

FCC REPORT

(BLE)

Applicant: HMD global Oy

Address of Applicant: Bertel Jungin aukio 9, 0260 0 Espoo, Finland

Equipment Under Test (EUT)

Product Name: Smart Phone

Model No.: TA-1358

Trade mark: NOKIA

FCC ID: 2AJOTTA-1358

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247

Date of sample receipt: 19 Aug., 2021

Date of Test: 20 Aug., to 28 Aug., 2021

Date of report issued: 16 Sep., 2021

Test Result: PASS *

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Bruce Zhang
Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the JYT product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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2 Version

Version No.	Date	Description
00	16 Sep., 2021	Original

According to the declaration from the applicant, the models: TA-1361 and TA-1358 are identical in specifications, only different SIM adapter, TA-1361 supports dual sim mode, TA-1358 supports only single sim mode.

Therefore in this report all items do not need to retest and all test data in this report are based on the previous report with report number: JYTSZB-R12-2101719

Tested by:

Mike.ou

Test Engineer

Date:

16 Sep., 2021

Reviewed by:

Winner Zhang

Project Engineer

Date:

16 Sep., 2021

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4 Test Summary

Test Items	Section in CFR 47	Test Data	Result
Antenna requirement	15.203 & 15.247 (b)	See Section 6.1	Pass
AC Power Line Conducted Emission	15.207	See Section 6.2	Pass
Conducted Peak Output Power	15.247 (b)(3)	Refer to the report: SRTC2021-9004(F)-21082803(E)	Refer to the report: SRTC2021-9004(F)-21082803(E)
6dB Emission Bandwidth	15.247 (a)(2)	Refer to the report: SRTC2021-9004(F)-21082803(E)	Refer to the report: SRTC2021-9004(F)-21082803(E)
Power Spectral Density	15.247 (e)	Refer to the report: SRTC2021-9004(F)-21082803(E)	Refer to the report: SRTC2021-9004(F)-21082803(E)
Conducted Band Edge	15.247 (d)	Refer to the report: SRTC2021-9004(F)-21082803(E)	Refer to the report: SRTC2021-9004(F)-21082803(E)
Radiated Band Edge		See Section 6.3.1	Pass
Conducted Spurious Emission	15.205 & 15.209 & 15.247 (d)	Refer to the report: SRTC2021-9004(F)-21082803(E)	Refer to the report: SRTC2021-9004(F)-21082803(E)
Radiated Spurious Emission		See Section 6.4.1	Pass
Remark: 1. Pass: The EUT complies with the essential requirements in the standard. 2. The report: SRTC2021-9004(F)-21082803(E), issued by The State Radio_monitoring_center Testing Center.			
Test Method:	ANSI C63.10-2013 KDB 558074 D01 15.247 Meas Guidance v05r02		

5 General Information

5.1 Client Information

Applicant:	HMD global Oy
Address:	Bertel Jungin aukio 9, 02600 Espoo, Finland
Manufacturer:	HMD global Oy
Address:	Bertel Jungin aukio 9, 02600 Espoo, Finland

5.2 General Description of E.U.T.

Product Name:	Smart Phone
Model No.:	TA-1358
Operation Frequency:	2402-2480 MHz
Channel numbers:	40
Channel separation:	2 MHz
Modulation technology:	GFSK
Data speed :	1Mbps
Antenna Type:	Internal Antenna
Antenna gain:	-2.5dBi
Power supply:	Rechargeable Lithium ion Polymer Battery DC3.85V, 4.85Ah
AC adapter:	Adapter 1: Model: TN-050200U3, TN-050200E3, TN-050200C3A Input: AC100-240V, 50/60Hz, 0.35A Output: DC 5.0V, 2.0A 10.0W Note: Only the pins are different between different models Adapter 2: Model: TN-050200U3, TN-050200A3, TN-050200C3A Input: AC100-240V, 50/60Hz, 0.35A Output: DC 5.0V, 2.0A 10.0W Note: Only the pins are different between different models Adapter 3: Model: AD-010A, AD-010X Input: AC100-240V, 50/60Hz, 0.35A Output: DC 5.0V, 2.0A 10.0W Note: Only the pins are different between different models
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

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

Note:
In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test. Channel No. 0, 20 & 39 were selected as Lowest, Middle and Highest channel.

5.3 Test environment and mode

Operating Environment:	
Temperature:	24.0 °C
Humidity:	54 % RH
Atmospheric Pressure:	1010 mbar
Test mode:	
Transmitting mode	Keep the EUT in continuous transmitting with modulation

Radiated Emission: The sample was placed 0.8m (below 1GHz)/1.5m (above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages. Duty cycle setting during the transmission is 100% with maximum power setting for all modulations.

5.4 Description of Support Units

The EUT has been tested as an independent unit.

5.5 Measurement Uncertainty

Parameter	Expanded Uncertainty (Confidence of 95%(U = 2Uc(y)))
Conducted Emission (9kHz ~ 30MHz)	±2.62 dB (k=2)
Radiated Emission (9kHz ~ 30MHz) (3m SAC)	±3.13 dB
Radiated Emission (30MHz ~ 1000MHz) (3m SAC)	±4.45 dB
Radiated Emission (1GHz ~ 18GHz) (3m SAC)	±5.34 dB
Radiated Emission (18GHz ~ 40GHz) (3m SAC)	±5.34 dB

Note: The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.26-2015. All the measurement uncertainty value were shown with a coverage k=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

5.6 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **FCC - Designation No.: CN1211**

JianYan Testing Group Shenzhen Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.

- **ISED – CAB identifier.: CN0021**

The 3m Semi-anechoic chamber of JianYan Testing Group Shenzhen Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

- **A2LA - Registration No.: 4346.01**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: <https://portal.a2la.org/scopepdf/4346-01.pdf>

5.7 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd.

Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.

Tel: +86-755-23118282, Fax: +86-755-23116366

Email: info-JYTee@lets.com, Website: <http://www.ccis-cb.com>

5.8 Test Instruments list

Radiated Emission:					
Test Equipment	Manufacturer	Model No.	Management Number	Cal.Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m SAC	SAEMC	9m*6m*6m	WXJ001-1	01-19-2021	01-18-2024
BiConiLog Antenna	SCHWARZBECK	VULB9163	WXJ002	03-03-2021	03-02-2022
Biconical Antenna	SCHWARZBECK	VUBA9117	WXJ002-1	06-20-2021	06-19-2022
Horn Antenna	SCHWARZBECK	BBHA9120D	WXJ002-2	03-03-2021	03-02-2022
Horn Antenna	SCHWARZBECK	BBHA9120D	WXJ002-3	06-18-2021	06-17-2022
Loop Antenna	SCHWARZBECK	FMZB 1519 B	WXJ002-4	03-07-2021	03-06-2022
Pre-amplifier (30MHz ~ 1GHz)	HP	8447D	WXG001-2	03-07-2021	03-06-2022
Pre-amplifier (1GHz ~ 18GHz)	SKET	LNPA_0118G-50	WXG001-3	03-07-2021	03-06-2022
Pre-amplifier (18GHz ~ 40GHz)	RF System	TRLA-180400G45B	WXG001-9	03-07-2021	03-06-2022
EMI Test Receiver	Rohde & Schwarz	ESRP7	WXJ003-1	03-03-2021	03-02-2022
Spectrum analyzer	Rohde & Schwarz	FSP30	WXJ004	03-03-2021	03-02-2022
Spectrum Analyzer	KEYSIGHT	N9010B	WXJ004-2	11-27-2020	11-26-2021
Coaxial Cable (30MHz ~ 1GHz)	JYT	JYT3M-1G-NN-8M	WXG001-4	03-07-2021	03-06-2022
Coaxial Cable (1GHz ~ 18GHz)	JYT	JYT3M-18G-NN-8M	WXG001-5	03-07-2021	03-06-2022
Coaxial Cable (9kHz ~ 30MHz)	JYT	JYT3M-1G-BB-5M	WXG001-6	03-07-2021	03-06-2022
Coaxial Cable (1GHz ~ 18GHz)	JYT	JYT3M-40G-SS-8M	WXG001-7	03-07-2021	03-06-2022
RF Switch Unit	Tonscend	JS0806-F	WXJ089	N/A	
Test Software	Tonscend	TS+	Version: 3.0.0.1		

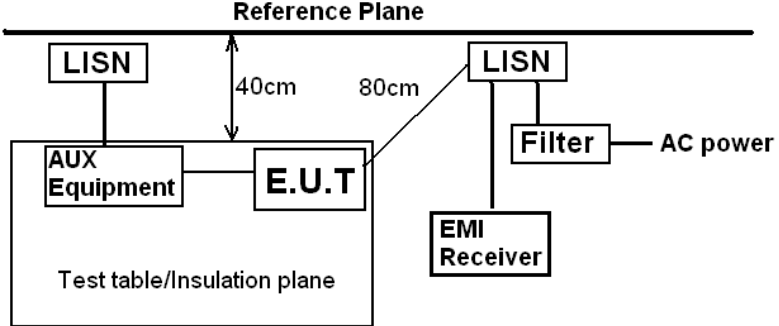
Conducted Emission:					
Test Equipment	Manufacturer	Model No.	Management Number	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
EMI Test Receiver	Rohde & Schwarz	ESCI	WXJ003	03-03-2021	03-02-2022
LISN	Rohde & Schwarz	ENV432	WXJ005-2	04-06-2021	04-05-2022
LISN	Rohde & Schwarz	ESH3-Z5	WXJ005-1	06-17-2020	06-16-2022
Coaxial Cable	JYT	JYTCE-1G-NN-2M	WXG003-1	03-03-2021	03-02-2022
RF Switch	Top Precision	RSU0301	WXG003	N/A	N/A
EMI Test Software	AUDIX	E3	Version: 6.110919b		

6 Test results and Measurement Data

6.1 Antenna requirement:

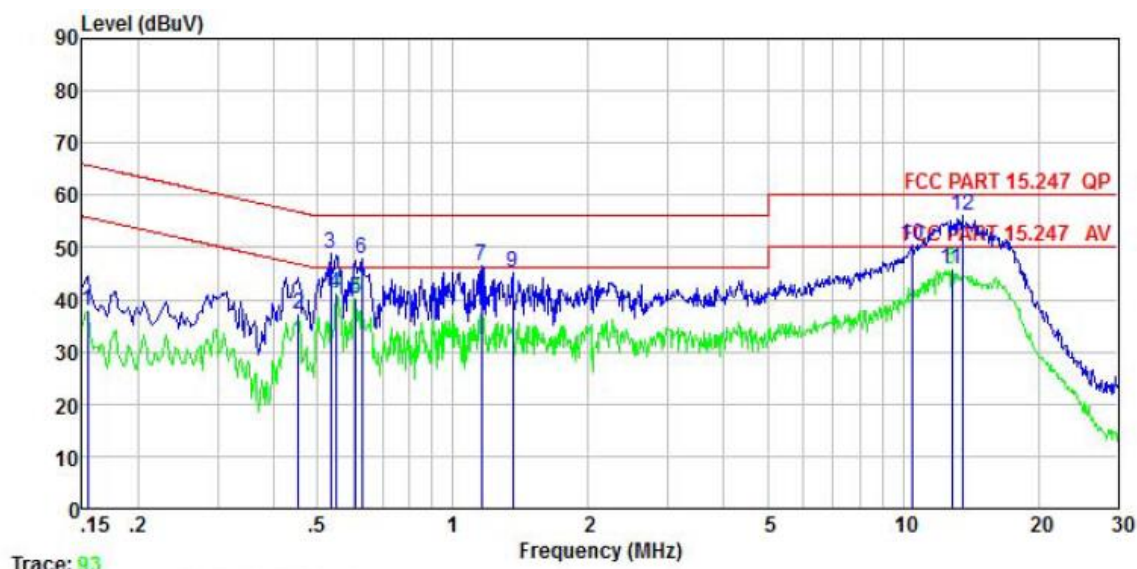
Standard requirement:	FCC Part 15 C Section 15.203 /247(b)
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. 15.247(b) (4) requirement: (4) The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.	
E.U.T Antenna:	
The BLE antenna is an Internal antenna which cannot replace by end-user, the best-case gain of the antenna is -2.6 dBi.	

6.2 Conducted Emission

Test Requirement:	FCC Part 15 C Section 15.207		
Test Frequency Range:	150 kHz to 30 MHz		
Class / Severity:	Class B		
Receiver setup:	RBW=9kHz, VBW=30kHz		
Limit:	Frequency range (MHz)	Limit (dBuV)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
* Decreases with the logarithm of the frequency.			
Test procedure:	- The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.), which provides a 50ohm/50uH coupling impedance for the measuring equipment. - The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). - Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10(latest version) on conducted measurement.		
Test setup:	 Remark: E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m		
Test Instruments:	Refer to section 5.8 for details		
Test mode:	Refer to section 5.3 for details		
Test results:	Passed		
Remark:	- Pre-Scan all adapter and all modulation , And the report only reflects the worst mode - The test data in this report are based on the previous report with report number: JYTSZB-R12-2101719		

Measurement Data:

Product name:	Smart Phone	Product model:	TA-1361
Test by:	Mike	Test mode:	BLE Tx mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5°C Humi: 55%

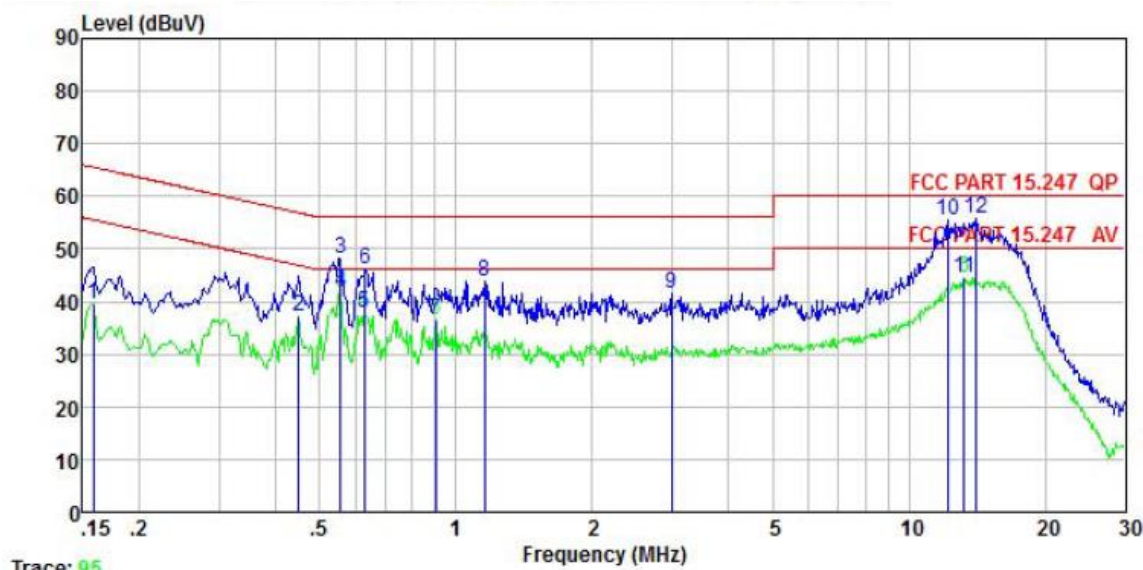


	Freq	Read Level	LISN Factor	Aux Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dB	
1	0.154	27.73	10.22	-0.06	0.01	37.90	55.78	-17.88	Average
2	0.454	26.90	10.28	-0.01	0.03	37.20	46.80	-9.60	Average
3	0.535	38.94	10.29	-0.36	0.03	48.90	56.00	-7.10	QP
4	0.549	31.38	10.29	-0.36	0.02	41.33	46.00	-4.67	Average
5	0.608	30.39	10.30	-0.38	0.02	40.33	46.00	-5.67	Average
6	0.627	37.88	10.30	-0.38	0.02	47.82	56.00	-8.18	QP
7	1.160	35.67	10.32	0.29	0.08	46.36	56.00	-9.64	QP
8	1.160	29.32	10.32	0.29	0.08	40.01	46.00	-5.99	Average
9	1.359	34.78	10.32	0.11	0.12	45.33	56.00	-10.67	QP
10	10.452	37.70	10.62	2.12	0.12	50.56	60.00	-9.44	QP
11	12.852	31.91	10.70	2.95	0.11	45.67	50.00	-4.33	Average
12	13.551	41.95	10.73	3.18	0.12	55.98	60.00	-4.02	QP

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Receiver Read level + LISN Factor + Aux Factor + Cable Loss.

Product name:	Smart Phone	Product model:	TA-1361
Test by:	Mike	Test mode:	BLE Tx mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Neutral
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5°C Humi: 55%



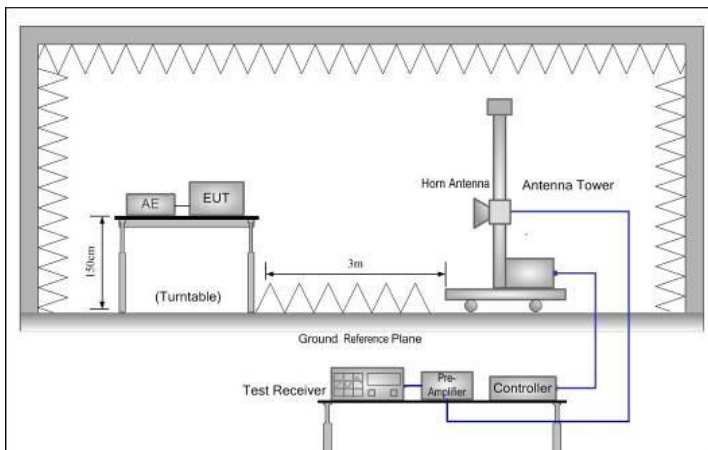
	Freq	Read Level	LISN Factor	Aux Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dB	
1	0.158	29.30	10.20	0.01	0.01	39.52	55.56	-16.04	Average
2	0.449	26.93	10.27	-0.01	0.03	37.22	46.89	-9.67	Average
3	0.555	37.87	10.29	0.03	0.02	48.21	56.00	-7.79	QP
4	0.555	31.60	10.29	0.03	0.02	41.94	46.00	-4.06	Average
5	0.627	27.51	10.29	0.04	0.02	37.86	46.00	-8.14	Average
6	0.630	35.80	10.29	0.04	0.02	46.15	56.00	-9.85	QP
7	0.904	26.23	10.31	0.07	0.04	36.65	46.00	-9.35	Average
8	1.160	33.25	10.31	0.10	0.08	43.74	56.00	-12.26	QP
9	2.993	30.77	10.34	0.31	0.07	41.49	56.00	-14.51	QP
10	12.188	42.43	10.66	2.23	0.10	55.42	60.00	-4.58	QP
11	13.267	31.09	10.69	2.57	0.11	44.46	50.00	-5.54	Average
12	14.063	42.01	10.71	2.84	0.12	55.68	60.00	-4.32	QP

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Receiver Read level + LISN Factor + Aux Factor + Cable Loss.

6.3 Band Edge

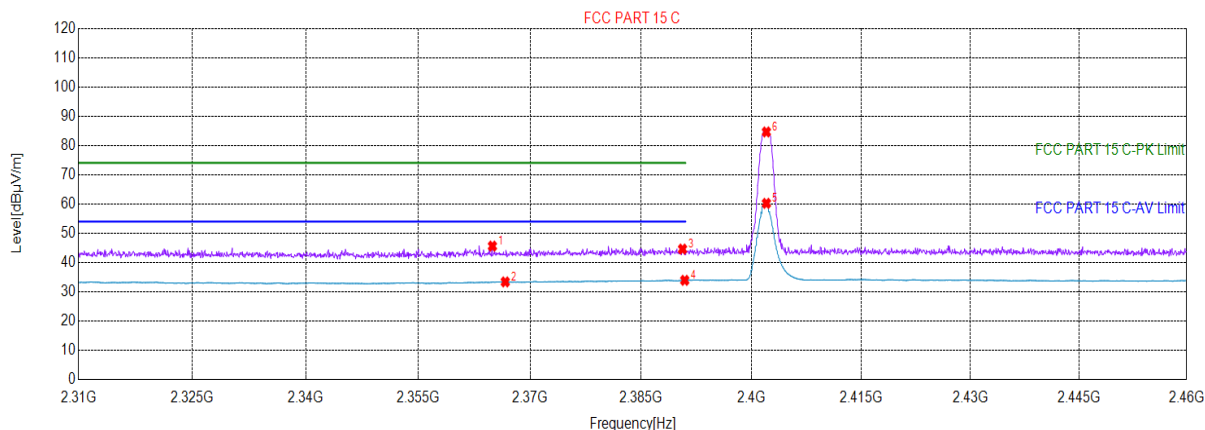
6.3.1 Radiated Emission Method

Test Requirement:	FCC Part 15 C Section 15.205 and 15.209				
Test Frequency Range:	2310 MHz to 2390 MHz and 2483.5MHz to 2500 MHz				
Test Distance:	3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Remark
	Above 1GHz	Peak RMS	1MHz 1MHz	3MHz 3MHz	Peak Value Average Value
Limit:	Frequency	Limit (dBuV/m @3m)		Remark	
	Above 1GHz	54.00 74.00		Average Value Peak Value	
Test Procedure:	1. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10 dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10 dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.				
Test setup:					
Test Instruments:	Refer to section 5.8 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Passed				
Remark:	The test data in this report are based on the previous report with report number: JYTSZB-R12-2101719				

Product Name:	Smart Phone	Product Model:	TA-1361
Test By:	Mike	Polarization:	Vertical
Test Voltage:	AC 120V/60Hz	Environment:	Temp: 24℃ Humi: 57%

BLE_1M_Channel 0

Test Graph



★ PK Detector ★ AV Detector

Suspected List

Suspected List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2364.92	38.11	45.60	7.49	74.00	28.40	261	302	Vertical
2	2366.65	25.84	33.37	7.53	54.00	20.63	320	211	Vertical
3	2390.59	36.45	44.58	8.13	74.00	29.42	272	26	Vertical
4	2390.89	25.78	33.91	8.13	54.00	20.09	275	271	Vertical
5	2402.00	51.86	60.21	8.35	0.00	-60.21	261	22	Vertical
6	2402.00	76.25	84.60	8.35	0.00	-84.60	288	132	Vertical

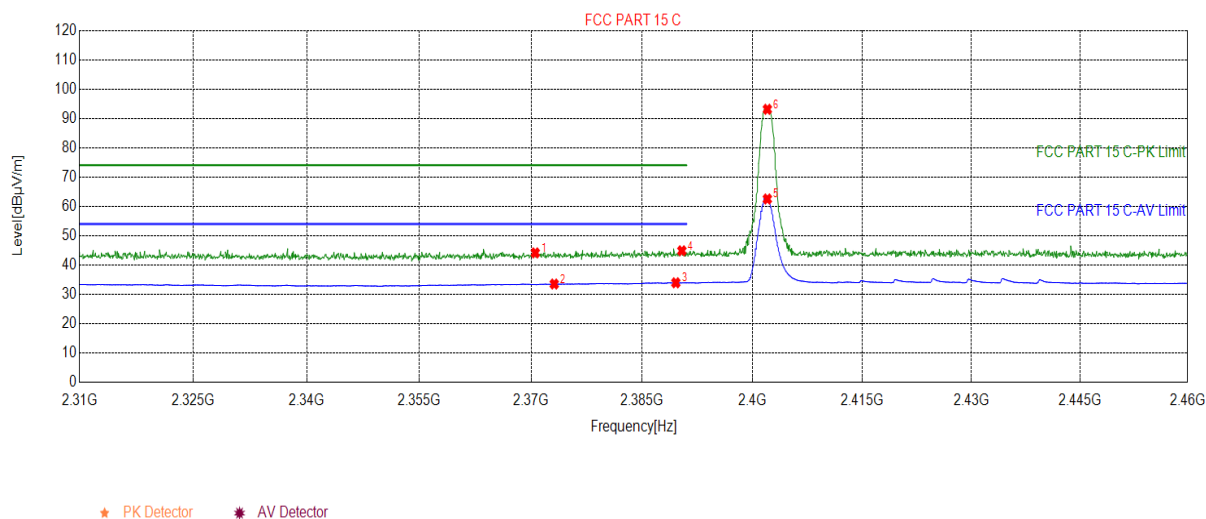
Remark:

1. Final Level = Receiver Read level + Factor (Antenna Factor + Cable Loss – Preamplifier Factor).
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product Name:	Smart Phone	Product Model:	TA-1361
Test By:	Mike	Polarization:	Horizontal
Test Voltage:	AC 120V/60Hz	Environment:	Temp: 24℃ Huni: 57%

BLE_1M_Channel 0

Test Graph



Suspected List

Suspected List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2370.55	36.51	44.14	7.63	74.00	29.86	163	321	Horizontal
2	2373.10	25.82	33.51	7.69	54.00	20.49	152	302	Horizontal
3	2389.53	25.83	33.93	8.10	54.00	20.07	172	162	Horizontal
4	2390.36	36.73	44.85	8.12	74.00	29.15	155	107	Horizontal
5	2402.00	54.16	62.51	8.35	0.00	-62.51	167	196	Horizontal
6	2402.00	84.74	93.09	8.35	0.00	-93.09	169	5	Horizontal

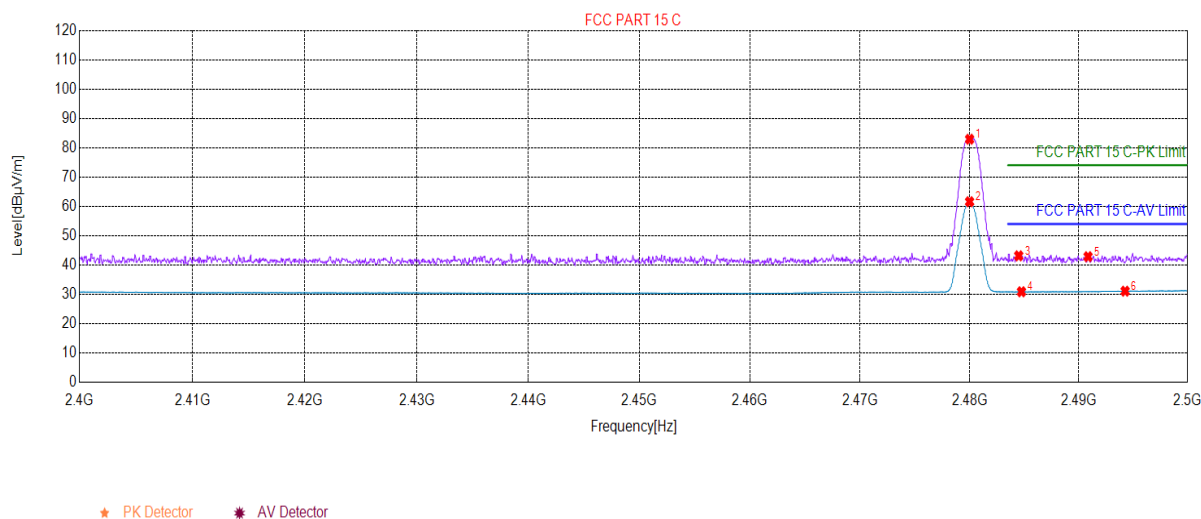
Remark:

- Final Level = Receiver Read level + Factor (Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

Product Name:	Smart Phone	Product Model:	TA-1361
Test By:	Mike	Polarization:	Vertical
Test Voltage:	AC 120V/60Hz	Environment:	Temp: 24℃ Huni: 57%

BLE_1M_Channel 39

Test Graph



Suspected List

Suspected List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480.00	76.10	82.89	6.79	0.00	-82.89	263	21	Vertical
2	2480.00	54.79	61.58	6.79	0.00	-61.58	242	6	Vertical
3	2484.49	36.35	43.14	6.79	74.00	30.86	257	106	Vertical
4	2484.74	24.09	30.88	6.79	54.00	23.12	281	315	Vertical
5	2490.84	36.04	42.85	6.81	74.00	31.15	269	289	Vertical
6	2494.24	24.20	31.08	6.88	54.00	22.92	233	216	Vertical

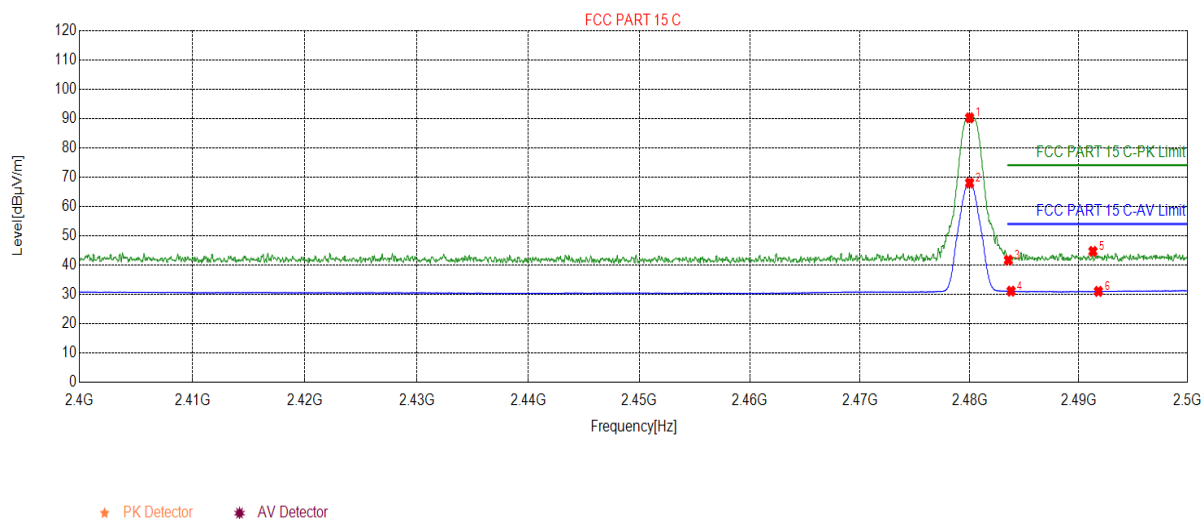
Remark:

- Final Level = Receiver Read level + Factor (Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

Product Name:	Smart Phone	Product Model:	TA-1361
Test By:	Mike	Polarization:	Horizontal
Test Voltage:	AC 120V/60Hz	Environment:	Temp: 24℃ Humi: 57%

BLE_1M_Channel 39

Test Graph



Suspected List

Suspected Lis									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480.00	83.38	90.17	6.79	0.00	-90.17	175	2	Horizontal
2	2480.00	61.18	67.97	6.79	0.00	-67.97	206	212	Horizontal
3	2483.54	34.87	41.66	6.79	74.00	32.34	272	151	Horizontal
4	2483.79	24.30	31.09	6.79	54.00	22.91	186	261	Horizontal
5	2491.29	37.83	44.65	6.82	74.00	29.35	126	255	Horizontal
6	2491.79	24.18	31.01	6.83	54.00	22.99	106	110	Horizontal

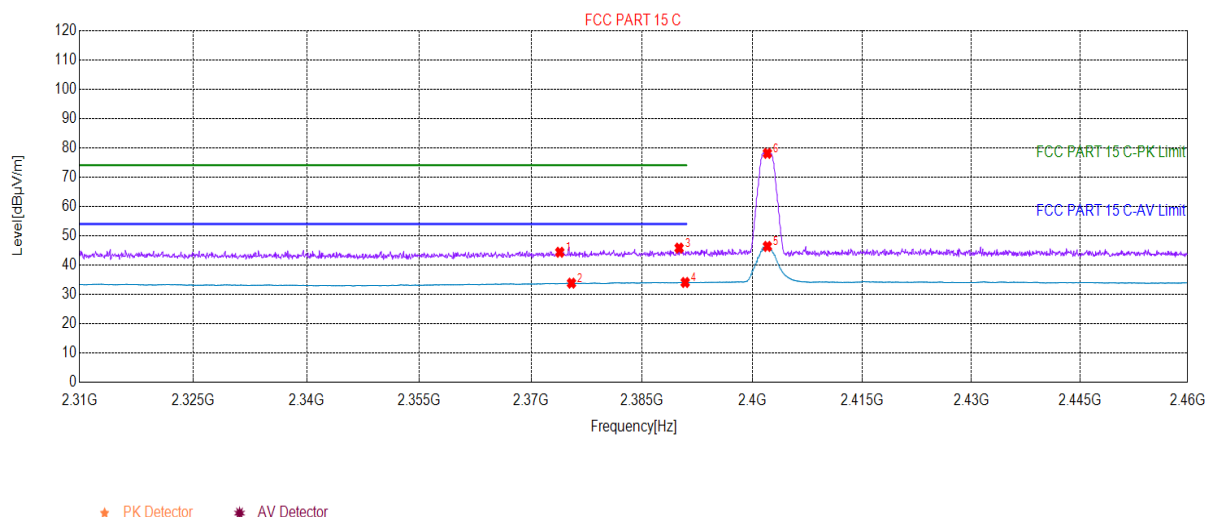
Remark:

- Final Level = Receiver Read level + Factor (Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

Product Name:	Smart Phone	Product Model:	TA-1361
Test By:	Mike	Polarization:	Vertical
Test Voltage:	AC 120V/60Hz	Environment:	Temp: 24℃ Humi: 57%

BLE_2M_Channel 0

Test Graph



Suspected List

Suspected List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2373.85	36.64	44.35	7.71	74.00	29.65	216	39	Vertical
2	2375.43	26.05	33.80	7.75	54.00	20.20	252	152	Vertical
3	2389.99	37.67	45.78	8.11	74.00	28.22	231	62	Vertical
4	2390.81	25.91	34.04	8.13	54.00	19.96	278	162	Vertical
5	2402.00	37.99	46.34	8.35	0.00	-46.34	211	188	Vertical
6	2402.00	69.72	78.07	8.35	0.00	-78.07	264	169	Vertical

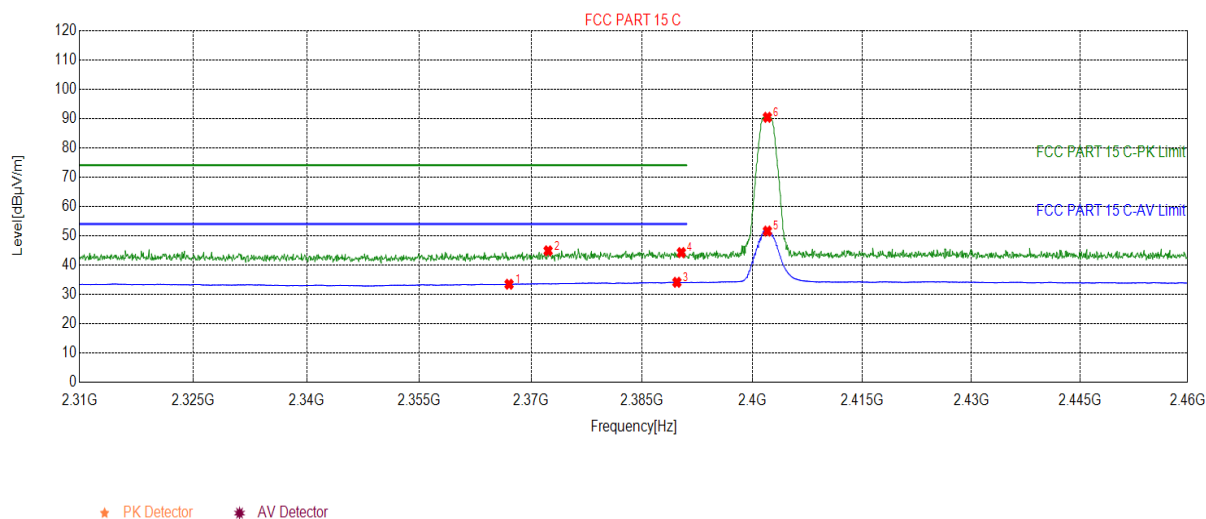
Remark:

- Final Level = Receiver Read level + Factor (Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

Product Name:	Smart Phone	Product Model:	TA-1361
Test By:	Mike	Polarization:	Horizontal
Test Voltage:	AC 120V/60Hz	Environment:	Temp: 24℃ Huni: 57%

BLE_2M_Channel 0

Test Graph



Suspected List

Suspected List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2367.02	25.89	33.43	7.54	54.00	20.57	263	261	Horizontal
2	2372.28	37.18	44.85	7.67	74.00	29.15	241	25	Horizontal
3	2389.68	26.00	34.10	8.10	54.00	19.90	125	9	Horizontal
4	2390.29	36.11	44.23	8.12	74.00	29.77	152	209	Horizontal
5	2402.00	43.21	51.56	8.35	0.00	-51.56	133	173	Horizontal
6	2402.00	82.00	90.35	8.35	0.00	-90.35	200	18	Horizontal

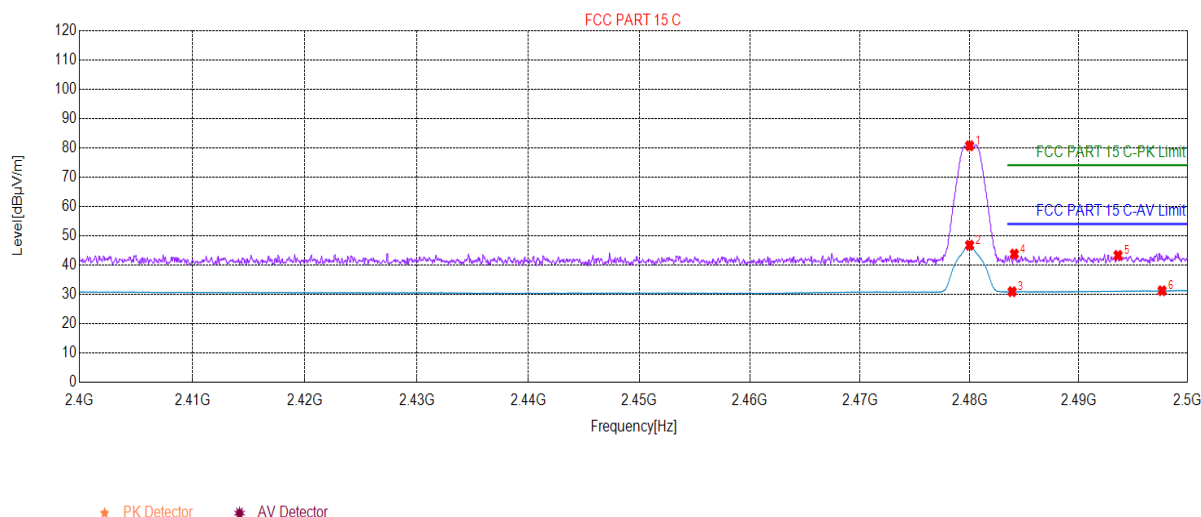
Remark:

- Final Level = Receiver Read level + Factor (Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

Product Name:	Smart Phone	Product Model:	TA-1361
Test By:	Mike	Polarization:	Vertical
Test Voltage:	AC 120V/60Hz	Environment:	Temp: 24℃ Huni: 57%

BLE_2M_Channel 39

Test Graph



Suspected List

Suspected List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480.00	73.86	80.65	6.79	0.00	-80.65	178	263	Vertical
2	2480.00	39.94	46.73	6.79	0.00	-46.73	260	34	Vertical
3	2483.89	24.12	30.91	6.79	54.00	23.09	153	101	Vertical
4	2484.09	36.96	43.75	6.79	74.00	30.25	236	91	Vertical
5	2493.59	36.41	43.27	6.86	74.00	30.73	272	34	Vertical
6	2497.64	24.29	31.23	6.94	54.00	22.77	216	6	Vertical

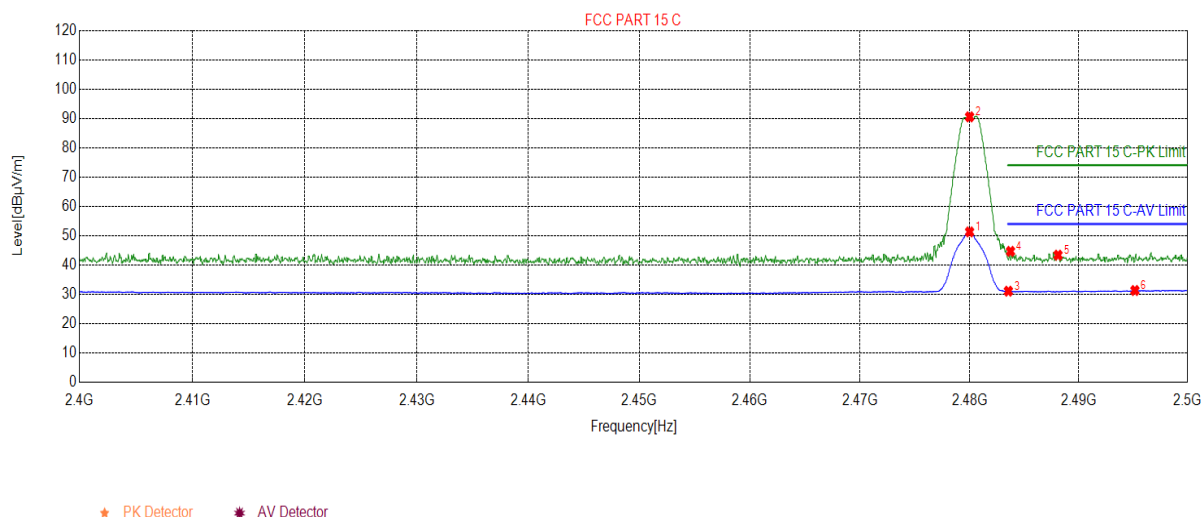
Remark:

- Final Level = Receiver Read level + Factor (Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

Product Name:	Smart Phone	Product Model:	TA-1361
Test By:	Mike	Polarization:	Horizontal
Test Voltage:	AC 120V/60Hz	Environment:	Temp: 24℃ Huni: 57%

BLE_2M_Channel 39

Test Graph



Suspected List

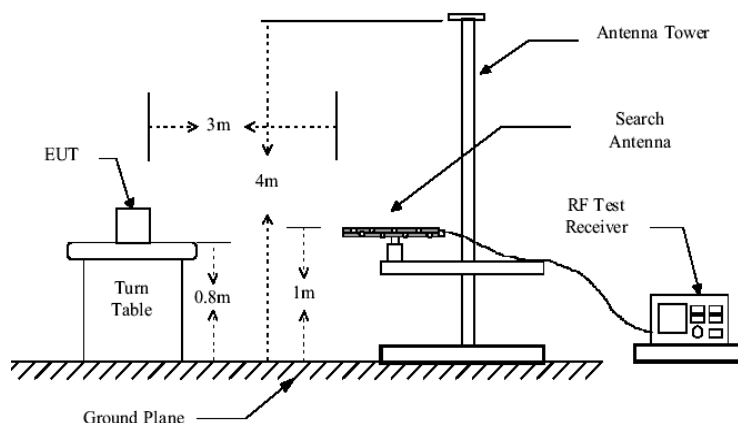
Suspected List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480.00	44.49	51.28	6.79	0.00	-51.28	263	301	Horizontal
2	2480.00	83.72	90.51	6.79	0.00	-90.51	242	221	Horizontal
3	2483.54	24.29	31.08	6.79	54.00	22.92	151	272	Horizontal
4	2483.74	37.87	44.66	6.79	74.00	29.34	163	23	Horizontal
5	2488.09	36.58	43.37	6.79	74.00	30.63	177	16	Horizontal
6	2495.14	24.43	31.32	6.89	54.00	22.68	200	9	Horizontal

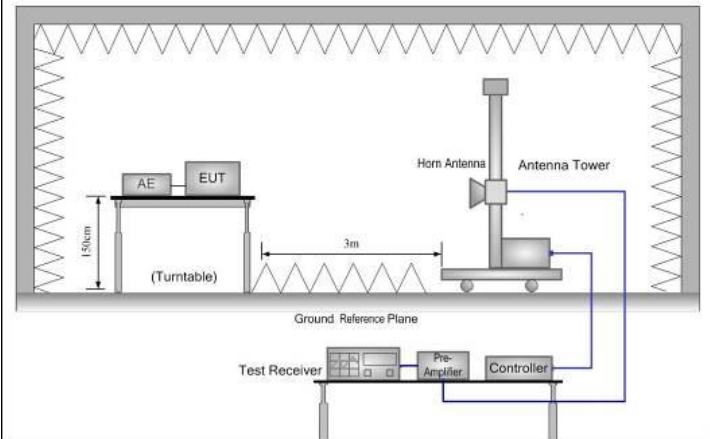
Remark:

- Final Level = Receiver Read level + Factor (Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

6.4 Spurious Emission

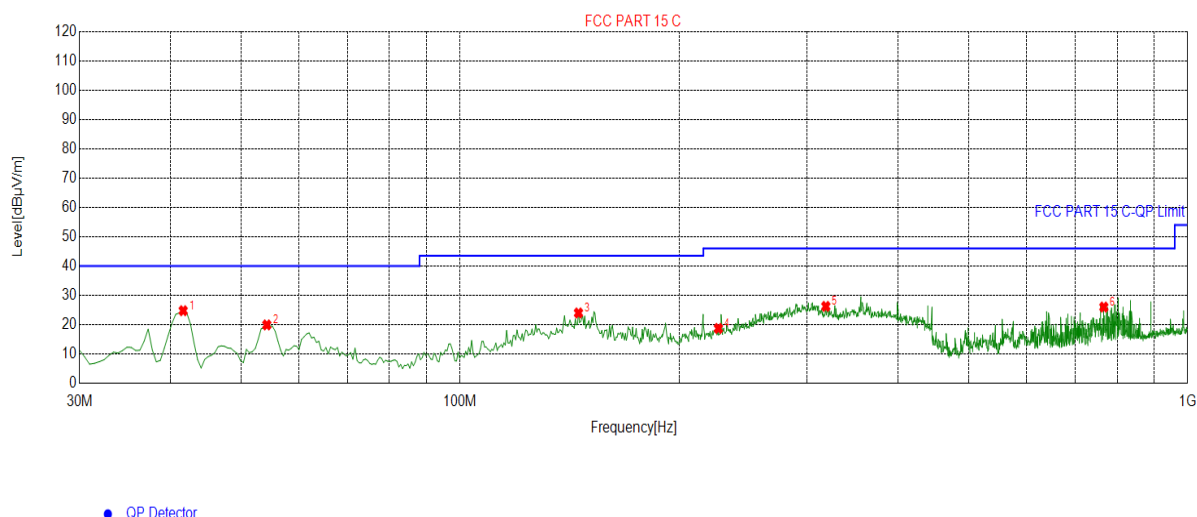
6.4.1 Radiated Emission Method

Test Requirement:	FCC Part 15 C Section 15.205 and 15.209				
Test Frequency Range:	9kHz to 25GHz				
Test Distance:	3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Remark
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
RMS		1MHz	3MHz	Average Value	
Limit:	Frequency		Limit (dBuV/m @3m)		Remark
	30MHz-88MHz		40.0		Quasi-peak Value
	88MHz-216MHz		43.5		Quasi-peak Value
	216MHz-960MHz		46.0		Quasi-peak Value
	960MHz-1GHz		54.0		Quasi-peak Value
	Above 1GHz		54.0		Average Value
		74.0		Peak Value	
Test Procedure:	1. The EUT was placed on the top of a rotating table 0.8m(below 1GHz)/1.5m(above 1GHz) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10 dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10 dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.				
Test setup:	Below 1GHz  Above 1GHz				

	
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed (The test data in this report are based on the previous report with report number: JYTSZB-R12-2101719)
Remark:	1. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the z-axis is the worst case. 2. Pre-Scan all adapter, And the report only reflects the worst mode. 3. 9 kHz to 30MHz is lower than the limit 20dB, so only shows the data of above 30MHz in this report.

Measurement Data (worst case):
Below 1GHz:
TA-1370:

Product Name:	Smart Phone	Product Model:	TA-1370
Test By:	Mike	Test mode:	BLE 1M Tx mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Horizontal
Test Voltage:	AC 120V/60Hz	Environment:	Temp: 24℃ Humi: 57%

Test Graph

Suspected List

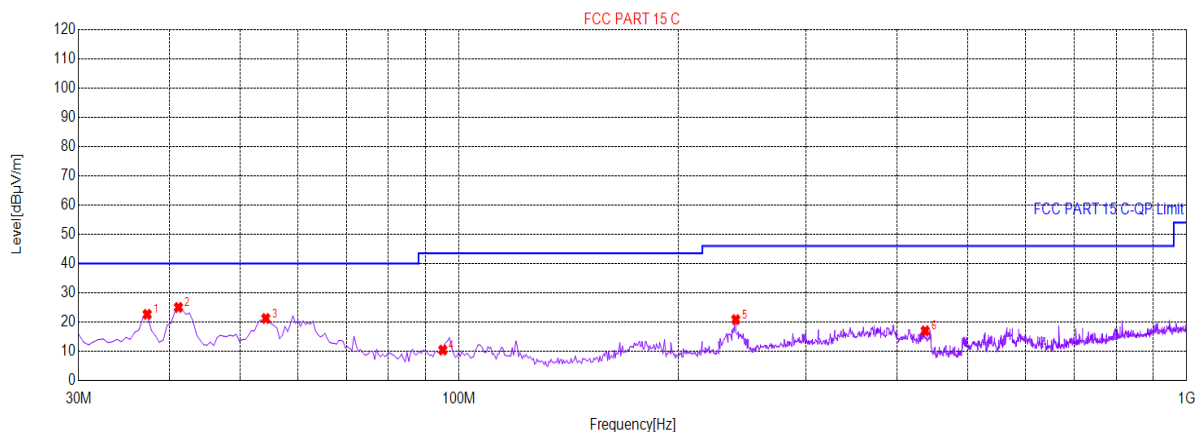
Suspected List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	41.6458	47.65	24.75	-22.90	40.00	15.25	263	331	Horizontal
2	54.2621	41.99	19.91	-22.08	40.00	20.09	152	2	Horizontal
3	145.487	48.37	23.98	-24.39	43.50	19.52	171	256	Horizontal
4	226.523	39.90	18.71	-21.19	46.00	27.29	121	212	Horizontal
5	318.234	44.88	26.23	-18.65	46.00	19.77	123	224	Horizontal
6	767.083	36.79	26.00	-10.79	46.00	20.00	114	228	Horizontal

Remark:

- Final Level = Receiver Read level + Factor (Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

Product Name:	Smart Phone	Product Model:	TA-1370
Test By:	Mike	Test mode:	BLE 1M Tx mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical
Test Voltage:	AC 120V/60Hz	Environment:	Temp: 24℃ Humi: 57%

Test Graph



● QP Detector

Suspected List

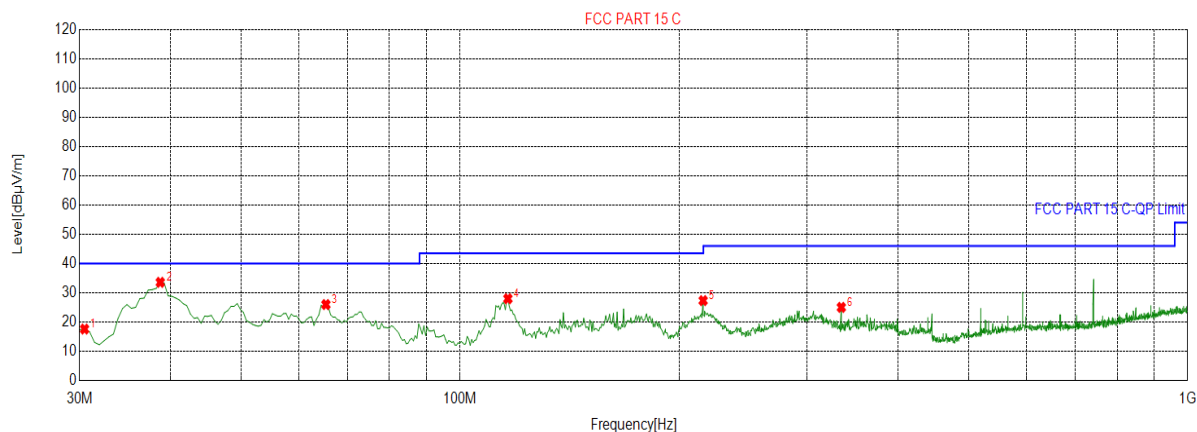
Suspected List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	37.2786	45.96	22.62	-23.34	40.00	17.38	268	108	Vertical
2	41.1606	47.90	25.01	-22.89	40.00	14.99	285	154	Vertical
3	54.2621	43.30	21.22	-22.08	40.00	18.78	261	179	Vertical
4	95.0225	34.11	10.42	-23.69	43.50	33.08	271	47	Vertical
5	240.110	41.67	20.84	-20.83	46.00	25.16	258	136	Vertical
6	437.118	33.04	16.98	-16.06	46.00	29.02	231	183	Vertical

Remark:

- Final Level = Receiver Read level + Factor (Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

Product Name:	Smart Phone	Product Model:	TA-1370
Test By:	Mike	Test mode:	BLE 2M Tx mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Horizontal
Test Voltage:	AC 120V/60Hz	Environment:	Temp: 24℃ Humi: 57%

Test Graph



Suspected List

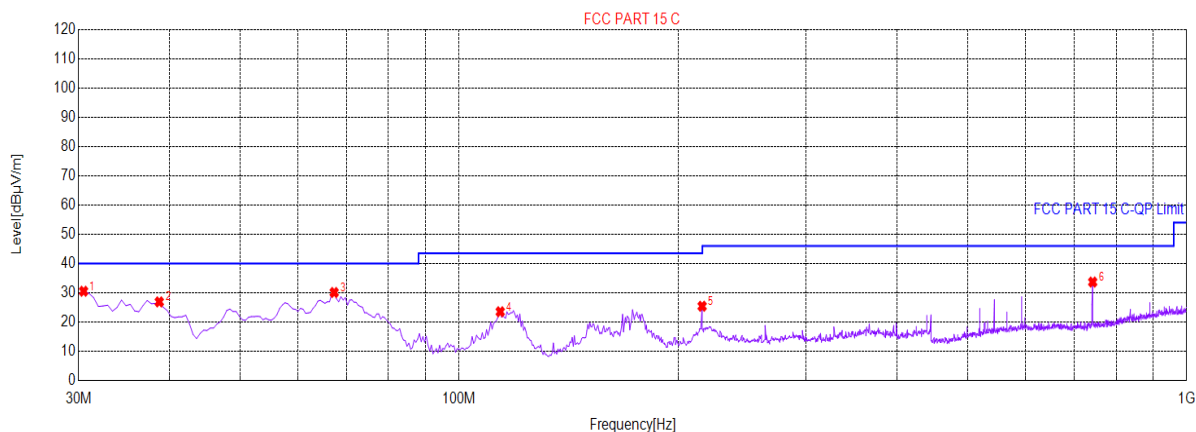
Suspected List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	30.4852	41.52	17.60	-23.92	40.00	22.40	133	302	Horizontal
2	38.7344	56.65	33.57	-23.08	40.00	6.43	172	21	Horizontal
3	65.4227	49.07	25.98	-23.09	40.00	14.02	145	73	Horizontal
4	116.373	50.82	27.97	-22.85	43.50	15.53	196	316	Horizontal
5	215.847	48.78	27.33	-21.45	43.50	16.17	151	313	Horizontal
6	334.247	43.05	25.02	-18.03	46.00	20.98	136	208	Horizontal

Remark:

- Final Level = Receiver Read level + Factor (Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

Product Name:	Smart Phone	Product Model:	TA-1370
Test By:	Mike	Test mode:	BLE 2M Tx mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical
Test Voltage:	AC 120V/60Hz	Environment:	Temp: 24℃ Humi: 57%

Test Graph



● QP Detector

Suspected List

Suspected List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	30.4852	54.44	30.52	-23.92	40.00	9.48	163	222	Vertical
2	38.7344	49.97	26.89	-23.08	40.00	13.11	233	55	Vertical
3	67.3637	53.48	30.10	-23.38	40.00	9.90	277	151	Vertical
4	113.947	46.30	23.53	-22.77	43.50	19.97	231	199	Vertical
5	215.847	46.86	25.41	-21.45	43.50	18.09	209	216	Vertical
6	742.821	44.61	33.66	-10.95	46.00	12.34	251	35	Vertical

Remark:

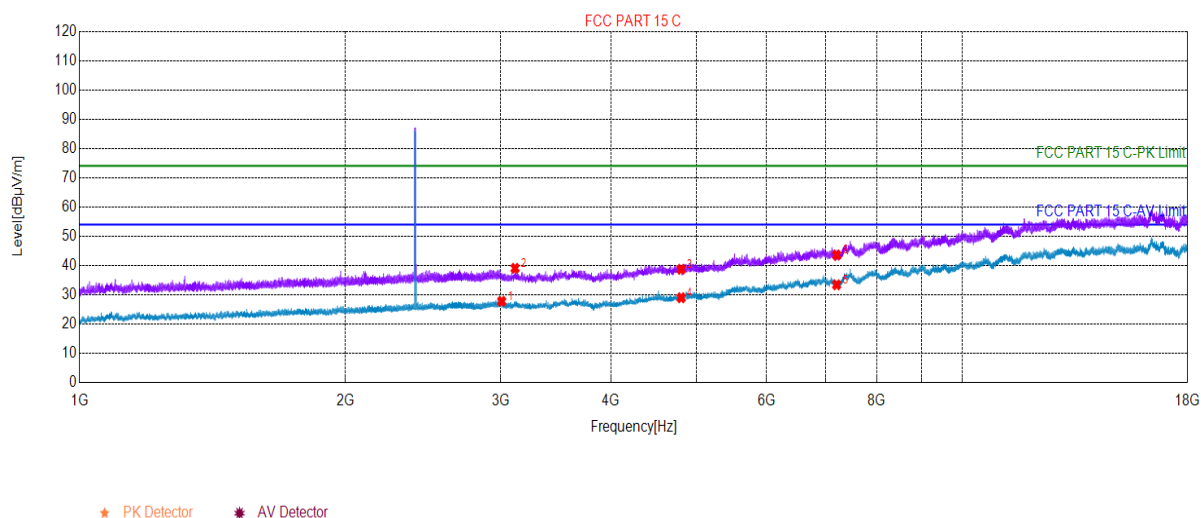
- Final Level = Receiver Read level + Factor (Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

Above 1GHz

Product Name:	Smart Phone	Product Model:	TA-1370
Test By:	Mike	Polarization:	Vertical
Test Voltage:	AC 120V/60Hz	Environment:	Temp: 24℃ Humi: 57%

BLE-1M Channel 0

Test Graph



Suspected List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3007.80	51.61	27.76	-23.85	54.00	26.24	192	356	Vertical
2	3114.60	62.84	39.05	-23.79	74.00	34.95	263	112	Vertical
3	4804.00	57.00	38.71	-18.29	74.00	35.29	242	313	Vertical
4	4804.00	47.28	28.99	-18.29	54.00	25.01	263	25	Vertical
5	7206.00	44.06	33.41	-10.65	54.00	20.59	296	126	Vertical
6	7206.00	54.23	43.58	-10.65	74.00	30.42	231	214	Vertical

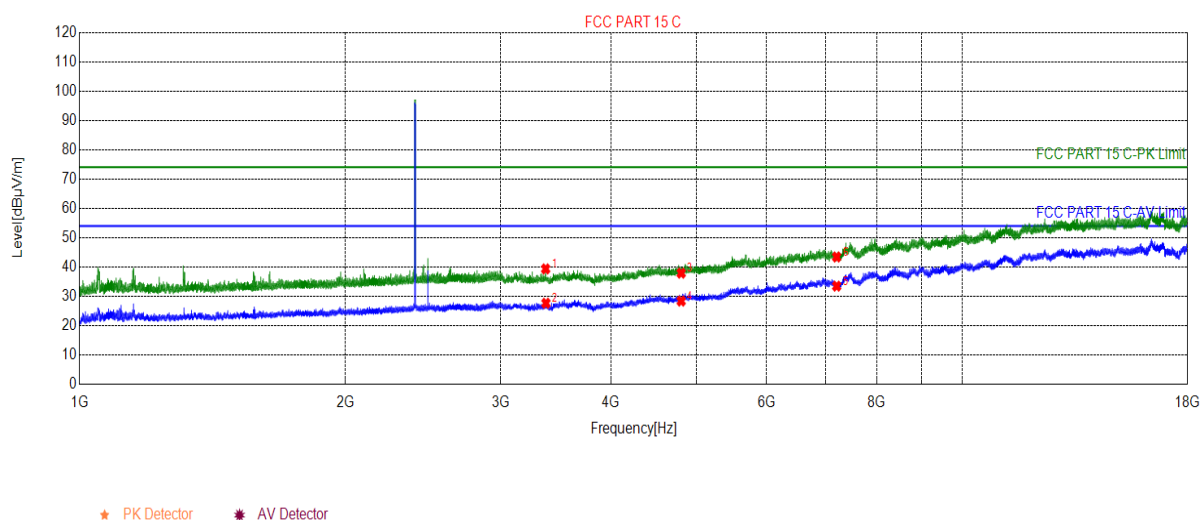
Remark:

- Final Level = Receiver Read level + Factor (Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

Product Name:	Smart Phone	Product Model:	TA-1370
Test By:	Mike	Polarization:	Horizontal
Test Voltage:	AC 120V/60Hz	Environment:	Temp: 24℃ Humi: 57%

BLE-1M Channel 0

Test Graph



Suspected List

Suspected List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3373.21	62.62	39.35	-23.27	74.00	34.65	211	284	Horizontal
2	3375.61	50.95	27.66	-23.29	54.00	26.34	171	155	Horizontal
3	4804.00	56.18	37.89	-18.29	74.00	36.11	195	141	Horizontal
4	4804.00	46.68	28.39	-18.29	54.00	25.61	136	2	Horizontal
5	7206.00	44.12	33.47	-10.65	54.00	20.53	102	84	Horizontal
6	7206.00	54.08	43.43	-10.65	74.00	30.57	175	141	Horizontal

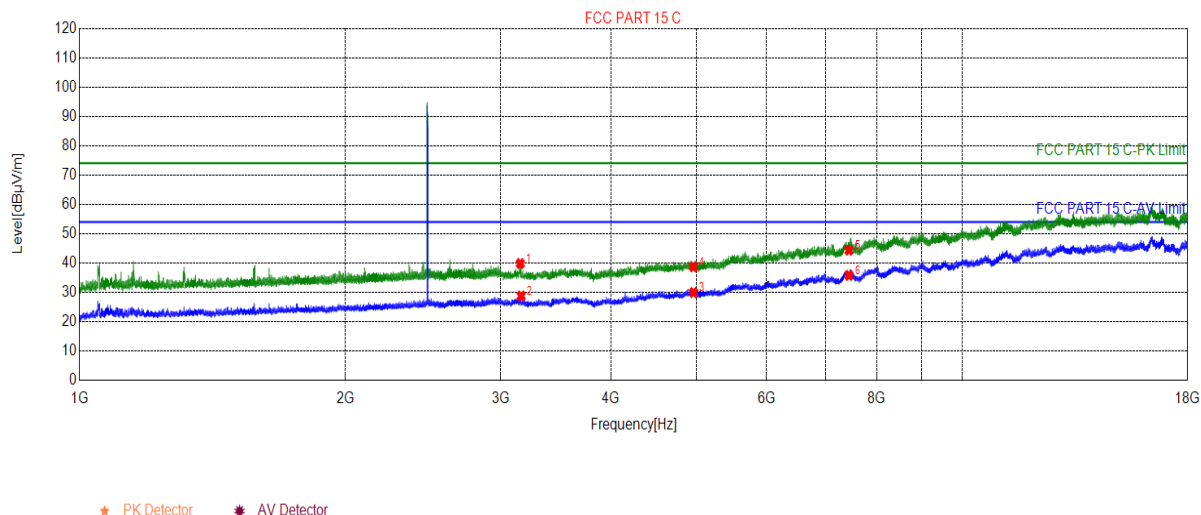
Remark:

- Final Level = Receiver Read level + Factor (Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

Product Name:	Smart Phone	Product Model:	TA-1370
Test By:	Mike	Polarization:	Horizontal
Test Voltage:	AC 120V/60Hz	Environment:	Temp: 24℃ Huni: 57%

BLE-1M Channel 39

Test Graph



Suspected List

Suspected List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3157.20	63.16	39.84	-23.32	74.00	34.16	185	286	Horizontal
2	3164.40	52.20	28.76	-23.44	54.00	25.24	122	286	Horizontal
3	4960.00	47.31	29.93	-17.38	54.00	24.07	103	214	Horizontal
4	4960.00	56.11	38.73	-17.38	74.00	35.27	123	301	Horizontal
5	7440.00	53.35	44.35	-9.00	74.00	29.65	171	41	Horizontal
6	7440.00	44.79	35.79	-9.00	54.00	18.21	162	184	Horizontal

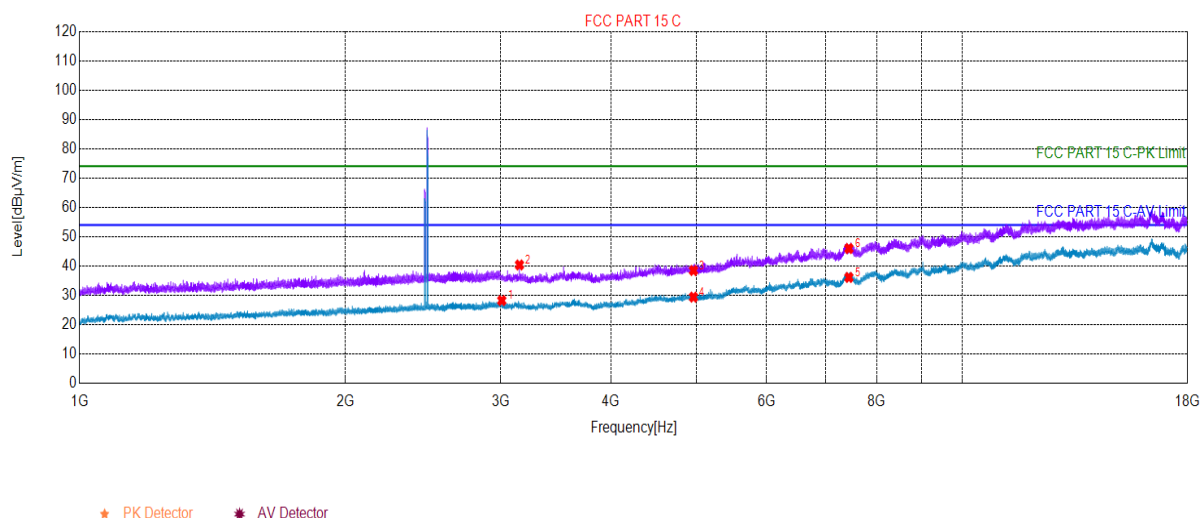
Remark:

- Final Level = Receiver Read level + Factor (Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

Product Name:	Smart Phone	Product Model:	TA-1370
Test By:	Mike	Polarization:	Vertical
Test Voltage:	AC 120V/60Hz	Environment:	Temp: 24℃ Huni: 57%

BLE-1M Channel 39

Test Graph



Suspected List

Suspected List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3008.40	52.07	28.22	-23.85	54.00	25.78	263	185	Vertical
2	3150.60	63.57	40.36	-23.21	74.00	33.64	210	272	Vertical
3	4960.00	55.84	38.46	-17.38	74.00	35.54	251	127	Vertical
4	4960.00	46.77	29.39	-17.38	54.00	24.61	175	55	Vertical
5	7440.00	45.10	36.10	-9.00	54.00	17.90	196	55	Vertical
6	7440.00	54.97	45.97	-9.00	74.00	28.03	132	128	Vertical

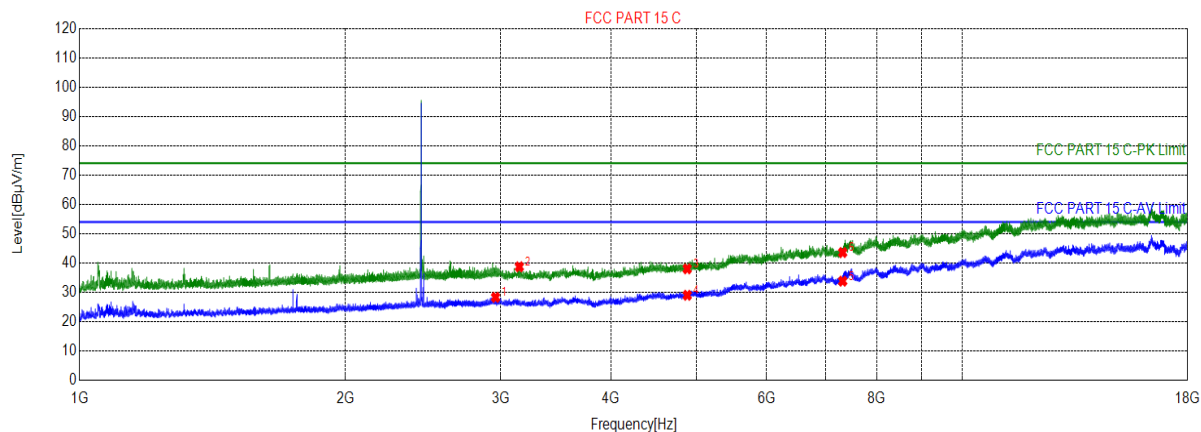
Remark:

- Final Level = Receiver Read level + Factor (Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

Product Name:	Smart Phone	Product Model:	TA-1370
Test By:	Mike	Polarization:	Horizontal
Test Voltage:	AC 120V/60Hz	Environment:	Temp: 24℃ Huni: 57%

BLE-1M Channel 19

Test Graph



★ PK Detector ★ AV Detector

Suspected List

Suspected List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2959.89	20.38	28.29	7.91	54.00	25.71	189	261	Horizontal
2	3149.40	61.91	38.70	-23.21	74.00	35.30	152	98	Horizontal
3	4880.00	56.01	38.01	-18.00	74.00	35.99	136	40	Horizontal
4	4880.00	47.00	29.00	-18.00	54.00	25.00	172	83	Horizontal
5	7320.00	44.32	33.81	-10.51	54.00	20.19	197	98	Horizontal
6	7320.00	54.09	43.58	-10.51	74.00	30.42	166	300	Horizontal

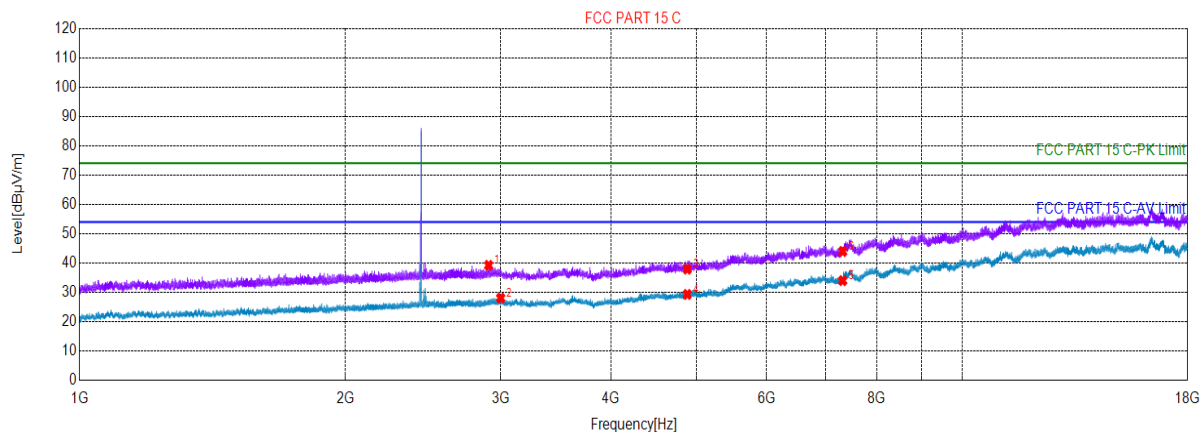
Remark:

- Final Level = Receiver Read level + Factor (Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

Product Name:	Smart Phone	Product Model:	TA-1370
Test By:	Mike	Polarization:	Vertical
Test Voltage:	AC 120V/60Hz	Environment:	Temp: 24℃ Huni: 57%

BLE-1M Channel 19

Test Graph



★ PK Detector ★ AV Detector

Suspected List

Suspected List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2906.99	31.50	39.21	7.71	74.00	34.79	252	122	Vertical
2	2999.90	19.90	28.03	8.13	54.00	25.97	172	324	Vertical
3	4880.00	55.89	37.89	-18.00	74.00	36.11	196	2	Vertical
4	4880.00	47.29	29.29	-18.00	54.00	24.71	233	360	Vertical
5	7320.00	44.50	33.99	-10.51	54.00	20.01	264	302	Vertical
6	7320.00	54.44	43.93	-10.51	74.00	30.07	283	288	Vertical

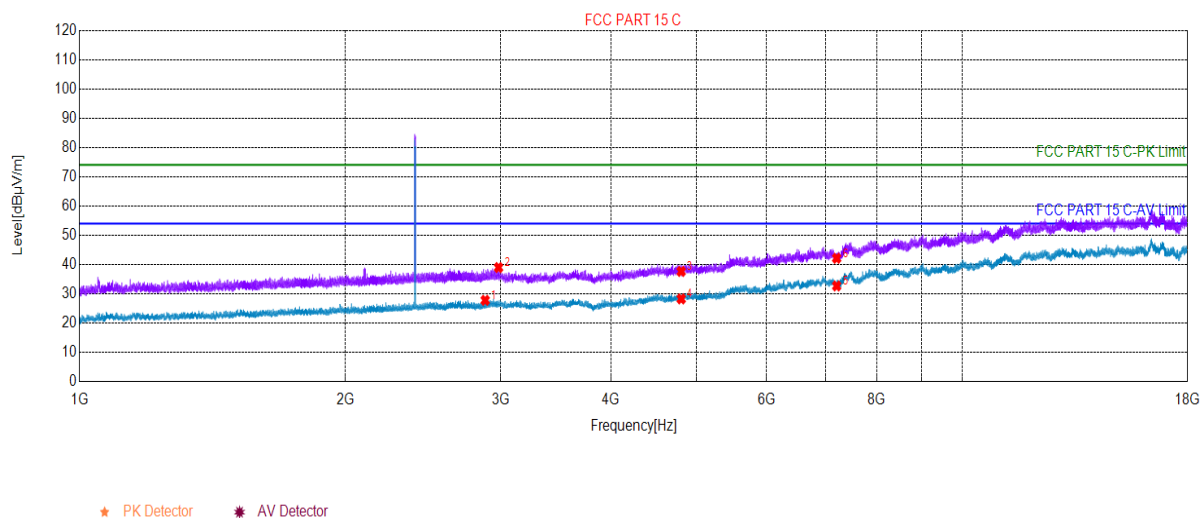
Remark:

- Final Level = Receiver Read level + Factor (Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

Product Name:	Smart Phone	Product Model:	TA-1370
Test By:	Mike	Polarization:	Vertical
Test Voltage:	AC 120V/60Hz	Environment:	Temp: 24℃ Humi: 57%

BLE-2M Channel 0

Test Graph



Suspected List

Suspected List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2880.89	20.33	27.77	7.44	54.00	26.23	265	97	Vertical
2	2983.19	31.08	38.96	7.88	74.00	35.04	272	10	Vertical
3	4804.00	55.92	37.63	-18.29	74.00	36.37	288	156	Vertical
4	4804.00	46.54	28.25	-18.29	54.00	25.75	269	272	Vertical
5	7206.00	43.32	32.67	-10.65	54.00	21.33	263	330	Vertical
6	7206.00	52.79	42.14	-10.65	74.00	31.86	296	112	Vertical

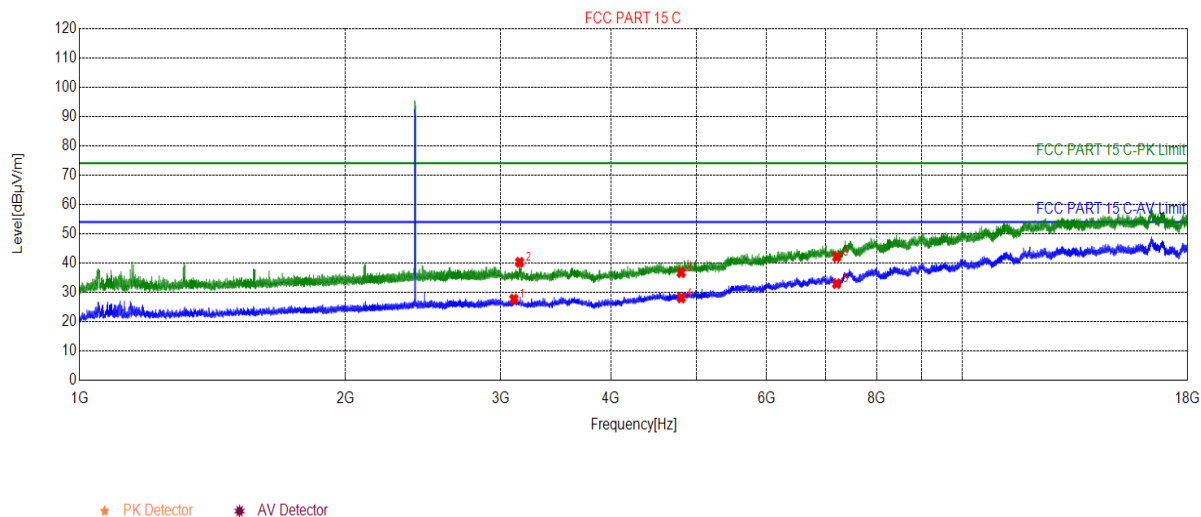
Remark:

- Final Level = Receiver Read level + Factor (Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

Product Name:	Smart Phone	Product Model:	TA-1370
Test By:	Mike	Polarization:	Horizontal
Test Voltage:	AC 120V/60Hz	Environment:	Temp: 24℃ Huni: 57%

BLE-2M Channel 0

Test Graph



Suspected List

Suspected List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3104.40	51.65	27.69	-23.96	54.00	26.31	183	257	Horizontal
2	3151.20	63.46	40.24	-23.22	74.00	33.76	172	271	Horizontal
3	4804.00	55.02	36.73	-18.29	74.00	37.27	133	329	Horizontal
4	4804.00	46.38	28.09	-18.29	54.00	25.91	117	300	Horizontal
5	7206.00	43.60	32.95	-10.65	54.00	21.05	196	242	Horizontal
6	7206.00	52.72	42.07	-10.65	74.00	31.93	163	2	Horizontal

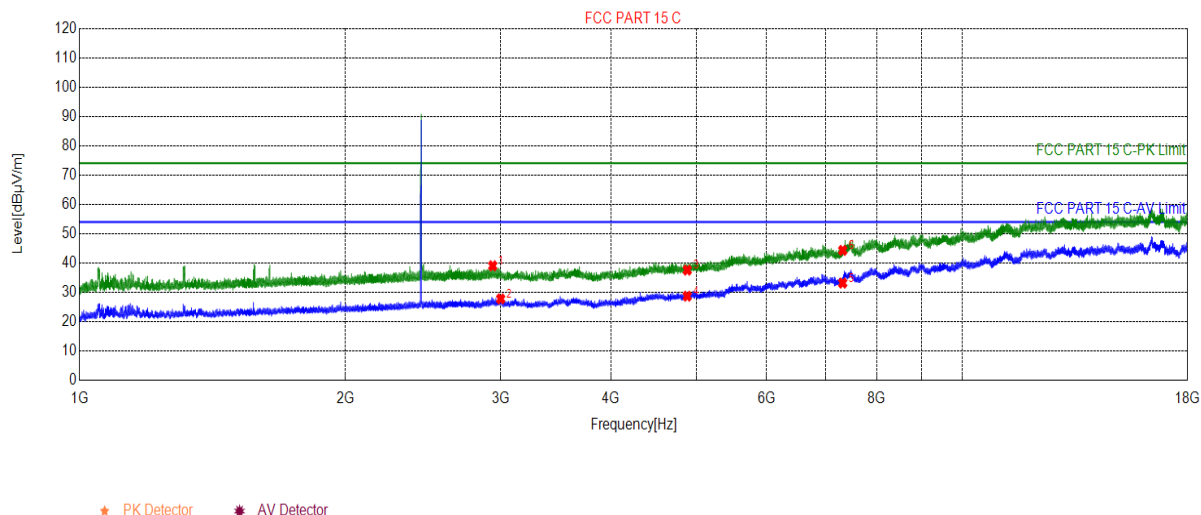
Remark:

- Final Level = Receiver Read level + Factor (Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

Product Name:	Smart Phone	Product Model:	TA-1370
Test By:	Mike	Polarization:	Horizontal
Test Voltage:	AC 120V/60Hz	Environment:	Temp: 24℃ Huni: 57%

BLE-2M Channel 19

Test Graph



Suspected List

Suspected List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2937.99	31.09	39.04	7.95	74.00	34.96	163	161	Horizontal
2	2999.90	19.63	27.76	8.13	54.00	26.24	171	161	Horizontal
3	4880.00	55.57	37.57	-18.00	74.00	36.43	122	170	Horizontal
4	4880.00	46.69	28.69	-18.00	54.00	25.31	131	98	Horizontal
5	7320.00	43.66	33.15	-10.51	54.00	20.85	197	314	Horizontal
6	7320.00	54.82	44.31	-10.51	74.00	29.69	188	356	Horizontal

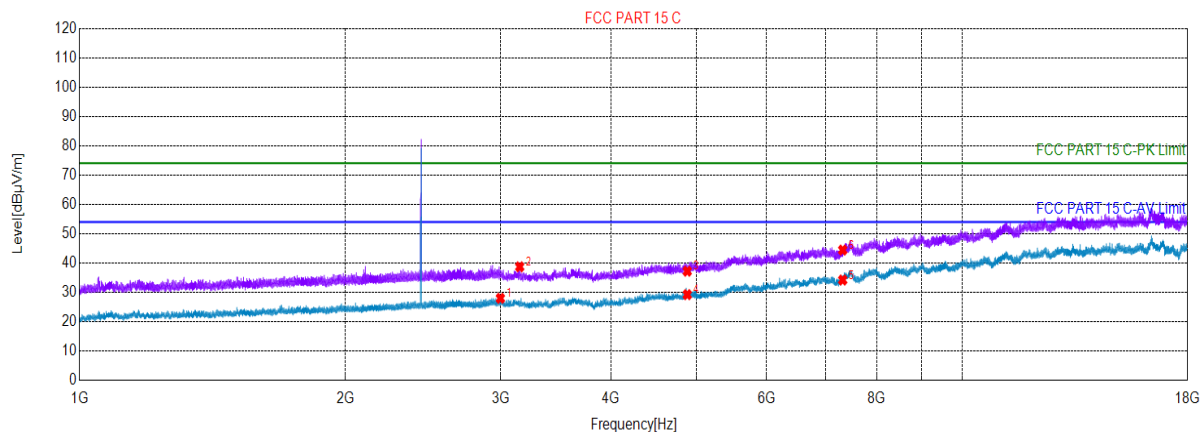
Remark:

- Final Level = Receiver Read level + Factor (Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

Product Name:	Smart Phone	Product Model:	TA-1370
Test By:	Mike	Polarization:	Vertical
Test Voltage:	AC 120V/60Hz	Environment:	Temp: 24℃ Huni: 57%

BLE-2M Channel 19

Test Graph



★ PK Detector ★ AV Detector

Suspected List

Suspected List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2997.49	19.91	27.96	8.05	54.00	26.04	230	325	Vertical
2	3152.40	61.94	38.70	-23.24	74.00	35.30	274	274	Vertical
3	4880.00	55.20	37.20	-18.00	74.00	36.80	282	316	Vertical
4	4880.00	47.22	29.22	-18.00	54.00	24.78	169	143	Vertical
5	7320.00	44.71	34.20	-10.51	54.00	19.80	137	42	Vertical
6	7320.00	54.93	44.42	-10.51	74.00	29.58	177	114	Vertical

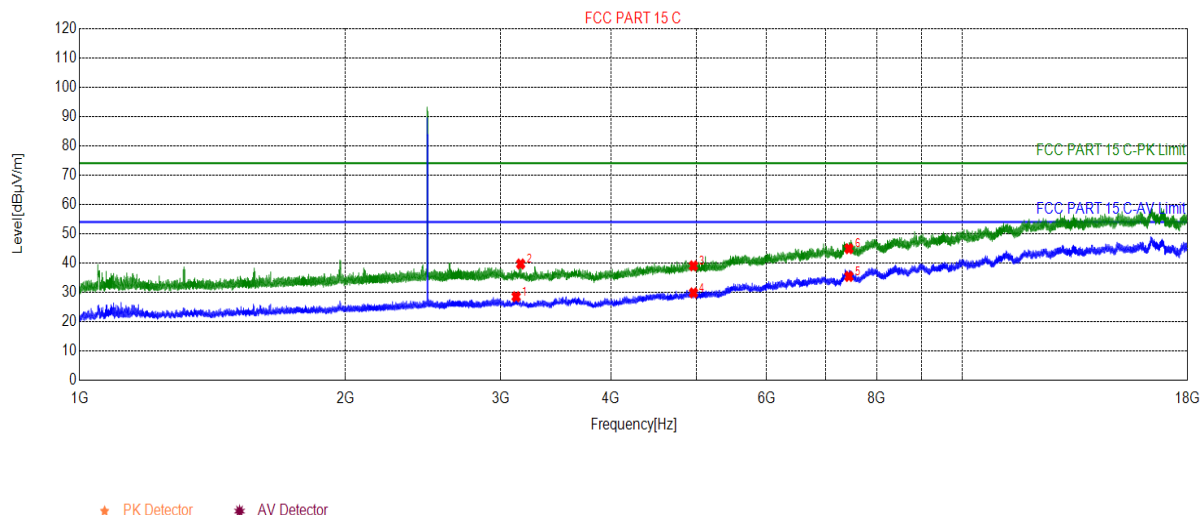
Remark:

- Final Level = Receiver Read level + Factor (Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

Product Name:	Smart Phone	Product Model:	TA-1370
Test By:	Mike	Polarization:	Horizontal
Test Voltage:	AC 120V/60Hz	Environment:	Temp: 24℃ Huni: 57%

BLE-2M Channel 39

Test Graph



Suspected List

Suspected List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3123.00	52.16	28.51	-23.65	54.00	25.49	183	200	Horizontal
2	3160.20	63.03	39.66	-23.37	74.00	34.34	196	285	Horizontal
3	4960.00	56.41	39.03	-17.38	74.00	34.97	131	171	Horizontal
4	4960.00	47.21	29.83	-17.38	54.00	24.17	172	221	Horizontal
5	7440.00	44.42	35.42	-9.00	54.00	18.58	122	171	Horizontal
6	7440.00	53.88	44.88	-9.00	74.00	29.12	189	336	Horizontal

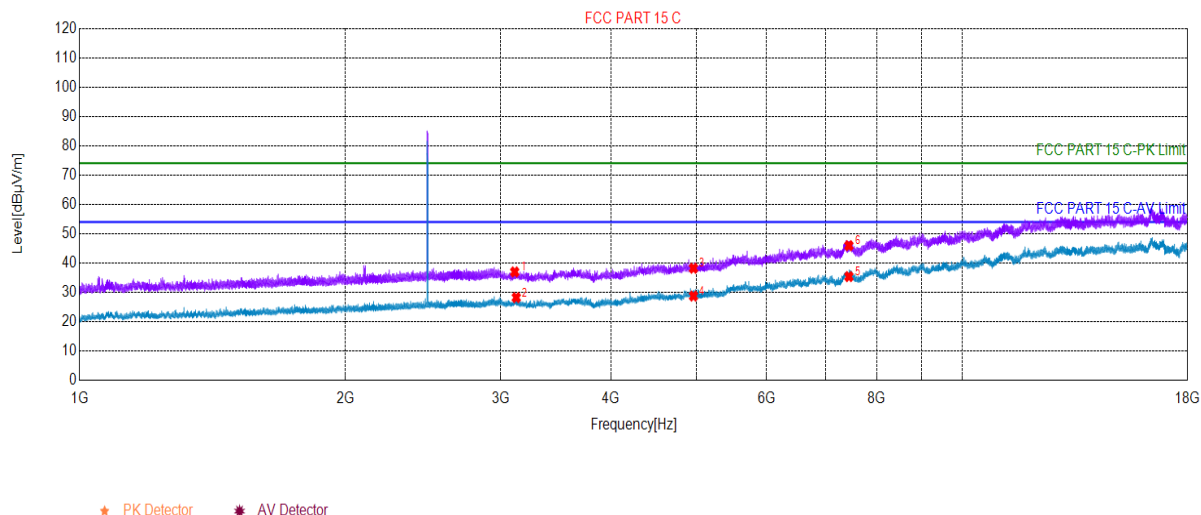
Remark:

- Final Level = Receiver Read level + Factor (Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

Product Name:	Smart Phone	Product Model:	TA-1370
Test By:	Mike	Polarization:	Vertical
Test Voltage:	AC 120V/60Hz	Environment:	Temp: 24℃ Huni: 57%

BLE-2M Channel 39

Test Graph



Suspected List

Suspected List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3111.60	60.80	36.96	-23.84	74.00	37.04	155	224	Vertical
2	3124.20	51.83	28.20	-23.63	54.00	25.80	123	2	Vertical
3	4960.00	55.58	38.20	-17.38	74.00	35.80	172	42	Vertical
4	4960.00	46.11	28.73	-17.38	54.00	25.27	131	182	Vertical
5	7440.00	44.36	35.36	-9.00	54.00	18.64	169	42	Vertical
6	7440.00	54.92	45.92	-9.00	74.00	28.08	191	340	Vertical

Remark:

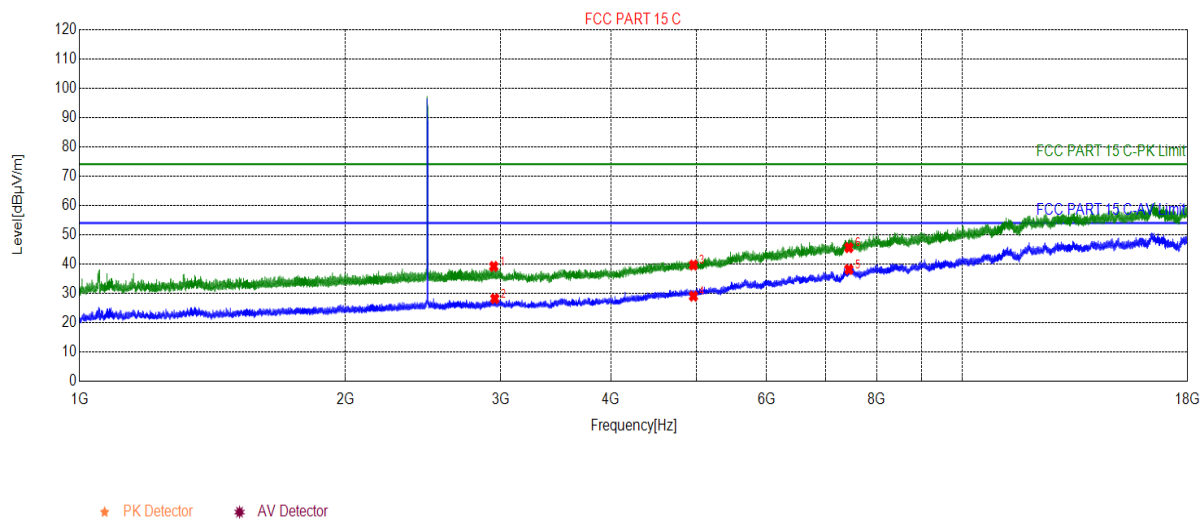
- Final Level = Receiver Read level + Factor (Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

TA-1361(Spot check):

Product Name:	Smart Phone	Product Model:	TA-1361
Test By:	Mike	Polarization:	Horizontal
Test Voltage:	AC 120V/60Hz	Environment:	Temp: 24℃ Humi: 57%

BLE 1M Channel 39

Test Graph



Suspected List

Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2945.9973	39.16	7.96	74.00	34.84	178	94	Horizontal
2	2953.8977	28.18	7.95	54.00	25.82	174	270	Horizontal
3	4960.0000	39.64	-17.38	74.00	34.36	165	248	Horizontal
4	4960.0000	29.04	-17.38	54.00	24.96	185	233	Horizontal
5	7440.0000	38.15	-9.00	54.00	15.85	162	89	Horizontal
6	7440.0000	45.57	-9.00	74.00	28.43	174	190	Horizontal

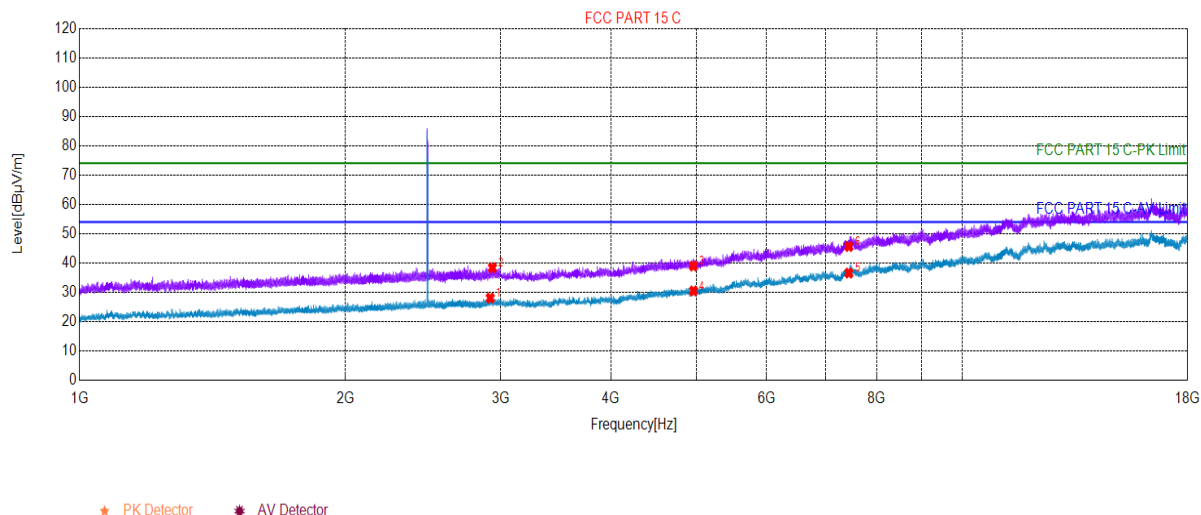
Remark:

- Final Level = Receiver Read level + Factor (Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

Product Name:	Smart Phone	Product Model:	TA-1361
Test By:	Mike	Polarization:	Vertical
Test Voltage:	AC 120V/60Hz	Environment:	Temp: 24℃ Huni: 57%

BLE 1M Channel 39

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2918.8959	28.04	7.84	54.00	25.96	241	315	Vertical
2	2935.8968	38.38	7.97	74.00	35.62	256	264	Vertical
3	4960.0000	38.98	-17.38	74.00	35.02	284	303	Vertical
4	4960.0000	30.48	-17.38	54.00	23.52	254	153	Vertical
5	7440.0000	36.55	-9.00	54.00	17.45	225	10	Vertical
6	7440.0000	45.63	-9.00	74.00	28.37	226	347	Vertical

Remark:

- Final Level = Receiver Read level + Factor (Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

7 Test Setup Photo

Reference to the test setup photos: BT & Wi-Fi & NII Setup Photos.

8 EUT Constructional Details

Reference to the External Photo and Internal Photo

-----End of report-----