



Test Report No.: W7L-P22050011RF01



VARIANT FCC TEST REPORT (Part 15, Subpart C)

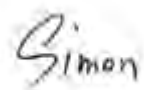

Applicant:	PAX Technology Limited
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Manufacturer or Supplier:	PAX Computer Technology (Shenzhen) Co., Ltd.
Address:	401 and 402, Building 3, Shenzhen Software Park, Nanshan District, Shenzhen City, Guangdong Province, P.R.C.
Product:	Smart Desktop Terminal
Brand Name:	PAX
Model Name:	L1400
FCC ID:	V5PL1400
Date of tests:	Feb. 16, 2022 ~ Jun. 17, 2022

The tests have been carried out according to the requirements of the following standard:

- FCC Part 15, Subpart C, Section 15.247
- ANSI C63.10-2013

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Prepared by Simon Wang Engineer / Mobile Department	Approved by Luke Lu Manager / Mobile Department
 Date: Jun. 17, 2022	 Date: Jun. 17, 2022

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
W7L-P22010035RF01	Original release	Mar. 08, 2022
W7L- P22050011RF01	Based on the original report W7L-P21120035RF01 add 6 pogo pin contacts (USB signal), change antenna shape and position and modified the main board. In this report verify RSE worst case, other test data is copied from the original test report.	Jun. 17, 2022



1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 15, Subpart C		
STANDARD	TEST TYPE AND LIMIT	RESULT
15.207	AC Power Conducted Emission	Compliance
15.247(a)(1)(iii)	Number of Hopping Frequency Used	Compliance
15.247(a)(1)(iii)	Dwell Time on Each Channel	Compliance
15.247(a)(1)	1. Hopping Channel Separation 2. Spectrum Bandwidth of a Frequency Hopping Sequence Spread Spectrum System	Compliance
15.247(b)	Maximum Peak Output Power	Compliance
15.247(d)& 15.209	Transmitter Radiated Emissions	Compliance
15.247(d)	Out of band Measurement	Compliance
15.203	Antenna Requirement	Compliance

NOTE: If the Frequency Hopping System operating in 2400-2483.5MHz band and the output power less than 125mW. The hopping channel carrier frequencies separated by a minimum of 25kHz or two-thirds of the 20dB bandwidth of hopping channel whichever is greater.

1.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

MEASUREMENT	UNCERTAINTY
AC Power Conducted emissions	±2.70dB
Radiated emissions (30MHz~1GMHz)	±4.98dB
Radiated emissions (1GMHz ~6GMHz)	±4.70dB
Radiated emissions (6GMHz ~18GMHz)	±4.60dB
Radiated emissions (18GMHz ~40GMHz)	±4.12dB
Conducted emissions	±4.01dB
Occupied Channel Bandwidth	±43.58KHz
Conducted Output power	±2.06dB
Power Spectral Density	±0.85 dB

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

2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Smart Desktop Terminal
BRAND NAME	PAX
MODEL NAME	L1400
NOMINAL VOLTAGE	12Vdc (adapter or host equipment)
MODULATION TECHNOLOGY	FHSS
MODULATION TYPE	GFSK, 8DPSK, $\pi/4$ DQPSK
OPERATING FREQUENCY	2402MHz~2480MHz
NUMBER OF CHANNEL	79
MAX. OUTPUT POWER	11.27mW (Max. Measured)
ANTENNA TYPE	FPC Antenna with 1dBi gain
I/O PORTS	Refer to user's manual
CABLE SUPPLIED	N/A

NOTE:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
2. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.

List of Accessory:

ACCESSORIES	BRAND	MODEL	SPECIFICATION
AC Adapter	/	ADT-65NS-D00	I/P: 100-240Vac, 1.6A, O/P: 12Vdc, 5.0A, 1.8 meter



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2.2 DESCRIPTION OF TEST MODES

79 channels are provided to this EUT:

CHANNEL	FREQ. (MHz)	CHANNEL	FREQ. (MHz)	CHANNEL	FREQ. (MHz)	CHANNEL	FREQ. (MHz)
0	2402	20	2422	40	2442	60	2462
1	2403	21	2423	41	2443	61	2463
2	2404	22	2424	42	2444	62	2464
3	2405	23	2425	43	2445	63	2465
4	2406	24	2426	44	2446	64	2466
5	2407	25	2427	45	2447	65	2467
6	2408	26	2428	46	2448	66	2468
7	2409	27	2429	47	2449	67	2469
8	2410	28	2430	48	2450	68	2470
9	2411	29	2431	49	2451	69	2471
10	2412	30	2432	50	2452	70	2472
11	2413	31	2433	51	2453	71	2473
12	2414	32	2434	52	2454	72	2474
13	2415	33	2435	53	2455	73	2475
14	2416	34	2436	54	2456	74	2476
15	2417	35	2437	55	2457	75	2477
16	2418	36	2438	56	2458	76	2478
17	2419	37	2439	57	2459	77	2479
18	2420	38	2440	58	2460	78	2480
19	2421	39	2441	59	2461		



2.2.1 CONFIGURATION OF SYSTEM UNDER TEST

Please see section 5 photograph of the test configuration for reference.

2.2.2 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports. The worst case was found when positioned on X axis for radiated emission. Following channel(s) was (were) selected for the final test as listed below:

EUT CONFIGURE MODE	APPLICABLE TO				DESCRIPTION
	RE<1G	RE≥1G	PLC	APCM	
-	√	√	√	√	-

Where **RE<1G**: Radiated Emission below 1GHz
PLC: Power Line Conducted Emission

RE≥1G: Radiated Emission above 1GHz
APCM: Antenna Port Conducted Measurement

RADIATED EMISSION TEST (BELOW 1 GHz):

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, XYZ axis, antenna ports (if EUT with antenna diversity architecture) and packet type.
- Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	PACKET TYPE
-	0 to 78	0	FHSS	GFSK	DH5

RADIATED EMISSION TEST (ABOVE 1 GHz):

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, XYZ axis, antenna ports (if EUT with antenna diversity architecture) and packet type.
- Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	PACKET TYPE
-	0 to 78	0, 39, 78	FHSS	GFSK	DH5
-	0 to 78	0, 39, 78	FHSS	π/4 DQPSK	2DH5
-	0 to 78	0, 39, 78	FHSS	8DPSK	3DH5



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POWER LINE CONDUCTED EMISSION TEST:

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, antenna ports (if EUT with antenna diversity architecture) and packet type.
- Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	PACKET TYPE
-	0 to 78	39	FHSS	GFSK	DH5

ANTENNA PORT CONDUCTED MEASUREMENT:

- This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, antenna ports (if EUT with antenna diversity architecture), and packet types.
- Following channel(s) was (were) selected for the final test as listed below.

AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	PACKET TYPE
0 to 78	0, 39, 78	FHSS	GFSK	DH1/DH3/DH5
0 to 78	0, 39, 78	FHSS	$\pi/4$ DQPSK	2DH1/2DH3/2DH5
0 to 78	0, 39, 78	FHSS	8DPSK	3DH1/3DH3/3DH5

TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	TEST VOLTAGE (SYSTEM)	TESTED BY
RE<1G	23deg. C, 70%RH	DC 12V	Carl xie
RE≥1G	23deg. C, 70%RH	DC 12V	Carl xie
PLC	25deg. C, 52%RH	DC 12V	Lily Zhao
APCM	25deg. C, 60%RH	DC 12V	Lily Zhao



2.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC Part 15, Subpart C. Section 15.247 ANSI C63.10-2013

- NOTE:**
1. All test items have been performed and recorded as per the above standards.
 2. The EUT is also considered as a kind of computer peripheral, because the connection to computer is necessary for typical use. It has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (Certification). The test report has been issued separately.

2.4 DESCRIPTION OF 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.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	Desktop	Lenovo	M73 SFF	PC04GRQV	N/A
2	Desktop	Lenovo	M73 SFF	PC06CS27	N/A
3	Laptop	Lenovo	Thnikpad L440	R90FTFKN	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	AC Line: Unshielded, Detachable 1.5m
2	AC Line: Unshielded, Detachable 1.5m
3	AC Line: Unshielded, Detachable 1.5m

3 TEST TYPES AND RESULTS

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dB μ V)	
	Quasi-peak	Average
0.15 ~ 0.5	66 to 56	56 to 46
0.5 ~ 5	56	46
5 ~ 30	60	50

- NOTE:**
1. The lower limit shall apply at the transition frequencies.
 2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.
 3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

3.1.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESR3	101900	Mar. 03,21	Mar. 02,22
EMI Test Receiver	Rohde&Schwarz	ESR3	101900	Mar. 03,22	Mar. 02,23
EMC32 test software	Rohde&Schwarz	EMC32	NA	NA	NA
LISN network	Rohde&Schwarz	ENV216	101922	Feb. 25,21	Feb. 24,22
LISN network	Rohde&Schwarz	ENV216	101922	Feb. 25,22	Feb. 24,23

- NOTE:**
1. The test was performed in CE shielded room.
 2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.

3.1.3 TEST PROCEDURES

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.



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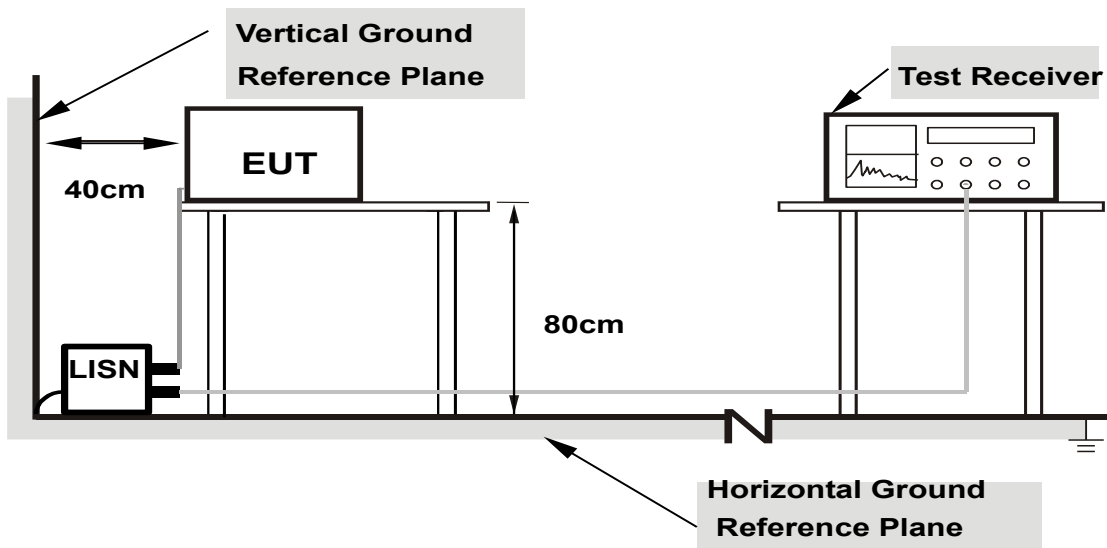
c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

NOTE: All modes of operation were investigated and the worst-case emissions are reported.

3.1.4 DEVIATION FROM TEST STANDARD

No deviation.

3.1.5 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 from other units and other metal planes

For the actual test configuration, please refer to the attached file (Test Setup Photo).

3.1.6 EUT OPERATING CONDITIONS

- Turned on the power and connected of all equipment.
- EUT was operated according to the type used was description in manufacturer's specifications or the User's Manual.



3.1.7 TEST RESULTS

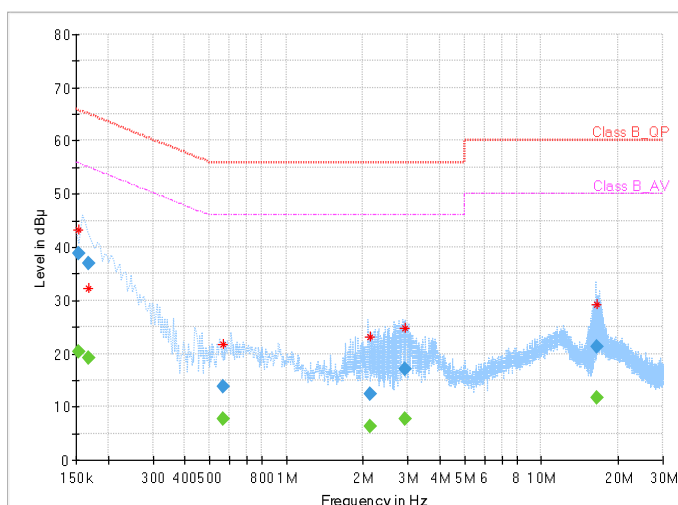
CONDUCTED WORST-CASE DATA:

Frequency Range	150KHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120Vac, 60Hz	Environmental Conditions	25deg. C, 55%RH
Tested By	Carl Xie		

Frequency (MHz)	QuasiPeak (dBUV)	CAverage (dBUV)	Limit (dBUV)	Margin (dB)	Line	Filter	Corr. (dB)
0.154000	---	20.39	55.78	35.41	L1	ON	9.7
0.154000	38.74	---	65.78	27.04	L1	ON	9.7
0.168000	---	19.08	55.06	35.98	L1	ON	9.7
0.168000	37.06	---	65.06	28.00	L1	ON	9.7
0.564000	---	7.70	46.00	38.30	L1	ON	9.7
0.564000	13.71	---	56.00	42.29	L1	ON	9.7
2.144000	---	6.22	46.00	39.78	L1	ON	9.7
2.144000	12.51	---	56.00	43.49	L1	ON	9.7
2.932000	---	7.83	46.00	38.17	L1	ON	9.7
2.932000	17.11	---	56.00	38.89	L1	ON	9.7
16.492000	---	11.61	50.00	38.39	L1	ON	9.8
16.492000	21.37	---	60.00	38.63	L1	ON	9.8

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Limit value - Emission level
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.

Full Spectrum





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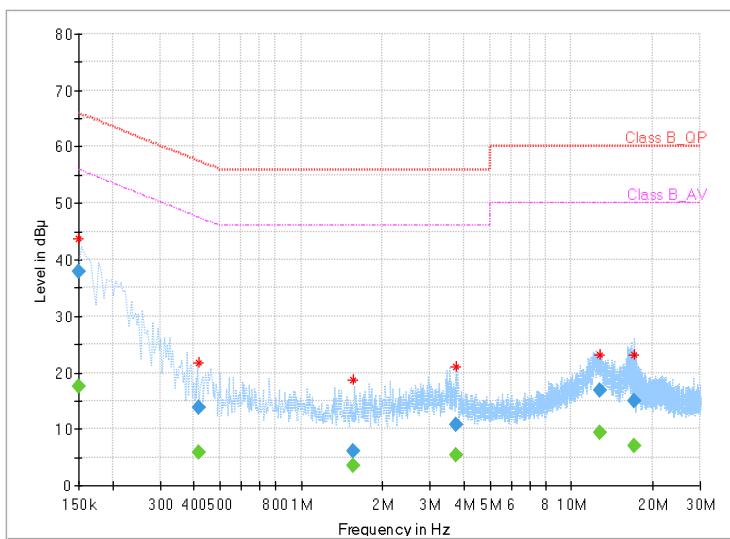
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Frequency Range	150KHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120Vac, 60Hz	Environmental Conditions	25deg. C, 55%RH
Tested By	Carl Xie		

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.150000	---	17.49	56.00	38.51	N	ON	9.7
0.150000	37.83	---	66.00	28.17	N	ON	9.7
0.416000	---	5.77	47.53	41.76	N	ON	9.7
0.416000	13.79	---	57.53	43.74	N	ON	9.7
1.552000	---	3.47	46.00	42.53	N	ON	9.8
1.552000	6.16	---	56.00	49.84	N	ON	9.8
3.748000	---	5.30	46.00	40.70	N	ON	9.8
3.748000	10.86	---	56.00	45.14	N	ON	9.8
12.736000	---	9.44	50.00	40.56	N	ON	9.8
12.736000	16.95	---	60.00	43.05	N	ON	9.8
17.084000	---	7.07	50.00	42.93	N	ON	9.9
17.084000	14.90	---	60.00	45.10	N	ON	9.9

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Limit value - Emission level
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.

Full Spectrum





3.2 RADIATED EMISSION AND BANDEDGE MEASUREMENT

3.2.1 LIMITS OF RADIATED EMISSION AND BANDEDGE MEASUREMENT

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a). Other emissions shall be at least 20dB below the highest level of the desired power.

FREQUENCIES (MHz)	FIELD STRENGTH (microvolts/meter)	MEASUREMENT DISTANCE (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

NOTE:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.



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3.2.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
3m Semi-anechoic Chamber	ETS-LINDGREN	9m*6m*6m	Euroshieldpn-CT0001143-1216	May. 19,20	May. 18,23
Bilog Antenna	ETS-LINDGREN	3143B	00161965	Mar. 05,21	Mar. 04,22
Bilog Antenna	ETS-LINDGREN	3143B	00161965	Mar. 04,22	Mar. 03,23
Horn Antenna	ETS-LINDGREN	3117	00168728	Apr. 02,21	Apr. 01,22
Horn Antenna	ETS-LINDGREN	3117	00168728	Apr. 01,22	Mar. 31,23
Horn Antenna (18GHz-40GHz)	N/A	QWH-SL-18-40-K-SG/QMS-00361	15433	Aug. 25, 21	Aug. 24, 22
Test Software	E3	V 9.160323	N/A	N/A	N/A
Test Software	ADT	ADT_Radiated_V7.6.15.9.2	N/A	N/A	N/A
10dB Attenuator	JFW/USA	50HF-010-SMA	1505	Jun. 03,21	Jun. 02,22
10dB Attenuator	JFW/USA	50HF-010-SMA	1505	Jun. 02,22	Jun. 01,23
MXE EMI Receiver	KEYSIGHT	N9038A-544	MY54450026	Apr. 22,21	Apr. 21,22
MXE EMI Receiver	KEYSIGHT	N9038A-544	MY54450026	Apr. 21,22	Apr. 20,23
Signal Pre-Amplifier	EMSI	EMC 9135	980249	Jun. 02,21	Jun. 01,22
Signal Pre-Amplifier	EMSI	EMC 9135	980249	Jun. 01,22	May. 31,23
Signal Pre-Amplifier	EMSI	EMC 012645B	980257	Jun. 03,21	Jun. 02,22
Signal Pre-Amplifier	EMSI	EMC 012645B	980257	Jun. 02,22	Jun. 01,23
Signal Pre-Amplifier	EMSI	EMC 184045B	980259	Apr. 22,21	Apr. 21,22
Signal Pre-Amplifier	EMSI	EMC 184045B	980259	Apr. 21,22	Apr. 20,23

- NOTE:**
1. The calibration interval of the above test instruments is 12 months or 36 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
 2. The test was performed in 3m Chamber.
 3. The FCC Site Registration No. is 525120; The Designation No. is CN1171.



3.2.3 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 0.8 meters (for below 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, For battery operated equipment, the equipment tests shall be perform using fresh batteries. The turntable was rotated to maximize the emission level.

NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 10Hz for Average detection (AV) at frequency above 1GHz.
4. If the dwell time per channel of the hopping signal is less than 100 ms, then the reading obtained with the 10 Hz VBW may be further adjusted by a "duty cycle correction factor", derived from $20\log(\text{dwell time}/100 \text{ ms})$, in an effort to demonstrate compliance with the 15.209 limit.
5. All modes of operation were investigated and the worst-case emissions are reported.

3.2.4 DEVIATION FROM TEST STANDARD

No deviation.

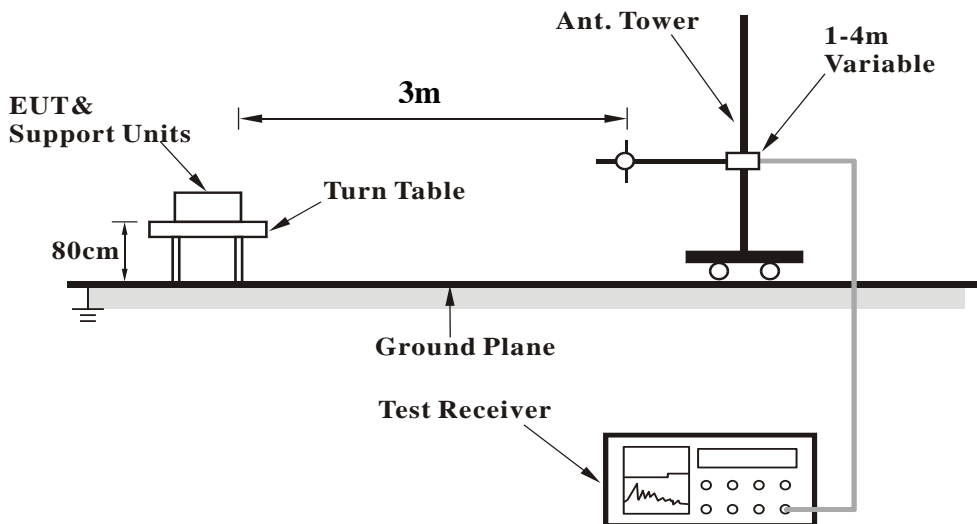


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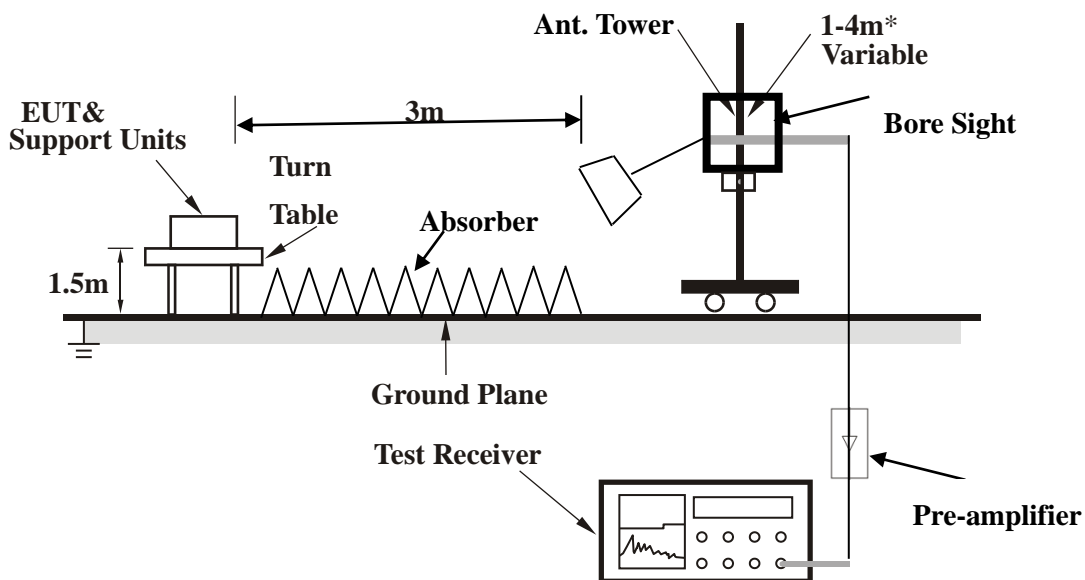
Test Report No.: W7L-P22050011RF01

3.2.5 TEST SETUP

< Frequency Range 30MHz~1GHz >



<Frequency Range above 1GHz>



Note: Above 1G is a directional antenna

Depends on the EUT height and the antenna 3dB beamwidth both, refer to section 7.3 of CISPR 16-2-3.

For the actual test configuration, please refer to the attached file (Test Setup Photo).



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3.2.6 EUT OPERATING CONDITIONS

- a. Set the EUT under full load condition and placed them on a testing table.
- b. Set the transmitter part of EUT under transmission condition continuously at specific channel frequency.
- c. The necessary accessories enable the EUT in full functions.



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3.2.7 TEST RESULTS

BELOW 1GHz WORST-CASE DATA:

30 MHz – 1GHz data:

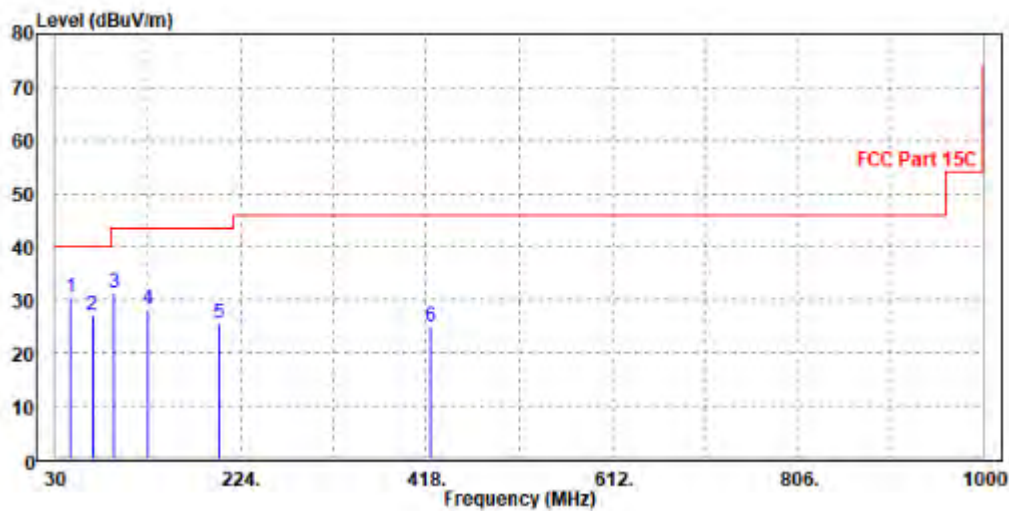
GFSK

CHANNEL	Channel 0	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
46.49	30.49	56.78	40	-9.51	10.41	0.38	37.08	200	0	QP
68.8	27.06	55.67	40	-12.94	7.88	0.47	36.96	200	0	QP
92.08	31.22	58.37	43.5	-12.28	9.23	0.52	36.9	200	0	QP
127	28.19	55.43	43.5	-15.31	8.84	0.6	36.68	200	0	QP
201.69	25.65	49.83	43.5	-17.85	11.37	0.74	36.29	200	0	QP
422.85	25.01	43.74	46	-20.99	16.63	1.11	36.47	200	0	QP

REMARKS:

1. Emission Level(dBuV/m) = Read Level(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value





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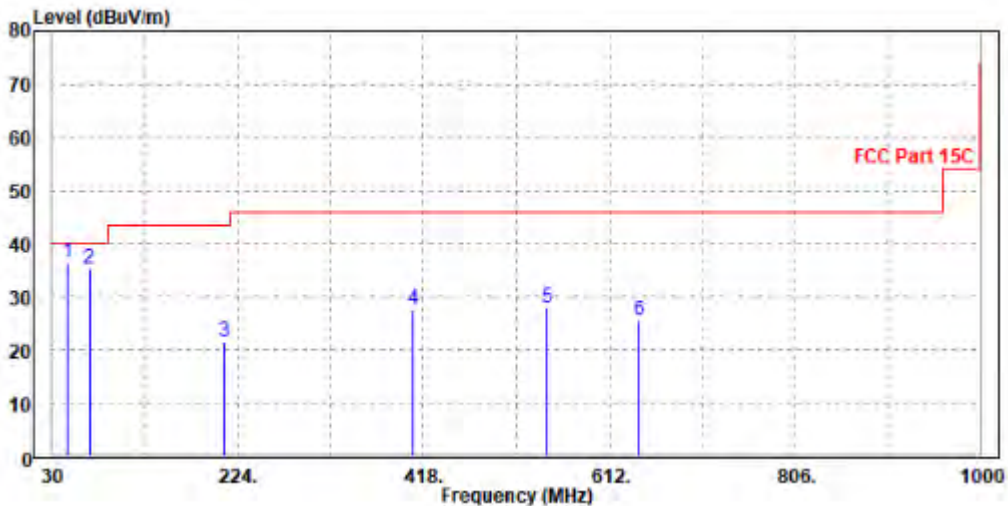
Test Report No.: W7L-P22050011RF01

CHANNEL	Channel 0	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
46.49	36.58	62.32	40	-3.42	10.96	0.38	37.08	100	360	QP
68.8	35.4	63.73	40	-4.6	8.16	0.47	36.96	100	360	QP
209.45	21.61	45.44	43.5	-21.89	11.71	0.75	36.29	100	360	QP
406.36	27.61	46.58	46	-18.39	16.38	1.08	36.43	100	360	QP
547.01	27.84	44.74	46	-18.16	18.54	1.29	36.73	100	360	QP
644.01	25.43	40.99	46	-20.57	20.04	1.41	37.01	100	360	QP

REMARKS:

1. Emission Level(dBuV/m) = Read Level(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value





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Test Report No.: W7L-P22050011RF01

ABOVE 1GHz WORST-CASE DATA:

Note: For higher frequency, the emission is too low to be detected.

GFSK

CHANNEL	TX Channel 0	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.3	59.34	74	-22.7	31.75	6.18	45.97	100	270	Peak
2390	41.62	49.66	54	-12.38	31.75	6.18	45.97	100	270	Average
2402	99.07	107.06	-	-	31.79	6.19	45.97	100	270	Peak
2402	98.58	106.57	-	-	31.79	6.19	45.97	100	270	Average
2483.5	50.4	57.97	74	-23.6	32.05	6.31	45.93	100	270	Peak
2483.5	40.79	48.36	54	-13.21	32.05	6.31	45.93	100	270	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.94	59.59	74	-22.06	32.14	6.18	45.97	100	360	Peak
2390	44.15	51.8	54	-9.85	32.14	6.18	45.97	100	360	Average
2402	99.32	106.94	-	-	32.16	6.19	45.97	100	360	Peak
2402	98.24	105.86	-	-	32.16	6.19	45.97	100	360	Average
2483.5	52.81	60.07	74	-21.19	32.36	6.31	45.93	100	360	Peak
2483.5	44.34	51.6	54	-9.66	32.36	6.31	45.93	100	360	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 2402MHz: Fundamental frequency.



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Test Report No.: W7L-P22050011RF01

CHANNEL	TX Channel 39	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	53.1	61.86	74	-20.9	31.75	5.86	46.37	137	200	Peak
2390	45.73	54.49	54	-8.27	31.75	5.86	46.37	137	200	Average
2441	99.18	107.71	-	-	31.91	5.93	46.37	137	200	Peak
2441	98.79	107.32	-	-	31.91	5.93	46.37	137	200	Average
2483.5	54.02	62.35	74	-19.98	32.05	5.99	46.37	137	200	Peak
2483.5	46.54	54.87	54	-7.46	32.05	5.99	46.37	137	200	Average

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	54.28	62.65	74	-19.72	32.14	5.86	46.37	100	0	Peak
2390	46.29	54.66	54	-7.71	32.14	5.86	46.37	100	0	Average
2441	105.11	113.29			32.26	5.93	46.37	100	0	Peak
2441	104.97	113.15			32.26	5.93	46.37	100	0	Average
2483.5	55.06	63.08	74	-18.94	32.36	5.99	46.37	100	0	Peak
2483.5	48.26	56.28	54	-5.74	32.36	5.99	46.37	100	0	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 2441MHz: Fundamental frequency.



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Test Report No.: W7L-P22050011RF01

CHANNEL	TX Channel 78	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.49	60.25	74	-22.51	31.75	5.86	46.37	137	200	Peak
2390	45.26	54.02	54	-8.74	31.75	5.86	46.37	137	200	Average
2480	92.29	100.64	-	-	32.04	5.98	46.37	137	200	Peak
2480	90.2	98.55	-	-	32.04	5.98	46.37	137	200	Average
2483.5	52.7	61.03	74	-21.3	32.05	5.99	46.37	137	200	Peak
2483.5	46.12	54.45	54	-7.88	32.05	5.99	46.37	137	200	Average

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	52.37	60.74	74	-21.63	32.14	5.86	46.37	100	0	Peak
2390	45.35	53.72	54	-8.65	32.14	5.86	46.37	100	0	Average
2480	98.06	106.1	-	-	32.26	5.93	46.37	100	0	Peak
2480	96.03	104.07	-	-	32.26	5.93	46.37	100	0	Average
2483.5	57.8	65.82	74	-16.2	32.36	5.99	46.37	100	0	Peak
2483.5	49.63	57.65	54	-4.37	32.36	5.99	46.37	100	0	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 2480MHz: Fundamental frequency.



Test Report No.: W7L-P22050011RF01

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BT_8DPSK

CHANNEL	TX Channel 0	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	56.12	64.88	74	-17.88	31.75	5.86	46.37	112	340	Peak
2390	47.86	56.62	54	-6.14	31.75	5.86	46.37	112	340	Average
2402	99.95	108.65	-	-	31.79	5.88	46.37	112	340	Peak
2402	99.16	107.86	-	-	31.79	5.88	46.37	112	340	Average
2483.5	54.88	63.21	74	-19.12	32.05	5.99	46.37	112	340	Peak
2483.5	45.54	53.87	54	-8.46	32.05	5.99	46.37	112	340	Average

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	58.26	66.63	74	-15.74	32.14	5.86	46.37	100	0	Peak
2390	50.88	59.25	54	-3.12	32.14	5.86	46.37	100	0	Average
2402	102.33	110.66	-	-	32.16	5.88	46.37	100	0	Peak
2402	101.32	109.65	-	-	32.16	5.88	46.37	100	0	Average
2483.5	61.33	69.35	74	-12.67	32.36	5.99	46.37	100	0	Peak
2483.5	48.45	56.47	54	-5.55	32.36	5.99	46.37	100	0	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 2402MHz: Fundamental frequency.



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Test Report No.: W7L-P22050011RF01

CHANNEL	TX Channel 39	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	52.04	60.8	74	-21.96	31.75	5.86	46.37	112	340	Peak
2390	43.22	51.98	54	-10.78	31.75	5.86	46.37	112	340	Average
2441	97.11	105.64	-	-	31.91	5.93	46.37	112	340	Peak
2441	96.11	104.64	-	-	31.91	5.93	46.37	112	340	Average
2483.5	52.08	60.41	74	-21.92	32.05	5.99	46.37	112	340	Peak
2483.5	43.68	52.01	54	-10.32	32.05	5.99	46.37	112	340	Average

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	53.08	61.45	74	-20.92	32.14	5.86	46.37	100	0	Peak
2390	45.42	53.79	54	-8.58	32.14	5.86	46.37	100	0	Average
2441	103.4	111.58	-	-	32.26	5.93	46.37	100	0	Peak
2441	102.64	110.82	-	-	32.26	5.93	46.37	100	0	Average
2483.5	56.16	64.18	74	-17.84	32.36	5.99	46.37	100	0	Peak
2483.5	45.51	53.53	54	-8.49	32.36	5.99	46.37	100	0	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 2441MHz: Fundamental frequency.



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Test Report No.: W7L-P22050011RF01

CHANNEL	TX Channel 78	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.36	60.12	74	-22.64	31.75	5.86	46.37	200	50	Peak
2390	43.17	51.93	54	-10.83	31.75	5.86	46.37	200	50	Average
2480	99.11	107.46	-	-	32.04	5.98	46.37	200	50	Peak
2480	91.92	100.27	-	-	32.04	5.98	46.37	200	50	Average
2483.5	53.24	61.57	74	-20.76	32.05	5.99	46.37	200	50	Peak
2483.5	44.52	52.85	54	-9.48	32.05	5.99	46.37	200	50	Average

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.79	60.16	74	-22.21	32.14	5.86	46.37	100	0	Peak
2390	43.79	52.16	54	-10.21	32.14	5.86	46.37	100	0	Average
2480	95.86	103.9	-	-	32.35	5.98	46.37	100	0	Peak
2480	94.35	102.39	-	-	32.35	5.98	46.37	100	0	Average
2483.5	58.05	66.07	74	-15.95	32.36	5.99	46.37	100	0	Peak
2483.5	50.2	58.22	54	-3.8	32.36	5.99	46.37	100	0	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 2480MHz: Fundamental frequency.



Test Report No.: W7L-P22050011RF01

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BT_DQPSK

CHANNEL	TX Channel 0	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	54.79	63.55	74	-19.21	31.75	5.86	46.37	100	70	Peak
2390	47.82	56.58	54	-6.18	31.75	5.86	46.37	100	70	Average
2402	102.88	111.58	-	-	31.79	5.88	46.37	100	70	Peak
2402	102.18	110.88	-	-	31.79	5.88	46.37	100	70	Average
2483.5	58.19	66.52	74	-15.81	32.05	5.99	46.37	100	70	Peak
2483.5	45.36	53.69	54	-8.64	32.05	5.99	46.37	100	70	Average

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	58.47	66.84	74	-15.53	32.14	5.86	46.37	103	0	Peak
2390	50.84	59.21	54	-3.16	32.14	5.86	46.37	103	0	Average
2402	104.27	112.6	-	-	32.16	5.88	46.37	103	0	Peak
2402	102.62	110.95	-	-	32.16	5.88	46.37	103	0	Average
2483.5	60.69	68.71	74	-13.31	32.36	5.99	46.37	103	0	Peak
2483.5	48.49	56.51	54	-5.51	32.36	5.99	46.37	103	0	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 2402MHz: Fundamental frequency.



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Test Report No.: W7L-P22050011RF01

CHANNEL	TX Channel 39	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	52.25	61.01	74	-21.75	31.75	5.86	46.37	200	330	Peak
2390	44.34	53.1	54	-9.66	31.75	5.86	46.37	200	330	Average
2441	97.44	105.97	-	-	31.91	5.93	46.37	200	330	Peak
2441	96.67	105.2	-	-	31.91	5.93	46.37	200	330	Average
2483.5	52.29	60.62	74	-21.71	32.05	5.99	46.37	200	330	Peak
2483.5	44.51	52.84	54	-9.49	32.05	5.99	46.37	200	330	Average

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	52.65	61.02	74	-21.35	32.14	5.86	46.37	103	0	Peak
2390	46.01	54.38	54	-7.99	32.14	5.86	46.37	103	0	Average
2441	102.63	110.81	-	-	32.26	5.93	46.37	103	0	Peak
2441	102.52	110.7	-	-	32.26	5.93	46.37	103	0	Average
2483.5	55.78	63.8	74	-18.22	32.36	5.99	46.37	103	0	Peak
2483.5	45.53	53.55	54	-8.47	32.36	5.99	46.37	103	0	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 2441MHz: Fundamental frequency.



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CHANNEL	TX Channel 78	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	49.99	58.75	74	-24.01	31.75	5.86	46.37	200	50	Peak
2390	42.28	51.04	54	-11.72	31.75	5.86	46.37	200	50	Average
2480	97.14	105.49	-	-	32.04	5.98	46.37	200	50	Peak
2480	91.24	99.59	-	-	32.04	5.98	46.37	200	50	Average
2483.5	51.66	59.99	74	-22.34	32.05	5.99	46.37	200	50	Peak
2483.5	43.76	52.09	54	-10.24	32.05	5.99	46.37	200	50	Average

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	50.22	58.59	74	-23.78	32.14	5.86	46.37	100	0	Peak
2390	43.72	52.09	54	-10.28	32.14	5.86	46.37	100	0	Average
2480	100.04	108.08	-	-	32.35	5.98	46.37	100	0	Peak
2480	89.93	97.97	-	-	32.35	5.98	46.37	100	0	Average
2483.5	57.34	65.36	74	-16.66	32.36	5.99	46.37	100	0	Peak
2483.5	50.26	58.28	54	-3.74	32.36	5.99	46.37	100	0	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 2480MHz: Fundamental frequency.

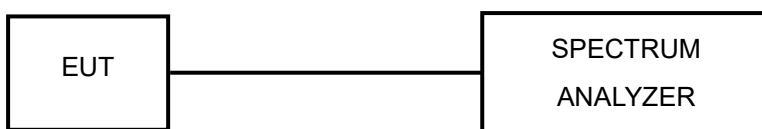


3.3 NUMBER OF HOPPING FREQUENCY USED

3.3.1 LIMIT OF HOPPING FREQUENCY USED

At least 15 channels frequencies, and should be equally spaced.

3.3.2 TEST SETUP



3.3.3 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Power Meter	ANRITSU	ML2495A	1506002	Feb. 22,21	Feb. 21,22
Power Meter	ANRITSU	ML2495A	1506002	Feb. 21,22	Feb. 20,23
EXA Signal Analyzer	KEYSIGHT	N9010A-544	MY54510355	Jun. 03,21	Jun. 02,22
EXA Signal Analyzer	KEYSIGHT	N9010A-544	MY54510355	Jun. 02,22	Jun. 01,23
Power Sensor	ANRITSU	MA2411B	1339352	Feb. 22,21	Feb. 21,22
Power Sensor	ANRITSU	MA2411B	1339352	Feb. 21,22	Feb. 20,23
CBT32 BLUETOOTH TESTER 4HU	Rohde&Schwarz	CBT32	101176	Feb. 25,21	Feb. 24,22
CBT32 BLUETOOTH TESTER 4HU	Rohde&Schwarz	CBT32	101176	Feb. 24,22	Feb. 23,23

NOTE:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
2. The test was performed in RF Oven room.



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3.3.4 TEST PROCEDURES

- a. Check the calibration of the measuring instrument (SA) using either an internal calibrator or a known signal from an external generator.
- b. Turn on the EUT and connect its antenna terminal to measurement via a low loss cable. Then set it to any one measured frequency within its operating range and make sure the instrument is operated in its linear range.
- c. Set the SA on MaxHold Mode, and then keep the EUT in hopping mode. Record all the signals from each channel until each one has been recorded.
- d. Set the SA on View mode and then plot the result on SA screen.
- e. Repeat above procedures until all frequencies measured were completed.

3.3.5 DEVIATION FROM TEST STANDARD

No deviation.

3.3.6 TEST RESULTS

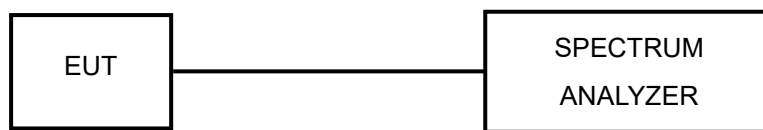
Please Refer to Appendix 1 of this test report.

3.4 DWELL TIME ON EACH CHANNEL

3.4.1 LIMIT OF DWELL TIME USED

The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

3.4.2 TEST SETUP



3.4.3 TEST INSTRUMENTS

Refer to section 3.3.3 to get information of above instrument.

3.4.4 TEST PROCEDURES

- a. Check the calibration of the measuring instrument (SA) using either an internal calibrator or a known signal from an external generator.
- b. Turn on the EUT and connect its antenna terminal to measurement via a low loss cable. Then set it to any one measured frequency within its operating range and make sure the instrument is operated in its linear range.
- c. Adjust the center frequency of SA on any frequency be measured and set SA to zero span mode. And then, set RBW and VBW of spectrum analyzer to proper value.
- d. Measure the time duration of one transmission on the measured frequency. And then plot the result with time difference of this time duration.
- e. Repeat above procedures until all different time-slot modes have been completed.



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3.4.5 DEVIATION FROM TEST STANDARD

No deviation.

3.4.6 TEST RESULTS

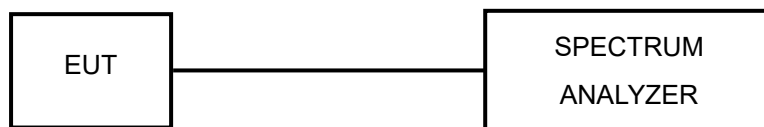
Please Refer to Appendix 1 of this test report.

3.5 CHANNEL BANDWIDTH

3.5.1 LIMITS OF CHANNEL BANDWIDTH

For frequency hopping system operating in the 2400-2483.5MHz, If the 20dB bandwidth of hopping channel is greater than 25kHz, two-thirds 20dB bandwidth of hopping channel shall be a minimum limit for the hopping channel separation.

3.5.2 TEST SETUP



3.5.3 TEST INSTRUMENTS

Refer to section 3.3.3 to get information of above instrument.

3.5.4 TEST PROCEDURE

- a. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- b. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
- c. Measure the frequency difference of two frequencies that were attenuated 20dB from the reference level. Record the frequency difference as the emission bandwidth.
- d. Repeat above procedures until all frequencies measured were complete.

3.5.5 DEVIATION FROM TEST STANDARD

No deviation.



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3.5.6 EUT OPERATING CONDITION

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

3.5.7 TEST RESULTS

Please Refer to Appendix 1 of this test report.

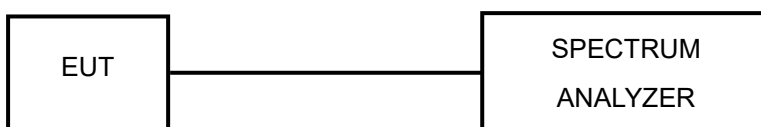


3.6 HOPPING CHANNEL SEPARATION

3.6.1 LIMIT OF HOPPING CHANNEL SEPARATION

At least 25kHz or two-third of 20dB hopping channel bandwidth (whichever is greater).

3.6.2 TEST SETUP



3.6.3 TEST INSTRUMENTS

Refer to section 3.3.3 to get information of above instrument.

3.6.4 TEST PROCEDURES

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range.
3. By using the MaxHold function record the separation of two adjacent channels.
4. Measure the frequency difference of these two adjacent channels by SA MARK function. And then plot the result on SA screen.
5. Repeat above procedures until all frequencies measured were complete.

3.6.5 DEVIATION FROM TEST STANDARD

No deviation.

3.6.6 TEST RESULTS

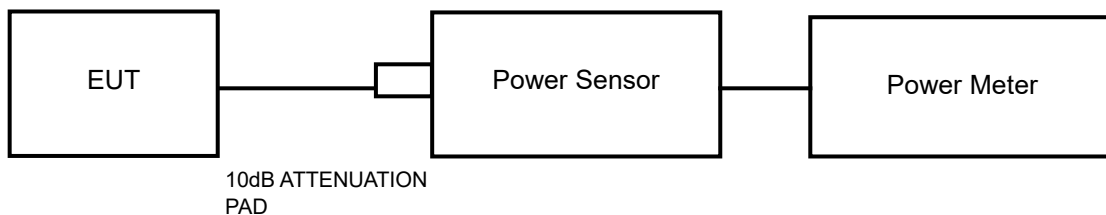
Please Refer to Appendix 1 of this test report.

3.7 MAXIMUM OUTPUT POWER

3.7.1 LIMITS OF MAXIMUM OUTPUT POWER MEASUREMENT

The Maximum Output Power Measurement is 125mW.

3.7.2 TEST SETUP



3.7.3 TEST INSTRUMENTS

Refer to section 3.3.3 to get information of above instrument.

3.7.4 TEST PROCEDURES

A peak power sensor was used on the output port of the EUT. A power meter was used to read the response of the peak power sensor. Record the power level.

3.7.5 DEVIATION FROM TEST STANDARD

No deviation.

3.7.6 EUT OPERATING CONDITION

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.



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3.7.7 TEST RESULTS

Please Refer to Appendix 1 of this test report.



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3.8 OUT OF BAND MEASUREMENT

3.8.1 LIMITS OF OUT OF BAND MEASUREMENT

Below -20dB of the highest emission level of operating band (in 100KHz RBW).

3.8.2 TEST INSTRUMENTS

Refer to section 3.3.3 to get information of above instrument.

3.8.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer via a low loss cable. Spectrum Analyzer was set RBW to 100 kHz and VBW to 300 kHz with suitable frequency span including 100 MHz bandwidth from band edge. Detector = PEAK and Trace mode = Max Hold. The band edges was measured and recorded.

3.8.4 DEVIATION FROM TEST STANDARD

No deviation.

3.8.5 EUT OPERATING CONDITION

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

3.8.6 TEST RESULTS

Please Refer to Appendix 1 of this test report.



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4 PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).



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5 APPENDIX A – MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications are made to the EUT by the lab during the test.



APPENDIX 1:

20DB EMISSION BANDWIDTH

TEST RESULT

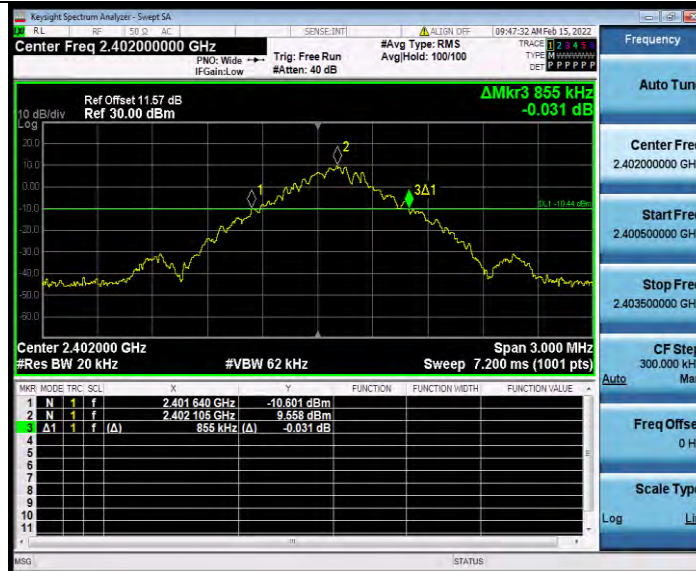
TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.855	2401.640	2402.495	---	PASS
		2441	0.861	2440.637	2441.498	---	PASS
		2480	0.933	2479.637	2480.570	---	PASS
2DH5	Ant1	2402	1.260	2401.463	2402.723	---	PASS
		2441	1.329	2440.430	2441.759	---	PASS
		2480	1.338	2479.430	2480.768	---	PASS
3DH5	Ant1	2402	1.260	2401.451	2402.711	---	PASS
		2441	1.260	2440.451	2441.711	---	PASS
		2480	1.260	2479.454	2480.714	---	PASS



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TEST GRAPHS



DH5_Ant1_2402



DH5_Ant1_2441



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DH5_Ant1_2480

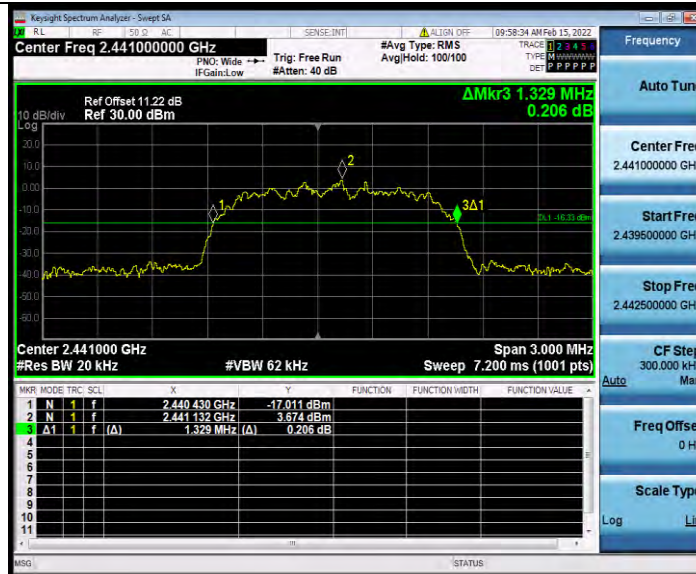


2DH5_Ant1_2402

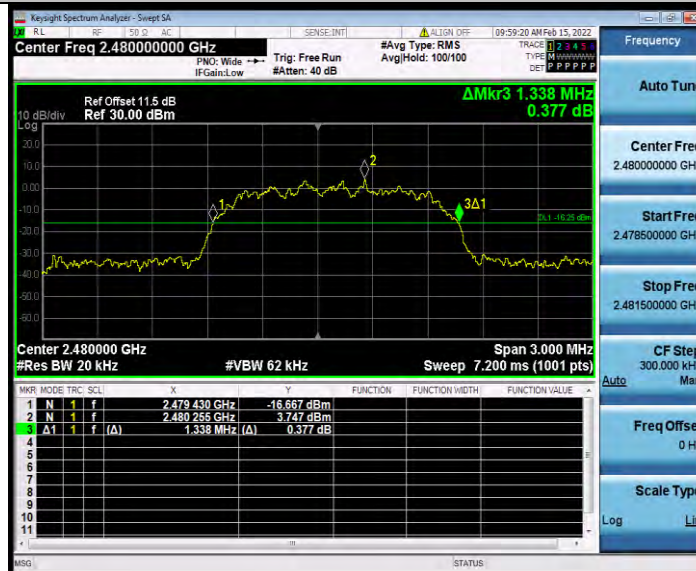


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2DH5_Ant1_2441



2DH5_Ant1_2480



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3DH5_Ant1_2402

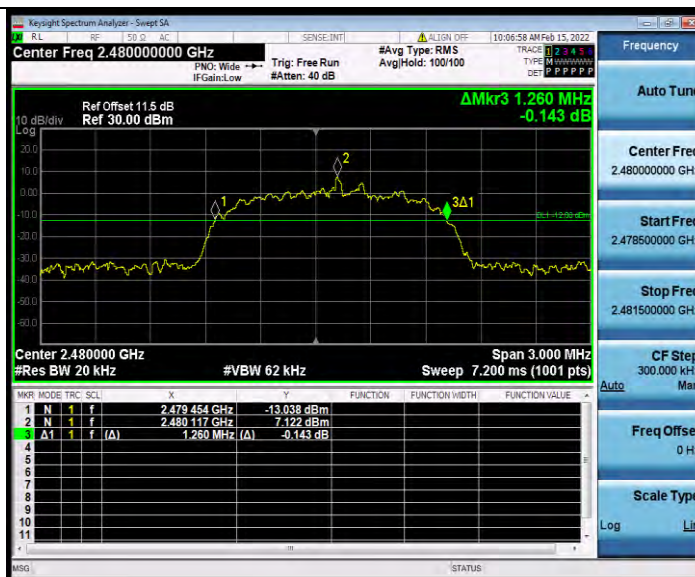


3DH5_Ant1_2441



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3DH5_Ant1_2480



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MAXIMUM CONDUCTED OUTPUT POWER TEST RESULT PEAK

TestMode	Antenna	Channel	Peak Power[dBm]	Peak Power[mw]	Conducted Limit[mw]	Verdict	Power setting
DH5	Ant1	2402	10.52	11.27	≤125	PASS	4
		2441	10.35	10.84	≤125	PASS	4
		2480	10.38	10.91	≤125	PASS	4
2DH5	Ant1	2402	10.14	10.33	≤125	PASS	4
		2441	9.78	9.51	≤125	PASS	4
		2480	9.96	9.91	≤125	PASS	4
3DH5	Ant1	2402	10.35	10.84	≤125	PASS	4
		2441	10.01	10.02	≤125	PASS	4
		2480	10.17	10.40	≤125	PASS	4

TEST RESULT AVERAGE

TestMode	Antenna	Channel	Average Power	Conducted Limit[mw]	Verdict	Power setting
DH5	Ant1	2402	9.53	/	PASS	4
		2441	9.32	/	PASS	4
		2480	9.37	/	PASS	4
2DH5	Ant1	2402	7.17	/	PASS	4
		2441	6.58	/	PASS	4
		2480	7.04	/	PASS	4
3DH5	Ant1	2402	7.18	/	PASS	4
		2441	6.53	/	PASS	4
		2480	7.15	/	PASS	4



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CARRIER FREQUENCY SEPARATION

TEST RESULT

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.116	≥ 0.933	PASS
2DH5	Ant1	Hop	0.982	≥ 0.892	PASS
3DH5	Ant1	Hop	1.016	≥ 0.840	PASS

TEST GRAPHS



DH5_Ant1_Hop



2DH5_Ant1_Hop



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3DH5_Ant1_Hop



Test Report No.: W7L-P22050011RF01

TIME OF OCCUPANCY

TEST RESULT

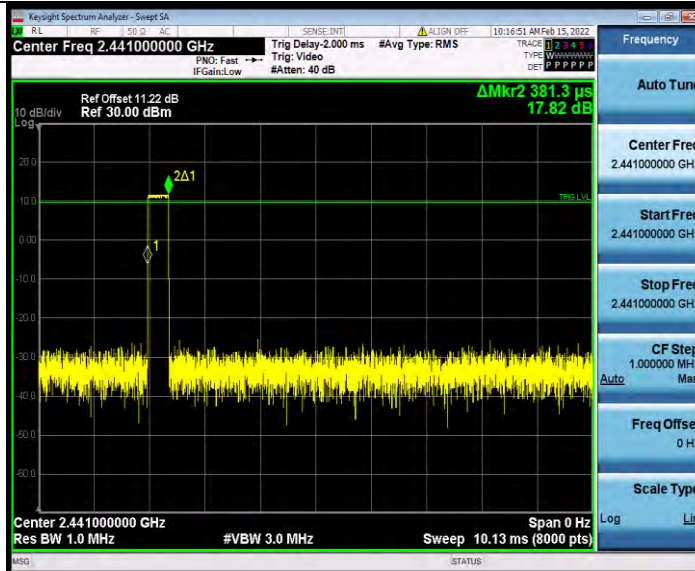
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.38	320	0.122	≤0.4	PASS
DH3	Ant1	Hop	1.64	200	0.327	≤0.4	PASS
DH5	Ant1	Hop	2.88	90	0.26	≤0.4	PASS
2DH1	Ant1	Hop	0.39	320	0.124	≤0.4	PASS
2DH3	Ant1	Hop	1.64	150	0.246	≤0.4	PASS
2DH5	Ant1	Hop	2.89	100	0.289	≤0.4	PASS
3DH1	Ant1	Hop	0.39	320	0.124	≤0.4	PASS
3DH3	Ant1	Hop	1.64	160	0.262	≤0.4	PASS
3DH5	Ant1	Hop	2.89	80	0.231	≤0.4	PASS



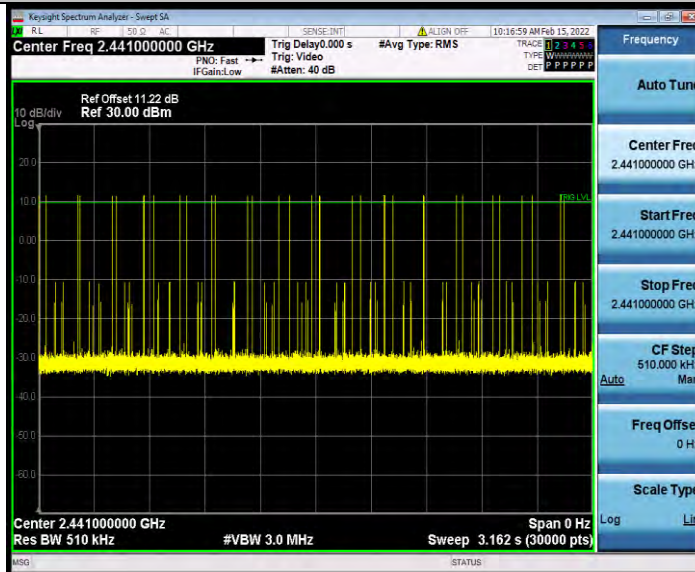
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TEST GRAPHS



DH1_Ant1_Hop

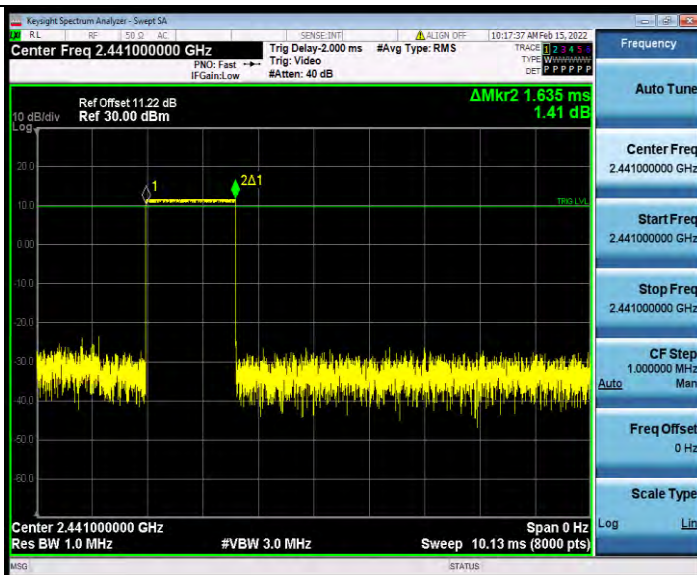


DH1_Ant1_Hop



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DH3_Ant1_Hop

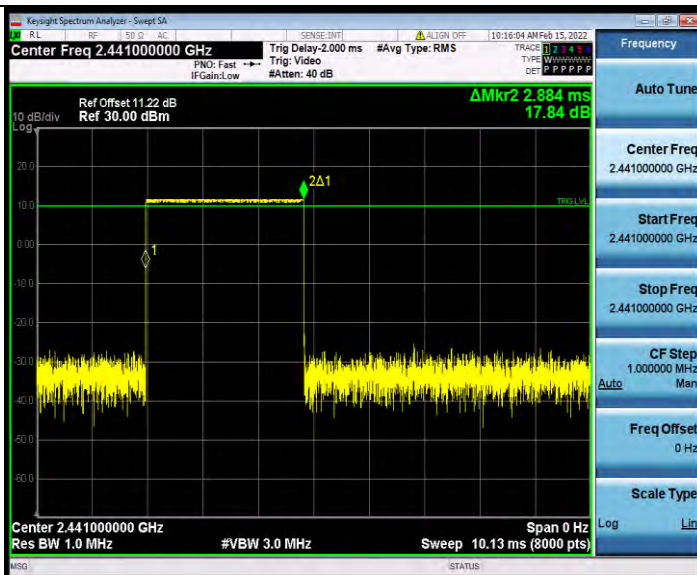


DH3_Ant1_Hop

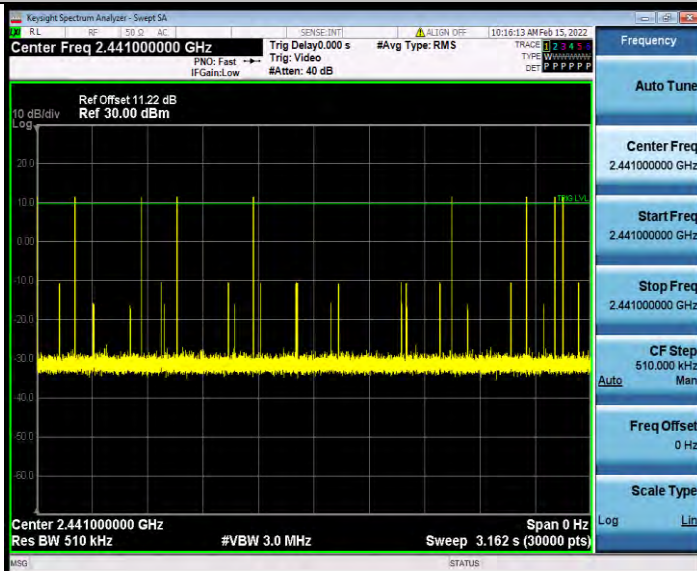


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Test Report No.: W7L-P22050011RF01



DH5_Ant1_Hop

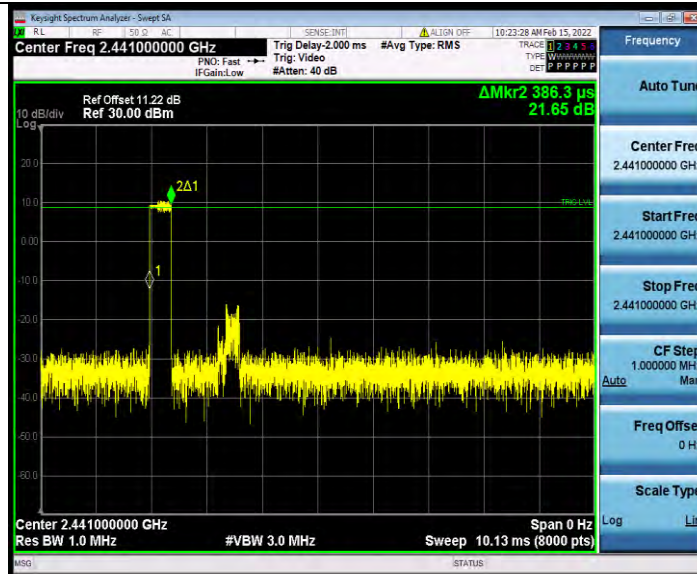


DH5_Ant1_Hop

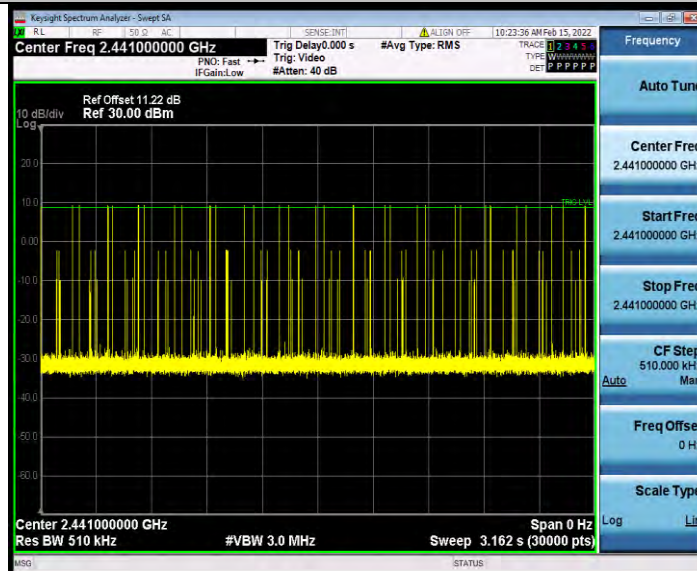


BUREAU VERITAS

Test Report No.: W7L-P22050011RF01



2DH1_Ant1_Hop

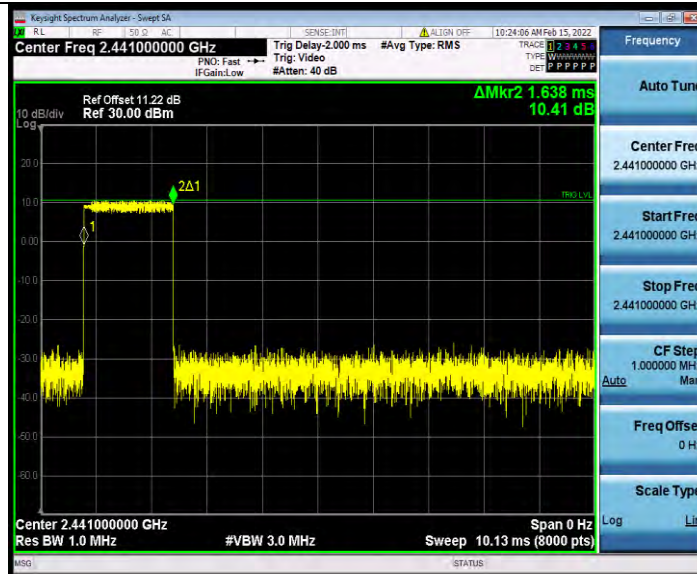


2DH1_Ant1_Hop

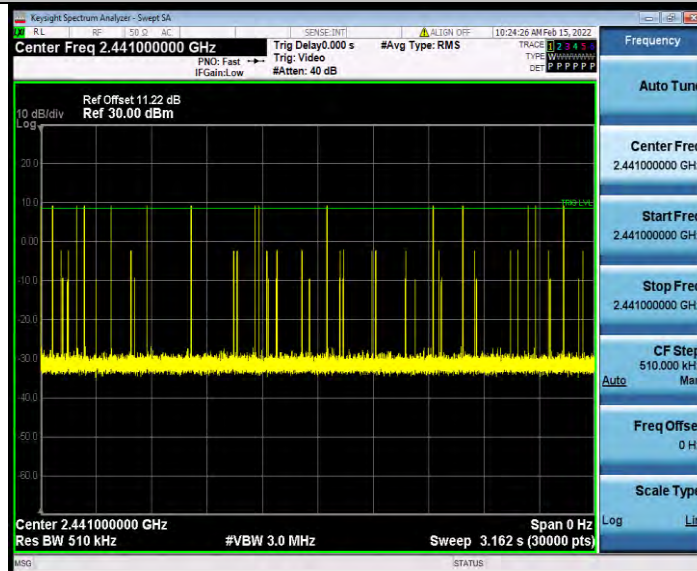


BUREAU VERITAS

Test Report No.: W7L-P22050011RF01



2DH3_Ant1_Hop



2DH3_Ant1_Hop

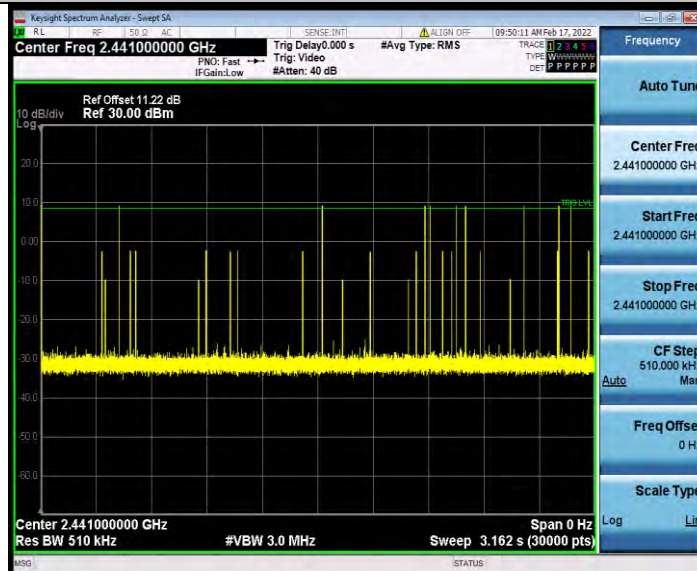


BUREAU VERITAS

Test Report No.: W7L-P22050011RF01



2DH5_Ant1_Hop

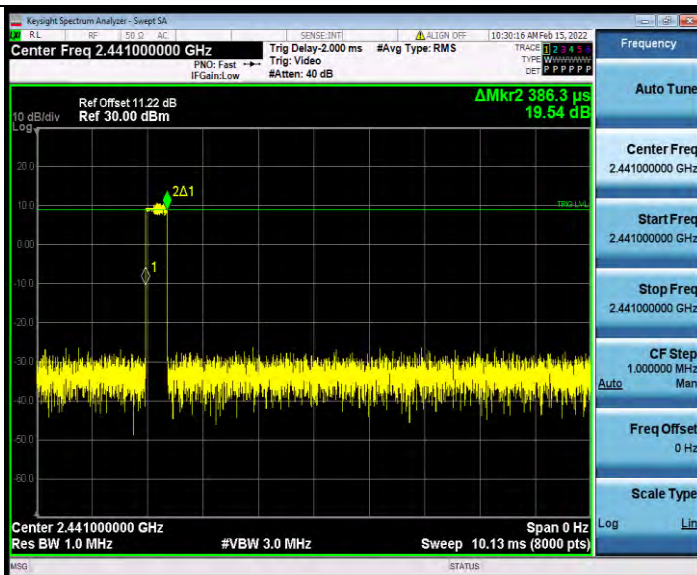


2DH5_Ant1_Hop

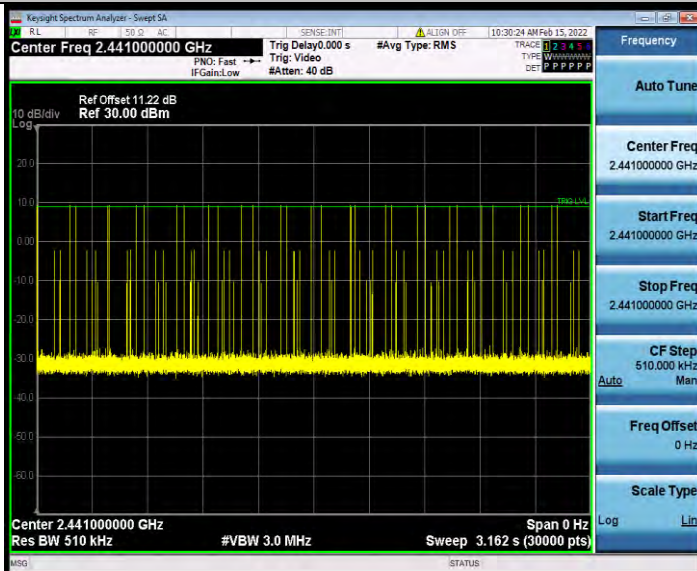


BUREAU VERITAS

Test Report No.: W7L-P22050011RF01



3DH1_Ant1_Hop

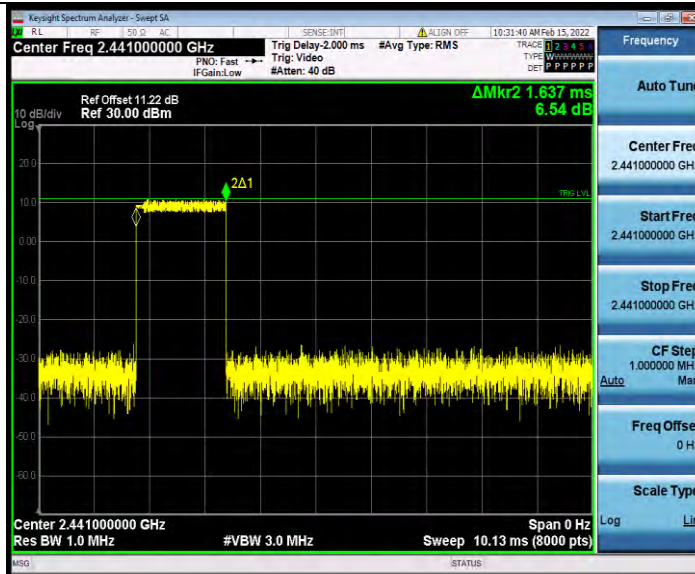


3DH1_Ant1_Hop

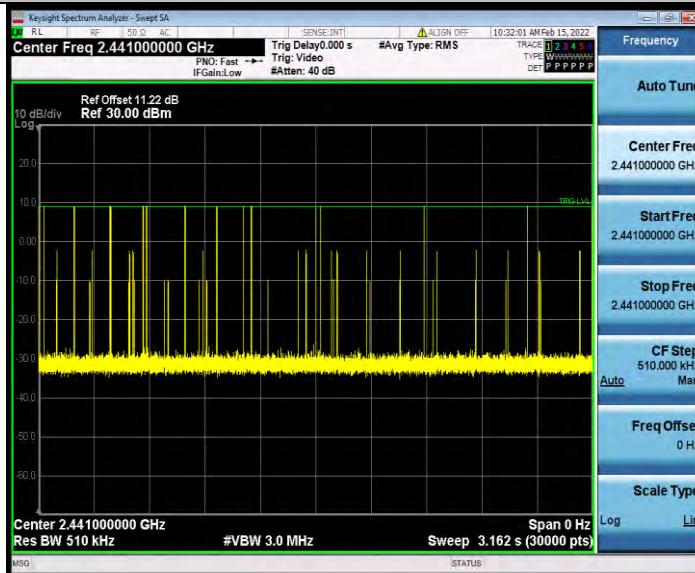


BUREAU VERITAS

Test Report No.: W7L-P22050011RF01



3DH3_Ant1_Hop

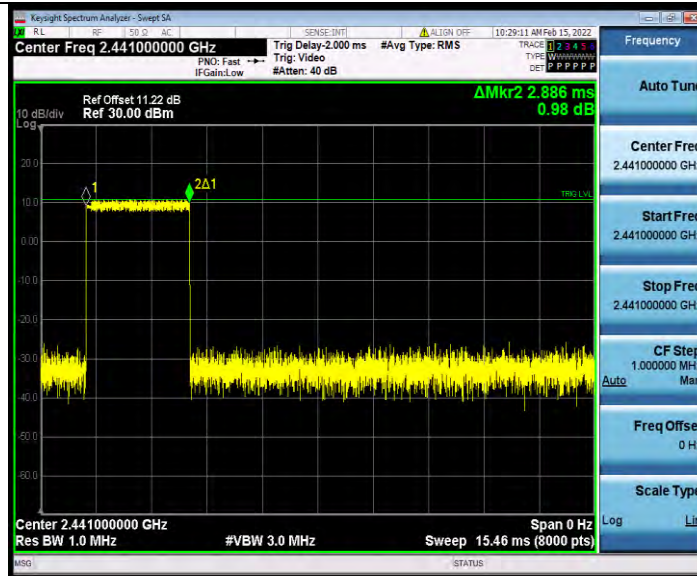


3DH3_Ant1_Hop

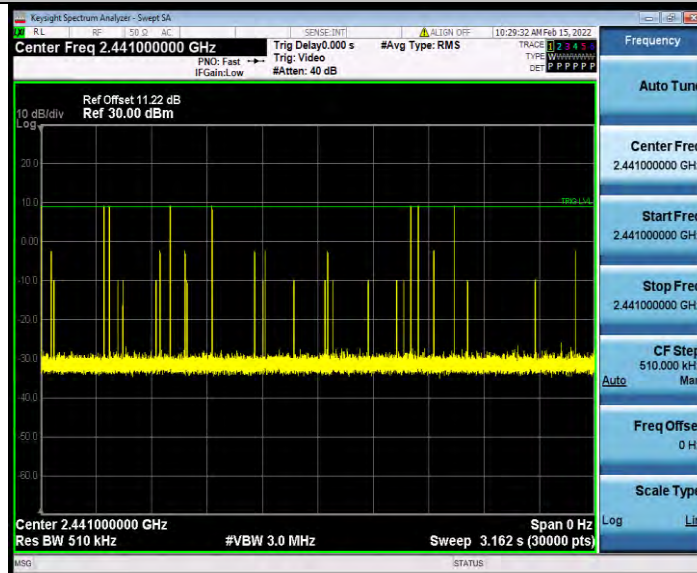


BUREAU VERITAS

Test Report No.: W7L-P22050011RF01



3DH5_Ant1_Hop



3DH5_Ant1_Hop



Test Report No.: W7L-P22050011RF01

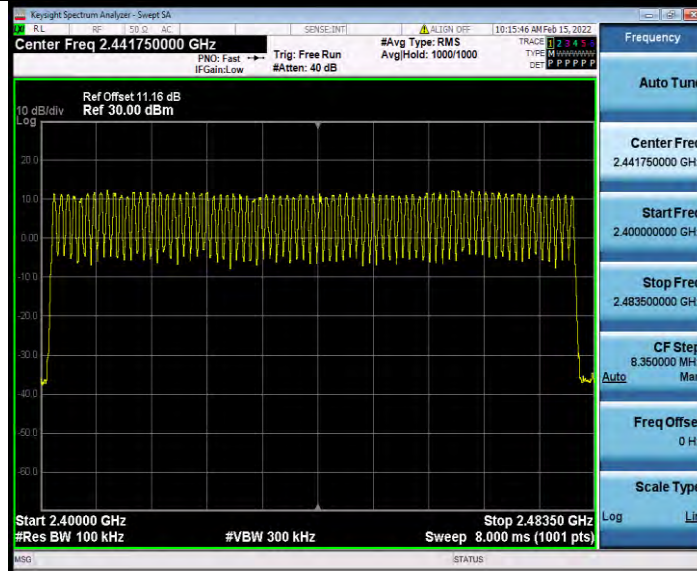
NUMBER OF HOPPING CHANNELS

TEST RESULT

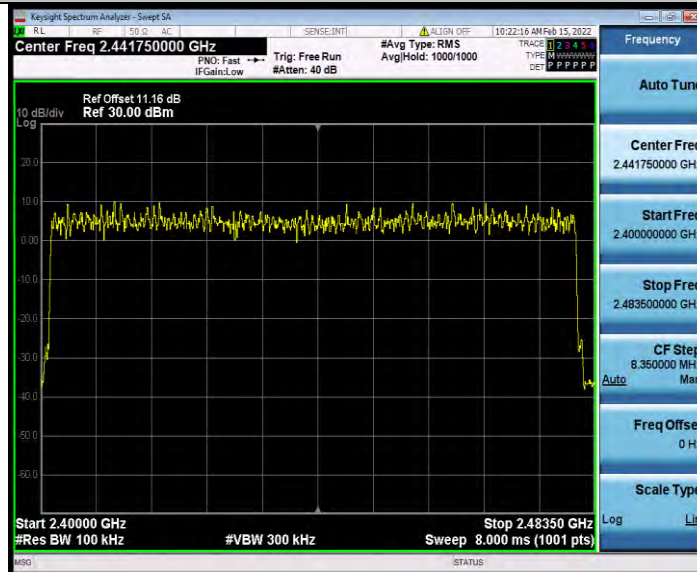
TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS



TEST GRAPHS



DH5_Ant1_Hop

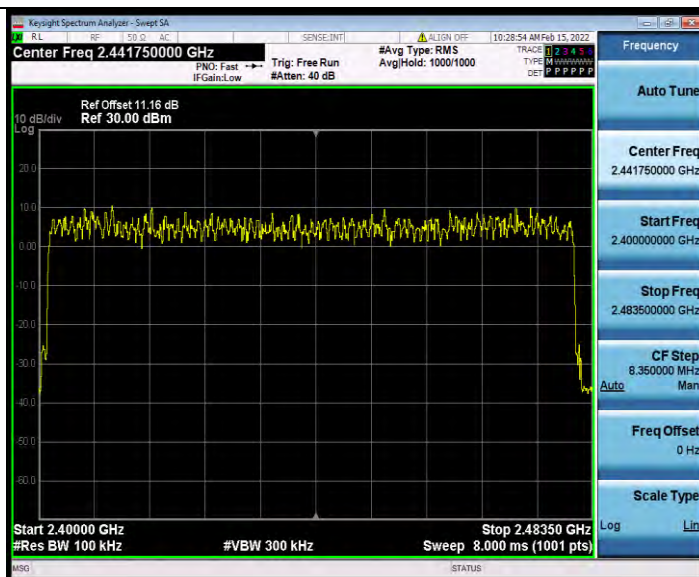


2DH5_Ant1_Hop



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3DH5_Ant1_Hop



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BAND EDGE MEASUREMENTS

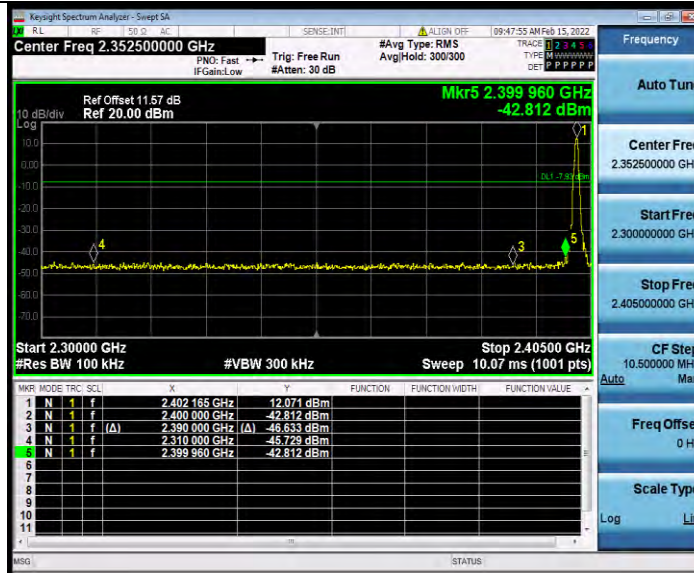
TEST RESULT

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	12.07	-42.81	≤-7.93	PASS
		High	2480	11.77	-43.39	≤-8.24	PASS
		Low	Hop_2402	11.98	-44.58	≤-8.02	PASS
		High	Hop_2480	11.58	-44.01	≤-8.42	PASS
2DH5	Ant1	Low	2402	10.51	-44.03	≤-9.49	PASS
		High	2480	10.01	-43.04	≤-9.99	PASS
		Low	Hop_2402	10.09	-44	≤-9.91	PASS
		High	Hop_2480	7.38	-42.91	≤-12.62	PASS
3DH5	Ant1	Low	2402	9.78	-43.48	≤-10.22	PASS
		High	2480	9.99	-43.61	≤-10.01	PASS
		Low	Hop_2402	6.53	-44.23	≤-13.47	PASS
		High	Hop_2480	8.87	-43.24	≤-11.13	PASS

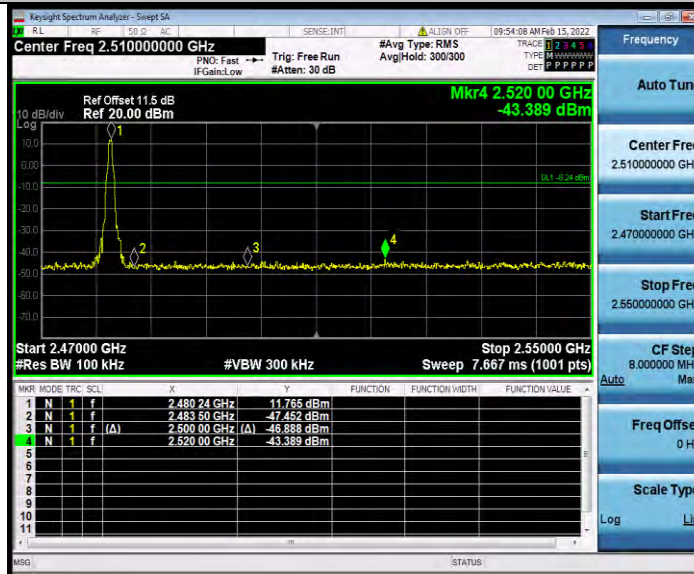


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TEST GRAPHS



DH5_Ant1_Low_2402

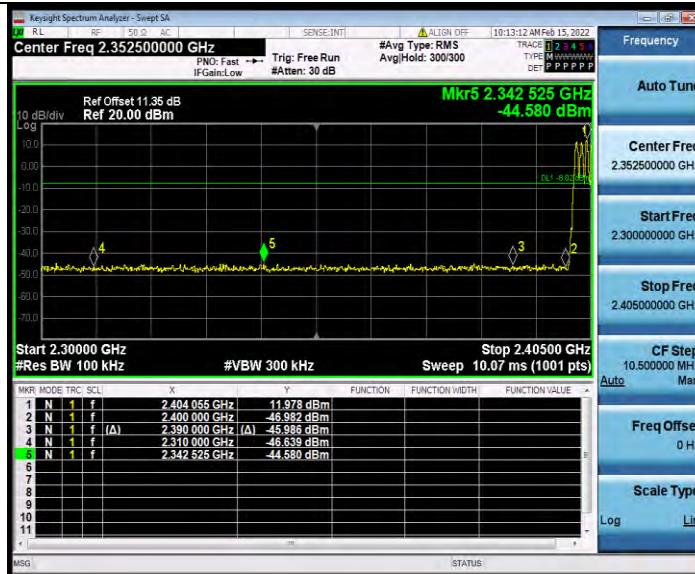


DH5_Ant1_High_2480



BUREAU VERITAS

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DH5_Ant1_Low_Hop_2402

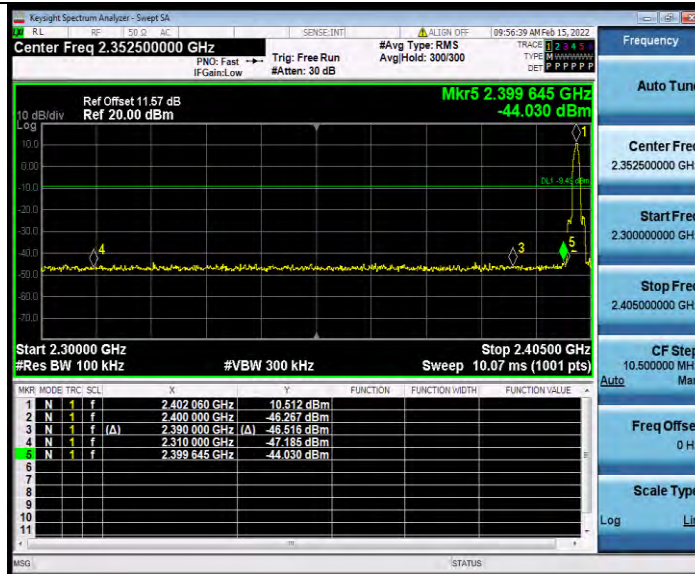


DH5_Ant1_High_Hop_2480

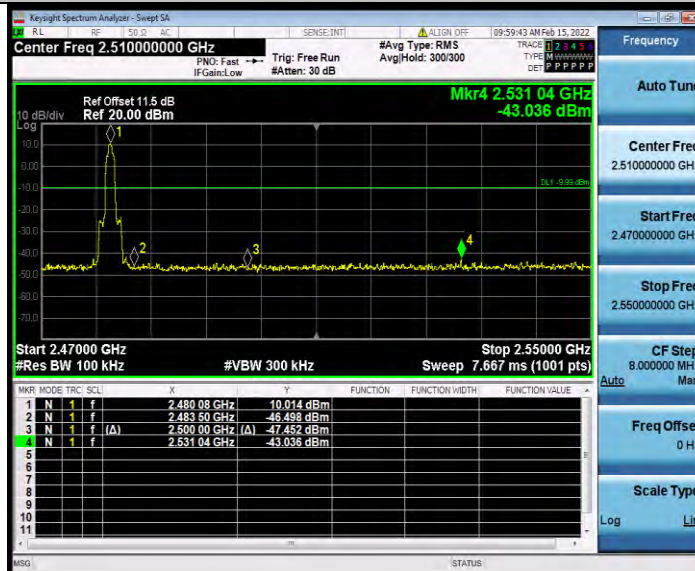


BUREAU VERITAS

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2DH5_Ant1_Low_2402

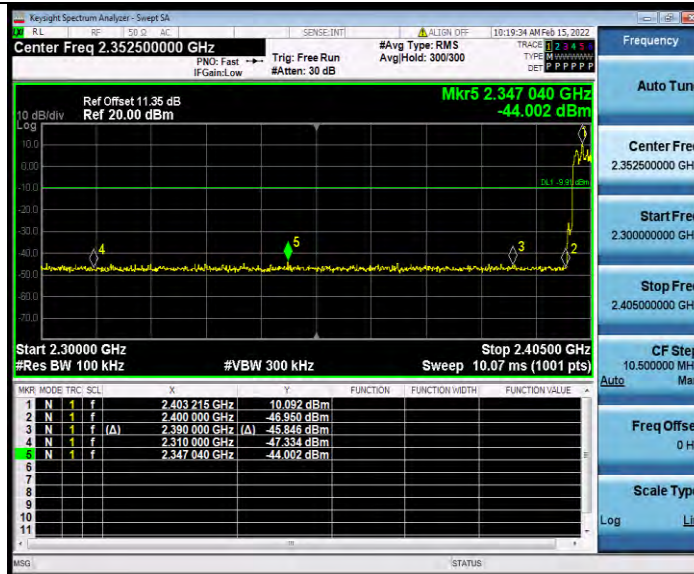


2DH5_Ant1_High_2480

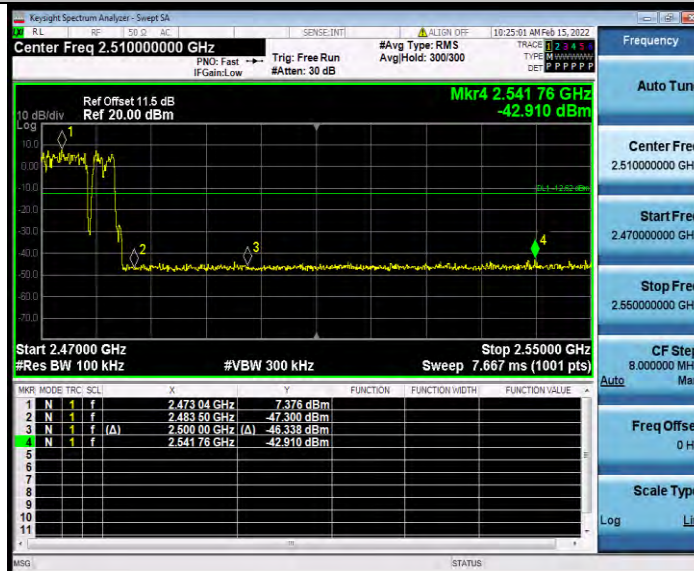


BUREAU VERITAS

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2DH5_Ant1_Low_Hop_2402

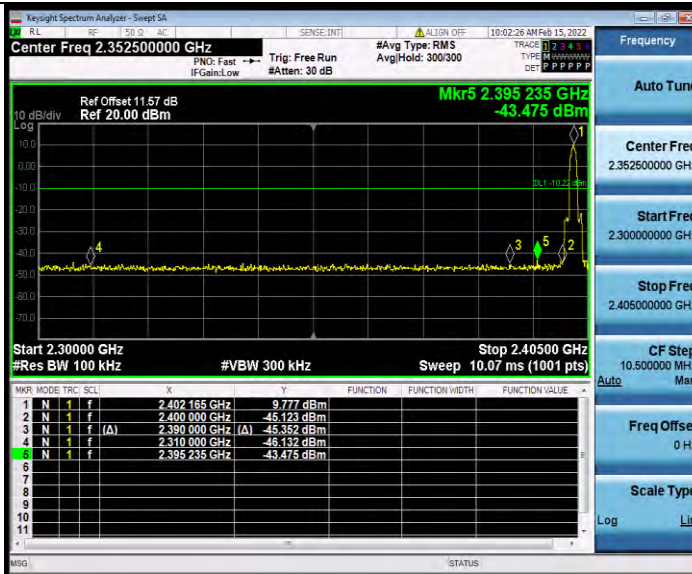


2DH5_Ant1_High_Hop_2480

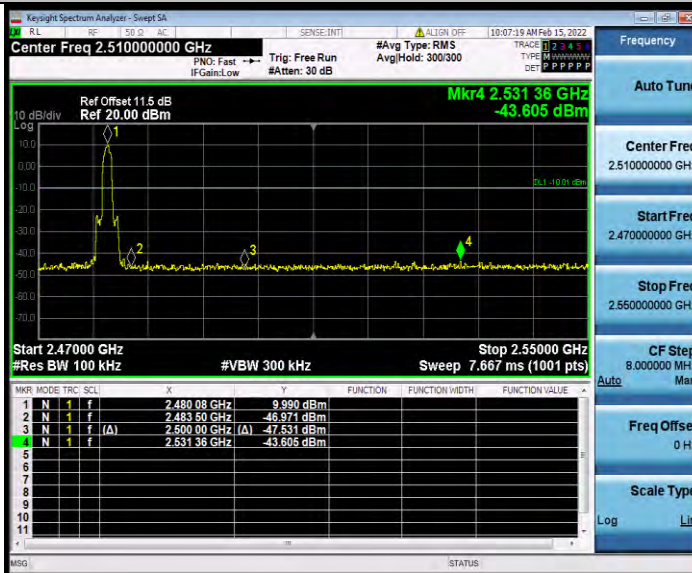


BUREAU VERITAS

Test Report No.: W7L-P22050011RF01



3DH5_Ant1_Low_2402

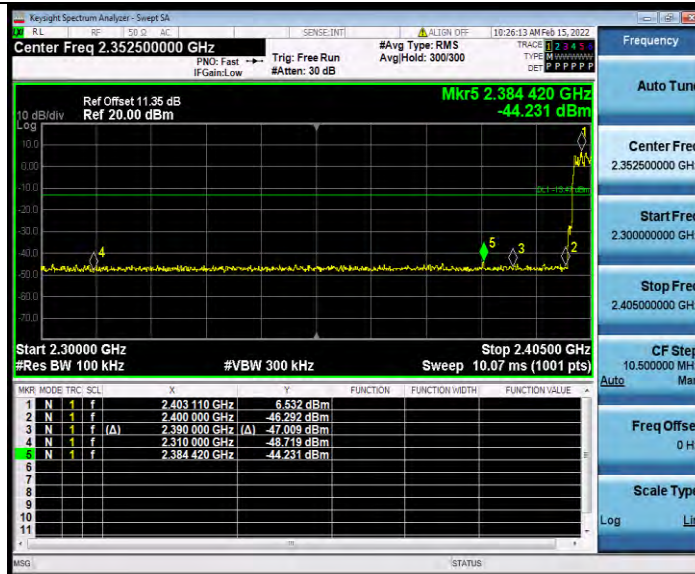


3DH5_Ant1_High_2480

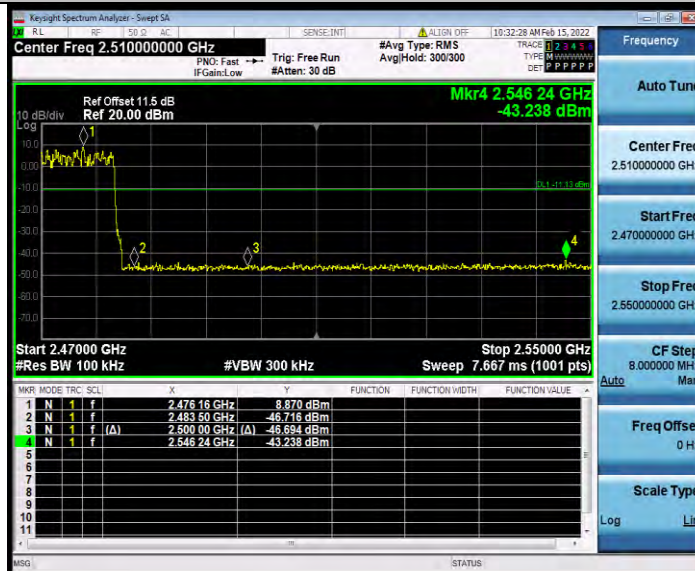


BUREAU VERITAS

Test Report No.: W7L-P22050011RF01



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480



Test Report No.: W7L-P22050011RF01

CONDUCTED SPURIOUS EMISSION

TEST RESULT

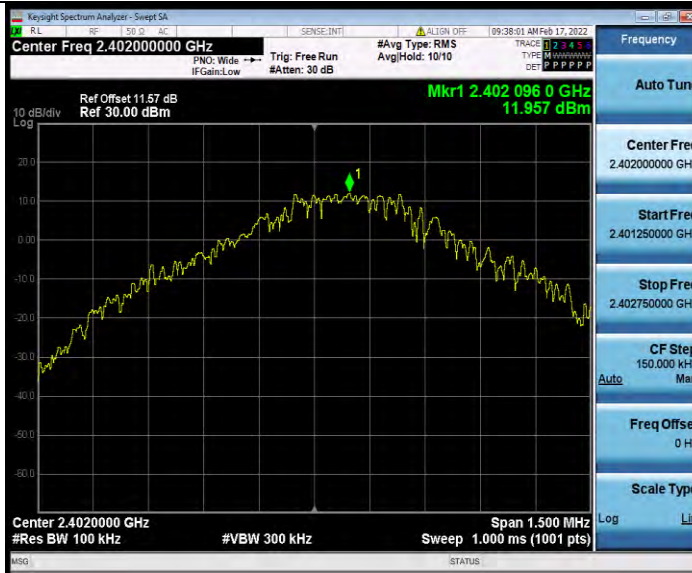
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	11.96	11.96	---	PASS
			30~1000	11.96	-54.11	≤-8.04	PASS
			1000~26500	11.96	-37.73	≤-8.04	PASS
		2441	Reference	10.74	10.74	---	PASS
			30~1000	10.74	-54.38	≤-9.26	PASS
			1000~26500	10.74	-38.6	≤-9.26	PASS
		2480	Reference	10.86	10.86	---	PASS
			30~1000	10.86	-53.92	≤-9.14	PASS
			1000~26500	10.86	-37.82	≤-9.14	PASS
2DH5	Ant1	2402	Reference	10.68	10.68	---	PASS
			30~1000	10.68	-53.86	≤-9.33	PASS
			1000~26500	10.68	-37.61	≤-9.33	PASS
		2441	Reference	6.14	6.14	---	PASS
			30~1000	6.14	-54.57	≤-13.86	PASS
			1000~26500	6.14	-38.28	≤-13.86	PASS
		2480	Reference	9.71	9.71	---	PASS
			30~1000	9.71	-53.82	≤-10.29	PASS
			1000~26500	9.71	-38.16	≤-10.29	PASS
3DH5	Ant1	2402	Reference	8.20	8.20	---	PASS
			30~1000	8.20	-53.71	≤-11.8	PASS
			1000~26500	8.20	-38.09	≤-11.8	PASS
		2441	Reference	6.40	6.40	---	PASS
			30~1000	6.40	-53.58	≤-13.61	PASS
			1000~26500	6.40	-37.77	≤-13.61	PASS
		2480	Reference	7.21	7.21	---	PASS
			30~1000	7.21	-54.32	≤-12.79	PASS
			1000~26500	7.21	-38.73	≤-12.79	PASS



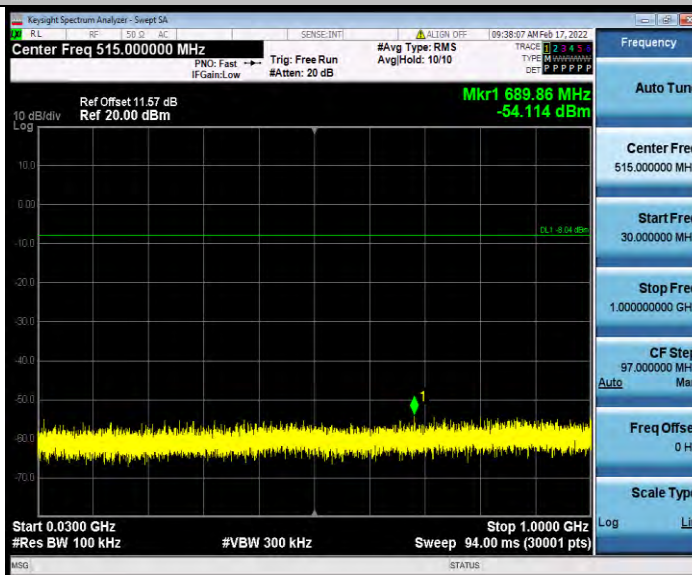
BUREAU VERITAS

Test Report No.: W7L-P22050011RF01

TEST GRAPHS



DH5_Ant1_2402_0~Reference



DH5_Ant1_2402_30~1000



BUREAU VERITAS

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DH5_Ant1_2402_1000~26500



DH5_Ant1_2441_0~Reference

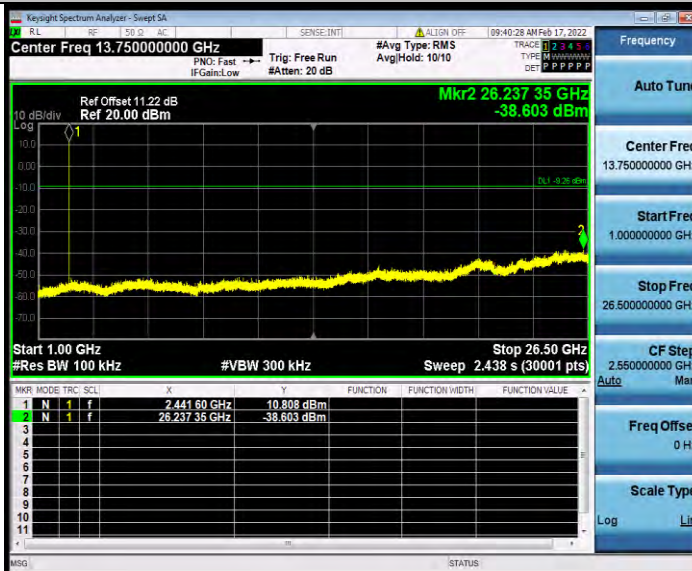


BUREAU VERITAS

Test Report No.: W7L-P22050011RF01



DH5_Ant1_2441_30~1000



DH5_Ant1_2441_1000~26500

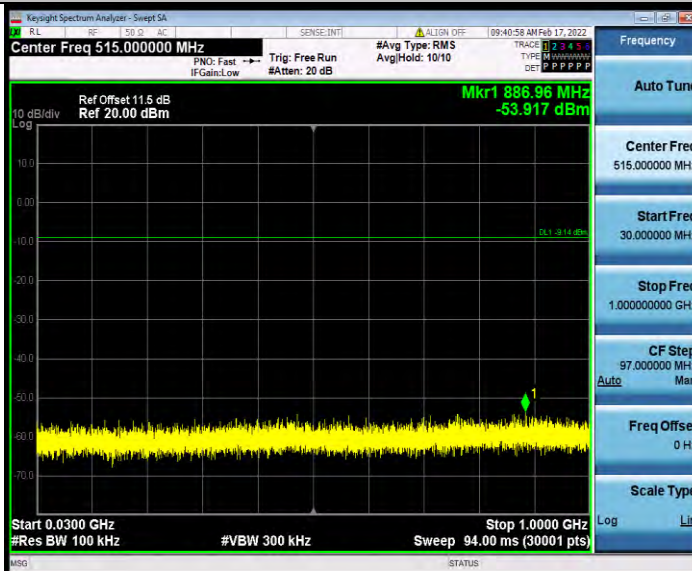


BUREAU VERITAS

Test Report No.: W7L-P22050011RF01



DH5_Ant1_2480_0~Reference



DH5_Ant1_2480_30~1000



BUREAU VERITAS

Test Report No.: W7L-P22050011RF01



DH5_Ant1_2480_1000~26500

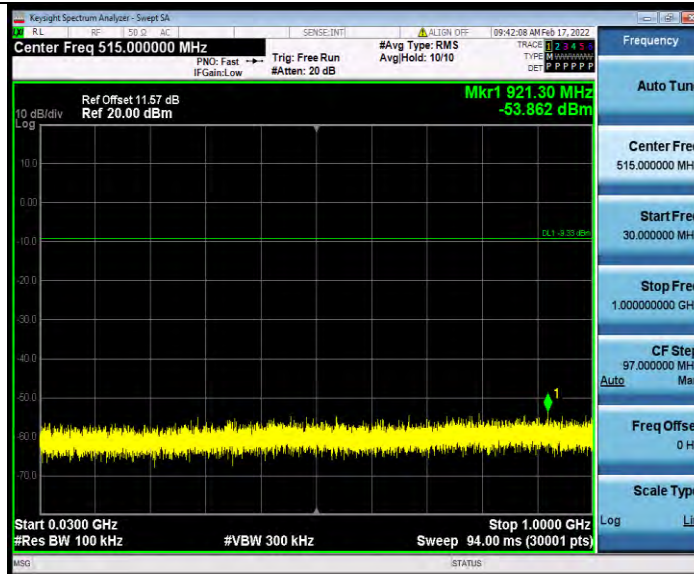


2DH5_Ant1_2402_0~Reference

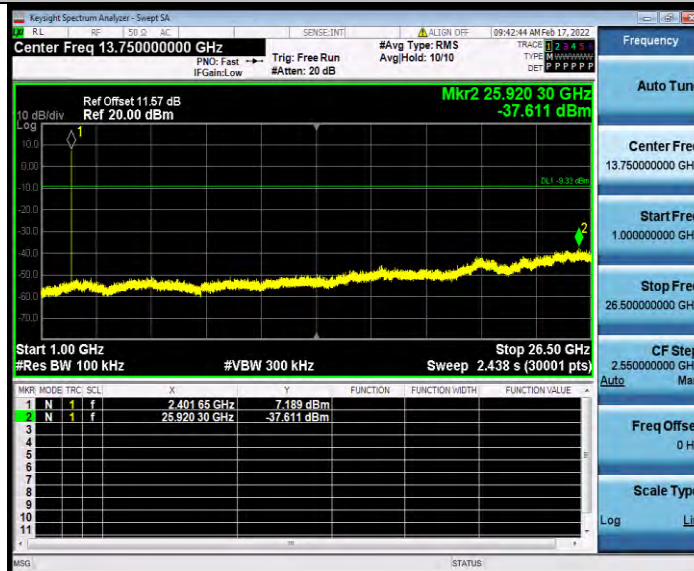


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Test Report No.: W7L-P22050011RF01



2DH5_Ant1_2402_30~1000



2DH5_Ant1_2402_1000~26500



BUREAU VERITAS

Test Report No.: W7L-P22050011RF01



2DH5_Ant1_2441_0~Reference



2DH5_Ant1_2441_30~1000



BUREAU VERITAS

Test Report No.: W7L-P22050011RF01



2DH5_Ant1_2441_1000~26500

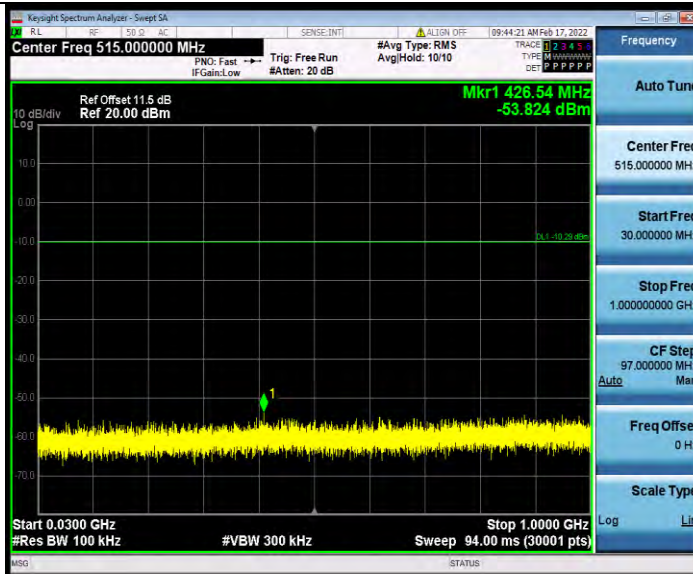


2DH5_Ant1_2480_0~Reference

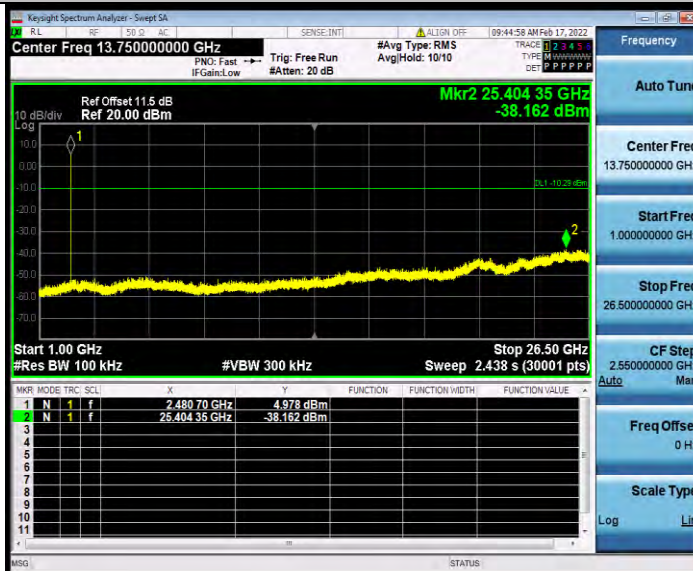


BUREAU VERITAS

Test Report No.: W7L-P22050011RF01



2DH5_Ant1_2480_30~1000

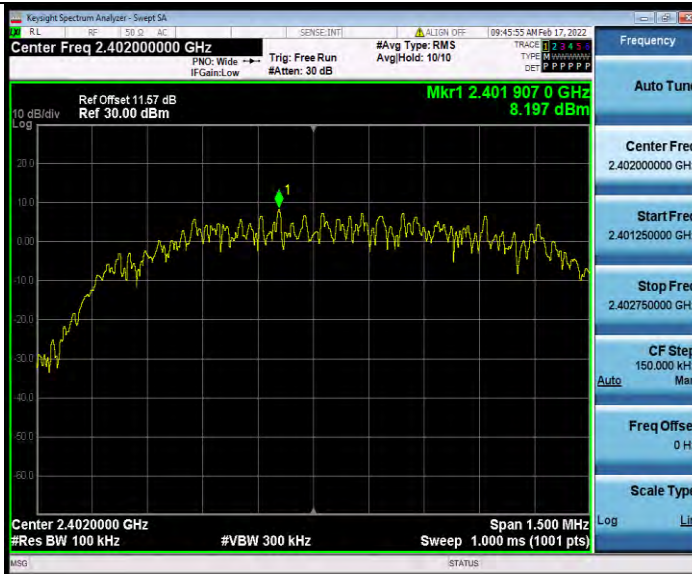


2DH5_Ant1_2480_1000~26500

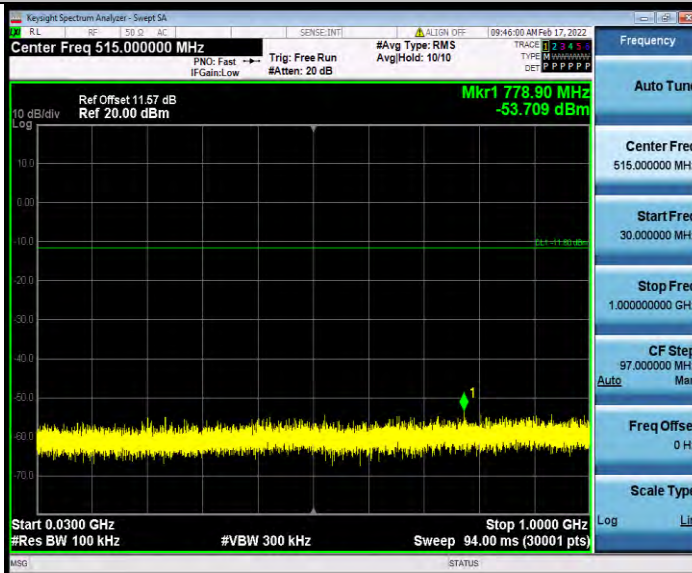


BUREAU VERITAS

Test Report No.: W7L-P22050011RF01



3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000



BUREAU VERITAS

Test Report No.: W7L-P22050011RF01



3DH5_Ant1_2402_1000~26500

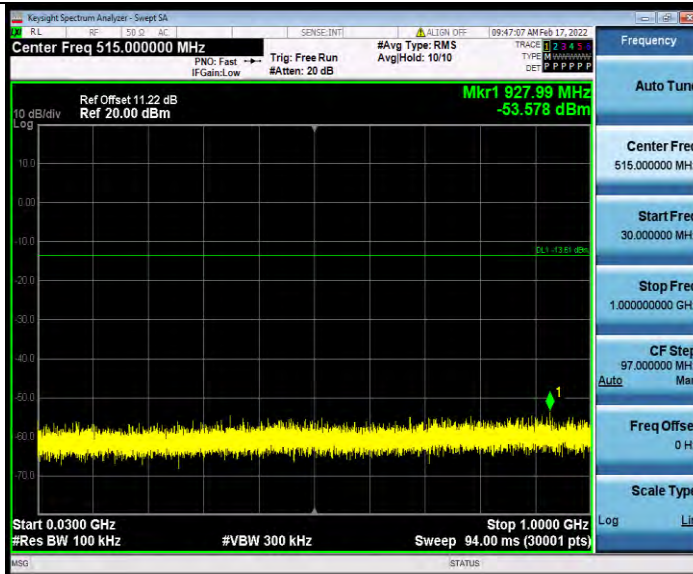


3DH5_Ant1_2441_0~Reference

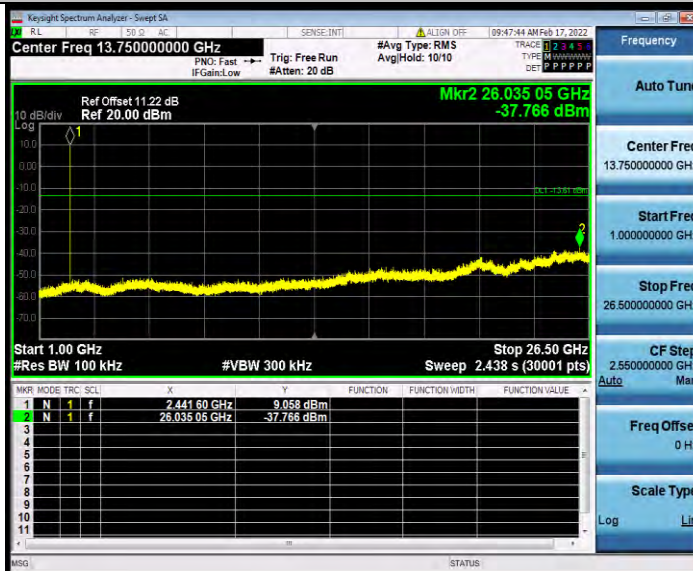


BUREAU VERITAS

Test Report No.: W7L-P22050011RF01



3DH5_Ant1_2441_30~1000



3DH5_Ant1_2441_1000~26500



BUREAU VERITAS

Test Report No.: W7L-P22050011RF01



3DH5_Ant1_2480_0~Reference

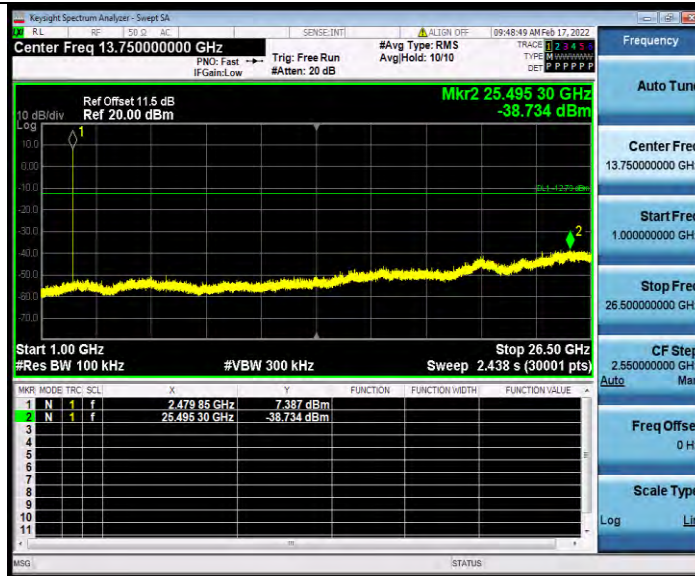


3DH5_Ant1_2480_30~1000



BUREAU VERITAS

Test Report No.: W7L-P22050011RF01



3DH5_Ant1_2480_1000~26500

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