

Test Report

Verified code: 762452

Report No.: E20230711057201-10

Customer: Lumi United Technology Co., Ltd

Address: B1, Chongwen Park, Nanshan iPark, Liuxian Avenue, Taoyuan Residential District,
Nanshan District, Shenzhen, China

Sample Name: Camera E1

Sample Model: CH-C01E

Receive Sample Date: Jul.12,2023

Test Date: Jul.26,2023 ~ Aug.15,2023

Reference Document: CFR 47, FCC Part 15 Subpart C
RADIO FREQUENCY DEVICES:Subpart C—Intentional Radiators

Test Result: Pass

Prepared by: Huang Lifang
Huang Lifang

Reviewed by: Jiang Tao
Jiang Tao

Approved by: Xiao Liang
Xiao Liang



GRG METROLOGY & TEST GROUP CO., LTD.

Issued Date: 2023-08-25

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5. Without the agreement of the laboratory, the client is not authorized to use the test results for unapproved propaganda.

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REPORT ISSUED HISTORY

Report Version	Report No.	Description	Compile Date
1.0	E20230711057201-10	Original Issue	2023-08-17

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1. TEST RESULT SUMMARY

Technical Requirements		
FCC 47 CFR Part 15 Subpart C 15.247 ANSI C63.10-2013 KDB 558074 D01 15.247 measurement guidance v05r02		
Limit / Severity	Item	Result
§15.203	Antenna Requirement	Pass ¹⁾
§15.207(a)	Conducted Emission	Pass
§15.247(d)&15.205& 15.209	Radiated Spurious Emission	Pass
§15.247(b)(3)	Maximum Peak Output Power	Pass
§15.247(e)	Power Spectral Density	Pass
§15.247(a)(2)	6dB bandwidth	Pass
§15.247(d)	Conducted band edges and Spurious Emission	Pass
§15.247(d)&15.205& 15.209	Restricted bands of operation	Pass

Note:

¹⁾ The EUT antenna is IFA antenna. The max gain of Antenna is -0.07dBi which accordance 15.203 is considered sufficient to comply with the provisions of this section.

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2. GENERAL DESCRIPTION OF EUT

2.1 APPLICANT

Name: Lumi United Technology Co., Ltd
Address: B1, Chongwen Park, Nanshan iPark, Liuxian Avenue, Taoyuan Residential District, Nanshan District, Shenzhen, China

2.2 MANUFACTURER

Name: Lumi United Technology Co., Ltd
Address: B1, Chongwen Park, Nanshan iPark, Liuxian Avenue, Taoyuan Residential District, Nanshan District, Shenzhen, China

2.3 BASIC DESCRIPTION OF EQUIPMENT UNDER TEST

Equipment: Camera E1
Model No.: CH-C01E
Adding Model: /
Trade Name: Aqara
FCC ID: 2AKIT-CHC01E
Power supply: DC 5V, 2A
Battery Specification: /
Frequency Band: 2402-2480MHz
Transmit Power: GFSK for 1Mbps:9.18dBm;
GFSK for 2Mbps:9.21dBm
Modulation type: Bluetooth LE with 1M&2M:GFSK
Channel space: 2MHz
Antenna Specification: IFA antenna with -0.07dBi gain (Max.)
Temperature Range: -10℃~+45℃
Hardware Version: YuYun-MAIN-01A-2
Software Version: 4.0.1_0026
Sample No: E20230711057201-0002, E20230711057201-0005

Note: The EUT antenna gain is provided by the applicant. This report is made solely on the basis of such data and/or information. We accept no responsibility for the authenticity and completeness of the above data and information and the validity of the results and/or conclusions.

2.4 CHANNELLIST

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
*00	2402	10	2422	20	2442	30	2462
01	2404	11	2424	21	2444	31	2464
02	2406	12	2426	22	2446	32	2466
03	2408	13	2428	23	2448	33	2468
04	2410	14	2430	24	2450	34	2470
05	2412	15	2432	25	2452	35	2472
06	2414	16	2434	26	2454	36	2474
07	2416	17	2436	27	2456	37	2476
08	2418	18	2438	28	2458	38	2478
09	2420	*19	2440	29	2460	*39	2480

* is the test frequency

2.5 TEST OPERATION MODE

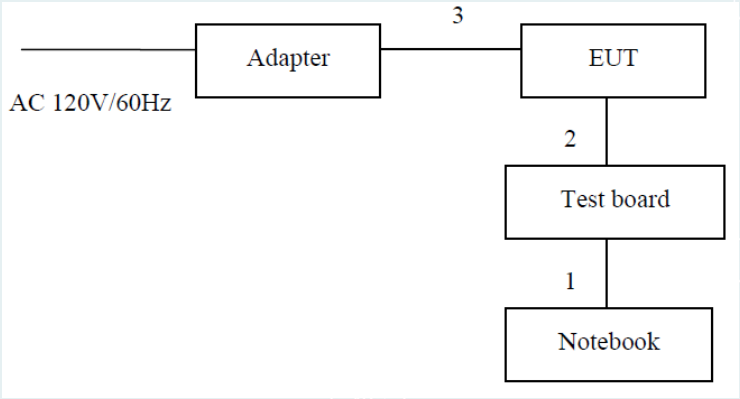
Mode No.	Description of the modes
1	Bluetooth (BLE) fixed frequency transmitting

2.6 LOCAL SUPPORTIVE

No.	Name of equipment	Manufacturer	Model	Serial number	Note
A	Notebook	DELL	Latitude3490	2095LR2	/
B	Test board	/	/	/	/
C	Adapter	Sangu	SG-0502000AP	/	/

No.	Cable Type	Qty.	Shielded Type	Ferrite Core(Qty.)	Length
1	USB extension cable	1	No	0	1.5m
2	DC cable	1	No	0	0.2m
3	Type C to USB cable	1	No	0	1.0m

2.7 CONFIGURATION OF SYSTEM UNDER TEST



Test software:

Software version	Test level
QCOM_V1.0	8

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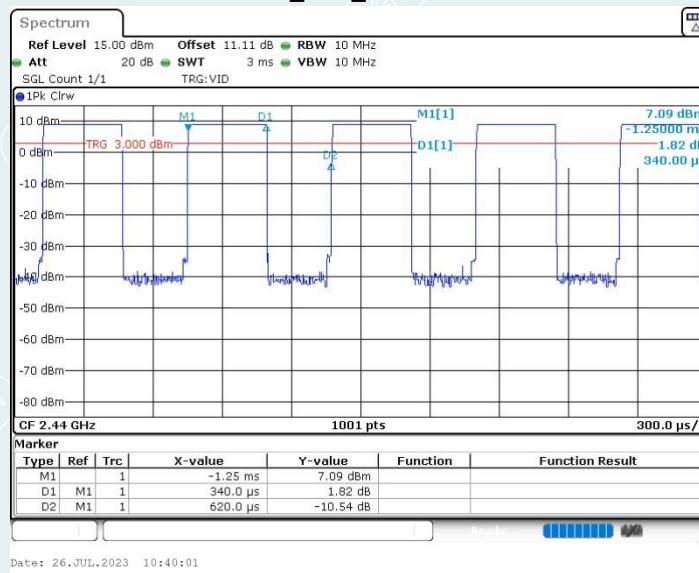
2.8 DUTY CYCLE

Environment: 24.2°C/60%RH
Tested By: Huang Tianmei

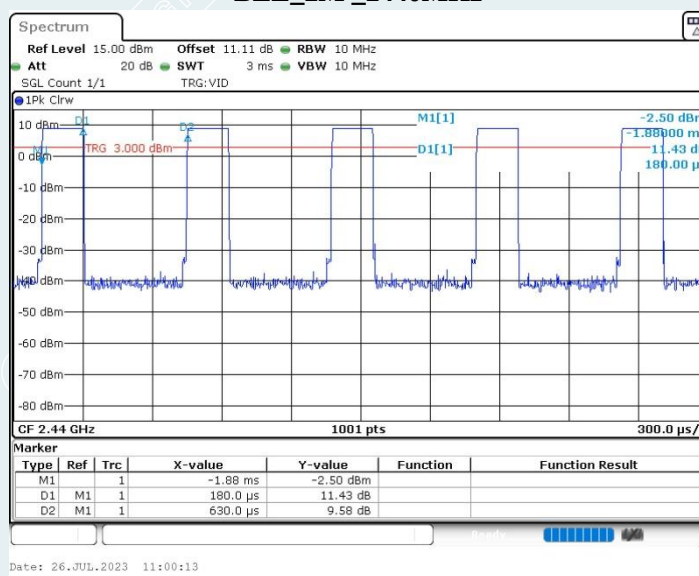
Voltage: AC 120V/60Hz
Date: 2023-07-26

Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	DC [%]	T [s]
BLE_1M	Ant1	2440	0.34	0.62	54.84	0.00034
BLE_2M	Ant1	2440	0.18	0.63	28.57	0.00018

BLE_1M_2440MHz



BLE_2M_2440MHz



3. LABORATORY AND ACCREDITATIONS

3.1 LABORATORY

The tests & measurements refer to this report were performed by Shenzhen EMC Laboratory of GRG METROLOGY & TEST GROUP CO., LTD.

Add : No.1301 Guangang Road Xinlan Community, Guanlan Street, Longhua District
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P.C. : 518110

Tel : 0755-61180008

Fax : 0755-61180008

3.2 ACCREDITATIONS

Our laboratories are accredited and approved by the following approval agencies according to GB/T 27025(ISO/IEC 17025:2017)

USA A2LA(Certificate #2861.01)

The measuring facility of laboratories has been authorized or registered by the following approval agencies.

Canada ISED (Company Number: 24897, CAB identifier:CN0069)

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Copies of granted accreditation certificates are available for downloading from our web site,
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4. 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		Frequency	Uncertainty
Radiated Emission	Coplanar	9kHz~30MHz	4.4dB ¹⁾
	Coaxial	9kHz~30MHz	4.4dB ¹⁾
	Horizontal	30MHz~200MHz	4.6dB ¹⁾
		200MHz~1000MHz	4.8dB ¹⁾
		1GHz~18GHz	5.0dB ¹⁾
		18GHz~26.5GHz	5.2dB ¹⁾
	Vertical	30MHz~200MHz	4.7dB ¹⁾
		200MHz~1000MHz	4.7dB ¹⁾
		1GHz~18GHz	5.1dB ¹⁾
		18GHz~26.5GHz	5.4dB ¹⁾
Conduction Emission		150kHz~30MHz	3.3 dB ¹⁾

Measurement	Uncertainty
RF frequency	6.0×10^{-6}
RF power conducted	0.8dB
Power spectral density conducted	0.8dB
Occupied channel bandwidth	0.4dB
Unwanted emission, conducted	0.7dB
Humidity	6%
Temperature	2°C

Note:

¹⁾ This uncertainty represents an expanded uncertainty expressed at approximately the 95%.
This uncertainty represents an expanded uncertainty factor of $k=2$.

5. LIST OF USED TEST EQUIPMENT AT GRGT

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Conducted Emissions				
EZ-EMC	EZ	CCS-3A1-CE	/	/
EMI Receiver	R&S	ESCI	100783	2023-08-28
LISN(EUT)	R&S	ENV216	101543	2023-09-13
Radiated Spurious Emission&Restricted bands of operation				
Loop Antenna	Schwarzbeck	FMZB 1513-60	1513-60-56	2024-07-15
Preamplifier	SHIRONG ELECTRONIC	DLNA-30M1G-G41	20200928002	2023-08-19
Bi-log Antenna	Schwarzbeck	VULB9160	VULB9160-3402	2023-10-23
Horn Antenna	Schwarzbeck	BBHA 9120D	02143	2023-10-15
Test Receiver	R&S	ESR26	101758	2023-10-27
Board-Band Horn Antenna	Schwarzbeck	BBHA 9170	BBHA 9170-497	2023-10-14
Amplifier	Tonscend	TAP01018048	AP20E8060075	2024-04-11
Amplifier	Tonscend	TAP184050	AP20E806071	2024-04-16
Amplifier	SHIRONG ELECTRONIC	DLNA-1G18G-G40	20200928005	2023-08-27
Test S/W	Tonscend	JS32-RE/5.0.0		
6 dB Bandwidth & Power Spectral Density & Conducted band edges and Spurious Emission				
Spectrum Analyzer	R&S	FSV30	104381	2023-11-17
Automatic power measuring unit	TONSCEND	JS0806-2	21B8060365	2023-11-17
BT/WiFi system	TONSCEND	JS1120-3	/	/
Output Power				
Pulse power sensor	Anristu	MA2411B	1126150	2024-02-12
Power meter	Anristu	NL2495A	1204003	2024-02-12

Note: The calibration cycle of the above instruments is 12 months except for the Bi-log Antenna which is 24 months.

6. CONDUCTED EMISSION MEASUREMENT

6.1. LIMITS

Frequency range	Limits (dB μ V)	
	Quasi-peak	Average
150kHz~0.5MHz	66~56	56~46
0.5MHz~5MHz	56	46
5MHz~30MHz	60	50

6.2. TEST PROCEDURES

Procedure of Preliminary Test

For measurement of the disturbance voltage the equipment under test (EUT) is connected to the power supply mains and any other extended network via one or more artificial network(s). An EUT, whether intended to be grounded or not, and which is to be used on a table is configured as follows:

- Either the bottom or the rear of the EUT shall be at a controlled distance of 40 cm from a reference ground plane. This ground plane is normally the wall or floor of a shielded room. It may also be a grounded metal plane of at least 2 m by 2 m. This is physically accomplished as follows:

- 1) Place the EUT on a table of non-conducting material which is at least 80 cm high. Place the EUT so that it is 40 cm from the wall of the shielded room, or

- 2) place the EUT on a table of non-conducting material which is 40 cm high so that the bottom of the EUT is 40 cm above the ground plane;

- All other conductive surfaces of the EUT shall be at least 80 cm from the reference ground plane;

- The EUT are placed on the floor that one side of the housings is 40 cm from the vertical reference ground plane and other metallic parts;

- Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth forming a bundle 30 cm to 40 cm long, hanging approximately in the middle between the ground plane and the table.

- I/O cables that are connected to a peripheral shall be bundled in the centre. The end of the cable may be terminated if required using correct terminating impedance. The total length shall not exceed 1 m.

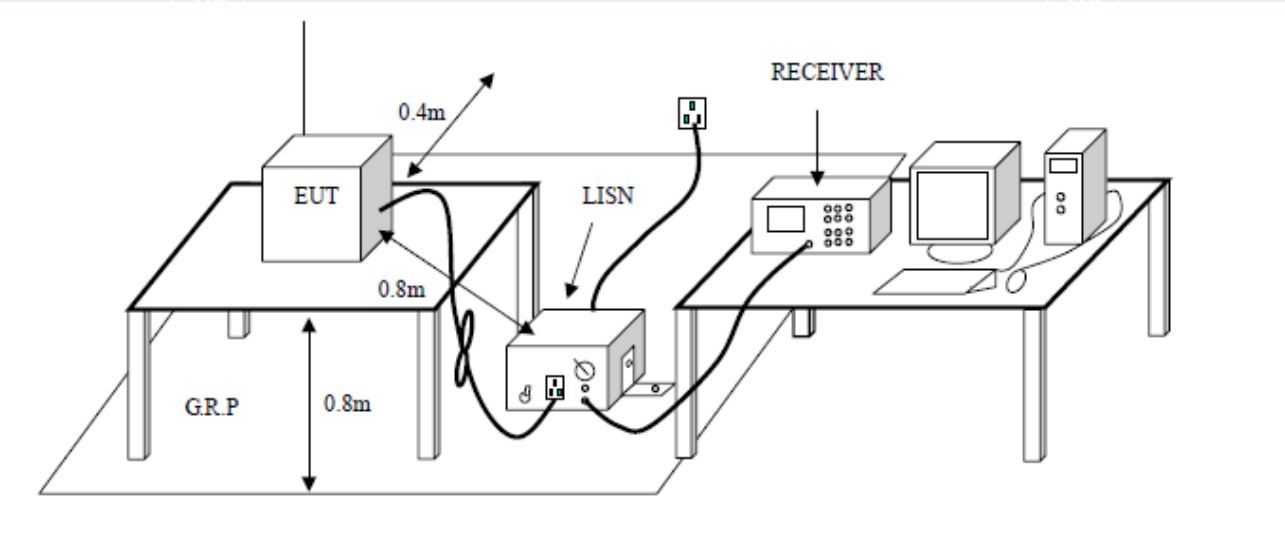
The test mode(s) described in Item 2.5 were scanned during the preliminary test. After the preliminary scan, we found the test mode described in Item 2.5 producing the highest emission level. The EUT configuration and cable configuration of the above highest emission levels were recorded for reference of the final test.

Procedure of Final Test

EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test. A scan was taken on both power lines, recording at least the six highest emissions.

Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. The test data of the worst-case condition(s) was recorded.

6.3. TEST SETUP



6.4. DATA SAMPLE

Frequency (MHz)	QuasiPeak Reading (dBuV)	Average Reading (dBuV)	Correction Factor (dB)	QuasiPeak Result (dBuV)	Average Result (dBuV)	QuasiPeak Limit (dBuV)	Average Limit (dBuV)	QuasiPeak Margin (dB)	Average Margin (dB)	Remark (Pass/Fail)
X.XXXX	32.69	25.65	11.52	44.21	37.17	65.78	55.79	-21.57	-18.62	Pass

- Factor
- = Insertion loss of LISN + Cable Loss
- Result
- = Quasi-peak Reading/ Average Reading + Factor
- Limit
- = Limit stated in standard
- Margin
- = Result (dBuV) – Limit (dBuV)

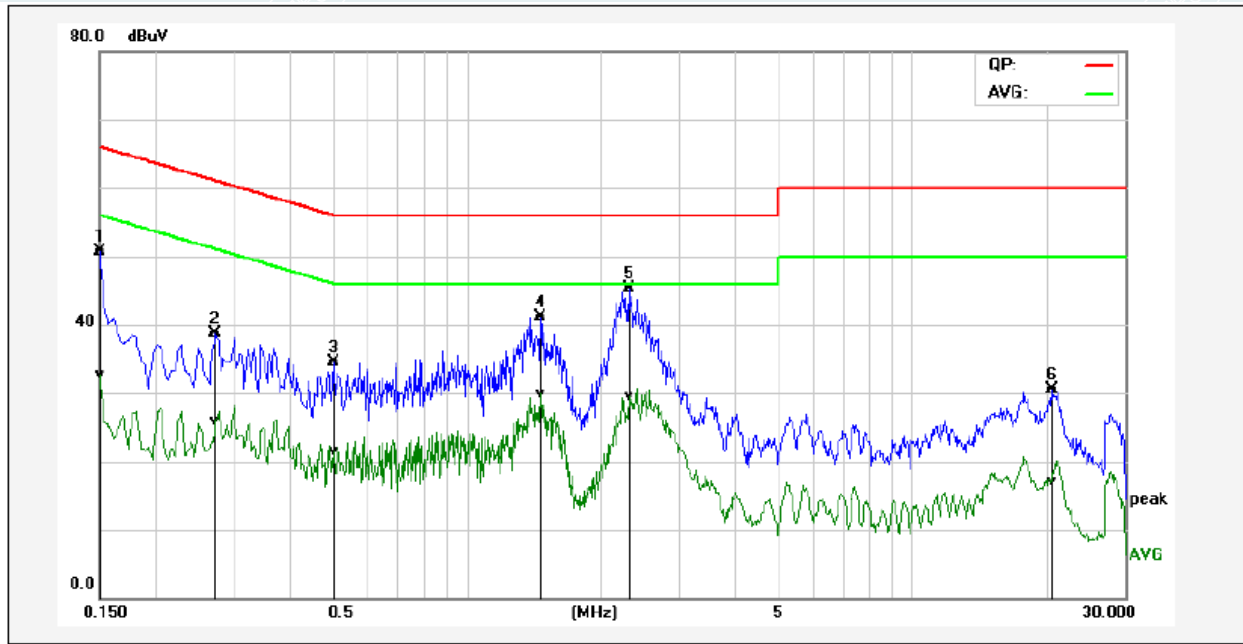
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6.5. TEST RESULTS

All models were pretested and only the worst modes and channels were recorded in this report.
(BLE_2M_2480MHz)

EUT Name	Camera E1	Model	CH-C01E
Environmental Conditions	23.8°C/54%RH	Test Mode	MODE 1
Tested By	Huang Xinlong	Line	L
Tested Date	2023-08-15	Test Voltage	AC 120V/60Hz

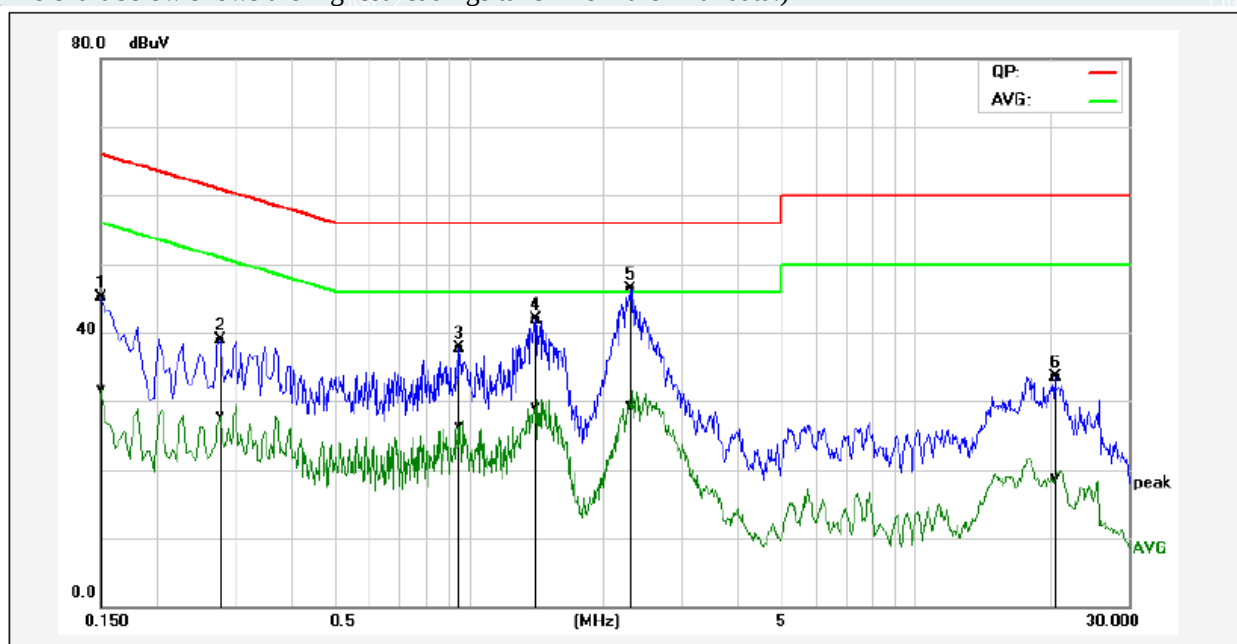
(The chart below shows the highest readings taken from the final data.)



No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1	0.1500	41.08	23.06	9.66	50.74	32.72	65.99	56.00	-15.25	-23.28	Pass
2	0.2740	29.04	16.33	9.67	38.71	26.00	60.99	51.00	-22.28	-25.00	Pass
3	0.5020	24.89	11.80	9.69	34.58	21.49	56.00	46.00	-21.42	-24.51	Pass
4	1.4660	31.42	20.16	9.70	41.12	29.86	56.00	46.00	-14.88	-16.14	Pass
5*	2.3179	35.51	19.80	9.72	45.23	29.52	56.00	46.00	-10.77	-16.48	Pass
6	20.5620	20.48	7.19	9.98	30.46	17.17	60.00	50.00	-29.54	-32.83	Pass

EUT Name	Camera E1	Model	CH-C01E
Environmental Conditions	23.8°C/54%RH	Test Mode	MODE 1
Tested By	Huang Xinlong	Line	N
Tested Date	2023-08-15	Test Voltage	AC 120V/60Hz

(The chart below shows the highest readings taken from the final data.)



No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1	0.1500	35.44	22.10	9.65	45.09	31.75	65.99	56.00	-20.90	-24.25	Pass
2	0.2779	29.30	18.16	9.66	38.96	27.82	60.88	50.88	-21.92	-23.06	Pass
3	0.9500	28.03	16.58	9.70	37.73	26.28	56.00	46.00	-18.27	-19.72	Pass
4	1.4180	32.22	19.45	9.70	41.92	29.15	56.00	46.00	-14.08	-16.85	Pass
5*	2.3060	36.65	19.64	9.71	46.36	29.35	56.00	46.00	-9.64	-16.65	Pass
6	20.5860	23.42	8.75	10.02	33.44	18.77	60.00	50.00	-26.56	-31.23	Pass

7. RADIATED SPURIOUS EMISSIONS

7.1. LIMITS

In any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30dB instead of 20dB. Attenuation below the general limits specified in §15.209(a) is not required.

Frequency (MHz)	Quasi-peak($\mu\text{V}/\text{m}$)	Measurement distance(m)	Quasi-peak(dB $\mu\text{V}/\text{m}$)@distance 3m
0.009-0.490	2400/F(kHz)	300	128.5~93.8
0.490-1.705	24000/F(kHz)	30	73.8~63
1.705-30.0	30	30	69.5
30 ~ 88	100	3	40
88~216	150	3	43.5
216 ~ 960	200	3	46
Above 960	500	3	54

NOTE:

- (1) The emission limits for the ranges 9-90kHz and 110-490kHz are based on measurements employing a linear average detector.
- (2) The lower limit shall apply at the transition frequencies.

7.2. TEST PROCEDURES

1) Sequence of testing 9kHz to 30MHz

Setup:

- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- If the EUT is a tabletop system, a rotatable table with 0.8m height is used.
- If the EUT is a floor standing device, it is placed on the ground.
- Auxiliary equipment and cables were positioned to simulate fixed frequency transmitting conditions.
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- The measurement distance is 3meter.
- The EUT was set into operation.

Pre measurement:

- The turntable rotates from 0 °to 360 °.
- The antenna height is 1.0 meter.
- The antenna is polarized Coplanar and Coaxial.
- At each turntable position the analyzer sweeps with peak detection to find the maximum of all emissions

Final measurement:

- Identified emissions during the pre measurement the software maximizes by rotating the turntable position (0 °to 360 °) and by rotating the elevation axes (0 °to 360 °).

--- The final measurement will be done in the position (turntable and elevation) causing the highest emissions with QP detector.

--- The final levels, frequency, measuring time, bandwidth, turntable position, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the pre measurement and the limit will be stored.

2) Sequence of testing 30MHz to 1GHz

Setup:

--- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.

--- If the EUT is a tabletop system, a table with 0.8m height is used, which is placed on the ground plane.

--- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.

--- Auxiliary equipment and cables were positioned to simulate fixed frequency transmitting conditions.

--- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.

--- The measurement distance is 3 meter.

--- The EUT was set into operation.

Pre measurement:

--- The turntable rotates from 0 °to 360 °.

--- The antenna is polarized vertical and horizontal.

--- The antenna height changes from 1 to 4 meter.

--- At each turntable position, antenna polarization and height the analyzer sweeps three times in peak to find the maximum of all emissions.

Final measurement:

--- The final measurement will be performed with minimum the six highest peaks.

--- According to the maximum antenna and turntable positions of pre measurement the software maximize the peaks by changing turntable rotates from 0 °to 360 °and antenna movement between 1 and 4 meter.

--- The final measurement will be done with QP detector with an EMI receiver.

--- The final levels, frequency, measuring time, bandwidth, antenna height, antenna polarization, turntable angle, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the pre measurement with marked maximum final measurements and the limit will be stored.

3) Sequence of testing 1GHz to 18GHz

Setup:

--- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.

--- If the EUT is a tabletop system, a rotatable table with 1.5m height is used.

--- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.

--- Auxiliary equipment and cables were positioned to simulate fixed frequency transmitting conditions.

--- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.

--- The measurement distance is 3 meter.

--- The EUT was set into operation.

Pre measurement:

- The turntable rotates from 0 °to 360 °.
- The antenna is polarized vertical and horizontal.
- The antenna height scan range is 1 meter to 4 meter.
- At each turntable position and antenna polarization the analyzer sweeps with peak detection to find the maximum of all emissions.

Final measurement:

- The final measurement will be performed with minimum the six highest peaks.
- According to the maximum antenna and turntable positions of pre measurement the software maximize the peaks by changing turntable rotates from 0 °to 360 °and antenna movement between 1 and 4 meter. This procedure is repeated for both antenna polarizations.
- The final measurement will be done in the position (turntable, EUT-table and antenna polarization) causing the highest emissions with Peak and Average detector.
- The final levels, frequency, measuring time, bandwidth, turntable position, EUT-table position, antenna polarization, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the pre measurement with marked maximum final measurements and the limit will be stored.

4) Sequence of testing above 18GHz**Setup:**

- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.
- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- Auxiliary equipment and cables were positioned to simulate fixed frequency transmitting conditions.
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- The measurement distance is 1 meter.
- The EUT was set into operation.

Pre measurement:

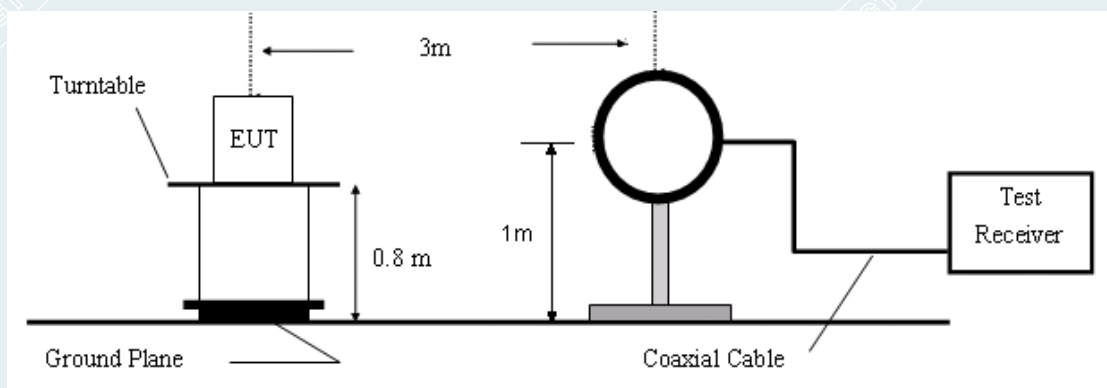
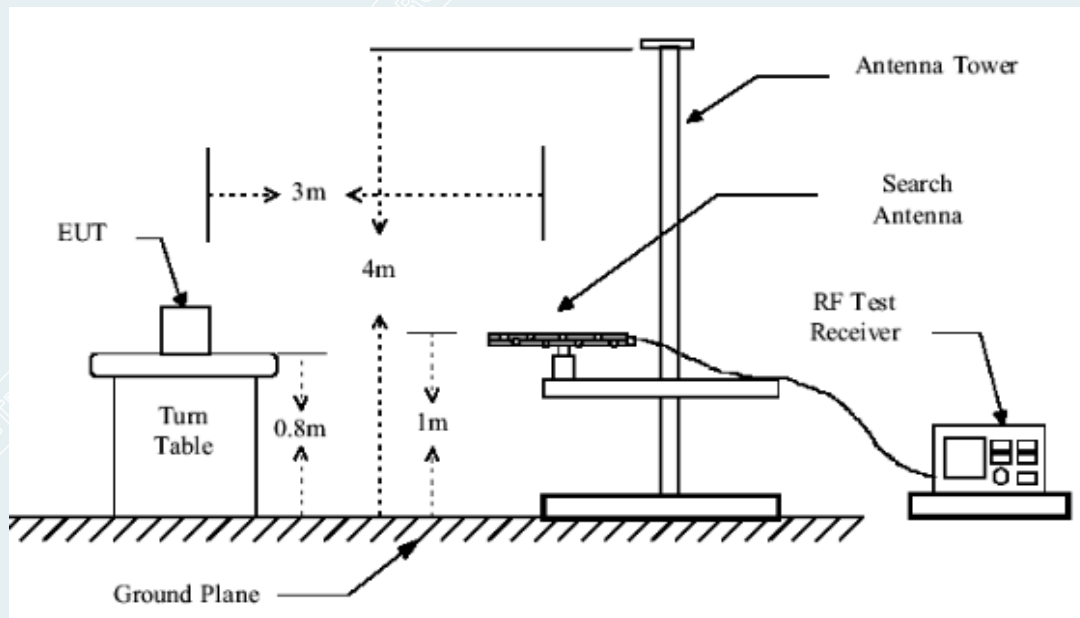
- The turntable rotates from 0 °to 360 °.
- The antenna is polarized vertical and horizontal.
- The antenna height scan range is 1 meter to 4 meter.
- At each turntable position and antenna polarization the analyzer sweeps with peak detection to find the maximum of all emissions.

Final measurement:

- The final measurement will be performed with minimum the six highest peaks.
- According to the maximum antenna and turntable positions of pre measurement the software maximize the peaks by changing turntable rotates from 0 °to 360 °and antenna movement between 1 and 4 meter. This procedure is repeated for both antenna polarizations.
- The final measurement will be done in the position (turntable, EUT-table and antenna polarization) causing the highest emissions with Peak and Average detector.
- The final levels, frequency, measuring time, bandwidth, turntable position, EUT-table position, antenna polarization, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the pre measurement with marked maximum final measurements and the limit will be stored.

NOTE:

- (a). The frequency from 9kHz to 150kHz, Set RBW=300Hz (for Peak&AVG), VBW=300Hz (for Peak&AVG). The frequency from 150kHz to 30MHz, Set RBW=9kHz, VBW=9kHz, (for QP Detector).
- (b). The frequency from 30MHz to 1GHz, Set RBW=120kHz, VBW=300kHz, (for QP Detector).
- (c). The frequency above 1GHz, for Peak detector: Set RBW=1MHz, VBW=3MHz.
- (d). The frequency above 1GHz, for Avg detector: Set RBW=1MHz, if the EUT is configured to transmit with duty cycle $\geq 98\%$, set $VBW \leq RBW/100$ (i.e., 10kHz) but not less than 10 Hz. If the EUT duty cycle is $< 98\%$, set $VBW \geq 1/T$, Where T is defined in section 2.8.

7.3. TEST SETUP**Figure 1. 9kHz to 30MHz radiated emissions test configuration****Figure 2. 30MHz to 1GHz radiated emissions test configuration**

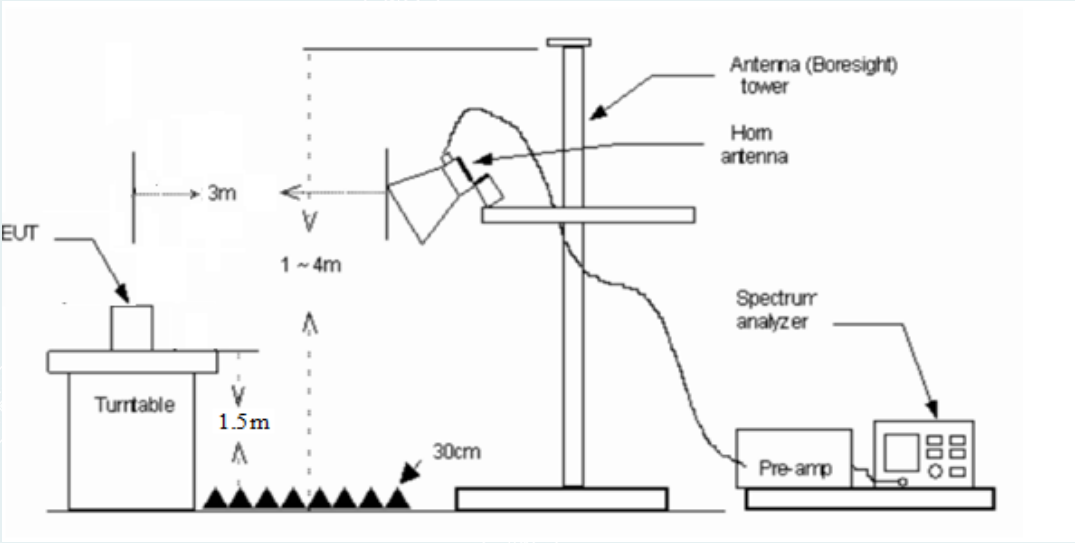


Figure 3. 1GHz to 18GHz radiated emissions test configuration

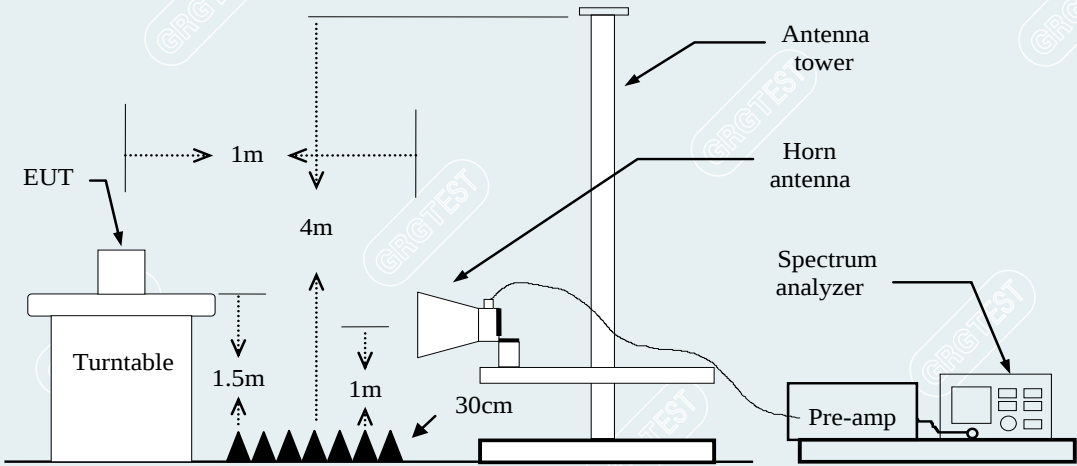


Figure 4. 18GHz to 26.5GHz radiated emissions test configuration

7.4. DATA SAMPLE

30MHz to 1GHz

Suspected Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Height [cm]	Angle [°]	Polarity
xxxx	xxxx	66.85	31.09	-35.76	40.00	8.91	PK	200	351	Horizontal

Final Data List									
NO.	Freq. [MHz]	Factor [dB]	QP Reading [dBμV/m]	Level [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
xxxx	xxxx	-31.57	71.28	39.71	46.00	6.29	100	196	Horizontal

Frequency (MHz)	= Emission frequency in MHz
Reading (dBμV/m)	= Uncorrected Analyzer / Receiver reading
Factor (dB)	= Antenna factor + Cable loss – Amplifier gain
Level (dBμV/m)	= Reading (dBμV/m) + Factor (dB)
Limit (dBμV/m)	= Limit stated in standard
Margin (dB)	= Limit (dBμV/m) – Level (dBμV/m)
Polarity	= Antenna polarization
Peak	= Peak Reading
QP	= Quasi-peak Reading

----- The following blanks -----

1GHz-18GHz

No.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Remark
xxx	xxxx	78.01	55.30	-22.71	74.00	18.70	100	50	Horizontal	Peak
xxx	xxxx	66.37	43.66	-22.71	54.00	10.34	100	50	Horizontal	AVG

Above 18GHz**Suspected Data List**

NO.	Freq. [MHz]	Reading [dBμV/m]	Level for 1m [dBμV/m]	Level for 3m [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Remark
xxx	xxxx	54.49	42.38	32.84	-12.11	74	41.16	100	211	Horizontal	Peak
xxx	xxxx	43.99	31.88	22.34	-12.11	54	31.66	100	211	Horizontal	AVG

Frequency (MHz)

= Emission frequency in MHz

Reading (dBuV/m)

= Uncorrected Analyzer / Receiver reading

Factor (dB)

= Antenna factor + Cable loss – Amplifier gain

Level for 1m (dBuV/m)

= Reading (dBuV/m) + Factor (dB)

Level for 3m (dBuV/m)

= Level for 1m (dBuV/m) + 20*log(1/3)

Limit (dBuV/m)

= Limit stated in standard

Margin (dB)

= Limit (dBuV/m) – Level (dBuV/m)

Polarity

= Antenna polarization

Peak

= Peak Reading

AVG

= Average Reading

----- The following blanks -----

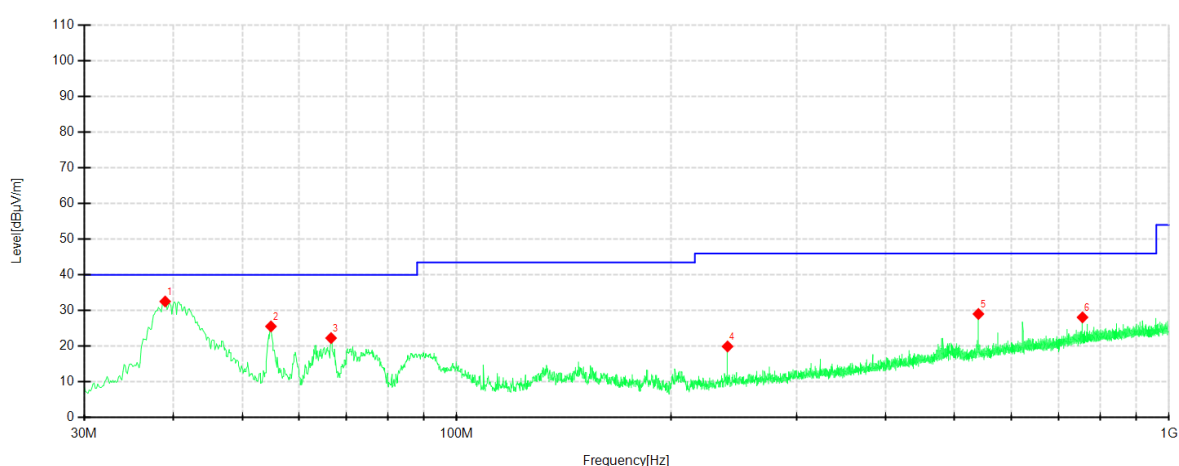
7.5. TEST RESULTS

Pre-scanned in three placement surfaces, Erect, Lateral standing, Handstand. The worst cases mode (Handstand) were recorded in this report.

Below 1GHz

Pre-scan all modes and recorded the worst case results in this report. (BLE_2M_2480MHz)

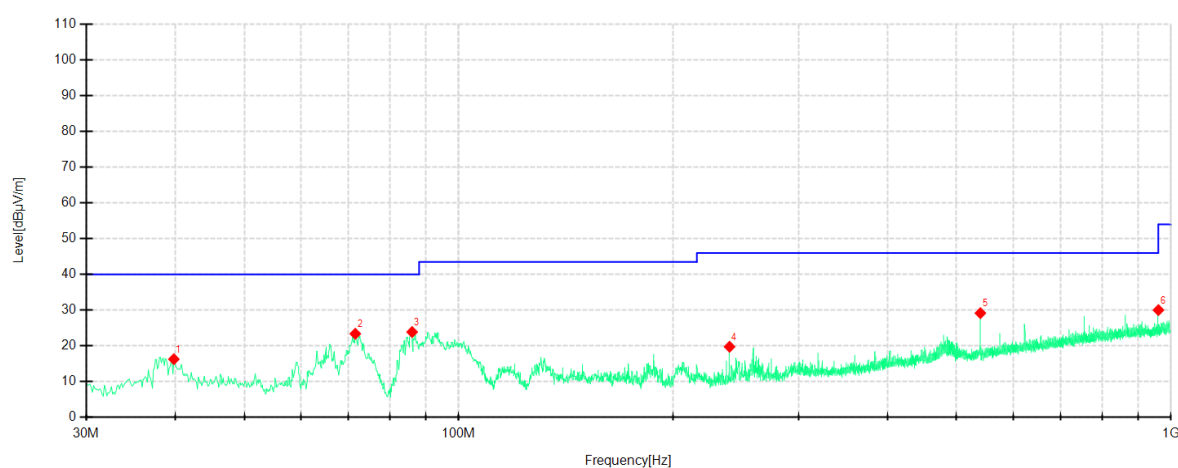
EUT Name	Camera E1	Model	CH-C01E
Environmental Conditions	26.5°C/57%RH	Test Voltage	AC 120V/60Hz
Test Mode	Mode 1	Polarity	Vertical
Tested By	Zhang Zishan	Tested Date	2023-08-01



Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Height [cm]	Angle [°]	Polarity
1	38.9736	61.27	32.55	-28.72	40.00	7.45	PK	100	43	Vertical
2	54.8594	54.34	25.56	-28.78	40.00	14.44	PK	100	10	Vertical
3	66.6221	52.58	22.30	-30.28	40.00	17.70	PK	200	91	Vertical
4	240.0313	49.60	19.95	-29.65	46.00	26.05	PK	100	268	Vertical
5	540.0413	49.66	29.05	-20.61	46.00	16.95	PK	100	256	Vertical
6	756.1358	44.87	28.11	-16.76	46.00	17.89	PK	100	256	Vertical

EUT Name	Camera E1	Model	CH-C01E
Environmental Conditions	26.5°C/57%RH	Test Voltage	AC 120V/60Hz
Test Mode	Mode 1	Polarity	Horizontal
Tested By	Zhang Zishan	Tested Date	2023-08-01



Suspected Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Height [cm]	Angle [°]	Polarity
1	39.8225	44.97	16.30	-28.67	40.00	23.70	PK	200	161	Horizontal
2	71.5939	54.68	23.40	-31.28	40.00	16.60	PK	200	344	Horizontal
3	86.0245	57.16	23.89	-33.27	40.00	16.11	PK	200	344	Horizontal
4	240.0313	49.42	19.77	-29.65	46.00	26.23	PK	100	16	Horizontal
5	540.0413	49.78	29.17	-20.61	46.00	16.83	PK	200	259	Horizontal
6	960.2250	45.03	30.03	-15.00	54.00	23.97	PK	100	59	Horizontal

Remark:

- 1 No emission found between lowest internal used/generated frequency to 30MHz.
- 2 Radiated emissions measured in frequency range from 9kHz to 1GHz were made with an instrument using Quasi-peak detector mode.
- 3 Data of measurement within this frequency range shown “---” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4 The IF bandwidth of Receiver between 30MHz to 1GHz was 120kHz.
- 5 If the margin of the pre test results is greater than 6db, it meets the requirements of quasipeak or average values, and final testing is no longer required.

1GHz-18GHz:

According to C63.10, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement, so AV emission value did not show in below table if the peak value complies with average limit.

Mode: Mode 1

Lowest Frequency (1M_2402MHz)

Environment: 26.5°C/57%RH

Tested By:Zhang Zishan

Voltage: AC 120V/60Hz

Date: 2023-07-31

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1792.6000	56.91	49.34	-7.57	74.00	24.66	100	253	Horizontal
2	3996.0000	55.64	47.56	-8.08	74.00	26.44	100	128	Horizontal
3	4803.0000	53.19	50.86	-2.33	74.00	23.14	200	304	Horizontal
4	8575.5000	41.86	48.37	6.51	74.00	25.63	200	201	Horizontal
5	12150.0000	36.55	50.74	14.19	74.00	23.26	100	35	Horizontal
6	14107.5000	36.56	49.94	13.38	74.00	24.06	100	15	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1792.6260	-7.57	39.38	31.81	54.00	22.19	100	236	Horizontal
2	4803.6260	-2.33	45.13	42.80	54.00	11.20	200	300.3	Horizontal
3	8533.6725	6.51	29.79	36.30	54.00	17.70	110	220.4	Horizontal
4	12196.2400	14.19	24.84	39.03	54.00	14.97	134	272.2	Horizontal
5	14118.7325	13.38	24.27	37.65	54.00	16.35	147	166.6	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1660.8000	51.10	42.65	-8.45	74.00	31.35	200	182	Vertical
2	2657.8000	50.65	47.80	-2.85	74.00	26.20	100	191	Vertical
3	4785.0000	55.62	52.80	-2.82	74.00	21.20	100	303	Vertical
4	5325.0000	48.90	48.89	-0.01	74.00	25.11	100	139	Vertical
5	7987.5000	41.68	47.10	5.42	74.00	26.90	200	261	Vertical
6	12153.0000	35.53	49.48	13.95	74.00	24.52	200	16	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4781.2610	-2.82	37.82	35.00	54.00	19.00	100	274.9	Vertical
2	5313.3640	-0.01	36.67	36.66	54.00	17.34	100	127.5	Vertical
3	12184.1250	13.95	24.99	38.94	54.00	15.06	159	253.9	Vertical

Mode: Mode 1
 Middle Frequency (1M_2440MHz)
 Environment: 26.5°C/57%RH
 Tested By:Zhang Zishan

Voltage: AC 120V/60Hz
 Date: 2023-07-31

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2657.8000	50.14	47.34	-2.80	74.00	26.66	100	57	Horizontal
2	3984.0000	56.90	48.73	-8.17	74.00	25.27	100	117	Horizontal
3	4879.5000	50.24	48.11	-2.13	74.00	25.89	200	283	Horizontal
4	6718.5000	45.75	46.59	0.84	74.00	27.41	200	160	Horizontal
5	12154.5000	35.75	49.80	14.05	74.00	24.20	200	107	Horizontal
6	15667.5000	38.34	50.40	12.06	74.00	23.60	200	89	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3982.3280	-8.17	40.61	32.44	54.00	21.56	100	121.6	Horizontal
2	4879.9235	-2.13	44.16	42.03	54.00	11.97	200	301.3	Horizontal
3	12151.6875	14.05	24.80	38.85	54.00	15.15	118	76	Horizontal
4	15699.0125	12.06	28.40	40.46	54.00	13.54	138	116.2	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2663.6000	50.93	48.12	-2.81	74.00	25.88	100	191	Vertical
2	3984.0000	54.63	46.09	-8.54	74.00	27.91	100	360	Vertical
3	4798.5000	50.41	48.03	-2.38	74.00	25.97	100	312	Vertical
4	5322.0000	48.33	48.32	-0.01	74.00	25.68	100	209	Vertical
5	7192.5000	46.02	49.25	3.23	74.00	24.75	100	138	Vertical
6	11718.0000	37.19	49.78	12.59	74.00	24.22	200	15	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2664.1400	-2.81	38.00	35.19	54.00	18.81	100	218.2	Vertical
2	4780.9305	-2.38	36.77	34.39	54.00	19.61	100	353.1	Vertical
3	5314.6830	-0.01	37.54	37.53	54.00	16.47	101	191.5	Vertical
4	7166.9975	3.23	32.09	35.32	54.00	18.68	194	165.9	Vertical
5	11738.6900	12.59	25.90	38.49	54.00	15.51	186	270.8	Vertical

Mode: Mode 1

Highest Frequency (1M_2480MHz)

Environment: 26.5°C/57%RH

Tested By:Zhang Zishan

Voltage: AC 120V/60Hz

Date: 2023-07-31

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1795.2000	52.72	45.16	-7.56	74.00	28.84	100	262	Horizontal
2	2480.2000	51.02	47.78	-3.24	74.00	26.22	100	271	Horizontal
3	3589.5000	55.06	44.06	-11.00	74.00	29.94	100	172	Horizontal
4	4959.0000	49.45	48.31	-1.14	74.00	25.69	200	211	Horizontal
5	13129.5000	36.32	50.78	14.46	74.00	23.22	200	242	Horizontal
6	15667.5000	38.41	50.47	12.06	74.00	23.53	200	262	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4959.6460	-1.14	40.25	39.11	54.00	14.89	199	238.7	Horizontal
2	13186.1225	14.46	24.47	38.93	54.00	15.07	200	214.2	Horizontal
3	15698.3325	12.06	28.20	40.26	54.00	13.74	144	233.4	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2661.4000	51.01	48.18	-2.83	74.00	25.82	100	220	Vertical
2	3991.5000	53.55	45.01	-8.54	74.00	28.99	100	253	Vertical
3	4794.0000	53.35	50.82	-2.53	74.00	23.18	100	234	Vertical
4	5322.0000	51.07	51.06	-0.01	74.00	22.94	100	130	Vertical
5	7978.5000	43.02	48.55	5.53	74.00	25.45	100	243	Vertical
6	17887.5000	38.52	51.74	13.22	74.00	22.26	100	202	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2661.2840	-2.83	38.03	35.20	54.00	18.80	102	191.1	Vertical
2	4785.8830	-2.53	39.41	36.88	54.00	17.12	100	213	Vertical
3	5319.9200	-0.01	36.95	36.94	54.00	17.06	100	127.2	Vertical
4	7983.5775	5.53	31.03	36.56	54.00	17.44	163	215.2	Vertical
5	17858.2525	13.22	26.62	39.84	54.00	14.16	156	228.7	Vertical

Mode: Mode 1
Lowest Frequency (2M_2402MHz)
Environment: 26.5℃/57%RH
Tested By:Zhang Zishan

Voltage: AC 120V/60Hz
Date: 2023-07-31

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1792.4000	50.73	43.17	-7.56	74.00	30.83	100	251	Horizontal
2	2425.4000	51.55	47.50	-4.05	74.00	26.50	100	160	Horizontal
3	3582.0000	57.18	46.19	-10.99	74.00	27.81	100	171	Horizontal
4	4803.0000	49.50	47.17	-2.33	74.00	26.83	200	303	Horizontal
5	12628.5000	37.74	50.27	12.53	74.00	23.73	200	324	Horizontal
6	15675.0000	38.86	50.55	11.69	74.00	23.45	100	344	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	12644.7675	12.53	25.16	37.69	54.00	16.31	125	318.2	Horizontal
2	15753.2650	11.69	28.59	40.28	54.00	13.72	174	118.6	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1195.8000	54.54	45.44	-9.10	74.00	28.56	200	223	Vertical
2	2658.4000	50.69	47.85	-2.84	74.00	26.15	100	181	Vertical
3	3582.0000	56.56	45.33	-11.23	74.00	28.67	100	220	Vertical
4	4780.5000	54.21	51.24	-2.97	74.00	22.76	100	251	Vertical
5	5998.5000	49.68	48.11	-1.57	74.00	25.89	100	251	Vertical
6	11703.0000	36.61	49.68	13.07	74.00	24.32	100	87	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4788.3865	-2.97	36.93	33.96	54.00	20.04	100	224.1	Vertical
2	5981.8325	-1.57	36.56	34.99	54.00	19.01	100	252.8	Vertical
3	11760.0750	13.07	25.52	38.59	54.00	15.41	127	114.8	Vertical

Mode: Mode 1
Middle Frequency (2M_2440MHz)
Environment: 26.5°C/57%RH
Tested By:Zhang Zishan

Voltage: AC 120V/60Hz
Date: 2023-07-31

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1659.0000	51.87	44.18	-7.69	74.00	29.82	100	119	Horizontal
2	2400.8000	50.88	46.71	-4.17	74.00	27.29	100	333	Horizontal
3	3600.0000	54.08	43.07	-11.01	74.00	30.93	100	179	Horizontal
4	4881.0000	49.40	47.28	-2.12	74.00	26.72	200	293	Horizontal
5	12151.5000	35.87	50.01	14.14	74.00	23.99	100	0	Horizontal
6	15669.0000	37.85	49.84	11.99	74.00	24.16	200	198	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	12105.6025	14.14	24.66	38.80	54.00	15.20	100	202.4	Horizontal
2	15678.9750	11.99	28.38	40.37	54.00	13.63	125	203.3	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2655.0000	50.50	47.63	-2.87	74.00	26.37	100	190	Vertical
2	3996.0000	56.65	48.10	-8.55	74.00	25.90	100	221	Vertical
3	4779.0000	50.63	47.61	-3.02	74.00	26.39	100	0	Vertical
4	5320.5000	51.33	51.32	-0.01	74.00	22.68	100	128	Vertical
5	7192.5000	45.35	48.58	3.23	74.00	25.42	100	35	Vertical
6	12147.0000	35.82	49.82	14.00	74.00	24.18	100	88	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3989.0600	-8.55	42.57	34.02	54.00	19.98	100	247.3	Vertical
2	5323.5795	-0.01	36.68	36.67	54.00	17.33	101	124.3	Vertical
3	7185.0075	3.23	32.51	35.74	54.00	18.26	101	263.9	Vertical
4	12158.0750	14.00	24.68	38.68	54.00	15.32	101	93.1	Vertical

Mode: Mode 1

Highest Frequency (2M_2480MHz)

Environment: 26.5°C/57%RH

Tested By:Zhang Zishan

Voltage: AC 120V/60Hz

Date: 2023-07-31

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2426.2000	50.81	46.77	-4.04	74.00	27.23	200	281	Horizontal
2	3988.5000	52.56	44.42	-8.14	74.00	29.58	100	159	Horizontal
3	5040.0000	46.11	46.75	0.64	74.00	27.25	100	169	Horizontal
4	8569.5000	40.69	47.23	6.54	74.00	26.77	100	3	Horizontal
5	12142.5000	35.31	49.38	14.07	74.00	24.62	100	231	Horizontal
6	15658.5000	37.71	50.23	12.52	74.00	23.77	100	188	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	12153.0475	14.07	24.80	38.87	54.00	15.13	100	275.8	Horizontal
2	15688.8675	12.52	28.30	40.82	54.00	13.18	141	208.2	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2451.8000	50.39	47.07	-3.32	74.00	26.93	100	125	Vertical
2	2665.2000	49.89	47.08	-2.81	74.00	26.92	100	23	Vertical
3	4791.0000	48.83	46.21	-2.62	74.00	27.79	200	24	Vertical
4	5032.5000	46.48	46.96	0.48	74.00	27.04	200	344	Vertical
5	7162.5000	43.56	46.65	3.09	74.00	27.35	200	293	Vertical
6	12799.5000	36.36	50.01	13.65	74.00	23.99	200	118	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	12796.5325	13.65	24.79	38.44	54.00	15.56	180	144.4	Vertical

Remark:

- 1 Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- 2 Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3 Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4 Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.

18GHz to 26.5GHz

According to C63.10, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement, so AV emission value did not show in below table if the peak value complies with average limit.

Only the worst mode and channel were recorded in this report. (BLE_2M 2480MHz)

Mode: Mode 1

Highest Frequency (2M_2480MHz)

Environment: 27.5°C/57%RH

Tested By: Zhang Zishan

Voltage: AC 120V/60Hz

Date: 2023-08-07

Suspected Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Level for 1m [dBμV/m]	Level for 3m [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	18371.4500	47.62	29.80	20.26	-17.82	74	53.74	100	28	Horizontal
2	19877.6500	47.63	31.03	21.49	-16.60	74	52.51	100	17	Horizontal
3	22975.4750	44.67	29.94	20.40	-14.73	74	53.60	200	284	Horizontal
4	24003.5500	45.49	31.26	21.72	-14.23	74	52.28	100	174	Horizontal
5	24899.0250	45.48	31.59	22.05	-13.89	74	51.95	200	259	Horizontal
6	26412.4500	45.20	31.29	21.75	-13.91	74	52.25	100	296	Horizontal

Suspected Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Level for 1m [dBμV/m]	Level for 3m [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	18227.8000	48.39	30.28	20.74	-18.11	74	53.26	100	87	Vertical
2	19865.7500	47.25	30.39	20.85	-16.86	74	53.15	200	320	Vertical
3	21656.2750	44.96	29.05	19.51	-15.91	74	54.49	100	160	Vertical
4	22939.7750	44.78	29.94	20.40	-14.84	74	53.60	100	173	Vertical
5	23908.3500	45.46	30.85	21.31	-14.61	74	52.69	100	343	Vertical
6	25403.5000	46.15	32.05	22.51	-14.10	74	51.49	200	184	Vertical

Remark:

- 1 Measuring frequencies from 18GHz to 26.5GHz.
- 2 Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 3 Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4 Above 18G test distance is 1m, so the Level for 3m= Level for 1m + 20*log(1/3).

8. 6dB BANDWIDTH

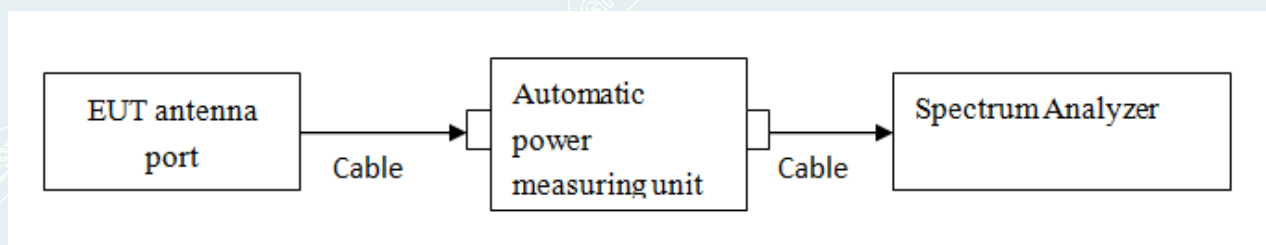
8.1. LIMITS

Systems using digital modulation techniques may operate in the 902–928MHz, 2400–2483.5MHz, and 5725–5850MHz bands. The minimum 6dB bandwidth shall be at least 500kHz.

8.2. TEST PROCEDURES

- 1) Remove the antenna from the EUT, and then connect a low loss RF cable from antenna port to the spectrum analyzer.
- 2) Set resolution bandwidth (RBW) = 100kHz. Set the video bandwidth (VBW) $\geq 3 \times$ RBW. Detector = Peak. Trace mode = max hold. Sweep = auto couple. Allow the trace to stabilize, record 6dB bandwidth value.
- 3) Repeat above procedures until all frequencies measured were complete.

8.3. TEST SETUP



8.4. TEST RESULTS

Environment: 24.2°C/60%RH
 Tested By: Huang Tianmei

Voltage: AC 120V/60Hz
 Date: 2023-07-26

BLE_1M

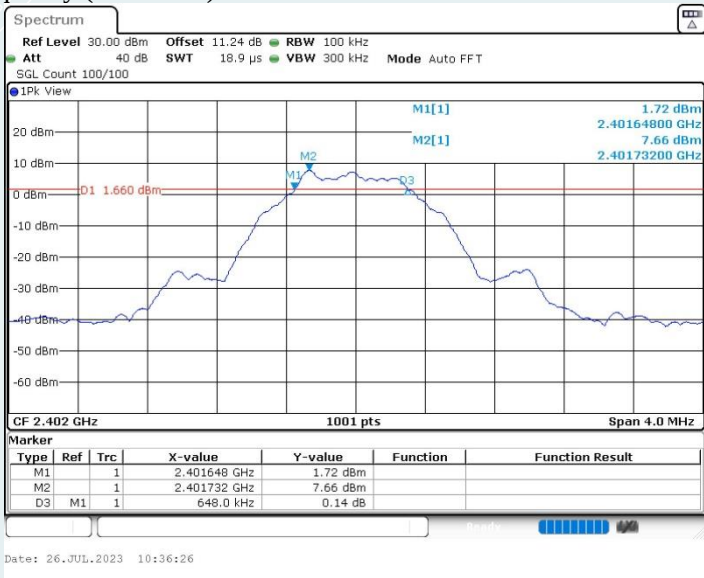
Channel	Frequency (MHz)	Bandwidth (kHz)	Limit (kHz)	Test Result
Lowest	2402	648	≥ 500	PASS
Middle	2440	676		PASS
Highest	2480	640		PASS

BLE_2M

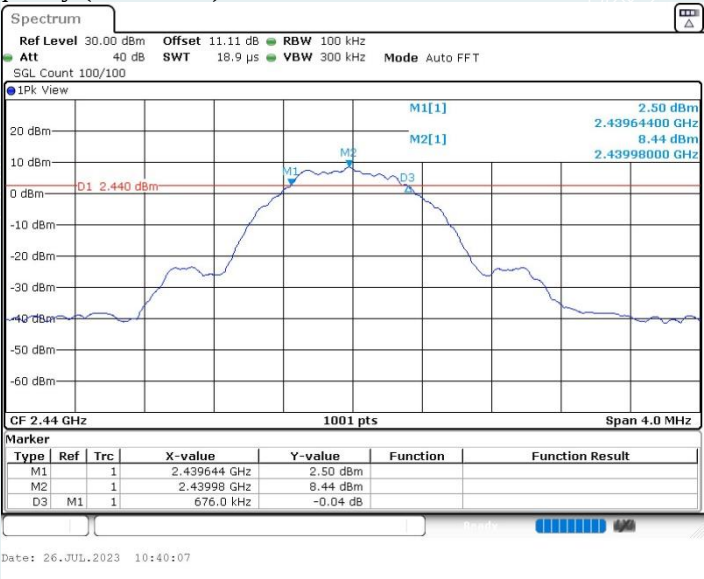
Channel	Frequency (MHz)	Bandwidth (kHz)	Limit (kHz)	Test Result
Lowest	2402	1180	≥ 500	PASS
Middle	2440	1132		PASS
Highest	2480	1340		PASS

BLE_1M

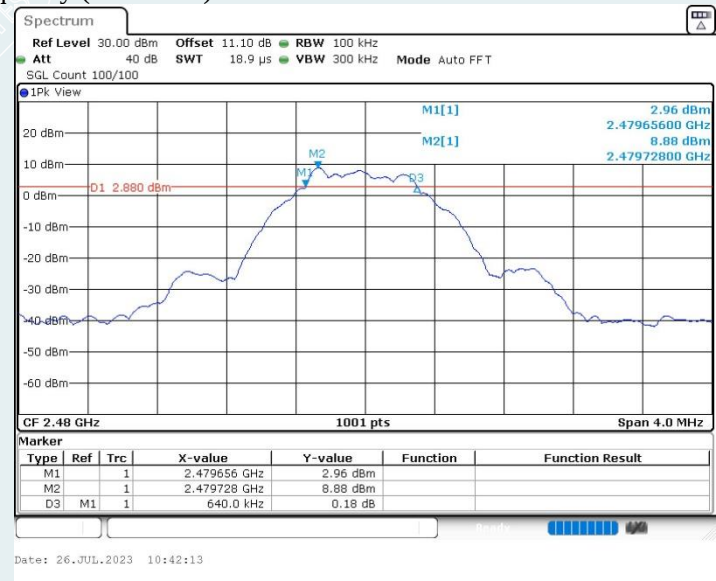
Lowest Frequency (2402MHz)



Middle Frequency (2440 MHz)

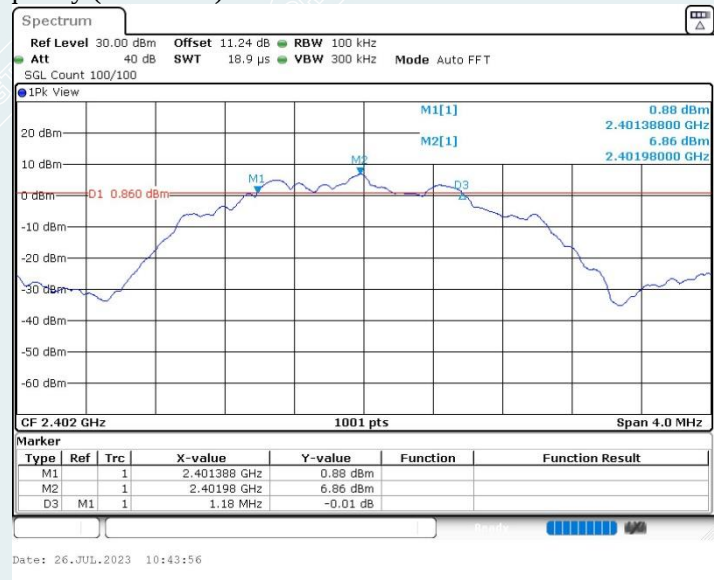


Highest Frequency (2480MHz)

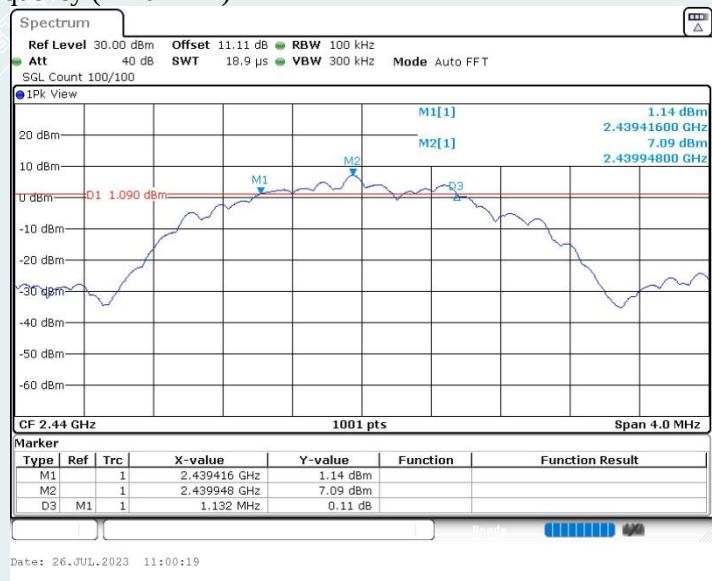


BLE_2M

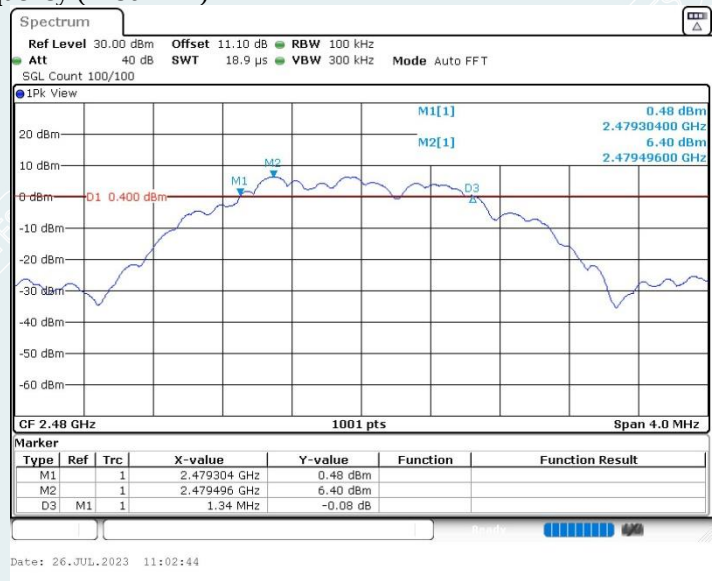
Lowest Frequency (2402MHz)



Middle Frequency (2440 MHz)



Highest Frequency (2480MHz)



----- The following blanks -----

9. MAXIMUM PEAK OUTPUT POWER

9.1. LIMITS

The maximum Peak output power measurement is 1W

9.2. TEST PROCEDURES

- 1) RF output of EUT was connected to the broadband peak RF power meter by RF cable. The path loss was compensated to the results for each measurement.
- 2) Set to the maximum power setting and enable the EUT transmit continuously.
- 3) Measure the conducted output power and record the results in the test report.

9.3. TEST SETUP



9.4. TEST RESULTS

Environment: 24.2°C/60%RH

Tested By: Huang Tianmei

Voltage: AC 120V/60Hz

Date: 2023-07-26

BLE_1M

Channel	Frequency (MHz)	Measured Channel Power (dBm)	Limit	Peak/Average	Result
Lowest	2402	8.15	1W (30dBm)	Peak	Pass
Middle	2440	8.92			Pass
Highest	2480	9.18			Pass

BLE_2M

Channel	Frequency (MHz)	Measured Channel Power (dBm)	Limit	Peak/Average	Result
Lowest	2402	8.16	1W (30dBm)	Peak	Pass
Middle	2440	8.96			Pass
Highest	2480	9.21			Pass

10. POWER SPECTRAL DENSITY

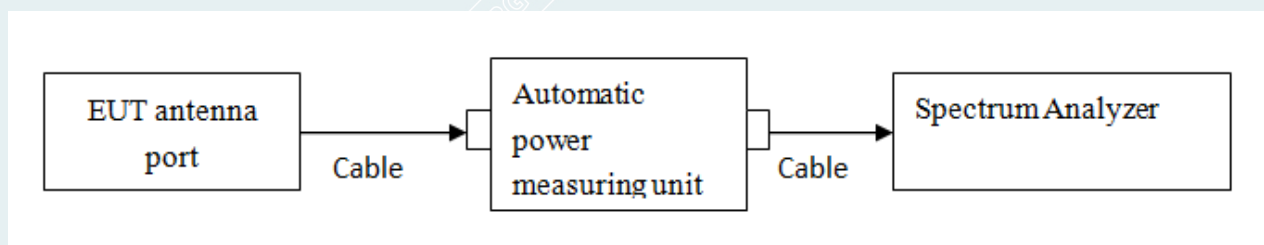
10.1. LIMITS

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

10.2. TEST PROCEDURES

- 1) Remove the antenna from the EUT, and then connect a low loss RF cable from antenna port to the spectrum analyzer.
- 2) Position the EUT was set without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument 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.
- 3) Set the analyzer span to 1.5 times the DTS bandwidth. Set the RBW to $3\text{ kHz} \leq \text{RBW} \leq 100\text{ kHz}$. Set the VBW $\geq [3 \times \text{RBW}]$. Detector = peak. Sweep time = auto couple. Trace mode = max hold. Allow trace to fully stabilize. Use the peak marker function to determine the maximum amplitude level within the RBW. If measured value exceeds requirement, then reduce RBW (but no less than 3kHz) and repeat.
- 4) Repeat above procedures until all frequencies measured were complete.

10.3. TEST SETUP



----- The following blanks -----

10.4. TEST RESULTS

Environment: 24.2℃/60%RH
Tested By: Huang Tianmei

Voltage: AC 120V/60Hz
Date: 2023-07-26

BLE_1M

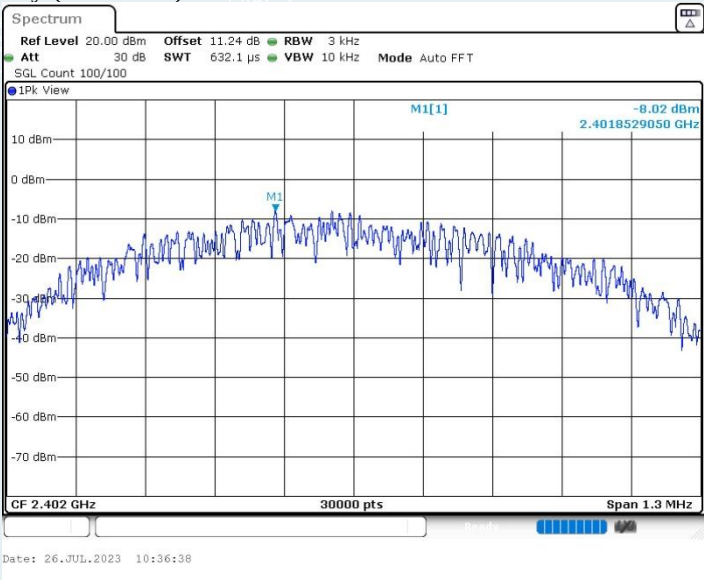
Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Test Result
Lowest	2402	-8.02	≤8.00	PASS
Middle	2440	-6.78		PASS
Highest	2480	-6.76		PASS

BLE_2M

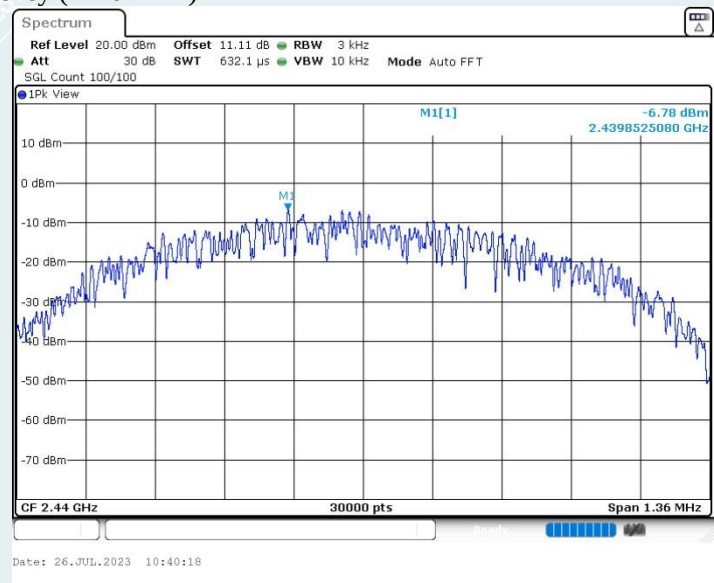
Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Test Result
Lowest	2402	-10.54	≤8.00	PASS
Middle	2440	-9.36		PASS
Highest	2480	-9.31		PASS

BLE_1M

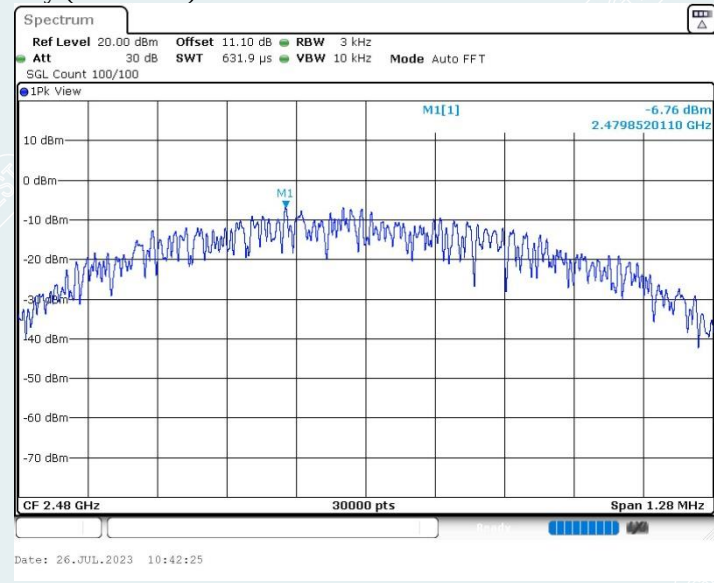
Lowest Frequency (2402MHz)



Middle Frequency (2440 MHz)

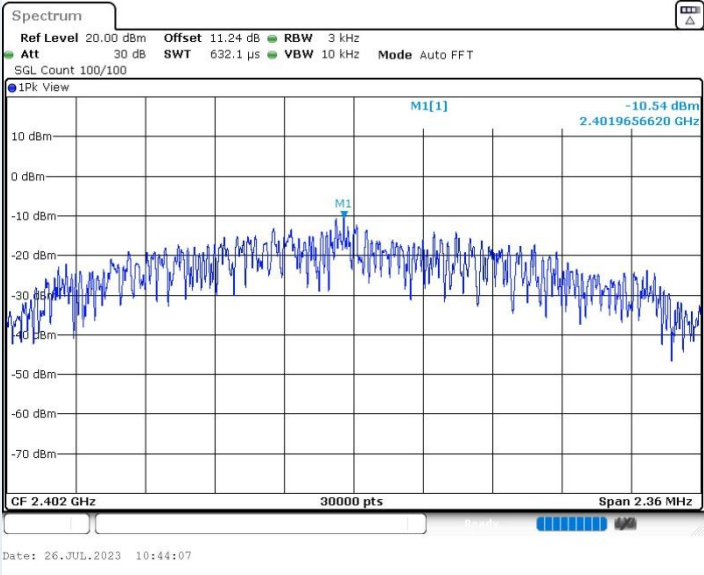


Highest Frequency (2480MHz)

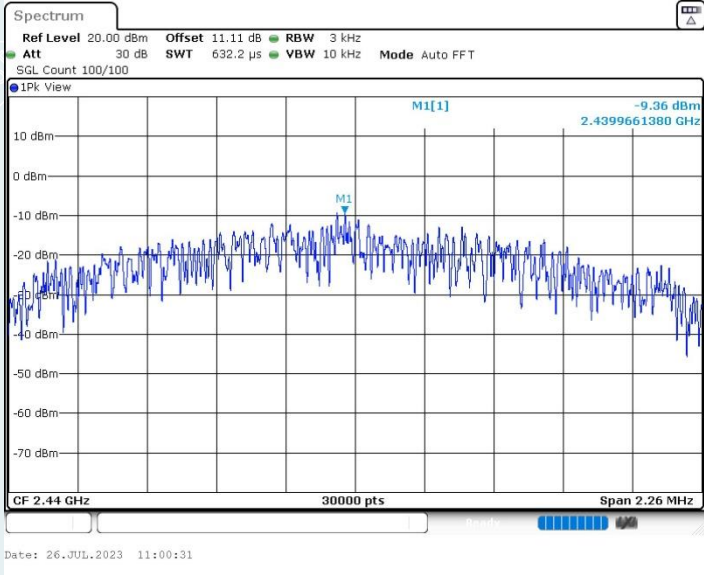


BLE_2M

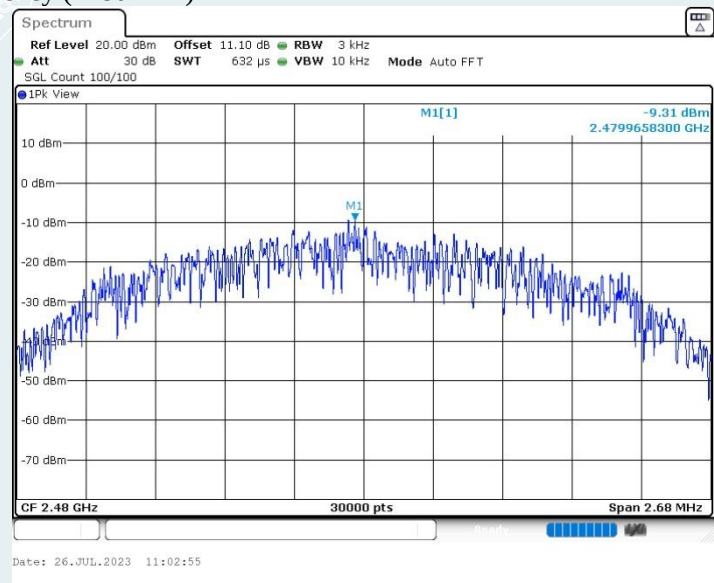
Lowest Frequency (2402MHz)



Middle Frequency (2440 MHz)



Highest Frequency (2480MHz)



----- The following blanks -----

11. CONDUCTED BAND EDGES AND SPURIOUS EMISSIONS

11.1. LIMITS

In any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30dB instead of 20dB.

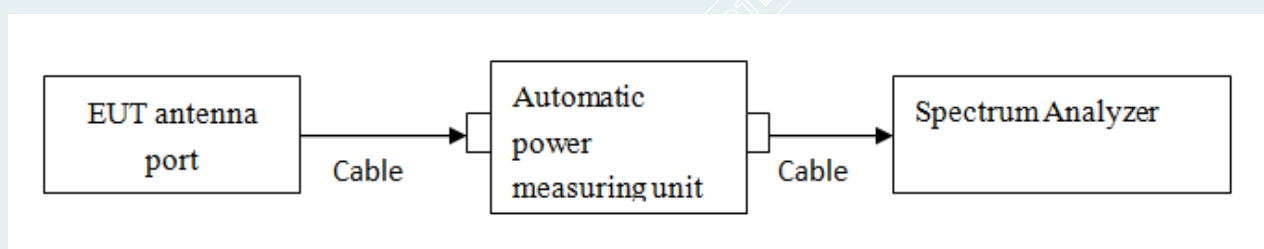
11.2. TEST PROCEDURES

Test procedures follow KDB 558074 D01 15.247 Measurement Guidance v05r02.

Remove the antenna from the EUT and then connect a low attenuation cable from the antenna port to the spectrum.

- 1) Remove the antenna from the EUT and then connect a low attenuation cable from the antenna port to the spectrum.
- 2) Set the spectrum analyzer: RBW =100kHz; VBW =300kHz, Frequency range = 30MHz to 26.5GHz; Sweep = auto; Detector Function = Peak. Trace = Max, hold.
- 3) Measure and record the results in the test report.
- 4) The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

11.3. TEST SETUP



11.4. TEST RESULTS

Environment: 24.2°C/60%RH
Tested By: Huang Tianmei

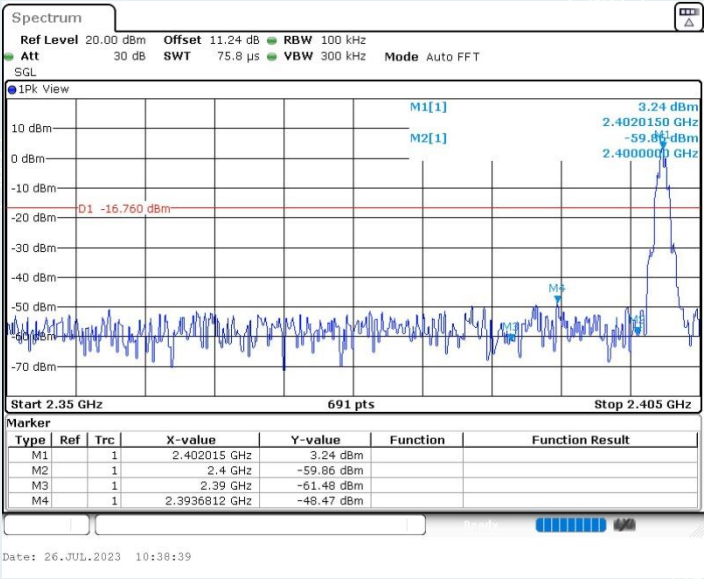
VoltageAC 120V/60Hz
Date: 2023-07-26

Band edge measurements

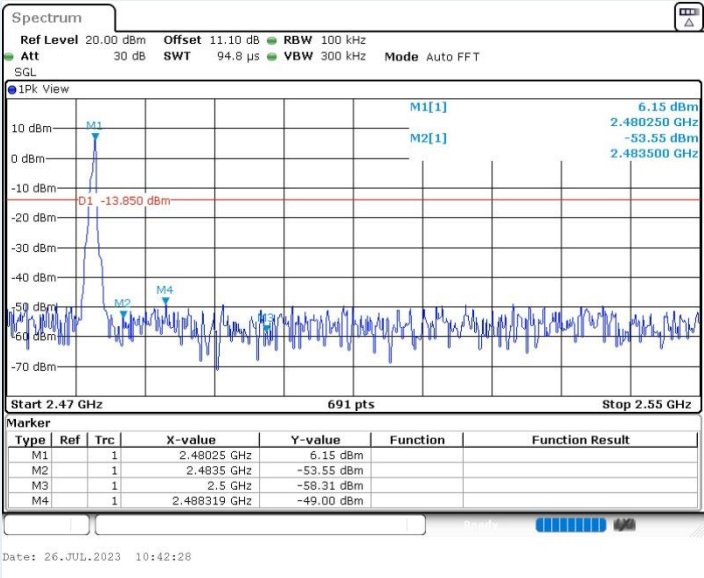
Test Mode	Antenna	ChName	Freq[MHz]	Ref Level[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	3.24	-48.47	≤-16.76	PASS
		High	2480	6.15	-49.00	≤-13.85	PASS
BLE_2M	Ant1	Low	2402	1.01	-35.79	≤-18.99	PASS
		High	2480	3.39	-47.11	≤-16.61	PASS

BLE_1M

Lowest Frequency (2402MHz)
2.35GHz-2.405GHz

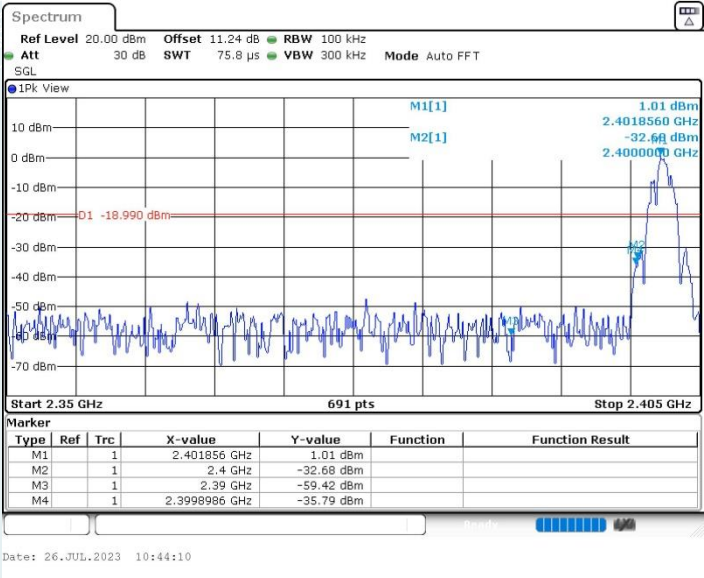


Highest Frequency (2480MHz)
2.47GHz-2.55GHz

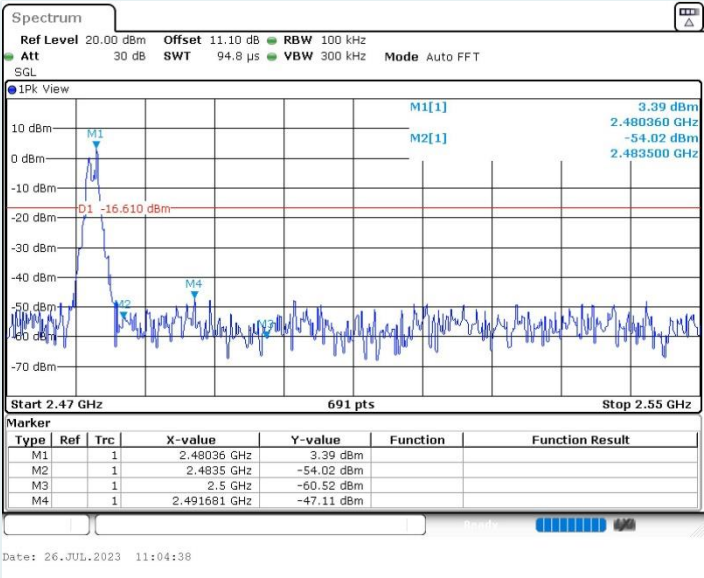


BLE_2M

Lowest Frequency (2402MHz)
2.35GHz-2.405GHz



Highest Frequency (2480MHz)
2.47GHz-2.55GHz



----- The following blanks -----

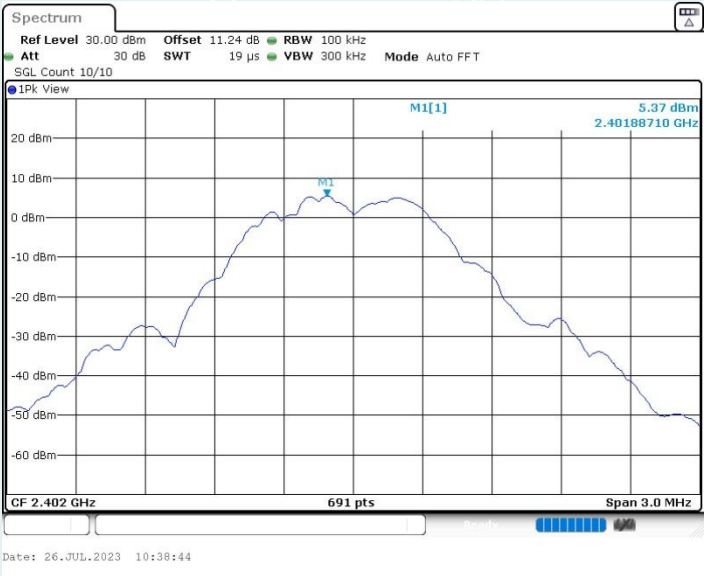
Conducted Spurious Emission

Test Mode	Antenna	Freq[MHz]	Freq Range [MHz]	Ref Level [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	5.37	5.37	---	PASS
			30~1000	5.37	-55.11	≤-14.63	PASS
			1000~26500	5.37	-41.47	≤-14.63	PASS
		2440	Reference	7.32	7.32	---	PASS
			30~1000	7.32	-55.49	≤-12.68	PASS
			1000~26500	7.32	-41.06	≤-12.68	PASS
		2480	Reference	6.25	6.25	---	PASS
			30~1000	6.25	-55.82	≤-13.75	PASS
			1000~26500	6.25	-41.83	≤-13.75	PASS
BLE_2M	Ant1	2402	Reference	2.70	2.70	---	PASS
			30~1000	2.70	-55.59	≤-17.3	PASS
			1000~26500	2.70	-41.42	≤-17.3	PASS
		2440	Reference	7.85	7.85	---	PASS
			30~1000	7.85	-55.43	≤-12.15	PASS
			1000~26500	7.85	-41.79	≤-12.15	PASS
		2480	Reference	4.10	4.10	---	PASS
			30~1000	4.10	-56.32	≤-15.9	PASS
			1000~26500	4.10	-41.81	≤-15.9	PASS

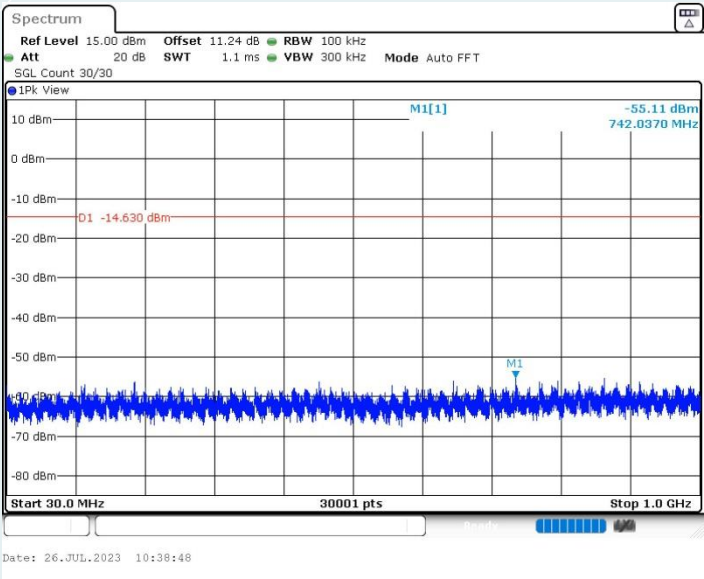
BLE_1M

Lowest Frequency (2402MHz)

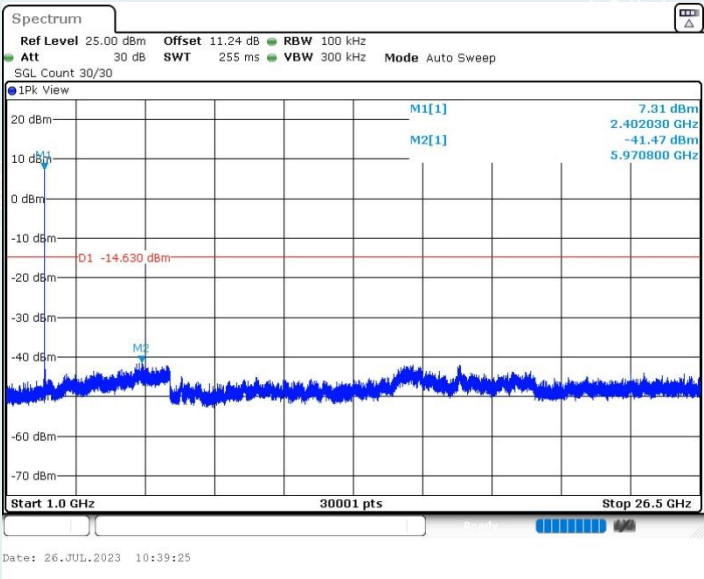
BLE_1M_Ant1_2402MHz_0~Reference



BLE_1M_Ant1_2402MHz_30~1000MHz



BLE_1M_Ant1_2402MHz_1000~26500MHz

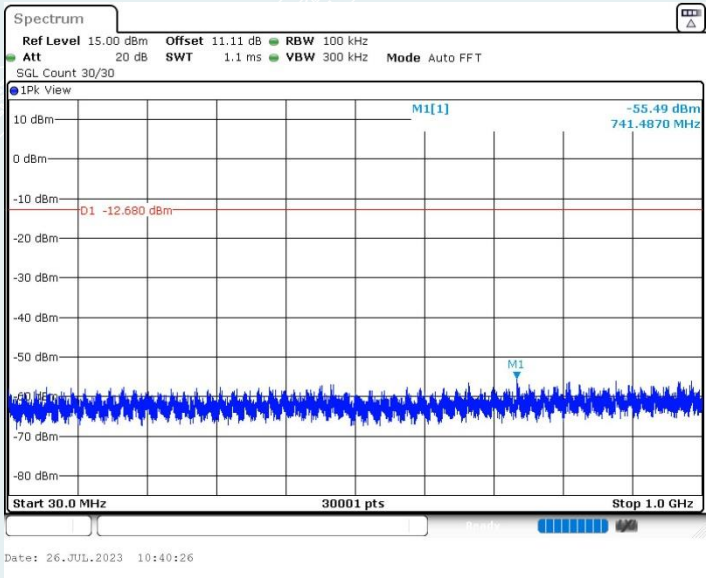


Middle Frequency (2440MHz)

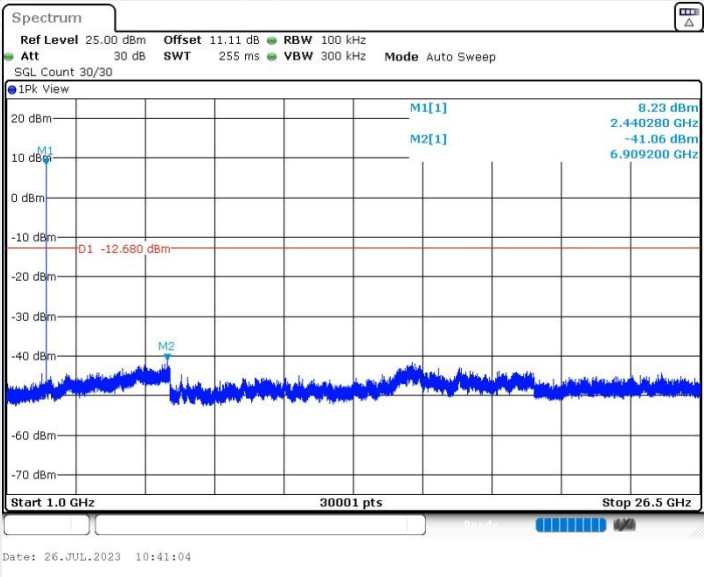
BLE_1M_Ant1_2440MHz_0~Reference



BLE_1M_Ant1_2440MHz_30~1000MHz

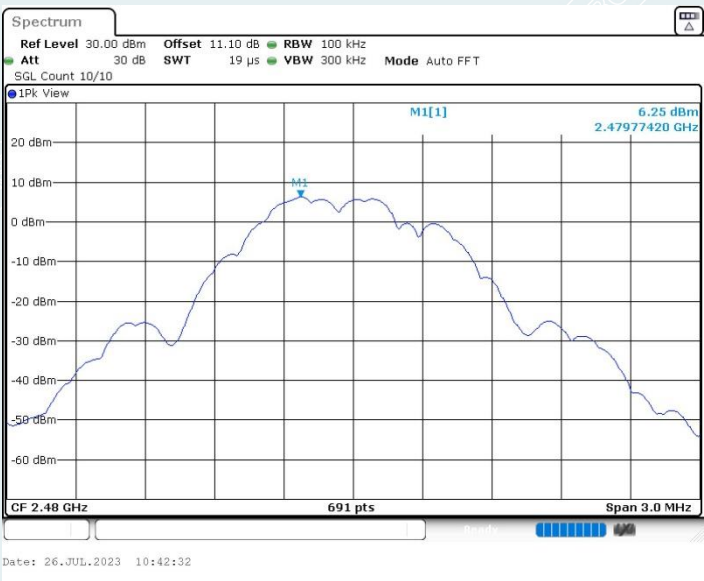


BLE_1M_Ant1_2440MHz_1000~26500MHz

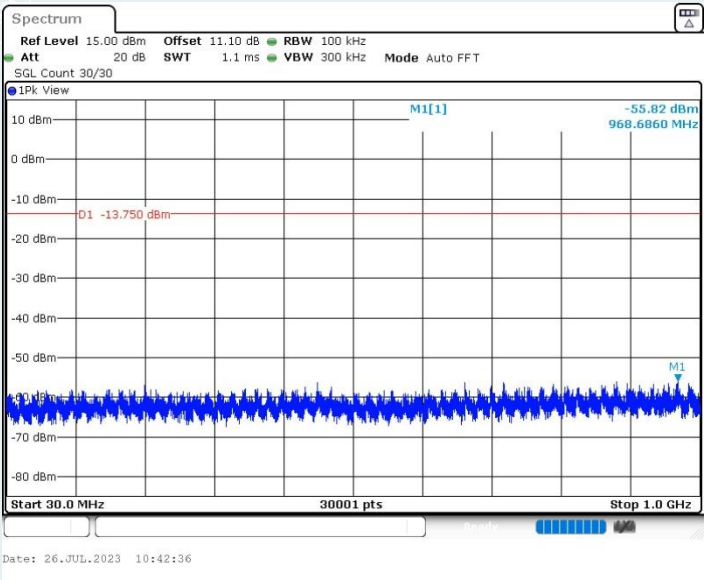


Highest Frequency (2480MHz)

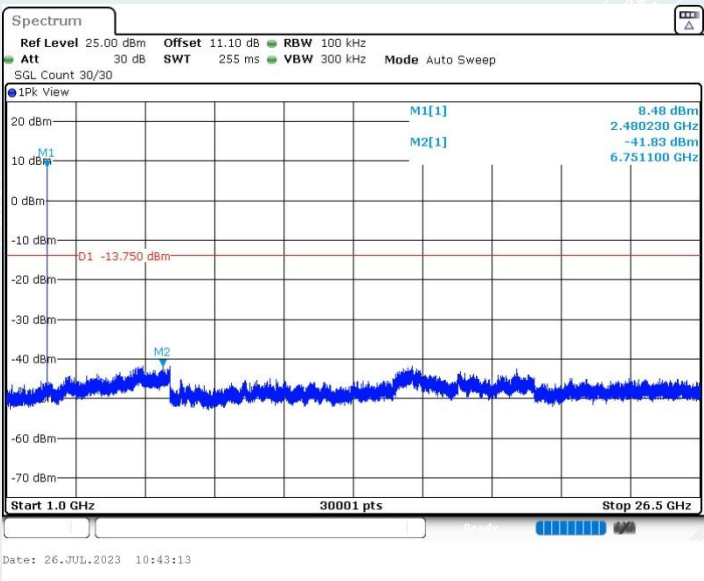
BLE_1M_Ant1_2480MHz_0~Reference



BLE_1M_Ant1_2480MHz_30~1000MHz



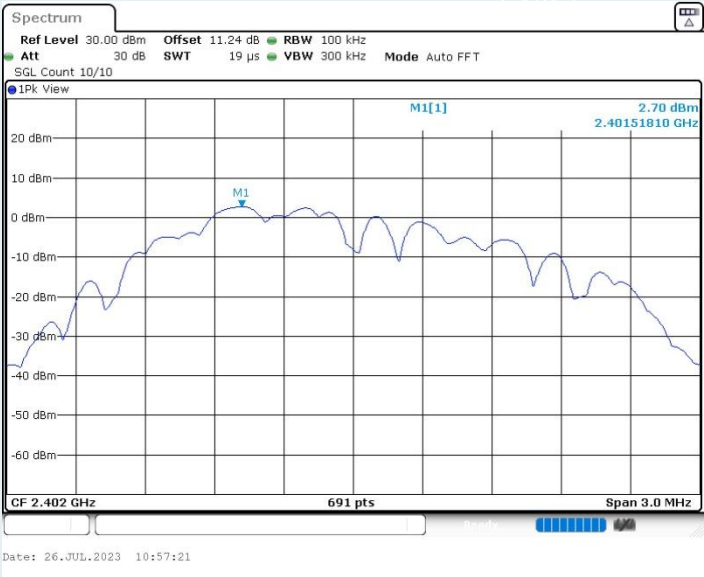
BLE_1M_Ant1_2480MHz_1000~26500MHz



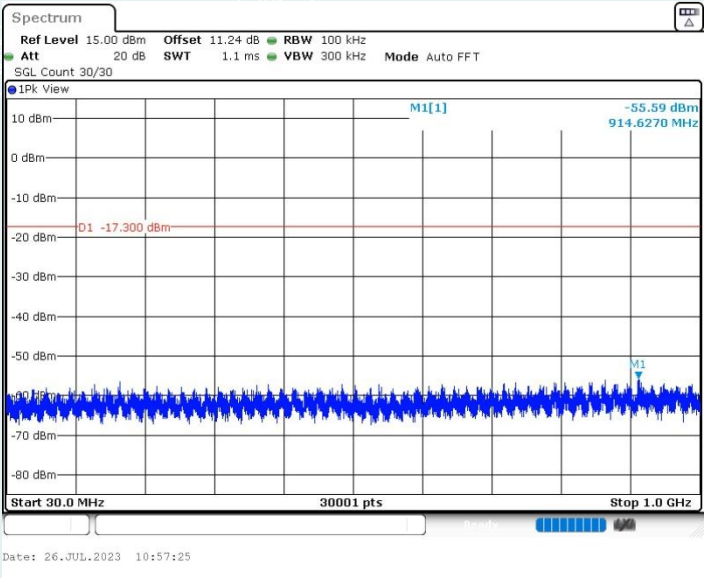
BLE_2M

Lowest Frequency (2402MHz)

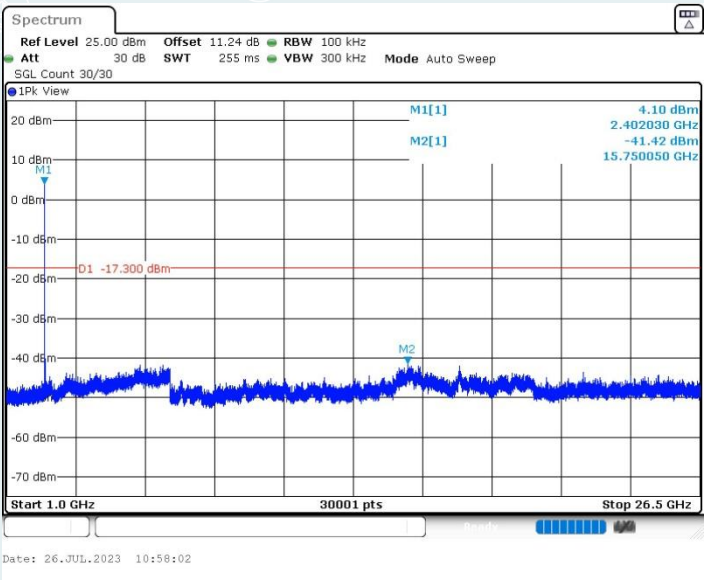
BLE_2M_Ant1_2402MHz_0~Reference



BLE_2M_Ant1_2402MHz_30~1000MHz

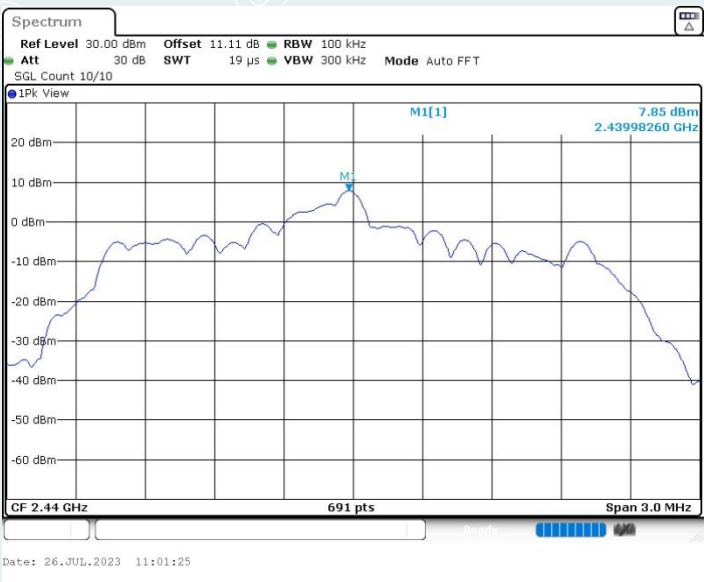


BLE_2M_Ant1_2402MHz_1000~26500MHz

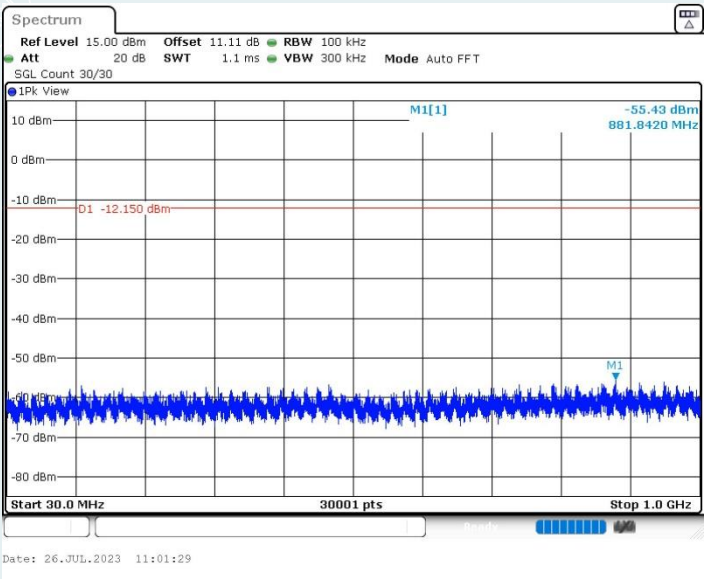


Middle Frequency (2440MHz)

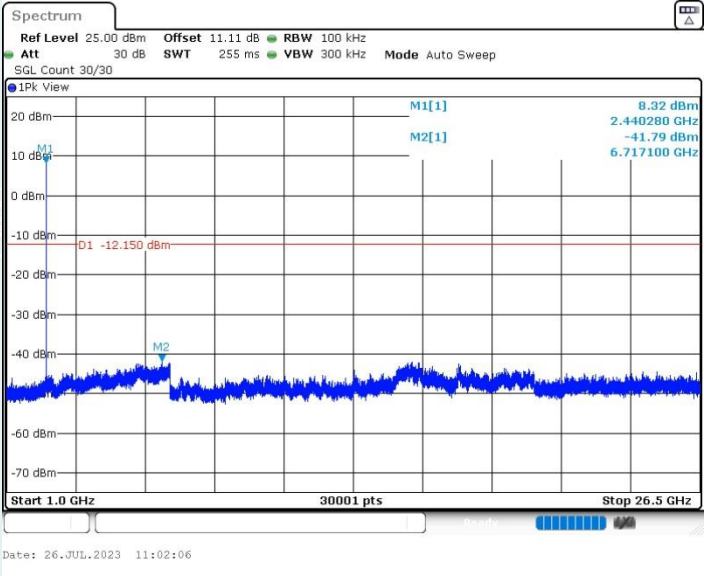
BLE_2M_Ant1_2440MHz_0~Reference



BLE_2M_Ant1_2440MHz_30~1000MHz

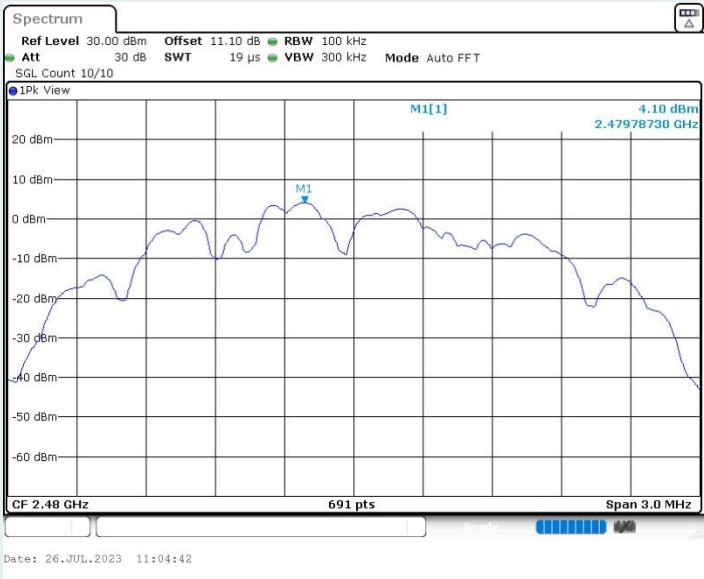


BLE_2M_Ant1_2440MHz_1000~26500MHz

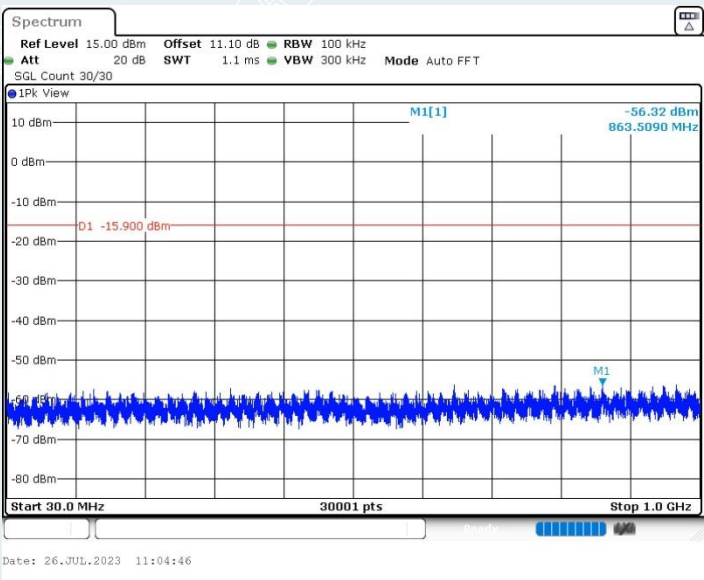


Highest Frequency (2480MHz)

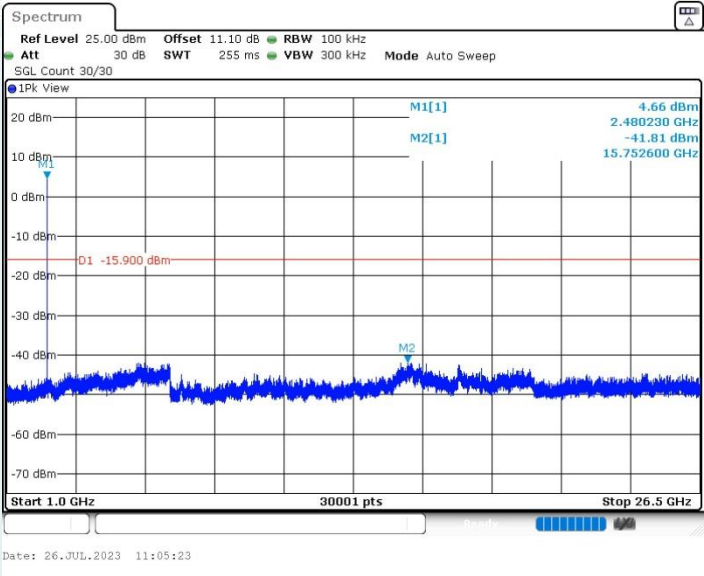
BLE_2M_Ant1_2480MHz_0~Reference



BLE_2M_Ant1_2480MHz_30~1000MHz



BLE_2M_Ant1_2480MHz_1000~26500MHz



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12. RESTRICTED BANDS OF OPERATION

12.1.LIMITS

Section 15.247(d) In addition, Radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	
13.36 - 13.41			

Frequency (MHz)	Quasi-peak(μ V/m)	Measurement distance(m)	Quasi-peak(dB μ V/m)@distance 3m
0.009-0.490	2400/F(kHz)	300	128.5~93.8
0.490-1.705	24000/F(kHz)	30	73.8~63
1.705-30.0	30	30	69.5
30 ~ 88	100	3	40
88~216	150	3	43.5
216 ~ 960	200	3	46
Above 960	500	3	54

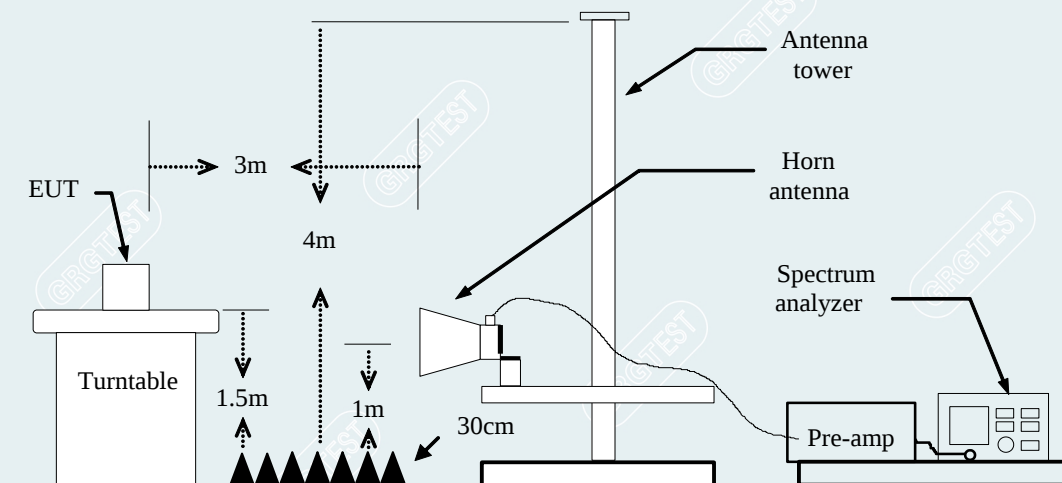
12.2.TEST PROCEDURES

Test procedures follow KDB 558074 D01 15.247 Meas Guidance v05r02.

- 1) The EUT is placed on a turntable, which is 1.5m above the ground plane.
- 2) The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 3) EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
- 4) Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:
 - a) PEAK: RBW=1MHz / VBW=1MHz / Sweep=AUTO.
 - b) AVERAGE: RBW=1MHz / VBW=1/T / Sweep=AUTO.

If the EUT is configured to transmit with duty cycle $\geq 98\%$, set $VBW \leq RBW/100$ (i.e., 10kHz) but not less than 10 Hz. If the EUT duty cycle is $< 98\%$, set $VBW \geq 1/T$, Where T is defined in section 2.8.
- 5) Repeat the procedures until all the PEAK and AVERAGE versus polarization are measured.

12.3.TEST SETUP



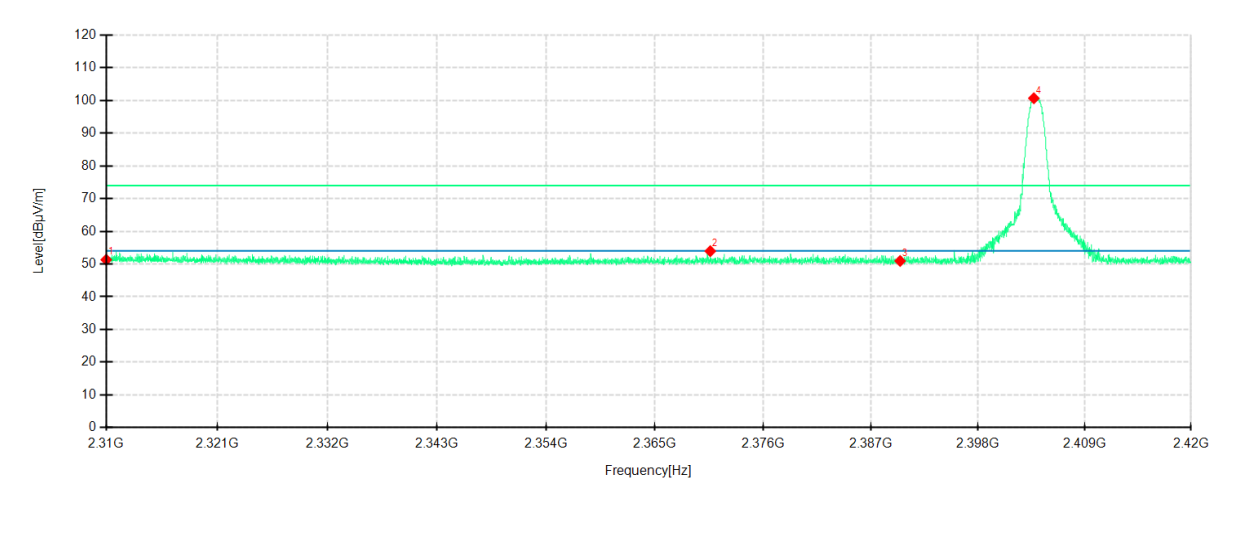
12.4.TEST RESULTS

Pre-scanned in three placement surfaces, Erect, Lateral standing, Handstand.The worst cases mode (Handstand) were recorded in this report.

Equipment:	Camera E1	Test Date	2023-08-03
Model No.:	CH-C01E	Test Engineer:	Chen Xiacong
Test Voltage:	AC 120V/60Hz	Environmental Conditions	22.5℃/47%RH

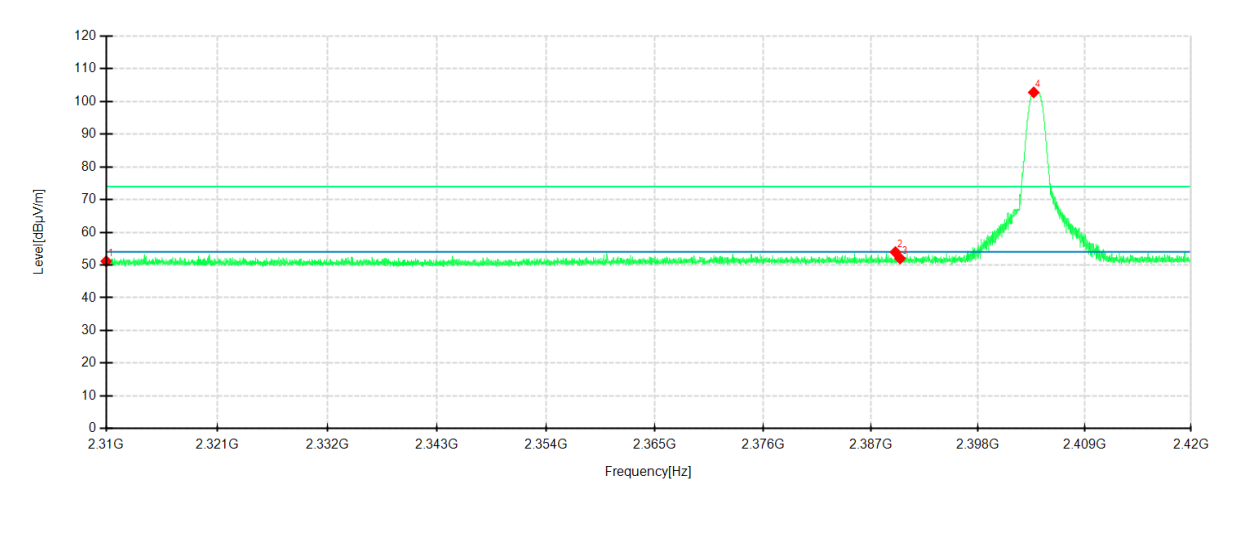
BLE 1M
Lowest Frequency
Frequency 2402MHz
Detector mode: Peak

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical



No.	Frequency MHz	Reading dB μ V/m	Level dB μ V/m	Factor dB	Limit dB μ V/m	Margin dB	Height cm	Angle °	Pole	Remark
1	2310.0000	45.72	51.31	5.59	74.00	22.69	200	301	Horizontal	/
2	2370.6238	49.30	53.94	4.64	74.00	20.06	200	233	Horizontal	/
3	2390.0000	46.14	50.94	4.80	74.00	23.06	100	205	Horizontal	/
4	2403.7475	95.77	100.66	4.89	74.00	-26.66	200	213	Horizontal	No limit
1	2310.0000	46.26	51.15	4.89	74.00	22.85	200	89	Vertical	/
2	2389.5163	48.73	53.94	5.21	74.00	20.06	100	332	Vertical	/
3	2390.0000	46.79	52.01	5.22	74.00	21.99	100	124	Vertical	/
4	2403.7338	97.37	102.77	5.40	74.00	-28.77	100	253	Vertical	No limit

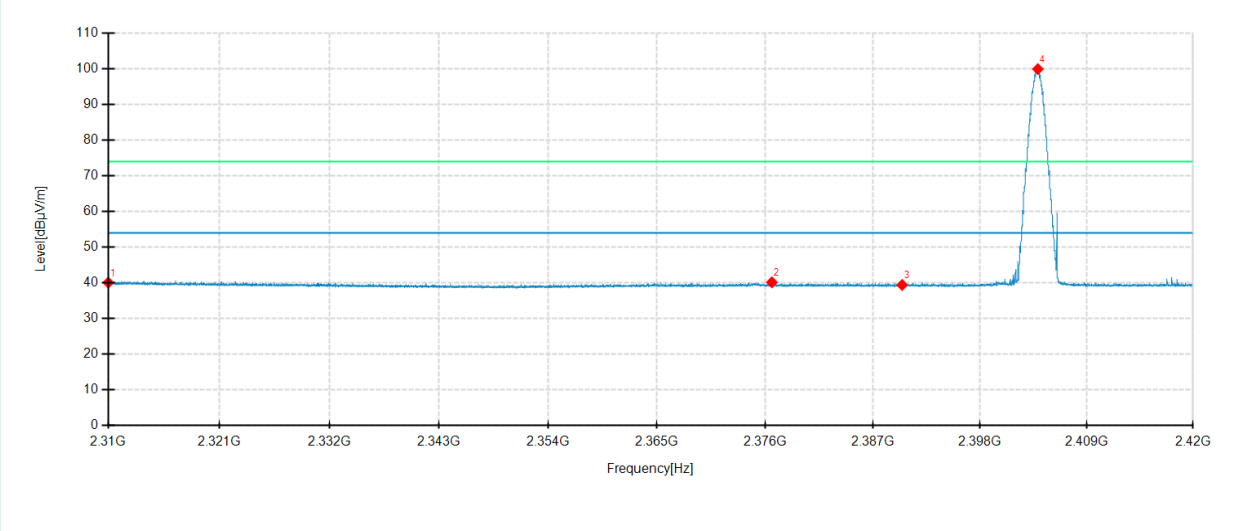
----- The following blanks -----

Lowest Frequency

Frequency 2402MHz

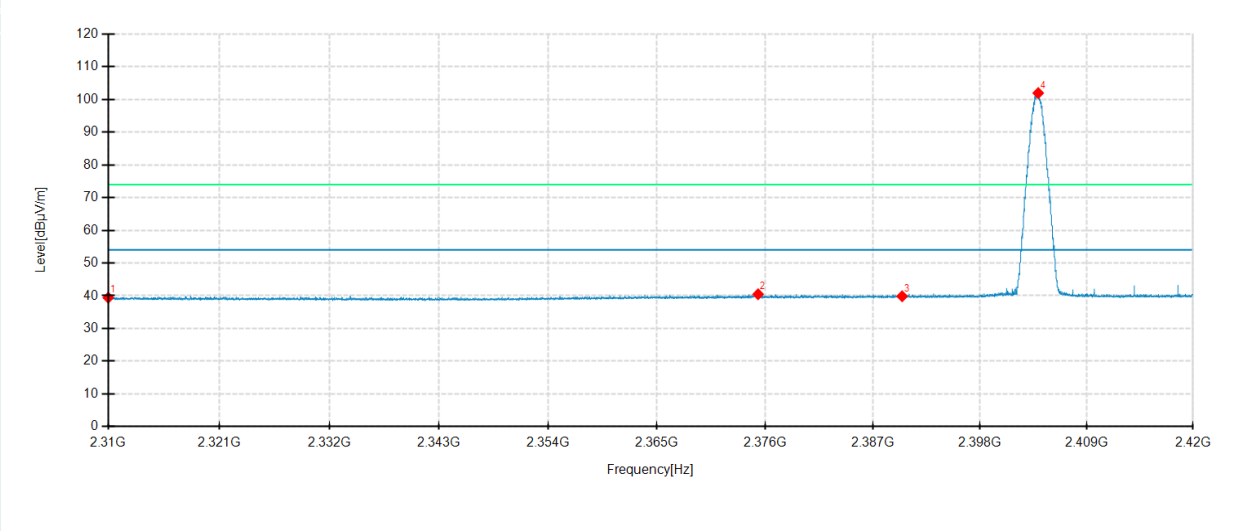
Detector mode: Average

Polarity: Horizontal



Detector mode: Average

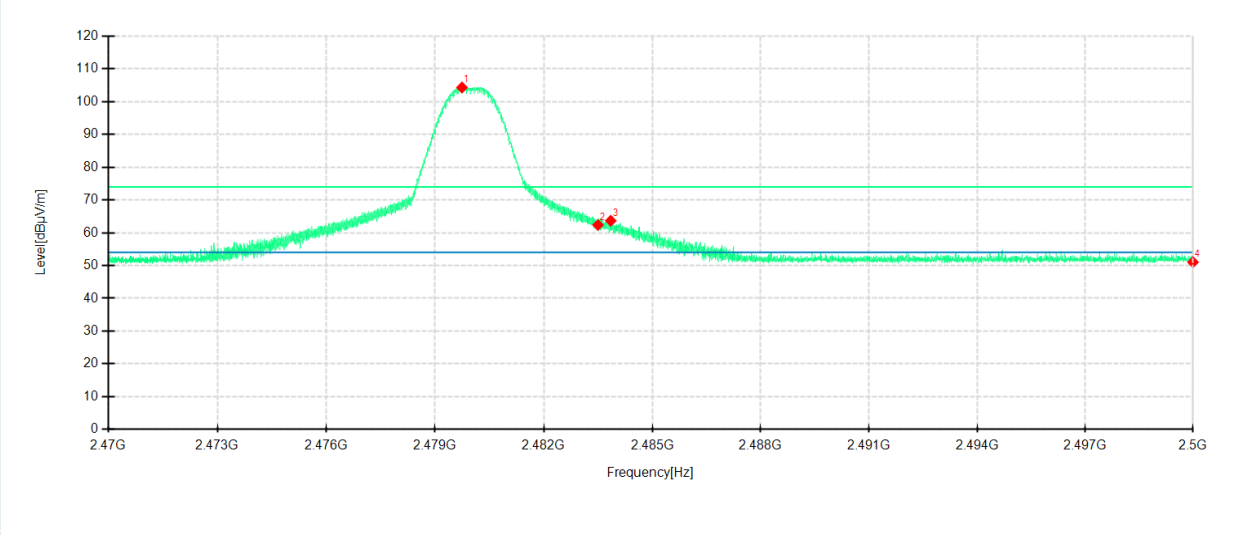
Polarity: Vertical



No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBμV/m	Margin dB	Height cm	Angle °	Pole	Remark
1	2310.0000	34.49	40.08	5.59	54.00	13.92	100	215	Horizontal	/
2	2376.6875	35.48	40.16	4.68	54.00	13.84	100	18	Horizontal	/
3	2390.0000	34.62	39.42	4.80	54.00	14.58	200	265	Horizontal	/
4	2403.9538	94.99	99.89	4.90	54.00	-45.89	200	215	Horizontal	No limit
1	2310.0000	34.53	39.42	4.89	54.00	14.58	200	95	Vertical	/
2	2375.2850	35.50	40.47	4.97	54.00	13.53	100	54	Vertical	/
3	2390.0000	34.63	39.85	5.22	54.00	14.15	200	56	Vertical	/
4	2403.9950	96.53	101.94	5.41	54.00	-47.94	100	254	Vertical	No limit

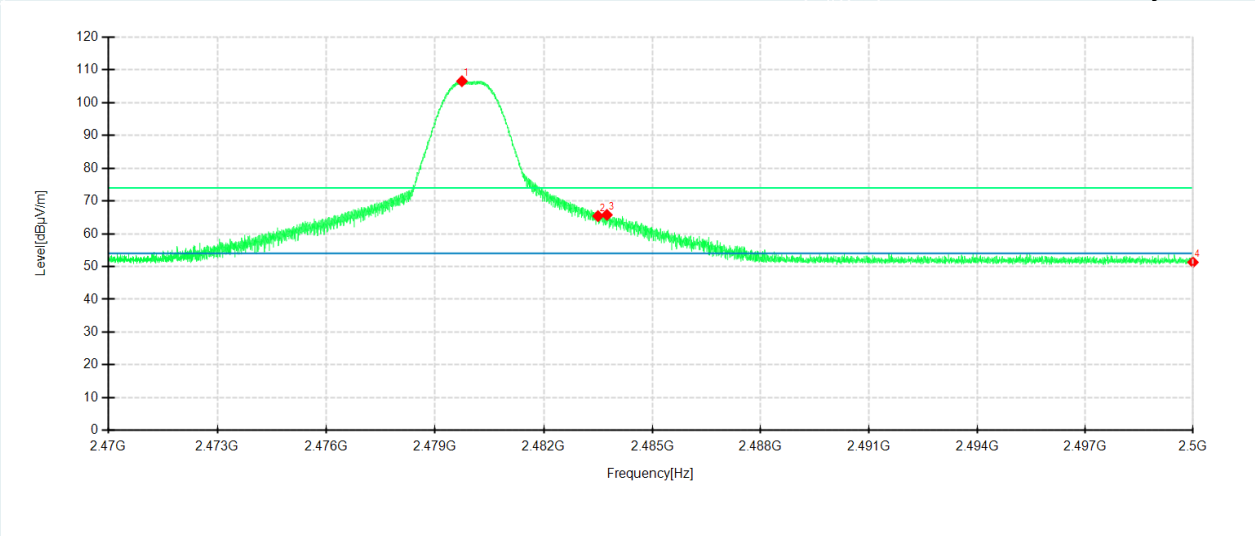
BLE 1M
Highest Frequency
Frequency 2480MHz
Detector mode: Peak

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical



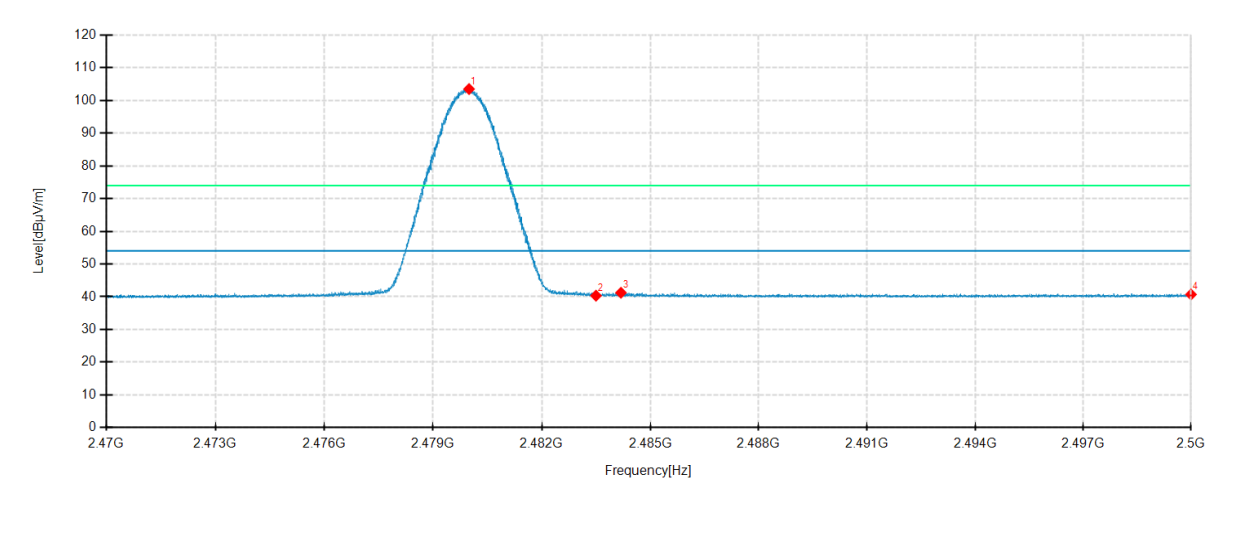
No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBuV/m	Margin dB	Height cm	Angle °	Pole	Remark
1	2479.7425	98.73	104.30	5.57	74.00	-30.30	200	223	Horizontal	No limit
2	2483.5000	56.74	62.37	5.63	74.00	11.63	100	195	Horizontal	/
3	2483.8525	58.02	63.66	5.64	74.00	10.34	200	223	Horizontal	/
4	2500.0000	45.13	51.03	5.90	74.00	22.97	200	16	Horizontal	/
1	2479.7425	100.84	106.53	5.69	74.00	-32.53	100	243	Vertical	No limit
2	2483.5000	59.69	65.39	5.70	74.00	8.61	100	273	Vertical	/
3	2483.7475	60.06	65.76	5.70	74.00	8.24	100	253	Vertical	/
4	2500.0000	45.60	51.30	5.70	74.00	22.70	100	243	Vertical	/

Highest Frequency

Frequency 2480MHz

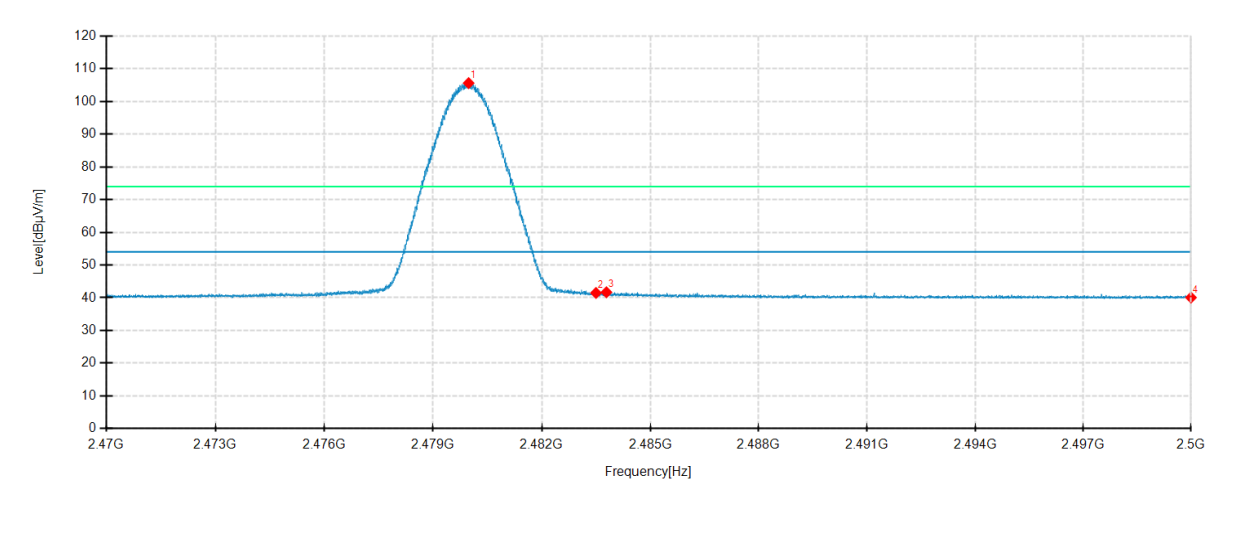
Detector mode: Average

Polarity: Horizontal



Detector mode: Average

Polarity: Vertical



No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBμV/m	Margin dB	Height cm	Angle °	Pole	Remark
1	2479.9938	97.90	103.47	5.57	54.00	-49.47	200	225	Horizontal	No limit
2	2483.5000	34.71	40.34	5.63	54.00	13.66	200	214	Horizontal	/
3	2484.1900	35.58	41.23	5.65	54.00	12.77	100	233	Horizontal	/
4	2500.0000	34.80	40.70	5.90	54.00	13.30	100	46	Horizontal	/
1	2479.9825	99.91	105.60	5.69	54.00	-51.60	100	243	Vertical	No limit
2	2483.5000	35.78	41.48	5.70	54.00	12.52	100	243	Vertical	/
3	2483.7888	35.99	41.69	5.70	54.00	12.31	100	273	Vertical	/
4	2500.0000	34.37	40.07	5.70	54.00	13.93	200	276	Vertical	/

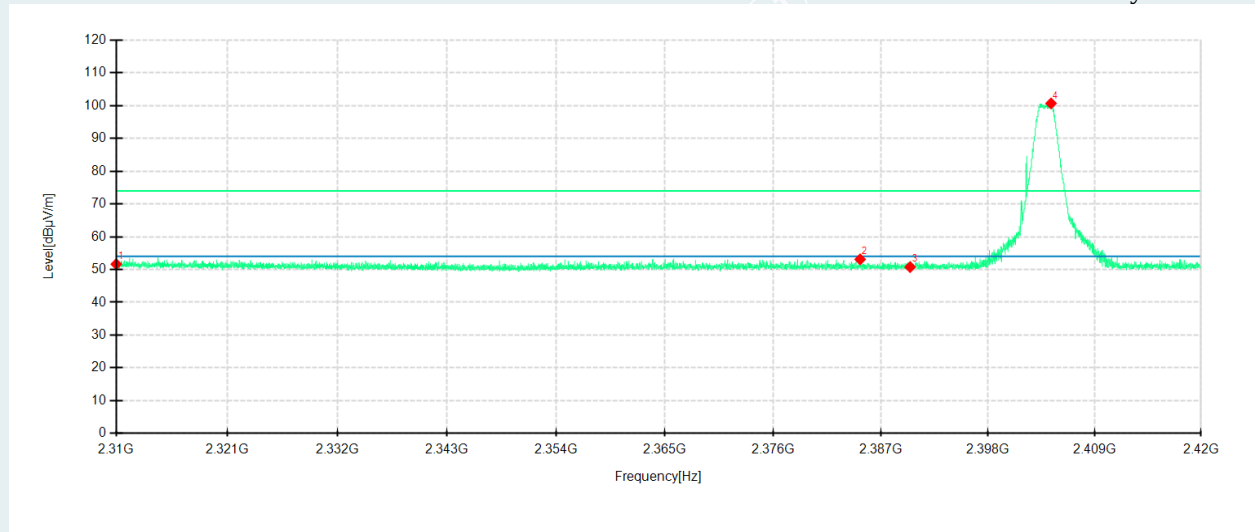
BLE 2M

Lowest Frequency

Frequency 2402MHz

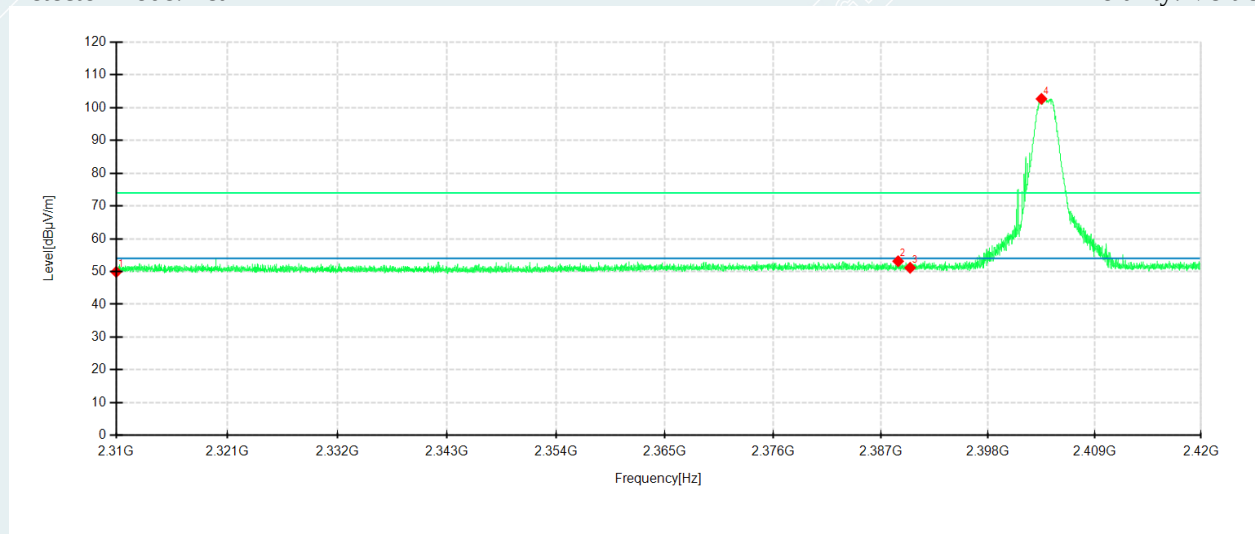
Detector mode: Peak

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical



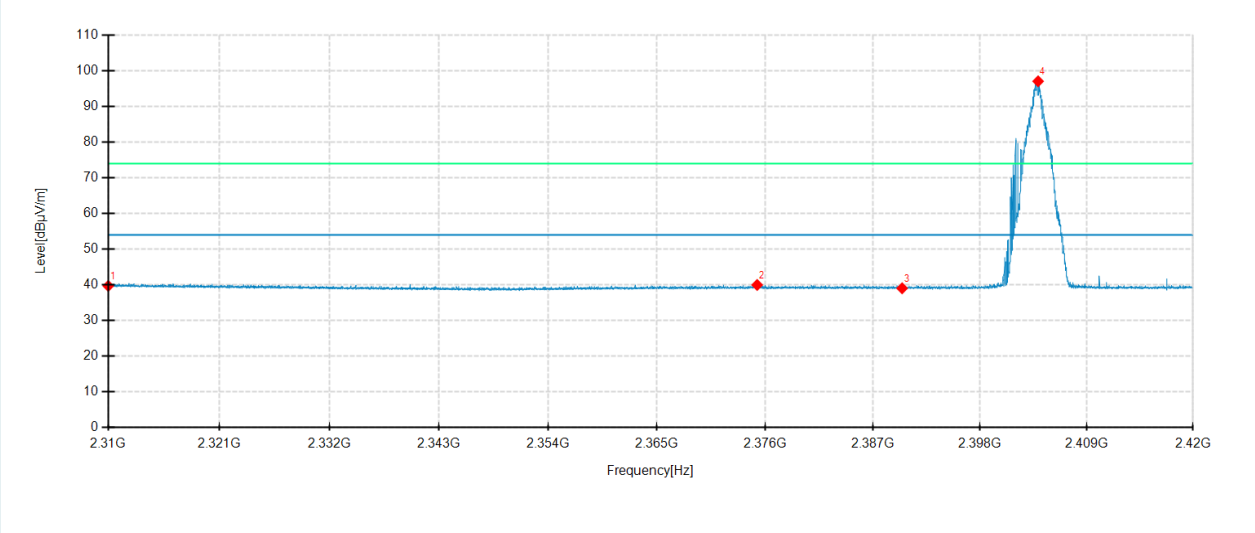
No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBμV/m	Margin dB	Height cm	Angle °	Pole	Remark
1	2310.0000	46.06	51.65	5.59	74.00	22.35	100	1	Horizontal	/
2	2384.8825	48.35	53.10	4.75	74.00	20.90	100	284	Horizontal	/
3	2390.0000	45.97	50.77	4.80	74.00	23.23	200	360	Horizontal	/
4	2404.4900	95.77	100.67	4.90	74.00	-26.67	200	212	Horizontal	No limit
1	2310.0000	45.00	49.89	4.89	74.00	24.11	100	193	Vertical	/
2	2388.7738	47.94	53.14	5.20	74.00	20.86	100	56	Vertical	/
3	2390.0000	45.93	51.15	5.22	74.00	22.85	200	256	Vertical	/
4	2403.5000	97.26	102.66	5.40	74.00	-28.66	100	243	Vertical	No limit

Lowest Frequency

Frequency 2402MHz

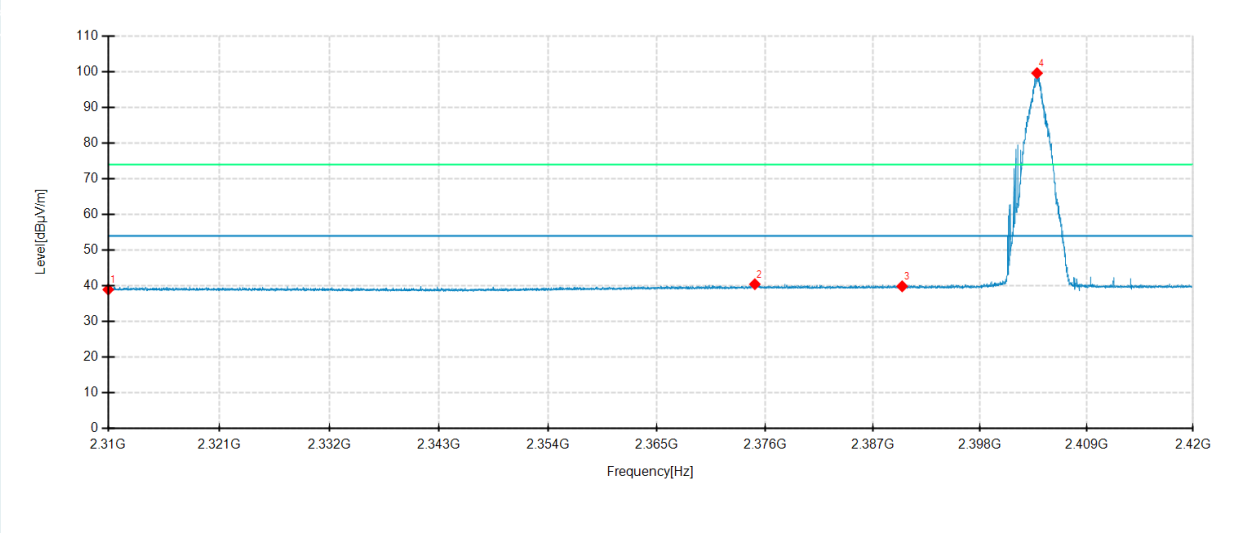
Detector mode: Average

Polarity: Horizontal



Detector mode: Average

Polarity: Vertical



No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBμV/m	Margin dB	Height cm	Angle °	Pole	Remark
1	2310.0000	34.11	39.70	5.59	54.00	14.30	200	15	Horizontal	/
2	2375.1888	35.31	39.98	4.67	54.00	14.02	200	214	Horizontal	/
3	2390.0000	34.24	39.04	4.80	54.00	14.96	200	154	Horizontal	/
4	2403.9813	92.13	97.03	4.90	54.00	-43.03	200	214	Horizontal	No limit
1	2310.0000	34.07	38.96	4.89	54.00	15.04	100	194	Vertical	/
2	2374.9550	35.51	40.48	4.97	54.00	13.52	200	7	Vertical	/
3	2390.0000	34.66	39.88	5.22	54.00	14.12	200	315	Vertical	/
4	2403.8713	94.18	99.59	5.41	54.00	-45.59	100	243	Vertical	No limit

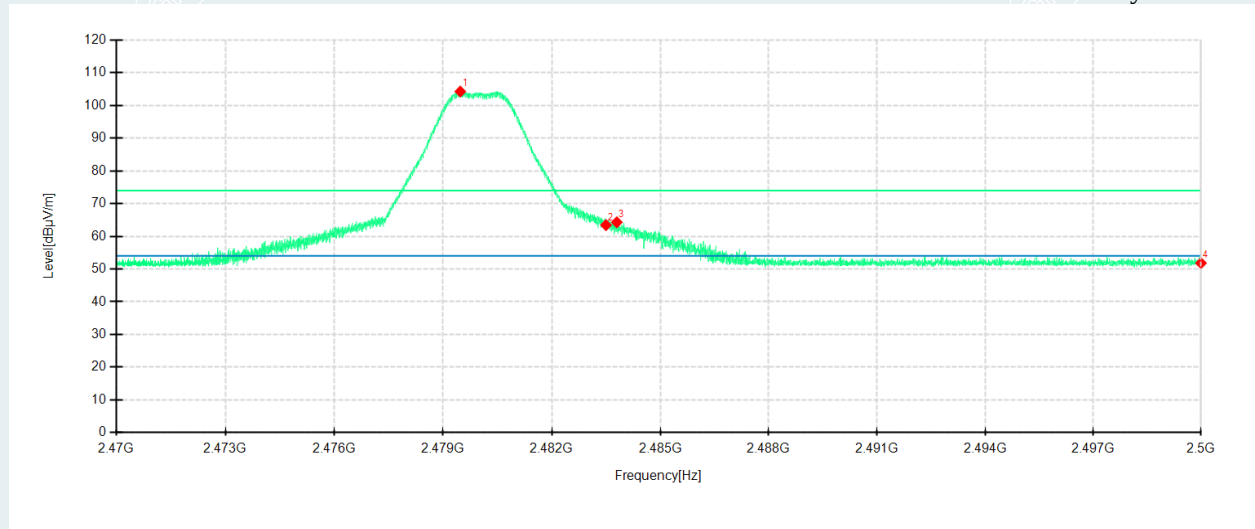
BLE 2M

Highest Frequency

Frequency 2480MHz

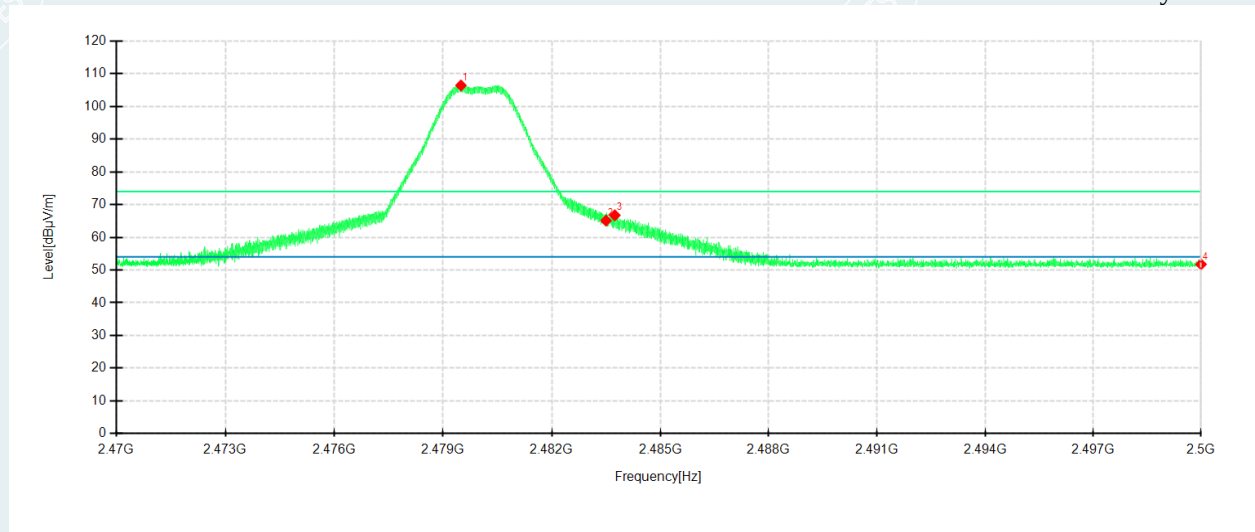
Detector mode: Peak

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical



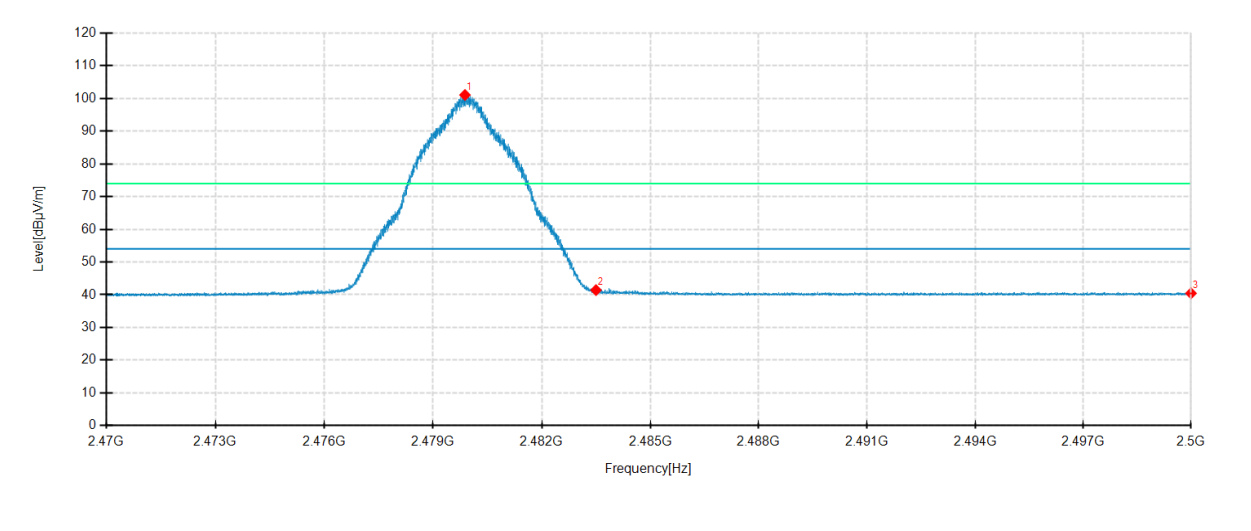
No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBμV/m	Margin dB	Height cm	Angle °	Pole	Remark
1	2479.4763	98.68	104.24	5.56	74.00	-30.24	200	224	Horizontal	No limit
2	2483.5000	57.80	63.43	5.63	74.00	10.57	100	224	Horizontal	/
3	2483.8000	58.66	64.30	5.64	74.00	9.70	200	195	Horizontal	/
4	2500.0000	45.92	51.82	5.90	74.00	22.18	100	5	Horizontal	/
1	2479.4950	100.73	106.42	5.69	74.00	-32.42	100	253	Vertical	No limit
2	2483.5000	59.41	65.11	5.70	74.00	8.89	100	213	Vertical	/
3	2483.7438	61.04	66.74	5.70	74.00	7.26	100	243	Vertical	/
4	2500.0000	46.05	51.75	5.70	74.00	22.25	200	334	Vertical	/

Highest Frequency

Frequency 2480MHz

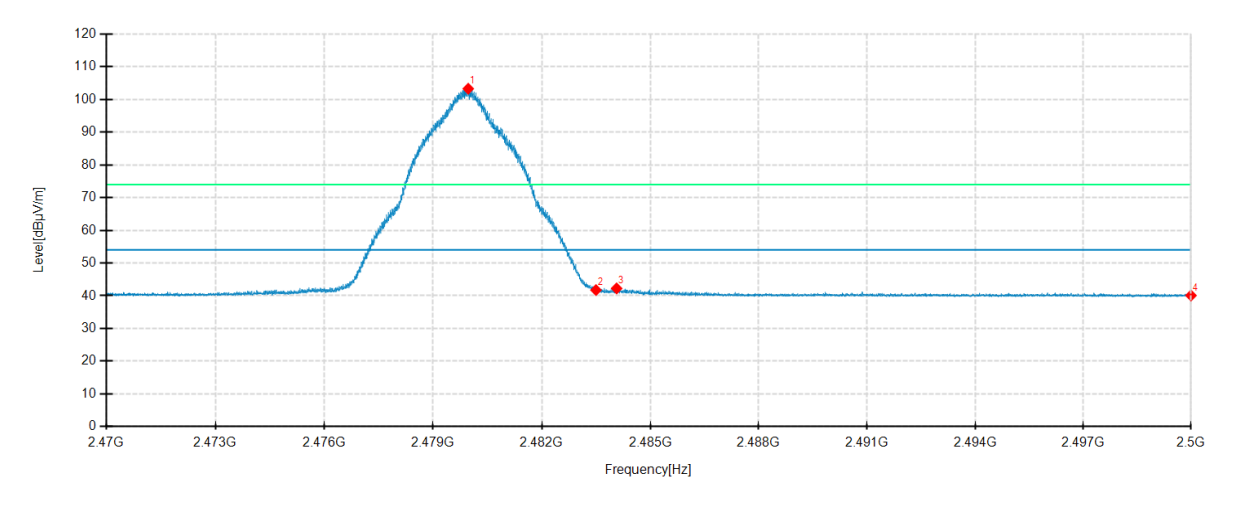
Detector mode: Average

Polarity: Horizontal



Detector mode: Average

Polarity: Vertical



No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBμV/m	Margin dB	Height cm	Angle °	Pole	Remark
1	2479.8813	95.49	101.06	5.57	54.00	-47.06	200	224	Horizontal	No limit
2	2483.5000	35.80	41.43	5.63	54.00	12.57	200	224	Horizontal	/
3	2500.0000	34.55	40.45	5.90	54.00	13.55	100	47	Horizontal	/
1	2479.9713	97.58	103.27	5.69	54.00	-49.27	100	245	Vertical	No limit
2	2483.5000	36.05	41.75	5.70	54.00	12.25	100	215	Vertical	/
3	2484.0700	36.55	42.25	5.70	54.00	11.75	200	218	Vertical	/
4	2500.0000	34.39	40.09	5.70	54.00	13.91	100	175	Vertical	/

Remark: Max field strength in 3m distance. No any other emission which falls in restricted bands can be detected and be reported.

APPENDIX A. PHOTOGRAPH OF THE TEST CONNECTION DIAGRAM

Please refer to the attached document E20230711057201-7-Test Photo.

APPENDIX B. PHOTOGRAPH OF THE EUT

Please refer to the attached document E20230711057201-8-EUT Photo.

----- End of Report -----