN PN0: Fast ↔ Gain:Low #VBV 40.093 c -53.280 c -53.280 c	SE:PULSE Trig: Free Run #Atten: 30 dB		Log-Pwr 100/100	12:45:19 PM Mar09, 2023 TRACE 12:3 4 5 6 TYPE M MARON DET P N N N N Akr1 2.401 8 GHz -0.093 dBm -20.08 dBm -20.09 dBm -20.08 dBm -
001 RL Center I 10 000 10.0 -10.0 -20.0 -30.0 -40.0 -50.0 -60.0 -70.0 Start 2.3 XRES EXP 1 2 3 1 2 3 1 2 3 4 5 6 7 8	trum Analyzer - Swept PF 50 0 Freq 2.356000 Ref Offset 1.5 d Ref 20.00 dE 00600 GHz V 100 kHz 10600 GHz 1 f 1 f	SA AC 000 GHz IB 3m 2.401 8 GHz 2.400 0 GHz	SEN PN0: Fast ↔ Gain:Low #VBV 40.093 c -53.280 c -53.280 c	SE:PULSE Trig: Free Run #Atten: 30 dB		Log-Pwr 100/100	12:45:19 PM Mar09, 2023 TRACE 12:3 4 5 6 TYPE M MARON DET P N N N N Akr1 2.401 8 GHz -0.093 dBm -20.08 dBm -20.09 dBm -20.08 dBm -
00 RL Center I 10 dB/div og - -00 - -10.0 - -20.0 - -30.0 - -40.0 - -30.0 - -40.0 - -50.0 - -80.0 - -70.0 - Start 2.3 - #Res BU - 1 N 3 N 4 N 5 - 6 - 7 8	trum Analyzer - Swept PF 50 0 Freq 2.356000 Ref Offset 1.5 d Ref 20.00 dE 00600 GHz V 100 kHz 10600 GHz 1 f 1 f	SA AC 000 GHz IB 3m 2.401 8 GHz 2.400 0 GHz	SEN PN0: Fast ↔ Gain:Low #VBV 40.093 c -53.280 c -53.280 c	SE:PULSE Trig: Free Run #Atten: 30 dB		Log-Pwr 100/100	12:45:19 PM Mar09, 2023 TRACE 12:3 4 5 6 TYPE M MARON DET P N N N N Akr1 2.401 8 GHz -0.093 dBm -20.08 dBm -20.09 dBm -20.08 dBm -

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	Dunu	- Eager	NVINT Z	-DH5 248	<u>30MHz No-H</u>	opping Re	et i i i
	c <mark>trum Analyzer - Swept</mark> S RF 50Ω A		SE	NSE:PULSE	ALIGNAUTO		12:50:02 PM Mar 09, 2023
	Freq 2.4800000	000 GHz	PNO: Wide +++	. Trig: Free Rui #Atten: 30 dB	Avg Type:	Log-Pwr 100/100	TRACE 1 2 3 4 5 6 TYPE M
10 dB/div Log	Ref Offset 1.5 dE Ref 20.00 dBr					Mkr1	2.479 808 GHz 2.670 dBm
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10.0							
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	2.480000 GHz V 100 kHz		#\/B	W 300 kHz		#Sween 1(Span 8.000 MHz 10.0 ms (1001 pts)
MSG	¥ 100 KH2		#VD	W 300 KHZ	I STATUS	жомеер п	io.o ilis (1001 pts)
	Band Ed	dge NVN	NT 2-DH	15 2480N	/Hz No-Hop	ping Emiss	sion
Agilent Spec	c <mark>trum Analyzer - Swept</mark> S RF 50 Ω A		SE	NSE:PULSE			
							12:50:15 PM Mar 09, 2023
	Freq 2.5260000		PNO: Fast 🔸	Trig: Free Rui #Atten: 30 dB	ALIGNAUTO Avg Type: n Avg Hold: 1		12:50:15 PM Mar 09, 2023 TRACE 1 2 3 4 5 6 TYPE MWWWW DET P N N N N N
10 dB/div	Freq 2.5260000 Ref Offset 1.5 dE Ref 20.00 dB	B	PNO: Fast 🔸	. Trig: Free Ru	Avg Type:	100/100	TRACE 1 2 3 4 5 6 TYPE MWMMMM
10 dB/div Log	Ref Offset 1.5 df	B	PNO: Fast 🔸	. Trig: Free Ru	Avg Type:	100/100	TRACE 123456 TYPE MWWWW DET PNNNN 1 2.479 8 GHz
10.0 0.00	Ref Offset 1.5 df	B	PNO: Fast 🔸	. Trig: Free Ru	Avg Type:	100/100	TRACE 123456 TYPE MWWWW DET PNNNN 1 2.479 8 GHz
Log 10.0	Ref Offset 1.5 df	B	PNO: Fast 🔸	. Trig: Free Ru	Avg Type:	100/100	TRACE 123456 TYPE MWWWW DET PNNNN 1 2.479 8 GHz
Log 10.0	Ref Offset 1.5 df	B	PNO: Fast 🔸	. Trig: Free Ru	Avg Type:	100/100	1 2.479 8 GHz 2.470 dBm
Log 10.0 -10.0 -20.0 -30.0 -40.0 -50.0	Ref Offset 1.5 df	B	PNO: Fast 🔸	. Trig: Free Ru	Avg Type:	100/100	1 2.479 8 GHz 2.470 dBm
10.0 0.00 -10.0 -20.0 -30.0 -40.0	Ref Offset 1.5 df	B	PNO: Fast 🔸	. Trig: Free Ru	Avg Type:	100/100	1 2.479 8 GHz 2.470 dBm
Log 10.0 -10.0 -20.0 -30.0 -40.0 -50.0	Ref Offset 1.5 df	B	PNO: Fast +++	. Trig: Free Ru	Avg Type:		1 2.479 8 GHz 2.470 dBm
Log 10.0 0.00 -10.0 -20.0 -30.0 -40.0 -50.0 -60.0 -70.0 Start 2.4 #Res BV KKK K0004	Ref Offset 1.5 dE Ref 20.00 dBj	×	PNO: Fast +++ FGain:Low #VB	W 300 kHz	Avg Type:		12.479 8 GHz 2.470 dBm
Log 10.0 -10.0 -20.0 -30.0 -30.0 -40.0 -50.0 -70.0 Start 2.4 #Res BV (KKS) MOOS -10.0 -10.0 -10.0 -20.0 -	Ref Offset 1.5 dl Ref 20.00 dBj	X 2.479 8 GHz 2.433 5 GHz 2.500 0 GHz	PNO: Fast ++- Gain:Low #VB	W 300 kHz	Avg Type: Avg Hold: 1	000/100 Mk1	1 2.479 8 GHz 2.470 dBm
Log 10.0 -10.0 -20.0 -20.0 -30.0 -40.0 -40.0 -50.0 -60.0 -60.0 -70.0 Start 2.4 #Res BV MKR MODE 1 N -2 N -2 N -2 -2 -2 -2 -2 -2 -2 -2 -2 -2	Ref Offset 1.5 df Ref 20.00 dBi	2.479 8 GHz 2.483 5 GHz	PNO: Fast ++- Gain:Low #VB	W 300 kHz	Avg Type: Avg Hold: 1	000/100 Mk1	12.479 8 GHz 2.470 dBm
Log 10.0 -10.0 -20.0 -30.0 -30.0 -40.0 -50.0	Ref Offset 1.5 dl Ref 20.00 dBj	X 2.479 8 GHz 2.433 5 GHz 2.500 0 GHz	PNO: Fast ++- Gain:Low #VB	W 300 kHz	Avg Type: Avg Hold: 1	000/100 Mk1	12.479 8 GHz 2.470 dBm
Log 10.0 -10.0 -20.0 -30.0 -40.0 -40.0 -40.0 -40.0 -40.0 -40.0 -50.0 -40.0 -50.0 -50.0 -40.0 -50.0	Ref Offset 1.5 dl Ref 20.00 dBj	X 2.479 8 GHz 2.433 5 GHz 2.500 0 GHz	PNO: Fast ++- Gain:Low #VB	W 300 kHz	Avg Type: Avg Hold: 1	000/100 Mk1	12.479 8 GHz 2.470 dBm



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	Danc	Lugen	IVINI 3-		MHz No-Ho	opping it	ei
Agilent Spect	t <mark>rum Analyzer - Swept</mark> RF 50 Ω		SEN	SE:PULSE	ALIGNAUTO		12:58:33 PM Mar 09, 2023
	Freq 2.402000	000 GHz P	NO: Wide +++ Gain:Low	Trig: Free Run #Atten: 30 dB	Avg Type: L Avg Hold: 10	00/100	TRACE 1 2 3 4 5 6 TYPE M WWWWW DET P N N N N N
10 dB/div Log	Ref Offset 1.5 dl Ref 20.00 dB					Mkr1	2.402 128 GHz -0.205 dBm
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0.00							
-10.0				por h			
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-00.0	(mailtern) Nei sonneathlink.						antalananantanananananananananananananan
-70.0							
	.402000 GHz √ 100 kHz		#VBV	V 300 kHz		#0	Span 8.000 MHz 00.0 ms (1001 pts)
				4 300 KHZ	4	#Sweep 1	00.0 ms (1001 pts)
MSG	Pond E						••• 4
				5 2402MH	-		••• 4
Agilent Spect	Band Ed trum Analyzer - Swept RF 50 2 Freq 2.3560000	SA AC 000 GHz F	NT 3-DH	5 2402MH	-	oing Emis	••• 4
Agilent Spect W RL Center F	trum Analyzer - Swept	8A AC 000 GHz IF IF	NT 3-DH	5 2402MH	Z NO-HOPP ALIGNAUTO Avg Type: I	Ding Emis	12:58:46 PM Mar 09, 2023 TRACE 112:34 5 6 TYPE M Www.
Agilent Spect	trum Analyzer - Swept RF 50 ຊີ Freq 2.3560000	8A AC 000 GHz IF IF	NT 3-DH	5 2402MH	Z NO-HOPP ALIGNAUTO Avg Type: I	Ding Emis	12:58:46 PM Mar 09, 2023 TRACE 12:34 5 6 TYPE M Mar 09, 2023 TRACE 12:34 5 6 TYPE M MAR 09, 2023 TRACE 12:34 5 6 TYPE M MAR 09, 2023
Agilent Spect VXI RL Center F	trum Analyzer - Swept	SA AC 000 GHz IF IF	NT 3-DH	5 2402MH	Z NO-HOPP ALIGNAUTO Avg Type: I	Ding Emis	12:58:46 PM Mar 09, 2023 TRACE 12:34 5 6 TYPE MWWWWW DETP NNNNN cr1 2.402 1 GHz -0.487 dBm
Agilent Spect (M RL Center F 10 dB/div Log 10.0	trum Analyzer - Swept	SA AC 000 GHz IF IF	NT 3-DH	5 2402MH	Z NO-HOPP ALIGNAUTO Avg Type: I	Ding Emis	12:58:46 PM Mar 09, 2023 TRACE 12:34 5 6 TYPE M Mar 09, 2023 TRACE 12:34 5 6 TYPE M MAR 09, 2023 TRACE 12:34 5 6 TYPE M MAR 09, 2023
Agilent Spect (#) RL Center F 10 dB/div Log 10.0 -10.0 -20.0	trum Analyzer - Swept	SA AC 000 GHz IF IF	NT 3-DH	5 2402MH	Z NO-HOPP ALIGNAUTO Avg Type: I	Ding Emis	12:58:46 PM Mar 09, 2023 TRACE 12 3 4 5 6 TYPE MININN DET PINNNN xr1 2.402 1 GHz -0.487 dBm
Agilent Speci od RL Center F 10 dB/div Log 10.0 .00 .10.0 .20.0 .30.0 .40.0	trum Analyzer - Swept	SA AC 000 GHz IF IF	NT 3-DH	5 2402MH	Z NO-HOPP ALIGNAUTO Avg Type: I	Ding Emis	12:58:46 PM Mar 09, 2023 TRACE 12 3 4 5 6 TYPE MININN DET PINNNN xr1 2.402 1 GHz -0.487 dBm
Agtient Spect of RL Center F 10 dB/div Log 10.0 -10.0 -0.0 -0.0 -0.0 -0.0 -0.0 -0.	trum Analyzer - Swept	SA AC 000 GHz IF IF	NO: Fast Gain:Low	5 2402MH	Z NO-HOPP ALIGNAUTO Avg Type: I	og-Pwr 00/100 Mł	12:58:46 PM Mar 09, 2023 TRACE 12:3 4 5 6 TYPE M NNNN DET P NNNN xr1 2.402 1 GHz -0.487 dBm
Agilent Speci of RL Center F 10 dB/div Log 10.0 -10.0 -10.0 -20.0 -20.0 -30.0 -40.0 -40.0 -40.0 -40.0 -50.0	trum Analyzer - Swept RF 50Ω Freq 2.3560000 Ref Offset 1.5 d Ref 20.00 dB 4 4 4 4 4 4 4 4 4 4 4 4 4	SA AC B Sm 	NO: Fast Gain:Low #VBV	5 2402MH	Z NO-HOPP ALIGNAUTO Avg Type: I	oing Emis	12:58:46 PM Mar 09, 2023 TRACE 12:34 5 6 TYPE MINIMAR 09, 2023 TRACE 12:34 5 6 TYPE MINIMAR Cr1 2:402 1 GHz -0.487 dBm
Agient Spec Agient Spec Center F 10 dB/div Log 10.0 .0	trum Analyzer - Swept RF 50 0 Freq 2.35660001 Ref Offset 1.5 d Ref 20.00 dB Under a structure 106000 GHz V 100 kHz 160 SC1 1 f 1 f	5A AC 000 GHz F F F F F F F F F F F F F	IT 3-DH SEN PNO: Fast Gain:Low #VBV #VBV 0.487 c 54.443 c 54.443 c	5 2402MH	Z No-Hopp	oing Emis	12:56:46 PM Mar 09, 2023 TRACE 23 4 5 6 TYPE MINAW NO CIT 2.402 1 GHz -0.487 dBm
Agient Spec (a) RL Center F 10 dB/div Log 10.0 .000 .10.0 .20.0	trum Analyzer - Swept RF 50 2 Freq 2.3560000 Ref Offset 1.5 d Ref 20.00 dB Los de anti- 106000 GHz V 100 kHz Ife SCL 1 f	5A AC B B Sm 2.402 1 GHz 2.400 0 GHZ	IT 3-DH SEN PNO: Fast Gain:Low #VBV #VBV 0.487 c 54.443 c 54.443 c	5 2402MH	Z No-Hopp	oing Emis	12:56:46 PM Mar 09, 2023 TRACE 23 4 5 6 TYPE MINAW NO CIT 2.402 1 GHz -0.487 dBm
Agtient Speci (x) RL Center F 10 dB/div 0 g 10 0 -10 0 -10 0 -10 0 -20 0 -20 0 -30 0 -40 0 -40 0 -40 0 -40 0 -50 0 -40 0 -50 0	trum Analyzer - Swept RF 50 0 Freq 2.35660001 Ref Offset 1.5 d Ref 20.00 dB Under a structure 106000 GHz V 100 kHz 160 SC1 1 f 1 f	5A AC 000 GHz F F F F F F F F F F F F F	IT 3-DH SEN PNO: Fast Gain:Low #VBV #VBV 0.487 c 54.443 c 54.443 c	5 2402MH	Z No-Hopp	oing Emis	12:58:46 PM Mar 09, 2023 TRACE 23 4 5 6 TYPE MINIMIN cr1 2:402 1 GHz -0.487 dBm

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Report No.: STS2301115W07

gilant Spactre	Band Jm Analyzer - Swept S						INCI	
RL	RF 50 Ω A0		SEN	ISE:PULSE	ALIGNAUTO	-		4 PM Mar 09, 2023
enter Fr	eq 2.4800000	Р	NO: Wide +	Trig: Free Run #Atten: 30 dB	Avg Type: L Avg Hold: 10		т	RACE 1 2 3 4 5 TYPE MWWWW DET P N N N N
) dB/div	Ref Offset 1.5 dB Ref 20.00 dBn					М	(r1 2.480 2.	120 GH 537 dBn
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G	Band Ed				tz No-Hopp		p 100.0 m	
G ilent Spectru		A	NT 3-DH		IZ NO-HOPP	oing En	p 100.0 m nission 01:02:5	s (1001 pts
G ilent Spectro R L	Band Ed Im Analyzer - Swept S	A 00 GHz F	NT 3-DH	15 2480MH	Iz No-Hopp	oing En .₀g-₽wr	p 100.0 m nission	7 PM Mar 09, 202 RACE 1 2 3 4 5 TYPE MWWWW
g ilent Spectro RL enter Fr O dB/div	Band Ed Im Analyzer - Swept S RF 50 Ω AG	A C     OO GHz  F  F		15 2480MH RE:PULSE Trig: Free Run	IZ NO-HOPP ALIGNAUTO Avg Type: L	oing En	p 100.0 m nission 01:02:5 T Mkr1 2.4	7 PM Mar 09, 202 RACE 12 3 4 5 TYPE M WARMAN DET P N N N 80 1 GH:
g ilent Spectro RL enter Fr O dB/div	Band Ed m Analyzer - Swept S RF 50 Q AG req 2.5260000	A C     OO GHz  F  F		15 2480MH RE:PULSE Trig: Free Run	IZ NO-HOPP ALIGNAUTO Avg Type: L	oing En	p 100.0 m nission 01:02:5 T Mkr1 2.4	7 PM Mar 09, 202 RACE 12 3 4 5 TYPE M WAR 09, 12 3 4 5 TYPE M WAR 09 DET P N N N 80 1 GH
g RL enter Fr 0 dB/div 0 dB/div	Band Ed m Analyzer - Swept S RF 50 Q AG req 2.5260000	A C     OO GHz  F  F		15 2480MH RE:PULSE Trig: Free Run	IZ NO-HOPP ALIGNAUTO Avg Type: L	oing En	p 100.0 m nission 01:02:5 T Mkr1 2.4	7 PM Mar 09, 202 RACE 12 3 4 5 TYPE M WARMAN DET P N N N 80 1 GH:
ilent Spectri RL enter Fr	Band Ed m Analyzer - Swept S RF 50 Q AG req 2.5260000	A C     OO GHz  F  F		15 2480MH RE:PULSE Trig: Free Run	IZ NO-HOPP ALIGNAUTO Avg Type: L	oing En	p 100.0 m nission 01:02:5 T Mkr1 2.4	s (1001 pts 7 PM Mar 09, 202 RACE 1 2 3 4 5 TYPE MWWWW DET P N N N 80 1 GH: 472 dBn
s ilent Spectro RL enter Fr od B/div og 0.0 0.0 0.0 0.0 0.0	Band Ed m Analyzer - Swept S RF 50 Q AG req 2.5260000	A C     OO GHz  F  F		15 2480MH RE:PULSE Trig: Free Run	IZ NO-HOPP ALIGNAUTO Avg Type: L	oing En	p 100.0 m nission 01:02:5 T Mkr1 2.4	s (1001 pts 7 PM Mar 09, 202 RACE 1 2 3 4 5 TYPE MWWWW DET P N N N 80 1 GH: 472 dBn
G RL RL O O O O O O O O O O O O O	Band Ed m Analyzer - Swept S RF 50 Q AG req 2.5260000	A C     OO GHz  F  F		15 2480MH RE:PULSE Trig: Free Run	IZ NO-HOPP ALIGNAUTO Avg Type: L	oing En	p 100.0 m nission 01:02:5 T Mkr1 2.4	s (1001 pts 7 PM Mar 09, 202 RACE 1 2 3 4 5 TYPE MWWWW DET P N N N 80 1 GH: 472 dBn
G RL RL O O O O O O O O O O O O O	Band Ed m Analyzer - Swept S RF 50 Q AG req 2.5260000	A C		15 2480MH RE:PULSE Trig: Free Run	IZ NO-HOPP ALIGNAUTO Avg Type: L	oing En	p 100.0 m nission 01:02:5 T Mkr1 2.4	s (1001 pts 7 PM Mar 09, 202 RACE 1 2 3 4 5 TYPE MWWWW DET P N N N 80 1 GH: 472 dBn
G RL RL C C C C C C C C C C C C C	Band Ed m Analyzer - Swept S RF 50 Q AG req 2.5260000	A C     OO GHz  F  F		15 2480MH RE:PULSE Trig: Free Run	IZ NO-HOPP ALIGNAUTO Avg Type: L	oing En	p 100.0 m nission 01:02:5 T Mkr1 2.4	s (1001 pts 7 PM Mar 09, 202 RACE 1 2 3 4 5 TYPE MWWWW DET P N N N 80 1 GH: 472 dBn
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G G G G G G G G G G G G G G G G G G G	Band Ec	A 00 GHz F F 8 n - - - - - - - - - - - - -	NT 3-DH SER NO: Fast ↔ Gain:Low	IS 2480MH	ALIGNAUTO ALIGNAUTO Avg Type: L AvgIHoid: 10	og-Pwr borioo ,	01:02:5 T Mkr1 2.4 2. Stop 2. 5 100.0 ms	s (1001 pts 7PM Mar 09, 202 RACE    2 3 4 5 TYPE    WINNN 80 1 GH: 472 dBn 17.46 dB
G     G       RL     Image: Constraint of the sector of t	Band Ec	A 00 GHz F F 8 n 	NT 3-DH SER PNO: Fast Gain:Low #VBI	IS 2480MH	IZ NO-HOPP ALIGNAUTO Avg Type: L	og-Pwr borioo ,	01:02:5 T Mkr1 2.4 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.	s (1001 pts 7PM Mar 09, 2027 RACE   2 3 4 5 0ET P N N N N 80 1 GH: 472 dBn 17.46 dBr
G	Band Ec m Analyzer - Swept S RF   50 Q Ad req 2.52600000 Ref Offset 1.5 dB Ref 20.00 dBm 	A 00 GHz F F F F F F F F F F F F F	NO: Fast →-Gain:Low #VBL ************************************	IS 2480MH	ALIGNAUTO ALIGNAUTO Avg Type: L AvgIHoid: 10	og-Pwr borioo ,	01:02:5 T Mkr1 2.4 2. Stop 2. 5 100.0 ms	s (1001 pts 7PM Mar 09, 202 RACE    2 3 4 5 TYPE    WINNN 80 1 GH: 472 dBn 17.46 dB
is     is       RL     RL       enter Fr     is       0 dB/div     is       1 d     n       1 d     n       1 d     n	Band Ec	A 00 GHz F F F S n 2.480 1 GHz 2.480 1 GHz 2.480 5 GHz	NO: Fast →-Gain:Low #VBL ************************************	IS 2480MH	ALIGNAUTO ALIGNAUTO Avg Type: L AvgIHoid: 10	og Pwr opriod	01:02:5 T Mkr1 2.4 2. Stop 2. 5 100.0 ms	s (1001 pts 7PM Mar 09, 202 RACE   1 2 3 4 5 TYPE   M NN N 80 1 GH: 472 dBn 17.46 dB
G     RL       RL     F       O dB/div     G	Band Ec m Analyzer - Swept S RF   50 Q Ad req 2.52600000 Ref Offset 1.5 dB Ref 20.00 dBm 	A 00 GHz F F F F F F F F F F F F F	NO: Fast →-Gain:Low #VBL ************************************	IS 2480MH	ALIGNAUTO ALIGNAUTO Avg Type: L AvgIHoid: 10	og Pwr opriod	01:02:5 T Mkr1 2.4 2. Stop 2. 5 100.0 ms	s (1001 pts 7 PM Mar 09, 202 RACE   1 2 3 4 5 TYPE   M NN N 80 1 GH 472 dBn 
G G G G G G G G G G G G G G G G G G G	Band Ec m Analyzer - Swept S RF   50 Q Ad req 2.52600000 Ref Offset 1.5 dB Ref 20.00 dBm 	A 00 GHz F F F F F F F F F F F F F	NO: Fast →-Gain:Low #VBL ************************************	IS 2480MH	ALIGNAUTO ALIGNAUTO Avg Type: L AvgIHoid: 10	og Pwr opriod	01:02:5 T Mkr1 2.4 2. Stop 2. 5 100.0 ms	s (1001 pts 7 PM Mar 09, 202 RACE   1 2 3 4 5 TYPE   M NN N 80 1 GH 472 dBn 
G IIIII Spectr RL Penter Fr 0 dB/div 0 dB/d	Band Ec m Analyzer - Swept S RF   50 Q Ad req 2.52600000 Ref Offset 1.5 dB Ref 20.00 dBm 	A 00 GHz F F F F F F F F F F F F F	NO: Fast →-Gain:Low #VBL ************************************	IS 2480MH	ALIGNAUTO ALIGNAUTO Avg Type: L AvgIHoid: 10	og Pwr opriod	01:02:5 T Mkr1 2.4 2. Stop 2. 5 100.0 ms	s (1001 pts 7 PM Mar 09, 202 RACE   1 2 3 4 5 TYPE   M NN N 80 1 GH 472 dBn 

A 1/F, Building B, Zhuoke Science Park, No.190 Chongqing Road, HepingShequ, Fuyong Sub-District, Bao'an District, Shenzhen, Guang Dong, China Tel: +86-755 3686 6288 Fax:+86-755 3686 6277 Http://www.stsapp.com E-mail: sts@stsapp.com



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# 8. Band Edge(Hopping)

		<b>J I I J</b>				
Condition	Mode	Frequency (MHz)	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Hopping	-62.67	<=-20	Pass
NVNT	1-DH5	2480	Hopping	-60.45	<=-20	Pass
NVNT	2-DH5	2402	Hopping	-53.25	<=-20	Pass
NVNT	2-DH5	2480	Hopping	-59.13	<=-20	Pass
NVNT	3-DH5	2402	Hopping	-56.64	<=-20	Pass
NVNT	3-DH5	2480	Hopping	-60.31	<=-20	Pass



Shenzhen STS Test Services Co., Ltd.



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Band E	.dge(Hop	ping) NVN I	1-DH5 24	80MHz Hopp	oing Ref
Agilent Spectrum Analyzer - Swep		SENSE:PULSE	ALIO	SNAUTO	11:06:10 AM Mar 09, 202
enter Freq 2.480000	0000 GHz	NO: Wide 🛶 Trig:	Free Run	Avg Type: Log-Pwr Avg Hold: 10000/10000	TRACE 1 2 3 4 5 TYPE MWWWM DET P N N N
Ref Offset 1.5		FGain:Low #Atte	n: 30 dB	IV	1kr1 2.476 800 GH
0 dB/div Ref 20.00 dl					3.434 dBı
10.0					
0.00		$\square$	$\sim$		
10.0					
20.0	$\vee$	V V			
30.0					
40.0					
50.0				N	
50.0				mmmm	
70.0					
enter 2.480000 GHz					Span 8.000 MH
Res BW 100 kHz		#VBW 300			ep 1.000 ms (1001 pt
	/1.1			STATUS	
		IG) NVNT 1-	DH5 2480	MHz Hopping	g Emission
gilent Spectrum Analyzer - Swep RL RF 50 Ω	AC	SENSE:PULSE	ALIC	NAUTO Avg Type: Log-Pwr	11:06:43 AM Mar 09, 202
Center Freq 2.526000			Free Run n: 30 dB	Avg Hold: 2000/2000	TRACE 1 2 3 4 5 TYPE MWWW DET P N N N
Ref Offset 1.5	dB				Mkr1 2.476 0 GH
0 dB/div Ref 20.00 d	Bm				3.427 dBi
10.0 0					
10.0					-16.57 dE
20.0					
40.0					
50.0 75 <b>2</b> 74	·				
60.0	·3	hallondaes-mit-resonalitationalitation	man and an and a second se	the and the second s	n shapelling permiting the
60.0 70.0	3	g-afense-son g-base-bre-	manya ang ang ang ang ang ang ang ang ang an	dryh-serverski rationardy all transmit (god	n the appendix of the second
60.0 70.0 Start 2.47600 GHz	3	#VBW 300	when the second	ty	
60.0 Start 2.47600 GHz Res BW 100 KHz Res I 100 KHz	× 2.476 0 GHz	Y	KHZ		
60.0 Start 2.47600 GHz #Res BW 100 kHz MKR MODE INC SCU 1 N 1 f 2 N 1 f	× 2.476 0 GHz 2.483 5 GHz 2.500 0 GHz	3.427 dBm -59.278 dBm -57.448 dBm			ep 9.600 ms (1001 pt
60.0 Start 2.47600 GHz #Res BW 100 kHz Mice Model 169 Sci N 1 f 2 N 1 f 3 N 1 f 3 N 1 f 4 N 1 f 5	2.483 5 GHz	3.427 dBm -59.278 dBm -57.448 dBm			ep 9.600 ms (1001 pt
2 N 1 f 3 N 1 f 4 N 1 f 5 6 7 8	2.483 5 GHz 2.500 0 GHz	3.427 dBm -59.278 dBm -57.448 dBm			Stop 2.57600 GH ep 9.600 ms (1001 pt: FUNCTION VALUE
60.0 Start 2.47600 GHz Res BW 100 kHz KK MODE FRC SCL 1 N 1 f 3 N 1 f 3 N 1 f 4 N 1 f 5 6 6 7 7 8 9 9	2.483 5 GHz 2.500 0 GHz	3.427 dBm -59.278 dBm -57.448 dBm			ep 9.600 ms (1001 pt
60.0 CH2 Start 2.47600 GH2 Res BW 100 kH2 VIA MOD FRO SCU 1 N 1 F 2 N 1 F 3 N 1 F 4 N 1 F 5 G 7 B	2.483 5 GHz 2.500 0 GHz	3.427 dBm -59.278 dBm -57.448 dBm	FUNCTION FUNCTIO		ep 9.600 ms (1001 pt

## Band Edge(Honning) NI/NIT 1-DH5 2/20MHz Honning Per

Shenzhen STS Test Services Co., Ltd.

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	B	and Ed	ge(Hop	ping) N	IVNI 2	-DH5 2	402MH	z поррі	ing Ref	
Agilent Spec	ctrum Ana RF	<mark>ilyzer - Swept S</mark> 50 Ω AC		SE	NSE:PULSE	۵	LIGNAUTO		12:52:56	5 PM Mar 09, 2023
		2.4020000	Р	NO: Wide 🔸 Gain:Low	. Trig: Free #Atten: 30	Run	Avg Type: Avg Hold: 1	Log-Pwr 00/100	TF	RACE 123456 TYPE MWWWWW DET PNNNNN
10 dB/div Log		Offset 1.5 dB 20.00 dBm	1					MI		096 GHz 916 dBm
10.0										
										1
0.00					6				0.00	
-10.0					N nA	MM				11/2
-20.0										. 4
-30.0										N L
-40.0				٨	ΥΥ			n A		<u> </u>
-50.0			n n	MAM						\
-60.0	ምላሌ ቢ	Anna	m	N W W						
-70.0		¥ •••• (								
Center 2 #Res BV				#VB	W 300 kH:	7		Swee		8.000 MHz (1001 pts)
						<u> </u>		01100	5 1.000 ms	5 (1001 pts)
MSG	_					_	<b>STATUS</b>			
			(Hoppin	g) NVN	IT 2-DI	_	-			,
Agilent Spec	c <b>trum Ana</b> RF	a <mark>lyzer - Swept S</mark> 50 Ω AC	A :		IT 2-DI	H5 2402	2MHz H	lopping	Emissi	ON
Agilent Spec	c <b>trum Ana</b> RF	lyzer - Swept S	00 GHz			H5 2402	2MHz H	lopping	Emissi	on
Agilent Spec (X) RL Center 10 dB/div	Ctrum Ana RF Freq 2 Ref	a <mark>lyzer - Swept S</mark> 50 Ω AC	A 00 GHz F IF	PNO: Fast ↔	NSE:PULSE	H5 2402	2MHz H	Opping Log-Pwr 500/1500	Emissi 12:53:21 Tr Mkr1 2.4	ON LPM Mar 09, 2023 RACE 1 2 3 4 5 6 TYPE IM WARMAN
Agilent Spec XI RL Center	Ctrum Ana RF Freq 2 Ref	Nyzer - Swept S, 50 Ω AC 2.3560000 Offset 1.5 dB	A 00 GHz F IF	PNO: Fast ↔	NSE:PULSE	H5 2402	2MHz H	Opping Log-Pwr 500/1500	Emissi 12:53:21 Tr Mkr1 2.4	ON PM Mar 09, 2023 RACE 1 2 3 4 5 6 TYPE M WARMAN DET P N N N N 02 8 GHz
Agilent Spec V RL Center	Ctrum Ana RF Freq 2 Ref	Nyzer - Swept S, 50 Ω AC 2.3560000 Offset 1.5 dB	A 00 GHz F IF	PNO: Fast ↔	NSE:PULSE	H5 2402	2MHz H	Opping Log-Pwr 500/1500	Emissi 12:53:21 Tr Mkr1 2.4	ON PM Mar 09, 2023 RACE 1 2 3 4 5 6 TYPE M WARMAN DET P N N N N 02 8 GHz
Agilent Spec (g) RL Center 10 dB/div Log 10.0 -10.0 -20.0	Ctrum Ana RF Freq 2 Ref	Nyzer - Swept S, 50 Ω AC 2.3560000 Offset 1.5 dB	A 00 GHz F IF	PNO: Fast ↔	NSE:PULSE	H5 2402	2MHz H	Opping Log-Pwr 500/1500	Emissi 12:53:21 Tr Mkr1 2.4	ON PM Mar 09, 2023 RACE 1 2 3 4 5 6 TYPE M WARMAN DET P N N N N 02 8 GHz
Agilent Spec XI RL Center 10 dB/div Log 10.0 -10.0	Ctrum Ana RF Freq 2 Ref	Nyzer - Swept S, 50 Ω AC 2.3560000 Offset 1.5 dB	A 00 GHz F IF	PNO: Fast ↔	NSE:PULSE	H5 2402	2MHz H	Opping Log-Pwr 500/1500	Emissi 12:53:21 Tr Mkr1 2.4	ON PM Mar 09, 2023 TYPE M M M M M M M M M M M M M M M M M M M
Agilent Spec (y) RL Center 10 dB/div Log 10.0 -0.00 -20.0 -30.0	Ctrum Ana RF Freq 2 Ref	Nyzer - Swept S, 50 Ω AC 2.3560000 Offset 1.5 dB	A 00 GHz F IF	PNO: Fast ↔	NSE:PULSE	H5 2402	2MHz H	Opping Log-Pwr 500/1500	Emissi 12:53:21 Tr Mkr1 2.4	ON PM Mar 09, 2023 TYPE M M M M M M M M M M M M M M M M M M M
Agilent Spec ov RL Center 10 dB/div Log 10.0 -10.0 -20.0 -30.0 -40.0 -50.0	Ctrum Ana RF Freq 2 Ref	Nyzer - Swept S, 50 Ω AC 2.3560000 Offset 1.5 dB	A 00 GHz F IF	PNO: Fast ↔	NSE:PULSE	H5 2402	2MHz H	Opping Log-Pwr 500/1500	Emissi 12:53:22 Mkr1 2.4 -1.	ON IPM Mar 09, 2023 Mace 12 3 4 5 6 TYPE M MARMON D2 8 GHz 258 dBm 1 258 dBm 1 258 dBm 2 2 2 2 2 2 2 2 2 2 2 2 2
Agilent Spec XX RL Center 10.0 dB/div Log 10.0 -10.0 -20.0 -30.0 -40.0 -50.0 -60.0	Freq 2 Ref Ref 306600 (	Nyzer - Swept S. 50 Ω AC 2.3560000 Offset 1.5 dB 20.00 dBn	A 00 GHz F IF	SE NO: Fast Gain:Low	NSE:PULSE	H5 240:	2MHz H	Log-Pwr 500/1500	Emissi	ON PM Mar 09, 2023 RACE 1 2 3 4 5 6 TYPE M MARMAN DET P N N N N 02 8 GHz
Agilent Spec 24 RL Center 10 dB/div 0 00 -10.0 -20.0 -30.0 -30.0 -40.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -	Ref Ref 306000 ( 100	Nyzer - Swept S. 50 0 Ac 2.3560000 Offset 1.5 dB 20.00 dBn	A	SE NO: Fast Gain:Low	WSE:PULSE	H5 2402	2MHz H	Log-Pwr 500/1500	Emissi	ON PMMar 09, 2023 PACE 12 3 4 5 6 TYPE MANNAN 02 8 GHz 258 dBm 02 92 dB
Agilent Spec Old RL Center 10.0 dB/div 0.00 -10.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.	Ctrum Ana RF Freq 2 Ref Ref 306000 ( Af 100   1 f	Nyzer - Swept S. 50 0 Ac 2.3560000 Offset 1.5 dB 20.00 dBn	00 GHz F IF 01 11 11 11 11 11 11 11 11 11	FN0: Fast Gain:Low #VB #VB -1.258 -58.451 -59.407	WSE:PULSE	H5 2402	2MHz H Avg Type: AvgHold: 1	Log-Pwr 500/1500	Emissi	ON PMMar09, 2023 PACE 12 3 4 5 6 TYPE MANNAN 02 8 GHz 258 dBm 02 92 dBm
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Agilent Spec (X) RL Center 10 dB/div Log 10.0 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .0000 .000 .000 .000	Ctrum Ana RF Freq 2 Ref Ref 306000 ( Af 100   1 f	Nyzer - Swept S. 50 0 Ac 2.3560000 Offset 1.5 dB 20.00 dBn	00 GHz F IF 01 11 11 11 11 11 11 11 11 11	FN0: Fast Gain:Low #VB #VB -1.258 -58.451 -59.407	WS:PULSE	H5 2402	2MHz H Avg Type: AvgHold: 1	Log-Pwr 500/1500	Emissi	ON PMMar09, 2023 PACE 12 3 4 5 6 TYPE MANNAN 02 8 GHz 258 dBm 02 92 dBm
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### Report No.: STS2301115W07

	Edge(Hop	ping) NVN			Teppin	9
ilent Spectrum Analyzer - S RL RF 50 enter Freq 2.4800	Ω AC D00000 GHz PI		9E g: Free Run ten: 30 dB	ALIGNAUTO Avg Type: Log- Avg Hold: 2000/2		12:55:14 PM Mar 09, 20 TRACE 1 2 3 4 5 TYPE M WWWW DET P N N N
Ref Offset 1 0 dB/div Ref 20.00					Mkr	1 2.476 000 GH 2.621 dB
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10.0 1						
DOD WWW WWW	mon	mm	m Mm			
10.0	•	<u>v</u> <u>v</u>	• · · ·			
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60.0					rh, ry rh	manphon
70.0						
enter 2.480000 GH						Span 8.000 Mł
Band Ec	lge(Hoppin	#vвw зо g) NVNT 2		Kostatus 180MHz Hop		1.000 ms (1001 pt
Band Ec gilent Spectrum Analyzer - S RL RF 50	Ige(Hoppin wept SA & AC D D00000 GHz	g) NVNT 2 sense:pul NO: Fast → Trig	-DH5 24	-	ping E	1.000 ms (1001 pt
gilent Spectrum Analyzer - S RL RF 50 Center Freq 2.5260 Ref Offset 2 0 dB/div Ref 20.00	Ige(Hoppin wept SA 2 AC D00000 GHz I.5 dB	g) NVNT 2 sense:pul NO: Fast → Trit	-DH5 24 ≆∣ g: Free Run		ping E	1.000 ms (1001 pt Emission 12:55:39 PM Mar 09, 20 TRACE 11 2 3 4 1 TRACE 11 2 3 4 1
Band Ec Band Ec Bilent Spectrum Analyzer - S RL RF 50 center Freq 2.5260 0 dB/div Ref 0ffset 7 Ref 20.000	Ige(Hoppin wept SA 2 AC D00000 GHz I.5 dB	g) NVNT 2 sense:pul NO: Fast → Trig	-DH5 24 ≆∣ g: Free Run		ping E	1.000 ms (1001 pt Emission 12:55:39 PM Mar 09, 20 TRACE [] 2 3 4 TRACE [] 3 3 TRACE []
Band Ec Band Ec glent Spectrum Analyzer - S RL RF 50 enter Freq 2.5260 0 dB/div Ref Offset 7 Ref 20.00	Ige(Hoppin wept SA 2 AC D00000 GHz I.5 dB	g) NVNT 2 sense:pul NO: Fast → Trig	-DH5 24 ≆∣ g: Free Run		ping E	1.000 ms (1001 pt Emission 12:55:39 PM Mar 09, 20 TRACE 1 2 3 4 TYPE M WAR DET P NN NI kr1 2.479 1 GH 0.721 dB
Band Ec Band Ec Bient Spectrum Analyzer - S RL RF 50 enter Freq 2.5260 0 dB/div Ref Offset 7 Ref 20.00	Ige(Hoppin wept SA 2 AC D00000 GHz I.5 dB	g) NVNT 2 sense:pul NO: Fast → Trig	-DH5 24 ≆∣ g: Free Run		ping E	1.000 ms (1001 pt Emission 12:55:39 PM Mar 09, 20 TRACE [] 2 3 4 TRACE [] 3 3 TRACE []
Band Ec Band Ec Silent Spectrum Analyzer - S RL RL RF 50 center Freq 2.5266 0 dB/div Ref Offset 7 Ref Offset 7 Ref 20.00 0 dB/div Ref 20.0	Ige(Hoppin wept SA 2 AC D00000 GHz I.5 dB	g) NVNT 2 sense:pul NO: Fast → Trig	-DH5 24 ≆∣ g: Free Run		ping E	1.000 ms (1001 pt Emission 12:55:39 PM Mar 09, 20 TRACE 1 2 3 4 TYPE M WAR DET P NN NI kr1 2.479 1 GH 0.721 dB
Band Ec Band Ec glent Spectrum Analyzer - S RL RF 50 center Freq 2.5260 0 dB/div Ref Offset - Ref Offset - Ref 20.000 0 dD - 0 dD -	Ige(Hoppin wept SA 2 AC D00000 GHz I.5 dB	g) NVNT 2 sense:pul NO: Fast → Trig	-DH5 24 ≆∣ g: Free Run		ping E	1.000 ms (1001 pt Emission 12:55:39 PM Mar 09, 20 TRACE 1 2 3 4 TYPE M WAR DET P NN NI kr1 2.479 1 GH 0.721 dB
Band Ec           RL         RF         50           center Freq 2.5260         Ref Offset 1         50           0 dB/div         Ref Offset 20.000         1           0 dB/div         Ref 20.000         1           0 dB/div         1         1           0 div         1         1           0 div <td>Ige(Hoppin wept SA 2 AC D00000 GHz I.5 dB</td> <td>g) NVNT 2 sense:pul NO: Fast → Trig</td> <td>E                                      </td> <td></td> <td>Pwr 1500 M</td> <td>1.000 ms (1001 pt Emission 12:55:39 PM Mar 09, 20 TRACE 1 2 3 4 TYPE M WAR DET P NN NI kr1 2.479 1 GH 0.721 dB</td>	Ige(Hoppin wept SA 2 AC D00000 GHz I.5 dB	g) NVNT 2 sense:pul NO: Fast → Trig	E		Pwr 1500 M	1.000 ms (1001 pt Emission 12:55:39 PM Mar 09, 20 TRACE 1 2 3 4 TYPE M WAR DET P NN NI kr1 2.479 1 GH 0.721 dB
Ref         Offset           0 dB/div         Ref         Offset           0 dB/div         Ref         2.5260           0 dB/div         Ref         0.00           0 dB/div         Ref         2.5260           0 dB/div         Ref         0.00           0 dB/div         Ref         2.5260	Ige(Hoppin wept SA 2 AC 000000 GHz P I.5 dB 0 dBm	g) NVNT 2	-DH5 24		Pwr 1500 M Sweep	1.000 ms (1001 pt Emission 12:5:39 PM Mar 09, 20 TRACE [] 2:3 4 TYPE Mar 00 TRACE [] 2:3 4 TYPE TRACE [] 2:3 4 TYPE [] 2:3 4 TYP
Band Ec           RL         RF         50           enter Freq 2.5266         Sef Offset         50           0 dB/div         Ref Offset         50           0 dB/div         Ref 2.5266         Sef 2.5266           0 dB/div         Ref 0.005         Sef 2.5266           0 dB/div         Ref 0.015         Sef 2.5266           0 d0	Ige(Hoppin wept SA 2 AC 1.5 dB 0 dBm	g) NVNT 2	-DH5 24	ALIGNAUTO AVG Type: Log- Avg Hold: 1500/	Pwr 1500 M Sweep	1.000 ms (1001 pt Emission 12:55:39 PM Mar 09, 20 TRACE [] 2 3 4 TYPE [] Mundation 0.721 dB 0.721 dB 0
Band Ec Sient Spectrum Analyzer - S RL BF 50 Center Freq 2.5260 Conter Freq 2.5260	Ige(Hoppin wept SA 2 AC 0 000000 GHz F 1.5 dB 0 dBm 4 3 2.479 1 GHz 2.483 5 GHz 2.483 5 GHz 2.483 5 GHz 2.483 5 GHz	g) NVNT 2 SENSE PUL NO: Fast → Trin Gain:Low #At 2 2 3 4 4 4 4 4 4 4 4 4 4 4 4 4	-DH5 24	ALIGNAUTO AVG Type: Log- Avg Hold: 1500/	Pwr 1500 M Sweep	1.000 ms (1001 pt Emission 12:55:39 PM Mar 09, 20 TRACE [] 2 3 4 TYPE [] Mundation 0.721 dB 0.721 dB 0
Band Ec Sient Spectrum Analyzer - S RL RF 50 enter Freq 2.5260 0 dB/div 0 dB/div 0 dB/div 0 dB/div 0 dB/div 0 dB/div 0 dB/div 0 dB/div 1	Ige(Hoppin wept SA 2 AC 0 000000 GHz F 1.5 dB 0 dBm 4 3 2.479 1 GHz 2.483 5 GHz 2.483 5 GHz 2.483 5 GHz 2.483 5 GHz	g) NVNT 2 SENSE PUL NO: Fast → Trin Gain:Low #At 2 2 3 4 4 4 4 4 4 4 4 4 4 4 4 4	-DH5 24	ALIGNAUTO AVG Type: Log- Avg Hold: 1500/	Pwr 1500 M Sweep	1.000 ms (1001 pt Emission 12:55:39 PM Mar 09, 20 TRACE [] 2 3 4 TYPE [] Mundation 0.721 dB 0.721 dB 0
Band Ec Plent Spectrum Analyzer - S RL RF 90 enter Freq 2.5266 Ref Offset - 0 dB/div Ref Offset - 1 - 0 dB/div Ref Offset - 1 - 0 dB/div Ref Offset - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	Ige(Hoppin wept SA 2 AC 0 000000 GHz F 1.5 dB 0 dBm 4 3 2.479 1 GHz 2.483 5 GHz 2.483 5 GHz 2.483 5 GHz 2.483 5 GHz	g) NVNT 2 SENSE PUL NO: Fast → Trin Gain:Low #At 2 2 3 4 4 4 4 4 4 4 4 4 4 4 4 4	-DH5 24	ALIGNAUTO AVG Type: Log- Avg Hold: 1500/	Pwr 1500 M Sweep	1.000 ms (1001 pt Emission 12:55:39 PM Mar 09, 20 TRACE [] 2 3 4 TYPE [] Mundation 0.721 dB 0.721 dB 0

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### Report No.: STS2301115W07

Band	Edge(Hop	ping) NVN	T 3-DH	5 2402MH	z Hopping	l Ref
gilent Spectrum Analyzer - 9 RL RF 50	Swept SA )Ω AC	SENSE:PUL	~	ALIGNAUTO		01:08:47 PM Mar 09, 202
Center Freq 2.402	000000 GHz P	NO: Wide 🛶 Trig	r:Free Run en: 30 dB	Avg Type:	Log-Pwr 10000/10000	TRACE 1 2 3 4 5 TYPE MWWW DET P N N N
Ref Offset	1.5 dB				Mkr1	2.402 128 GH -0.152 dBi
0 dB/div Ref 20.00						
10.0						
10.0			A1			
D.00			ANX -	<u>م (</u>	M	<u> </u>
10.0			w" h	monthing	m har	me sporter
		M				
20.0						
80.0						
40.0	1	mmmm				
50.0						
manna	monthand					
50.0 <b></b>						
70.0						
enter 2.402000 GH Res BW 100 kHz	z	#VBW 30	) 647		Swoon 1	Span 8.000 MH
		#VBVV J0		STATUS	Sweep I	.000 ms (1001 pt
Band Ec	dge(Hoppin			-	lopping E	mission
gilent Spectrum Analyzer - 9		9/11/11/0	-D115 2			11331011
RL RF 50	DΩ AC	SENSE:PUL	Æ	ALIGNAUTO	Les Dum	01:09:20 PM Mar 09, 202
enter Freq 2.356	P		: Free Run en: 30 dB	Avg Type: Avg Hold: 2	2000/2000	TRACE 1 2 3 4 5 TYPE MWWW DET P N N N
Ref Offset		Gam.Low			Mk	r1 2.402 1 GH
0 dB/div Ref 20.00						-1.350 dBr
10.0						1
0.00						
20.0						-29.15 dt
30.0						
40.0						pd
50.0				\ <b>4</b>		$\sqrt{3}$
50.0	hanna a tha tha tha tha tha tha tha tha tha	bethore wonter that here	an a	naga sa	and the second	Wenny grants
/0.0						
Start 2.30600 GHz Res BW 100 kHz		#VBW 30	) kHz			Stop 2.40600 GH .600 ms (1001 pts
IKR MODE TRC SCL	x	Y	FUNCTION	FUNCTION WIDTH	-	DN VALUE
1 N 1 f 2 N 1 f	2.402 1 GHz 2.400 0 GHz	-1.350 dBm -57.108 dBm				
3 N 1 f 4 N 1 f	2.390 0 GHz 2.370 9 GHz	-59.522 dBm -56.799 dBm				
5 6						
6 7 8 9 10						
						>
· · · · · · · · · · · · · · · · · · ·						

Band Edge(Hopping) NVNT 3-DH5 2402MHz Hopping Ref

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### Report No.: STS2301115W07

		ping) NVN	⁻ 3-DH5	2480MHz Hop	ping Ref
gilent Spectrum Analyzer - Swe RL RF 50Ω Center Freq 2.48000	AC 0000 GHz PI		Free Run en: 30 dB	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10000/10000	01:15:24 PM Mar09, 202 TRACE 1 2 3 4 5 TYPE M WWWW DET P N N N N
Ref Offset 1.5	dB	Guilleon			Mkr1 2.476 128 GH 3.569 dBr
10 dB/div Ref 20.00 d	Bm				5.569 dBi
10.0					
0.00	<u></u>	ለ ማኅ			
10.0	www.www	m hr	m. my		
20.0					
30.0				ham	
40.0					
50.0					wh
50.0					" hand marken me
70.0					
enter 2.480000 GHz Res BW 100 kHz		#VBW 300	kHz	Swe	Span 8.000 MH eep 1.000 ms (1001 pt
SG				<b>K</b> STATUS	
2		g) NVNT 3-	DH5 24	80MHz Hoppin	g Emission
gilent Spectrum Analyzer - Swe RL RF 50 Ω Center Freq 2.52600	AC	SENSE:PULS		ALIGNAUTO Avg Type: Log-Pwr	01:15:57 PM Mar 09, 202 TRACE 1 2 3 4 5
senter Freq 2.52000	Р	NO: Fast 🛶 Trig: Gain:Low #Atte	Free Run en: 30 dB	Avg Hold: 2000/2000	TYPE MWWWW DET P N N N N
Ref Offset 1.5 0 dB/div Ref 20.00 d					Mkr1 2.476 0 GH 1.574 dBr
.0g					
0.00					
20.0					-16.43 dE
30.0					
40.0 50.0					
60.0 <b>Winnhorst</b>	normen Variation	eneres when a property and	when have been	matter and the second	dan ten market and a second second second second
70.0 Start 2.47600 GHz					Stop 2.57600 GH
#Res BW 100 kHz		#VBW 300			eep 9.600 ms (1001 pts
MKR MODE TRC SCL 1 N 1 f 2 N 1 f	2.476 0 GHz	1.574 dBm	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
2 N 1 f 3 N 1 f 4 N 1 f	2.483 5 GHz 2.500 0 GHz 2.490 7 GHz	-57.979 dBm -58.315 dBm -56.747 dBm			
5 6 7 8					
9					
10					

## Band Edge(Hopping) NVNT 3-DH5 2480MHz Hopping Ref

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## 9. Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	-44.59	<=-20	Pass
NVNT	1-DH5	2441	-47.74	<=-20	Pass
NVNT	1-DH5	2480	-48.09	<=-20	Pass
NVNT	2-DH5	2402	-45.59	<=-20	Pass
NVNT	2-DH5	2441	-47.98	<=-20	Pass
NVNT	2-DH5	2480	-48.34	<=-20	Pass
NVNT	3-DH5	2402	-45.38	<=-20	Pass
NVNT	3-DH5	2441	-47.72	<=-20	Pass
NVNT	3-DH5	2480	-47.05	<=-20	Pass



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e <mark>nt Spectrum Analyzer - Sw</mark> R L RF 50 Ω	AC	SENSE	:PULSE	ALIGNAUTO	10:46:04 AM N	4ar 09, 20
nter Freq 2.40200	PI	NO: Wide 🔸	Trig: Free Run Atten: 30 dB	Avg Type: Log-Pv Avg Hold: 100/100	TYPE	1234 MW///// PNNN
Ref Offset 1.4 dB/div Ref 20.00 (					Mkr1 2.402 120 -0.18	
0				<u>1</u>		
0						
0						
0						
•						
						-
0						
0						
nter 2.4020000 GH	Z				0	00 MI
	-				Span 1.5	
es BW 100 kHz		#VBW	300 kHz		span 1.5 #Sweep 1.000 s (10	
				402MHz Emis	#Sweep 1.000 s (1)	
ent Spectrum Analyzer - Sw	Tx. Spurio	us NVNT	1-DH5 2	-	#Sweep 1.000 s (10 SSION	001 pt
ent Spectrum Analyzer - Sw	Tx. Spurio (PL SA AC     000000 GHz P		T 1-DH5 2	402MHz Emis	#Sweep 1.000 s (10 SSION 10:46:25 AMM wr TRACE TYPE	001 pt
ent Spectrum Analyzer - Sw RL RF 50 Ω nter Freq 13.2650	Tx. Spurio ept SA AC     000000 GHz P IFI	US NVNT	<b>1-DH5 2</b>	402MHz Emis	#Sweep 1.000 s (10 SSION Wr TRACE DET Mkr1 2.401	001 pt 12 3 4 5 MWWW P N N N 7 GH
ent Spectrum Analyzer - 5w RL RF 50 Ω nter Freq 13.2650 Ref Offset 1. dB/div Ref 20.00	Tx. Spurio (PT SA (AC) (D000000 GHz (F 5 dB		T 1-DH5 2	402MHz Emis	#Sweep 1.000 s (10 SSION Wr TRACE DET Mkr1 2.401	4ar09, 20 1 2 3 4 5 M WWW P N N N 1
ent Spectrum Analyzer - Sw RL RF 50 Ω nter Freq 13.2650 Ref Offset 1. dB/div Ref 20.00	Tx. Spurio (PT SA (AC) (D000000 GHz (F 5 dB		T 1-DH5 2	402MHz Emis	#Sweep 1.000 s (10 SSION Wr TRACE DET Mkr1 2.401	001 pt 12 3 4 5 MWWW P N N N 7 GH
ent Spectrum Analyzer - 5w RL RF 50 Ω nter Freq 13.2650 dB/div Ref Offset 1. dB/div Ref 20.00	Tx. Spurio (PT SA (AC) (D000000 GHz (F 5 dB		T 1-DH5 2	402MHz Emis	#Sweep 1.000 s (10 SSION Wr TRACE DET Mkr1 2.401	001 pt 12 3 4 5 MWWW P N N N 7 GH
ent Spectrum Analyzer - 5w RL RF 50 Ω nter Freq 13.2650 dB/div Ref Offset 1. dB/div Ref 20.00	Tx. Spurio (PT SA (AC) (D000000 GHz (F 5 dB		T 1-DH5 2	402MHz Emis	#Sweep 1.000 s (10 SSION Wr TRACE DET Mkr1 2.401	12 3 4 5 M 2009, 200 1 2 3 4 5 M 200 P N N N 7 GH 5 dBr
ent Spectrum Analyzer - 5w RL RF 50 Ω nter Freq 13.2651 Ref Offset 1. dB/div Ref 20.00 0 0 0 0 0 0 0 0 0 0 0 0	Tx. Spurio (PT SA (AC) (D000000 GHz (F 5 dB		T 1-DH5 2	402MHz Emis	#Sweep 1.000 s (10 SSION Wr TRACE DET Mkr1 2.401	12 3 4 5 M 2009, 200 1 2 3 4 5 M 200 P N N N 7 GH 5 dBr
ent Spectrum Analyzer - 5w RL RF 50 Ω nter Freq 13.2651 Ref Offset 1. dB/dlv Ref 20.00	Tx. Spurio (PT SA (AC) (D000000 GHz (F 5 dB		T 1-DH5 2	402MHz Emis	#Sweep 1.000 s (10 SSION Wr TRACE DET Mkr1 2.401	Aar 09, 20 1 2 3 4 3 MWWW P N N N 7 GH 5 dBr -20.19 dl
ent Spectrum Analyzer - 5w RL RF 50 Ω nter Freq 13.2651 Ref Offset 1: dB/dlv Ref 20.00 0 0 0 0 0 0 0 0 0 0 0 0	Tx. Spurio (PT SA (AC) (D000000 GHz (F 5 dB		T 1-DH5 2	402MHz Emis	#Sweep 1.000 s (10 SSION 10:46:25 AMA NT TRACE TYCE TYCE 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0.29( 0)	4≠09,20 1234 7 GH -2019¢
ent Spectrum Analyzer - 5w RL RF 50 Ω nter Freq 13.2651 Ref Offset 1: dB/div Ref 20.00 0 0 0 0 0 0 0 0 0 0 0 0	Tx. Spurio (PT SA (AC) (D000000 GHz (F 5 dB	US NVNT	T 1-DH5 2	402MHz Emis	#Sweep 1.000 s (10 SSION Wr TRACE DET Mkr1 2.401	4ar 09, 20 12 3 4 3 MMMM 7 GH 5 dB1 -2019 d ↓2 50 GH
ent Spectrum Analyzer - Sw RL RF 50 Ω nter Freq 13.2650 Ref Offset 1. dB/div Ref 20.00 0 0 0 0 0 0 0 0 0 0 0 0	Tx. Spurio	US NVNT	Trig: Free Run Atten: 30 dB	402MHz Emis	#Sweep 1.000 s (11 SSION 10:45:25 AMM NT TRACE TYPE 0.295 Mkr1 2.401 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.295 0.2	Aarooy, 200 112 31 47 P NN N1 7 GH 5 dB1 -2019 dB -2019 dB
ent Spectrum Analyzer - Sw RL RF 50 Ω nter Freq 13.2650 Ref Offset 1: dB/div Ref 20.00 9 0 0 0 0 0 0 0 0 0 0 0 0 0	Tx. Spurio AC DO00000 GHz P F 5 dB dBm AC P F 5 dB dBm AC P F 5 dB C C C C C C C C C C C C C	US NVNT SENSE NO: Fast →→ Gain:Low 5 4 VBW 0.295 dE -44.781 dB	Trig: Free Run Atten: 30 dB	402MHz Emis	#Sweep 1.000 s (11 SSION SSION Mr TRACE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE	4ar 09, 20 12 3 4 3 MMMM 7 GH 5 dB1 -2019 d ↓2 50 GH
ent Spectrum Analyzer - Sw RL RF 50 Ω nter Freq 13.2650 dB/div Ref Offset 1. dB/div Ref 20.00 0 0 0 0 0 0 0 0 0 0 0 0	Tx. Spurio PD 54 AC P FF 5 dB dBm 4 4 2.4017 GHz	US NVNT SENSE NO: Fast ↔ Gain:Low 5	Trig: Free Run Atten: 30 dB	402MHz Emis	#Sweep 1.000 s (11 SSION SSION Mr TRACE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE	4ar 09, 20 12 3 4 3 MMMM 7 GH 5 dB1 -2019 d ↓2 50 GH
ent Spectrum Analyzer - Sw RL RF 50 Q nter Freq 13.2651 Ref Offset 1: dB/div Ref 20.00 0 0 0 0 0 0 0 0 0 0 0 0	Tx. Spurio AC DO0000 GHz P IF 5 dB dBm 3 4 2.401 7 GHz 2.5.472 1 GHz 4.965 2 GHz 7.236 0 GHz	US NVNT SENSE NO: Fast →- Gain:Low 5 5 #VBW 4 0.295 dE -44.781 dE -55.872 dE -55.872 dE	Trig: Free Run Atten: 30 dB	402MHz Emis	#Sweep 1.000 s (11 SSION SSION Mr TRACE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE TYCE	4ar 09, 20 12 3 4 3 MMMM 7 GH 5 dB1 -2019 d ↓2 50 GH



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	rum Analyzer - Swept SA				10 10 00 1111 00 000
enter F	RF 50 Ω AC Treq 2.441000000 GHz	PNO: Wide	NSE:PULSE Trig: Free Run Atten: 30 dB	ALIGNAUTO Avg Type: Log-Pw Avg Hold: 100/100	10:49:39 AM Mar 09, 202 TRACE 1 2 3 4 5 TYPE M MMMMM DET P N N N
0 dB/div	Ref Offset 1.5 dB Ref 20.00 dBm				Mkr1 2.441 120 0 GH 3.315 dBr
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Res BW	4410000 GHz 100 kHz Tx Spur		w 300 кнz JT 1-DH5 2	STATUS	Sweep 100.0 ms (1001 pt
Res BW G gilent Spect R L	100 kHz	rious NVN	NT 1-DH5 2	441MHz Emis	Sweep 100.0 ms (1001 pts Sision 10:49:45 AM Mar 09, 202 rr TRACE
Res BW sg gilent Spect R L	TX. Spur	rious NVN	IT 1-DH5 2	441MHz Emis	Sweep 100.0 ms (1001 pt: SSION 10:49:45 AM Mar 09, 202 rr TRACE 12 2 3 4 5 TYPE M WWWW DET P N NN N
Res BW gilent Spect RL center F	TX. Spur		NT 1-DH5 2	441MHz Emis	Sweep 100.0 ms (1001 pt) SSION 10:49:45 AM Mar 09, 200 rr TRACE   2 3 4 5 TYPE   MWWW DET   P N NN Mkr1 2.441 4 GH
Res BW	100 kHz Tx. Spur rum Analyzer - Swept SA RF 50 Ω AC ireq 13.265000000 GHz Ref Offset 1.5 dB		NT 1-DH5 2	441MHz Emis	Sweep 100.0 ms (1001 pt) SSION 10:49:45 AM Mar 09, 200 rr TRACE   2 3 4 5 TYPE   MWWW DET   P N NN Mkr1 2.441 4 GH
Res BW  gilent Spect RL  enter F  o dB/div  g  10.0	100 kHz Tx. Spur rum Analyzer - Swept SA RF 50 Ω AC ireq 13.265000000 GHz Ref Offset 1.5 dB		NT 1-DH5 2	441MHz Emis	Sweep 100.0 ms (1001 pt) SSION 10:49:45 AM Mar 09, 200 rr TRACE   2 3 4 5 TYPE   MWWW DET   P N NN Mkr1 2.441 4 GH
C dB/div	100 kHz Tx. Spur rum Analyzer - Swept SA RF 50 Ω AC ireq 13.265000000 GHz Ref Offset 1.5 dB		NT 1-DH5 2	441MHz Emis	Sweep 100.0 ms (1001 pt: SSION 10:49:45 AM Mar 09, 202 m TRACE   2 3 4 5 TYPEE M WWWM DET   P N NN Mkr1 2.441 4 GH -4.685 dBr
Res         BW           silent Spect         RL           renter F         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0	100 kHz Tx. Spur rum Analyzer - Swept SA RF 50 Ω AC ireq 13.265000000 GHz Ref Offset 1.5 dB		NT 1-DH5 2	441MHz Emis	Sweep 100.0 ms (1001 pt: Sision 10:49:45 AM Mar 09, 202 rr TRACE 23 4 5 TYPE MWWWW DETP NNNN Mkr1 2.441 4 GH -4.685 dBr
Res BW           ss           gilent Spect           RL           enter F           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0	100 kHz Tx. Spur rum Analyzer - Swept SA RF 50 2 AC req 13.265000000 GHz Ref Offset 1.5 dB Ref 20.00 dBm		NSE:PULSE	ALIGNAUTO Avg Type: Log-Pw Avg[Hold: 10/10	Sweep 100.0 ms (1001 pts Sision 10:49:45 AMMar 09, 202 rr TRACE 12 3 4 5 TYPE MANNAM OCT PT NNNN Mkr1 2.441 4 GH; -4.685 dBn -16.89 dB
Res         BW           gilent Spect         RL           RL         enter F           0 dB/div         9           10.0         9           0.00         9           0.00         9           0.00         9           0.00         9           0.00         9           0.00         9           0.00         9           0.00         9           0.00         9           0.00         9           0.00         9           0.00         9           0.00         9           0.00         9           0.00         9           0.00         9           0.00         9           0.00         9           0.00         9           0.00         9           0.00         9           0.00         9           0.00         9           0.00         9           0.00         9           0.00         9           0.00         9           0.00         9           0.00         9 <td>100 kHz Tx. Spur rum Analyzer - Swept 5A RF 50 Ω AC req 13.265000000 GHz Ref Offset 1.5 dB Ref 20.00 dBm</td> <td></td> <td>NSE:PULSE</td> <td>441MHz Emis</td> <td>Sweep 100.0 ms (1001 pt: Sision 10:49:45 AM Mar 09, 202 rr TRACE 12 3 4 5 TYPE M MARY ON DET P N NNN Mkr1 2.441 4 GH -4.685 dBr -16.68 dB</td>	100 kHz Tx. Spur rum Analyzer - Swept 5A RF 50 Ω AC req 13.265000000 GHz Ref Offset 1.5 dB Ref 20.00 dBm		NSE:PULSE	441MHz Emis	Sweep 100.0 ms (1001 pt: Sision 10:49:45 AM Mar 09, 202 rr TRACE 12 3 4 5 TYPE M MARY ON DET P N NNN Mkr1 2.441 4 GH -4.685 dBr -16.68 dB
Res         BW           ss	100 kHz Tx. Spur rum Analyzer - Swept SA RF   50 Ω AC   rreq 13.265000000 GHz Ref Offset 1.5 dB Ref 20.00 dBm		NSE:PULSE		Sweep 100.0 ms (1001 pts Sision 10:49:45 AMMar 09, 202 rr TRACE 12 3 4 5 TYPE MANNAM OCT PT NNNN Mkr1 2.441 4 GH; -4.685 dBn -16.89 dB
Res         BW           3G	100 kHz Tx. Spur rum Analyzer - Swept SA RF SO Q AC Freq 13.265000000 GHz Ref Offset 1.5 dB Ref 20.00 dBm	PNO: Fast	NSE:PULSE	ALIGNAUTO AVG Type: Log-Pw AvgIHold: 10/10	Sweep 100.0 ms (1001 pts Sision 10:49:45 AMMar 09, 202 7 TRACE [1 2 3 4 5 TYPE [M-WAWN DET [P N N N Mkr1 2.441 4 GH -4.685 dBn -16.88 dB -16.88 dB -16.88 dB
Res         BW           ss	100 kHz Tx. Spur rum Analyzer - Swept 5A Ref Offset 1.5 dB Ref 20.00 dBm 1 1 4 4 4 4 4 4 4 50 2 AC 5 5 5 5 5 5 5 5 5 5 5 5 5	PNO: Fast IFGain:Low	VE TI-DH5 2	ALIGN AUTO AVIG TYPE: Log-PW AvgType: Log-PW AvgType: Log-PW AvgHold: 10/10	10:49:45 AM Mar 09, 202 rr TRACE [] 2 3 4 5 TYPE MWWWW DET P NNNN Mkr1 2.441 4 GH: -4.685 dBn
Res         BW           signed         Sector           RL         RL           center F         Sector           10.0         Sector	100 kHz Tx. Spur rum Analyzer - Swept 5A RF 50 Ω AC req 13.265000000 GHz Ref Offset 1.5 dB Ref 20.00 dBm 1 1 4 4 4 4 4 4 4 5 5 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7	PNO: Fast	VIT 1-DH5 2	ALIGNAUTO ALIGNAUTO Avg Type: Log-Pw Avg Hold: 10/10	Sweep 100.0 ms (1001 pts Sision 10:49:45 AM Mar 09, 202 T TRACE [] 2 3 45 TYPE [MANANA DET [P N N N N Mkr1 2.441 4 GH -4.685 dBn -16:89 dB -16:89 dB -10:00 ms (10001 pts) -10:00 ms (10001 pts) -10:0
Res         BW           3G         RL           Renter F         RL           10.0         9           10.0         9           10.0         9           10.0         9           10.0         9           10.0         9           10.0         9           10.0         9           10.0         9           10.0         9           10.0         9           10.0         9           10.0         9           10.0         9           10.0         9           10.0         9           10.0         9           10.0         9           10.0         9           10.0         9           10.0         9           10.0         9           10.0         9           10.0         9           10.0         9           10.0         9           10.0         9           10.0         9           10.0         9           10.0         9           10.0	100 kHz Tx. Spur rum Analyzer - Swept SA RF   50 Q AC   req 13.265000000 GHz Ref Offset 1.5 dB Ref 20.00 dBm	rious NVN	VIT 1-DH5 2 VIE:PULSE  Trig: Free Run Atten: 30 dB  VIE:PULSE  VIE:PULSE VIE:PULSE  VIE:PULSE  VIE:PULSE VIE:PULSE VIE:PULSE VIE:PUL	ALIGNAUTO ALIGNAUTO Avg Type: Log-Pw Avg Hold: 10/10	Sweep 100.0 ms (1001 pts Sision 10:49:45 AM Mar 09, 202 T TRACE [] 2 3 45 TYPE [MANANA DET [P N N N N Mkr1 2.441 4 GH -4.685 dBn -16:89 dB -16:89 dB -10:00 ms (10001 pts) -10:00 ms (10001 pts) -10:0
Res BW renter F 0 dB/div 9 10.0 9 10.0 9 10.0 9 10.0 9 10.0 9 10.0 9 10.0 9 10.0 9 9 10.0 9 9 10.0 9 9 10.0 9 9 10.0 9 9 10.0 9 9 10.0 9 9 10.0 9 9 10.0 9 9 9 9 10.0 9 9 9 9 9 9 9 9 9	100 kHz Tx. Spur rum Analyzer - Swept SA RF SO Q AC req 13.265000000 GHz Ref Offset 1.5 dB Ref 20.00 dBm 1 1 1 1 1 1 1 1 1 1 1 1 1	rious NVN	VIT 1-DH5 2 VIE:PULSE  Trig: Free Run Atten: 30 dB  VIE:PULSE  VIE:PULSE VIE:PULSE  VIE:PULSE  VIE:PULSE VIE:PULSE VIE:PULSE VIE:PUL	ALIGNAUTO ALIGNAUTO Avg Type: Log-Pw Avg Hold: 10/10	Sweep 100.0 ms (1001 pt: Sision 10:49:45 AM Mar 09, 202 Trace [12:3:45 Trace [12:3:45] Trace [12:3:45 Trace [12:3:45] Trace [12:3:45] Tra
Res         BW           3G         Image: Control of the second sec	100 kHz Tx. Spur rum Analyzer - Swept SA RF SO Q AC req 13.265000000 GHz Ref Offset 1.5 dB Ref 20.00 dBm 1 1 1 1 1 1 1 1 1 1 1 1 1	rious NVN	VIT 1-DH5 2 VIE:PULSE  Trig: Free Run Atten: 30 dB  VIE:PULSE  VIE:PULSE VIE:PULSE  VIE:PULSE  VIE:PULSE VIE:PULSE VIE:PULSE VIE:PUL	ALIGNAUTO ALIGNAUTO Avg Type: Log-Pw Avg Hold: 10/10	Sweep 100.0 ms (1001 pt: Sision 10:49:45 AM Mar 09, 202 Trace [12:3:45 Trace [12:3:45] Trace [12:3:45 Trace [12:3:45] Trace [12:3:45] Tr



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	Tx. S	purious N	VNT 1-DH	I5 2480MH	z Ref		
Agilent Spectrum Anal	yzer - Swept SA 50 Ω AC	SEN	ISE:PULSE	ALIGNAUTO		10:52:07	AM Mar 09, 2023
	480000000 GHz	PNO: Wide +++	Trig: Free Run Atten: 30 dB	Avg Type: Avg Hold: 1		TR. T	ACE 1 2 3 4 5 6 YPE M WWWWWW DET P N N N N N
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-00.0							
-70.0						-	
Center 2.48000	00 GHz					Span	1.500 MHz
#Res BW 100 k	Hz	#VBV	V 300 kHz		#Swee	p 100.0 ms	(1001 pts)
mod		ious NIV/N		2480MHz E	missio	<u> </u>	
Agilent Spectrum Anal			T T DITO Z			1	
Center Freq 1	50 Ω AC 3.265000000 GHz	z	SE:PULSE	ALIGNAUTO Avg Type: Avg Hold: 1	Log-Pwr	TR	AM Mar 09, 2023 ACE 1 2 3 4 5 6 YPE M WWWWWW
		PNO: Fast ↔ IFGain:Low	Atten: 30 dB				DET P N N N N N
10 dB/div Ref	Dffset 1.5 dB 20.00 dBm					Mkr1 2.48 -3.6	651 dBm
10.0	1						
0.00	1						
-10.0							-17.37 dBm
-30.0							
-40.0	<mark>3</mark>	∧ <mark>4 ∧5</mark>					
-60.0						and the second	
-70.0							
Start 30 MHz #Res BW 100 k	Hz	#VBV	V 300 kHz		#Sweep	Stop : 100.0 ms (	26.50 GHz 10001 pts)
MKR MODE TRC SCL	× 2.481 1 G	;Hz -3.651 c		FUNCTION WIDTH	F	UNCTION VALUE	<u>^</u>
2 N 1 f 3 N 1 f	26.383 5 G 5.136 1 G	Hz -45.463 o Hz -55.262 o	dBm dBm				
4 N 1 f 5 N 1 f	7.296 0 G 9.972 1 G	Hz -56.457 d	dBm				
6 7 8							
9 10							
11							×
MSG				STATUS !			

### 2



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		urious NVN	T 2-DH5	2402MHz	Ref	
Agilent Spectrum Analyzer - Sv X/ R L RF 50 G		SENSE:PULS	æ	ALIGN AUTO		12:45:35 PM Mar 09, 202
Center Freq 2.4020		PNO: Wide 🛶 Trig FGain:Low Atte	: Free Run en: 30 dB	Avg Type: L Avg Hold: 10	og-Pwr 0/100	TRACE 1 2 3 4 5 TYPE MWWW DET P N N N N
Ref Offset 1.					Mkr1 2	401 805 0 GH. -0.048 dBr
o dB/div Ref 20.00	dBm					-0.046 UBI
10.0						
		<b>1</b>				
0.00				Π		
10.0						<u></u>
20.0						
30.0						
40.0						
50.0						
60.0						
70.0						
0.0						
enter 2.4020000 GH	z					Span 1.500 MH
Res BW 100 kHz		#VBW 300	) kHz	~	#Sweep 1	00.0 ms (1001 pts
SG	The Original					
Agilent Spectrum Analyzer - Sv		ous NVNT 2	-DHD 24		nission	
	2 AC	SENSE:PULS	æ	ALIGNAUTO Avg Type: L	ng-Pwr	12:45:46 PM Mar 09, 202
senter freq 15.205			: Free Run en: 30 dB	Avg Hold: 10		TRACE 1 2 3 4 5 TYPE M WANNA DET P N N N N
Ref Offset 1	5 dB				Mk	r1 2.402 6 GH
0 dB/div Ref 20.00	dBm					-6.137 dBr
10.0						
0.00						
20.0						-20.05 dE
30.0						02
40.0	34	<u>5</u>				
60.0				an na an an Air Air an Air Air an Air Air an Air Air an	allers, and an and shared at the se	in print, feet stadied a statistical statistic
70.0 <b>AUX (1991) 111 111 111 111 111</b>	and a second second	a nana 11 an ing mananan a				
Start 30 MHz		27 (B) (A) (A) (A)				Stop 26.50 GH
Res BW 100 kHz	×	#VBW 300	) KHZ			0.0 ms (30001 pts on value
1 N 1 f	2.402 6 GHz 25.488 0 GHz					
3 N 1 f	4.994 0 GHz 7.221 0 GHz	-55.408 dBm -56.216 dBm				
5 N 1 f 6	9.792 1 GHz	-57.056 dBm				
4 N 1 f 5 N 1 f 6 7 8 9 10						
9 10 11						
				4		
SG				🕼 status 🔥 N	leas Uncal	

Tx. Spurious NVNT 2-DH5 2402MHz Ref

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		. opunous r	IVNI 2-DH5	2441MHz Ref	
LXI RL F	Analyzer - Swept SA RF 50 Ω AC 2.441000000 G		ENSE:PULSE	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 100/100	12:47:54 PM Mar 09, 2023 TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P N N N N
10 dB/div Re	ef Offset 1.5 dB ef 20.00 dBm			Mki	1 2.440 803 5 GHz 3.256 dBm
Log					
10.0		1			
0.00					
-10.0					The second secon
-20.0					
-30.0					
-40.0					
-50.0	_				
-60.0					
-70.0					
Center 2.441 #Res BW 100		#VE	SW 300 kHz	#Swee	Span 1.500 MHz p 100.0 ms (1001 pts)
MSG				STATUS	
Agilent Spectrum A	TX. S Analyzer - Swept SA	ourious NVI	NT 2-DH5 24	141MHz Emissio	n
LXI RL F	RF 50 Ω AC 13.265000000		ENSE:PULSE	ALIGNAUTO Avg Type: Log-Pwr	12:48:07 PM Mar 09, 2023 TRACE 1 2 3 4 5 6 TYPE M WWWWW
		PNO: Fast ↔ IFGain:Low	. Trig: Free Run Atten: 30 dB	Avg Hold: 10/10	DET P N N N N N
	ef Offset 1.5 dB				Mkr1 2.441 4 GHz
	ef 20.00 dBm				-3.049 dBm
10.0					-3.049 dBm
Log					
10.0 0.00					-3.049 dBm
Log 10.0 -0.00 -10.0 -20.0 -30.0 -40.0					
Log 10.0 -10.0 -20.0 -30.0					
Log 10.0 -10.0 -20.0 -30.0 -40.0 -50.0 -70.0 -70.0	ef 20.00 dBm				
Log 10.0 -10.0 -20.0 -30.0 -40.0 -60.0 	ef 20.00 dBm		W 300 kHz	nancii ya shi kilan ya na kuma a shi kilan ya sa shi ka ma	
Log 10.0 -10.0 -20.0 -30.0 -30.0 -30.0 -40.0 -50.0 -50.0 -70.0 -50.0 -70.0 -50.0 -70.0 -50.0 -70.0 -50.0 -70.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0	ef 20.00 dBm	Y 1 4 GHz -3.049	W 300 kHz	#Sweep	-16.74 dBm
Log 10.0 -10.0 -20.0 -30.0 -30.0 -40.0 -50.0 -50.0 -50.0 -70.0 -10.0 -40.0 -50.0 -50.0 -70.0 -10.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -70.0 -50.0 -70.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -70.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -70.0 -50.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0	ef 20.00 dBm	1 4 GHz -3.049 1 2 GHz -44.723 7 5 GHz -55.426 9 3 GHz -56.598	W 300 kHz FUNCTION dBm dBm dBm	#Sweep	2 2 2 2 3 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5
Log 10.0 0.00 -10.0 -20.0 -30.0 -30.0 -40.0 -50.0 -70.0 Start 30 MHz #Res BW 100 MKS M003 FFC IS 1 N 1 f 3 N 1 f 4 N 1 f 5 N 1 f 5 N 1 f 5 N 1 f 7	ef 20.00 dBm	1 4 GHz -3.049 1 2 GHz -44.723 7 5 GHz -55.426	W 300 kHz FUNCTION dBm dBm dBm	#Sweep	2 2 2 2 3 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5
Log 10.0 -10.0 -20.0 -30.0 -30.0 -40.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0 -50.0	ef 20.00 dBm	1 4 GHz -3.049 1 2 GHz -44.723 7 5 GHz -55.426 9 3 GHz -56.598	W 300 kHz FUNCTION dBm dBm dBm	#Sweep	2 2 2 2 3 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5
Log 10.0 0.00 -10.0 -20.0 -20.0 -30.0 -40.0 -50.0 -50.0 -50.0 -70.0 -10.0 -40.0 -50.0 -70.0 -10.0 -40.0 -50.0 -50.0 -70.0 -50.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0 -70.0	ef 20.00 dBm	1 4 GHz -3.049 1 2 GHz -44.723 7 5 GHz -55.426 9 3 GHz -56.598	W 300 kHz FUNCTION dBm dBm dBm	#Sweep	2 2 2 2 3 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5

Tx. Spurious NVNT 2-DH5 2441MHz Ref

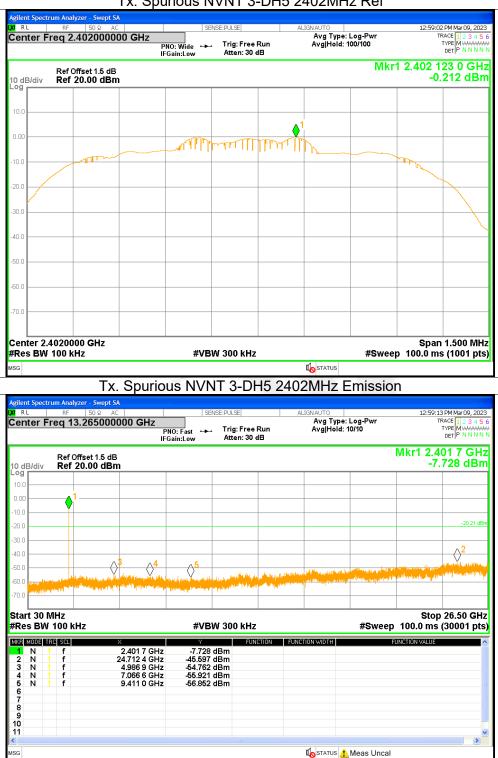


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	Spurious N	IVNT 2-DH	5 2480MHz Ref	
Agilent Spectrum Analyzer - Swept SA           W         RL         RF         50 Ω         AC           Center Freq 2.480000000 G		ENSE:PULSE	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 100/100	12:50:31 PM Mar 09, 2023 TRACE 1 2 3 4 5 6 TYPE M WWWW DET P N N N N N
Ref Offset 1.5 dB	IFGain:Low	Atten: 50 th	Mki	r1 2.479 802 0 GHz 2.666 dBm
10 dB/div Ref 20.00 dBm				2.000 dBm
10.0	1			
0.00				
-10.0				
-20.0				
-30.0				
-40.0				<u> </u>
-50.0				
-60.0				
-70.0				
Center 2.4800000 GHz #Res BW 100 kHz	#VE	300 kHz	#Swee	Span 1.500 MHz p 100.0 ms (1001 pts)
MSG			<b>I</b> ostatus	
Tx. Sp Agilent Spectrum Analyzer - Swept SA	ourious NV	NT 2-DH5 24	480MHz Emissio	'n
Center Freq         13.265000000000000000000000000000000000000		ENSE:PULSE	ALIGNAUTO Avg Type: Log-Pwr	12:50:42 PM Mar 09, 2023 TRACE 1 2 3 4 5 6 TYPE MWWWWW
	PNO: Fast 🔸	Trig: Free Run Atten: 30 dB	Avg Hold: 10/10	DET P N N N N N
	IFGain:Low			
Ref Offset 1.5 dB 10 dB/div Ref 20.00 dBm	IFGain:Low			Mkr1 2.480 2 GHz -4.505 dBm
10 dB/div Ref 20.00 dBm 10.0	IFGain:Low			Mkr1 2.480 2 GHz
10 dB/div Ref 20.00 dBm 10.0 -10.0 -10.0	IFGain:Low			Mkr1 2.480 2 GHz
10 dB/div Ref 20.00 dBm	IFGain:Low			Mkr1 2.480 2 GHz -4.505 dBm
10 dB/div Ref 20.00 dBm 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0	IFGain:Low			Mkr1 2.480 2 GHz -4.505 dBm
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10.0         20.00         Ref 20.00 dBm           10.0         1         1           0.00         1         1           10.0         1         1           0.00         1         1           20.0         1         1           30.0         1         1           -40.0         -         -           -50.0         -         -           -60.0         -         -           -70.0         -         -	 ↓ ↓ ↓ ↓ ↓			Mkr1 2.480 2 GHz -4.505 dBm
10 dB/div         Ref 20.00 dBm           10.0         1           0.00         1           0.00         1           0.00         1           0.00         1           0.00         1           0.00         1           0.00         1           0.00         1           20.0         1           30.0         1           40.0         3           50.0         3           60.0         3           70.0         4           Marrier communication of the state sta		W 300 kHz	#Sweep	Mkr1 2.480 2 GHz -4.505 dBm
10 dB/div         Ref 20.00 dBm           100         1           100         1           100         1           100         1           100         1           100         1           100         1           100         1           100         1           100         1           100         1           100         1           100         1           100         1           100         1           100         1           100         1           100         1           100         1           100         1           100         1           100         1           100         1           100         1           100         1	#VE	W 300 kHz	#Sweep	Mkr1 2.480 2 GHz -4.505 dBm
10 dB/div         Ref 20.00 dBm           10.0         1           10.0         1           10.0         1           10.0         1           10.0         1           10.0         1           10.0         1           10.0         1           10.0         1           10.0         1           20.0         3           -30.0         -30.0           -40.0         -30.0           -50.0         -30.0           -60.0         -30.0           -60.0         -30.0           -70.0         -30.0           -70.0         -30.0           -70.0         -30.0           -70.0         -30.0           -70.0         -30.0           -70.0         -30.0           -70.0         -30.0           -70.0         -30.0           -70.0         -30.0           -70.0         -30.0           -70.0         -30.0           -70.0         -30.0           -70.0         -30.0           -70.0         -30.0           -70.0         -30.0 <tr< td=""><td>#VE</td><td>W 300 kHz</td><td>#Sweep</td><td>Mkr1 2.480 2 GHz -4.505 dBm</td></tr<>	#VE	W 300 kHz	#Sweep	Mkr1 2.480 2 GHz -4.505 dBm
10 dB/div         Ref 20.00 dBm           10.0         1           10.0         1           10.0         1           10.0         1           10.0         1           10.0         1           10.0         1           10.0         1           10.0         1           10.0         1           20.0         3           -30.0         -30.0           -40.0         -30.0           -50.0         -30.0           -60.0         -30.0           -60.0         -30.0           -70.0         -30.0           -70.0         -30.0           -70.0         -30.0           -70.0         -30.0           -70.0         -30.0           -70.0         -30.0           -70.0         -30.0           -70.0         -30.0           -70.0         -30.0           -70.0         -30.0           -70.0         -30.0           -70.0         -30.0           -70.0         -30.0           -70.0         -30.0           -70.0         -30.0 <tr< td=""><td>#VE 0 2 GHz 4500 7 4 GHz 45.674 3 7 GHz 55.837 4 8 GHz 55.837</td><td>W 300 kHz</td><td>#Sweep</td><td>Mkr1 2.480 2 GHz -4.505 dBm</td></tr<>	#VE 0 2 GHz 4500 7 4 GHz 45.674 3 7 GHz 55.837 4 8 GHz 55.837	W 300 kHz	#Sweep	Mkr1 2.480 2 GHz -4.505 dBm
10 dB/div         Ref 20.00 dBm           10.0         1           0.00         1           -10.0         1           -20.0         -           -30.0         -           -60.0         -           -60.0         -           -70.0         -           Start 30 MHz         -           #Res BW 100 kHz         ×           1         f         24.80           2         N         1         f           3         N         1         f	#VE 0 2 GHz 4500 7 4 GHz 45.674 3 7 GHz 55.837 4 8 GHz 55.837	W 300 kHz	#Sweep	Mkr1 2.480 2 GHz -4.505 dBm



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Tx. Spurious NVNT 3-DH5 2402MHz Ref



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Agilant Coos	trum App	lyzer - Swept SA		irious N	IVNT 3	-DH5	2441MH	z Ref		
XI RL	RF	50 Ω AC	00 GHz P	SE NO: Wide ↔ Gain:Low	NSE:PULSE Trig: Free Atten: 30		ALIGN AUTO Avg Type: Avg Hold: 1		01:00	:58 PM Mar 09, 2023 TRACE 1 2 3 4 5 6 TYPE M
10 dB/div Log		Dffset 1.5 dB 20.00 dBm	ı					Mk		121 5 GHz 3.155 dBm
10.0										
0.00										
-10.0		- TTM-							Mur	
-20.0										
-30.0										
40.0										
-50.0										
60.0										
-70.0										
Center 2	44400								0.00	
#Res B₩				#VB	W 300 kHz			#Swe		an 1.500 MHz ns (1001 pts)
ISG		Tx.	. Spurio	us NVN	IT 3-DI	15 24	41MHz E	missio	on	
X/RL	RF			SE	NSE:PULSE		ALIGNAUTO Avg Type:	La en Daran	01:01	:09 PM Mar 09, 2023 TRACE 1 2 3 4 5 6
Senter	-req 1	3.265000	F	PNO: Fast 🔸	Trig: Free Atten: 30		Avg Hold: 1			TYPE MWWWWWW DET PNNNNN
10 dB/div		Offset 1.5 dB 20.00 dBm								441 4 GHz 5.992 dBm
10.0		1								
-10.0										-16.85 dBm
-20.0										
-40.0		. 0	,3 ,	5		alta e a tata	te asses and the state of the state of the	a a the same and a state of the same	lini en	
-60.0	tan di ang l	1997 (no beneral blog af 1997 (no beneral blog af bener 1997 (no beneral ar antistar))	na se	latina, da anta Mantana t Ny Kambura di Kambura	a daga sa ka sa	and a standard and a standard at	and the second secon	half for the state of the	adarah Milinan da Jaran Jaran.	
Start 30		/Un		#\/P	W 200 kU-			# <b>C</b> woo		op 26.50 GHz
#Res BV			× 2.441 4 GHz	#VD -5.992			UNCTION WIDTH		FUNCTION VALUE	s (30001 pts)
2 N	1 f 1 f	:	25.499 4 GHz 5.036 4 GHz	-44.560	dBm dBm					
3 N 4 N			7 231 6 GHz		dBm					
4 N 5 N	1 f 1 f		7.231 6 GHz 9.590 1 GHz	-55.843						
3 N 4 N 5 N 6 7 8 9 10	1 f		7.231 6 GHz	-55.843						
4 N 5 N 6 7 8 9	1 f		7.231 6 GHz	-55.843				Magaller		



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Tx. Spurious NVNT 3-DH5 2480MHz Ref										
Agilent Spectrum Analyzer - Swept SA           ΔX         RL         RF         50 Ω         AC         SENSE:PULSE         ALIGN AUTO         01:03:13 PM Mar 09, 24           Center Freq 2.480000000 GHz         Avg Type: Log-Pwr         TRACE         1/2 3.4									3 PM Mar 09, 2023 RACE 1 2 3 4 5 6	
Center	169 2.4000000	Р	NO: Wide 🔸	Trig: Free Atten: 30 d		Avg Hold:	100/100		DET P N N N N N	
Ref Offset 1.5 dB         Mkr1 2.480 120 0 GHz           10 dB/div         Ref 20.00 dBm         2.539 dBm										
10.0										
0.00						1				
-10.0	TT							- Mr		
-20.0										
-30.0										
-40.0										
-50.0										
-60.0										
-70.0										
	4000000 000-								4.500 5411-	
#Res BW	Center 2.4800000 GHz Span 1.500 MHz #Res BW 100 kHz #VBW 300 kHz #Sweep 100.0 ms (1001 pts)									
Tx. Spurious NVNT 3-DH5 2480MHz Emission										
Agilent Spect	r <b>um Analyzer - Swept SA</b> RF 50 Ω AC			NSE:PULSE		LIGNAUTO		01:03:2•	4 PM Mar 09, 2023	
Center F	req 13.2650000	F	PNO: Fast 🔸	Trig: Free Atten: 30 d		Avg Type: Avg Hold: '	Log-Pwr 10/10	TI	RACE 1 2 3 4 5 6 TYPE MWWWW DET P N N N N N	
Ref Offset 1.5 dB         Mkr1 2.480 2 GHz           10 dB/div         Ref 20.00 dBm         -6.055 dBm										
10.0										
-10.0									-17.46 dBm	
-20.0									-17.46 (1011)	
-40.0		3 _4					an in standard a state			
-60.0 million	na ang ang ang ang ang ang ang ang ang a	densis (Street) and and states and a states and	n han an an han han han h	an a	a Madaa a Madaa Madaa da Madaa	an an Allahan an Anna Anna Anna Anna an Anna Anna A	Unillikija tes <mark>jujaktatili</mark>	(التدورة المتلاومين الألفان	ractifications and place beating on	
Start 30 I	VIHz							Stop	26.50 GHz	
#Res BW 100 kHz         #VBW 300 kHz         #Sweep 100.0 ms (30001 pts)           MKR MODE TRC SCI         X         Y         FUNCTION WIDTH         FUNCTION VALUE         A										
1 N 2 N 3 N	f 2 f	2.480 2 GHz 4.467 1 GHz 4.991 4 GHz	-6.055 -44.520 -55.836	dBm dBm						
4 N 5 N 6	1 f 1 f 1	7.562 5 GHz 0.053 3 GHz	-55.443 -57.238						3	
7 8 9										
10 11 <									×	
MSG STATUS 🔥 Meas Uncal										

2



### 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 * * * * *



Shenzhen STS Test Services Co., Ltd.