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ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

FUJITSU CONNECTED TECHNOLOGIES Ltd. Applicant:

Chuorinkan 7-10-1 Yamato, Kanagawa 242-0007, Japan

Smart Phone Product Name:

FUJITSU Brand Name:

Model No.: F-42A

Model Difference: N/A

Report Number: ER/2020/40014

FCC ID: 2AQYEFMP178

FCC Rule Part: §15.247, Cat: DTS

Issue Date: May 8th, 2020

Date of Test: Apr. 14th, 2020 ~ May 4th, 2020

Date of EUT Received: Mar. 31st, 2020

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Electronics & Communication Laboratory The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10:2013 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits.

The test results of this report relate only to the tested sample identified in this report.

Approved By: ____ CHUN; CHIEH, CHEN

Chun Chieh Chen / Supervisor





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Revision History					
Report Number Revision Description Issue Date Remark					
ER/2020/40014	Rev.00	Original.	May 8th, 2020	Revised By: Yuri Tsai	

Note:

1 · Disclaimer

Antenna information is provided by the applicant, test results of this report are applicable to the sample EUT received.

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GENERAL INFORMATION

1.1Product Description

Product Name:	Smart Ph	none	
Brand Name:	FUJITSU		
Model No.:	F-42A		
Model Difference:	N/A		
Hardware Version:	V1.2.0		
Software Version:	V00R016Ve		
	3.8Vdc from Rechargeable Li-ion Battery		
Power Supply:	Battery:	Model No.:CA54310-0075 Supplier: FUJITSU CONNECTED TECHNOLOGIES LIMITED	

Radio Technology:	Bluetooth LE Single mode
Frequency Range:	2402 – 2480MHz
Channel number:	40 channels
Modulation type:	GFSK
Antenna Designation:	λ/4 Monopole Antenna, Peak Gain: -3.7dBi
Transmit Power:	1.27dBm

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1.2Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247 FCC KDB 558074 D01 15.247 Meas Guidance v05r02 ANSI C63.10:2013

1.3Test Facility

SGS Taiwan Ltd. Electronics & Communication Laboratory (TAF code 0513)

No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803

FCC Designation number: TW0001

1.4Special Accessories

There are no special accessories used while test was conducted.

1.5 Equipment Modifications

There was no modification incorporated into the EUT.

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SYSTEM TEST CONFIGURATION

2.1EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2EUT Exercise

An engineering test mode (software/firmware) that applicant provided was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme.

2.3Test Procedure

2.3.1Conducted Emissions

The EUT is a placed on a table which is 0.8 m above ground plane. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz. The CISPR Quasi-Peak and Average detector mode is employed. The two LISNs provide 50uH/50 ohm of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

2.3.2Conducted Test (RF)

The active antenna port of the unlicensed wireless device is connected to the spectrum analyzer with attenuator to protect the instrumentation. If a second antenna port is available, it is tested at one operating frequency, with other port(s) appropriately terminated, to verify it has similar output characteristics as the fully tested port.

2.3.3Radiated Emissions

The EUT is a placed on a turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this transmitter (EUT) was rotated through three orthogonal axes and 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.

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2.4 Measurement Results Explanation Example

2.4.1 Radiated Emission Test Sites For Measurements From 9 kHz To 30 MHz

Radiated emission below 30MHz is measured in a 9m*9m*6m semi-anechoic chamber. the measurements correspond to those obtained at an open-field test site.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

2.4.2 For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

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2.5Configuration of Tested System

Fig. 2-1 Conducted (Antenna Port) Emission Configuration

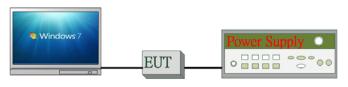


Fig 2-2 Radiated Emission



Fig 2-3 Conduction (AC Power Line) Radiated Emission

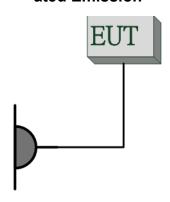


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Ca- ble	Power Cord
1	Bluetooth Test Software	N/A	N/A	N/A	N/A	N/A
2	DC Power Supply	Agilent	E3640A	MY40000811	N/A	N/A
3	Notebook	Lenovo	L430	R9-XFG0X	Shielded	Unshielded

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SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§15.207(a)	AC Power Line Conducted Emission	Compliant
§15.247(b) (3)	Peak Output Power	Compliant
§15.247(a)(2)	6dB Bandwidth	Compliant
§15.205 §15.209 §15.247(d)	Conducted Band Edge and Spurious Emission	Compliant
§15.205 §15.209 §15.247(d)	Radiated Band Edge and Spurious Emission	Compliant
§15.247(e)	Peak Power Density	Compliant
§15.203 §15.247(b)	Antenna Requirement	Compliant

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4 DESCRIPTION OF TEST MODES

4.1Operated in 2400 ~ 2483.5MHz Band

40 channels are provided for Bluetooth LE

ITEM	FREQUENCY	ITEM	FREQUENCY	ITEM	FREQUENCY	
1	2402 MHz	15	2430 MHz	29	2458 MHz	
2	2404 MHz	16	2432 MHz	30	2460 MHz	
3	2406 MHz	17	2434 MHz	31	2462 MHz	
4	2408 MHz	18	2436 MHz	32	2464 MHz	
5	2410 MHz	19	2438 MHz	33	2466 MHz	
6	2412 MHz	20	2440 MHz	34	2468 MHz	
7	2414 MHz	21	2442 MHz	35	2470 MHz	
8	2416MHz	22	2444 MHz	36	2472 MHz	
9	2418 MHz	23	2446 MHz	37	2474 MHz	
10	2420 MHz	24	2448 MHz	38	2476 MHz	
11	2422 MHz	25	2450 MHz	39	2478 MHz	
12	2424 MHz	26	2452 MHz	40	2480 MHz	
13	2426 MHz	27	2454 MHz			
14	2428 MHz	28	2456 MHz			

4.2The Worst Test Modes and Channel Details

- 1. The EUT has been tested under operating condition.
- 2. Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.
- 3. Investigation has been done on all the possible configurations for searching the worst case.

MODE	AVAILABLE FREQUENCY (MHz)	TESTED FREQUENCY (MHz)	MODULATION	DATA RATE (Mbps)
RADIATED EMISSION TEST (BELOW 1 GHz)				
Bluetooth LE	2402 to 2480	2442	GFSK	1
RADIATED EMISSION TEST (ABOVE 1 GHz)				
Bluetooth LE	2402 to 2480	2402, 2442, 2480	GFSK	1

Note: The field strength of radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for Bluetooth LE Transmitter for channel Low, Mid and High, the worst case E2 position was reported.

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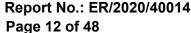
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ANTENNA PORT CONDUCTED MEASUREMENT					
MODE	AVAILABLE FREQUENCY (MHz)	TESTED FREQUENCY (MHz)	MODULATION	DATA RATE (Mbps)	
Bluetooth LE	2402 to 2480	2402, 2442, 2480	GFSK	1	

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MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 2.586 dB
Peak Output Power	+/- 0.84 dB
6dB Bandwidth	+/- 51.33 Hz
100 KHz Bandwidth Of Frequency Band Edges	+/- 0.84 dB
Peak Power Density	+/- 1.3 dB
Temperature	+/- 0.65 °C
Humidity	+/- 4.6 %
DC / AC Power Source	DC= +/- 0.13%, AC= +/- 0.2%

Radiated Spurious Emission Measurement Uncertainty			
	9kHz~30MHz: +-2.3dB		
	30MHz - 180MHz: +/- 3.37dB		
Polarization: Vertical	180MHz -417MHz: +/- 3.19dB		
Polarization. Vertical	0.417GHz-1GHz: +/- 3.19dB		
	1GHz - 18GHz: +/- 4.04dB		
	18GHz - 40GHz: +/- 4.04dB		
	9kHz~30MHz: +-2.3dB		
	30MHz - 167MHz: +/- 4.22dB		
Polarization: Horizontal	167MHz -500MHz: +/- 3.44dB		
Polarization. Horizontal	0.5GHz-1GHz: +/- 3.39dB		
	1GHz - 18GHz: +/- 4.08dB		
	18GHz - 40GHz: +/- 4.08dB		

Note:

- 1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
- 2. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

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6 CONDUCTED EMISSION TEST

6.1 Standard Applicable:

Frequency range within 150kHz to 30MHz shall not exceed the Limit table as below.

Frequency range	Limits dB(μ V)		
MHz	Quasi-peak	Average	
0.15 to 0.50	66 to 56	56 to 46	
0.50 to 5	56	46	
5 to 30	60	50	

Note

6.2Measurement Equipment Used:

Conducted Emission Test Site							
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.		
EMI Test Receiver	R&S	ESCI 7	1166.5950.07	Jul. 4th, 2019	Jul. 3rd, 2020		
LISN	SCHWARZ- BECK	NSLK 8127	8127-649	Jun. 3rd, 2020	Jun. 2nd, 2020		
Test Software	Farad	EZ-EMC	Ver. SGS-03A2	N.C.R	N.C.R		
Coaxial Cables	N/A	WK CE Cable	N/A	Jan. 2nd, 2020	Jan. 1st, 2021		

6.3EUT Setup:

- 1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
- The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
- 3. The LISN was connected with 120Vac/60Hz power source.

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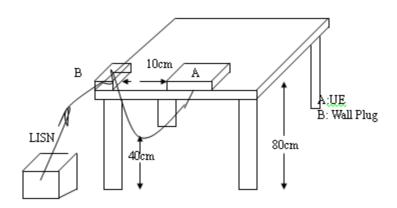
^{1.} The lower limit shall apply at the transition frequencies

^{2.}The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.





6.4Test SET-UP (Block Diagram of Configuration)



6.5Measurement Procedure:

- 1. The EUT was placed on a table which is 0.8m above ground plan.
- 2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 3. Repeat above procedures until all phases of power being supplied by given UE are completed

6.6Measurement Result:

Note: Refer to next page for measurement data and plots.

Note2: The * reveals the worst-case results that closet to the limit.

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23 (°C)/55%

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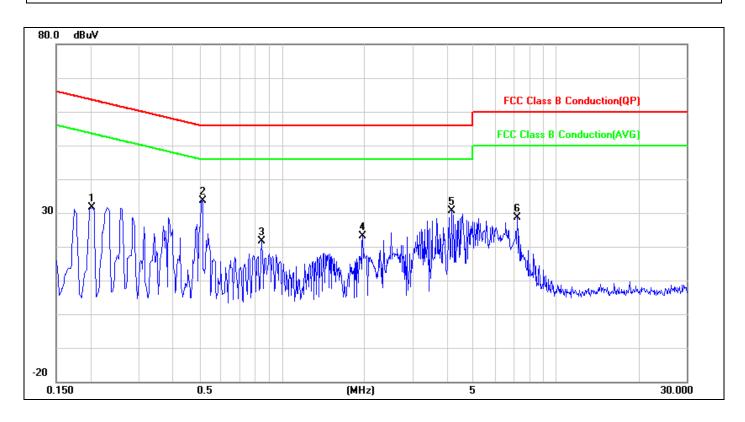
Temp.(°C)/Hum.(%):

AC POWER LINE CONDUCTED EMISSION TEST DATA

Description: Operation Date: 2020/04/29 Line: L1

AC 120V/60Hz Test By: **Test Voltage:** Neo

Report Num-ER/2020/40014 ber



No.	Mk.	Freq.	Reading	Factor	Measurement	Limit	Over	Detector
NO.	IVIK.	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	Detector
1		0.2020	31.64	0.01	31.65	63.53	-31.88	peak
2	*	0.5140	33.59	0.01	33.60	56.00	-22.40	peak
3		0.8460	21.60	0.02	21.62	56.00	-34.38	peak
4		1.9700	23.18	0.04	23.22	56.00	-32.78	peak
5		4.1780	30.61	0.14	30.75	56.00	-25.25	peak
6		7.2260	28.40	0.23	28.63	60.00	-31.37	peak

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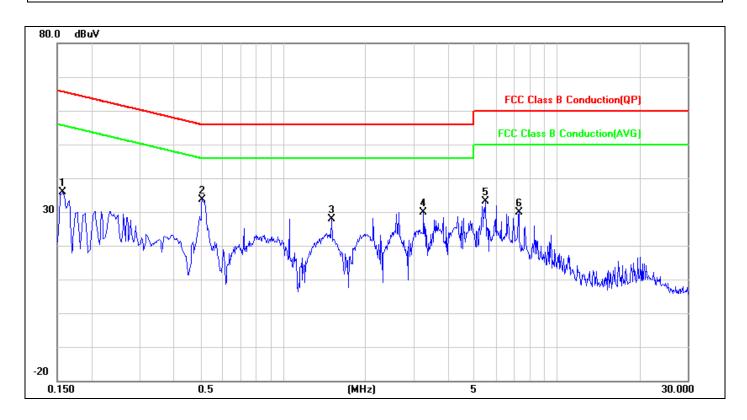
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Description: Operation Date: 2020/04/29

Line: Temp.(°C)/Hum.(%): 23(°C)/55%

AC 120V/60Hz Test By: **Test Voltage:** Neo

Report Num-ER/2020/40014 ber



No.	Mk.	Freq.	Reading	Factor	Measurement	Limit	Over	Detector
NO.	IVIK.	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	Detector
1		0.1580	35.84	0.00	35.84	65.57	-29.73	peak
2	*	0.5100	33.68	0.01	33.69	56.00	-22.31	peak
3		1.5100	27.86	0.03	27.89	56.00	-28.11	peak
4		3.2700	29.88	0.10	29.98	56.00	-26.02	peak
5		5.4820	32.90	0.20	33.10	60.00	-26.90	peak
6		7.2580	29.58	0.23	29.81	60.00	-30.19	peak

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7 PEAK OUTPUT POWER MEASUREMENT

7.1Standard Applicable:

For systems using digital modulation in the 2400-2483.5 MHz bands, the limit for peak output power is 1Watt.

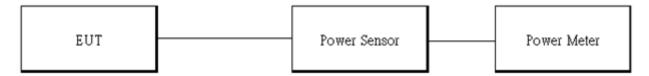
If the transmitting antenna of directional gain greater than 6dBi are used the peak output power form the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the Antenna exceeds 6dBi.

In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of Antenna exceeds 6dBi.

7.2Measurement Equipment Used:

Conducted Emission Test Site							
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.		
Power Meter	Anritsu	ML2496A	1804001	Feb. 20th, 2020	Feb. 19th, 2021		
Power Sensor	Anritsu	MA2411B	1726104	Feb. 20th, 2020	Feb. 19th, 2021		
Power Sensor	Anritsu	MA2411B	1726107	Feb. 20th, 2020	Feb. 19th, 2021		
DC Power Supply	Agilent	E3640A	MY40000811	Dec. 23th, 2019	Dec. 22th, 2020		
DC Block	Mini-Circuits	BLK-18-S+	1	Jan. 2nd, 2020	Jan. 1st, 2021		

7.3Test Set-up:



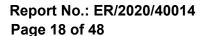
7.4Measurement Procedure:

- 1.Place the EUT on the table and set it in transmitting mode.
- 2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
- 3.Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter.
- 4. Record the max. Reading as observed from Power Meter.
- 5. Repeat above procedures until all test default channel measured was complete.

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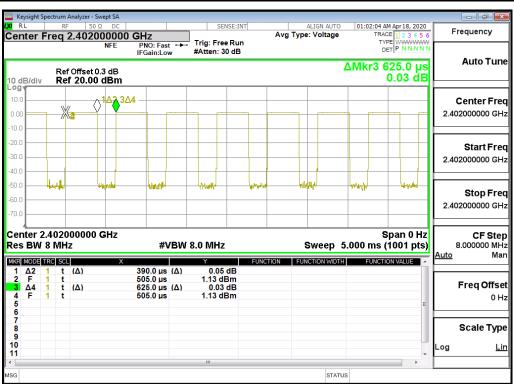
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7.5Duty Factor:

	Duty Cycle (%) = Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	7 /	VBW setting (kHz)
BLE	62.00	2.08	2.56	3.00



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7.6Output Power:

7.6.1 Peak & Avg

СН	Frequency (MHz)	Peak Power Output (dBm)	Required Limit
Low	2402	1.27	1 Watt = 30 dBm
Mid	2442	0.43	1 Watt = 30 dBm
High	2480	0.71	1 Watt = 30 dBm
СН	Frequency (MHz)	Max. Avg. Output include tune up tolerance Power (dBm)	Required Limit
Low	2402	1.20	1 Watt = 30 dBm
Mid	2442	0.40	1 Watt = 30 dBm
High	2480	0.69	1 Watt = 30 dBm

"Note: Measured by power meter, cable loss 0.84 dB + Duty cycle factor has been offseted to the power meter for Peak power measurement.

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8 6DB BANDWIDTH MEASUREMENT

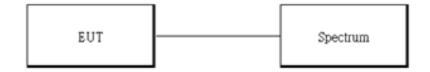
8.1 Standard Applicable

The minimum 6 dB bandwidth shall be at least 500 kHz.

8.2Measurement Equipment Used

Conducted Emission Test Site							
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.		
TYPE		NUMBER	NUMBER	CAL.			
DC Power Supply	Agilent	E3640A	MY40000811	Dec. 23th, 2019	Dec. 22th, 2020		
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY57120290	Feb. 20th, 2020	Feb. 19th, 2021		
DC Block	Mini-Circuits	BLK-18-S+	1	Jan. 2nd, 2020	Jan. 1st, 2021		

8.3Test Set-up:



8.4Measurement Procedure:

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
- 3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 4. For 6dB Bandwidth:
 - Set the spectrum analyzer as RBW=100 kHz, VBW= 3*RBW, Span = large enough to capture all products of the modulation process, Detector=Peak, Sweep=auto.
- 5. Mark the peak frequency and -6dB (upper and lower) frequency.
- 6. Repeat above procedures until all test default channel is completed

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8.5Measurement Result:

Frequency (MHz)	6dB BW (MHz)	Required BW (MHz)	Result
2402	0.69	> 0.5	PASS
2442	0.6893	> 0.5	PASS
2480	0.6896	> 0.5	PASS

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OBW 6dB_BLE_1M_LowCH00-2402







OBW 6dB_BLE_1M_MidCH20-2442



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CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

9.1 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, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

9.2Measurement Equipment Used:

Conducted Emission Test Site							
EQUIPMENT	EQUIPMENT MFR MODEL SERIAL LAST						
TYPE		NUMBER	NUMBER	CAL.			
DC Power Supply	Agilent	E3640A	MY40000811	Dec. 23th, 2019	Dec. 22th, 2020		
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY57120290	Feb. 20th, 2020	Feb. 19th, 2021		
DC Block	Mini-Circuits	BLK-18-S+	1	Jan. 2nd, 2020	Jan. 1st, 2021		

9.3Test SET-UP:



9.4Measurement Procedure

9.4.1 **Reference Level of Emission Limit:**

- 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.
- Set the RBW = 100kHz & VBW = 300 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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9.4.2 **Conducted Band Edge:**

- 1. To connect Antenna Port of EUT to Spectrum.
- 2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
- 3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 4. Set start to edge frequency, and stop frequency of spectrum analyzer so as to encompass the spectrum to be examined.
- 5. Set the spectrum analyzer as RBW=100 kHz, VBW=300 kHz, Detector = Peak, Sweep = auto
- **6.** Mark the highest reading of the emission as the reference level measurement.
- 7. Marker on frequency, 2399.9MHz and 2483.6MHz, and examine shall 100 kHz immediately outside the authorized (2400~2483.5MHz) be attenuated by 20dB at least relative to the maximum emission of power.
- 8. Repeat above procedures until all default test channel (low and high) was complete.

9.4.3 **Conducted Spurious Emission:**

- 1. To connect Antenna Port of EUT to Spectrum.
- 2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
- 3. Set RBW = 100 kHz & VBW=300 kHz, Detector = Peak, Sweep = Auto
- 4. Allow trace to fully stabilize.
- 5. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.
- 6. Repeat above procedures until all default test channel measured were complete.

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9.5Measurement Result

Reference Level of Limit

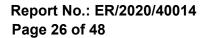
Residue Edver of Elling					
Frequency (MHz)	RF Power Density (dBm)	Reference Level of Limit = PSD - 20dB (dBm)			
2402	0.73	-19.27			
2442	-0.02	-20.02			
2480	0.18	-19.82			

NOTE: cable loss as 0.84dB that offsets in the spectrum

NOTE: Refer to next page for plots.

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Reference Level_BLE_1M_LowCH00-2402







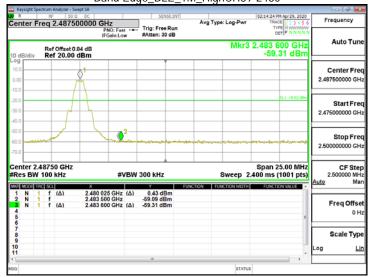
Reference Level_BLE_1M_HighCH39-2480



Band Edge_BLE_1M_LowCH00-2402



Band Edge_BLE_1M_HighCH39-2480

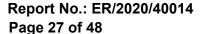


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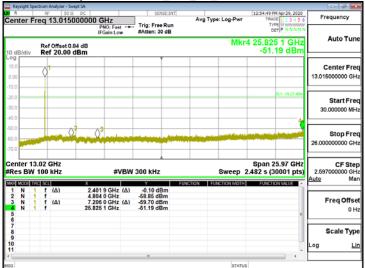
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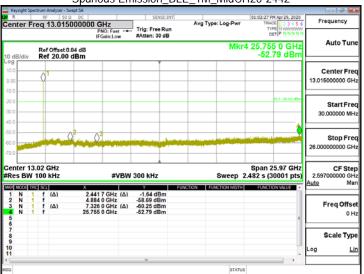




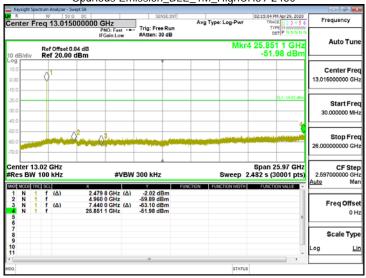
Spurious Emission_BLE_1M_LowCH00-2402



Spurious Emission_BLE_1M_MidCH20-2442



Spurious Emission_BLE_1M_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 limit as below.

And according to §15.33(a) (1) 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 (dB μ V/m) = 20 log Emission level (μ V/m)

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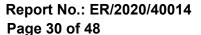
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10.2 Measurement Equipment Used

966 Chamber							
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.		
Horn Antenna	Schwarzbeck	BBHA9170	184	Dec. 25th, 2019	Dec. 24th, 2020		
Horn Antenna	Schwarzbeck	BBHA9120D	D803	Dec. 20th, 2019	Dec. 19th, 2020		
Bi-log Antenna	TESEO	CBL 6112D	35242 & AT-N0555	Jan. 13th, 2020	Jan. 12th, 2021		
Loop Antenna	ETS.LINDGREN	6502	148045	Oct. 15th, 2019	Oct. 14th, 2020		
Spectrum Analyzer	Agilent	E4446A	MY51100003	Oct. 23th, 2019	Oct. 22nd, 2020		
EMI Test Receiver	R&S	ESCI 7	1166.5950.07	Jul. 4th, 2019	Jul. 3rd, 2020		
Pre-Amplifier	EMC Instruments	EMC184045B	980135	Jan. 2nd, 2020	Jan. 1st, 2021		
Pre-Amplifier	EMC Instruments	EMC051825	980152	Jan. 2nd, 2020	Jan. 1st, 2021		
Pre-Amplifier	HP	8447D	2944A09469	Jan. 2nd, 2020	Jan. 1st, 2021		
Attenuator	Mini-Circuit	BW-S10W2+	4	Jan. 2nd, 2020	Jan. 1st, 2021		
Filter 2400-2483.5 MHz	EWT	EWT-14-0166	M1	Jan. 2nd, 2020	Jan. 1st, 2021		
High Pass Filter	WI	WHKX4.0/18G-10S S	22	Jan. 2nd, 2020	Jan. 1st, 2021		
Coaxial Cable	Huber Suhner	succoflex 102	MY2622/2	Jan. 2nd, 2020	Jan. 1st, 2021		
Coaxial Cable	Huber Suhner	succoflex 104A	800086/4a	Jan. 2nd, 2020	Jan. 1st, 2021		
Coaxial Cable	Huber Suhner	EMC 104-SM-SM-2000	160123	Jan. 2nd, 2020	Jan. 1st, 2021		

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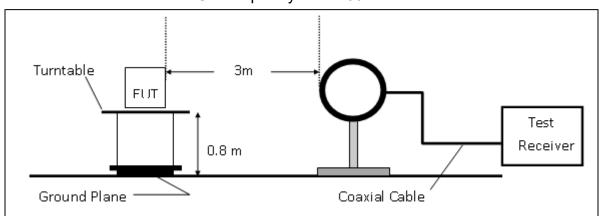
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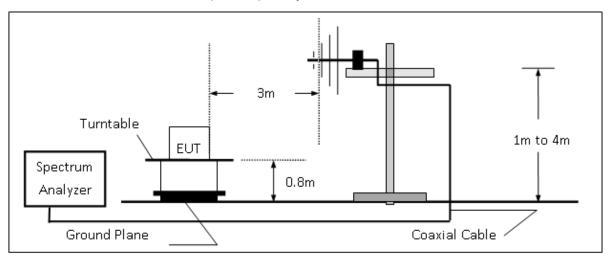


10.3 Test SET-UP

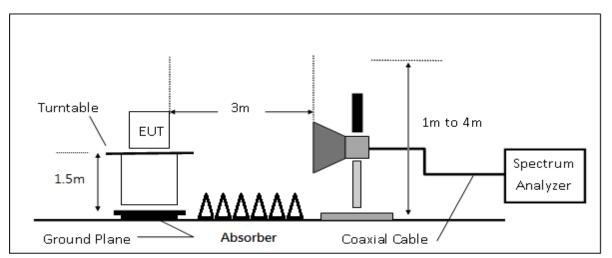
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(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.
- 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*log(uV/m)

Actual $FS(dB\mu V/m) = SPA$. Reading level $(dB\mu V) + Factor(dB)$

 $Factor(dB) = Antenna\ Factor(dB\mu V/m) + Cable\ Loss(dB) - Pre_Amplifier\ Gain(dB)$

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) 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

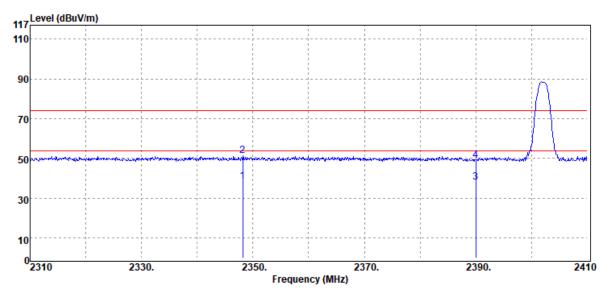
Report Number :ER/2020/40014 Test Date :2020-04-21

Operation Mode :BLE(1M) Temp./Humi. :23.9/72

Test Frequency :2402 MHz Antenna Pol. :VERTICAL

Test Mode :Bandedge CH Low Engineer :Neo

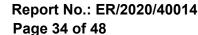
EUT Pol :E2 Plane



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
2348.20	Average	30.87	7.59	38.46	54.00	-15.54
2348.20	Peak	43.63	7.59	51.22	74.00	-22.78
2390.00	Average	30.61	7.46	38.07	54.00	-15.93
2390.00	Peak	41.53	7.46	48.99	74.00	-25.01

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Report Number :ER/2020/40014

Operation Mode :BLE(1M)

Test Frequency :2402 MHz

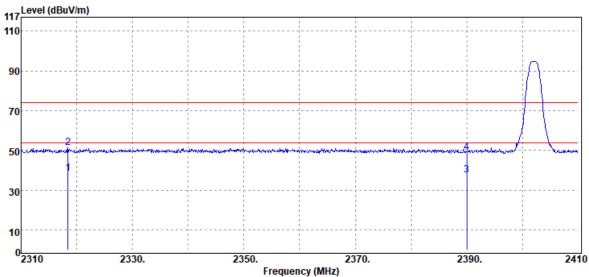
Test Mode :Bandedge CH Low

EUT Pol :E2 Plane **Test Date** :2020-04-21

Temp./Humi. :23.9/72

Antenna Pol. :HORIZONTAL

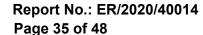
Engineer :Neo



	Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
	MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
	2318.40	Average	31.00	7.56	38.56	54.00	-15.44
	2318.40	Peak	43.72	7.56	51.28	74.00	-22.72
	2390.00	Average	30.34	7.46	37.80	54.00	-16.20
	2390.00	Peak	41.57	7.46	49.03	74.00	-24.97

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Report Number :ER/2020/40014

Operation Mode :BLE(1M)

Test Frequency :2480 MHz

Test Mode :Bandedge CH High

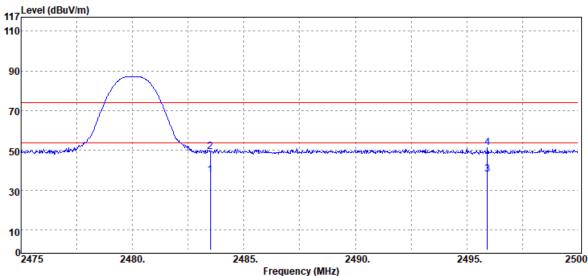
EUT Pol :E2 Plane

Test Date :2020-04-22

Temp./Humi. :23.1/68

Antenna Pol. :VERTICAL

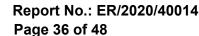
Engineer :Neo



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
2483.50	Average	30.38	7.46	37.84	54.00	-16.16
2483.50	Peak	41.83	7.46	49.29	74.00	-24.71
2495.93	Average	30.57	7.47	38.04	54.00	-15.96
2495.93	Peak	43.75	7.47	51.22	74.00	-22.78

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Report Number :ER/2020/40014

Operation Mode :BLE(1M)

Test Frequency :2480 MHz

Test Mode :Bandedge CH High

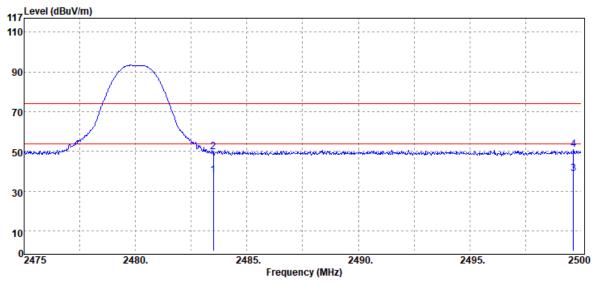
EUT Pol :E2 Plane

Test Date :2020-04-22

Temp./Humi. :23.1/68

Antenna Pol. :HORIZONTAL

Engineer :Neo



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
2483.50	Average	30.43	7.46	37.89	54.00	-16.11
2483.50	Peak	42.19	7.46	49.65	74.00	-24.35
2499.65	Average	31.26	7.47	38.73	54.00	-15.27
2499.65	Peak	43.44	7.47	50.91	74.00	-23.09

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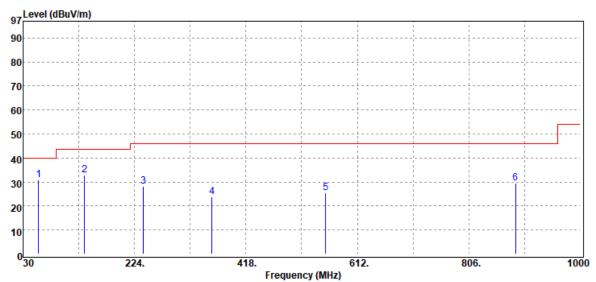
10.7.2 Radiated Spurious Emission from 30MHz to 1000MHz

Report Number :ER/2020/40014 Test Date :2020-04-22

Operation Mode :BLE(1M) Temp./Humi. :23.1/68
Test Frequency :2442 MHz Antenna Pol. :VERTICAL

Test Mode :Tx CH Mid Engineer :Neo

EUT Pol :E2 Plane

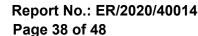


Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
57.16	Peak	47.40	-16.69	30.71	40.00	-9.29
136.70	Peak	44.38	-11.48	32.90	43.50	-10.60
239.52	Peak	38.29	-10.20	28.09	46.00	-17.91
358.83	Peak	30.56	-6.87	23.69	46.00	-22.31
556.71	Peak	29.70	-4.23	25.47	46.00	-20.53
887.48	Peak	28.76	0.92	29.68	46.00	-16.32

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Report Number :ER/2020/40014

Operation Mode :BLE(1M)

Test Frequency :2442 MHz

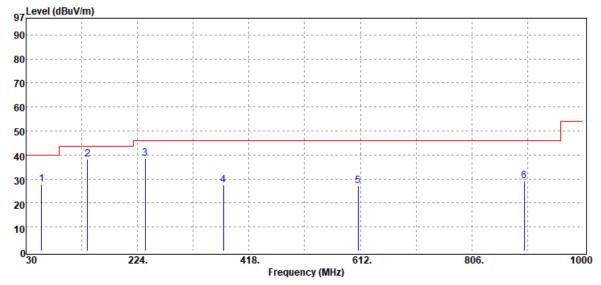
Test Mode :Tx CH Mid

EUT Pol :E2 Plane **Test Date** :2020-04-22

Temp./Humi. :23.1/68

Antenna Pol. :HORIZONTAL

Engineer :Neo



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
57.16	Peak	44.59	-16.69	27.90	40.00	-12.10
136.70	Peak	49.83	-11.48	38.35	43.50	-5.15
237.58	Peak	48.91	-10.35	38.56	46.00	-7.44
373.38	Peak	34.55	-6.92	27.63	46.00	-18.37
608.12	Peak	30.44	-3.29	27.15	46.00	-18.85
897.18	Peak	27.89	1.15	29.04	46.00	-16.96

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10.7.3 Radiated Spurious Emission above 1GHz

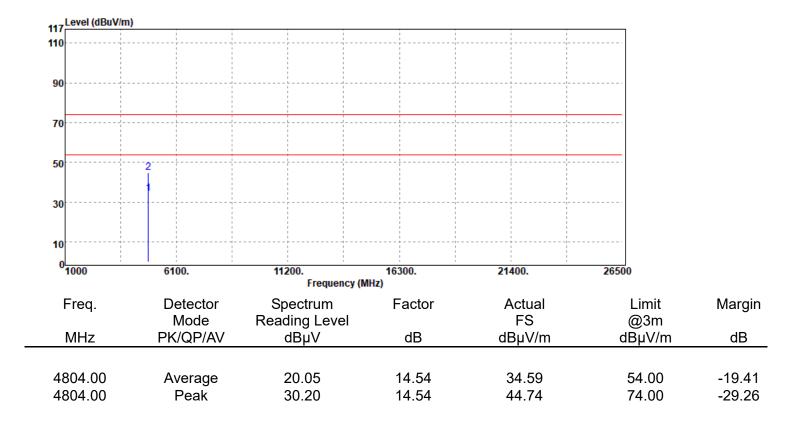
Report Number :ER/2020/40014 Test Date :2020-04-22

Operation Mode :BLE(1M) Temp./Humi. :23.1/68

Test Frequency :2402 MHz Antenna Pol. :VERTICAL

Test Mode :TX CH Low Engineer :Neo

EUT Pol :E2 Plane



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:E2 Plane

EUT Pol

Report No.: ER/2020/40014

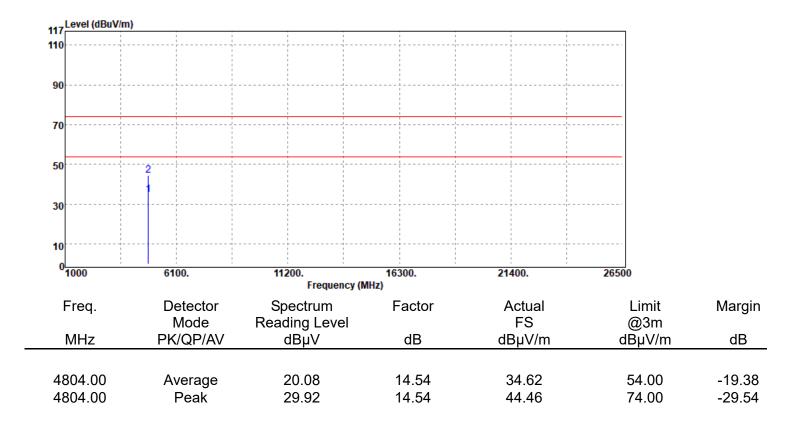
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Report Number :ER/2020/40014 Test Date :2020-04-22

Operation Mode :BLE(1M) Temp./Humi. :23.1/68

Test Frequency :2402 MHz Antenna Pol. :HORIZONTAL

Test Mode :TX CH Low Engineer :Neo



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:E2 Plane

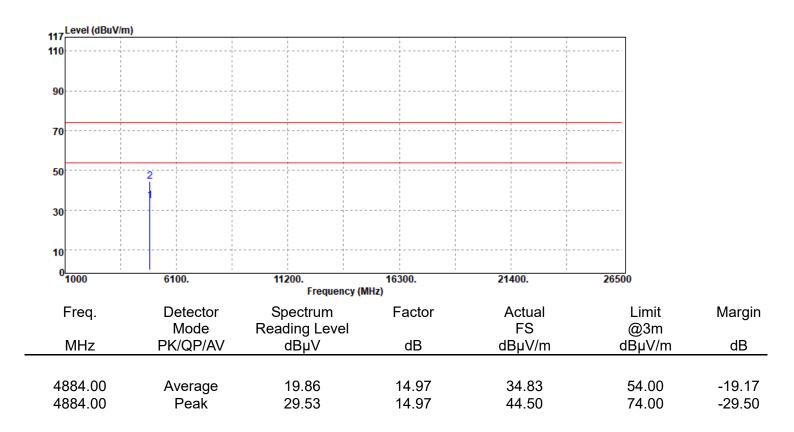
EUT Pol

Report Number :ER/2020/40014 Test Date :2020-04-22

Operation Mode :BLE(1M) Temp./Humi. :23.1/68

Test Frequency :2442 MHz Antenna Pol. :VERTICAL

Test Mode :TX CH Mid Engineer :Neo



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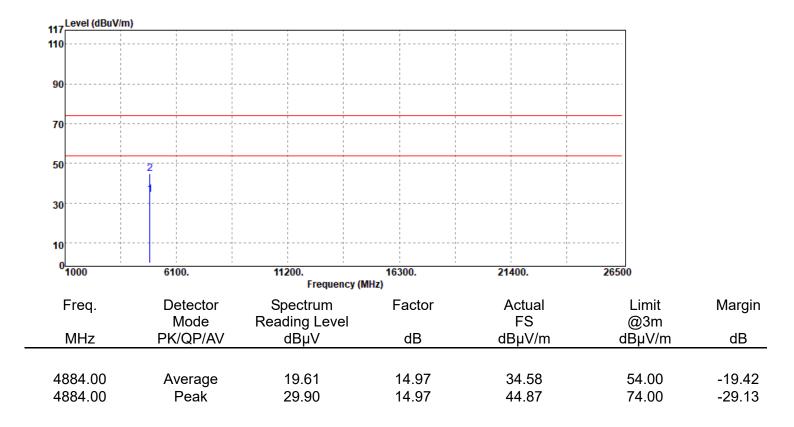
Report Number :ER/2020/40014 Test Date :2020-04-22

Operation Mode :BLE(1M) Temp./Humi. :23.1/68

Test Frequency :2442 MHz Antenna Pol. :HORIZONTAL

Test Mode :TX CH Mid Engineer :Neo

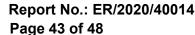
EUT Pol :E2 Plane



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:E2 Plane

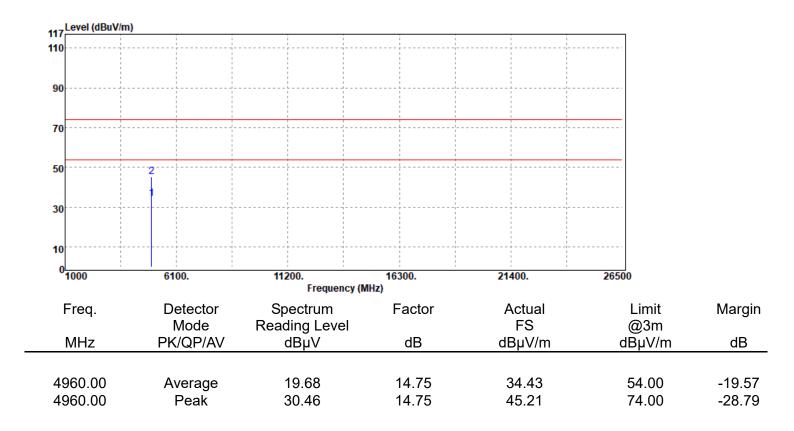
EUT Pol

Report Number :ER/2020/40014 Test Date :2020-04-22

Operation Mode :BLE(1M) Temp./Humi. :23.1/68

Test Frequency :2480 MHz Antenna Pol. :VERTICAL

Test Mode :TX CH High Engineer :Neo



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:E2 Plane

EUT Pol

Report No.: ER/2020/40014

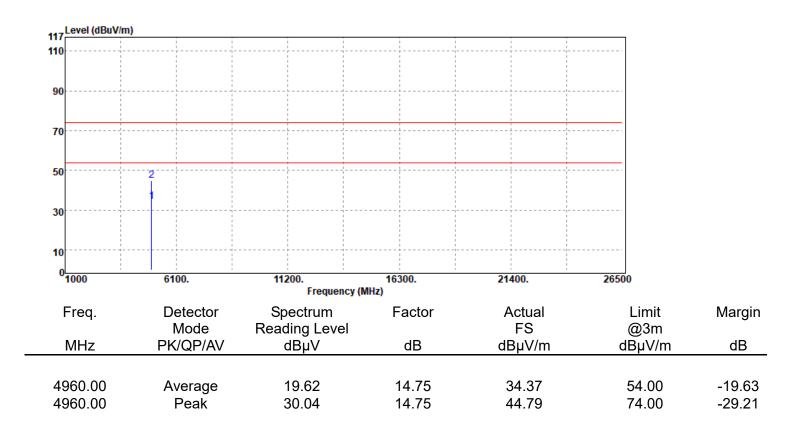
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Report Number :ER/2020/40014 Test Date :2020-04-22

Operation Mode :BLE(1M) Temp./Humi. :23.1/68

Test Frequency :2480 MHz Antenna Pol. :HORIZONTAL

Test Mode :TX CH High Engineer :Neo



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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							
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.		
TYPE		NUMBER	NUMBER	CAL.			
DC Power Supply	Agilent	E3640A	MY40000811	Dec. 23th, 2019	Dec. 22th, 2020		
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY57120290	Feb. 20th, 2020	Feb. 19th, 2021		
DC Block	Mini-Circuits	BLK-18-S+	1	Jan. 2nd, 2020	Jan. 1st, 2021		

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:

Frequency (MHz)	RF Power Density (dBm)	Maximum Limit (dBm)	Result
2402	-14.17	8	PASS
2442	-14.94	8	PASS
2480	-14.63	8	PASS

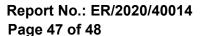
NOTE: cable loss as 0.84dB that offsets in the spectrum

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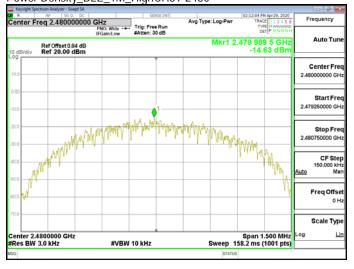
Power Density_BLE_1M_LowCH00-2402



Power Density_BLE_1M_MidCH20-2442



Power Density_BLE_1M_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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