

FCC TEST REPORT

(Part 15, Subpart C)

Applicant:	Hangzhou Wistar Mechanical & Electric Technology Co., Ltd
Address:	NO.290 Renliang Road, Renhe,YuhangDistrict, Hangzhou China

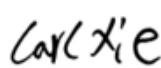
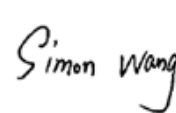
Manufacturer or Supplier:	Hangzhou Wistar Mechanical & Electric Technology Co., Ltd
Address:	NO.290 Renliang Road, Renhe,YuhangDistrict, Hangzhou China
Product:	BLE module
Brand Name:	WISTAR
Model Name:	WSMZ-01
FCC ID:	XFC-WSMZ-01
Date of tests:	Jul. 16, 2026 ~ Sep. 03, 2026

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

☒ **FCC Part 15, Subpart C, Section 15.247**

☒ **ANSI C63.10-2020**

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

Prepared by Carl Xie Engineer / Mobile Department	Approved by Simon Wang Manager / Mobile Department
	
Date: Sep. 03, 2026	Date: Sep. 03, 2026

Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. Statements of conformity are based on simple acceptance criteria without taking measurement uncertainty into account, unless otherwise requested in writing. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF260811B001	Original release	Sep. 03, 2026

1. SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC PART 15, SUBPART C (SECTION 15.247)			
STANDARD SECTION	TEST TYPE AND LIMIT	RESULT	TEST LAB*
15.207	AC Power Conducted Emission	N/A	-
15.205 15.209	Radiated Emissions	Compliance	A
15.247(d)	Out of band Emission Measurement	Compliance	A
15.247(a)(2)	6dB bandwidth	Compliance	A
15.247(b)	Conducted Output power	Compliance	A
15.247(e)	Power Spectral Density	Compliance	A
15.203	Antenna Requirement	Compliance	A

*Test Lab Information Reference

Lab A:

BOOMWAVE TEST (SHENZHEN) CO., LTD.

Lab Address:

Room B38, Warehouse A5(Chiwan No.1), No.3 Chiwan 4th Road, Chiwan Community, Zhaoshang Street, Nanshan District, Shenzhen, Guangdong, P.R. CHINA

Accredited Test Lab Cert 7607.01

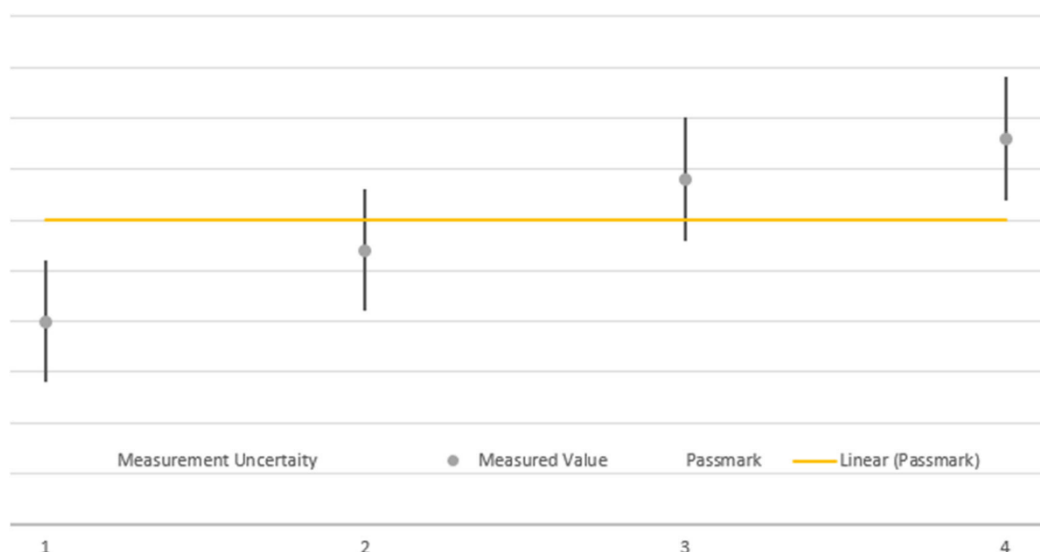
The FCC Site Registration No. is 646781; The Designation No. is CN1429.

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	$\pm 2.70\text{dB}$
Radiated emissions (9KHz~30MHz)	$\pm 2.68\text{dB}$
Radiated emissions (30MHz~1GHz)	$\pm 4.98\text{dB}$
Radiated emissions (1GHz ~6GHz)	$\pm 4.70\text{dB}$
Radiated emissions (6GHz ~18GHz)	$\pm 4.60\text{dB}$
Radiated emissions (18GHz ~40GHz)	$\pm 4.12\text{dB}$
Conducted emissions	$\pm 4.01\text{dB}$
Occupied Channel Bandwidth	$\pm 43.58\text{KHz}$
Conducted Output power	$\pm 2.06\text{dB}$
Power Spectral Density	$\pm 0.85\text{ dB}$

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



The verdicts in this test report are given according the above diagram:

Case	Measured Value	Uncertainty Range	Verdict
1	below pass mark	below pass mark	Passed
2	below pass mark	within pass mark	Passed
3	above pass mark	within pass mark	Failed
4	above pass mark	above pass mark	Failed

That means, the laboratory applies, as decision rule (see ISO/IEC 17025:2017), the so-called shared risk principle.

2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT	BLE module	
BRAND NAME	WISTAR	
MODEL NAME	WSMZ-01	
NOMINAL VOLTAGE	DC 3.3V	
MODULATION	BLE	GFSK
TRANSMISSION RATE	BT_LE: 1 Mbps/2 Mbps	
OPERATING FREQUENCY	2402-2480MHz for BT-LE(GFSK)	
MAX. OUTPUT POWER	BT-LE: 5.30mW (Maximum)	
ANTENNA GAIN	☒ Provided by client	
	BLE	0.5dBi
ANTENNA TYPE	BLE	PCB Antenna
HW VERSION	V1.0	
SW VERSION	V1.0.0	
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.
3. Antenna gain and EUT conducted cable loss are provided by the customer, and the laboratory will record the results based on these items that involve these two parameters.

2.2 DESCRIPTION OF TEST MODES

BT-LE							
CHANNEL	FREQ. (MHZ)	CHANNEL	FREQ. (MHZ)	CHANNEL	FREQ. (MHZ)	CHANNEL	FREQ. (MHZ)
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480

2.2.1 CONFIGURATION OF SYSTEM UNDER TEST

Please see section 4 photographs 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 test modes were selected for the final test, and the final worst case is marked in boldface and recorded in the report:

EUT CONFIGURE MODE	APPLICABLE TO				MODE
	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 1GHz):

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

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
BT-LE	1 to 38	19	GFSK	2.0

RADIATED EMISSION TEST (ABOVE 1GHz):

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

- ☒ The following channel(s) was (were) selected for the final test as listed below.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
BT-LE	1 to 38	19	GFSK	2.0

BANDEDGE MEASUREMENT:

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

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
BT-LE	0 to 39	0, 39	GFSK	1.0
BT-LE	1 to 38	1, 38	GFSK	2.0

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, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ The following channel(s) was (were) selected for the final test as listed below.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
BT-LE	0 to 39	0,19, 39	GFSK	1.0
BT-LE	1 to 38	1,19, 38	GFSK	2.0

TEST CONDITION			
APPLICABLE TO	ENVIRONMENTAL CONDITIONS	TEST VOLTAGE	TESTED BY
RE<1G	23deg. C, 70%RH	DC 3.3V	Carl Xie
RE≥1G	23deg. C, 70%RH	DC 3.3V	Carl Xie
PLC	25deg. C, 52%RH	DC 3.3V	Carl Xie
APCM	25deg. C, 60%RH	DC 3.3V	Alan Yu

2.3 DUTY CYCLE OF TEST SIGNAL

Please Refer to Appendix Of this test report.

2.4 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

KDB 558074 D01 DTS Meas Guidance v05r02

ANSI C63.10-2020

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.

2.5 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	PC	Lenovo	Think Book	N/A	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	DC Line: Unshielded, Detachable 1m;

3 TEST TYPES AND RESULTS

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dBμV)	
	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

N/A

3.1.3 TEST PROCEDURES

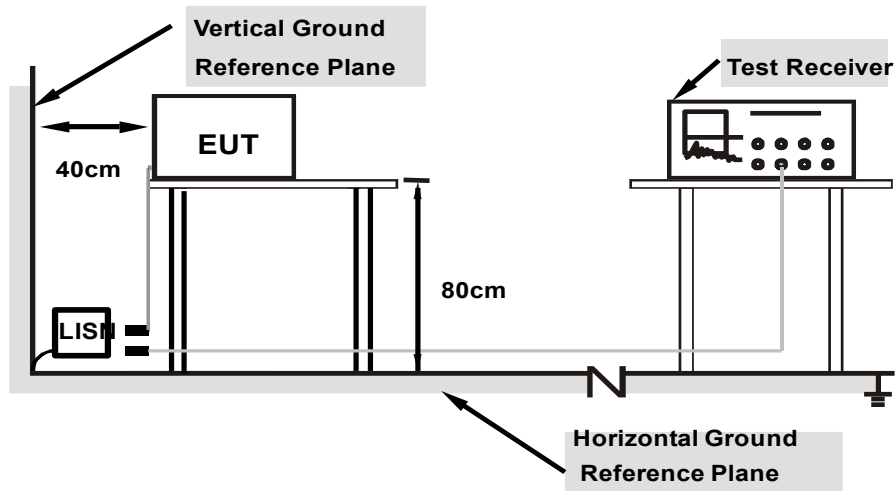
- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling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

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

3.1.7 TEST RESULTS

N/A.

3.2 RADIATED EMISSION MEASUREMENT

3.2.1 LIMITS OF RADIATED EMISSION 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).

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	2025/7/3	2027/7/2
BiConiLog Antenna	ETS-LINDGREN	3143B	161965	2025/7/17	2027/7/16
Horn Antenna	SCHWARZBECK	BBHA9120D	3297	2025/9/27	2027/9/26
Horn Antenna	STEATITE	QWH-SL-18-40-K-SG QMS-00361	15433	2025/7/19	2027/7/18
Preamplifier	Tonscend	TPA184045	AP24L8060388	2025/7/3	2027/7/2
MXE EMI Receiver	keysight	N9038B	MY50018017	2025/7/1	2027/6/30
MXG Vector Signal Generator	Keysight	N5183B	MY59100137	2025/6/30	2027/6/29
Preamplifier	Tonscend	TPA001330	806JSAPO40804251015	2025/6/30	2027/6/29
Preamplifier	Tonscend	TPA011845	AP24L8060392	2025/6/30	2027/6/29
Attenuator 6DB	SHX	TS2-6-6-A	230927166	2025/6/30	2027/6/29
Attenuator 6DB	SHX	TS2-6-6-A	230927165	2025/6/30	2027/6/29
Active Receive Loop Antenna	SCHWARZBECK	FMZB 1519 B	00173	2025/6/30	2027/6/29
Temp. & Humi. Recorder	Kejian	HTC-01	157246	2025/7/2	2027/7/1
HIGH pass FILTER_1-18	EWT	EWT-57-0222	EWT-57-0222	2025/6/30	2027/6/29
HIGH pass FILTER_7-18	EWT	EWT-57-0223	EWT-57-0223	2025/6/30	2027/6/29
HIGH pass FILTER_3-18	EWT	EWT-57-0221	EWT-57-0221	2025/6/30	2027/6/29
DC~1GHz Lowpass Filter	EWT	EWT-56-0649	EWT-56-0649	2025/7/3	2027/7/2
Cable 1	N/A	N/A	N/A	2025/9/28	2027/9/27
Cable 2	N/A	N/A	N/A	2025/9/28	2027/9/27
Cable 3	N/A	N/A	N/A	2025/9/28	2027/9/27

NOTE:

1. The calibration interval of the above test instruments is 24 months and the calibrations are traceable to CEPREI/CHINA, GREGT/CHINA and NIM/CHINA.
2. The test was performed in 3m Chamber.
3. The FCC Site Registration No. is 646781; The Designation No. is CN1429.

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:

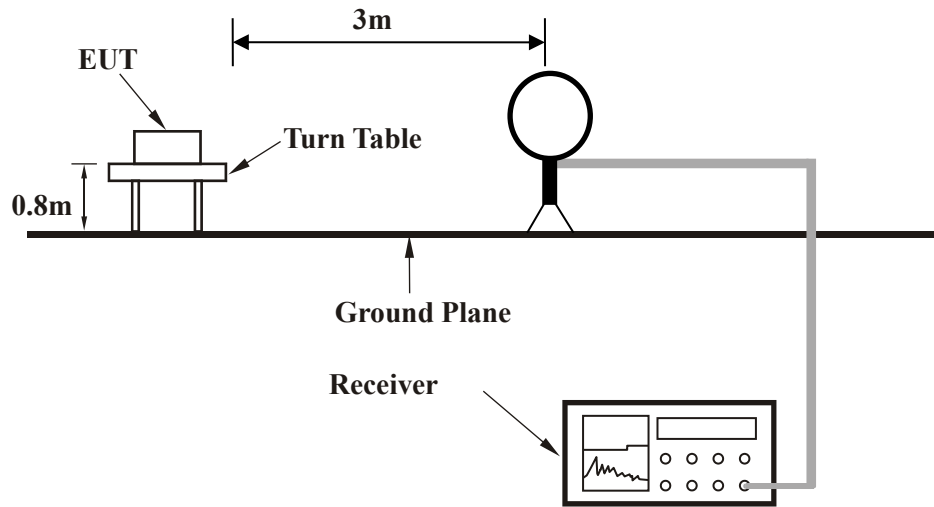
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for RMS Average (Duty cycle < 98%) for Average detection (AV) at frequency above 1GHz, then the measurement results was added to a correction factor ($10 \log(1/\text{duty cycle})$).
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.
5. All modes of operation were investigated and the worst-case emissions are reported.

3.2.4 DEVIATION FROM TEST STANDARD

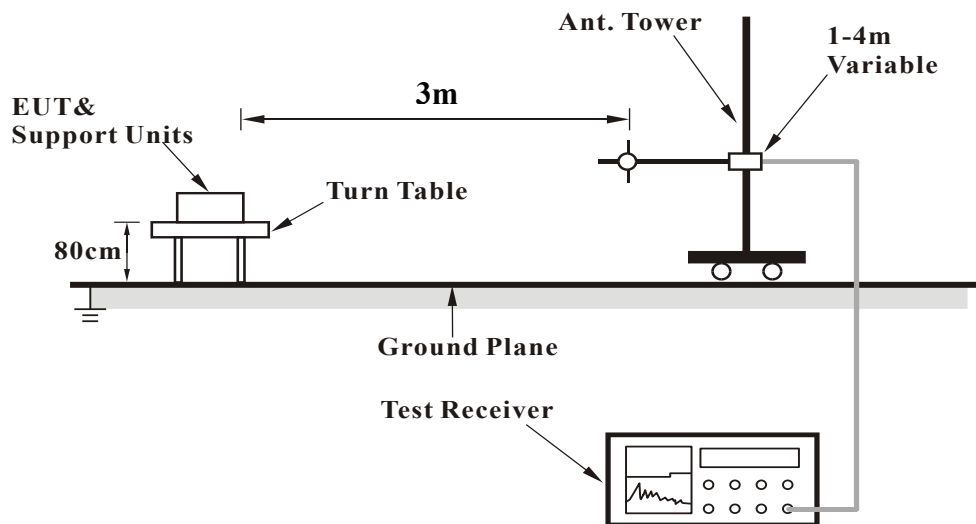
No deviation

3.2.5 TEST SETUP

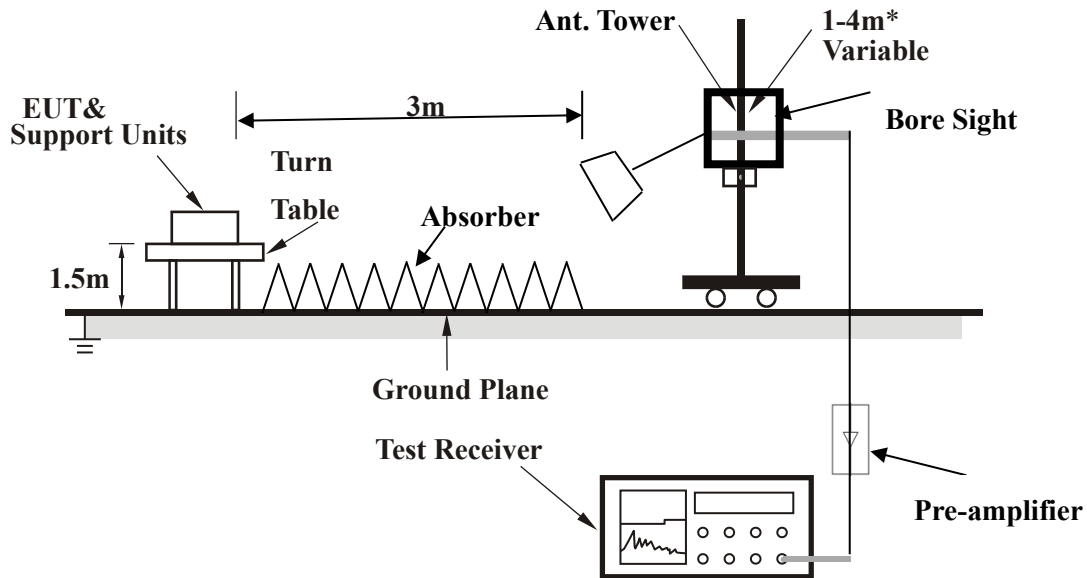
<Frequency Range 9KHz~30MHz >



< 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).

3.2.6 EUT OPERATING CONDITIONS

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

3.2.7 TEST RESULTS

BELOW 1GHz WORST-CASE DATA

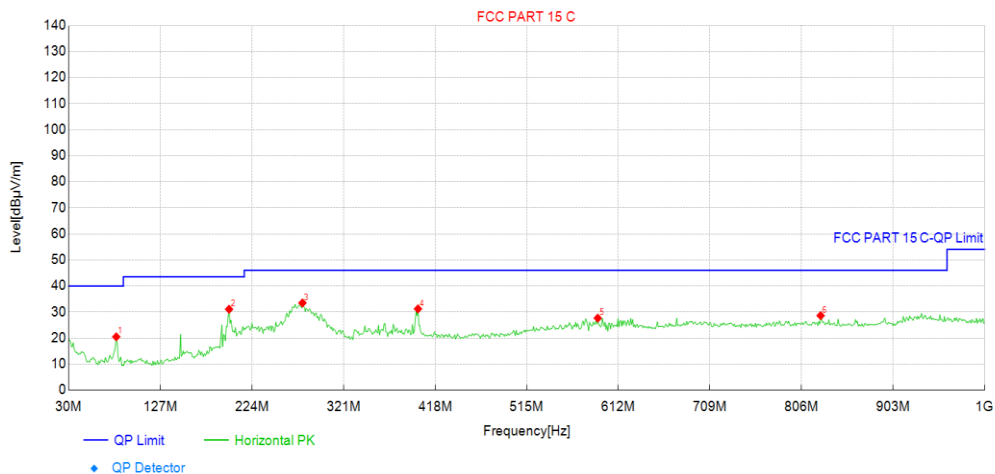
BT-LE_2M			
CHANNEL	TX Channel 19	ODETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	80.4905	53.02	20.48	-32.54	40.00	19.52	100	322	PK	Horizontal	PASS
2	199.9199	59.18	31.07	-28.11	43.50	12.43	100	191	PK	Horizontal	PASS
3	277.5976	58.92	33.48	-25.44	46.00	12.52	100	217	PK	Horizontal	PASS
4	399.9399	51.14	31.21	-19.93	46.00	14.79	100	297	PK	Horizontal	PASS
5	590.2503	44.18	27.65	-16.53	46.00	18.35	100	261	PK	Horizontal	PASS
6	826.1962	41.27	28.62	-12.65	46.00	17.38	100	276	PK	Horizontal	PASS

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(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 = Limit value – Emission Level



CHANNEL	TX Channel 19	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

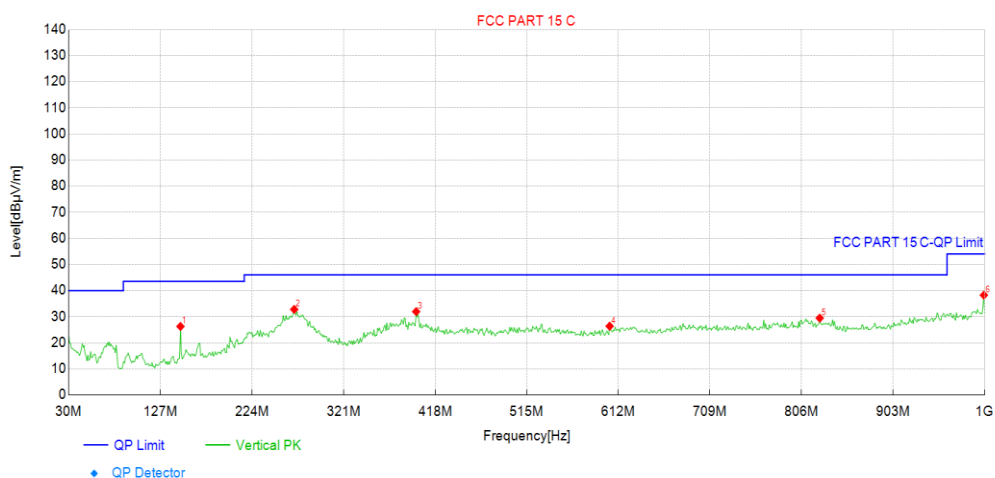
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	148.4585	55.87	26.25	-29.62	43.50	17.25	100	113	PK	Vertical	PASS
2	268.8589	57.71	32.78	-24.93	46.00	13.22	100	203	PK	Vertical	PASS
3	397.9980	51.96	31.94	-20.02	46.00	14.06	100	237	PK	Vertical	PASS
4	602.8729	42.66	26.35	-16.31	46.00	19.65	100	196	PK	Vertical	PASS
5	825.2252	42.09	29.44	-12.65	46.00	16.56	100	17	PK	Vertical	PASS
6	999.0290	49.87	38.24	-11.63	54.00	15.76	100	165	PK	Vertical	PASS

REMARKS:

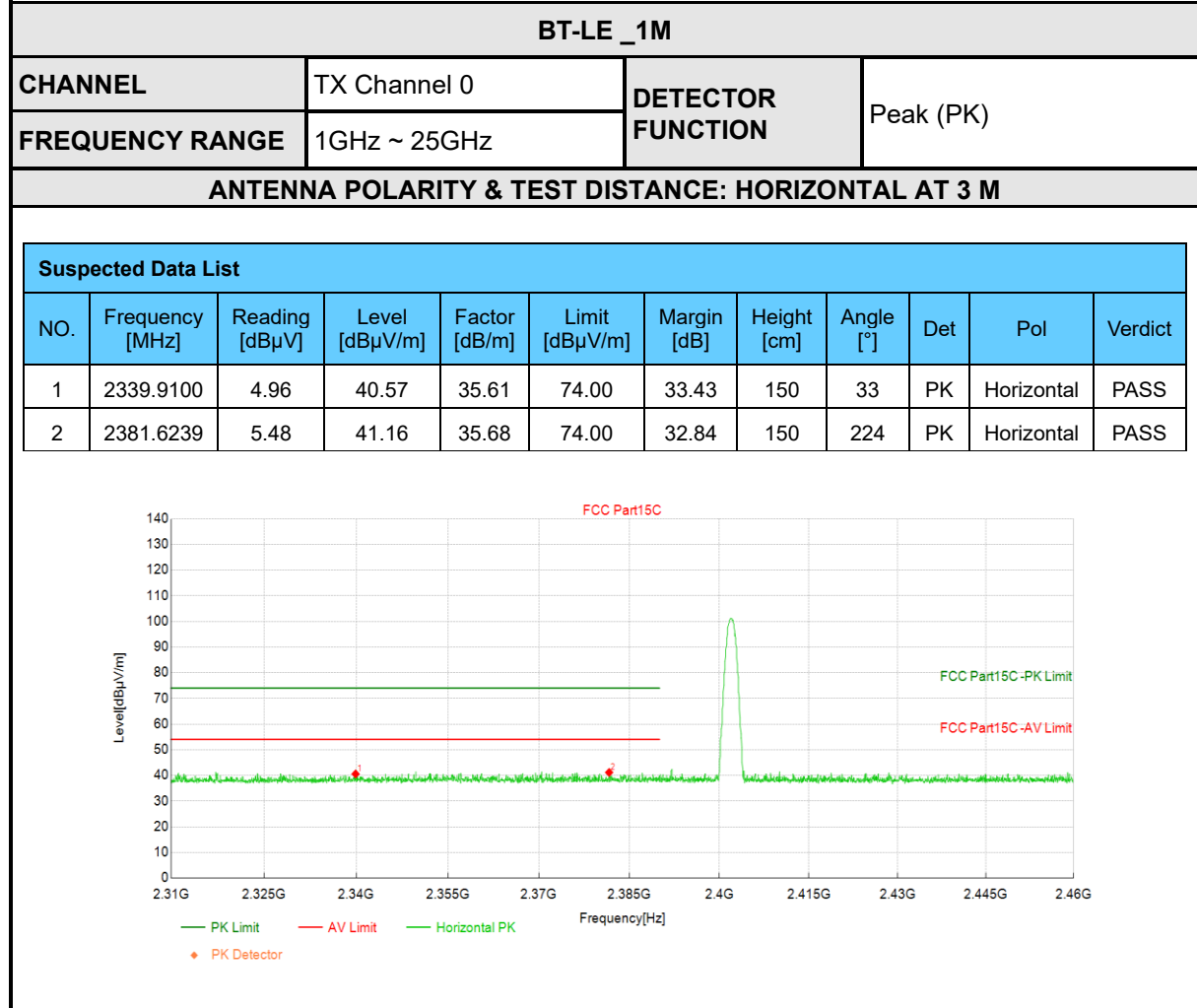
1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Limit value – Emission Level



ABOVE 1GHz TEST DATA

Note:

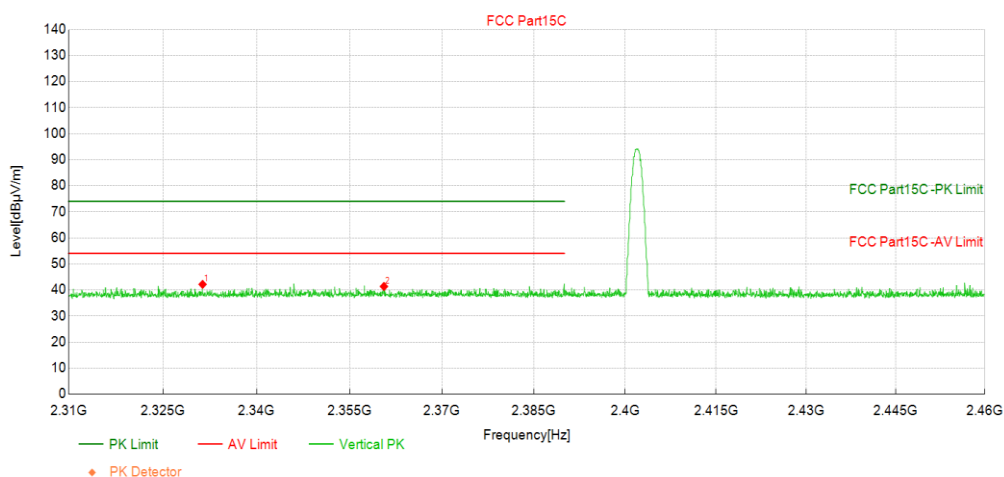
1. For radiated emissions testing , the full testing range of different modes have been scanned , only the worst case harmonic data is reported in the sheet.
2. All other emissions were greater than 20dB below the limit was not recorded

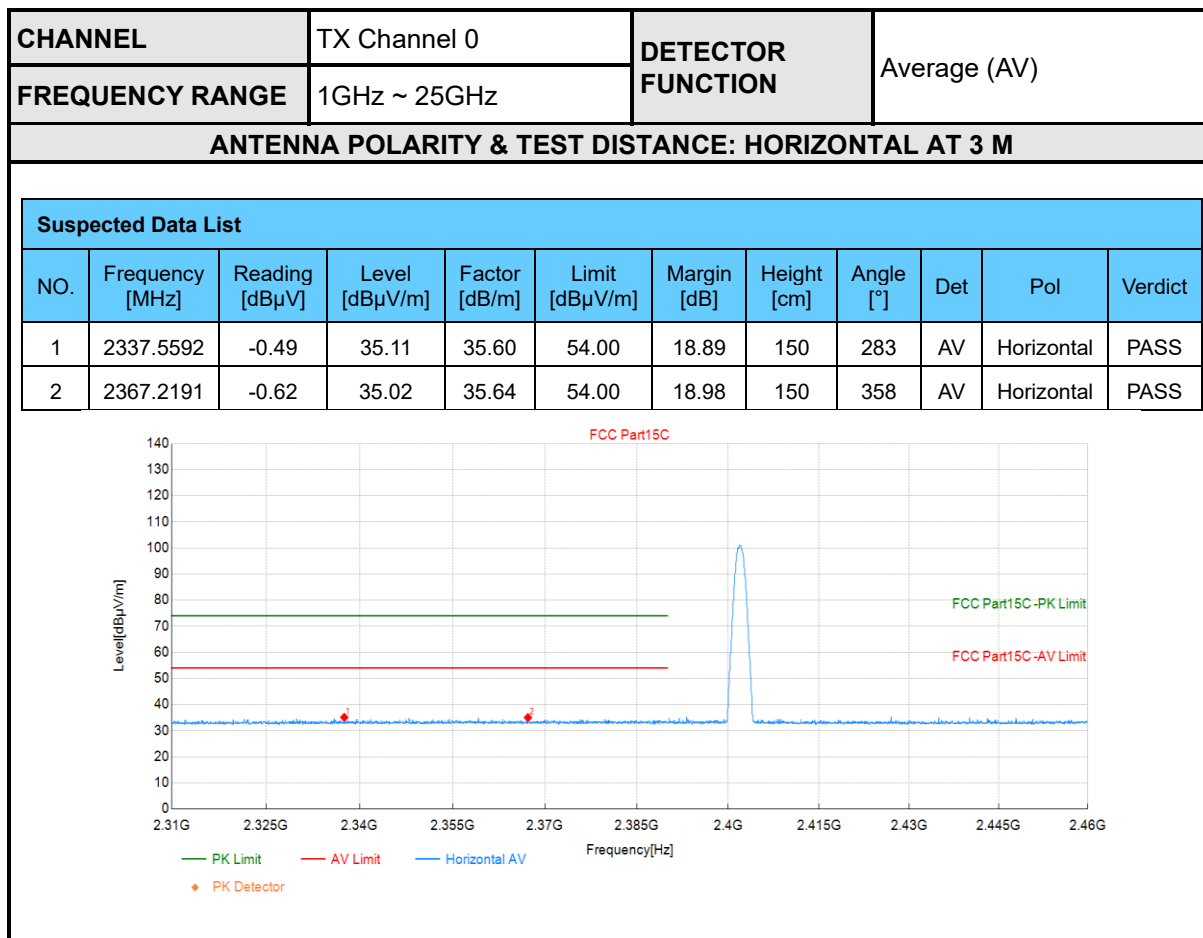


ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	2331.3571	6.52	42.14	35.62	74.00	31.86	150	235	PK	Vertical	PASS
2	2360.5669	5.73	41.35	35.62	74.00	32.65	150	267	PK	Vertical	PASS

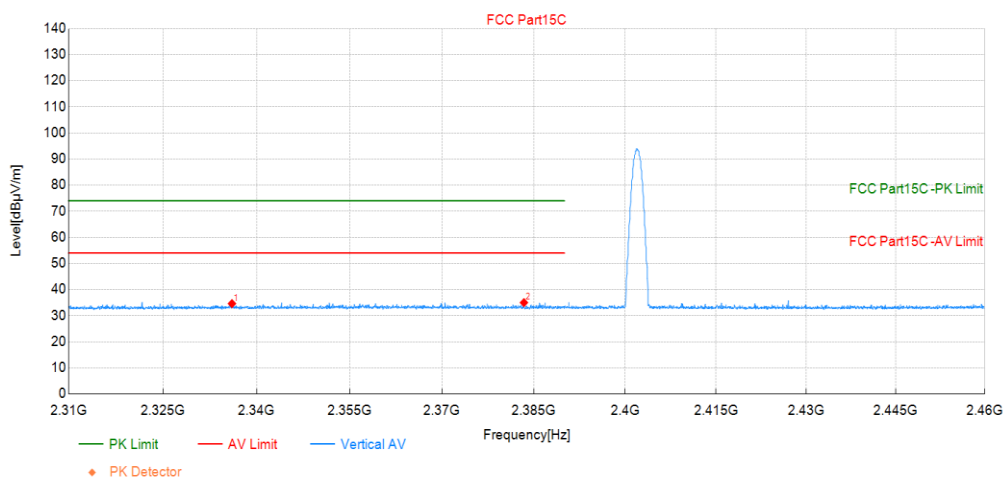




ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

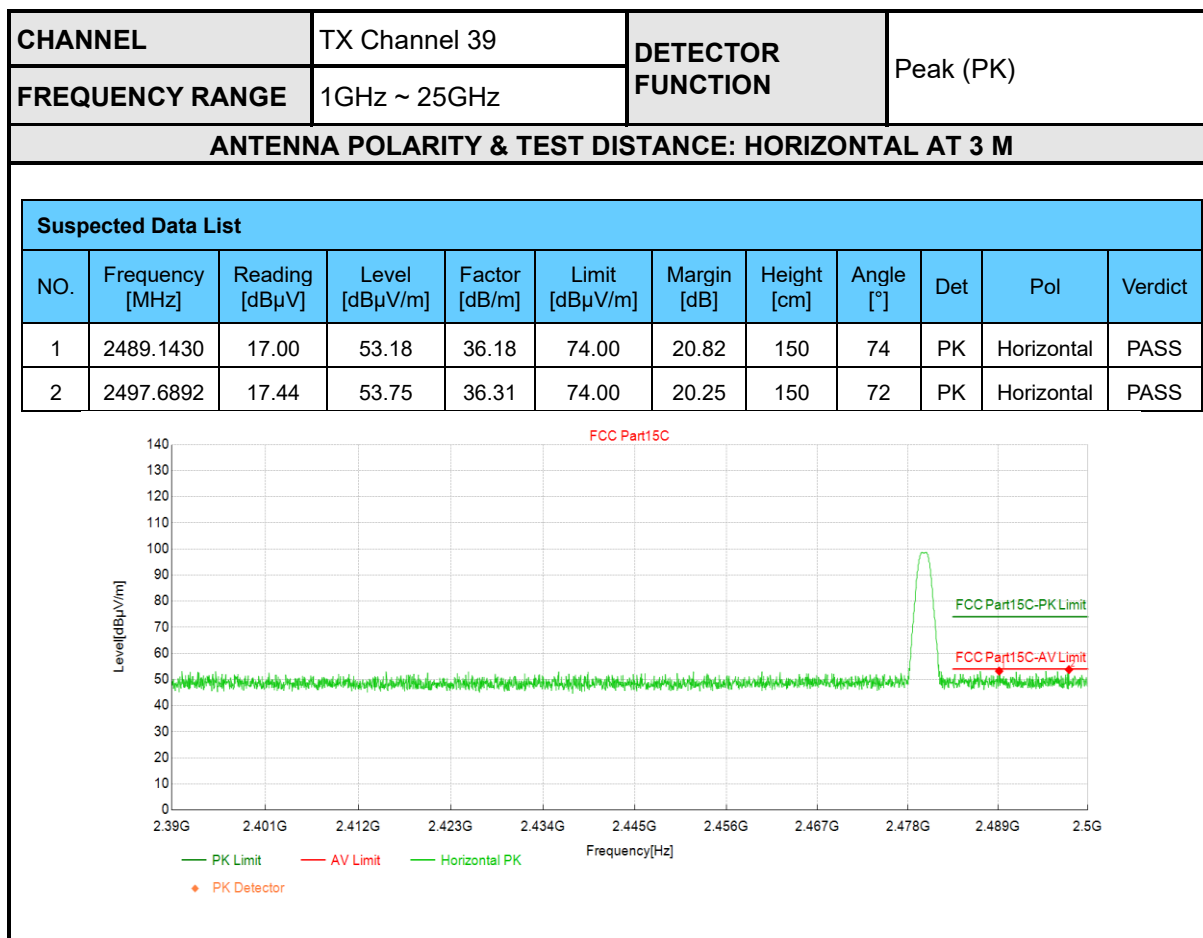
Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	2336.0587	-1.00	34.61	35.61	54.00	19.39	150	346	AV	Vertical	PASS
2	2383.3745	-0.71	34.99	35.70	54.00	19.01	150	17	AV	Vertical	PASS



REMARKS:

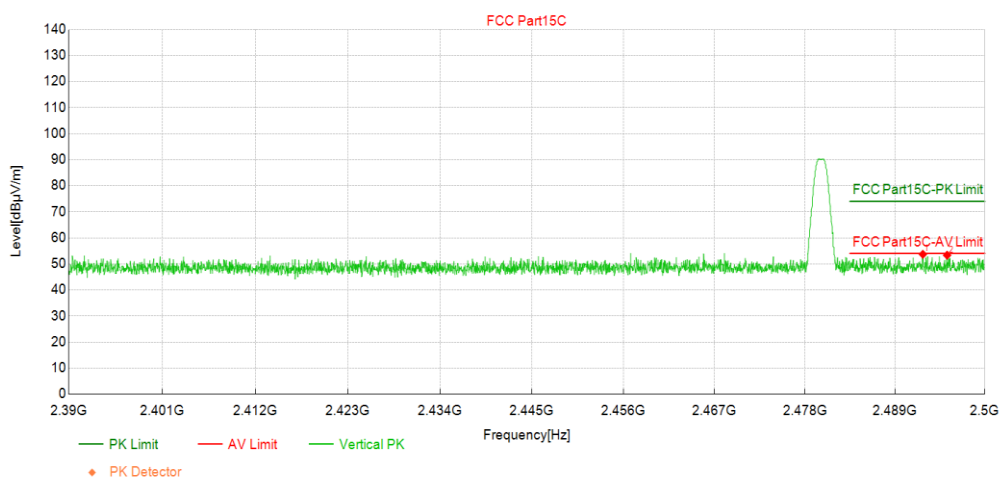
1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
2. Margin value = Limit value–Emission level.
3. 2402MHz: Fundamental frequency.

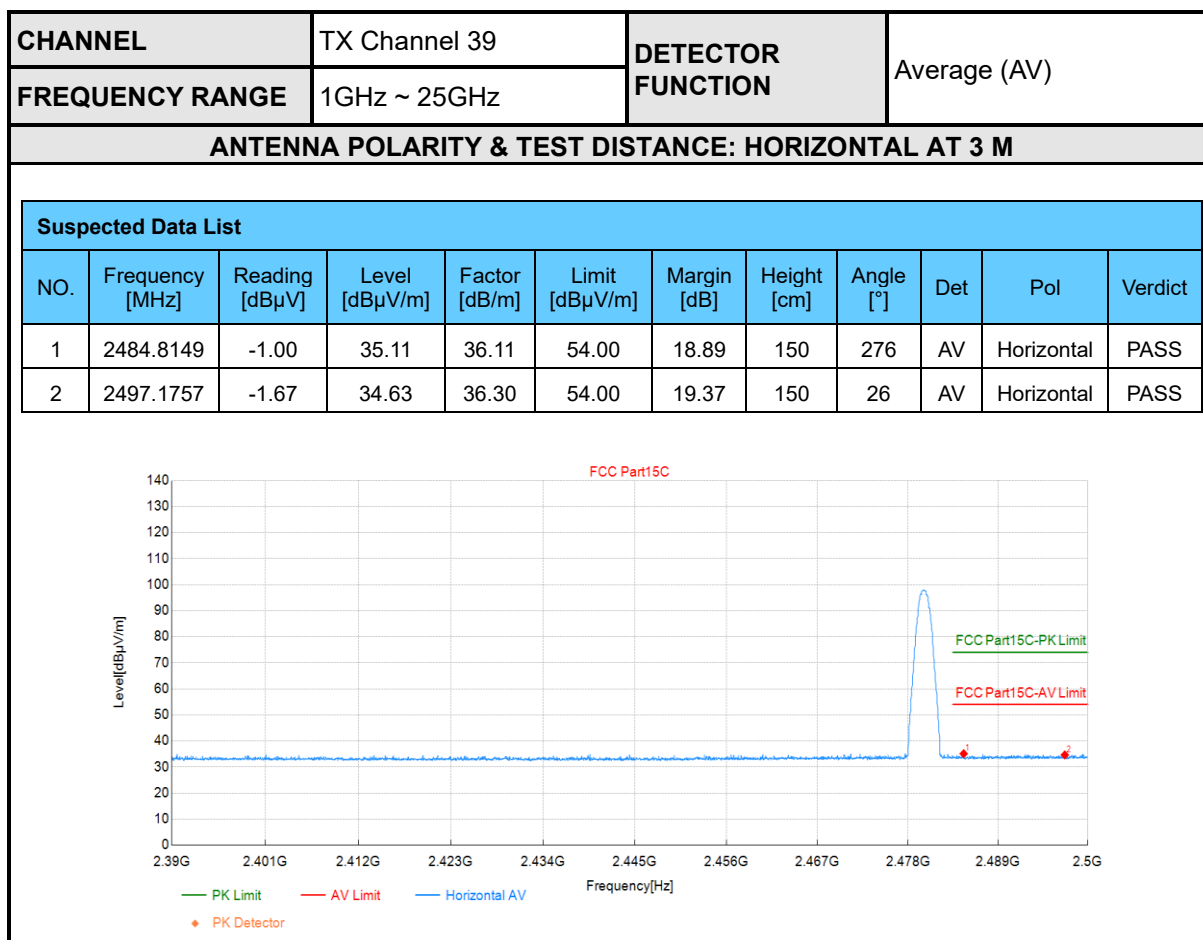


ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	2492.4075	17.47	53.69	36.22	74.00	20.31	150	97	PK	Vertical	PASS
2	2495.3785	17.06	53.34	36.28	74.00	20.66	150	233	PK	Vertical	PASS

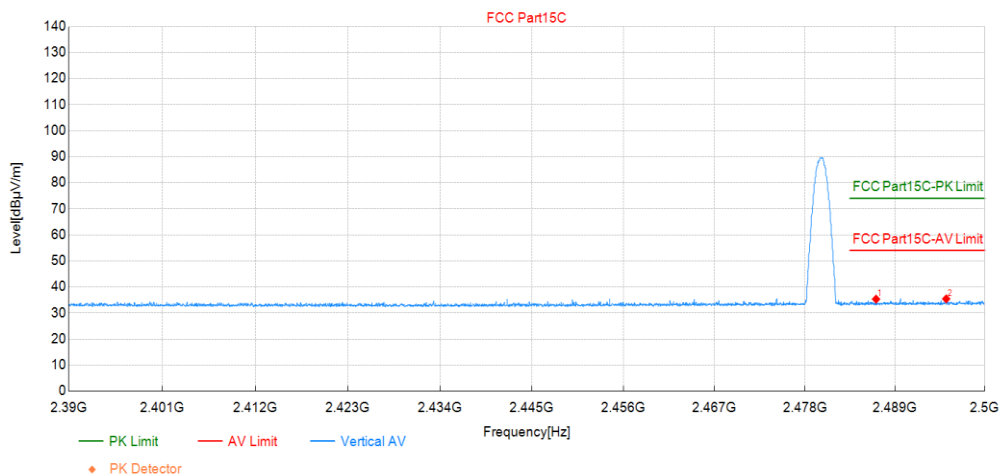




ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

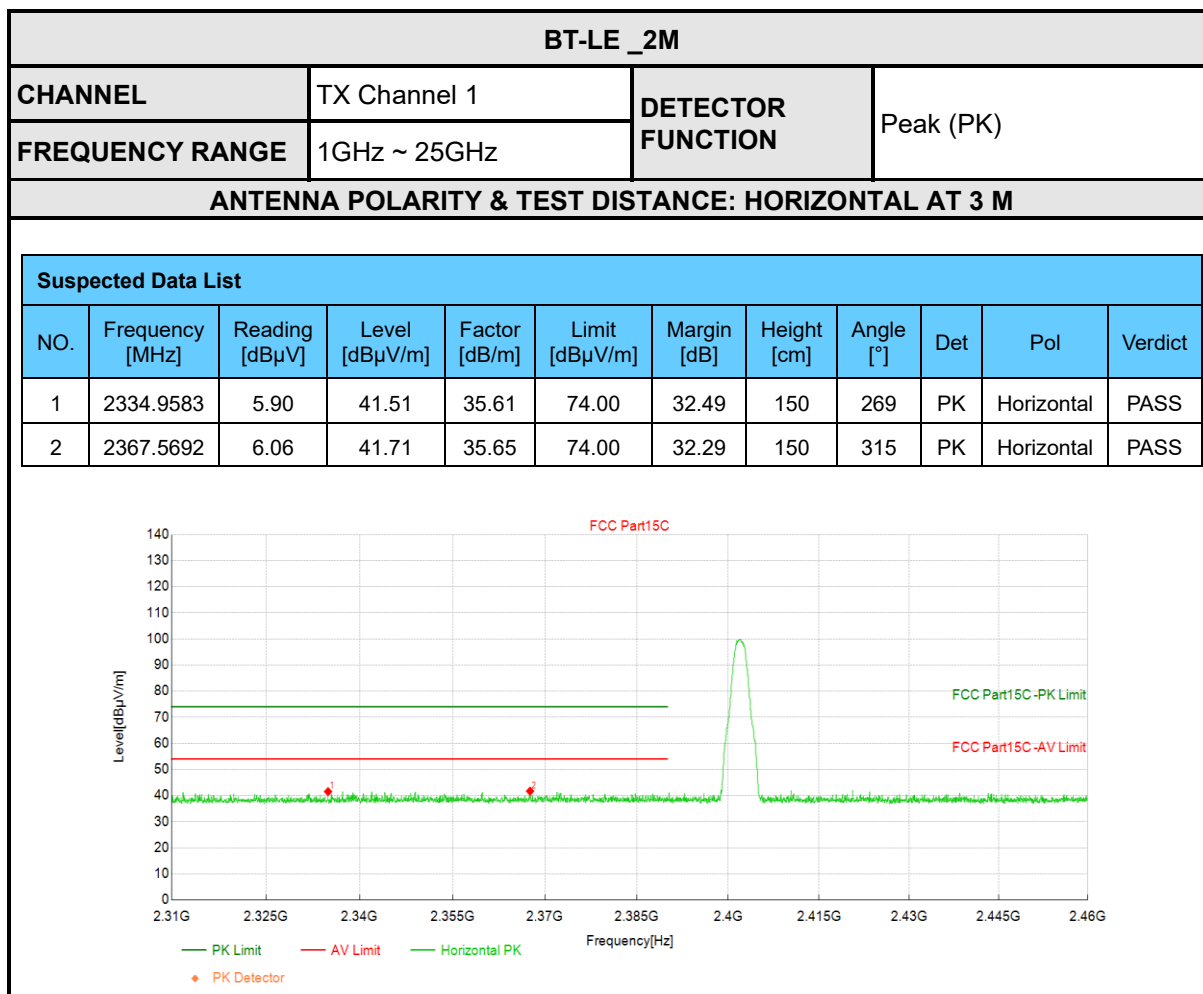
Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	2486.6856	-0.81	35.33	36.14	54.00	18.67	150	343	AV	Vertical	PASS
2	2495.2684	-0.84	35.43	36.27	54.00	18.57	150	227	AV	Vertical	PASS



REMARKS:

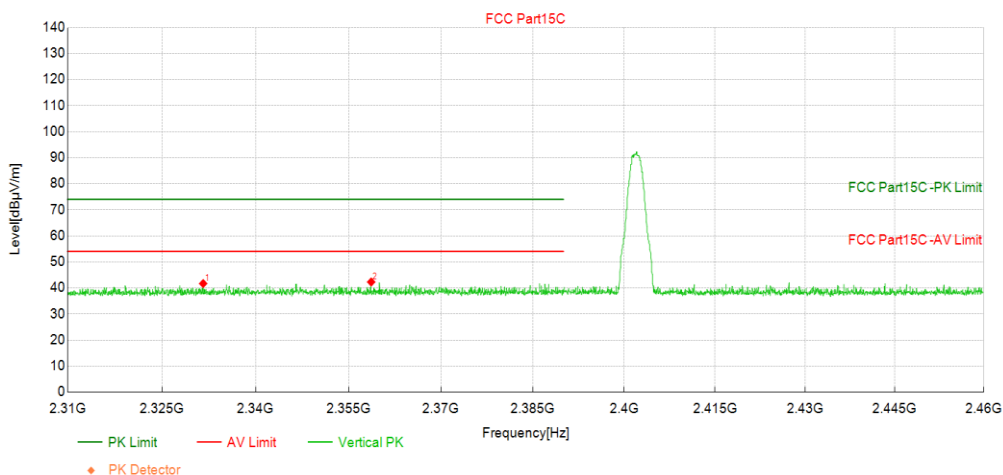
1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
2. Margin value = Limit value–Emission level.
3. 2480MHz: Fundamental frequency.

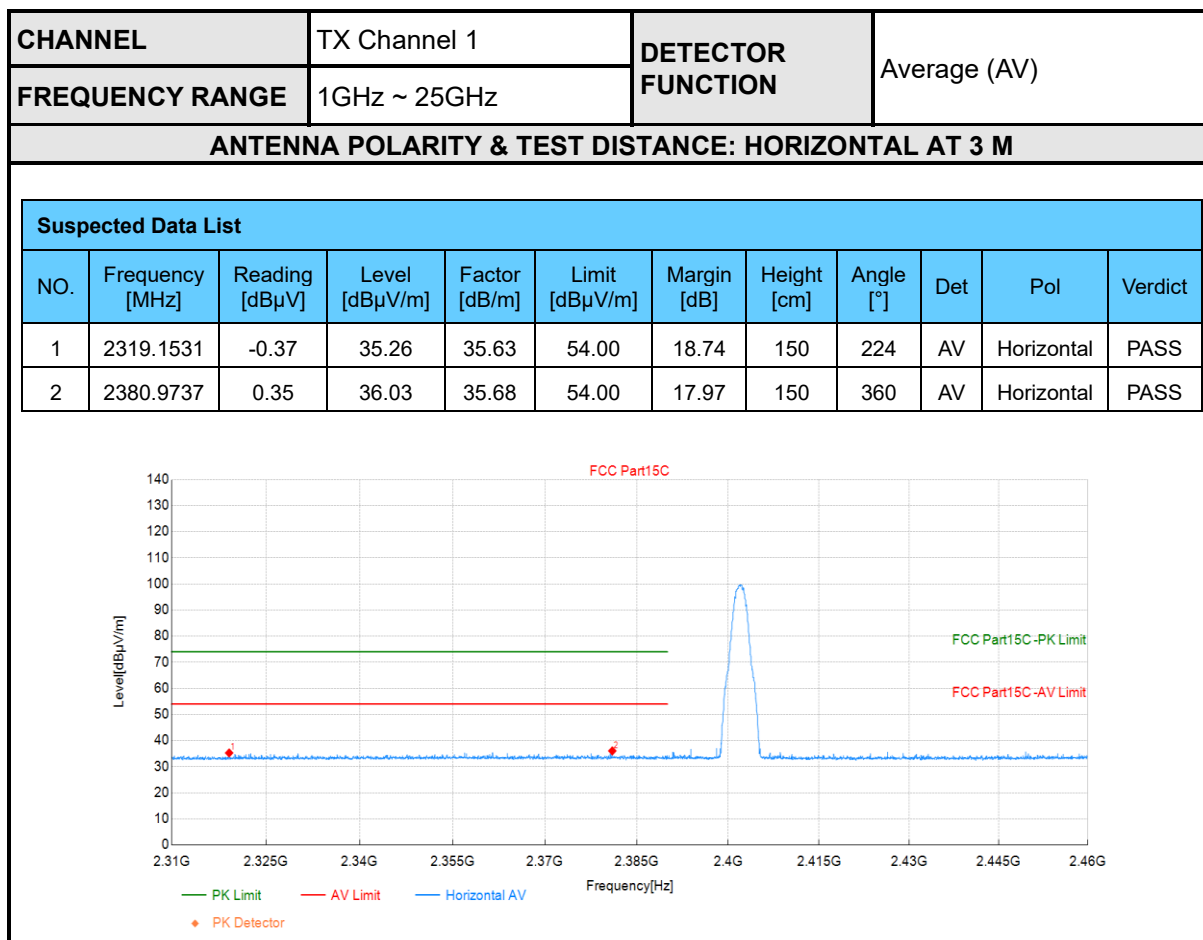


ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	2331.6072	6.07	41.69	35.62	74.00	32.31	150	294	PK	Vertical	PASS
2	2358.6662	6.67	42.29	35.62	74.00	31.71	150	123	PK	Vertical	PASS

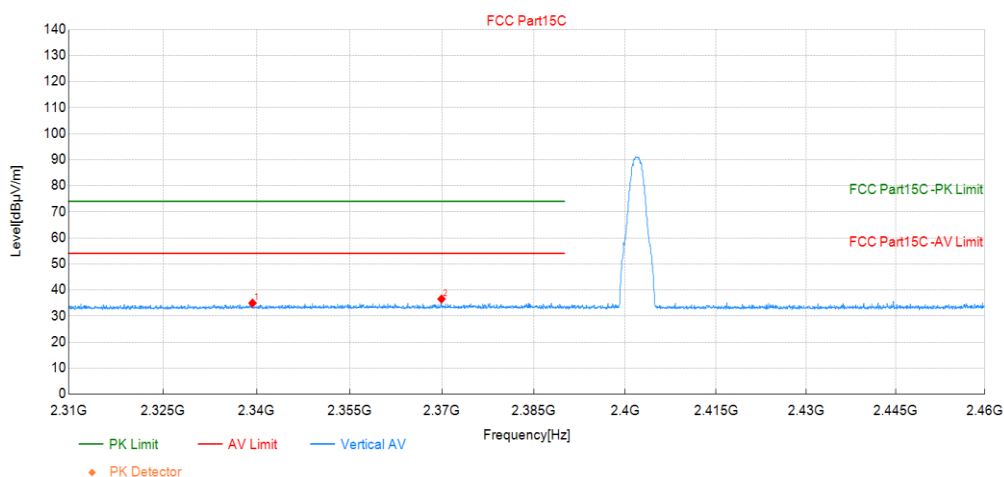




ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

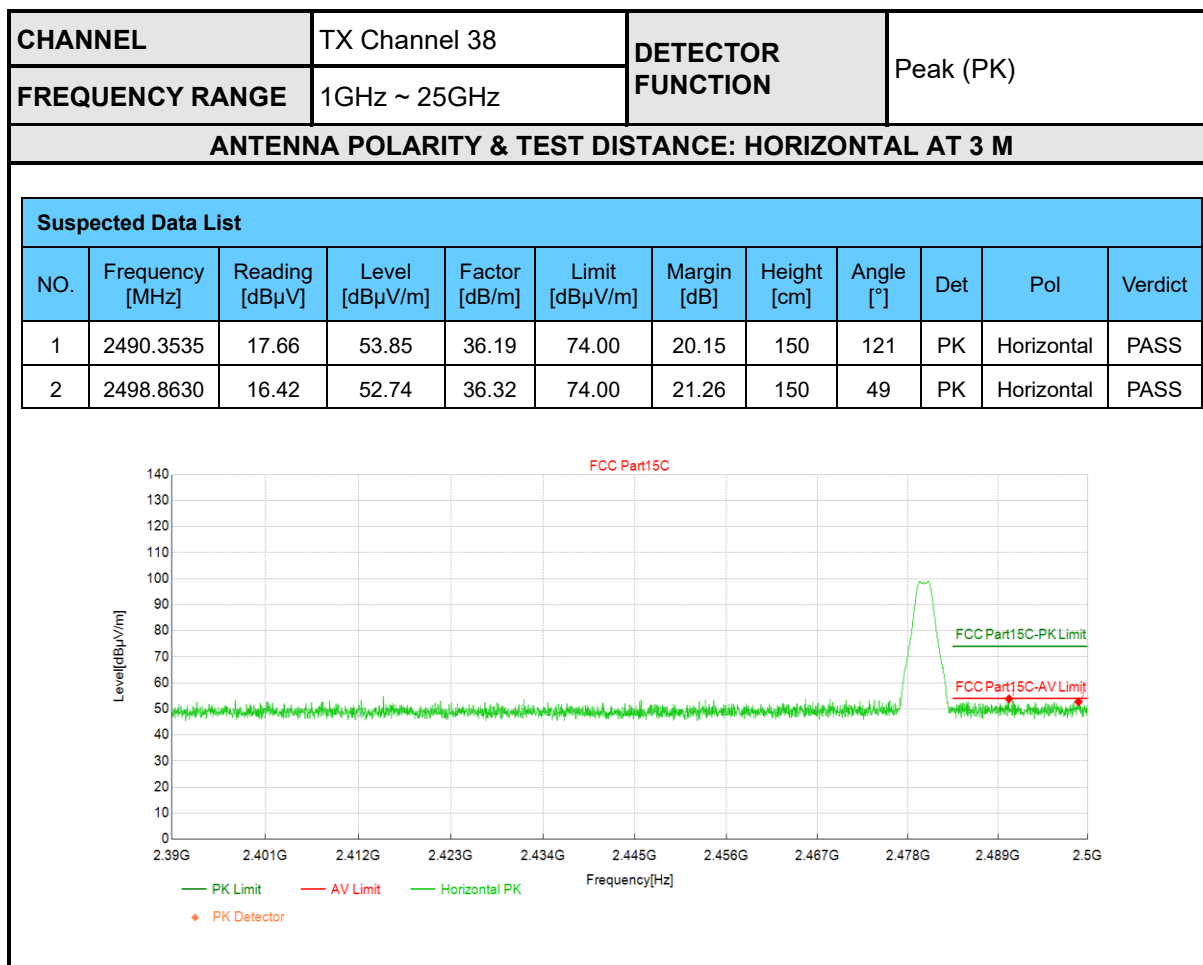
Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	2339.3598	-0.66	34.95	35.61	54.00	19.05	150	197	AV	Vertical	PASS
2	2369.9200	0.87	36.52	35.65	54.00	17.48	150	142	AV	Vertical	PASS



REMARKS:

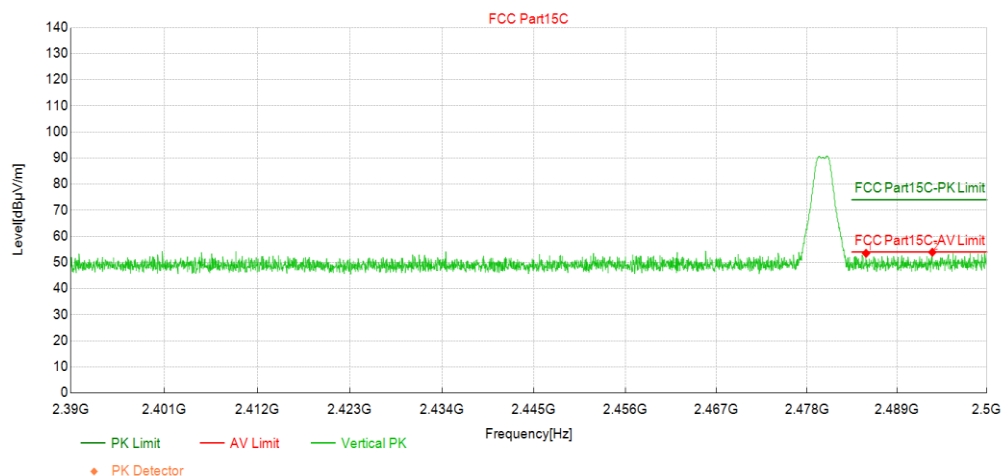
1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
2. Margin value = Limit value–Emission level.
3. 2404MHz: Fundamental frequency.

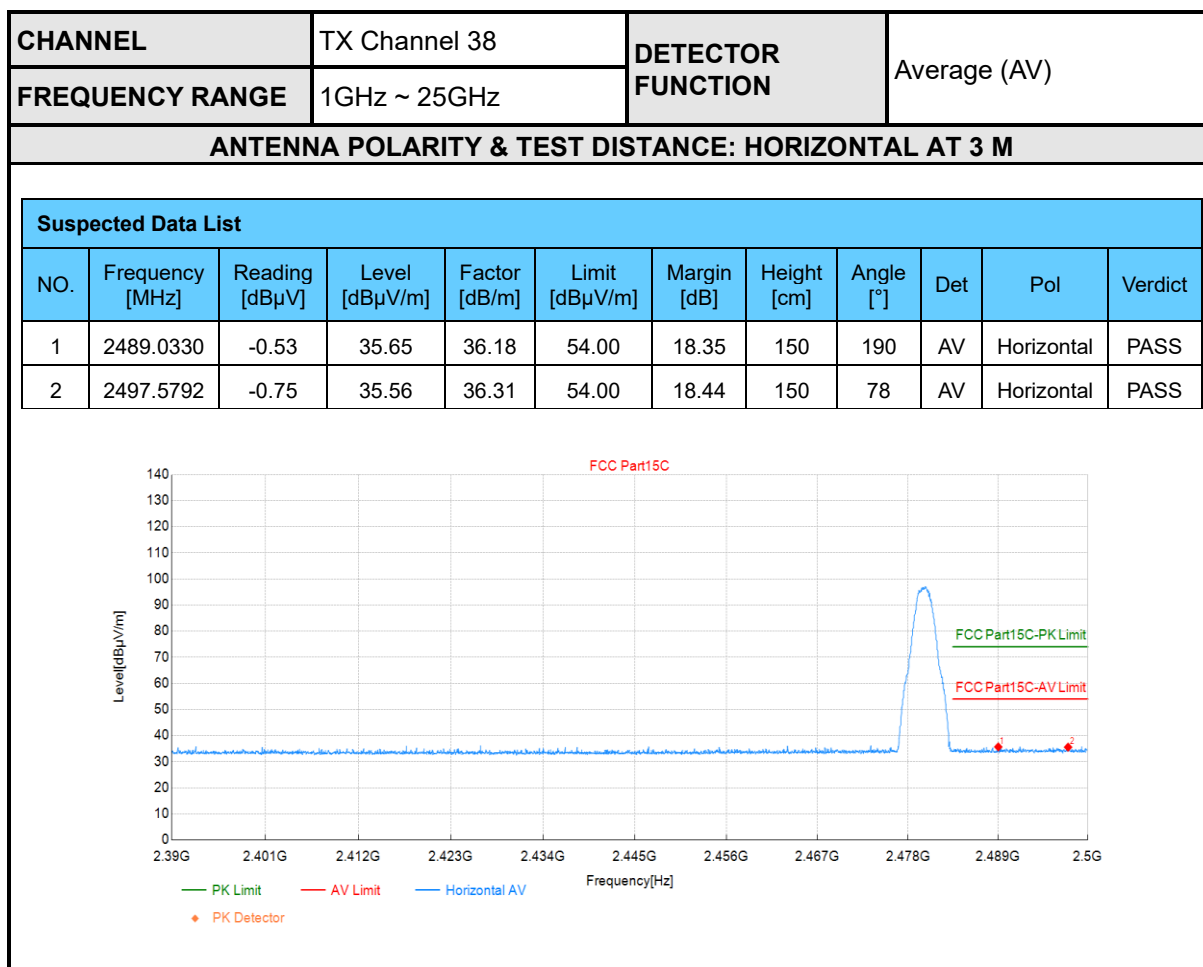


ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	2485.2184	17.39	53.51	36.12	74.00	20.49	150	81	PK	Vertical	PASS
2	2493.3244	17.67	53.91	36.24	74.00	20.09	150	244	PK	Vertical	PASS

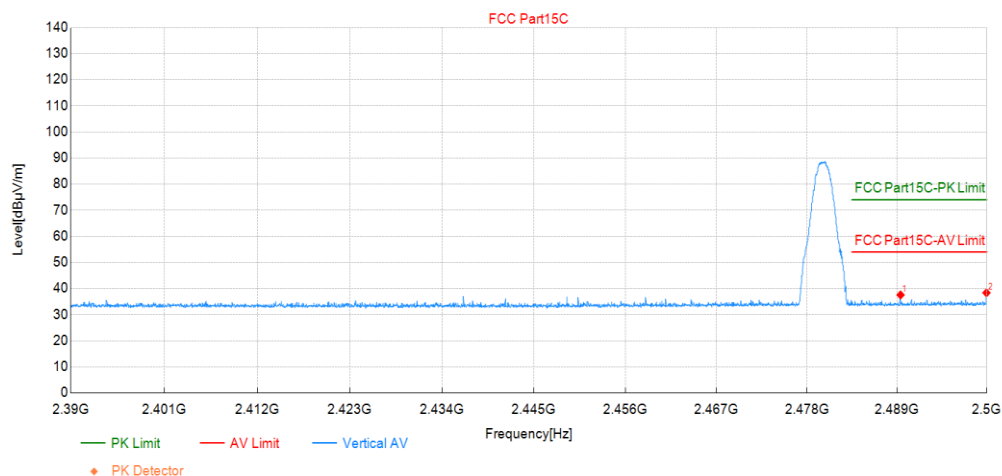




ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	2489.4365	1.37	37.55	36.18	54.00	16.45	150	180	AV	Vertical	PASS
2	2499.9633	2.02	38.36	36.34	54.00	15.64	150	95	AV	Vertical	PASS

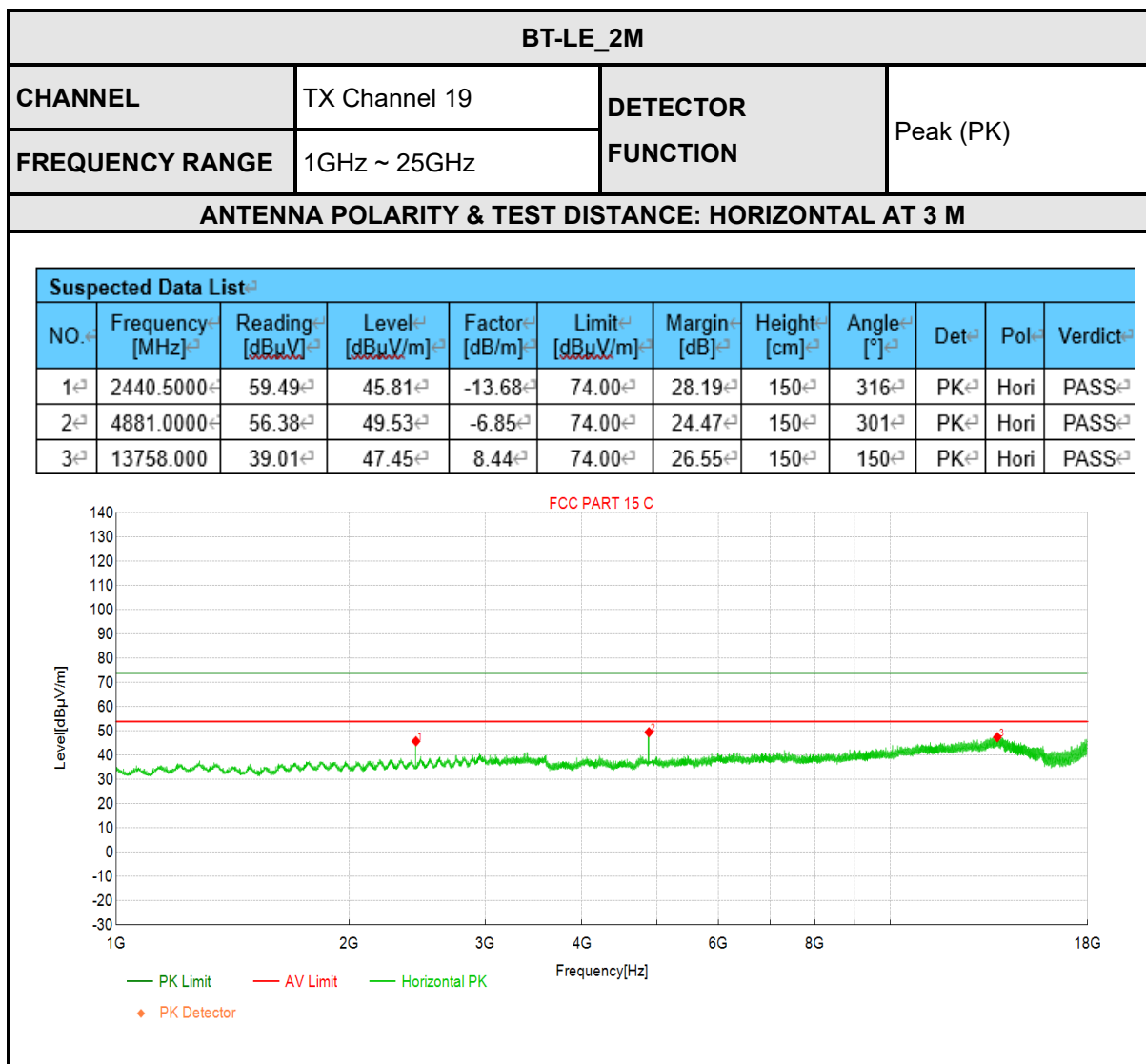


REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamplifier Factor
2. Margin value = Limit value–Emission level.
3. 2478MHz: Fundamental frequency.

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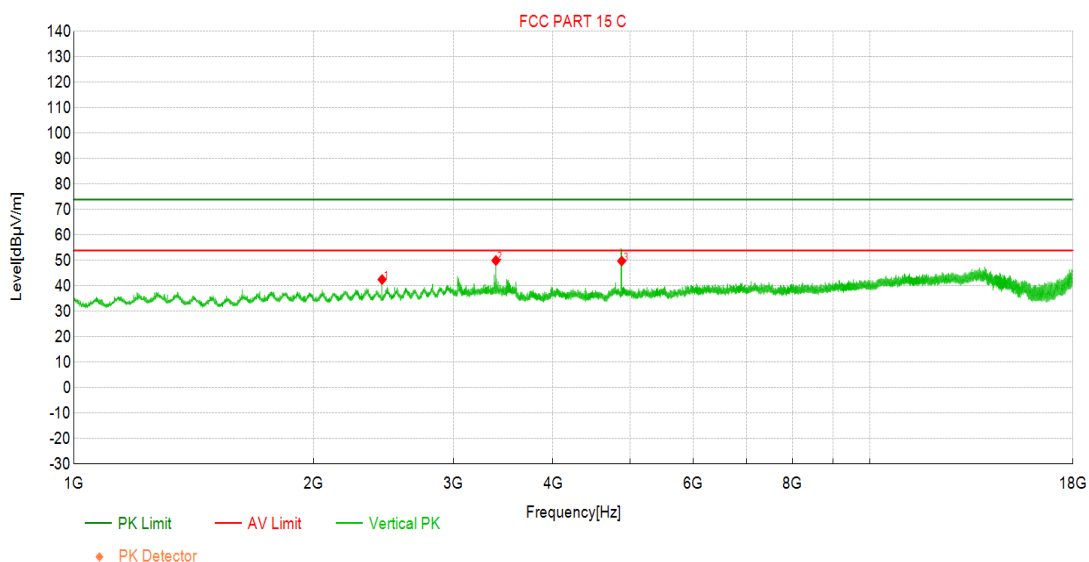
Worst case harmonic:



ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Suspected Data List

NO.	Frequency [MHz]	Reading [dBuV]	Level [dBuV/m]	Factor [dB/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	2439.5000	56.21	42.53	-13.68	74.00	31.47	150	74	PK	Vert	PASS
2	3391.0000	61.24	50.01	-11.23	74.00	23.99	150	225	PK	Vert	PASS
3	4879.0000	56.65	49.79	-6.86	74.00	24.21	150	154	PK	Vert	PASS



REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 2480MHz: Fundamental frequency.
- For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.

3.3 6 dB BANDWIDTH MEASUREMENT

3.3.1 LIMITS OF 6dB BANDWIDTH MEASUREMENT

The minimum 6dB Bandwidth Measurement is 0.5 MHz.

3.3.2 TEST INSTRUMENTS

N/A.

3.3.3 TEST PROCEDURE

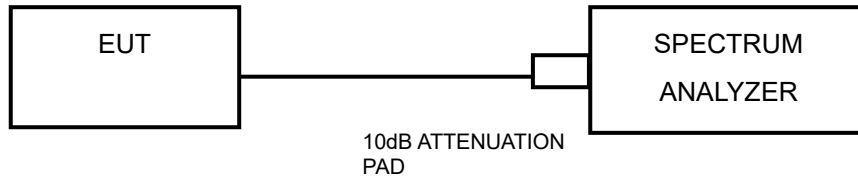
In accordance with ANSI C63.10-2020 11.8.1 Option 1:

- a) Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100kHz.
- b) Set the VBW $\geq [3 \times \text{RBW}]$.
- c) Detector = peak.
- d) Trace mode = max-hold.
- e) Sweep = No faster than coupled (auto) time.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission by placing two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “-6 dB down amplitude”. If a marker is below this “-6 dB downamplitude” value, then it shall be as close as possible to this value.

3.3.4 DEVIATION FROM TEST STANDARD

No deviation.

3.3.5 TEST SETUP



3.3.6 EUT OPERATING CONDITIONS

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

3.3.7 TEST RESULTS

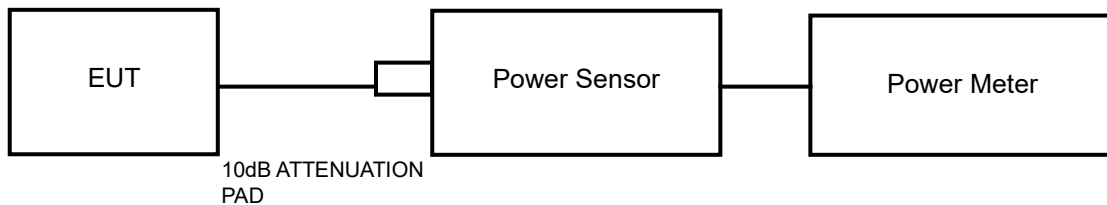
Please Refer to Appendix Of this test report.

3.4 CONDUCTED OUTPUT POWER

3.4.1 LIMITS OF CONDUCTED OUTPUT POWER MEASUREMENT

For systems using digital modulation in the 2400–2483.5 MHz band: 1 Watt (30dBm)

3.4.2 TEST SETUP



3.4.3 TEST INSTRUMENTS

Refer to section 3.3.2 to get information of above instrument.

3.4.4 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.

3.4.5 DEVIATION FROM TEST STANDARD

No deviation.

3.4.6 EUT OPERATING CONDITIONS

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

3.4.7 TEST RESULTS

3.4.7.1 MAXIMUM PEAK OUTPUT POWER

Please Refer to Appendix Of this test report.

3.4.7.2 AVERAGE OUTPUT POWER (FOR REFERENCE)

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

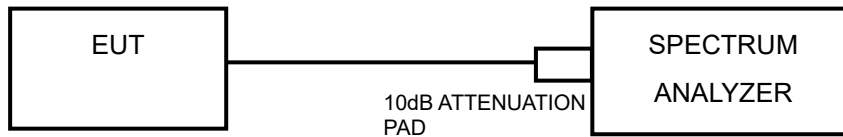
Please Refer to Appendix Of this test report.

3.5 POWER SPECTRAL DENSITY MEASUREMENT

3.5.1 LIMITS OF POWER SPECTRAL DENSITY MEASUREMENT

The Maximum of Power Spectral Density Measurement is 8dBm/3KHz.

3.5.2 TEST SETUP



3.5.3 TEST INSTRUMENTS

Refer to section 3.3.2 to get information of above instrument.

3.5.4 TEST PROCEDURE

1. Set the span > 1.5 times the DTS bandwidth
2. Set the RBW = 3 kHz, VBW $\geq 3 \times$ RBW, Detector = peak.
3. Sweep time = auto couple, Trace mode = max hold, allow trace to fully stabilize.
4. Use the peak marker function to determine the maximum amplitude level.

3.5.5 DEVIATION FROM TEST STANDARD

No deviation.

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.



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3.5.7 TEST RESULTS

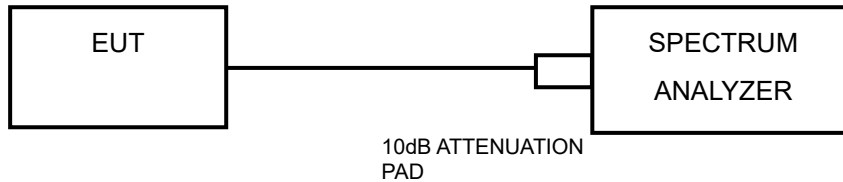
Please Refer to Appendix Of this test report.

3.6 OUT OF BAND EMISSION MEASUREMENT

3.6.1 LIMITS OF OUT OF BAND EMISSION MEASUREMENT

Below -20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).

3.6.2 TEST SETUP



3.6.3 TEST INSTRUMENTS

Refer to section 3.3.2 to get information of above instrument.

3.6.4 TEST PROCEDURE

MEASUREMENT PROCEDURE REF

1. Set the RBW = 100 kHz.
2. Set the VBW $\geq$ 300 kHz.
3. Detector = peak.
4. Sweep time = auto couple.
5. Trace mode = max hold.
6. Allow trace to fully stabilize.
7. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.

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MEASUREMENT PROCEDURE OOBE

1. Set RBW = 100 kHz.
2. Set VBW $\geq$ 300 kHz.
3. Set span to encompass the spectrum to be examined
4. Detector = peak.
5. Trace Mode = max hold.
6. Sweep = auto couple.

3.6.5 DEVIATION FROM TEST STANDARD

No deviation.

3.6.6 EUT OPERATING CONDITION

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

3.6.7 TEST RESULTS

The spectrum plots are attached on the following images. D1 line indicates the highest level. D2 line indicates the 20dB offset below D1. It shows compliance to the requirement.

Please Refer to Appendix Of this test report.

3.7 ANTENNA REQUIREMENTS

3.7.1 STANDARD APPLICABLE

If transmitting antenna directional gain is greater than 6 dBi, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.7.2 ANTENNA CONNECTED CONSTRUCTION

An embedded-in antenna design is used.

3.7.3 ANTENNA GAIN

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit and PSD limit.

4 PHOTOGRAPHS OF THE TEST CONFIGURATION

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

5 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.

6 APPENDIX

DTS BANDWIDTH

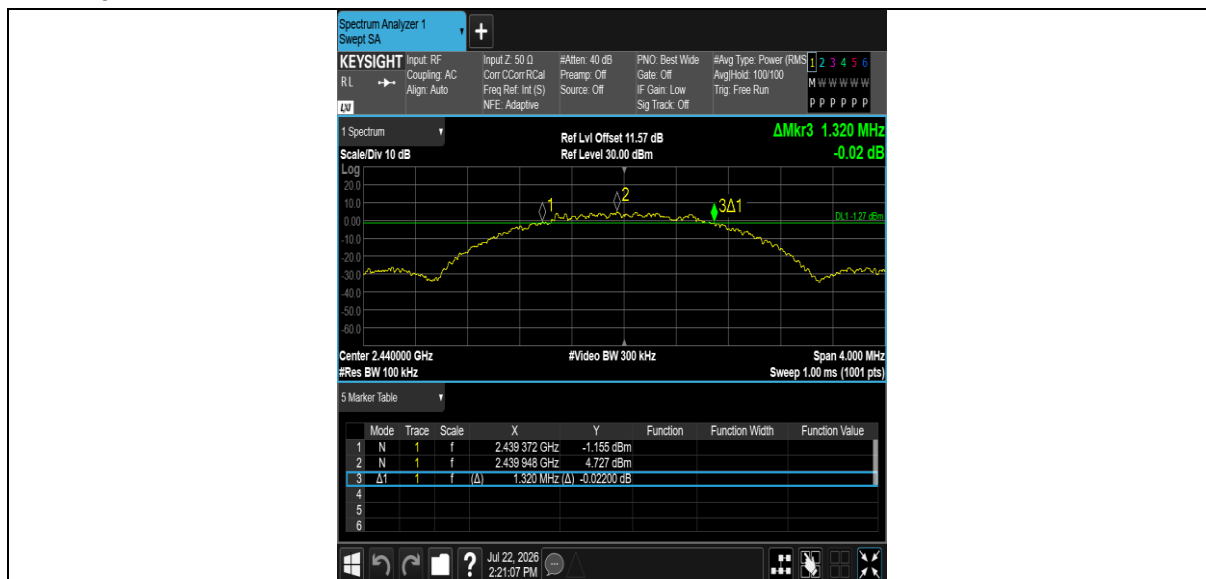
TEST RESULT

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.648	2401.688	2402.336	0.5	PASS
BLE_1M	Ant1	2440	0.684	2439.664	2440.348	0.5	PASS
BLE_1M	Ant1	2480	0.688	2479.672	2480.360	0.5	PASS
BLE_2M	Ant1	2402	1.312	2401.348	2402.660	0.5	PASS
BLE_2M	Ant1	2440	1.320	2439.372	2440.692	0.5	PASS
BLE_2M	Ant1	2480	1.348	2479.316	2480.664	0.5	PASS

TEST GRAPHS







BLE_2M-Ant1-2480-PASS



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OCCUPIED CHANNEL BANDWIDTH

TEST RESULT

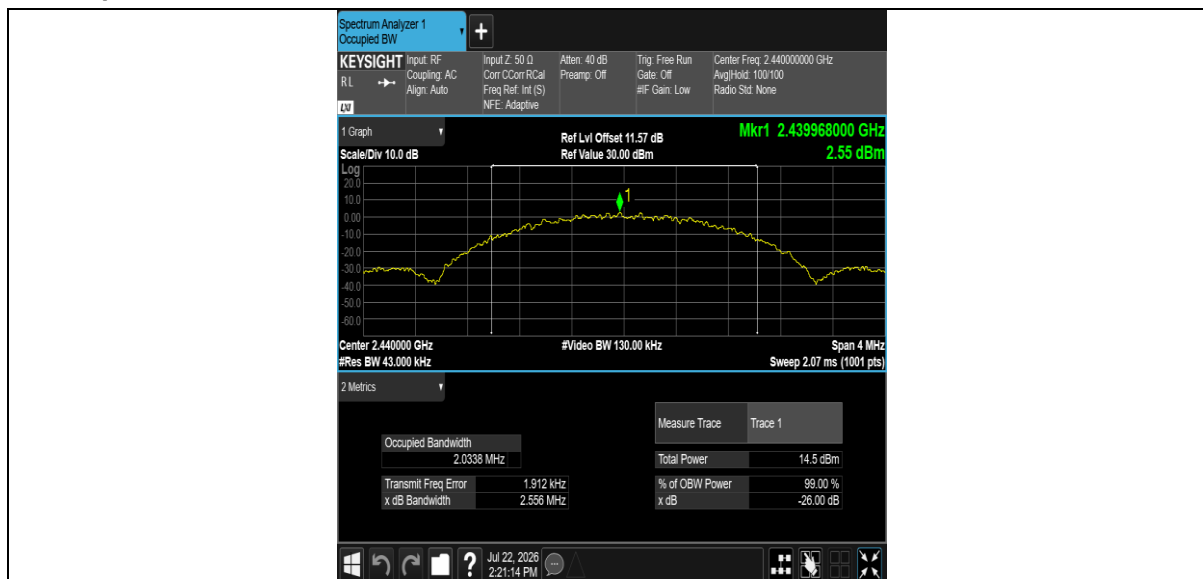
TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0371	2401.4909	2402.5280	---	---
BLE_1M	Ant1	2440	1.0146	2439.4990	2440.5136	---	---
BLE_1M	Ant1	2480	1.0302	2479.4946	2480.5248	---	---
BLE_2M	Ant1	2402	2.0186	2401.0064	2403.0250	---	---
BLE_2M	Ant1	2440	2.0338	2438.9850	2441.0188	---	---
BLE_2M	Ant1	2480	2.0316	2478.9896	2481.0212	---	---

TEST GRAPHS

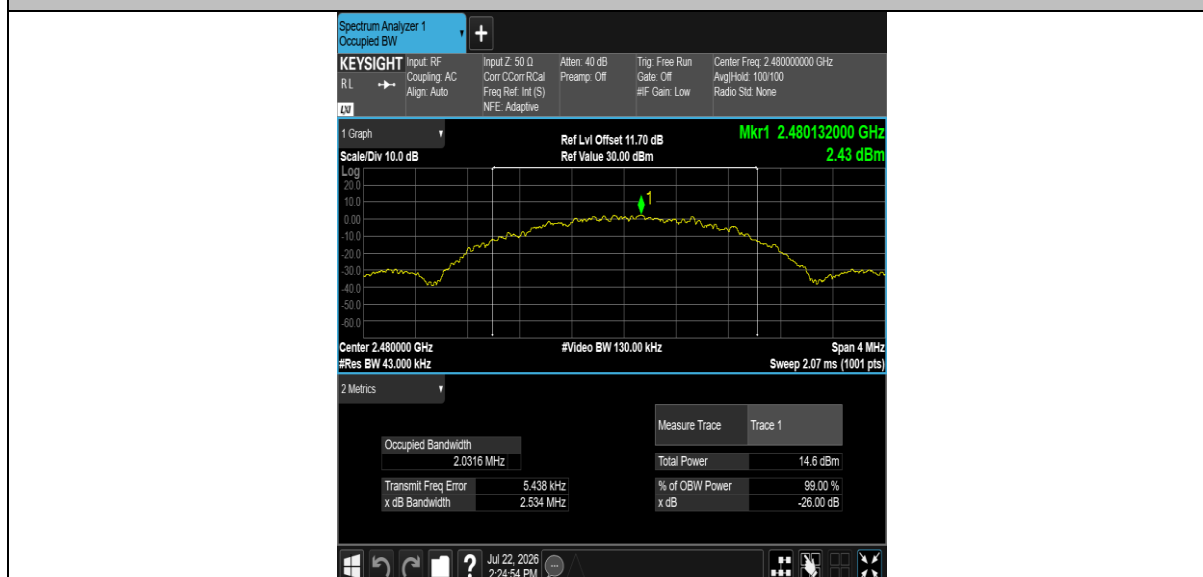


Test Report No.: RF260811B001





BLE_2M-Ant1-2480



Test Report No.: RF260811B001

MAXIMUM CONDUCTED OUTPUT POWER

TEST RESULT PEAK

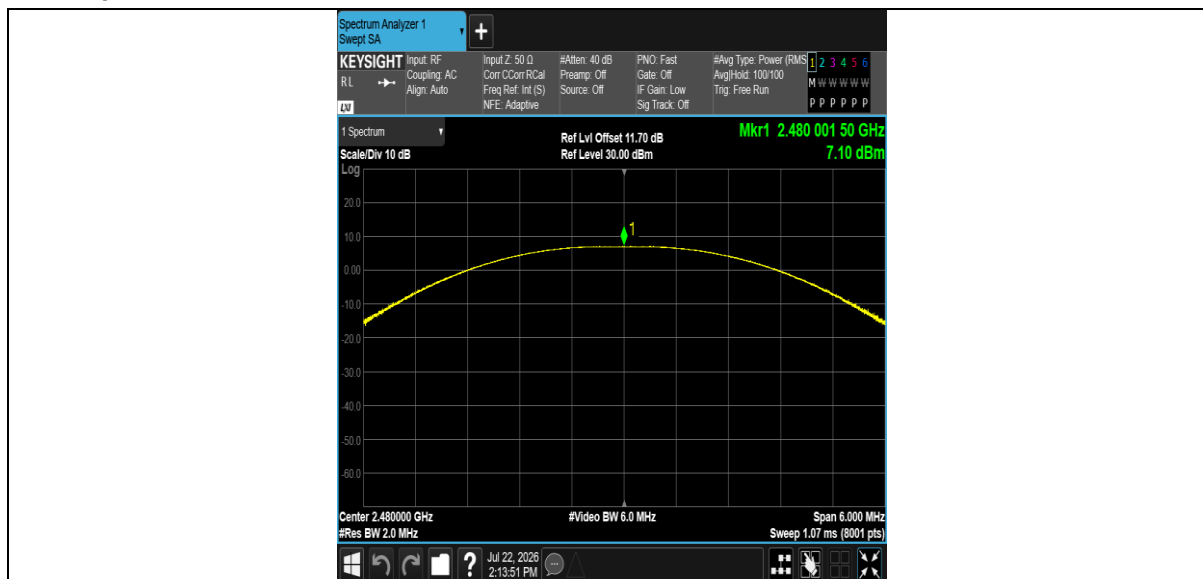
TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	EIRP[dBm]	EIRP Limit[dBm]	Verdict
BLE_1M	Ant1	2402	7.19	≤30	7.69	≤36	PASS
BLE_1M	Ant1	2440	7.24	≤30	7.74	≤36	PASS
BLE_1M	Ant1	2480	7.10	≤30	7.60	≤36	PASS
BLE_2M	Ant1	2402	7.15	≤30	7.65	≤36	PASS
BLE_2M	Ant1	2440	7.13	≤30	7.63	≤36	PASS
BLE_2M	Ant1	2480	6.97	≤30	7.47	≤36	PASS

TEST RESULT AVERAGE

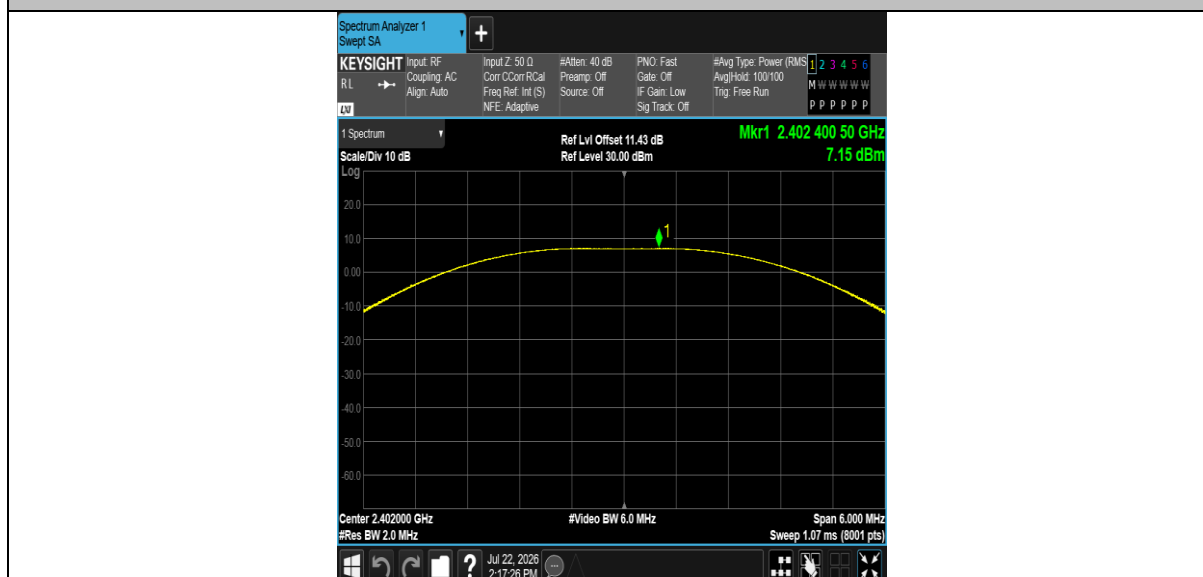
Test Mode	Antenna	Frequency [MHz]	Conducted Sensor power[dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	Verdict
BLE_1M	Ant1	2402	6.16	100.00	0.00	6.16	≤30.00	0.50	6.66	≤36.00	PASS
BLE_1M	Ant1	2440	6.33	100.00	0.00	6.33	≤30.00	0.50	6.83	≤36.00	PASS
BLE_1M	Ant1	2480	6.33	100.00	0.00	6.33	≤30.00	0.50	6.83	≤36.00	PASS
BLE_2M	Ant1	2402	6.16	100.00	0.00	6.16	≤30.00	0.50	6.66	≤36.00	PASS
BLE_2M	Ant1	2440	6.26	100.00	0.00	6.26	≤30.00	0.50	6.76	≤36.00	PASS
BLE_2M	Ant1	2480	6.26	100.00	0.00	6.26	≤30.00	0.50	6.76	≤36.00	PASS

TEST GRAPHS PEAK

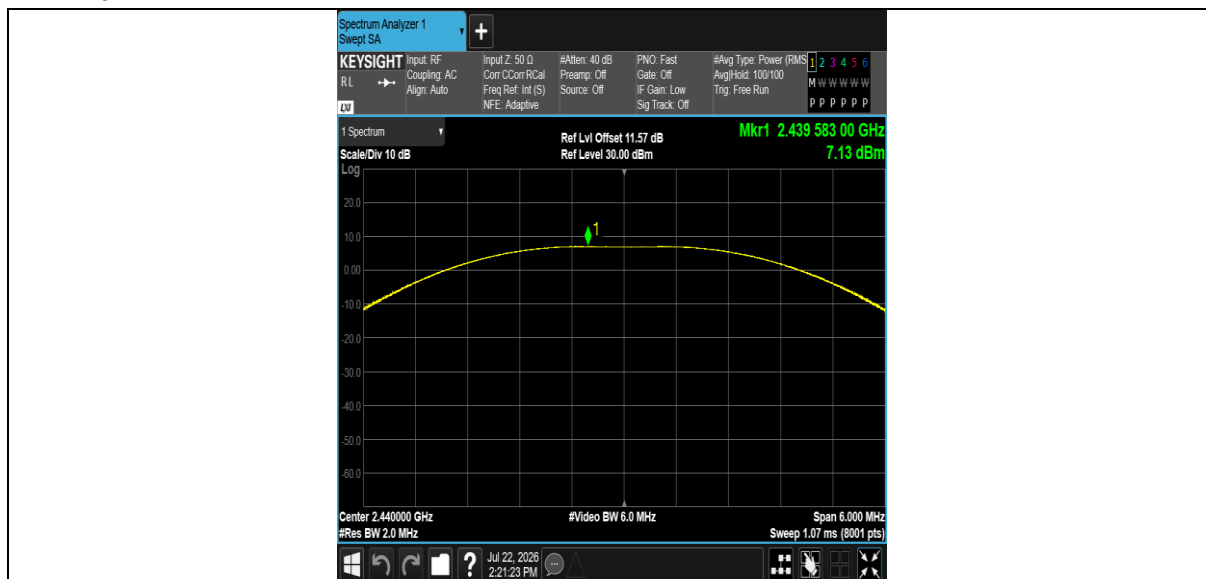




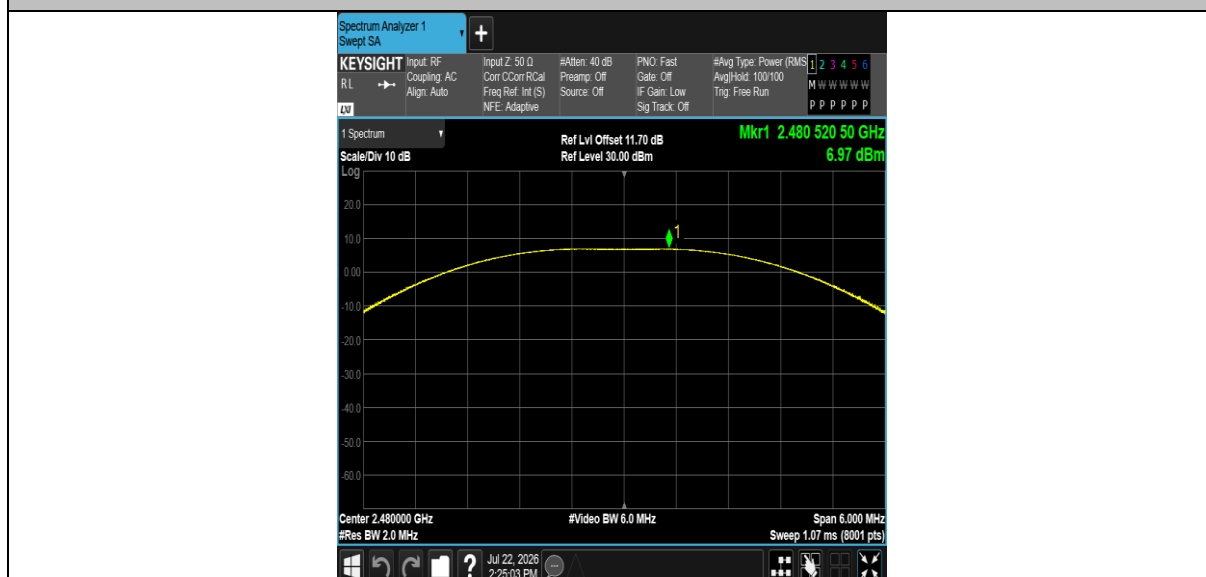
BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2440-PASS



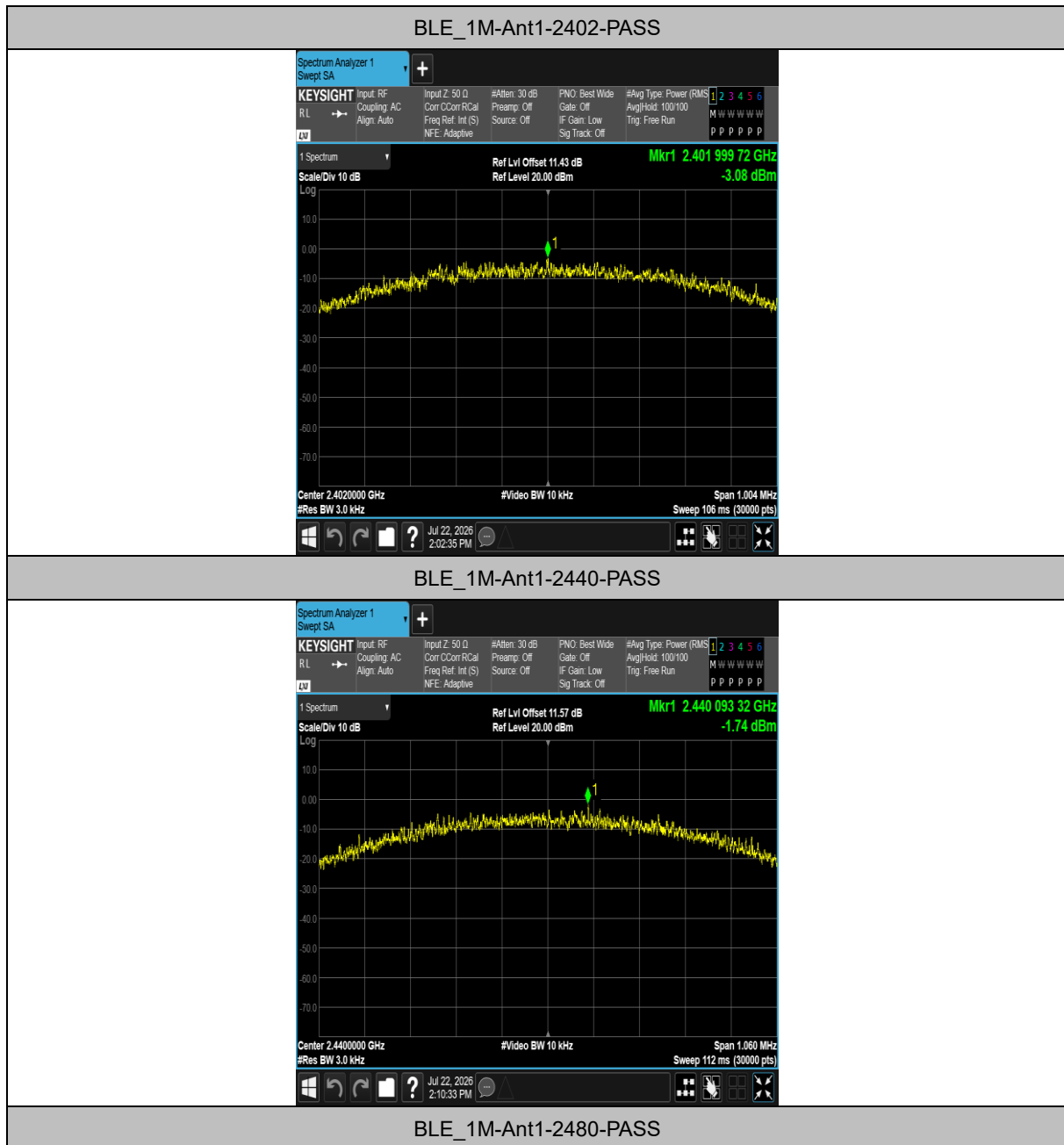
BLE_2M-Ant1-2480-PASS

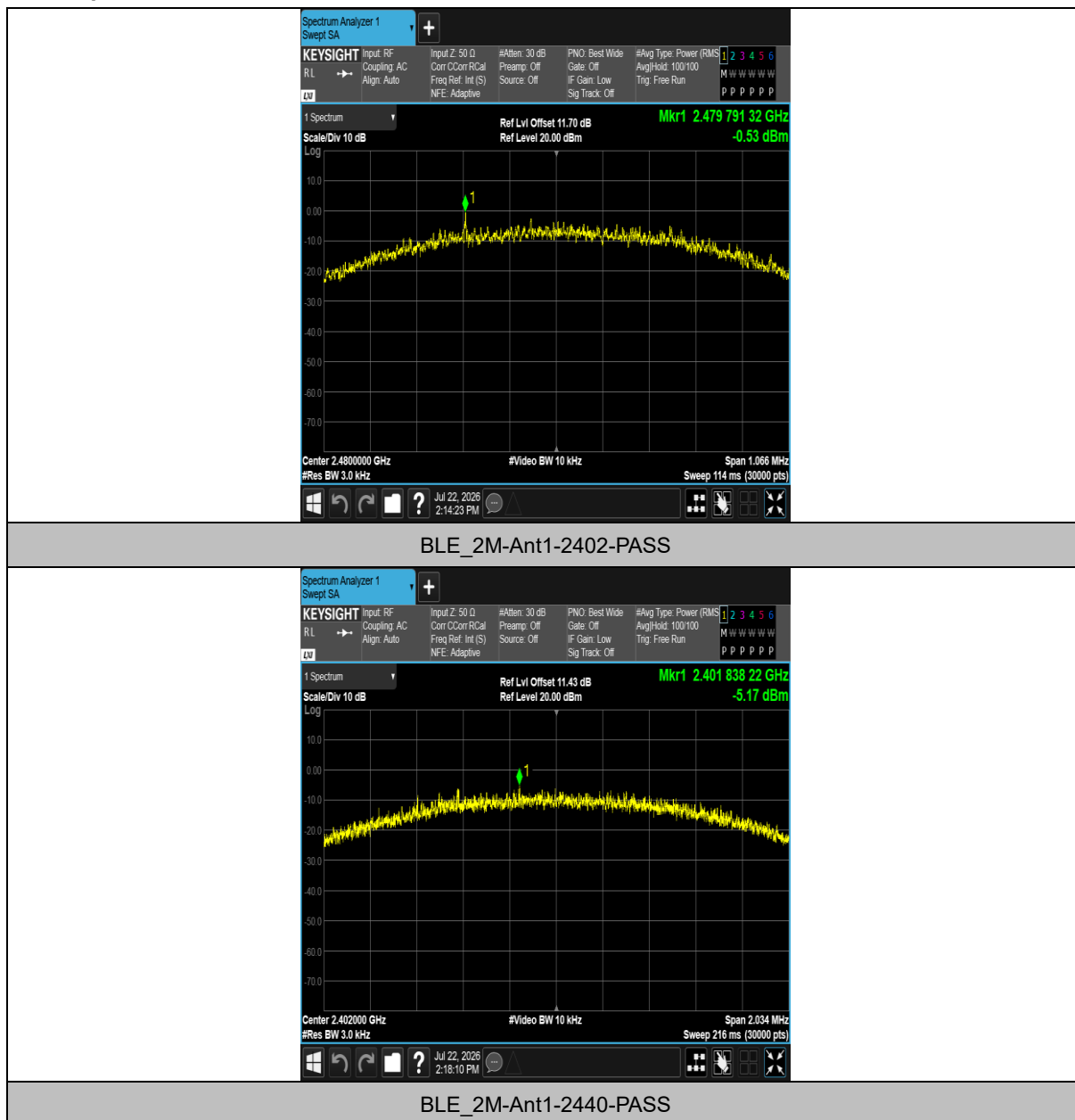


MAXIMUM POWER SPECTRAL DENSITY**TEST RESULT**

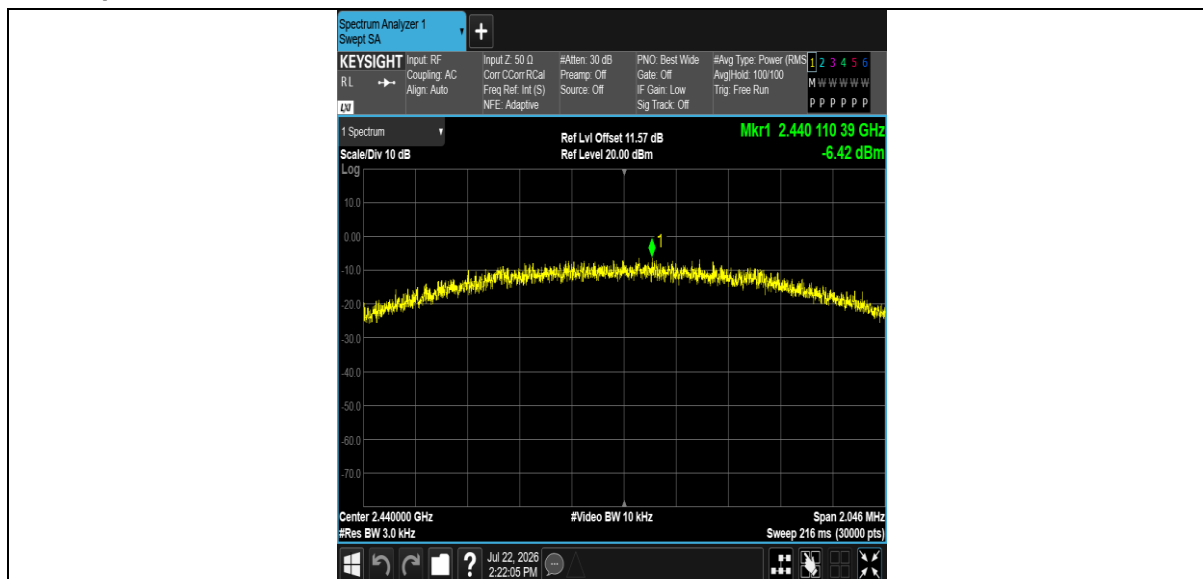
TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-3.09	≤8.00	PASS
BLE_1M	Ant1	2440	-1.74	≤8.00	PASS
BLE_1M	Ant1	2480	-0.53	≤8.00	PASS
BLE_2M	Ant1	2402	-5.18	≤8.00	PASS
BLE_2M	Ant1	2440	-6.42	≤8.00	PASS
BLE_2M	Ant1	2480	-6.21	≤8.00	PASS

TEST GRAPHS

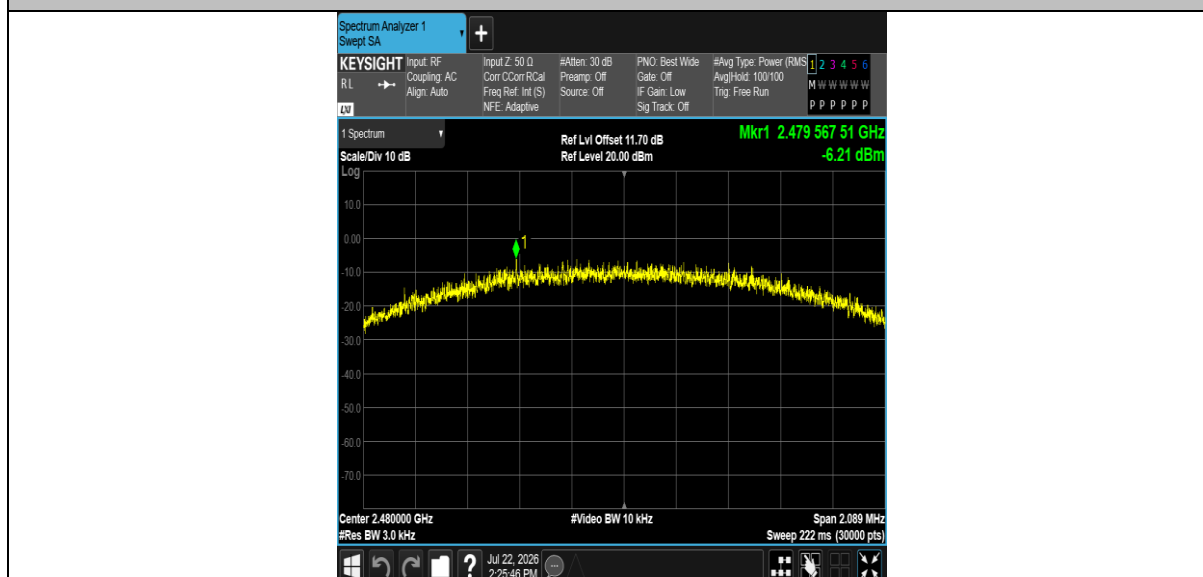




Test Report No.: RF260811B001



BLE_2M-Ant1-2480-PASS





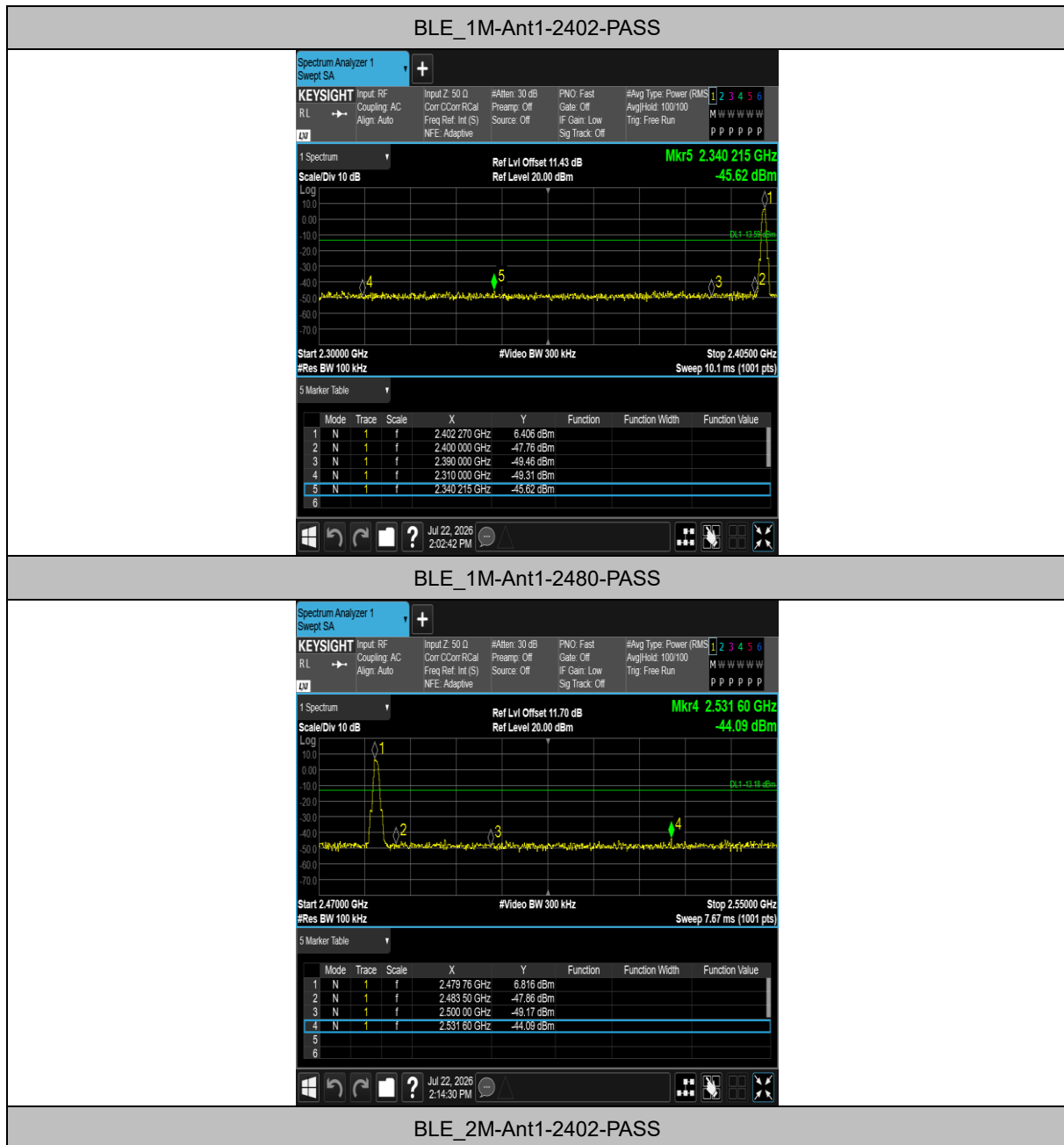
Test Report No.: RF260811B001

BAND EDGE MEASUREMENTS

TEST RESULT

TestMode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	6.41	-45.62	≤-13.59	PASS
BLE_1M	Ant1	High	2480	6.82	-44.09	≤-13.18	PASS
BLE_2M	Ant1	Low	2402	5.20	-27.76	≤-14.8	PASS
BLE_2M	Ant1	High	2480	4.74	-45.07	≤-15.26	PASS

TEST GRAPHS



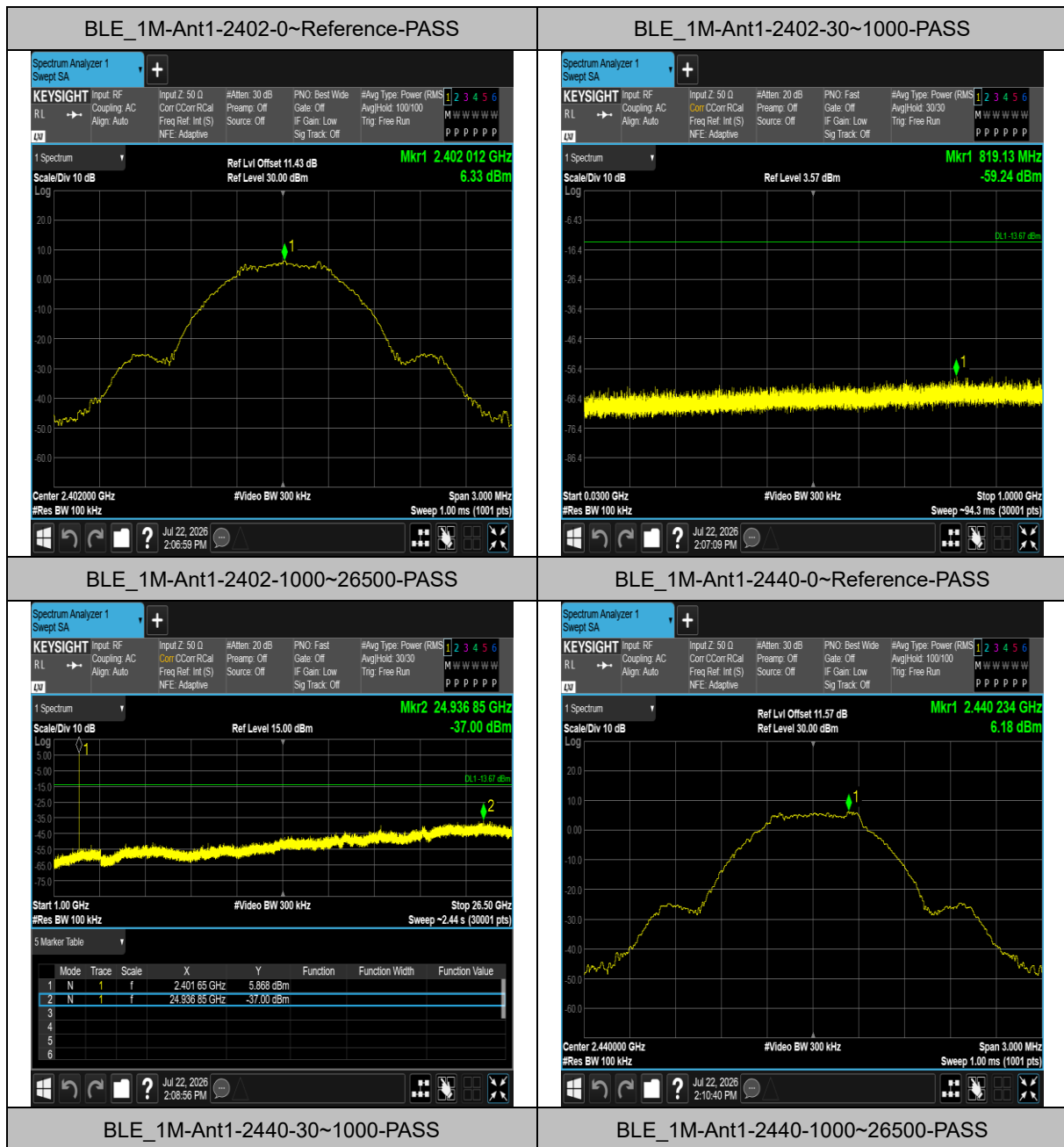


Test Report No.: RF260811B001

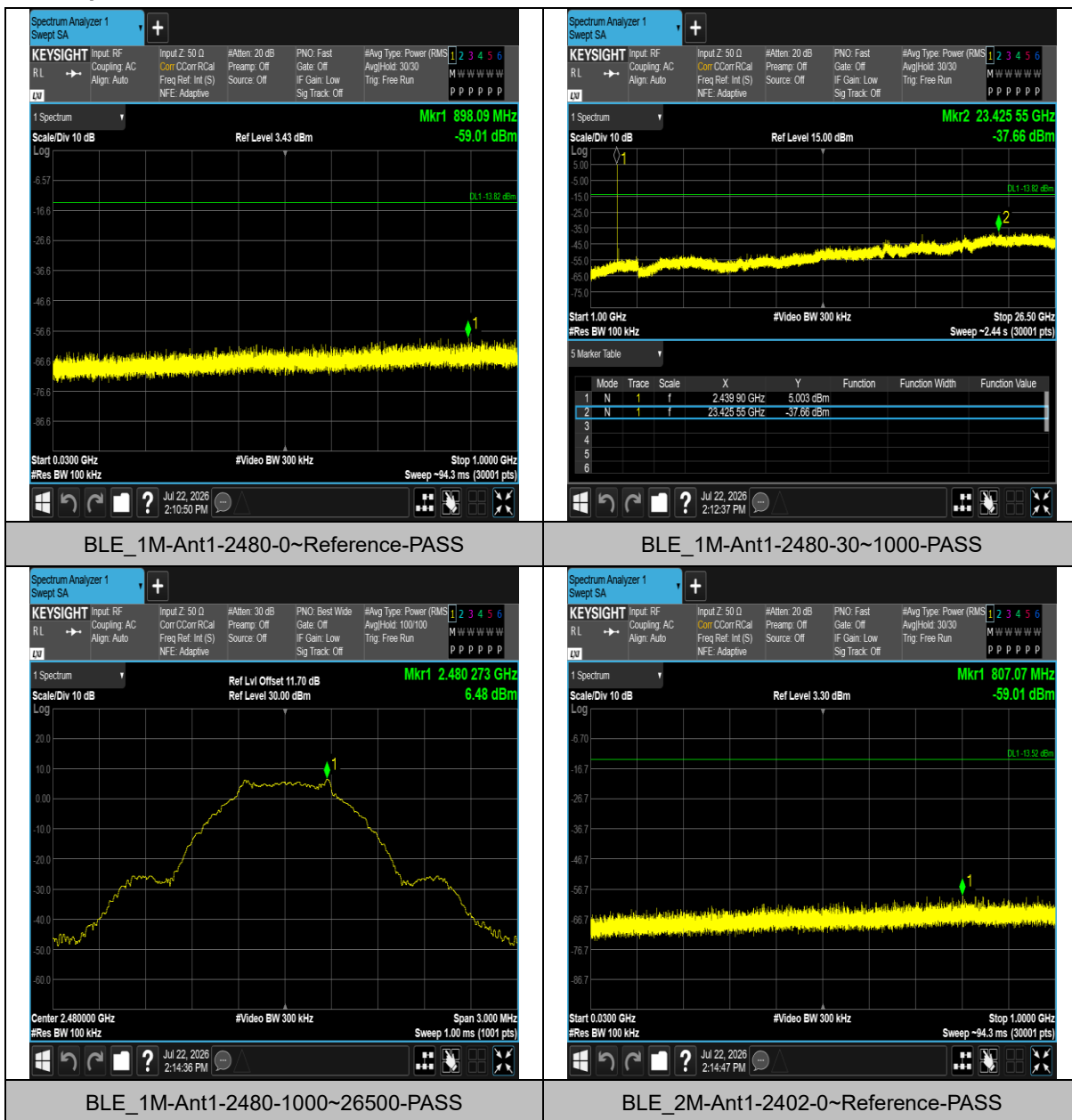
CONDUCTED SPURIOUS EMISSION

TEST RESULT

TestMode	Antenna	Frequency [MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	6.33	6.33	---	PASS
BLE_1M	Ant1	2402	30~1000	6.33	-59.24	≤-13.67	PASS
BLE_1M	Ant1	2402	1000~26500	6.33	-37	≤-13.67	PASS
BLE_1M	Ant1	2440	0~Reference	6.18	6.18	---	PASS
BLE_1M	Ant1	2440	30~1000	6.18	-59.01	≤-13.82	PASS
BLE_1M	Ant1	2440	1000~26500	6.18	-37.66	≤-13.82	PASS
BLE_1M	Ant1	2480	0~Reference	6.48	6.48	---	PASS
BLE_1M	Ant1	2480	30~1000	6.48	-59.01	≤-13.52	PASS
BLE_1M	Ant1	2480	1000~26500	6.48	-37.1	≤-13.52	PASS
BLE_2M	Ant1	2402	0~Reference	5.07	5.07	---	PASS
BLE_2M	Ant1	2402	30~1000	5.07	-58.88	≤-14.93	PASS
BLE_2M	Ant1	2402	1000~26500	5.07	-37.86	≤-14.93	PASS
BLE_2M	Ant1	2440	0~Reference	4.77	4.77	---	PASS
BLE_2M	Ant1	2440	30~1000	4.77	-58.85	≤-15.23	PASS
BLE_2M	Ant1	2440	1000~26500	4.77	-37.36	≤-15.23	PASS
BLE_2M	Ant1	2480	0~Reference	4.68	4.68	---	PASS
BLE_2M	Ant1	2480	30~1000	4.68	-58.62	≤-15.32	PASS
BLE_2M	Ant1	2480	1000~26500	4.68	-37.11	≤-15.32	PASS



Test Report No.: RF260811B001

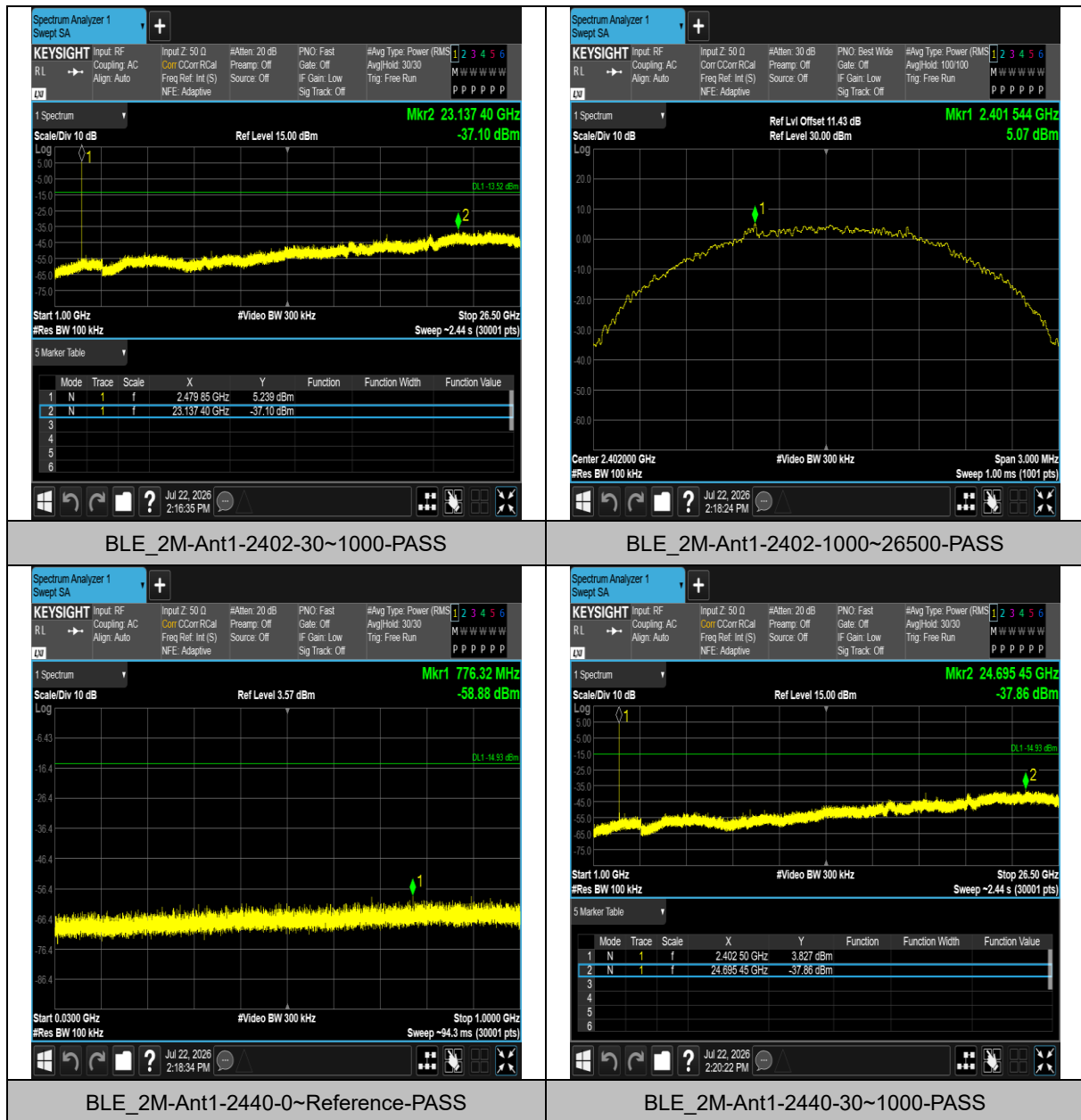


BOOMWAVE TEST (SHENZHEN)
CO., LTD.

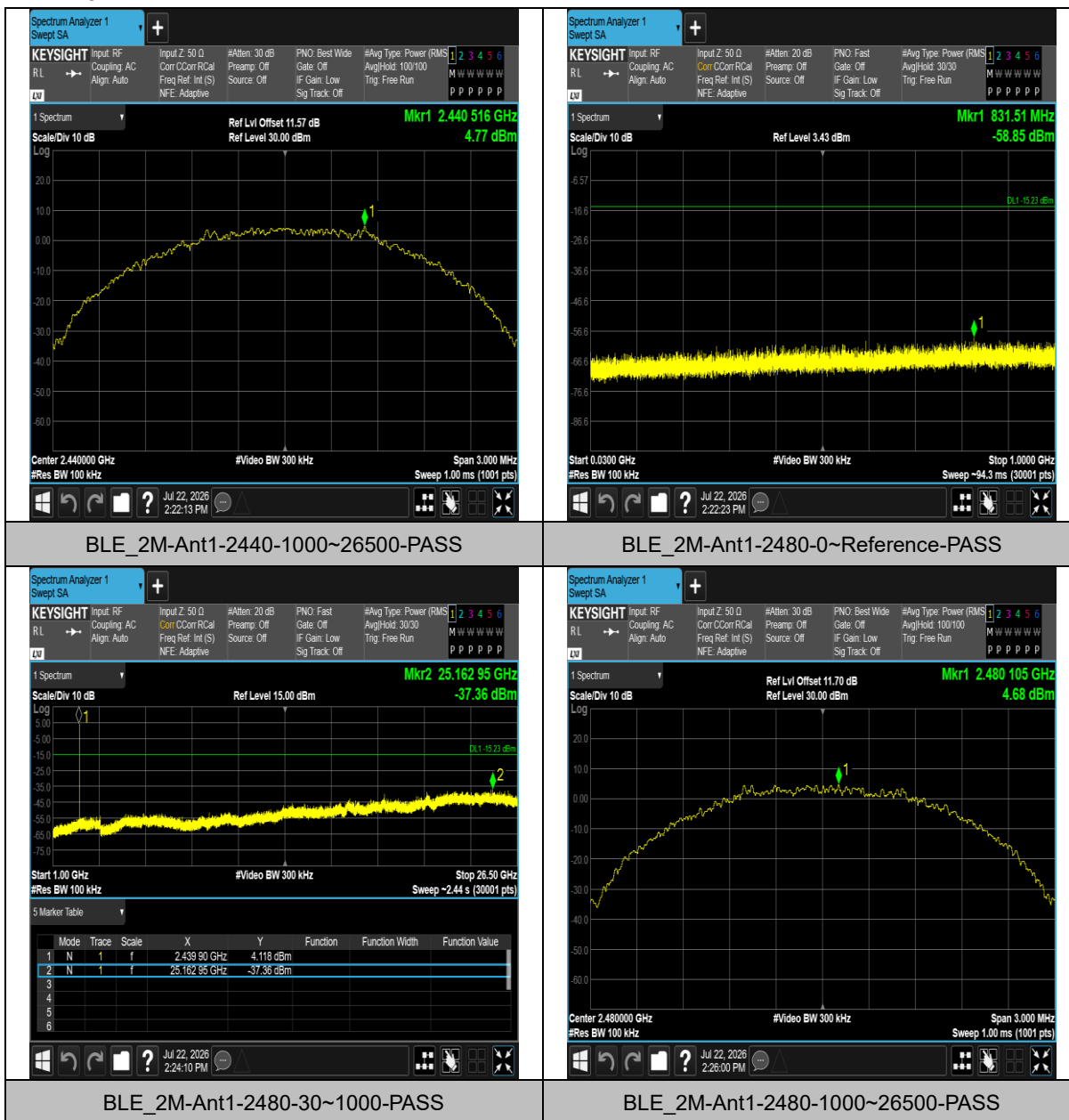
Room B38, Warehouse A5(Chiwan No.1), No.3 Chiwan
4th Road, Chiwan Community, Zhaoshang Street,
Nanshan District, Shenzhen, Guangdong, P.R. CHINA

Mobile: +86 15118052731
Email:shimin.wang@boomwavelab.com

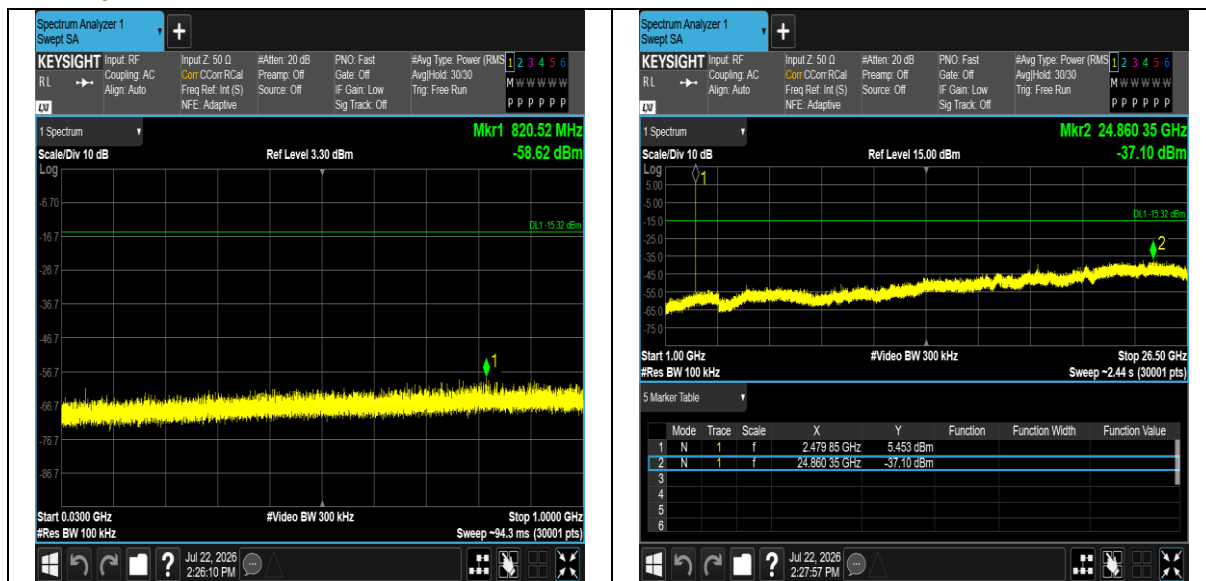
Test Report No.: RF260811B001



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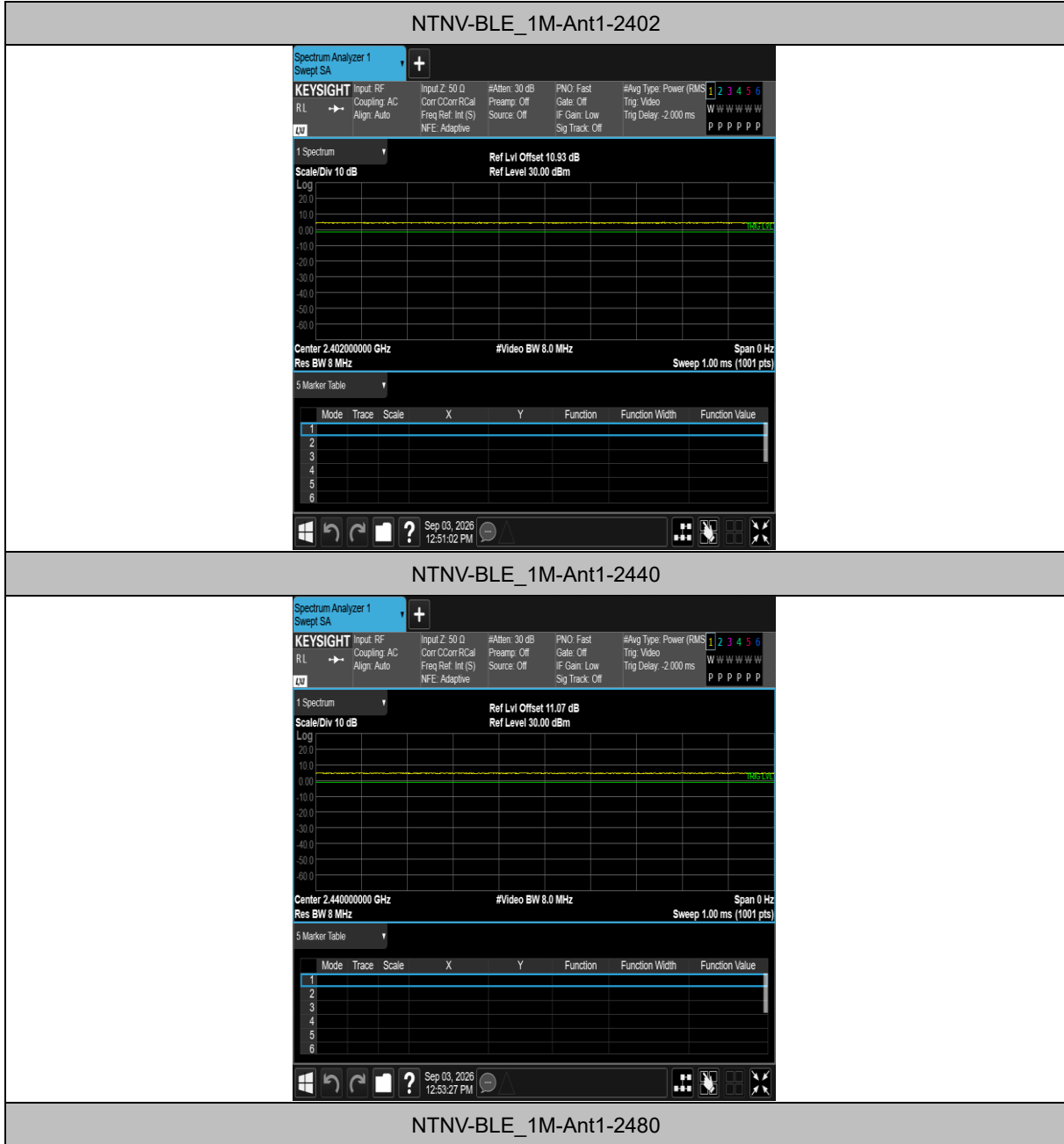
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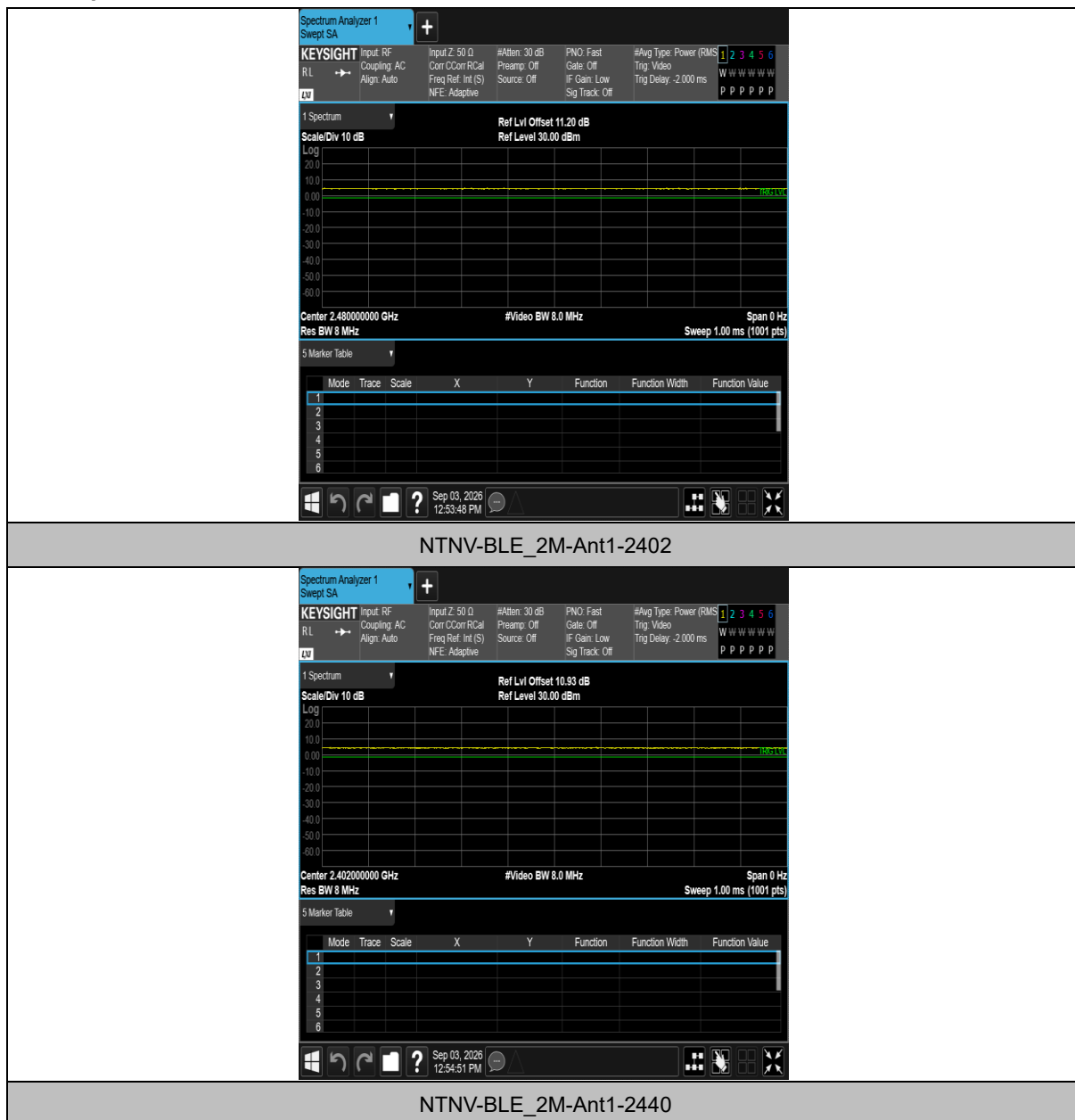
DUTY CYCLE

TEST RESULT

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	1.00	1.00	100.00	0.00
BLE_1M	Ant1	2440	1.00	1.00	100.00	0.00
BLE_1M	Ant1	2480	1.00	1.00	100.00	0.00
BLE_2M	Ant1	2402	1.00	1.00	100.00	0.00
BLE_2M	Ant1	2440	1.00	1.00	100.00	0.00
BLE_2M	Ant1	2480	1.00	1.00	100.00	0.00

TEST GRAPHS





Test Report No.: RF260811B001



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