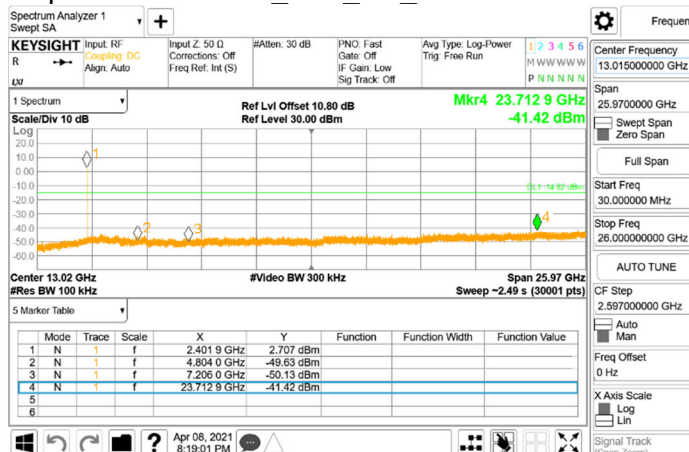
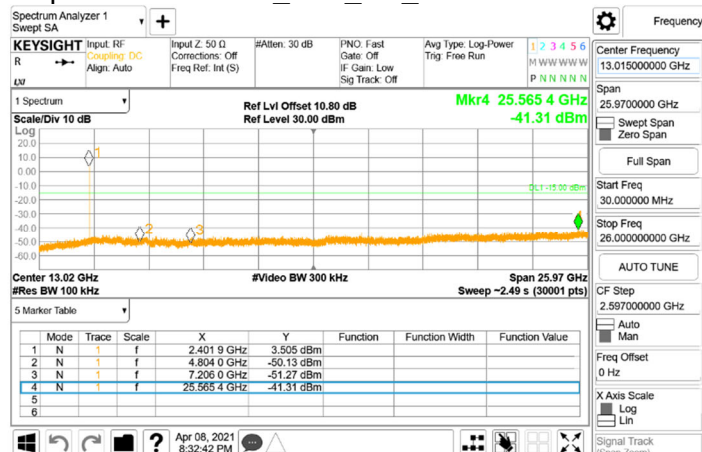


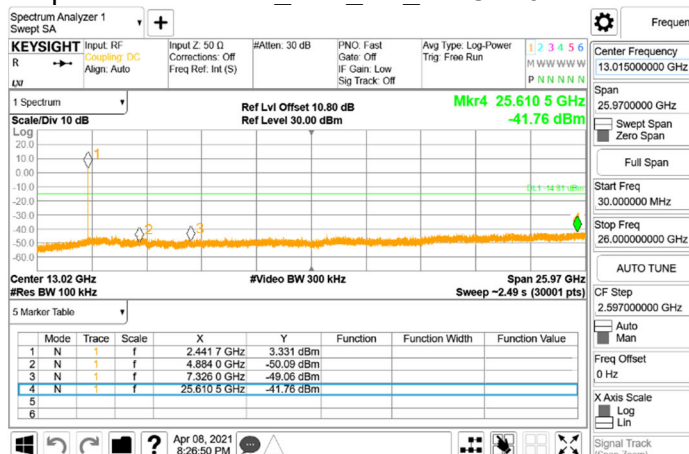
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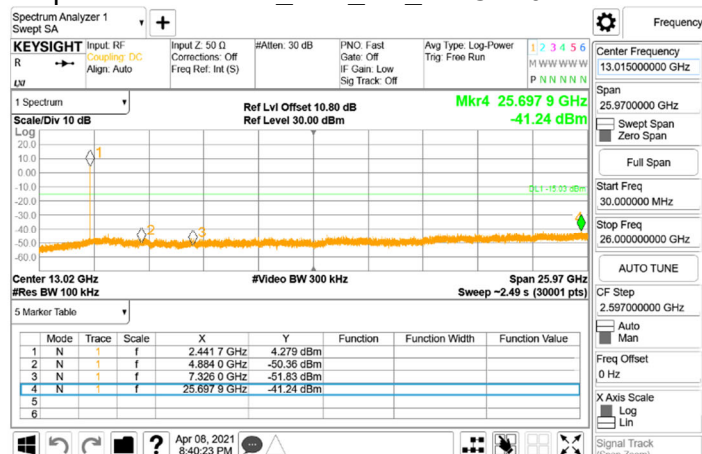
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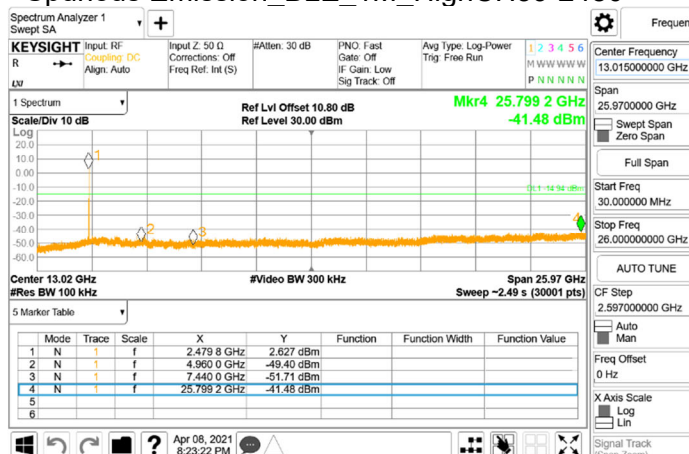
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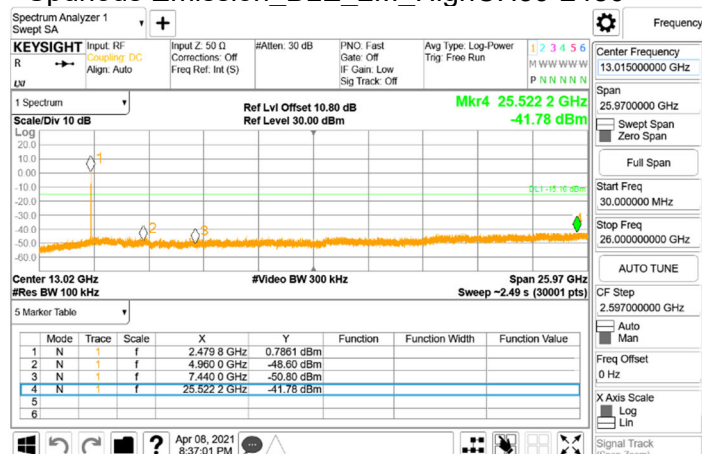
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### Spurious Emission\_BLE\_1M\_HighCH39-2480



### Spurious Emission\_BLE\_2M\_HighCH39-2480



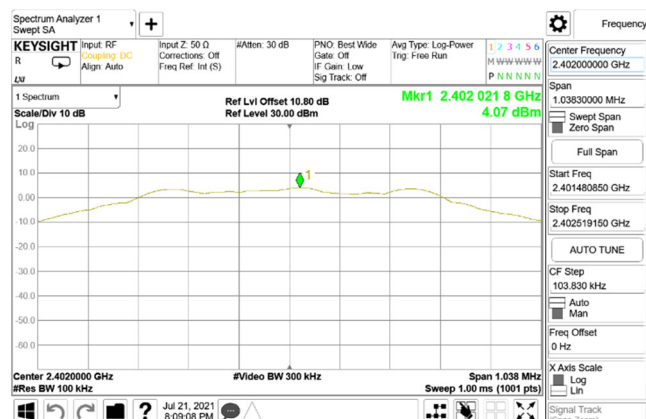
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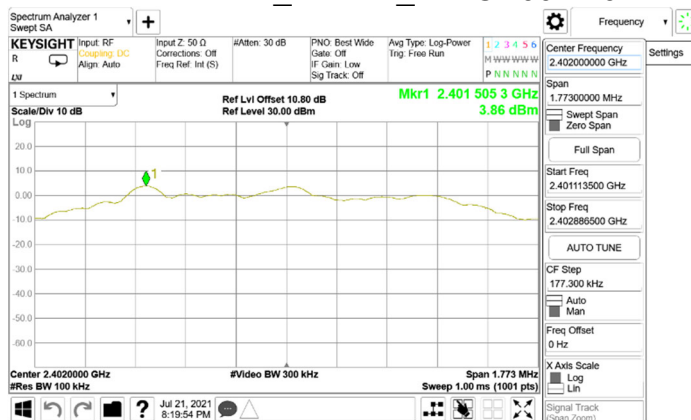
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## 9.5.2 SANT-Dipole No.4 & SANT-Monopole No.7

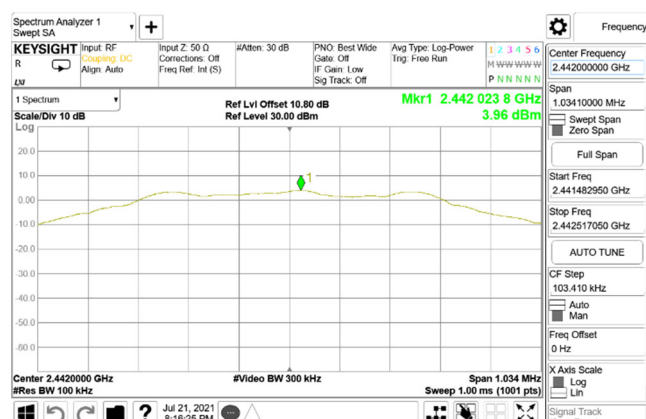
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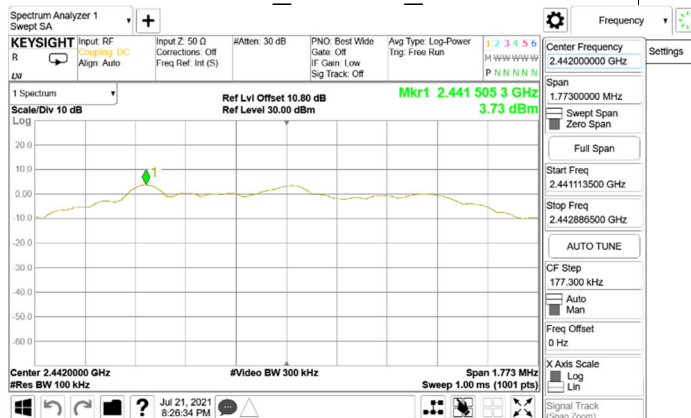
### Reference Level\_BLE2M\_LowCH00-2402



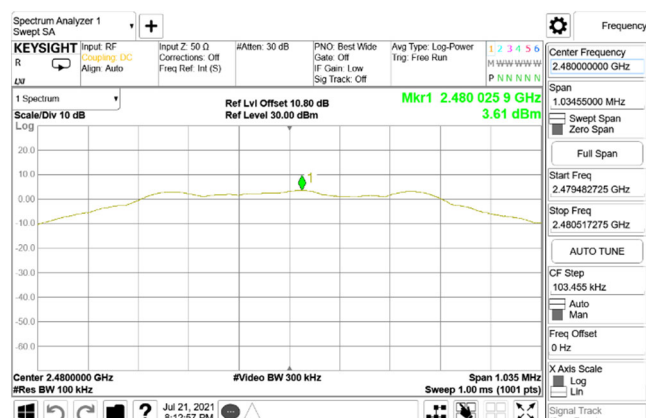
### Reference Level\_BLE1M\_MidCH20-2442



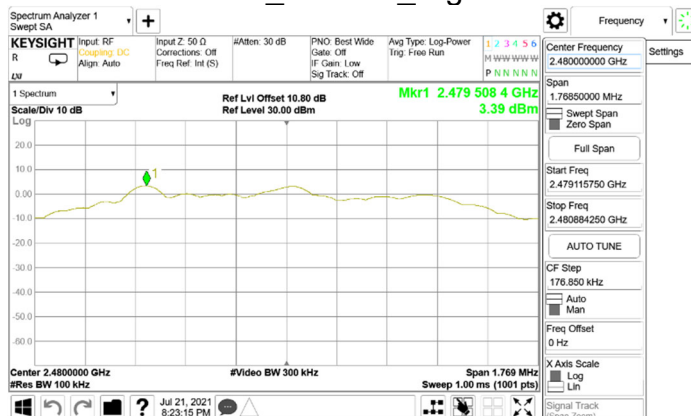
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### Reference Level\_BLE1M\_HighCH39-2480



### Reference Level\_BLE2M\_HighCH39-2480

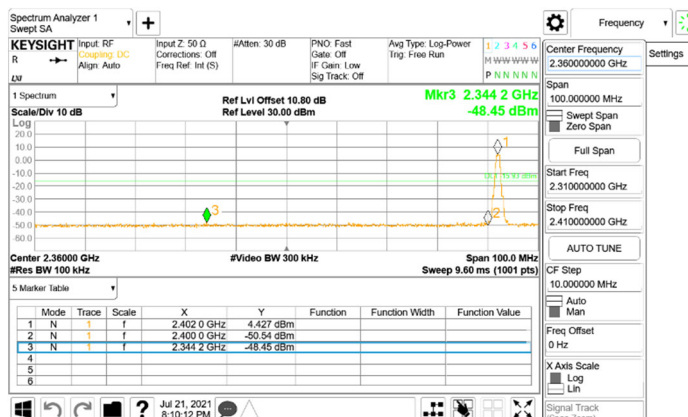


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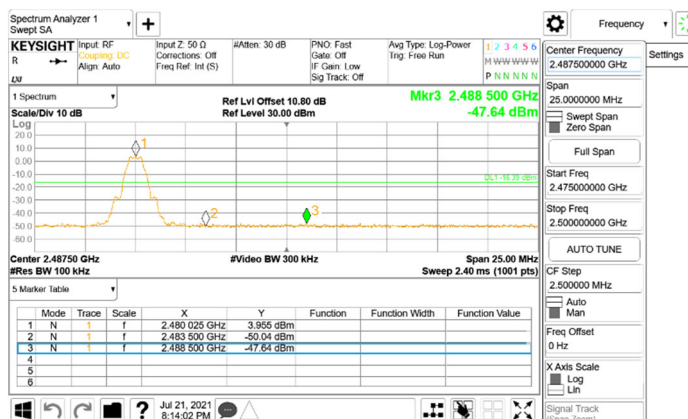
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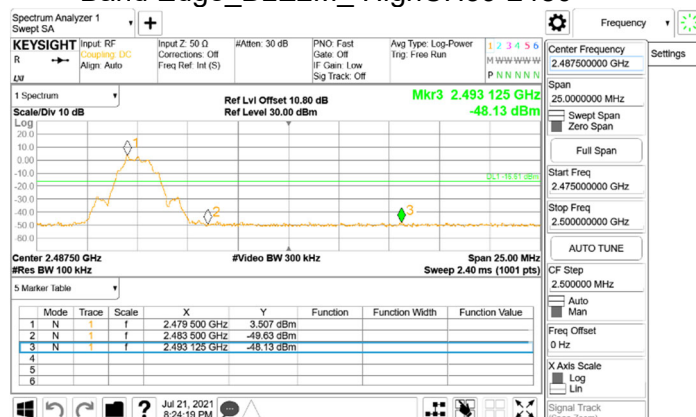
### Band Edge\_BLE2M\_LowCH00-2402



### Band Edge\_BLE1M\_HighCH39-2480



### Band Edge\_BLE2M\_HighCH39-2480



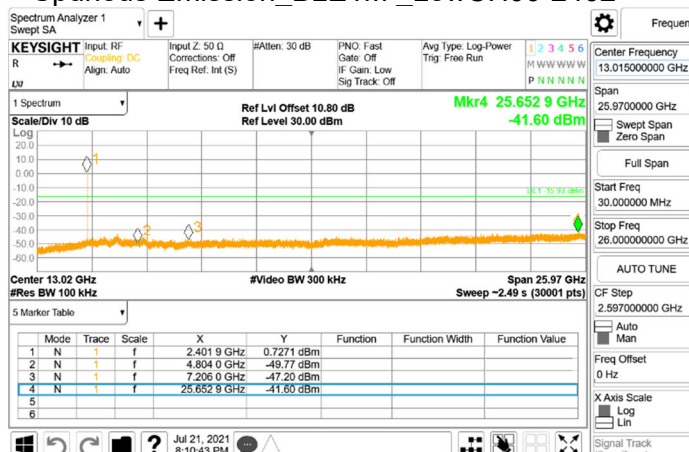
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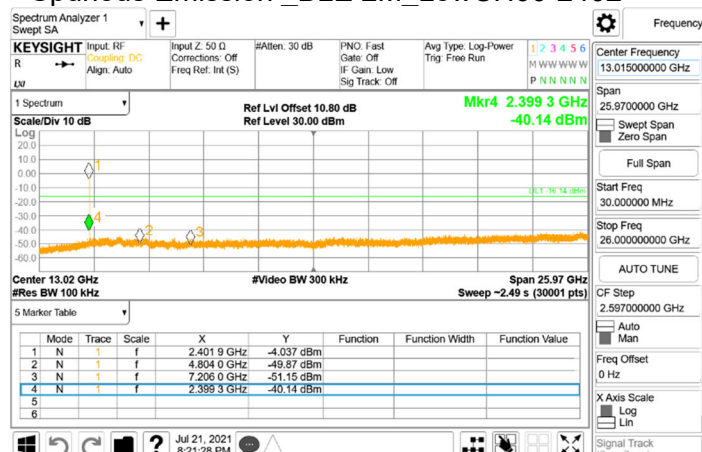
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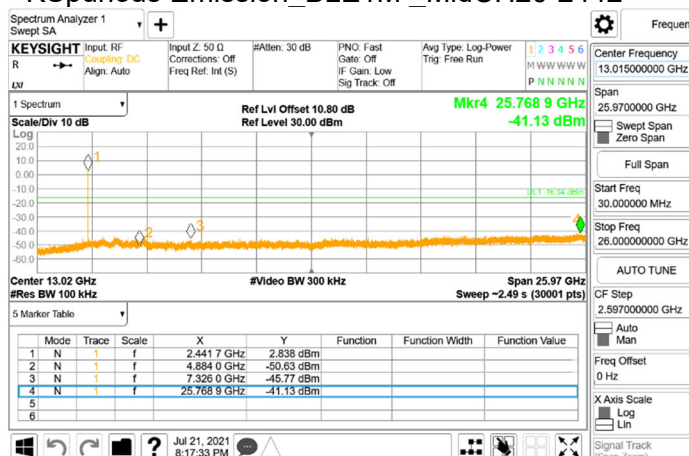
### Spurious Emission\_BLE1M\_LowCH00-2402



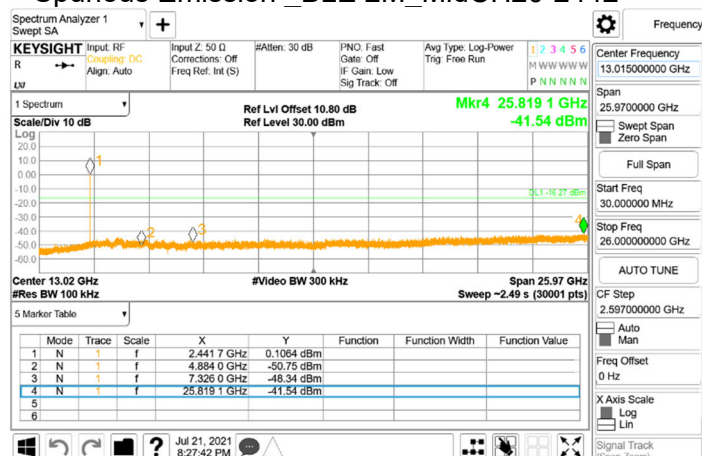
### Spurious Emission\_BLE 2M\_LowCH00-2402



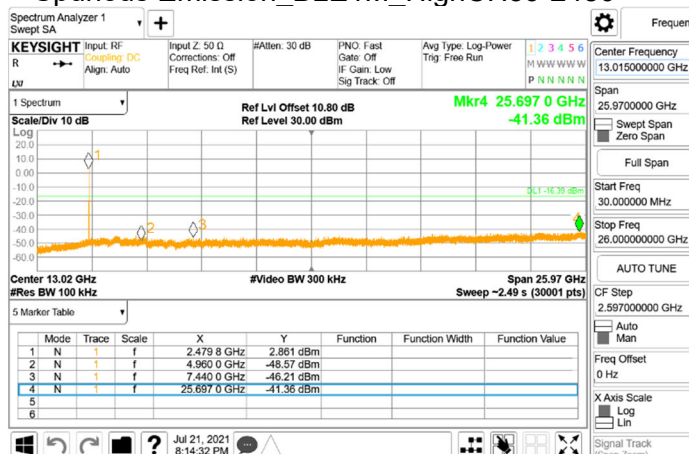
### KSpurious Emission\_BLE1M\_MidCH20-2442



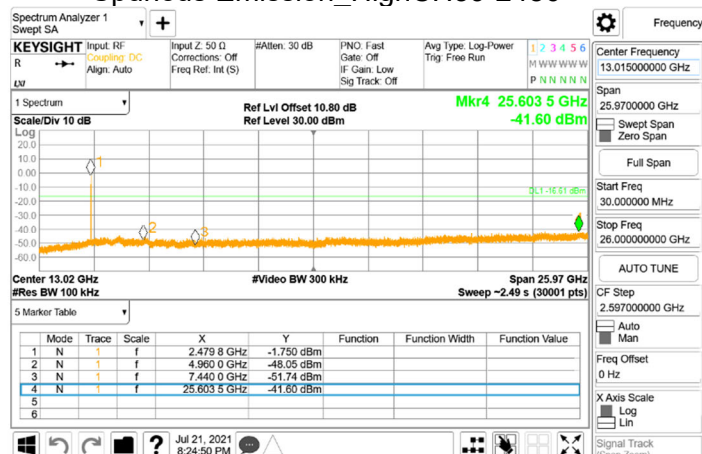
### Spurious Emission\_BLE 2M\_MidCH20-2442



### Spurious Emission\_BLE1M\_HighCH39-2480



### Spurious Emission\_HighCH39-2480



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## 10 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

### 10.1 Standard Applicable

In any 100 kHz 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 20 dB below that in the 100 kHz 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. In addition, radiated emissions which fall in the restricted bands must also comply with the §15.209 and RSS-Gen §8.9 Table 5 and 6 limit as below.

And according to §15.33(a) (1) & RSS-Gen §6.13.2.a for an intentional radiator operates below 10GHz, the frequency range of measurements: to the tenth harmonic of the highest fundamental frequency or to 40GHz, whichever is lower.

Frequency (MHz)	Field strength (microvolts/meter)	Distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	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 (dBμV/m) = 20 log Emission level (μV/m)

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## 10.2 Measurement Equipment Used

Radiated Emission Test Site: SAC D					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Broadband Antenna	TESEQ	CBL 6112D	35240	09/08/2020	09/07/2021
Horn Antenna	Schwarzbeck	BBHA9120D	1341	06/04/2021	06/03/2022
Horn Antenna	Schwarzbeck	BBHA9170	185	07/30/2020	07/29/2021
Loop Antenna	ETS.LINDGREN	6502	143303	05/07/2021	05/06/2022
3m Site NSA	SGS	966 chamber D	N/A	07/12/2021	07/11/2022
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	03/22/2021	03/21/2022
Pre-Amplifier	EMC Instru-ments	EMC184045B	980135	10/27/2020	10/26/2021
Pre-Amplifier	EMC Instru-ments	EMC9135	980234	11/19/2020	11/18/2021
Pre-Amplifier	EMC Instru-ments	EMC12630SE	980271	11/19/2020	11/18/2021
Attenuator	Marvelous	WATT-218FS-10	RF25	11/19/2020	11/18/2021
High Pass Filter	R&S	F13 HPF 3GHz	RF175	11/19/2020	11/18/2021
Lowpass Filter	Woken	EWT-56-0019	RF173	11/19/2020	11/18/2021
Notch Filter	Woken	EWT-54-0038	RF178	11/19/2020	11/18/2021
Coaxial Cable	Huber Suhner	EMC106-SM-SM-7200	150703	11/19/2020	11/18/2021
Coaxial Cable	Huber+Suhner	RG 214/U	W21.01	11/19/2020	11/18/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17413/4	11/19/2020	11/18/2021
Notebook	Lenovo	T470	P0001293	N/A	N/A
POE Power supply	GRT	GRT-240100	1406002327	N.C.R	N.C.R
Test Software	audix	e3	20923 sgs Ver.9	N.C.R	N.C.R

Note: N.C.R refers to Not Calibrated Required

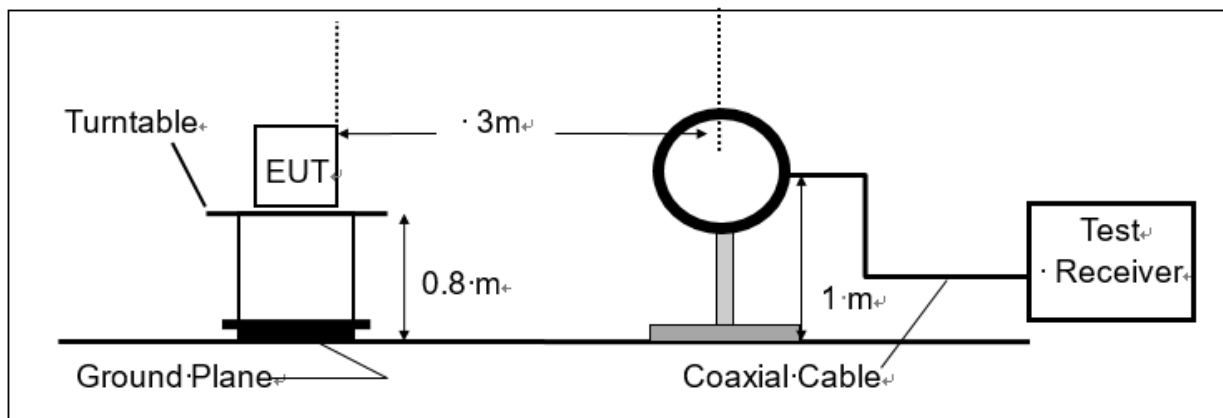
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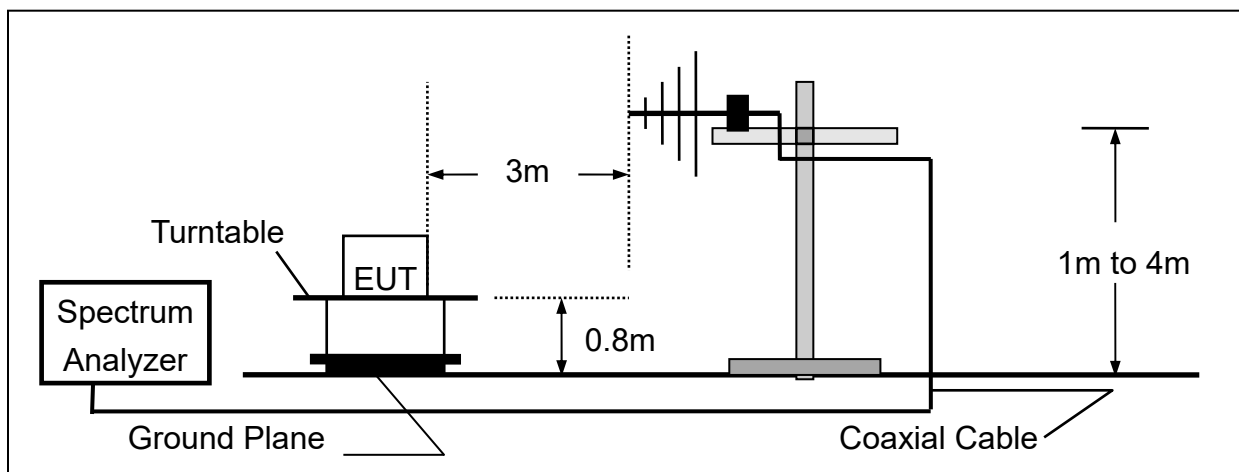
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## 10.3 Test SET-UP

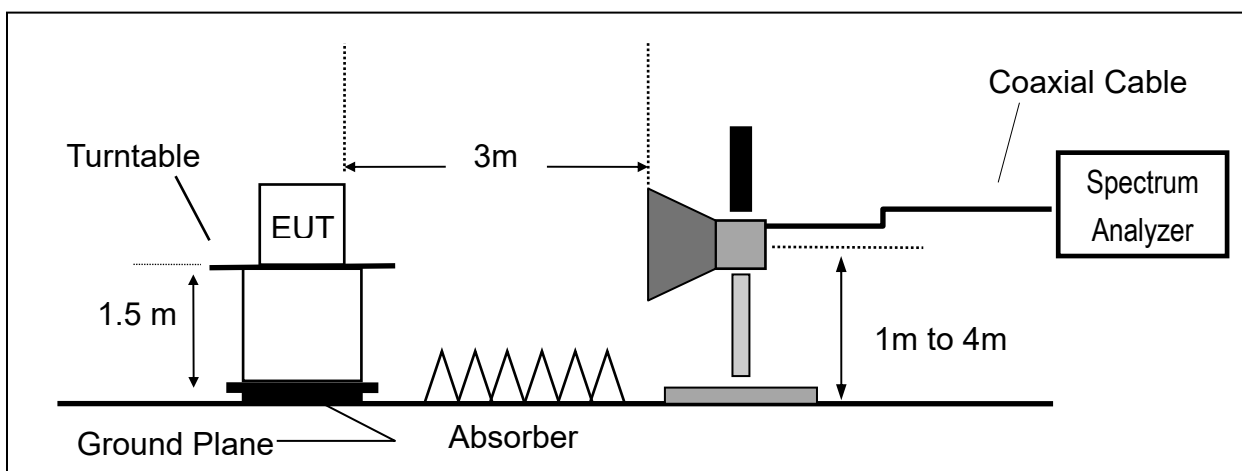
### (A) Radiated Emission Test Set-UP Frequency Below 30MHz.



### (B) Radiated Emission Test Set-UP, Frequency form 30MHz to 1000MHz



### (C) Radiated Emission Test Set-UP Frequency Over 1 GHz



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## 10.4 Measurement Procedure

1. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
2. The EUT was placed on a turn table with 0.8m for frequency < 1GHz and 1.5m for frequency > 1GHz above ground plan.
3. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
4. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
5. Set the spectrum analyzer as RBW=120 kHz and VBW=300 kHz for Peak Detector (PK) and Quasi-peak (QP) at frequency below 1 GHz.
6. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Peak Detector at frequency above 1 GHz.
7. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW ≥ 1/T (Duty cycle < 98%) for Average Detector at frequency above 1 GHz.
8. When measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made “while keeping the antenna in the ‘cone of radiation’ from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response.” is still within the 3dB illumination BW of the measurement antenna.
9. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
10. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. On spectrum, change spectrum mode in linear display mode, and reduce VBW = 10Hz if average reading is measured.
11. Repeat above procedures until all default test channel measured were complete.

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## 10.5 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading.

The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

**Where** *FS* = Field Strength

*CL* = Cable Attenuation Factor (Cable Loss)

*RA* = Reading Amplitude

*AG* = Amplifier Gain

*AF* = Antenna Factor

*The limit of the emission level is expressed in dBuV/m, which converts  $20 \cdot \log(uV/m)$*

*Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)*

*Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)*

## 10.6 Test Results of Radiated Spurious Emissions form 9 kHz to 30 MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit per 15.31(o) & RSS-GEN §6.13.2 was not reported.

## 10.7 Measurement Result:

Note: Refer to next page spectrum analyzer data chart and tabular data sheets.

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## 10.7.1 Radiated Band Edge Measurement Result

### 10.7.2 DANT-Dipole Ant No.5

#### BLE 1M

Report Number :E2/2021/30017

Test Site :SAC D

Operation Mode :BLE 1M

Test Date :2021-08-03

Test Frequency :2402 MHz

Temp./Humi. :21.1/65

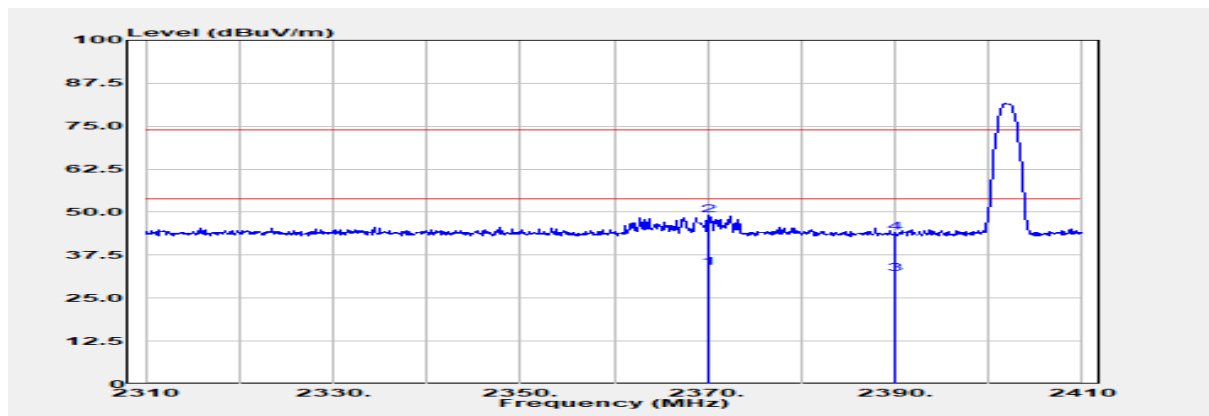
Test Mode :BE CH LOW

Antenna Pol. :Vertical

EUT Pol :E1 Plane

Engineer :Andy Wang

Note :NO.5



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2370.000	Average	41.45	-7.61	33.84	54.00	-20.16
2370.000	Peak	56.81	-7.61	49.20	74.00	-24.80
2390.000	Average	40.05	-7.89	32.16	54.00	-21.84
2390.000	Peak	52.10	-7.89	44.21	74.00	-29.79

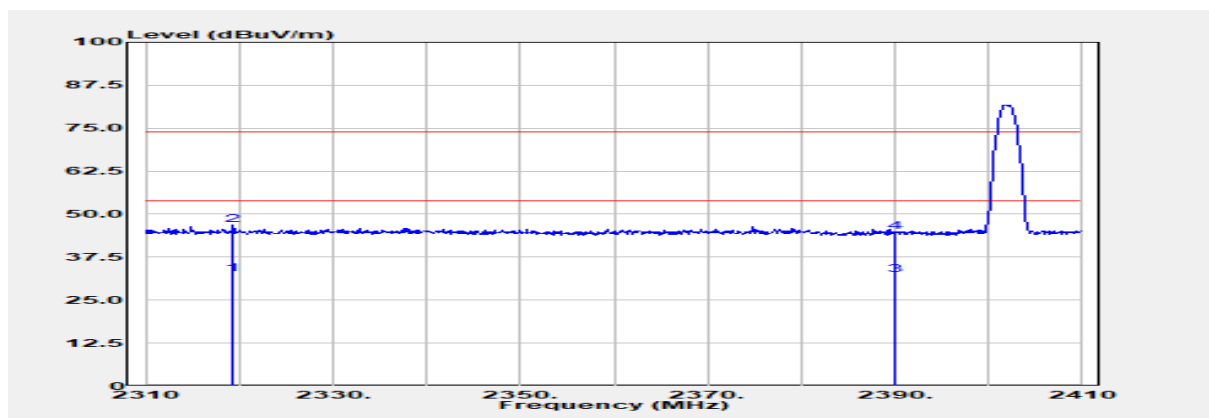
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Report Number :E2/2021/30017  
 Operation Mode :BLE 1M  
 Test Frequency :2402 MHz  
 Test Mode :BE CH LOW  
 EUT Pol :E1 Plane  
 Note :NO.5

Test Site :SAC D  
 Test Date :2021-08-03  
 Temp./Humi. :21.1/65  
 Antenna Pol. :Horizontal  
 Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2319.300	Average	40.14	-7.68	32.46	54.00	-21.54
2319.300	Peak	54.62	-7.68	46.94	74.00	-27.06
2390.000	Average	40.14	-7.89	32.26	54.00	-21.74
2390.000	Peak	52.87	-7.89	44.98	74.00	-29.02

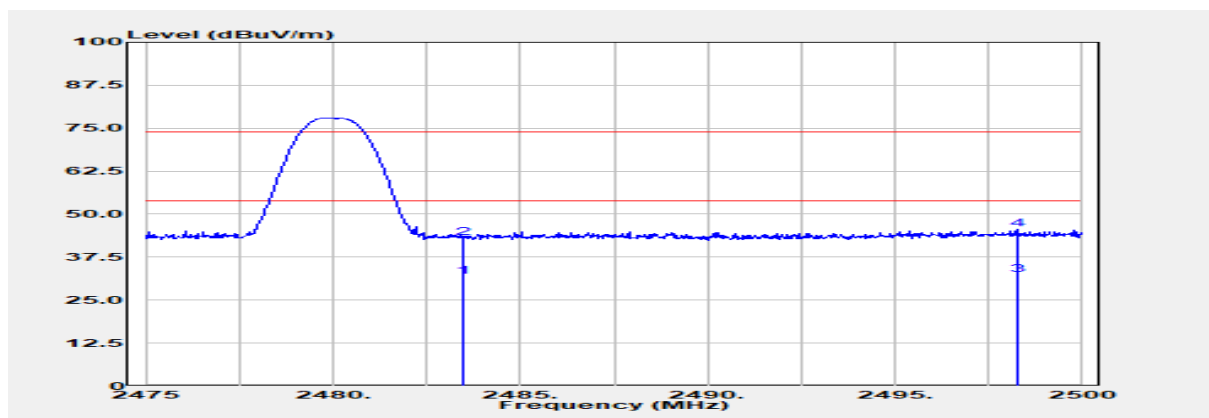
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Report Number :E2/2021/30017  
 Operation Mode :BLE 1M  
 Test Frequency :2480 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :E1 Plane  
 Note :NO.5

Test Site :SAC D  
 Test Date :2021-08-03  
 Temp./Humi. :21.1/65  
 Antenna Pol. :Vertical  
 Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.500	Average	39.89	-8.15	31.74	54.00	-22.26
2483.500	Peak	51.14	-8.15	42.99	74.00	-31.01
2498.250	Average	40.06	-7.67	32.39	54.00	-21.61
2498.250	Peak	53.17	-7.67	45.50	74.00	-28.50

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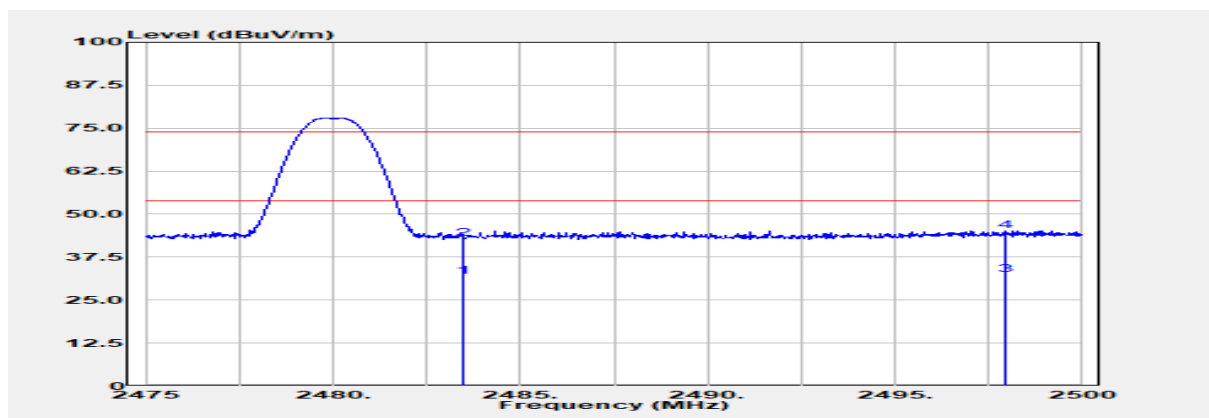
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Report Number :E2/2021/30017  
 Operation Mode :BLE 1M  
 Test Frequency :2480 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :E1 Plane  
 Note :NO.5

Test Site :SAC D  
 Test Date :2021-08-03  
 Temp./Humi. :21.1/65  
 Antenna Pol. :Horizontal  
 Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.500	Average	39.95	-8.15	31.80	54.00	-22.20
2483.500	Peak	51.02	-8.15	42.86	74.00	-31.14
2497.975	Average	40.11	-7.69	32.43	54.00	-21.57
2497.975	Peak	52.92	-7.69	45.23	74.00	-28.77

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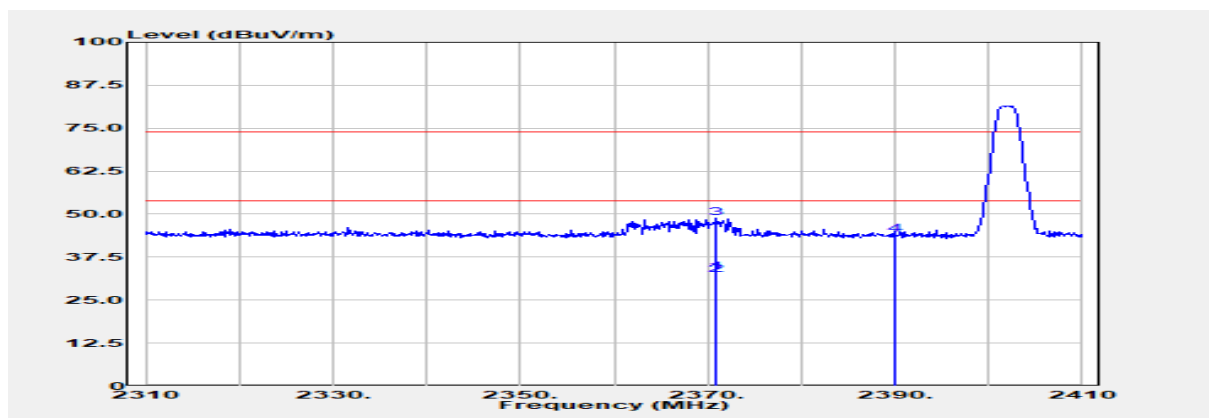
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## BLE 2M

Report Number :E2/2021/30017  
 Operation Mode :BLE 2M  
 Test Frequency :2402 MHz  
 Test Mode :BE CH LOW  
 EUT Pol :E1 Plane  
 Note :NO.5

Test Site :SAC D  
 Test Date :2021-08-03  
 Temp./Humi. :21.1/65  
 Antenna Pol. :Vertical  
 Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2371.000	Average	40.79	-7.61	33.18	54.00	-20.82
2371.000	Average	39.87	-7.61	32.26	54.00	-21.74
2371.000	Peak	56.39	-7.61	48.78	74.00	-25.22
2390.000	Peak	51.96	-7.89	44.07	74.00	-29.93

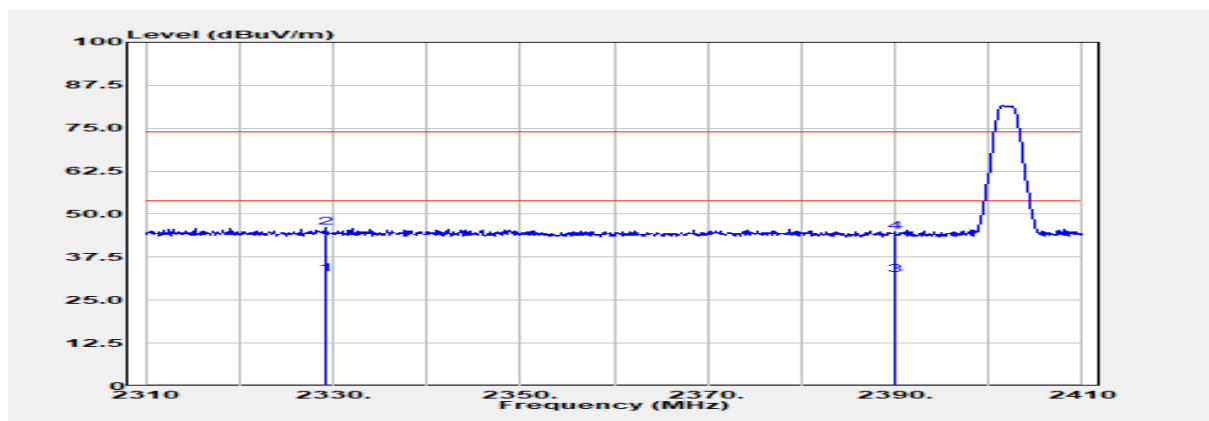
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Report Number :E2/2021/30017  
 Operation Mode :BLE 2M  
 Test Frequency :2402 MHz  
 Test Mode :BE CH LOW  
 EUT Pol :E1 Plane  
 Note :NO.5

Test Site :SAC D  
 Test Date :2021-08-03  
 Temp./Humi. :21.1/65  
 Antenna Pol. :Horizontal  
 Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2329.100	Average	40.14	-7.64	32.50	54.00	-21.50
2329.100	Peak	53.64	-7.64	46.00	74.00	-28.00
2390.000	Average	40.13	-7.89	32.25	54.00	-21.75
2390.000	Peak	52.77	-7.89	44.88	74.00	-29.12

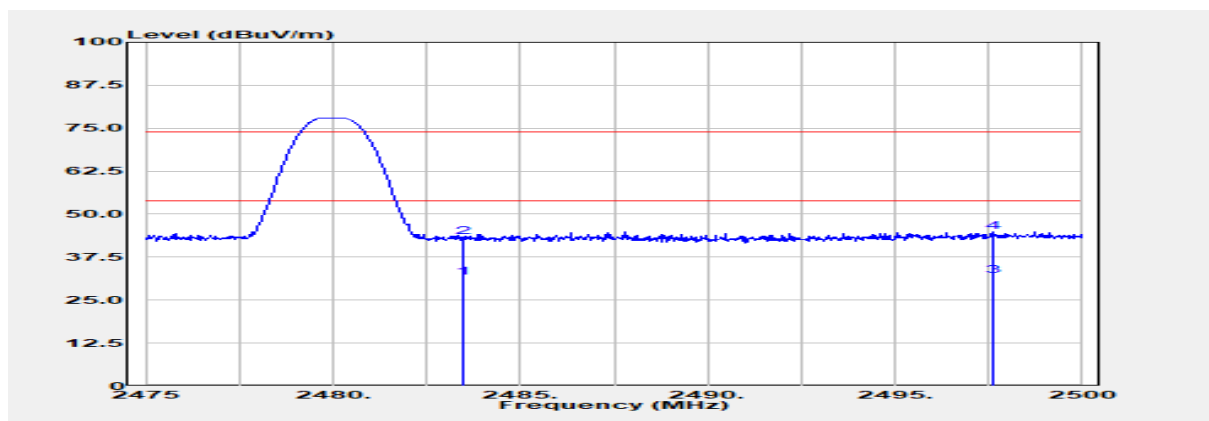
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Report Number :E2/2021/30017  
 Operation Mode :BLE 2M  
 Test Frequency :2480 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :E1 Plane  
 Note :NO.5

Test Site :SAC D  
 Test Date :2021-08-03  
 Temp./Humi. :21.1/65  
 Antenna Pol. :Vertical  
 Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.500	Average	39.74	-8.15	31.59	54.00	-22.41
2483.500	Peak	51.44	-8.15	43.29	74.00	-30.71
2497.600	Average	39.86	-7.71	32.15	54.00	-21.85
2497.600	Peak	52.59	-7.71	44.88	74.00	-29.12

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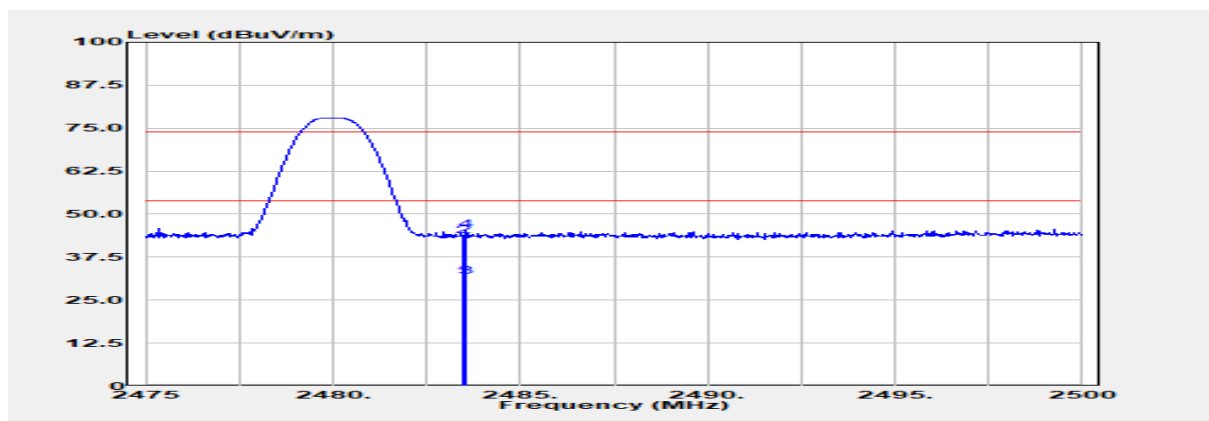
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Report Number :E2/2021/30017  
 Operation Mode :BLE 2M  
 Test Frequency :2480 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :E1 Plane  
 Note :NO.5

Test Site :SAC D  
 Test Date :2021-08-03  
 Temp./Humi. :21.1/65  
 Antenna Pol. :Horizontal  
 Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.500	Average	39.79	-8.15	31.64	54.00	-22.36
2483.500	Peak	51.70	-8.15	43.55	74.00	-30.45
2483.550	Average	39.92	-8.15	31.77	54.00	-22.23
2483.550	Peak	53.53	-8.15	45.38	74.00	-28.62

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### 10.7.3 SANT-Dipole No.4

#### BLE1M

Report Number :E2/2021/30017

Test Site :966 Chamber D

Operation Mode :BLE 1M

Test Date :2021-07-19

Test Frequency :2402 MHz

Temp./Humi. :20.3/65

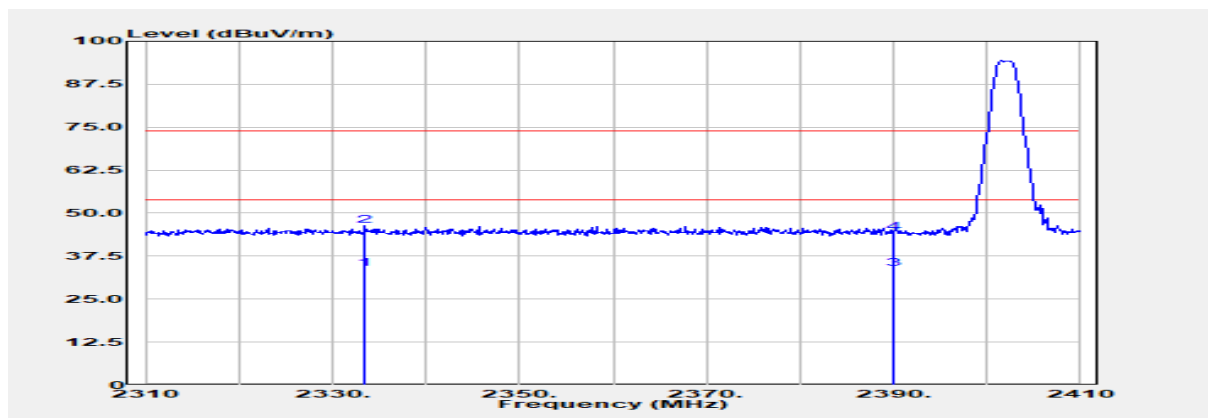
Test Mode :BE CH LOW

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Jack Tseng

Ant :NO.4 Dipole



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2333.500	Average	41.44	-7.63	33.81	54.00	-20.19
2333.500	Peak	54.04	-7.63	46.41	74.00	-27.59
2390.000	Average	41.65	-7.89	33.77	54.00	-20.23
2390.000	Peak	52.14	-7.89	44.25	74.00	-29.75

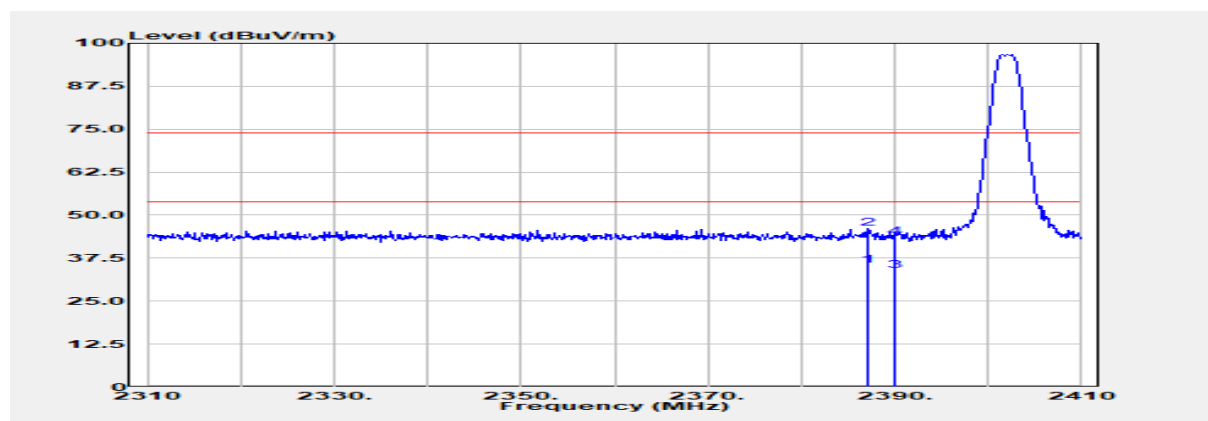
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Report Number :E2/2021/30017  
 Operation Mode :BLE 1M  
 Test Frequency :2402 MHz  
 Test Mode :BE CH LOW  
 EUT Pol :E2 Plane  
 Ant :NO.4 Dipole

Test Site :966 Chamber D  
 Test Date :2021-07-19  
 Temp./Humi. :20.3/65  
 Antenna Pol. :Horizontal  
 Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2387.100	Average	43.08	-7.80	35.28	54.00	-18.72
2387.100	Peak	53.80	-7.80	46.00	74.00	-28.00
2390.000	Average	41.75	-7.89	33.87	54.00	-20.13
2390.000	Peak	51.47	-7.89	43.58	74.00	-30.42

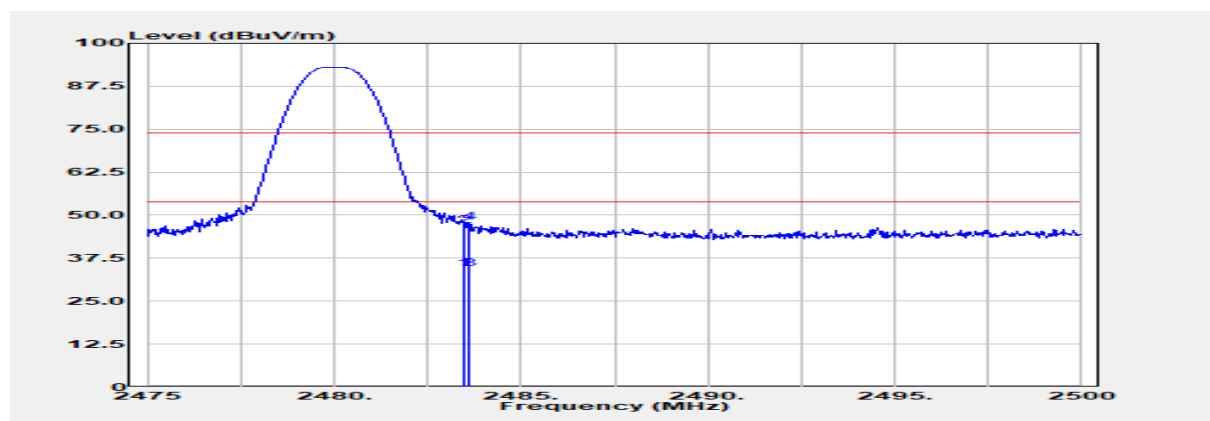
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Report Number :E2/2021/30017  
 Operation Mode :BLE 1M  
 Test Frequency :2480 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :E2 Plane  
 Ant :NO.4 Dipole

Test Site :966 Chamber D  
 Test Date :2021-07-19  
 Temp./Humi. :20.3/65  
 Antenna Pol. :Vertical  
 Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2483.500	Average	42.58	-8.15	34.43	54.00	-19.57
2483.500	Peak	54.93	-8.15	46.78	74.00	-27.22
2483.625	Average	42.52	-8.15	34.36	54.00	-19.64
2483.625	Peak	56.09	-8.15	47.94	74.00	-26.06

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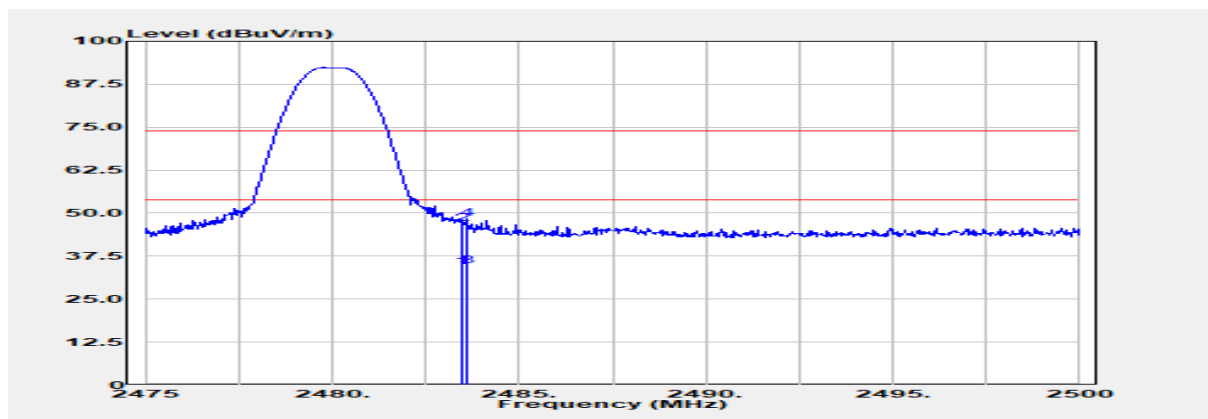
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Report Number :E2/2021/30017  
Operation Mode :BLE 1M  
Test Frequency :2480 MHz  
Test Mode :BE CH HIGH  
EUT Pol :E2 Plane  
Ant :NO.4 Dipole

Test Site :966 Chamber D  
Test Date :2021-07-19  
Temp./Humi. :20.3/65  
Antenna Pol. :Horizontal  
Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.500	Average	42.44	-8.15	34.28	54.00	-19.72
2483.500	Peak	55.12	-8.15	46.97	74.00	-27.03
2483.600	Average	42.62	-8.15	34.46	54.00	-19.54
2483.600	Peak	56.40	-8.15	48.25	74.00	-25.75

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## BLE 2M

Report Number :E2/2021/30017

Test Site :966 Chamber D

Operation Mode :BLE 2M

Test Date :2021-07-19

Test Frequency :2402 MHz

Temp./Humi. :20.3/65

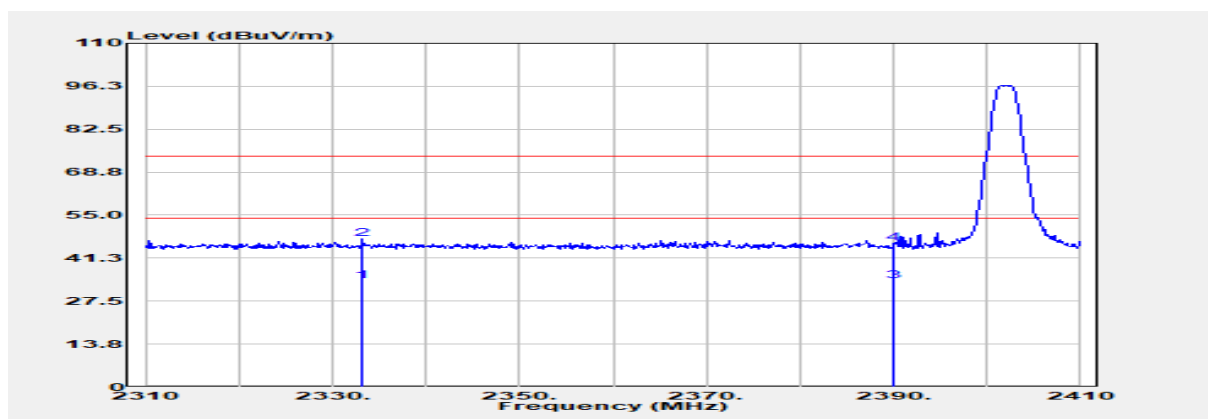
Test Mode :BE CH LOW

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Jack Tseng

Ant :NO.4 Dipole



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2333.200	Average	41.44	-7.63	33.81	54.00	-20.19
2333.200	Peak	54.96	-7.63	47.33	74.00	-26.67
2390.000	Average	41.67	-7.89	33.78	54.00	-20.22
2390.000	Peak	53.87	-7.89	45.98	74.00	-28.02

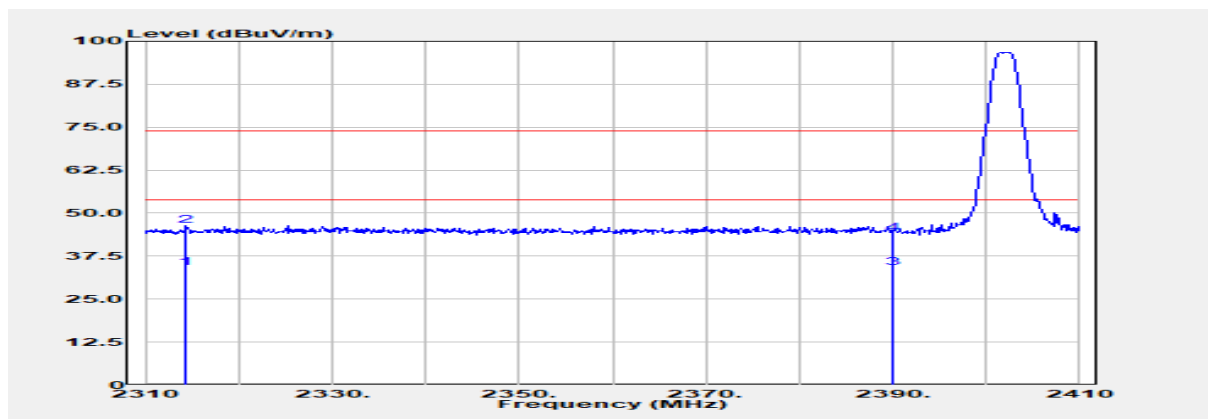
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Report Number :E2/2021/30017  
Operation Mode :BLE 2M  
Test Frequency :2402 MHz  
Test Mode :BE CH LOW  
EUT Pol :E2 Plane  
Ant :NO.4 Dipole

Test Site :966 Chamber D  
Test Date :2021-07-19  
Temp./Humi. :20.3/65  
Antenna Pol. :Horizontal  
Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2314.400	Average	41.79	-7.73	34.06	54.00	-19.94
2314.400	Peak	54.22	-7.73	46.49	74.00	-27.51
2390.000	Average	42.03	-7.89	34.14	54.00	-19.86
2390.000	Peak	52.00	-7.89	44.11	74.00	-29.89

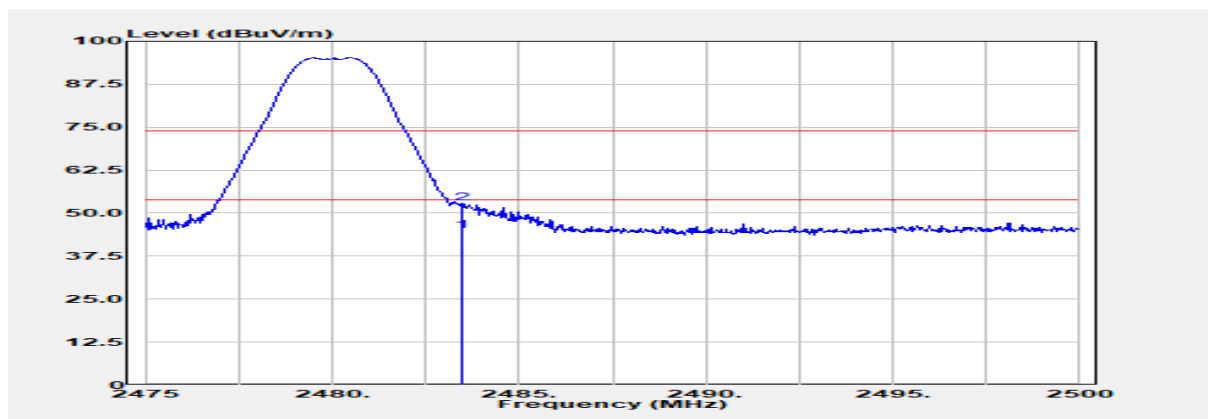
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Report Number :E2/2021/30017  
 Operation Mode :BLE 2M  
 Test Frequency :2480 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :E2 Plane  
 Ant :NO.4 Dipole

Test Site :966 Chamber D  
 Test Date :2021-07-19  
 Temp./Humi. :20.3/65  
 Antenna Pol. :Vertical  
 Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2483.500	Average	52.98	-8.15	44.83	54.00	-9.17
2483.500	Peak	61.00	-8.15	52.85	74.00	-21.15

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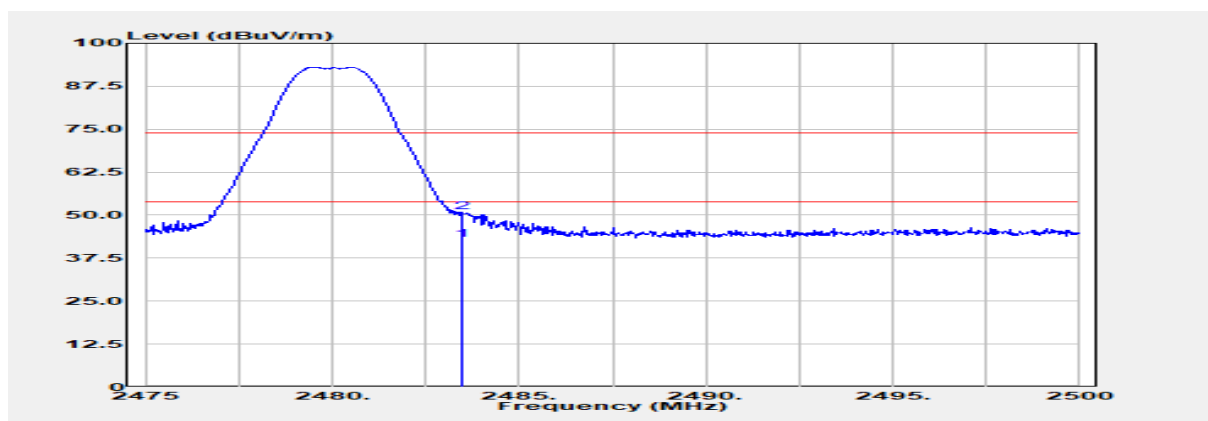
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Report Number :E2/2021/30017  
Operation Mode :BLE 2M  
Test Frequency :2480 MHz  
Test Mode :BE CH HIGH  
EUT Pol :E2 Plane  
Ant :NO.4 Dipole

Test Site :966 Chamber D  
Test Date :2021-07-19  
Temp./Humi. :20.3/65  
Antenna Pol. :Horizontal  
Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2483.500	Average	51.00	-8.15	42.85	54.00	-11.15
2483.500	Peak	58.96	-8.15	50.81	74.00	-23.19

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## 10.7.4 SANT-Monopole No.7

### BLE 1M

Report Number :E2/2021/30017

Test Site :966 Chamber D

Operation Mode :BLE 1M

Test Date :2021-07-19

Test Frequency :2402 MHz

Temp./Humi. :20.3/65

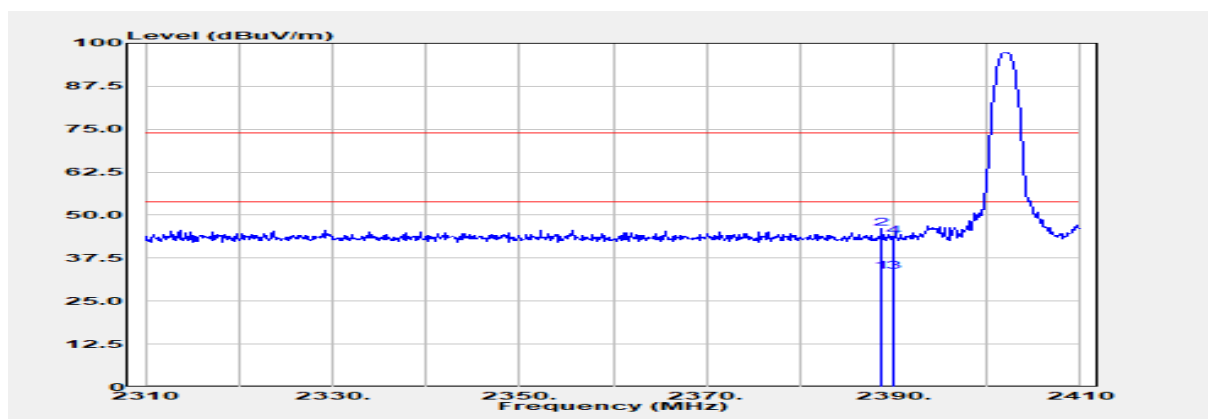
Test Mode :BE CH LOW

Antenna Pol. :Vertical

EUT Pol :E1 Plane

Engineer :Jack Tseng

Ant :NO.7 Monopole



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2388.800	Average	41.45	-7.85	33.60	54.00	-20.40
2388.800	Peak	54.01	-7.85	46.16	74.00	-27.84
2390.000	Average	41.58	-7.89	33.69	54.00	-20.31
2390.000	Peak	51.71	-7.89	43.82	74.00	-30.18

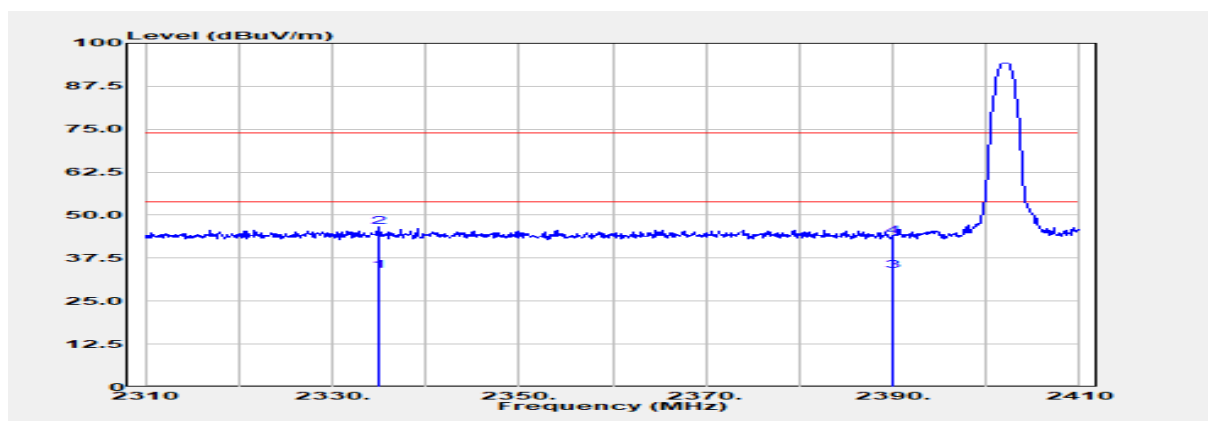
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Report Number :E2/2021/30017  
 Operation Mode :BLE 1M  
 Test Frequency :2402 MHz  
 Test Mode :BE CH LOW  
 EUT Pol :E1 Plane  
 Ant :NO.7 Monopole

Test Site :966 Chamber D  
 Test Date :2021-07-19  
 Temp./Humi. :20.3/65  
 Antenna Pol. :Horizontal  
 Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d $\mu$ V	Factor dB	Actual FS d $\mu$ V/m	Limit @3m d $\mu$ V/m	Margin dB
2335.100	Average	41.45	-7.63	33.83	54.00	-20.17
2335.100	Peak	54.22	-7.63	46.59	74.00	-27.41
2390.000	Average	41.74	-7.89	33.85	54.00	-20.15
2390.000	Peak	51.86	-7.89	43.97	74.00	-30.03

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Report Number :E2/2021/30017

Test Site :966 Chamber D

Operation Mode :BLE 1M

Test Date :2021-07-19

Test Frequency :2480 MHz

Temp./Humi. :20.3/65

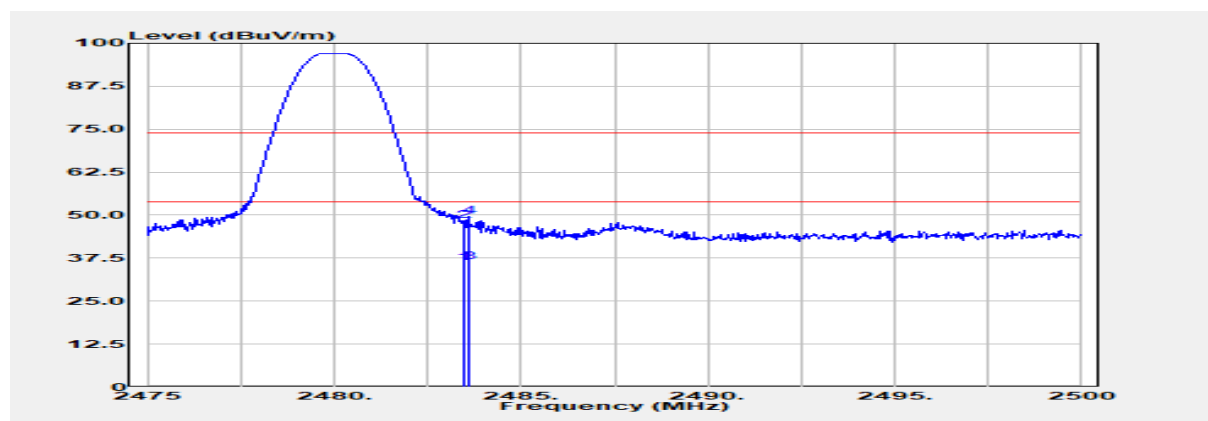
Test Mode :BE CH HIGH

Antenna Pol. :Vertical

EUT Pol :E1 Plane

Engineer :Jack Tseng

Ant :NO.7 Monopole



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2483.500	Average	44.17	-8.15	36.02	54.00	-17.98
2483.500	Peak	56.41	-8.15	48.26	74.00	-25.74
2483.575	Average	44.48	-8.15	36.32	54.00	-17.68
2483.575	Peak	57.67	-8.15	49.52	74.00	-24.48

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Report Number :E2/2021/30017

Test Site :966 Chamber D

Operation Mode :BLE 1M

Test Date :2021-07-19

Test Frequency :2480 MHz

Temp./Humi. :20.3/65

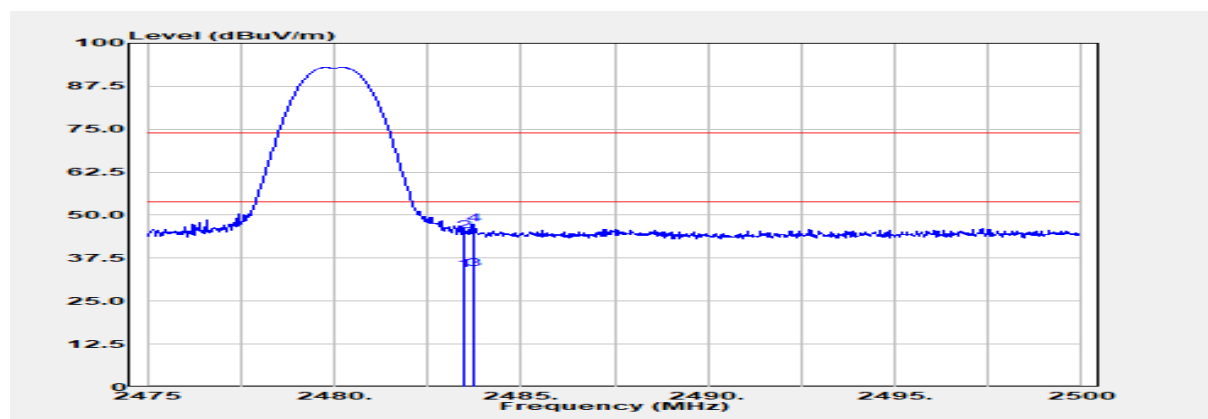
Test Mode :BE CH HIGH

Antenna Pol. :Horizontal

EUT Pol :E1 Plane

Engineer :Jack Tseng

Ant :NO.7 Monopole



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2483.500	Average	42.26	-8.15	34.11	54.00	-19.89
2483.500	Peak	53.46	-8.15	45.30	74.00	-28.70
2483.750	Average	42.44	-8.15	34.29	54.00	-19.71
2483.750	Peak	55.60	-8.15	47.44	74.00	-26.56

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## BLE 2M

Report Number :E2/2021/30017

Test Site :966 Chamber D

Operation Mode :BLE 2M

Test Date :2021-07-19

Test Frequency :2402 MHz

Temp./Humi. :20.3/65

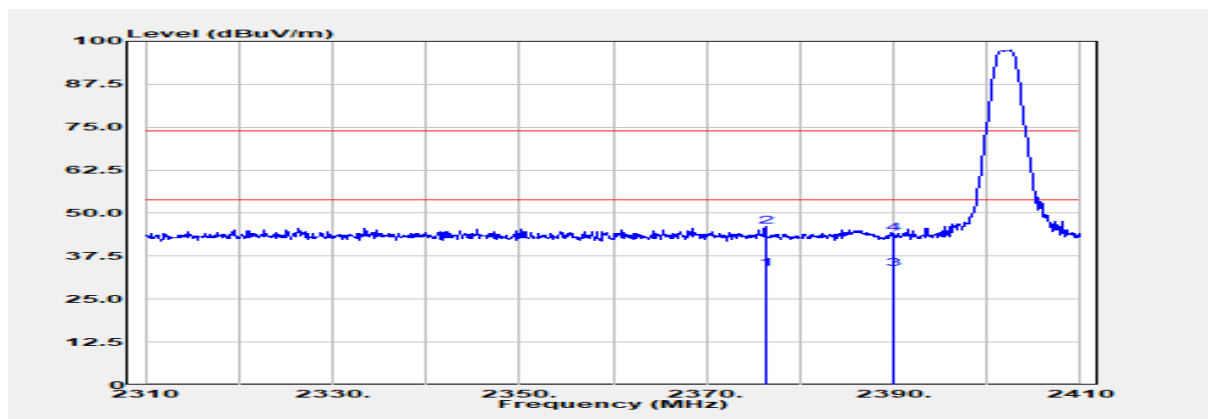
Test Mode :BE CH LOW

Antenna Pol. :Vertical

EUT Pol :E1 Plane

Engineer :Jack Tseng

Ant :NO.7 Monopole



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2376.400	Average	41.31	-7.59	33.72	54.00	-20.28
2376.400	Peak	53.71	-7.59	46.12	74.00	-27.88
2390.000	Average	41.75	-7.89	33.87	54.00	-20.13
2390.000	Peak	51.89	-7.89	44.00	74.00	-30.00

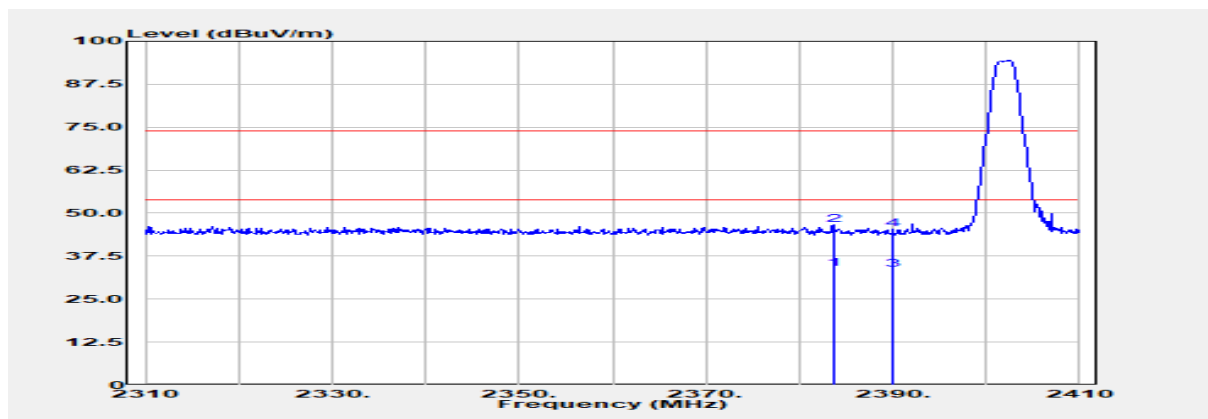
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Report Number :E2/2021/30017  
 Operation Mode :BLE 2M  
 Test Frequency :2402 MHz  
 Test Mode :BE CH LOW  
 EUT Pol :E1 Plane  
 Ant :NO.7 Monopole

Test Site :966 Chamber D  
 Test Date :2021-07-19  
 Temp./Humi. :20.3/65  
 Antenna Pol. :Horizontal  
 Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2383.600	Average	41.49	-7.69	33.80	54.00	-20.20
2383.600	Peak	54.27	-7.69	46.57	74.00	-27.43
2390.000	Average	41.48	-7.89	33.59	54.00	-20.41
2390.000	Peak	53.33	-7.89	45.44	74.00	-28.56

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Report Number :E2/2021/30017

Test Site :966 Chamber D

Operation Mode :BLE 2M

Test Date :2021-07-19

Test Frequency :2480 MHz

Temp./Humi. :20.3/65

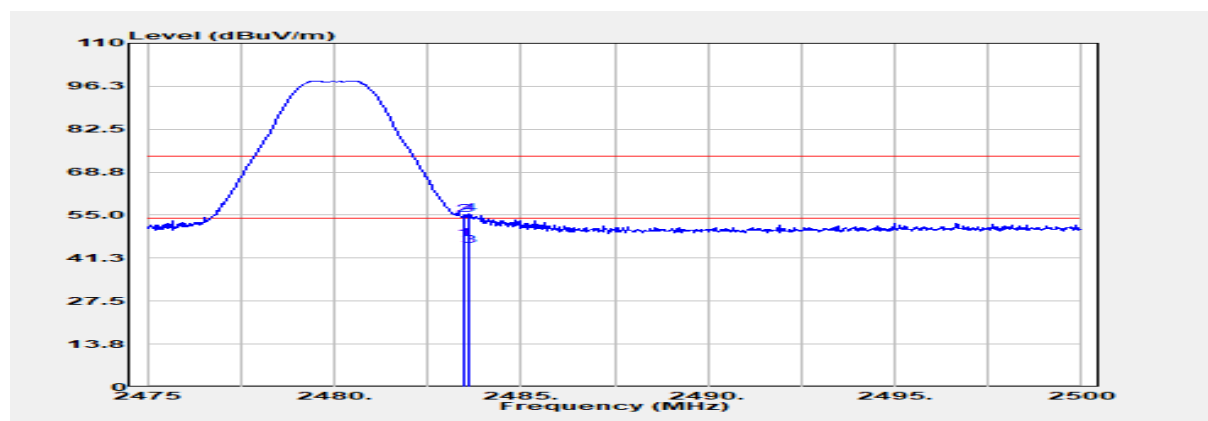
Test Mode :BE CH HIGH

Antenna Pol. :Vertical

EUT Pol :E1 Plane

Engineer :Jack Tseng

Ant :NO.7 Monopole



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2483.500	Average	55.67	-8.15	47.52	54.00	-6.48
2483.500	Peak	63.40	-8.15	55.24	74.00	-18.76
2483.625	Average	53.35	-8.15	45.20	54.00	-8.80
2483.625	Peak	63.69	-8.15	55.54	74.00	-18.46

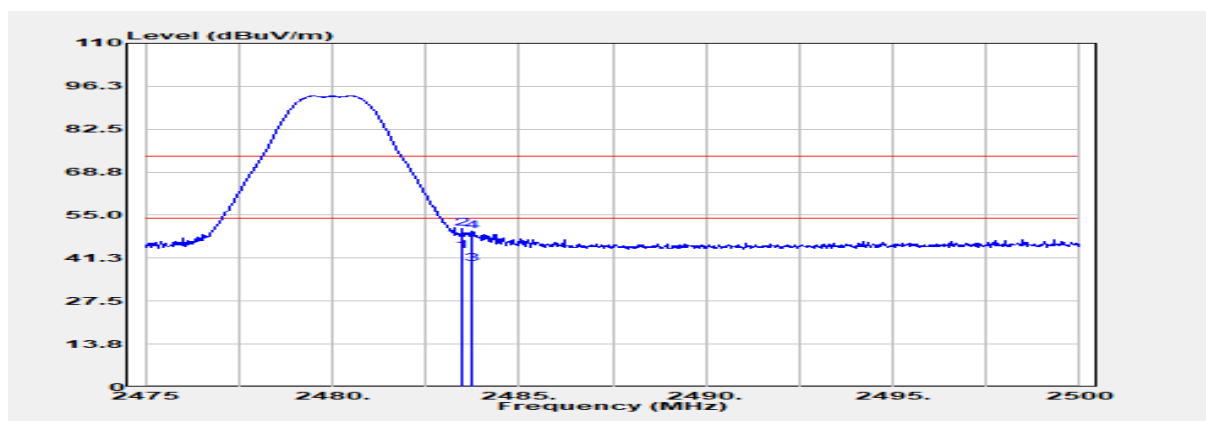
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Report Number :E2/2021/30017  
 Operation Mode :BLE 2M  
 Test Frequency :2480 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :E1 Plane  
 Ant :NO.7 Monopole

Test Site :966 Chamber D  
 Test Date :2021-07-19  
 Temp./Humi. :20.3/65  
 Antenna Pol. :Horizontal  
 Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2483.500	Average	51.82	-8.15	43.67	54.00	-10.33
2483.500	Peak	58.79	-8.15	50.64	74.00	-23.36
2483.725	Average	47.58	-8.15	39.43	54.00	-14.57
2483.725	Peak	57.95	-8.15	49.80	74.00	-24.20

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## 10.7.5 Radiated Spurious Emission from 30MHz to 1000MHz

### 10.7.6 DANT-Dipole Ant No.5

#### BLE 1M

Report Number :E2/2021/30017

Test Site :SAC D

Operation Mode :BLE 1M

Test Date :2021-08-03

Test Frequency :2442 MHz

Temp./Humi. :21.5/65

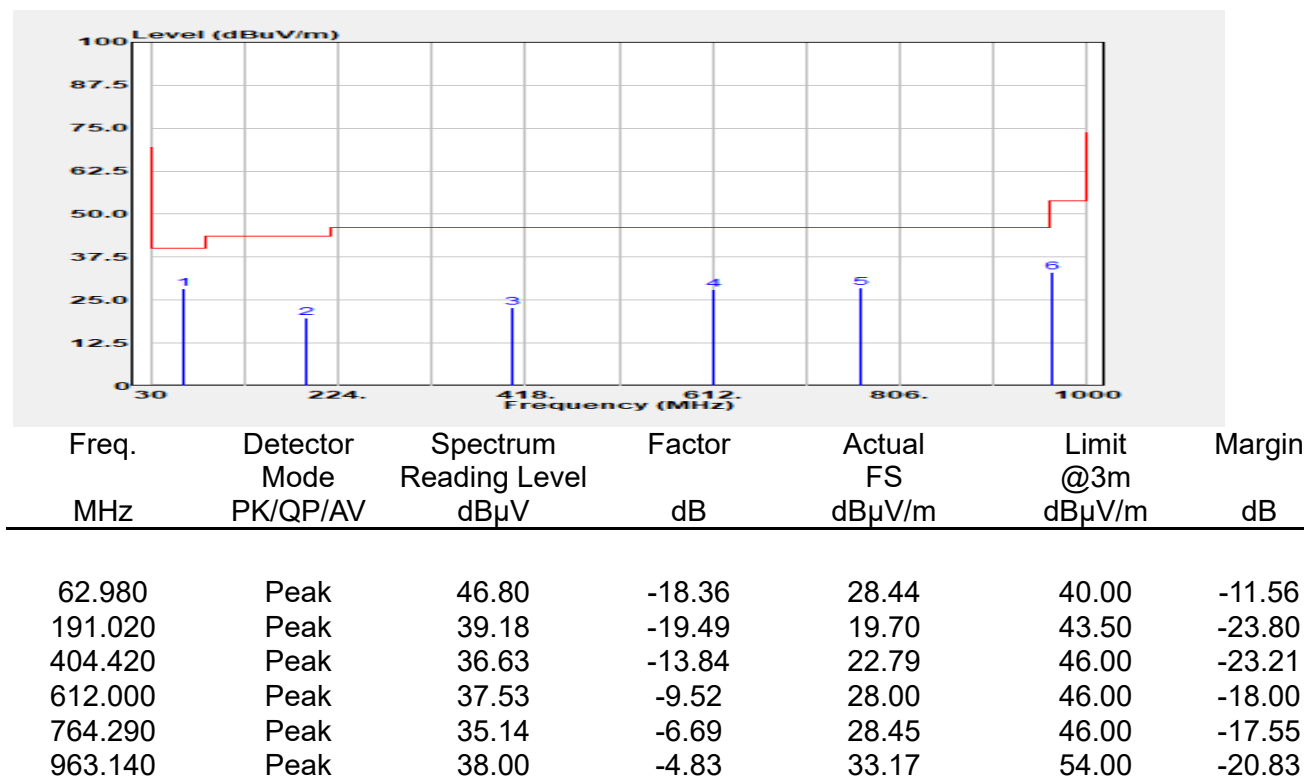
Test Mode :TX CH MID

Antenna Pol. :Vertical

EUT Pol :E1 Plan

Engineer :Andy Wang

Note :NO.5



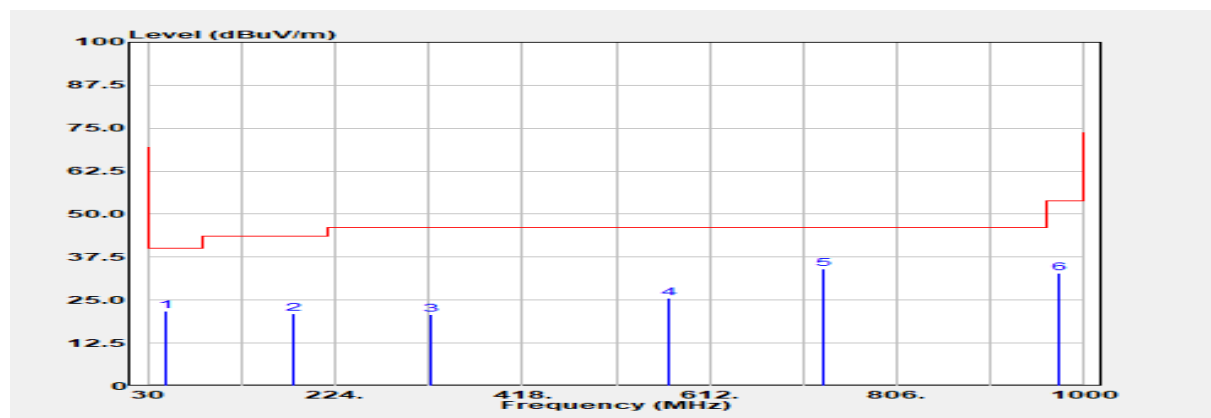
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Report Number :E2/2021/30017  
 Operation Mode :BLE 1M  
 Test Frequency :2442 MHz  
 Test Mode :TX CH MID  
 EUT Pol :E1 Plan  
 Note :NO.5

Test Site :SAC D  
 Test Date :2021-08-03  
 Temp./Humi. :21.5/65  
 Antenna Pol. :Horizontal  
 Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
49.400	Peak	39.48	-17.68	21.79	40.00	-18.21
181.320	Peak	39.23	-18.09	21.14	43.50	-22.36
323.910	Peak	35.92	-15.20	20.71	46.00	-25.29
569.320	Peak	35.97	-10.40	25.57	46.00	-20.43
730.340	Peak	41.34	-7.27	34.06	46.00	-11.94
974.780	Peak	37.17	-4.38	32.79	54.00	-21.21

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## BLE2M

Report Number :E2/2021/30017

Test Site :SAC D

Operation Mode :BLE 2M

Test Date :2021-08-04

Test Frequency :2442 MHz

Temp./Humi. :21.5/65

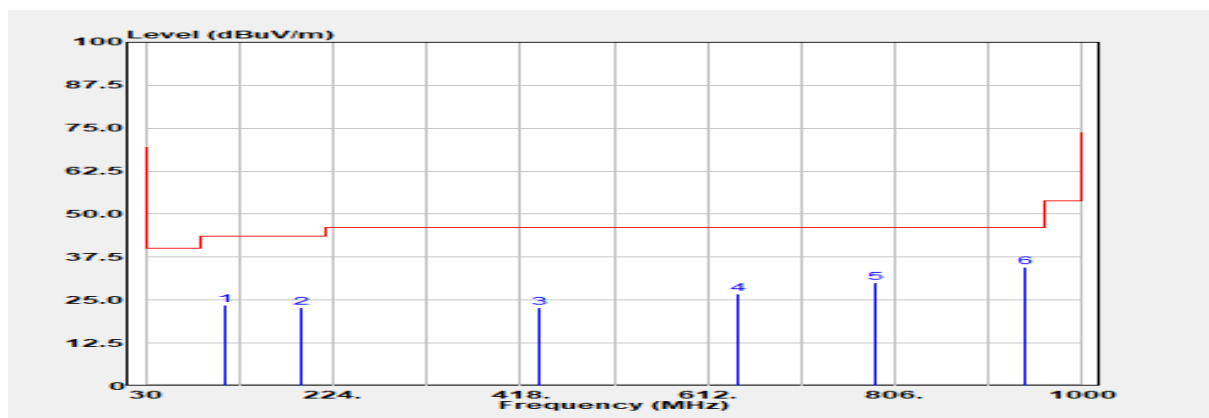
Test Mode :TX CH MID

Antenna Pol. :Vertical

EUT Pol :E1 Plan

Engineer :Andy Wang

Note :NO.5



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
111.480	Peak	43.55	-20.11	23.44	43.50	-20.06
191.990	Peak	42.39	-19.58	22.80	43.50	-20.70
437.400	Peak	35.55	-12.63	22.92	46.00	-23.08
644.010	Peak	35.56	-8.63	26.94	46.00	-19.06
785.630	Peak	37.22	-7.02	30.20	46.00	-15.80
940.830	Peak	39.56	-4.91	34.65	46.00	-11.35

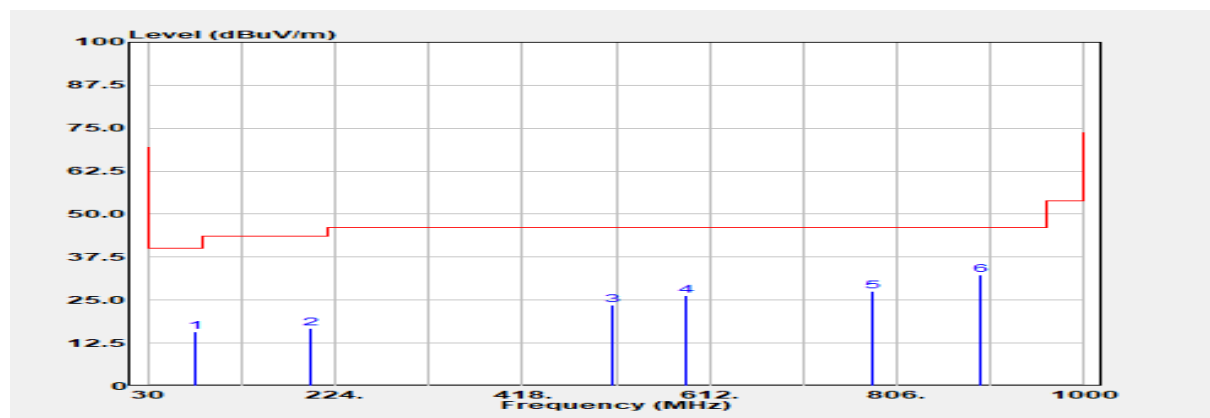
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Report Number :E2/2021/30017  
 Operation Mode :BLE 2M  
 Test Frequency :2442 MHz  
 Test Mode :TX CH MID  
 EUT Pol :E1 Plan  
 Note :NO.5

Test Site :SAC D  
 Test Date :2021-08-03  
 Temp./Humi. :21.5/65  
 Antenna Pol. :Horizontal  
 Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
79.470	Peak	37.24	-21.42	15.82	40.00	-24.18
198.780	Peak	36.73	-19.95	16.77	43.50	-26.73
510.150	Peak	34.45	-10.99	23.46	46.00	-22.54
586.780	Peak	36.69	-10.40	26.29	46.00	-19.71
781.750	Peak	34.80	-7.15	27.65	46.00	-18.35
891.360	Peak	38.37	-5.97	32.40	46.00	-13.60

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## BLE2M

Report Number :E2/2021/30017

Test Site :SAC D

Operation Mode :BLE 2M

Test Date :2021-08-04

Test Frequency :2402 MHz

Temp./Humi. :21.7/65

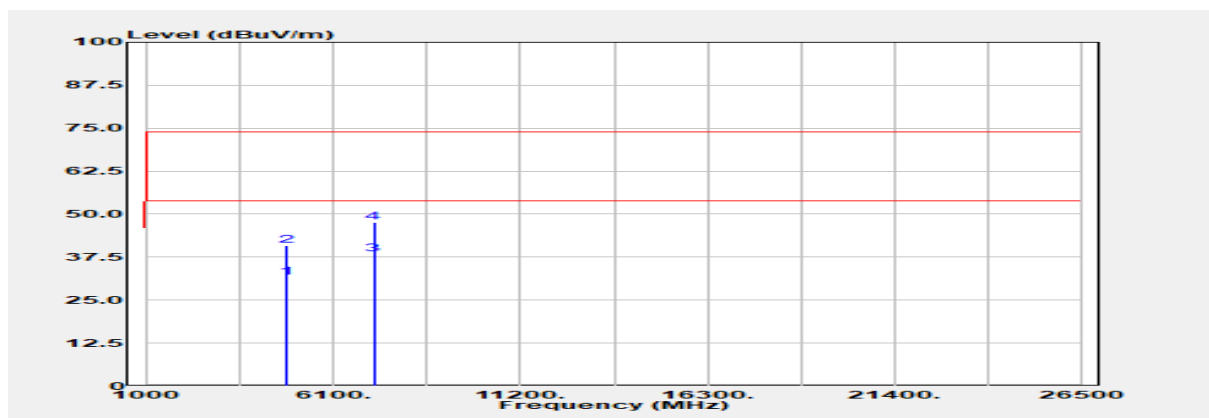
Test Mode :TX CH LOW

Antenna Pol. :Vertical

EUT Pol :E1 Plan

Engineer :Andy Wang

Note :NO.5



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4804.000	Average	34.55	-3.04	31.51	54.00	-22.49
4804.000	Peak	43.91	-3.04	40.86	74.00	-33.14
7206.000	Average	35.47	2.98	38.45	54.00	-15.55
7206.000	Peak	44.69	2.98	47.67	74.00	-26.33

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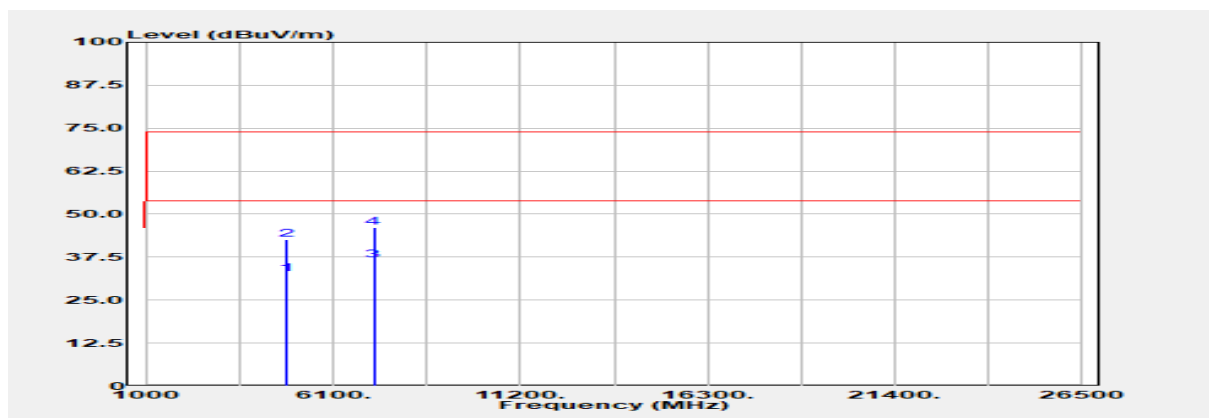
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Report Number :E2/2021/30017  
Operation Mode :BLE 2M  
Test Frequency :2402 MHz  
Test Mode :TX CH LOW  
EUT Pol :E1 Plan  
Note :NO.5

Test Site :SAC D  
Test Date :2021-08-04  
Temp./Humi. :21.7/65  
Antenna Pol. :Horizontal  
Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4804.000	Average	35.52	-3.04	32.48	54.00	-21.52
4804.000	Peak	45.66	-3.04	42.62	74.00	-31.38
7206.000	Average	33.63	2.98	36.61	54.00	-17.39
7206.000	Peak	43.22	2.98	46.20	74.00	-27.80

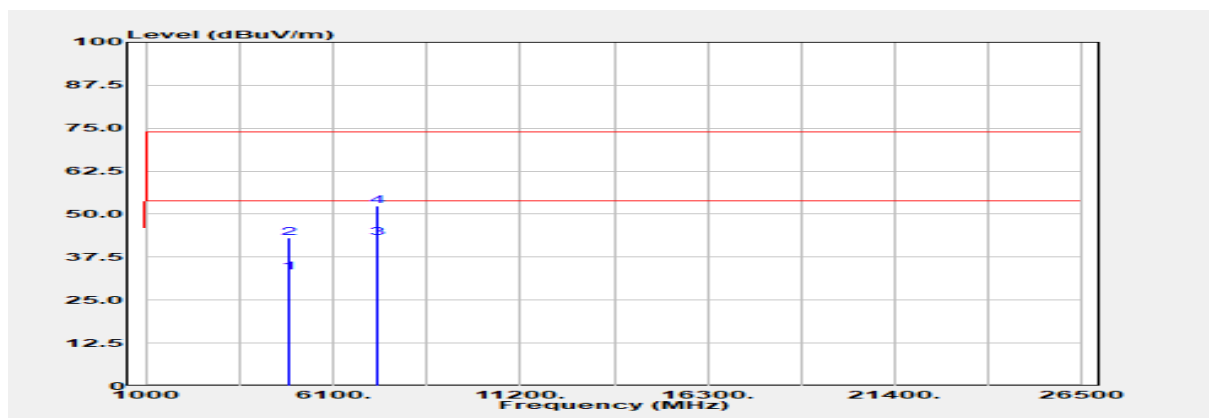
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Report Number :E2/2021/30017  
 Operation Mode :BLE 2M  
 Test Frequency :2442 MHz  
 Test Mode :TX CH MID  
 EUT Pol :E1 Plan  
 Note :NO.5

Test Site :SAC D  
 Test Date :2021-08-04  
 Temp./Humi. :21.7/65  
 Antenna Pol. :Vertical  
 Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4884.000	Average	36.24	-3.20	33.04	54.00	-20.96
4884.000	Peak	46.43	-3.20	43.23	74.00	-30.77
7326.000	Average	39.88	3.24	43.12	54.00	-10.88
7326.000	Peak	49.12	3.24	52.37	74.00	-21.63

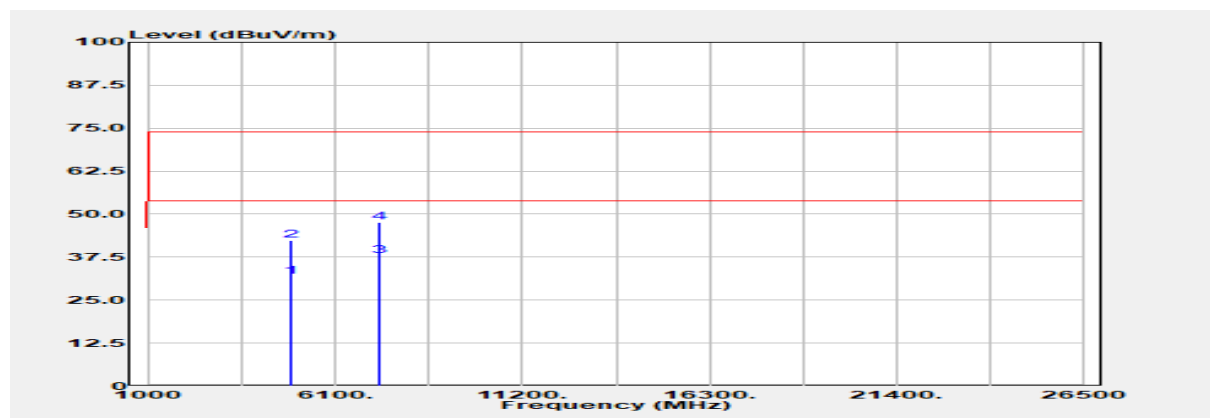
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Report Number :E2/2021/30017  
Operation Mode :BLE 2M  
Test Frequency :2442 MHz  
Test Mode :TX CH MID  
EUT Pol :E1 Plan  
Note :NO.5

Test Site :SAC D  
Test Date :2021-08-04  
Temp./Humi. : 21.7/65  
Antenna Pol. :Horizontal  
Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4884.000	Average	35.06	-3.20	31.86	54.00	-22.14
4884.000	Peak	45.56	-3.20	42.36	74.00	-31.64
7326.000	Average	34.52	3.24	37.76	54.00	-16.24
7326.000	Peak	44.42	3.24	47.66	74.00	-26.34

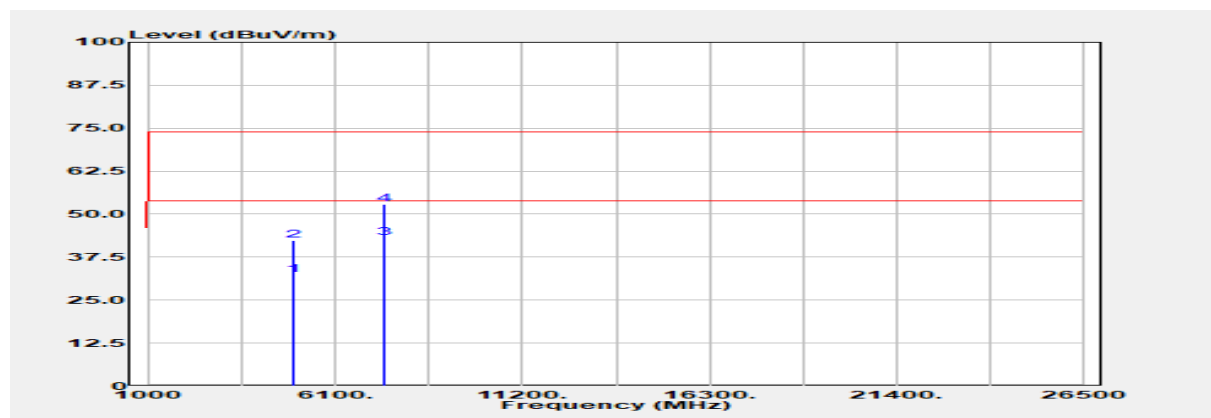
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Report Number :E2/2021/30017  
Operation Mode :BLE 2M  
Test Frequency :2480 MHz  
Test Mode :TX CH HIGH  
EUT Pol :E1 Plan  
Note :NO.5

Test Site :SAC D  
Test Date :2021-08-04  
Temp./Humi. : 21.7/65  
Antenna Pol. :Vertical  
Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4960.000	Average	35.18	-2.87	32.31	54.00	-21.69
4960.000	Peak	45.14	-2.87	42.26	74.00	-31.74
7440.000	Average	39.35	3.85	43.20	54.00	-10.80
7440.000	Peak	49.06	3.85	52.91	74.00	-21.09

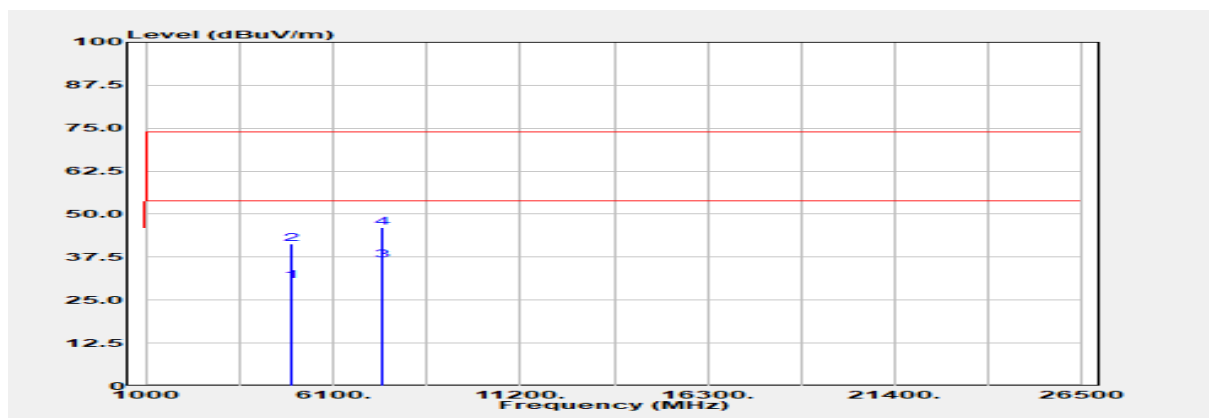
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Report Number :E2/2021/30017  
Operation Mode :BLE 2M  
Test Frequency :2480 MHz  
Test Mode :TX CH HIGH  
EUT Pol :E1 Plan  
Note :NO.5

Test Site :SAC D  
Test Date :2021-08-04  
Temp./Humi. : 21.7/65  
Antenna Pol. :Horizontal  
Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4960.000	Average	33.39	-2.87	30.51	54.00	-23.49
4960.000	Peak	44.14	-2.87	41.26	74.00	-32.74
7440.000	Average	32.74	3.85	36.59	54.00	-17.41
7440.000	Peak	42.31	3.85	46.16	74.00	-27.84

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### 10.7.7 SANT-Dipole No.4

#### BLE 1M

Report Number :E2/2021/30017

Test Site :966 Chamber D

Operation Mode :BLE 1M

Test Date :2021-07-19

Test Frequency :2442 MHz

Temp./Humi. :23.5/60

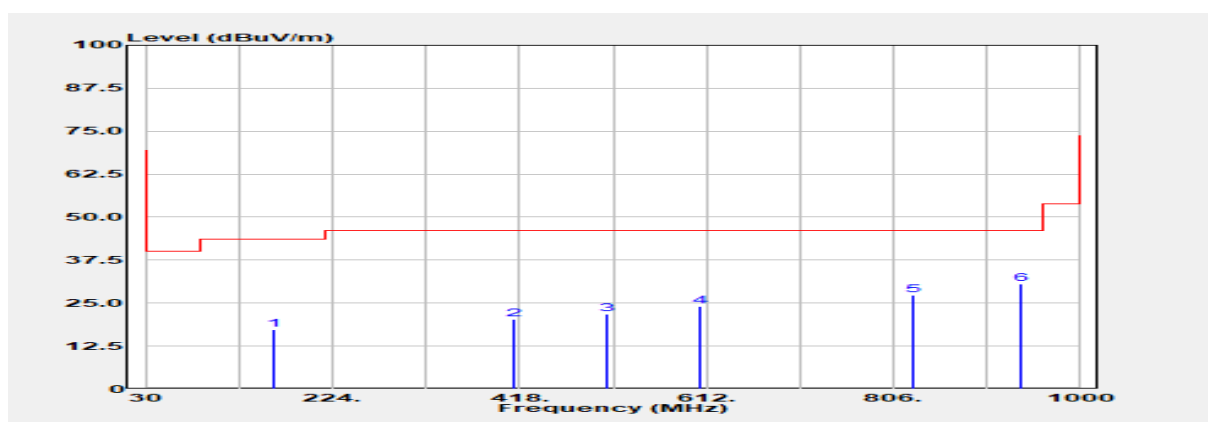
Test Mode :TX CH MID

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Jack Tseng

Ant :NO.4 Dipole



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
161.920	Peak	34.35	-17.03	17.32	43.50	-26.18
411.210	Peak	33.64	-13.47	20.18	46.00	-25.82
509.180	Peak	32.91	-11.09	21.82	46.00	-24.18
605.210	Peak	32.80	-8.71	24.09	46.00	-21.91
825.400	Peak	34.05	-6.74	27.31	46.00	-18.69
937.920	Peak	35.66	-5.04	30.63	46.00	-15.37

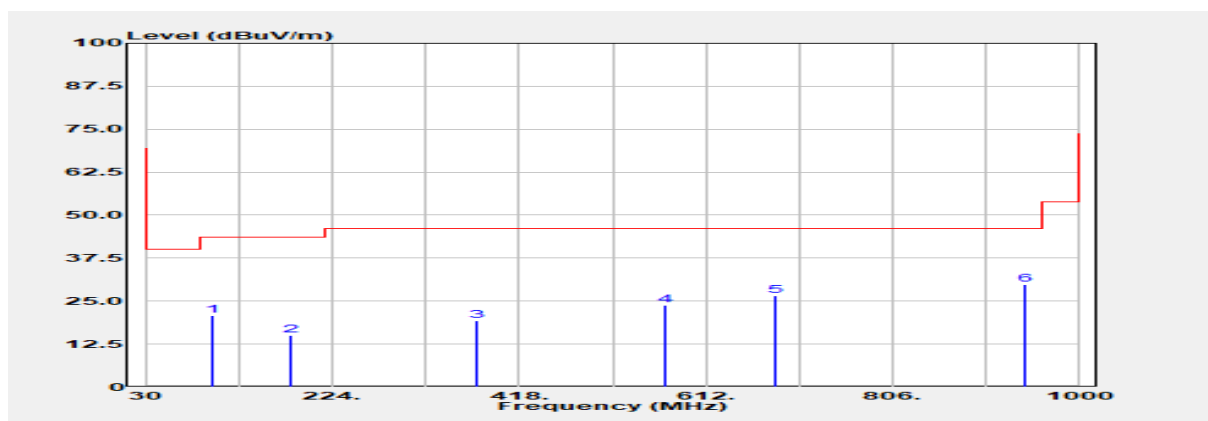
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Report Number :E2/2021/30017  
 Operation Mode :BLE 1M  
 Test Frequency :2442 MHz  
 Test Mode :TX CH MID  
 EUT Pol :E2 Plane  
 Ant :NO.4 Dipole

Test Site :966 Chamber D  
 Test Date :2021-07-19  
 Temp./Humi. :23.5/60  
 Antenna Pol. :Horizontal  
 Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
98.870	Peak	43.08	-22.39	20.69	43.50	-22.81
181.320	Peak	33.05	-18.09	14.96	43.50	-28.54
373.380	Peak	33.83	-14.57	19.26	46.00	-26.74
570.290	Peak	34.18	-10.44	23.73	46.00	-22.27
684.750	Peak	34.51	-7.85	26.66	46.00	-19.34
942.770	Peak	34.76	-4.84	29.93	46.00	-16.07

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## BLE2M

Report Number :E2/2021/30017

Test Site :966 Chamber D

Operation Mode :BLE 2M

Test Date :2021-07-19

Test Frequency :2442 MHz

Temp./Humi. :23.5/60

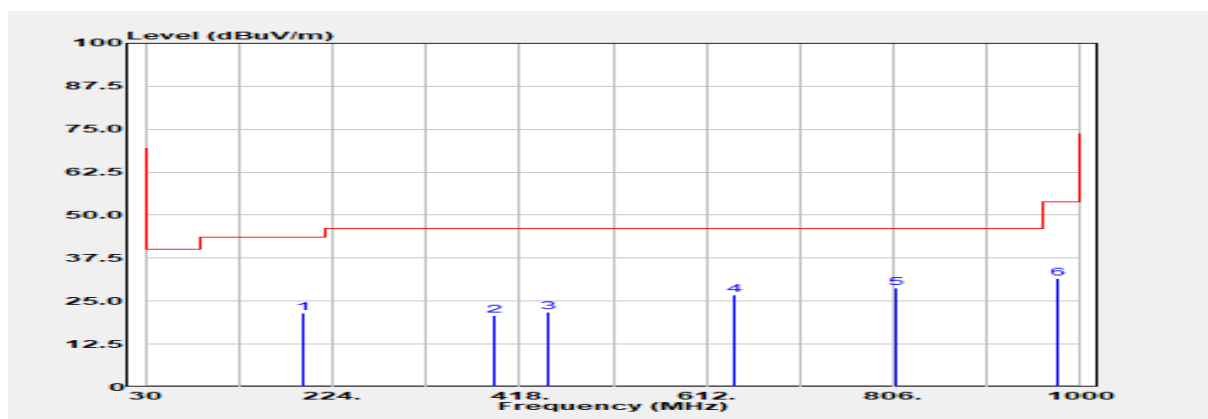
Test Mode :TX CH MID

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Jack Tseng

Ant :NO.4 Dipole



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
192.960	Peak	41.14	-19.58	21.55	43.50	-21.95
390.840	Peak	34.75	-13.89	20.86	46.00	-25.14
448.070	Peak	34.24	-12.54	21.70	46.00	-24.30
641.100	Peak	35.11	-8.18	26.93	46.00	-19.07
807.940	Peak	35.51	-6.65	28.85	46.00	-17.15
975.750	Peak	36.06	-4.44	31.62	54.00	-22.38

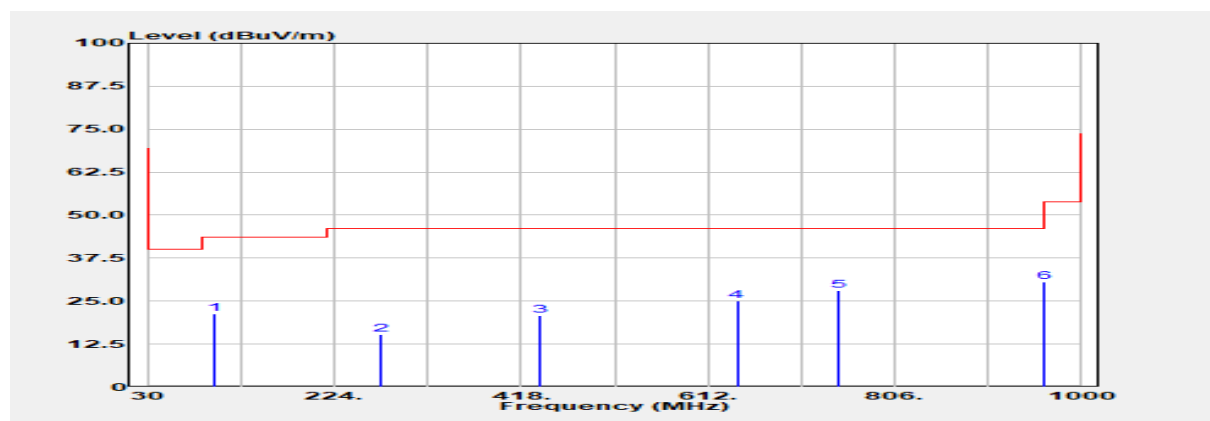
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Report Number :E2/2021/30017  
Operation Mode :BLE 2M  
Test Frequency :2442 MHz  
Test Mode :TX CH MID  
EUT Pol :E2 Plane  
Ant :NO.4 Dipole

Test Site :966 Chamber D  
Test Date :2021-07-19  
Temp./Humi. :23.5/60  
Antenna Pol. :Horizontal  
Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
98.870	Peak	43.67	-22.39	21.28	43.50	-22.22
271.530	Peak	32.43	-17.07	15.36	46.00	-30.64
436.430	Peak	33.58	-12.65	20.92	46.00	-25.08
642.070	Peak	33.50	-8.33	25.18	46.00	-20.82
746.830	Peak	35.89	-7.93	27.96	46.00	-18.04
962.170	Peak	35.43	-4.85	30.59	54.00	-23.41

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## 10.7.8 SANT-Monopole No.7

### BLE1M

Report Number :E2/2021/30017

Test Site :966 Chamber D

Operation Mode :BLE 1M

Test Date :2021-07-19

Test Frequency :2442 MHz

Temp./Humi. :23.5/60

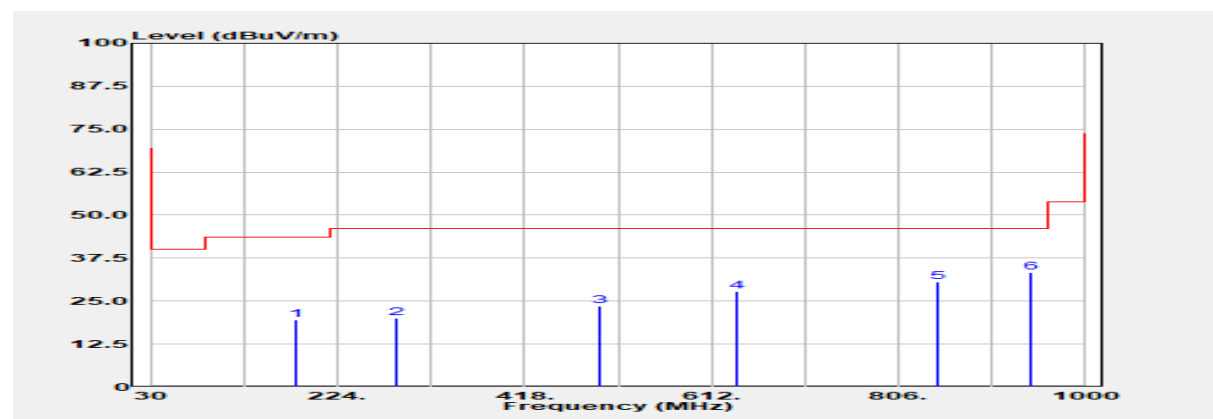
Test Mode :TX CH MID

Antenna Pol. :Vertical

EUT Pol :E1 Plan

Engineer :Jack Tseng

Ant :NO.7 Monopole



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
180.350	Peak	37.31	-17.81	19.49	43.50	-24.01
286.080	Peak	36.61	-16.54	20.07	46.00	-25.93
495.600	Peak	35.82	-12.27	23.55	46.00	-22.45
639.160	Peak	35.81	-8.11	27.70	46.00	-18.30
846.740	Peak	36.96	-6.40	30.56	46.00	-15.44
942.770	Peak	38.10	-4.84	33.26	46.00	-12.74

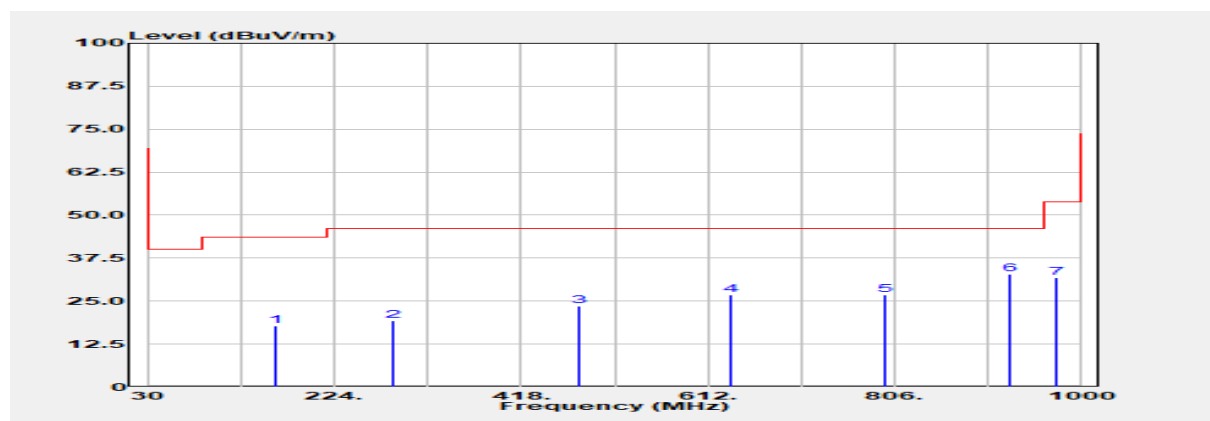
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Report Number :E2/2021/30017  
Operation Mode :BLE 1M  
Test Frequency :2442 MHz  
Test Mode :TX CH MID  
EUT Pol :E1 Plan  
Ant :NO.7 Monopole

Test Site :966 Chamber D  
Test Date :2021-07-19  
Temp./Humi. :23.5/60  
Antenna Pol. :Horizontal  
Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
161.920	Peak	34.91	-17.03	17.88	43.50	-25.62
285.110	Peak	35.93	-16.58	19.35	46.00	-26.65
478.140	Peak	35.22	-11.73	23.49	46.00	-22.51
636.250	Peak	35.18	-8.46	26.72	46.00	-19.28
795.330	Peak	33.53	-6.61	26.92	46.00	-19.08
924.340	Peak	37.98	-5.09	32.89	46.00	-13.11
974.780	Peak	36.17	-4.38	31.79	54.00	-22.21

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## BLE2M

Report Number :E2/2021/30017

Test Site :966 Chamber D

Operation Mode :BLE 2M

Test Date :2021-07-19

Test Frequency :2442 MHz

Temp./Humi. :23.5/60

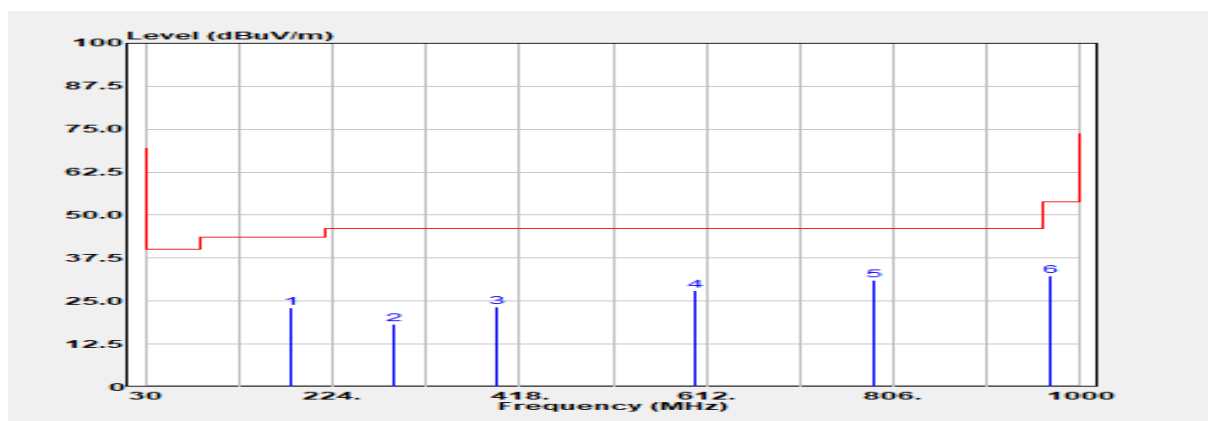
Test Mode :TX CH MID

Antenna Pol. :Vertical

EUT Pol :E1 Plan

Engineer :Jack Tseng

Ant :NO.7 Monopole



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
180.350	Peak	40.89	-17.81	23.08	43.50	-20.42
288.020	Peak	34.64	-16.46	18.19	46.00	-27.81
393.750	Peak	37.07	-13.86	23.21	46.00	-22.79
599.390	Peak	36.90	-8.89	28.02	46.00	-17.98
785.630	Peak	38.22	-7.02	31.20	46.00	-14.80
968.960	Peak	36.33	-4.04	32.30	54.00	-21.70

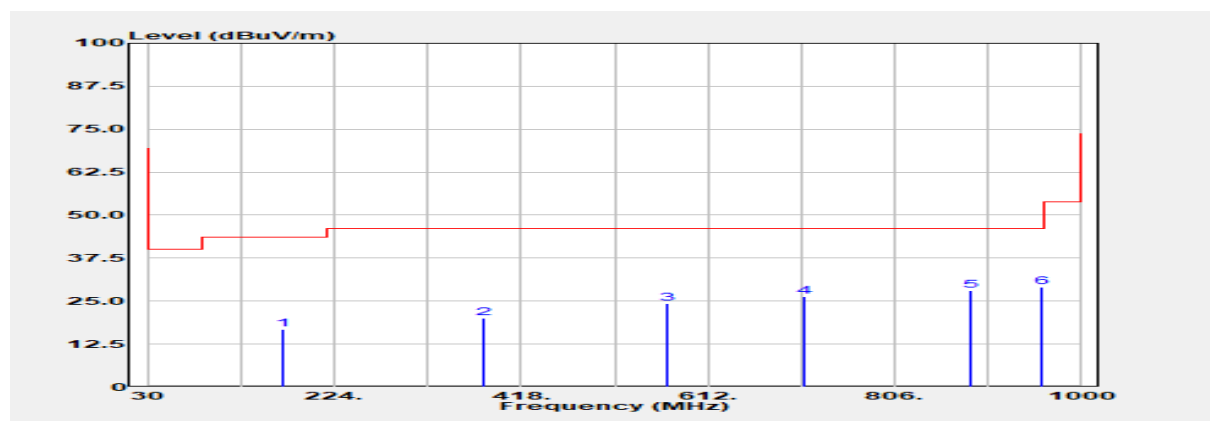
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Report Number :E2/2021/30017  
 Operation Mode :BLE 2M  
 Test Frequency :2442 MHz  
 Test Mode :TX CH MID  
 EUT Pol :E1 Plan  
 Ant :NO.7 Monopole

Test Site :966 Chamber D  
 Test Date :2021-07-19  
 Temp./Humi. :23.5/60  
 Antenna Pol. :Horizontal  
 Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
170.650	Peak	33.71	-16.93	16.78	43.50	-26.72
378.230	Peak	34.52	-14.37	20.15	46.00	-25.85
570.290	Peak	34.86	-10.44	24.42	46.00	-21.58
712.880	Peak	34.62	-8.28	26.34	46.00	-19.66
883.600	Peak	33.84	-5.68	28.16	46.00	-17.84
959.260	Peak	33.95	-4.90	29.05	46.00	-16.95

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## 10.7.9 Radiated Spurious Emission above 1GHz

### 10.7.10 DANT-Dipole Ant No.5

#### BLE1M

Report Number :E2/2021/30017

Test Site :SAC D

Operation Mode :BLE 1M

Test Date :2021-08-03

Test Frequency :2402 MHz

Temp./Humi. :21.5/65

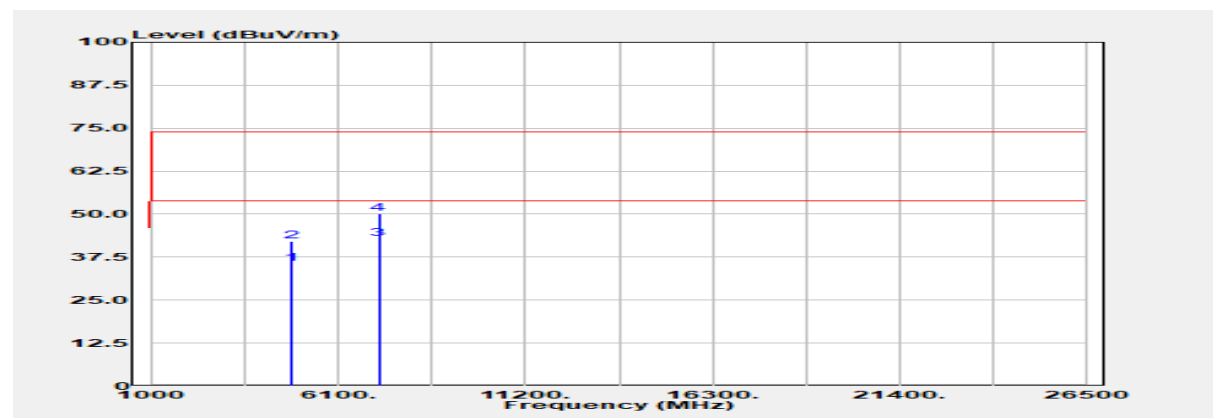
Test Mode :TX CH LOW

Antenna Pol. :Vertical

EUT Pol :E1 Plan

Engineer :Andy Wang

Note :NO.5



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4804.000	Average	38.62	-3.04	35.58	54.00	-18.42
4804.000	Peak	45.09	-3.04	42.05	74.00	-31.95
7206.000	Average	39.78	2.98	42.76	54.00	-11.24
7206.000	Peak	47.19	2.98	50.17	74.00	-23.83

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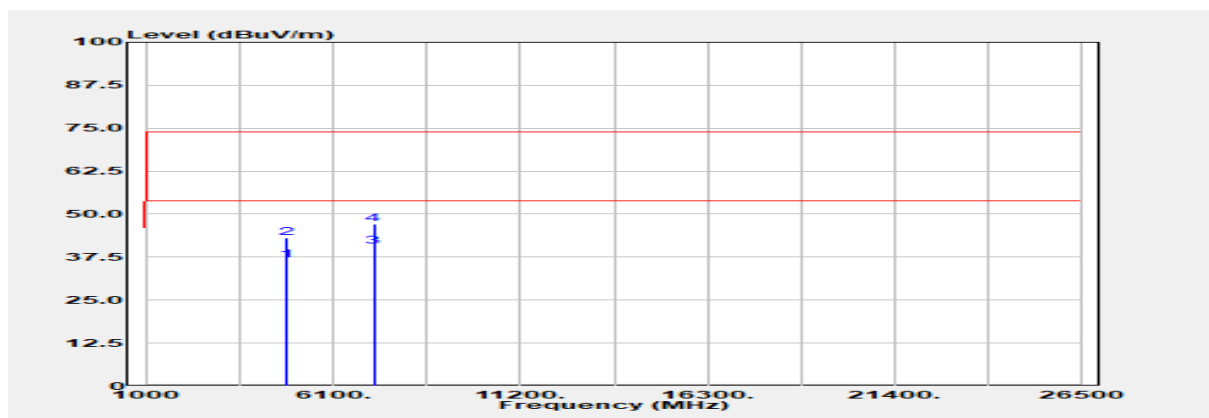
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Report Number :E2/2021/30017  
 Operation Mode :BLE 1M  
 Test Frequency :2402 MHz  
 Test Mode :TX CH LOW  
 EUT Pol :E1 Plan  
 Note :NO.5

Test Site :SAC D  
 Test Date :2021-08-03  
 Temp./Humi. :21.5/65  
 Antenna Pol. :Horizontal  
 Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4804.000	Average	39.61	-3.04	36.57	54.00	-17.43
4804.000	Peak	46.14	-3.04	43.10	74.00	-30.90
7206.000	Average	37.62	2.98	40.60	54.00	-13.40
7206.000	Peak	44.01	2.98	47.00	74.00	-27.00

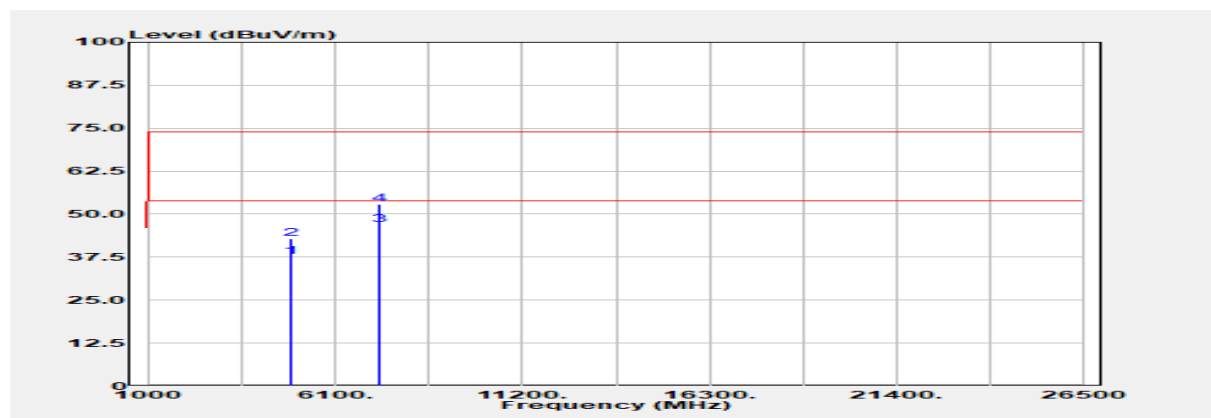
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Report Number :E2/2021/30017  
 Operation Mode :BLE 1M  
 Test Frequency :2442 MHz  
 Test Mode :TX CH MID  
 EUT Pol :E1 Plan  
 Note :NO.5

Test Site :SAC D  
 Test Date :2021-08-03  
 Temp./Humi. :21.5/65  
 Antenna Pol. :Vertical  
 Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4884.000	Average	40.90	-3.20	37.70	54.00	-16.30
4884.000	Peak	46.08	-3.20	42.88	74.00	-31.12
7326.000	Average	43.68	3.24	46.92	54.00	-7.08
7326.000	Peak	49.75	3.24	52.99	74.00	-21.01

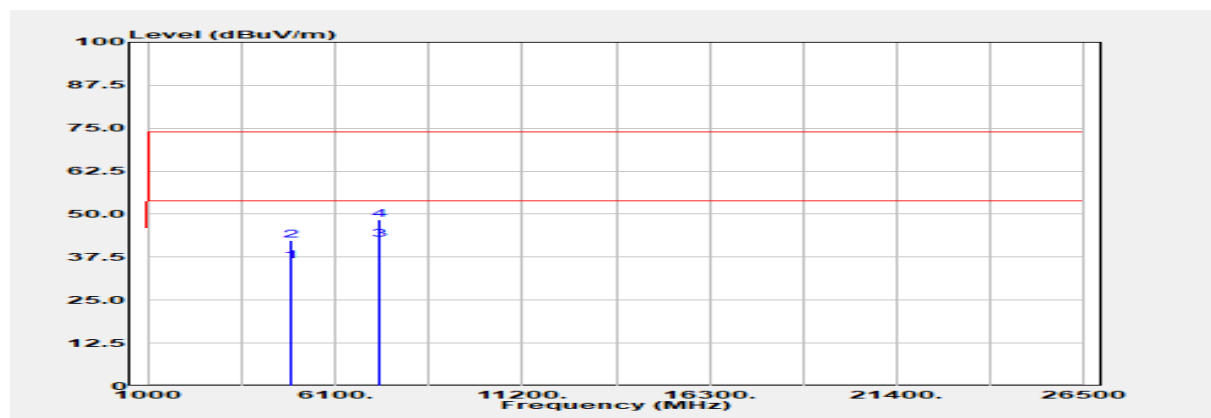
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Report Number :E2/2021/30017  
 Operation Mode :BLE 1M  
 Test Frequency :2442 MHz  
 Test Mode :TX CH MID  
 EUT Pol :E1 Plan  
 Note :NO.5

Test Site :SAC D  
 Test Date :2021-08-03  
 Temp./Humi. :21.5/65  
 Antenna Pol. :Horizontal  
 Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4884.000	Average	39.56	-3.20	36.35	54.00	-17.65
4884.000	Peak	45.58	-3.20	42.38	74.00	-31.62
7326.000	Average	39.27	3.24	42.51	54.00	-11.49
7326.000	Peak	45.11	3.24	48.35	74.00	-25.65

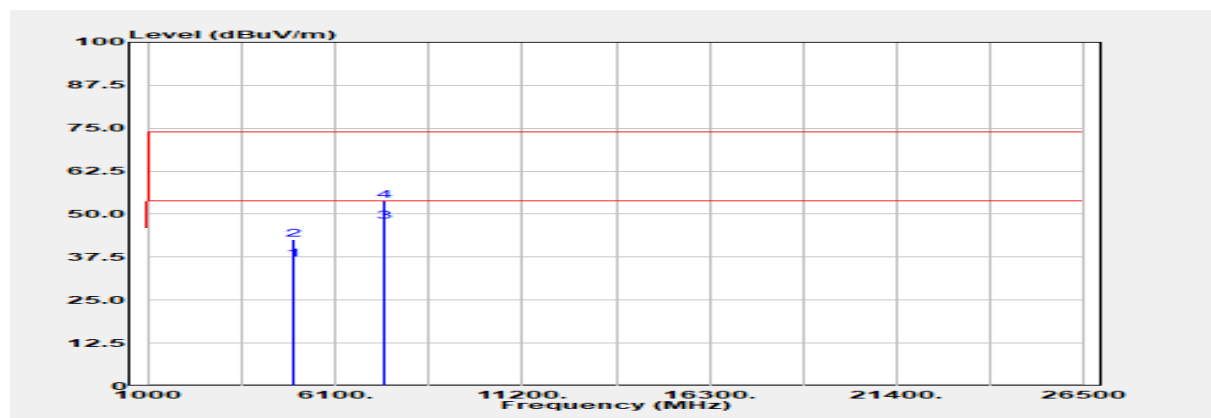
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Report Number :E2/2021/30017  
 Operation Mode :BLE 1M  
 Test Frequency :2480 MHz  
 Test Mode :TX CH HIGH  
 EUT Pol :E1 Plan  
 Note :NO.5

Test Site :SAC D  
 Test Date :2021-08-03  
 Temp./Humi. :21.5/65  
 Antenna Pol. :Vertical  
 Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4960.000	Average	39.78	-2.87	36.91	54.00	-17.09
4960.000	Peak	45.38	-2.87	42.50	74.00	-31.50
7440.000	Average	44.11	3.85	47.96	54.00	-6.04
7440.000	Peak	50.15	3.85	54.00	74.00	-20.00

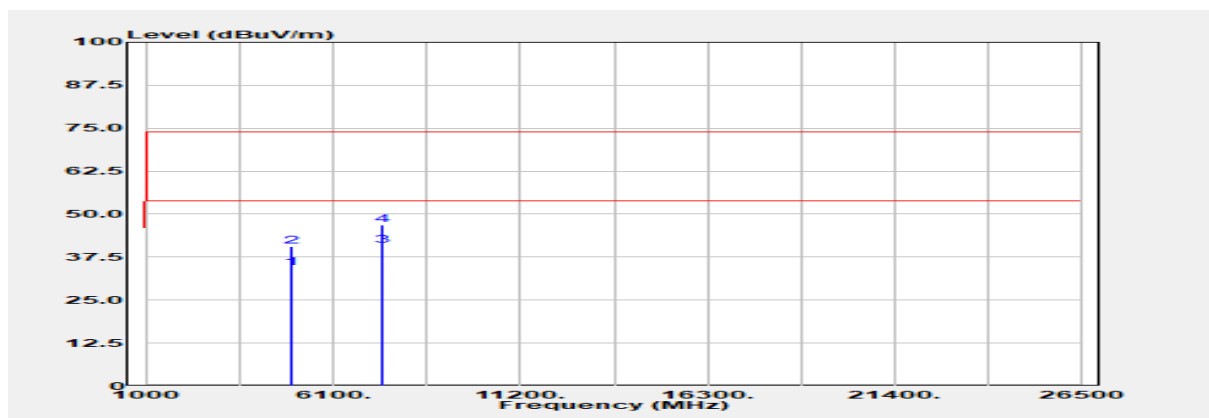
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Report Number :E2/2021/30017  
 Operation Mode :BLE 1M  
 Test Frequency :2480 MHz  
 Test Mode :TX CH HIGH  
 EUT Pol :E1 Plan  
 Note :NO.5

Test Site :SAC D  
 Test Date :2021-08-03  
 Temp./Humi. :21.5/65  
 Antenna Pol. :Horizontal  
 Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4960.000	Average	37.26	-2.87	34.38	54.00	-19.62
4960.000	Peak	43.36	-2.87	40.49	74.00	-33.51
7440.000	Average	37.01	3.85	40.86	54.00	-13.14
7440.000	Peak	43.03	3.85	46.88	74.00	-27.12

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## BLE2M

Report Number :E2/2021/30017

Test Site :SAC D

Operation Mode :BLE 2M

Test Date :2021-08-04

Test Frequency :2402 MHz

Temp./Humi. :21.7/65

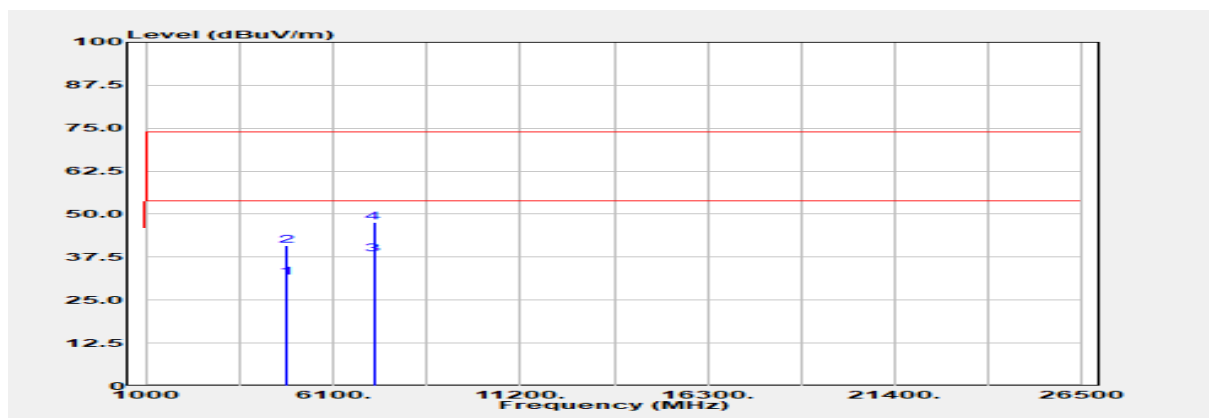
Test Mode :TX CH LOW

Antenna Pol. :Vertical

EUT Pol :E1 Plan

Engineer :Andy Wang

Note :NO.5



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4804.000	Average	34.55	-3.04	31.51	54.00	-22.49
4804.000	Peak	43.91	-3.04	40.86	74.00	-33.14
7206.000	Average	35.47	2.98	38.45	54.00	-15.55
7206.000	Peak	44.69	2.98	47.67	74.00	-26.33

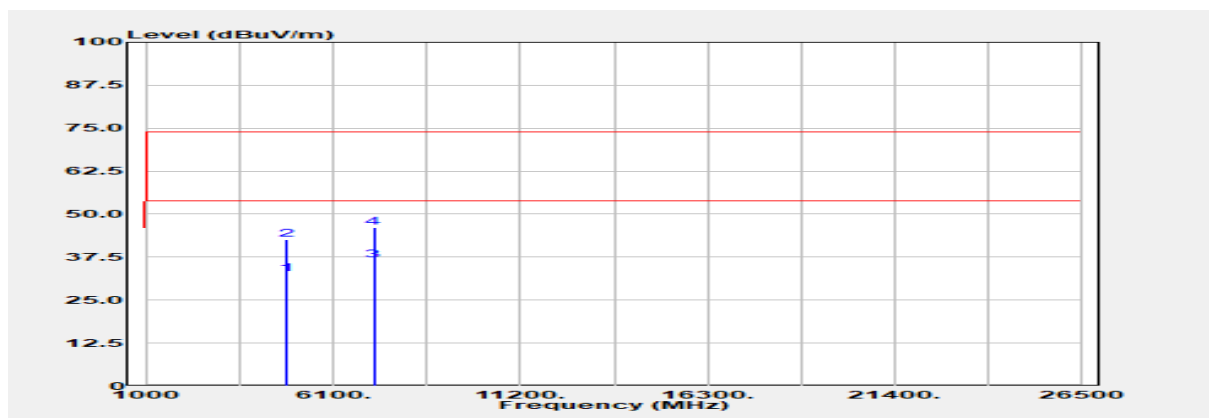
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Report Number :E2/2021/30017  
 Operation Mode :BLE 2M  
 Test Frequency :2402 MHz  
 Test Mode :TX CH LOW  
 EUT Pol :E1 Plan  
 Note :NO.5

Test Site :SAC D  
 Test Date :2021-08-04  
 Temp./Humi. :21.7/65  
 Antenna Pol. :Horizontal  
 Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4804.000	Average	35.52	-3.04	32.48	54.00	-21.52
4804.000	Peak	45.66	-3.04	42.62	74.00	-31.38
7206.000	Average	33.63	2.98	36.61	54.00	-17.39
7206.000	Peak	43.22	2.98	46.20	74.00	-27.80

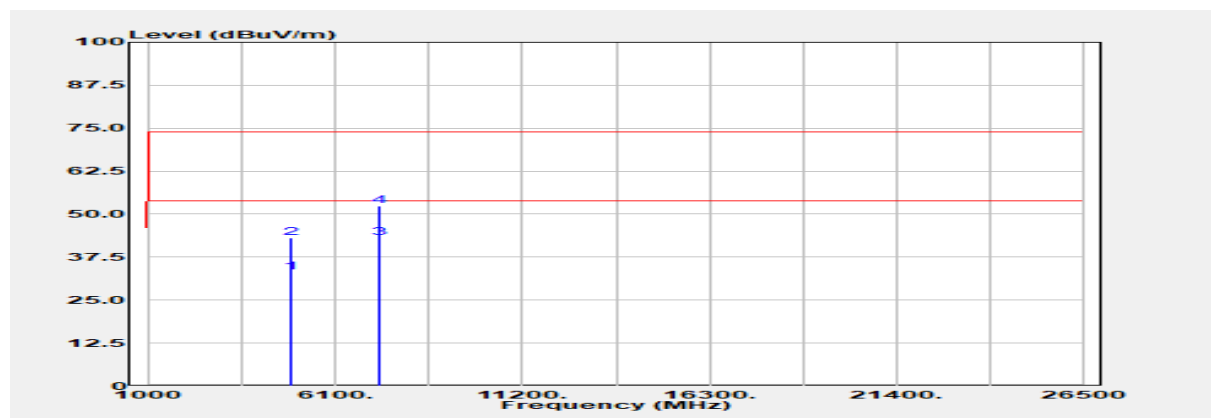
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Report Number :E2/2021/30017  
Operation Mode :BLE 2M  
Test Frequency :2442 MHz  
Test Mode :TX CH MID  
EUT Pol :E1 Plan  
Note :NO.5

Test Site :SAC D  
Test Date :2021-08-04  
Temp./Humi. :21.7/65  
Antenna Pol. :Vertical  
Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4884.000	Average	36.24	-3.20	33.04	54.00	-20.96
4884.000	Peak	46.43	-3.20	43.23	74.00	-30.77
7326.000	Average	39.88	3.24	43.12	54.00	-10.88
7326.000	Peak	49.12	3.24	52.37	74.00	-21.63

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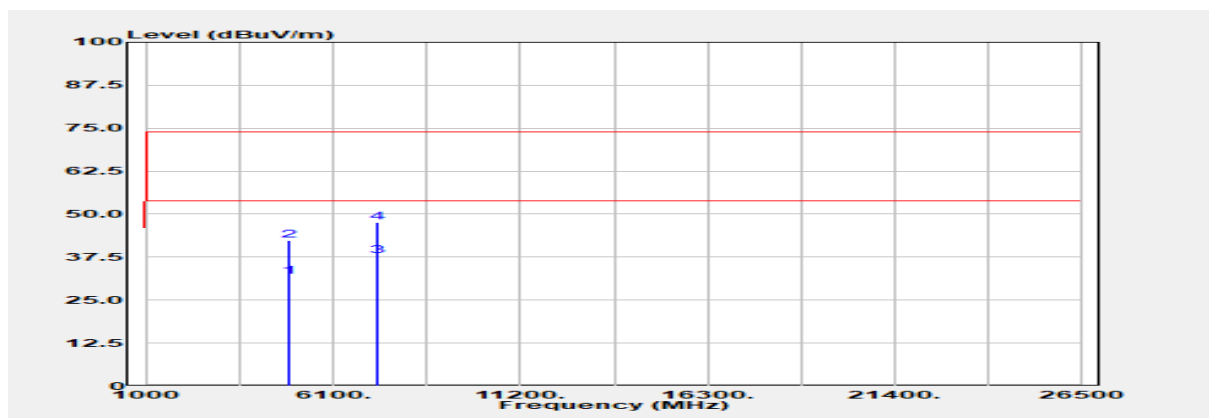
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Report Number :E2/2021/30017  
 Operation Mode :BLE 2M  
 Test Frequency :2442 MHz  
 Test Mode :TX CH MID  
 EUT Pol :E1 Plan  
 Note :NO.5

Test Site :SAC D  
 Test Date :2021-08-04  
 Temp./Humi. : 21.7/65  
 Antenna Pol. :Horizontal  
 Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4884.000	Average	35.06	-3.20	31.86	54.00	-22.14
4884.000	Peak	45.56	-3.20	42.36	74.00	-31.64
7326.000	Average	34.52	3.24	37.76	54.00	-16.24
7326.000	Peak	44.42	3.24	47.66	74.00	-26.34

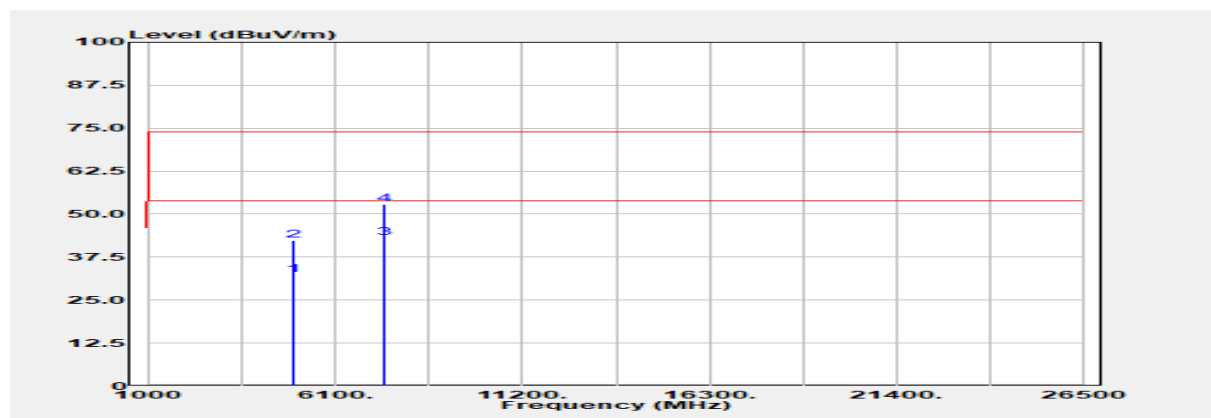
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Report Number :E2/2021/30017  
Operation Mode :BLE 2M  
Test Frequency :2480 MHz  
Test Mode :TX CH HIGH  
EUT Pol :E1 Plan  
Note :NO.5

Test Site :SAC D  
Test Date :2021-08-04  
Temp./Humi. : 21.7/65  
Antenna Pol. :Vertical  
Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4960.000	Average	35.18	-2.87	32.31	54.00	-21.69
4960.000	Peak	45.14	-2.87	42.26	74.00	-31.74
7440.000	Average	39.35	3.85	43.20	54.00	-10.80
7440.000	Peak	49.06	3.85	52.91	74.00	-21.09

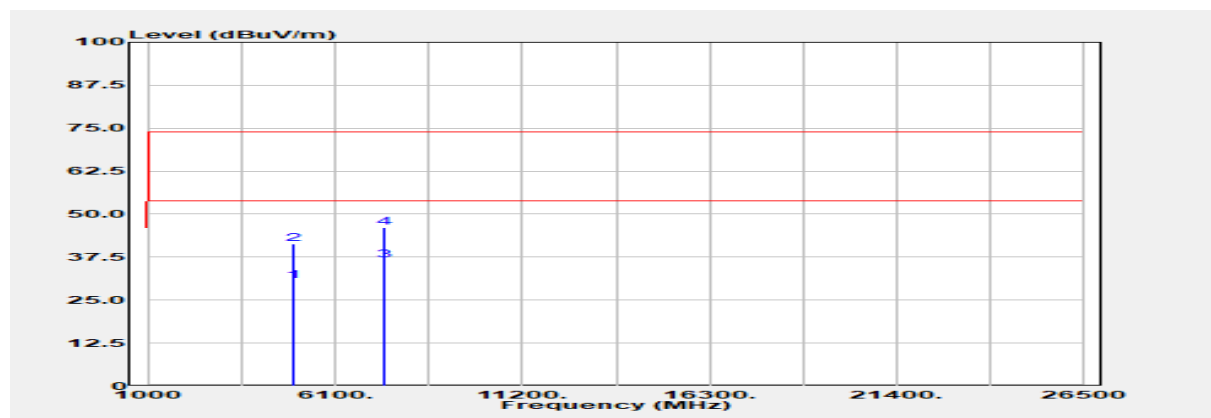
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Report Number :E2/2021/30017  
 Operation Mode :BLE 2M  
 Test Frequency :2480 MHz  
 Test Mode :TX CH HIGH  
 EUT Pol :E1 Plan  
 Note :NO.5

Test Site :SAC D  
 Test Date :2021-08-04  
 Temp./Humi. : 21.7/65  
 Antenna Pol. :Horizontal  
 Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4960.000	Average	33.39	-2.87	30.51	54.00	-23.49
4960.000	Peak	44.14	-2.87	41.26	74.00	-32.74
7440.000	Average	32.74	3.85	36.59	54.00	-17.41
7440.000	Peak	42.31	3.85	46.16	74.00	-27.84

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### 10.7.11 SANT-Dipole No.4

#### BLE1M

Report Number :E2/2021/30017

Test Site :966 Chamber D

Operation Mode :BLE 1M

Test Date :2021-07-19

Test Frequency :2402 MHz

Temp./Humi. :23.5/60

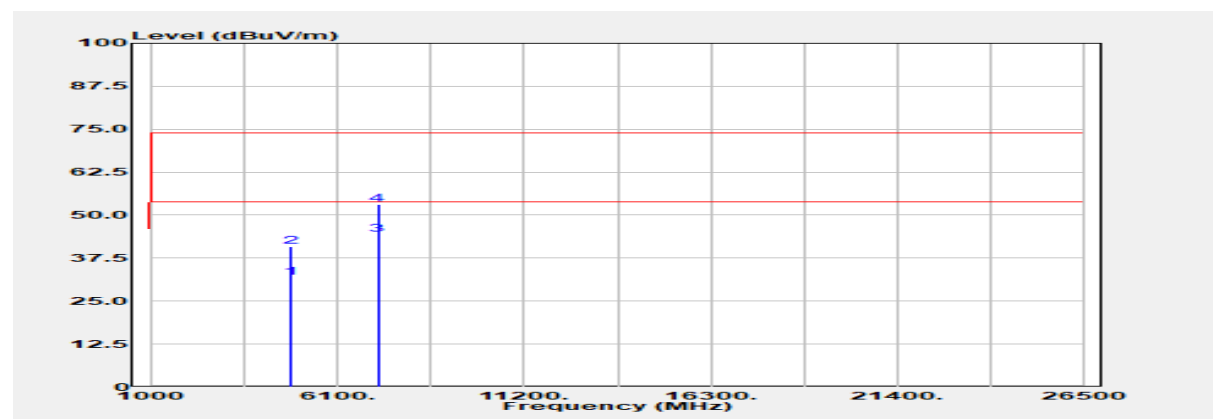
Test Mode :TX CH LOW

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Jack Tseng

Ant :NO.4 Dipole



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4804.000	Average	34.85	-3.03	31.82	54.00	-22.18
4804.000	Peak	44.00	-3.03	40.97	74.00	-33.03
7206.000	Average	41.37	2.98	44.35	54.00	-9.65
7206.000	Peak	50.18	2.98	53.16	74.00	-20.84

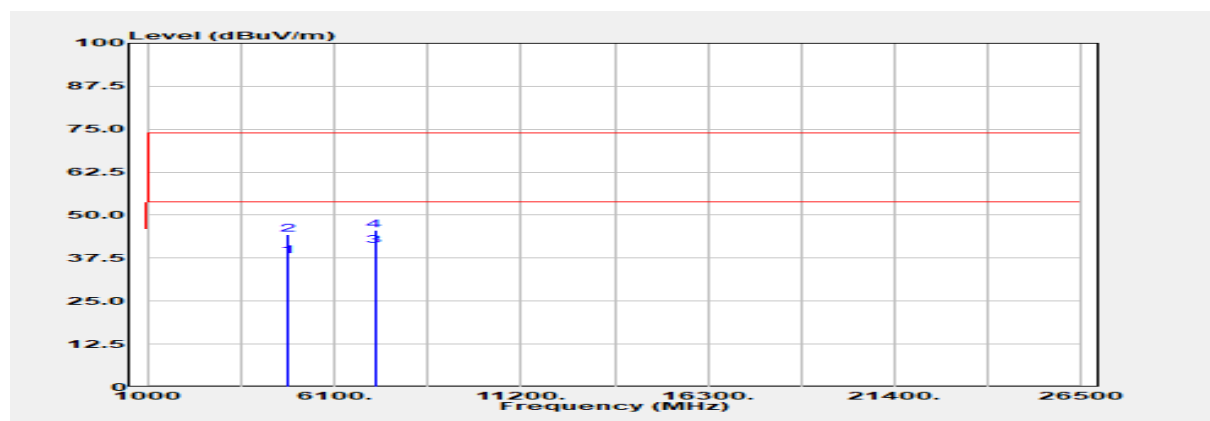
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Report Number :E2/2021/30017  
Operation Mode :BLE 1M  
Test Frequency :2402 MHz  
Test Mode :TX CH LOW  
EUT Pol :E2 Plane  
Ant :NO.4 Dipole

Test Site :966 Chamber D  
Test Date :2021-07-19  
Temp./Humi. :23.5/60  
Antenna Pol. :Horizontal  
Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4804.000	Average	41.04	-3.03	38.01	54.00	-15.99
4804.000	Peak	47.27	-3.03	44.24	74.00	-29.76
7206.000	Average	38.07	2.98	41.05	54.00	-12.95
7206.000	Peak	42.68	2.98	45.66	74.00	-28.34

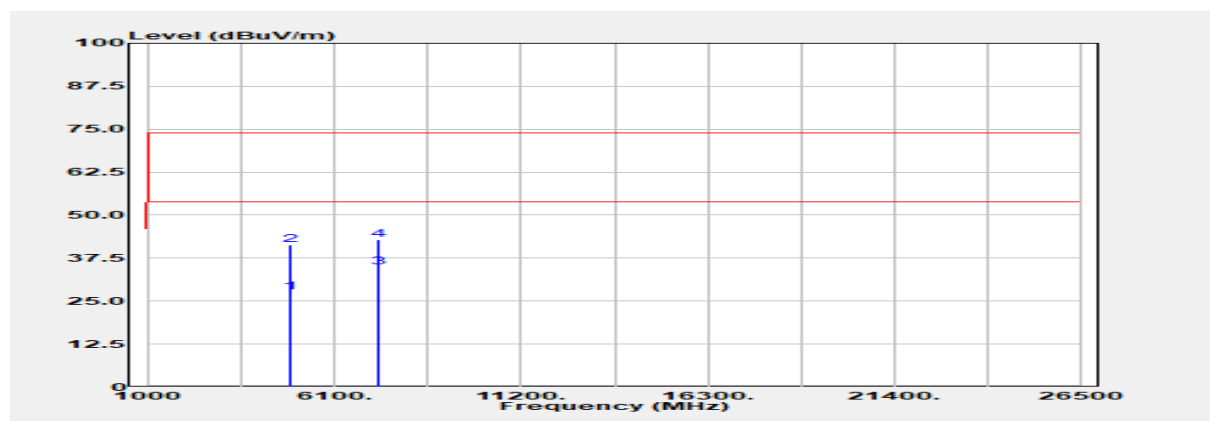
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Report Number :E2/2021/30017  
Operation Mode :BLE 1M  
Test Frequency :2442 MHz  
Test Mode :TX CH MID  
EUT Pol :E2 Plane  
Ant :NO.4 Dipole

Test Site :966 Chamber D  
Test Date :2021-07-19  
Temp./Humi. :23.5/60  
Antenna Pol. :Vertical  
Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4884.000	Average	30.81	-3.17	27.64	54.00	-26.36
4884.000	Peak	44.46	-3.17	41.29	74.00	-32.71
7326.000	Average	31.77	3.14	34.91	54.00	-19.09
7326.000	Peak	39.84	3.14	42.98	74.00	-31.02

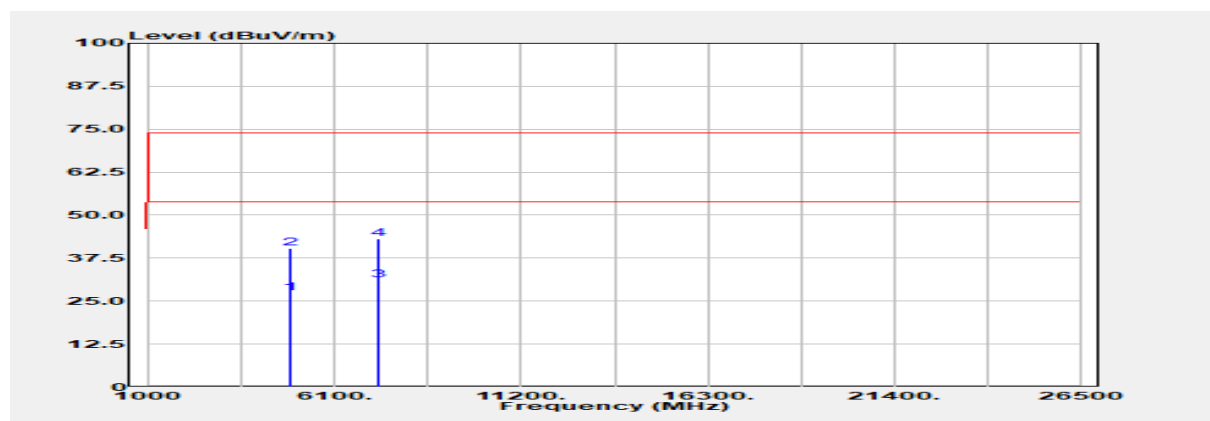
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Report Number :E2/2021/30017  
Operation Mode :BLE 1M  
Test Frequency :2442 MHz  
Test Mode :TX CH MID  
EUT Pol :E2 Plane  
Ant :NO.4 Dipole

Test Site :966 Chamber D  
Test Date :2021-07-19  
Temp./Humi. :23.5/60  
Antenna Pol. :Horizontal  
Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4884.000	Average	30.56	-3.17	27.39	54.00	-26.61
4884.000	Peak	43.51	-3.17	40.34	74.00	-33.66
7326.000	Average	27.88	3.14	31.02	54.00	-22.98
7326.000	Peak	39.97	3.14	43.11	74.00	-30.89

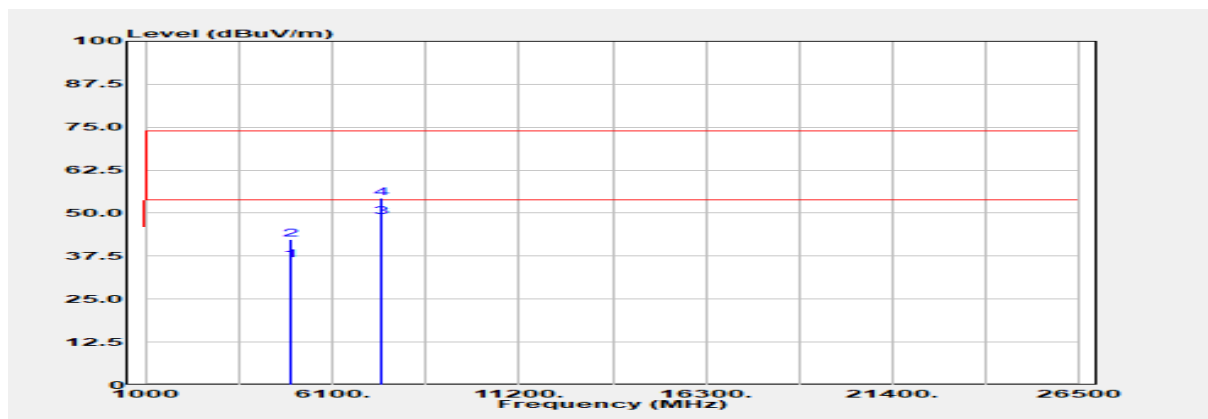
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Report Number :E2/2021/30017  
 Operation Mode :BLE 1M  
 Test Frequency :2480 MHz  
 Test Mode :TX CH HIGH  
 EUT Pol :E2 Plane  
 Ant :NO.4 Dipole

Test Site :966 Chamber D  
 Test Date :2021-07-19  
 Temp./Humi. :23.5/60  
 Antenna Pol. :Vertical  
 Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4960.000	Average	39.17	-2.89	36.28	54.00	-17.72
4960.000	Peak	45.34	-2.89	42.44	74.00	-31.56
7440.000	Average	45.33	3.65	48.98	54.00	-5.02
7440.000	Peak	50.84	3.65	54.49	74.00	-19.51

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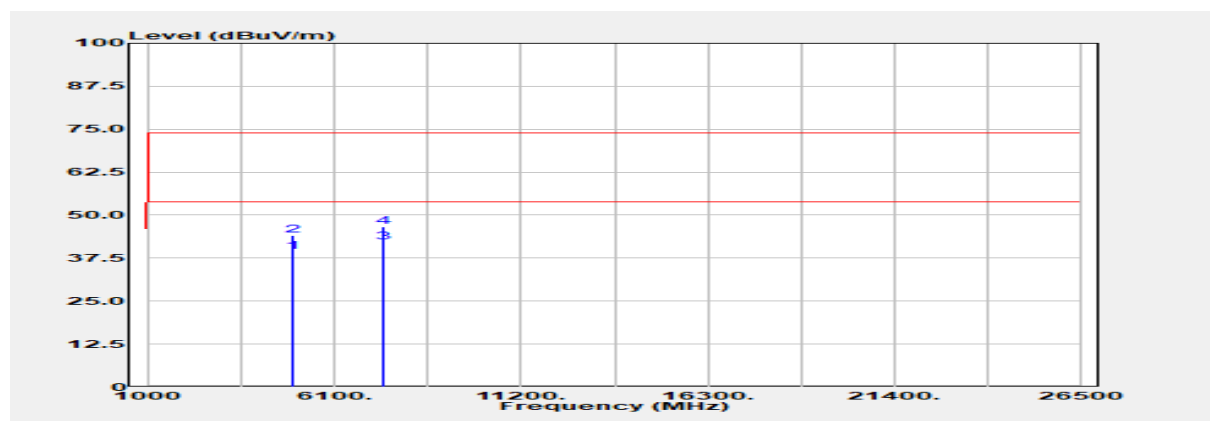
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Report Number :E2/2021/30017  
Operation Mode :BLE 1M  
Test Frequency :2480 MHz  
Test Mode :TX CH HIGH  
EUT Pol :E2 Plane  
Ant :NO.4 Dipole

Test Site :966 Chamber D  
Test Date :2021-07-19  
Temp./Humi. :23.5/60  
Antenna Pol. :Horizontal  
Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4960.000	Average	42.18	-2.89	39.28	54.00	-14.72
4960.000	Peak	46.95	-2.89	44.06	74.00	-29.94
7440.000	Average	38.50	3.65	42.15	54.00	-11.85
7440.000	Peak	43.01	3.65	46.66	74.00	-27.34

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## BLE2M

Report Number :E2/2021/30017

Test Site :966 Chamber D

Operation Mode :BLE 2M

Test Date :2021-07-19

Test Frequency :2402 MHz

Temp./Humi. :23.5/60

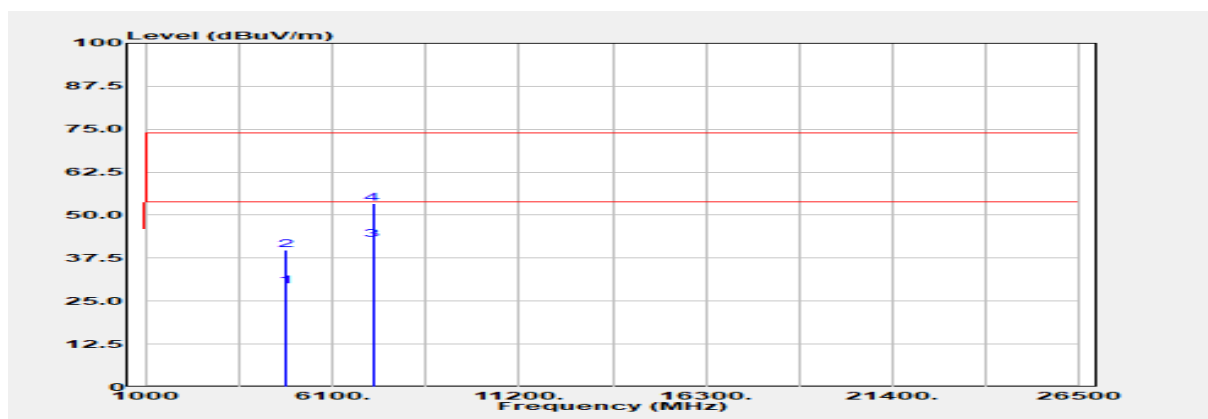
Test Mode :TX CH LOW

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Jack Tseng

Ant :NO.4 Dipole



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4804.000	Average	32.47	-3.03	29.43	54.00	-24.57
4804.000	Peak	42.97	-3.03	39.93	74.00	-34.07
7206.000	Average	39.82	2.98	42.80	54.00	-11.20
7206.000	Peak	50.39	2.98	53.37	74.00	-20.63

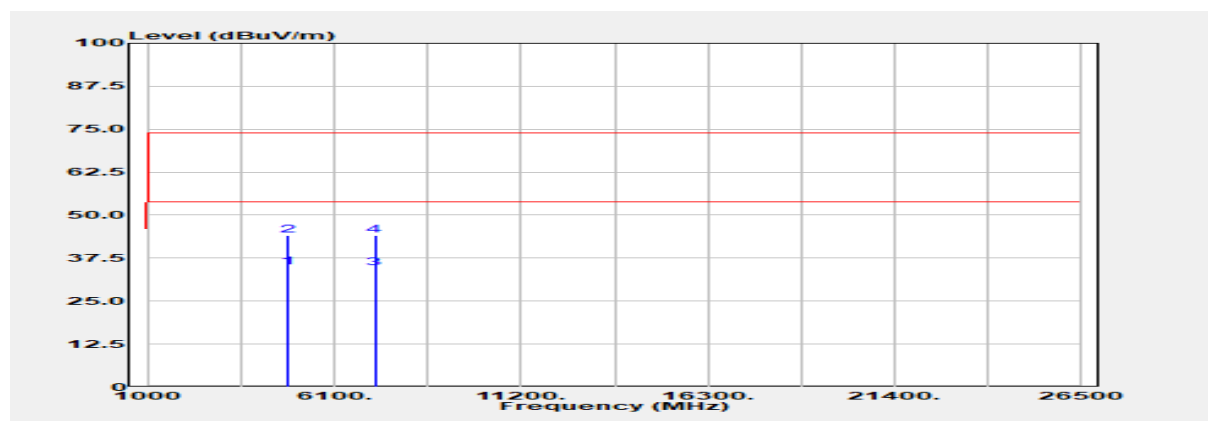
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Report Number :E2/2021/30017  
 Operation Mode :BLE 2M  
 Test Frequency :2402 MHz  
 Test Mode :TX CH LOW  
 EUT Pol :E2 Plane  
 Ant :NO.4 Dipole

Test Site :966 Chamber D  
 Test Date :2021-07-19  
 Temp./Humi. :23.5/60  
 Antenna Pol. :Horizontal  
 Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4804.000	Average	37.95	-3.03	34.92	54.00	-19.08
4804.000	Peak	47.07	-3.03	44.04	74.00	-29.96
7206.000	Average	31.64	2.98	34.62	54.00	-19.38
7206.000	Peak	41.19	2.98	44.17	74.00	-29.83

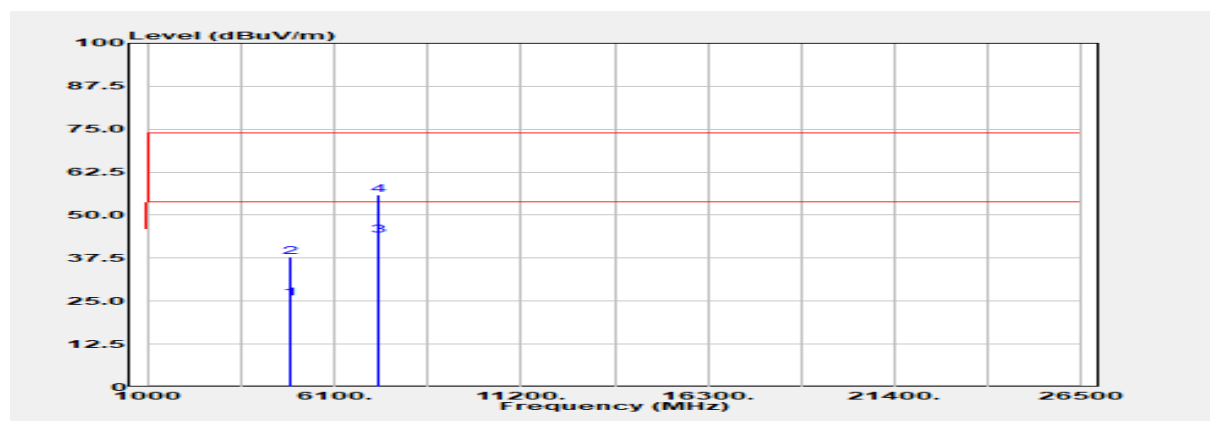
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Report Number :E2/2021/30017  
Operation Mode :BLE 2M  
Test Frequency :2442 MHz  
Test Mode :TX CH MID  
EUT Pol :E2 Plane  
Ant :NO.4 Dipole

Test Site :966 Chamber D  
Test Date :2021-07-19  
Temp./Humi. :23.5/60  
Antenna Pol. :Vertical  
Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4884.000	Average	29.07	-3.17	25.89	54.00	-28.11
4884.000	Peak	41.09	-3.17	37.92	74.00	-36.08
7326.000	Average	40.97	3.14	44.11	54.00	-9.89
7326.000	Peak	52.79	3.14	55.92	74.00	-18.08

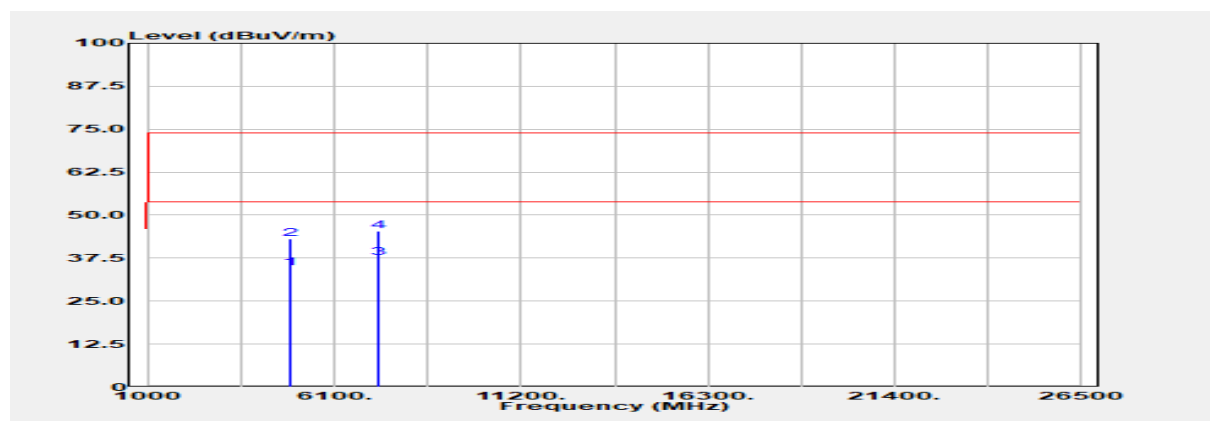
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Report Number :E2/2021/30017  
Operation Mode :BLE 2M  
Test Frequency :2442 MHz  
Test Mode :TX CH MID  
EUT Pol :E2 Plane  
Ant :NO.4 Dipole

Test Site :966 Chamber D  
Test Date :2021-07-19  
Temp./Humi. :23.5/60  
Antenna Pol. :Horizontal  
Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4884.000	Average	37.67	-3.17	34.49	54.00	-19.51
4884.000	Peak	46.24	-3.17	43.07	74.00	-30.93
7326.000	Average	34.55	3.14	37.69	54.00	-16.31
7326.000	Peak	42.30	3.14	45.43	74.00	-28.57

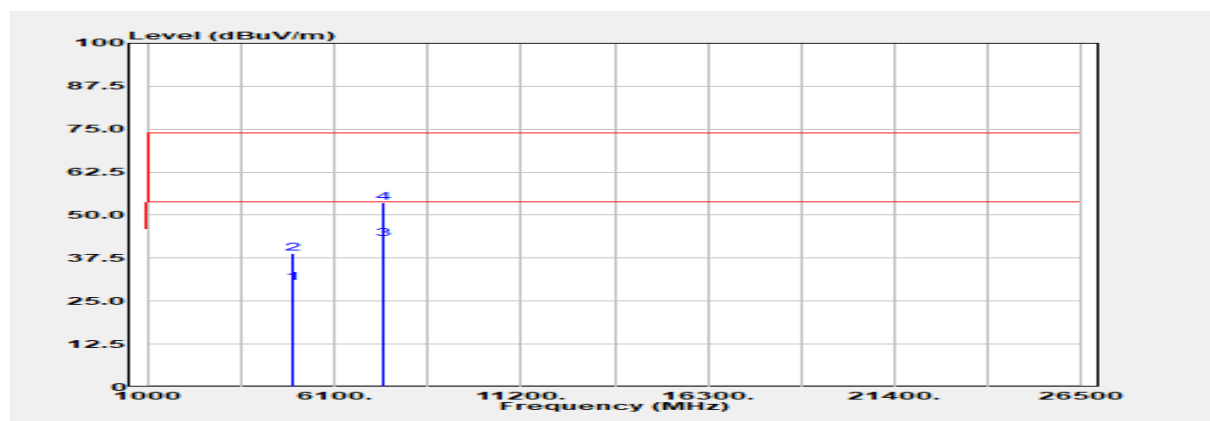
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Report Number :E2/2021/30017  
Operation Mode :BLE 2M  
Test Frequency :2480 MHz  
Test Mode :TX CH HIGH  
EUT Pol :E2 Plane  
Ant :NO.4 Dipole

Test Site :966 Chamber D  
Test Date :2021-07-19  
Temp./Humi. :23.5/60  
Antenna Pol. :Vertical  
Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4960.000	Average	33.33	-2.89	30.43	54.00	-23.57
4960.000	Peak	41.74	-2.89	38.84	74.00	-35.16
7440.000	Average	39.38	3.65	43.03	54.00	-10.97
7440.000	Peak	49.97	3.65	53.62	74.00	-20.38

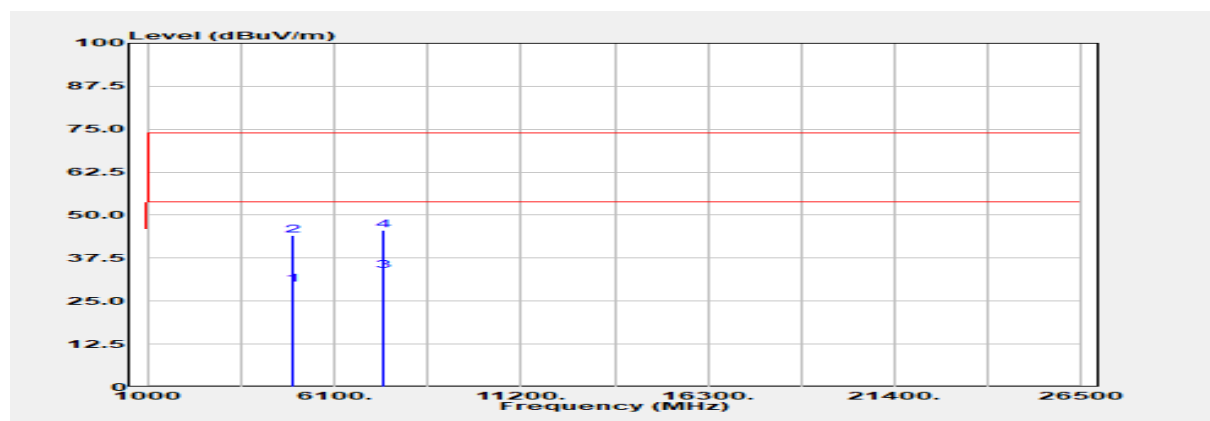
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Report Number :E2/2021/30017  
Operation Mode :BLE 2M  
Test Frequency :2480 MHz  
Test Mode :TX CH HIGH  
EUT Pol :E2 Plane  
Ant :NO.4 Dipole

Test Site :966 Chamber D  
Test Date :2021-07-19  
Temp./Humi. :23.5/60  
Antenna Pol. :Horizontal  
Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4960.000	Average	32.61	-2.89	29.72	54.00	-24.28
4960.000	Peak	46.98	-2.89	44.09	74.00	-29.91
7440.000	Average	30.23	3.65	33.88	54.00	-20.12
7440.000	Peak	41.99	3.65	45.64	74.00	-28.36

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## 10.7.12 SANT-Monopole No.7

### BLE1M

Report Number :E2/2021/30017

Test Site :966 Chamber D

Operation Mode :BLE 1M

Test Date :2021-07-19

Test Frequency :2402 MHz

Temp./Humi. :23.5/60

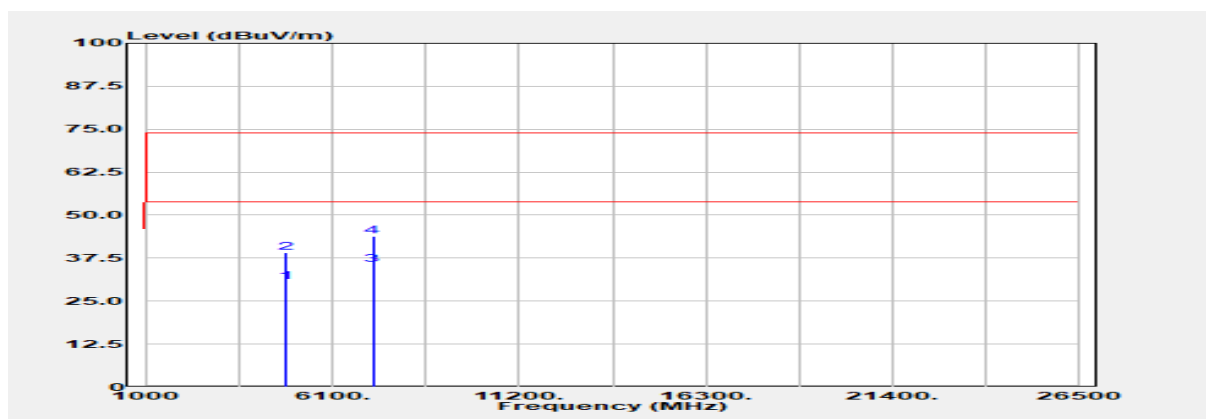
Test Mode :TX CH LOW

Antenna Pol. :Vertical

EUT Pol :E1 Plane

Engineer :Jack Tseng

Ant :NO.7 Monopole



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4804.000	Average	33.51	-3.03	30.47	54.00	-23.53
4804.000	Peak	42.14	-3.03	39.11	74.00	-34.89
7206.000	Average	32.52	2.98	35.50	54.00	-18.50
7206.000	Peak	41.00	2.98	43.98	74.00	-30.02

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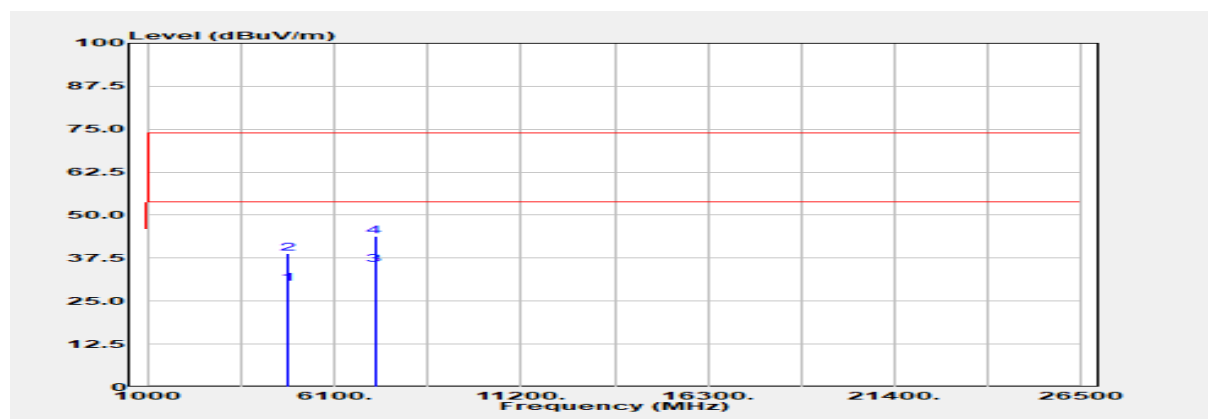
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Report Number :E2/2021/30017  
 Operation Mode :BLE 1M  
 Test Frequency :2402 MHz  
 Test Mode :TX CH LOW  
 EUT Pol :E1 Plane  
 Ant :NO.7 Monopole

Test Site :966 Chamber D  
 Test Date :2021-07-19  
 Temp./Humi. :23.5/60  
 Antenna Pol. :Horizontal  
 Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4804.000	Average	33.16	-3.03	30.13	54.00	-23.87
4804.000	Peak	41.88	-3.03	38.85	74.00	-35.15
7206.000	Average	32.72	2.98	35.70	54.00	-18.30
7206.000	Peak	40.88	2.98	43.86	74.00	-30.14

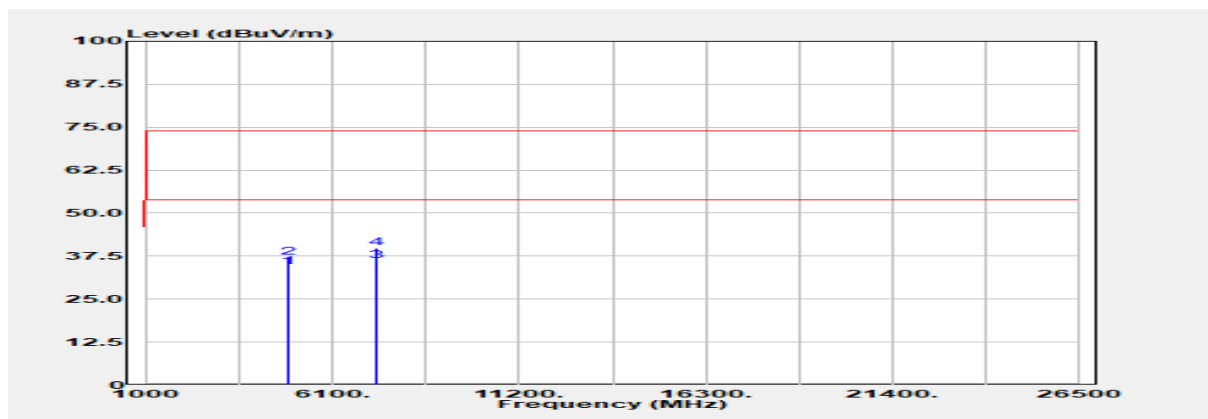
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Report Number :E2/2021/30017  
Operation Mode :BLE 1M  
Test Frequency :2442 MHz  
Test Mode :TX CH MID  
EUT Pol :E1 Plane  
Ant :NO.7 Monopole

Test Site :966 Chamber D  
Test Date :2021-07-19  
Temp./Humi. :23.5/60  
Antenna Pol. :Vertical  
Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4884.000	Average	37.56	-3.17	34.39	54.00	-19.61
4884.000	Peak	40.21	-3.17	37.03	74.00	-36.97
7326.000	Average	32.96	3.14	36.10	54.00	-17.90
7326.000	Peak	36.62	3.14	39.76	74.00	-34.24

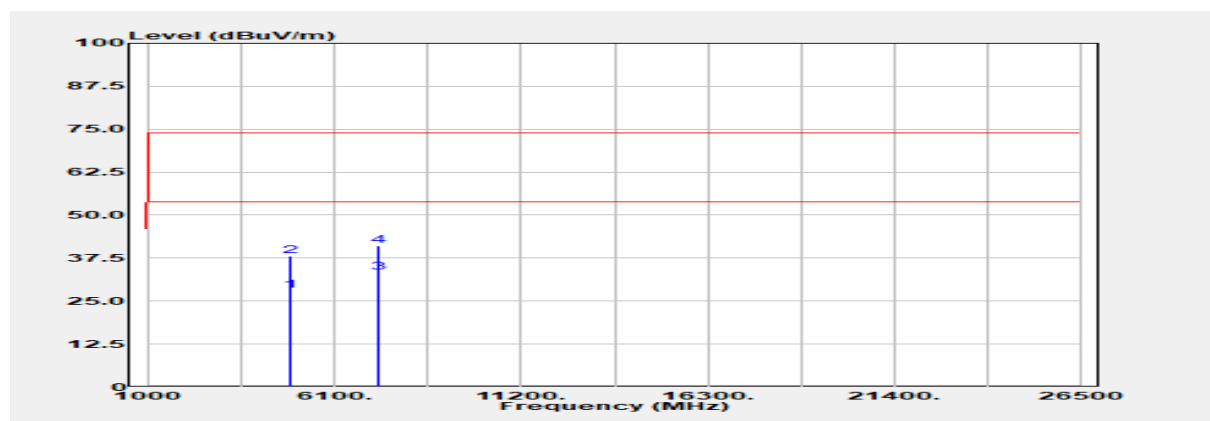
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Report Number :E2/2021/30017  
Operation Mode :BLE 1M  
Test Frequency :2442 MHz  
Test Mode :TX CH MID  
EUT Pol :E1 Plane  
Ant :NO.7 Monopole

Test Site :966 Chamber D  
Test Date :2021-07-19  
Temp./Humi. :23.5/60  
Antenna Pol. :Horizontal  
Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4884.000	Average	31.27	-3.17	28.10	54.00	-25.90
4884.000	Peak	41.20	-3.17	38.03	74.00	-35.97
7326.000	Average	30.26	3.14	33.40	54.00	-20.60
7326.000	Peak	37.96	3.14	41.10	74.00	-32.90

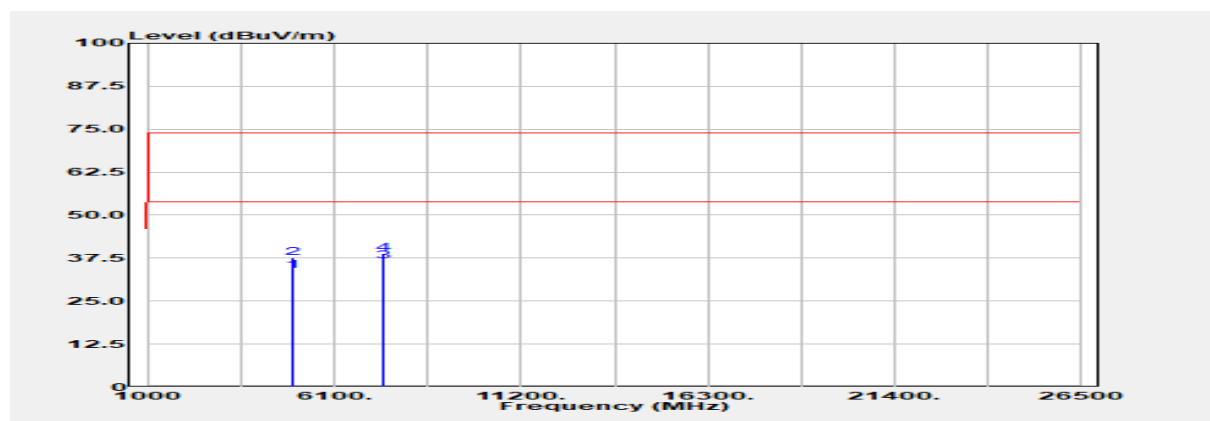
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Report Number :E2/2021/30017  
Operation Mode :BLE 1M  
Test Frequency :2480 MHz  
Test Mode :TX CH HIGH  
EUT Pol :E1 Plane  
Ant :NO.7 Monopole

Test Site :966 Chamber D  
Test Date :2021-07-19  
Temp./Humi. :23.5/60  
Antenna Pol. :Vertical  
Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4960.000	Average	36.75	-2.89	33.86	54.00	-20.14
4960.000	Peak	40.47	-2.89	37.57	74.00	-36.43
7440.000	Average	32.86	3.65	36.51	54.00	-17.49
7440.000	Peak	35.17	3.65	38.81	74.00	-35.19

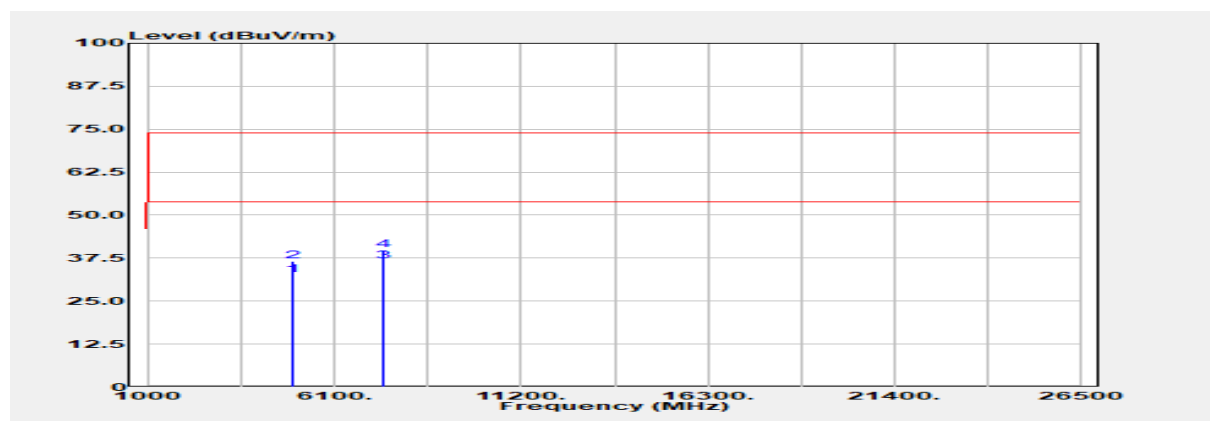
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Report Number :E2/2021/30017  
Operation Mode :BLE 1M  
Test Frequency :2480 MHz  
Test Mode :TX CH HIGH  
EUT Pol :E1 Plane  
Ant :NO.7 Monopole

Test Site :966 Chamber D  
Test Date :2021-07-19  
Temp./Humi. :23.5/60  
Antenna Pol. :Horizontal  
Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4960.000	Average	35.42	-2.89	32.53	54.00	-21.47
4960.000	Peak	39.43	-2.89	36.54	74.00	-37.46
7440.000	Average	32.96	3.65	36.61	54.00	-17.39
7440.000	Peak	36.08	3.65	39.73	74.00	-34.27

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## BLE2M

Report Number :E2/2021/30017

Test Site :966 Chamber D

Operation Mode :BLE 2M

Test Date :2021-07-19

Test Frequency :2402 MHz

Temp./Humi. :23.5/60

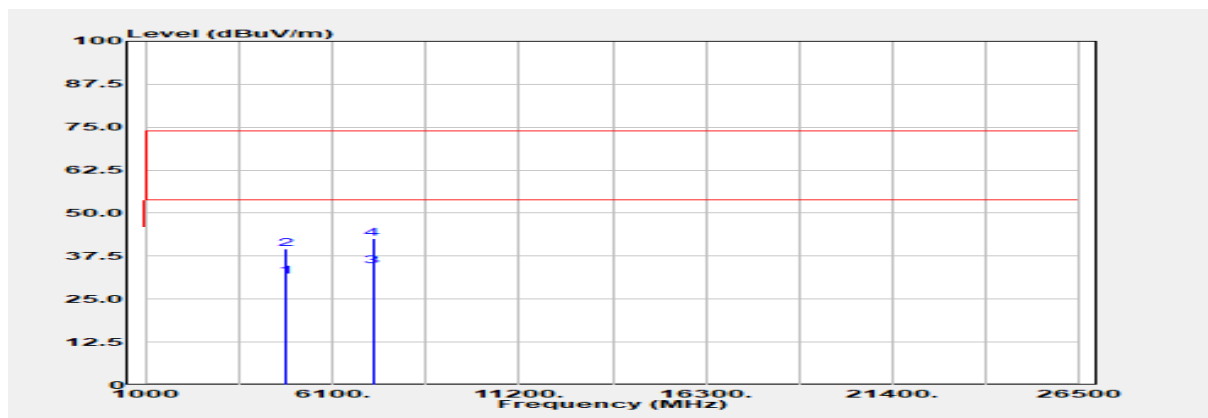
Test Mode :TX CH LOW

Antenna Pol. :Vertical

EUT Pol :E1 Plane

Engineer :Jack Tseng

Ant :NO.7 Monopole



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4804.000	Average	34.58	-3.03	31.55	54.00	-22.45
4804.000	Peak	42.64	-3.03	39.61	74.00	-34.39
7206.000	Average	31.54	2.98	34.52	54.00	-19.48
7206.000	Peak	39.50	2.98	42.48	74.00	-31.52

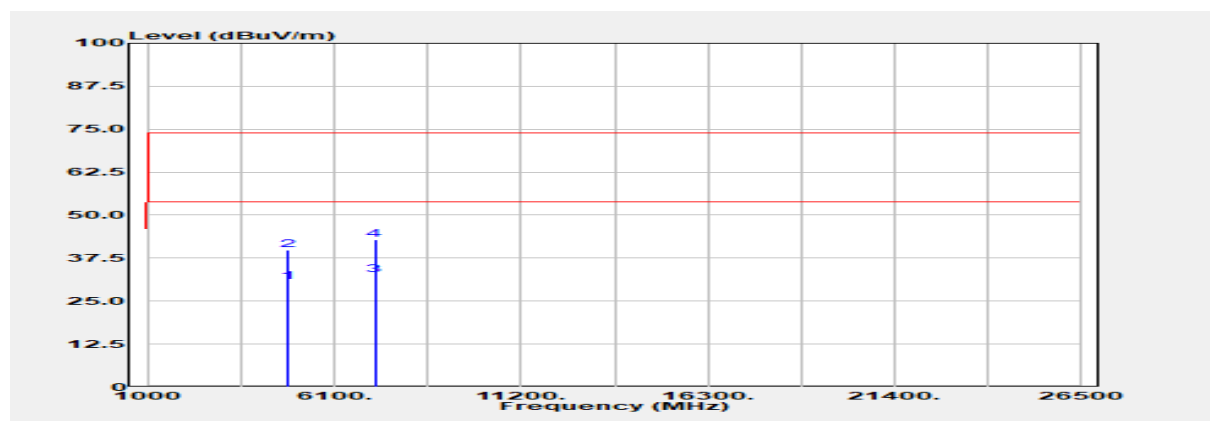
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Report Number :E2/2021/30017  
 Operation Mode :BLE 2M  
 Test Frequency :2402 MHz  
 Test Mode :TX CH LOW  
 EUT Pol :E1 Plane  
 Ant :NO.7 Monopole

Test Site :966 Chamber D  
 Test Date :2021-07-19  
 Temp./Humi. :23.5/60  
 Antenna Pol. :Horizontal  
 Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4804.000	Average	33.58	-3.03	30.55	54.00	-23.45
4804.000	Peak	42.95	-3.03	39.92	74.00	-34.08
7206.000	Average	29.48	2.98	32.46	54.00	-21.54
7206.000	Peak	39.88	2.98	42.86	74.00	-31.14

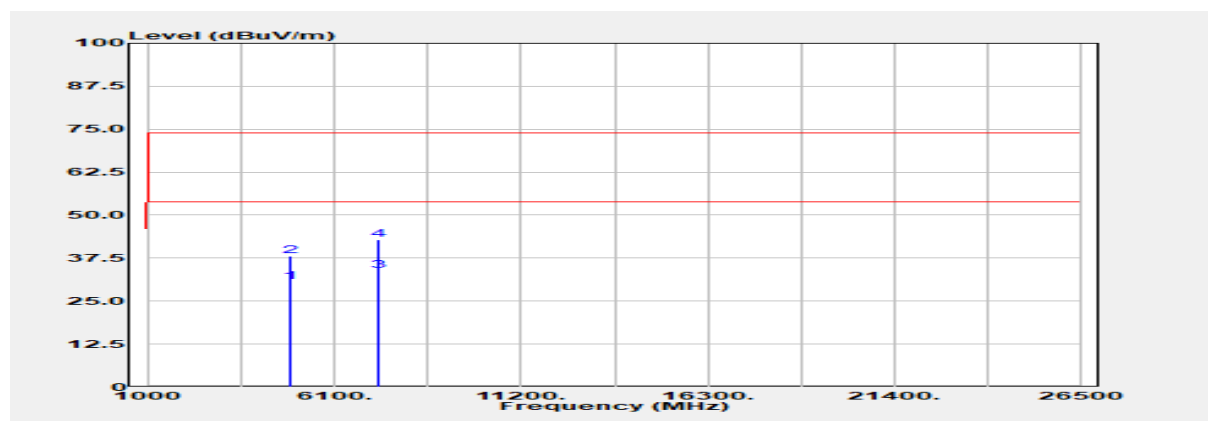
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Report Number :E2/2021/30017  
 Operation Mode :BLE 2M  
 Test Frequency :2442 MHz  
 Test Mode :TX CH MID  
 EUT Pol :E1 Plane  
 Ant :NO.7 Monopole

Test Site :966 Chamber D  
 Test Date :2021-07-19  
 Temp./Humi. :23.5/60  
 Antenna Pol. :Vertical  
 Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4884.000	Average	33.66	-3.17	30.49	54.00	-23.51
4884.000	Peak	41.21	-3.17	38.03	74.00	-35.97
7326.000	Average	30.75	3.14	33.89	54.00	-20.11
7326.000	Peak	39.62	3.14	42.76	74.00	-31.24

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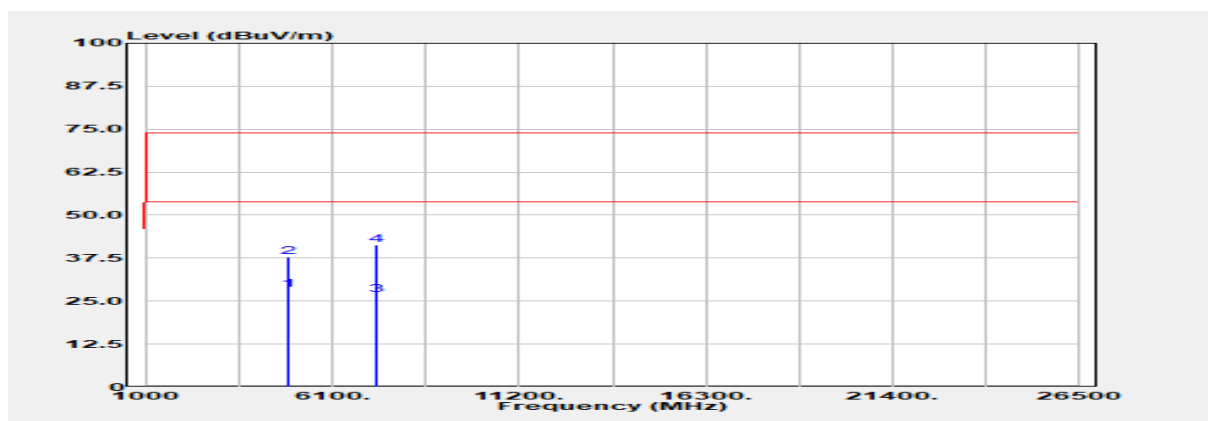
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Report Number :E2/2021/30017  
 Operation Mode :BLE 2M  
 Test Frequency :2442 MHz  
 Test Mode :TX CH MID  
 EUT Pol :E1 Plane  
 Ant :NO.7 Monopole

Test Site :966 Chamber D  
 Test Date :2021-07-19  
 Temp./Humi. :23.5/60  
 Antenna Pol. :Horizontal  
 Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4884.000	Average	31.54	-3.17	28.37	54.00	-25.63
4884.000	Peak	40.90	-3.17	37.73	74.00	-36.27
7326.000	Average	23.58	3.14	26.72	54.00	-27.28
7326.000	Peak	38.16	3.14	41.30	74.00	-32.70

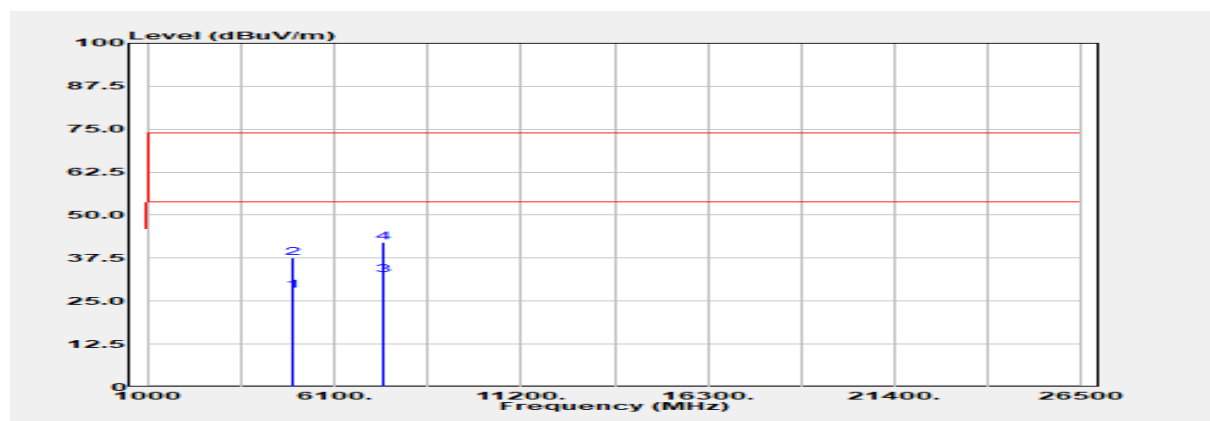
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Report Number :E2/2021/30017  
Operation Mode :BLE 2M  
Test Frequency :2480 MHz  
Test Mode :TX CH HIGH  
EUT Pol :E1 Plane  
Ant :NO.7 Monopole

Test Site :966 Chamber D  
Test Date :2021-07-19  
Temp./Humi. :23.5/60  
Antenna Pol. :Vertical  
Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4960.000	Average	31.06	-2.89	28.17	54.00	-25.83
4960.000	Peak	40.47	-2.89	37.57	74.00	-36.43
7440.000	Average	28.97	3.65	32.62	54.00	-21.38
7440.000	Peak	38.47	3.65	42.11	74.00	-31.89

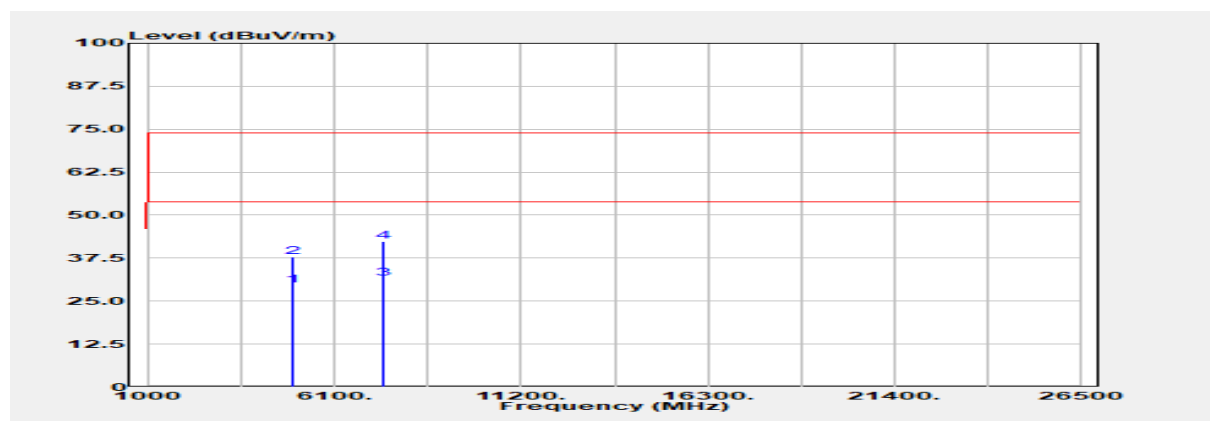
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Report Number :E2/2021/30017  
 Operation Mode :BLE 2M  
 Test Frequency :2480 MHz  
 Test Mode :TX CH HIGH  
 EUT Pol :E1 Plane  
 Ant :NO.7 Monopole

Test Site :966 Chamber D  
 Test Date :2021-07-19  
 Temp./Humi. :23.5/60  
 Antenna Pol. :Horizontal  
 Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4960.000	Average	32.55	-2.89	29.66	54.00	-24.34
4960.000	Peak	40.73	-2.89	37.84	74.00	-36.16
7440.000	Average	27.98	3.65	31.63	54.00	-22.37
7440.000	Peak	38.68	3.65	42.33	74.00	-31.67

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## 11 POWER SPECTRAL DENSITY

### 11.1 Standard Applicable:

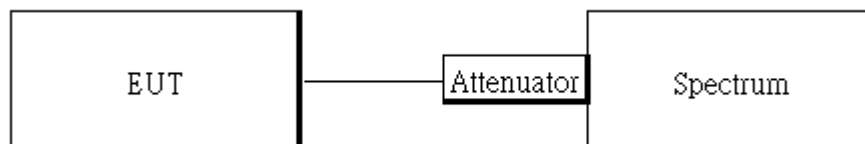
The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission.

### 11.2 Measurement Equipment Used:

Conducted Emission Test Site: Conducted A					
EQUIPMENT TYPE	MFR/BRAND	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010B	MY59071573	06/26/2020	06/25/2021
Spectrum Analyzer	KEYSIGHT	N9010B	MY59071570	06/01/2021	05/31/2022
DC Power Supply	Agilent	E3640A	MY53130054	09/07/2020	09/06/2021
Attenuator	Marvelous	MVE2213-10	RF09	11/19/2020	11/18/2021
DC Block	PASTERNAK	PE8210	RF151	11/19/2020	11/18/2021
Test Software	SGS Taiwan	Radio Test Software	Ver.21	N.C.R	N.C.R

Note: N.C.R refers to Not Calibrated Required

### 11.3 Test Set-up:



### 11.4 Measurement Procedure:

1. Set analyzer center frequency to DTS channel center frequency.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
3. Set the span to 1.5 times the DTS channel bandwidth.
4. Set the RBW = 3 kHz. & the VBW = 10 kHz
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.

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## 11.5 Measurement Result:

### 11.5.1 DANT-Dipole Ant No.5

#### BLE mode

Frequency (MHz)	RF Power Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2402	-9.690	8	PASS
2442	-9.740	8	PASS
2480	-9.930	8	PASS

**NOTE: cable loss as 10.8dB that offsets in the spectrum**

#### BLE 2M mode

Frequency (MHz)	RF Power Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2402	-12.570	8	PASS
2442	-12.690	8	PASS
2480	-12.810	8	PASS

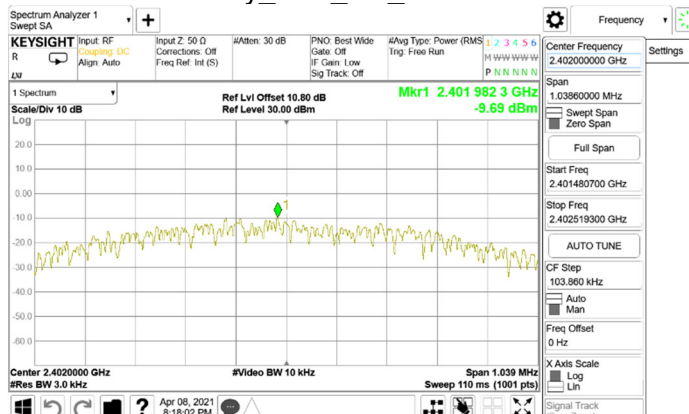
**NOTE: cable loss as 10.8dB that offsets in the spectrum**

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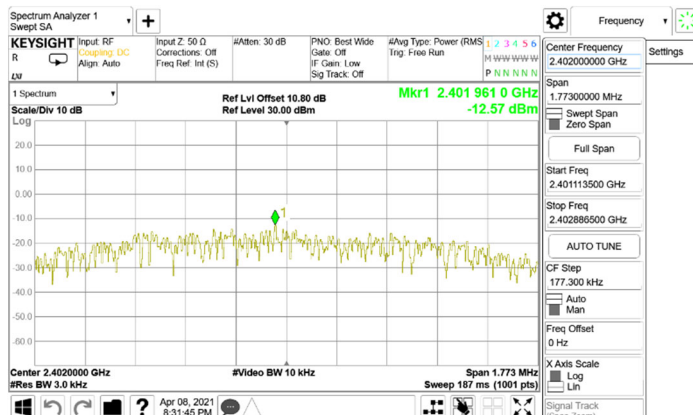
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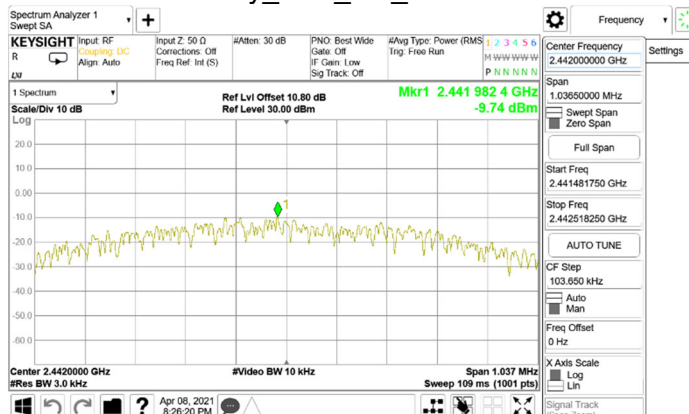
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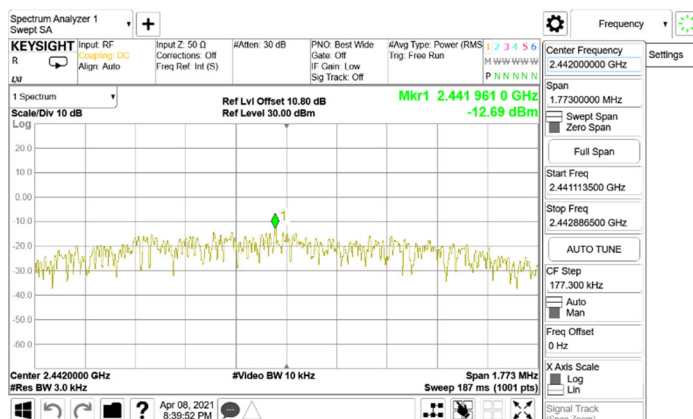
## Power Density\_BLE\_2M\_LowCH00-2402



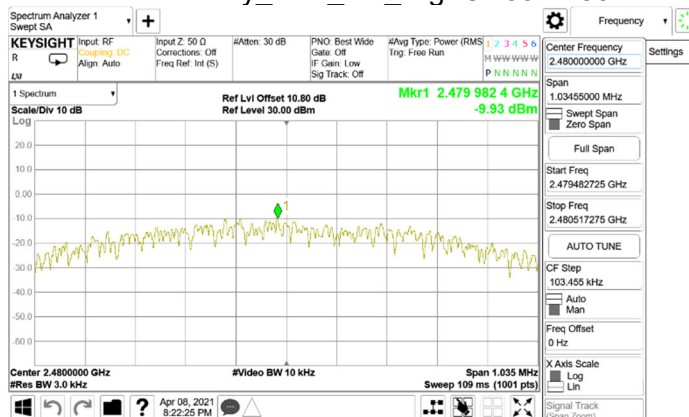
## Power Density\_BLE\_1M\_MidCH20-2442



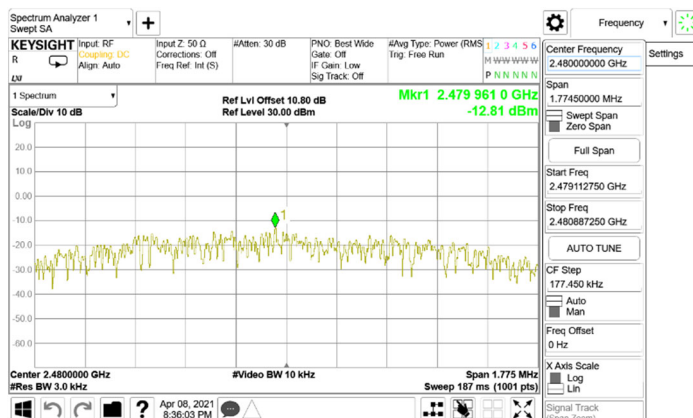
## Power Density\_BLE\_2M\_MidCH20-2442



## Power Density\_BLE\_1M\_HighCH39-2480



## Power Density\_BLE\_2M\_HighCH39-2480



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## 11.5.2 SANT-Dipole No.4 & SANT-Monopole No.7

### BLE mode

Frequency (MHz)	RF Power Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2402	-10.940	8	PASS
2442	-10.930	8	PASS
2480	-11.400	8	PASS

**NOTE: cable loss as 10.8dB that offsets in the spectrum**

### BLE 2M mode

Frequency (MHz)	RF Power Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2402	-13.750	8	PASS
2442	-13.950	8	PASS
2480	-14.320	8	PASS

**NOTE: cable loss as 10.8dB that offsets in the spectrum**

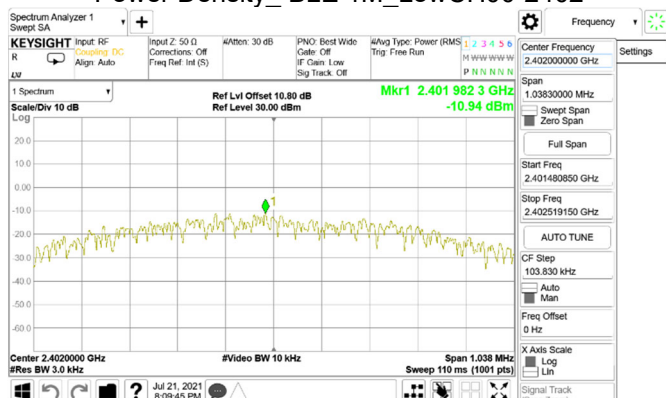
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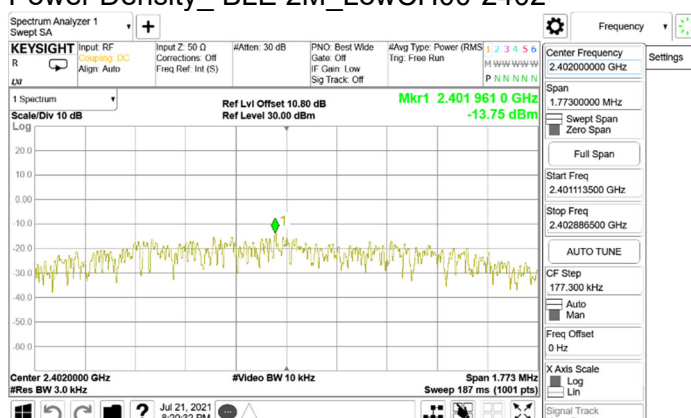
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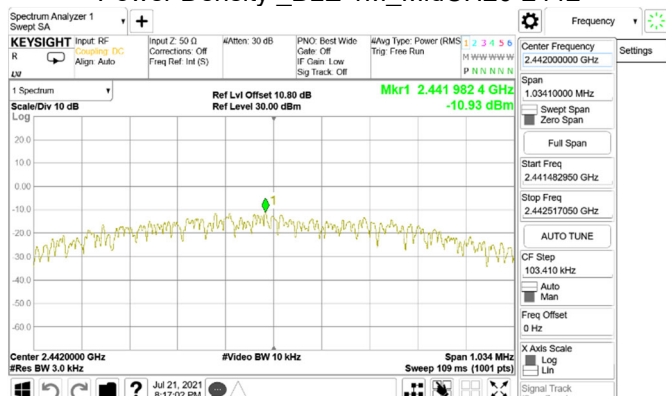
Power Density\_ BLE 1M\_LowCH00-2402



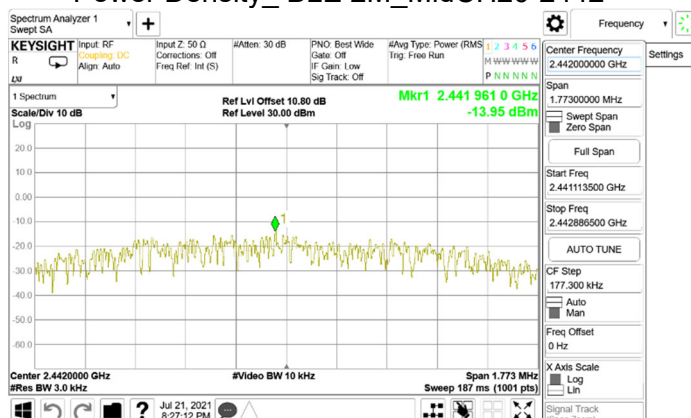
Power Density\_ BLE 2M\_LowCH00-2402



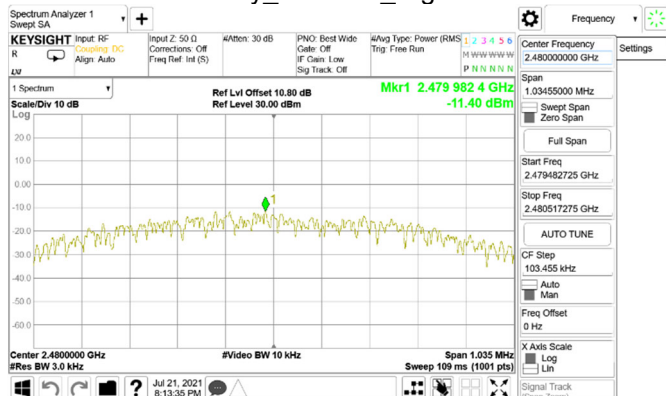
Power Density\_ BLE 1M\_MidCH20-2442



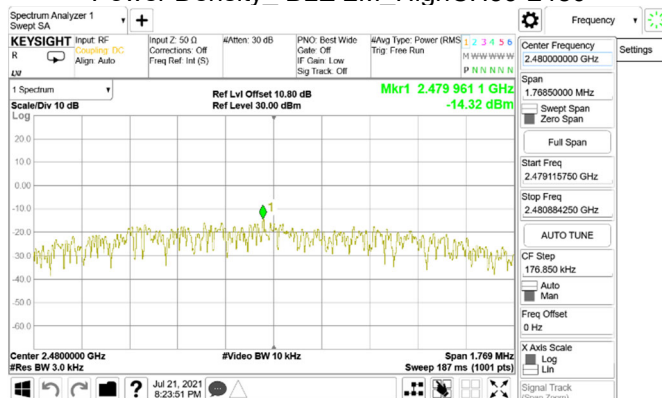
Power Density\_ BLE 2M\_MidCH20-2442



Power Density\_ BLE 1M\_HighCH39-2480



Power Density\_ BLE 2M\_HighCH39-2480



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## 12 ANTENNA REQUIREMENT

### 12.1 Standard Applicable:

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

### 12.2 Antenna Connected Construction:

The antenna is designed as permanently attached and no consideration of replacement. Please see EUT photo for details.

*~ End of Report ~*

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