



FCC RF Test Report

(BLE)

Applicant: TECNO MOBILE LIMITED

Address of Applicant: FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE
19-25 SHAN MEI STREET FOTAN NT HONGKONG

Equipment Under Test (EUT)

Product Name: Mobile Phone

Model No.: AD9

Trade Mark: TECNO

FCC ID: 2ADYY-AD9

Applicable Standards: FCC CFR Title 47 Part 15C (§15.247)

Date of Sample Receipt: 25 Oct., 2022

Date of Test: 25 Oct., to 03 Nov., 2022

Date of Report Issued: 04 Nov., 2022

Test Result: PASS

Tested by: Mike DU **Date:** 04 Nov., 2022

Reviewed by: Wenwen Zhang **Date:** 04 Nov., 2022

Approved by: Manager **Date:** 04 Nov., 2022

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in above the application standard version. Test results reported herein relate only to the item(s) tested.

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1 Version

Version No.	Date	Description
00	04 Nov., 2022	Original

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3 General Information

3.1 Client Information

Applicant:	TECNO MOBILE LIMITED
Address:	FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG
Manufacturer:	TECNO MOBILE LIMITED
Address:	FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG
Factory:	SHENZHEN TECNO TECHNOLOGY CO., LTD.
Address:	101, Building 24, Waijing Industrial Park, Fumin Community, Fucheng Street, Longhua District, Shenzhen City, P.R.China

3.2 General Description of E.U.T.

Product Name:	Mobile Phone
Model No.:	AD9
Operation Frequency:	2402 MHz - 2480 MHz
Channel Numbers:	40
Channel Separation:	2MHz
Modulation Technology:	GFSK
Data Speed:	1 Mbps (LE 1M PHY), 2 Mbps (LE 2M PHY), 125 kbps (LE Coded PHY, S=8), 500 kbps (LE Coded PHY, S=2)
Antenna Type:	Internal Antenna
Antenna Gain:	1.3dBi (declare by applicant)
Antenna transmit mode:	SISO (1TX, 1RX)
Power Supply:	Rechargeable Li-ion Polymer Battery DC3.87V, 5040mAh
AC Adapter:	Model: U450TSA Input: AC100-240V, 50/60Hz, 1.8A Output: DC 5.0V, 2.0A or DC 11.0V, 4.1A MAX
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

3.3 Test Mode and Test Environment

Test Mode:	
Transmitting mode	Keep the EUT in continuous transmitting with modulation
Remark: For radiated spurious emission (below 1GHz), pre-scan all data speed, found 1 Mbps (LE 1M PHY) was worse case mode. The report only reflects the test data of worst mode.	
Operating Environment:	
Temperature:	15°C ~ 35°C
Humidity:	20 % ~ 75 % RH
Atmospheric Pressure:	1008 mbar

3.4 Description of Test Auxiliary Equipment

The EUT has been tested as an independent unit.

3.5 Measurement Uncertainty

Parameter	Expanded Uncertainty (Confidence of 95%(U = 2Uc(y)))
Radiated Emission (30MHz ~ 1GHz) (3m SAC)	±4.45 dB
Radiated Emission (1GHz ~ 18GHz) (3m SAC)	±5.34 dB
Radiated Emission (18GHz ~ 40GHz) (3m SAC)	±5.34 dB
Note: 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.	

3.6 Additions to, Deviations, or Exclusions from the Method

No

3.7 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 and 10m 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.

● **CNAS - Registration No.: CNAS L15527**

JianYan Testing Group Shenzhen Co., Ltd. is accredited to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L15527.

● **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>

3.8 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://jyt.lets.com>

3.9 Test Instruments List

Radiated Emission(3m SAC):					
Test Equipment	Manufacturer	Model No.	Manage No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m SAC	ETS	9m*6m*6m	WXJ001-1	04-14-2021	04-13-2024
Loop Antenna	Schwarzbeck	FMZB 1519 B	WXJ002-4	03-07-2022	03-06-2023
BiConiLog Antenna	Schwarzbeck	VULB9163	WXJ002	03-08-2022	03-07-2023
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ002-2	03-08-2022	03-07-2023
Horn Antenna	Schwarzbeck	BBHA9170	WXJ002-5	04-07-2022	04-06-2023
Pre-amplifier (30MHz ~ 1GHz)	Schwarzbeck	BBV9743B	WXJ001-2	01-20-2022	01-19-2023
Pre-amplifier (1GHz ~ 18GHz)	SKET	LNPA_0118G-50	WXJ001-3	01-20-2022	01-19-2023
Pre-amplifier (18GHz ~ 40GHz)	RF System	TRLA-180400G45B	WXJ002-7	03-30-2022	03-29-2023
EMI Test Receiver	Rohde & Schwarz	ESRP7	WXJ003-1	03-05-2022	03-04-2023
Spectrum Analyzer	Rohde & Schwarz	FSP 30	WXJ004	01-20-2022	01-19-2023
Spectrum Analyzer	KEYSIGHT	N9010B	WXJ004-2	10-17-2022	10-16-2023
Coaxial Cable (30MHz ~ 1GHz)	JYTSZ	JYT3M-1G-NN-8M	WXG001-4	01-20-2022	01-19-2023
Coaxial Cable (1GHz ~ 18GHz)	JYTSZ	JYT3M-18G-NN-8M	WXG001-5	01-20-2022	01-19-2023
Coaxial Cable (18GHz ~ 40GHz)	JYTSZ	JYT3M-40G-SS-8M	WXG001-7	01-20-2022	01-19-2023
Band Reject Filter Group	Tonscend	JS0806-F	WXJ089	N/A	
Test Software	Tonscend	TS+	Version: 3.0.0.1		

4 Measurement Setup and Procedure

4.1 Test Channel

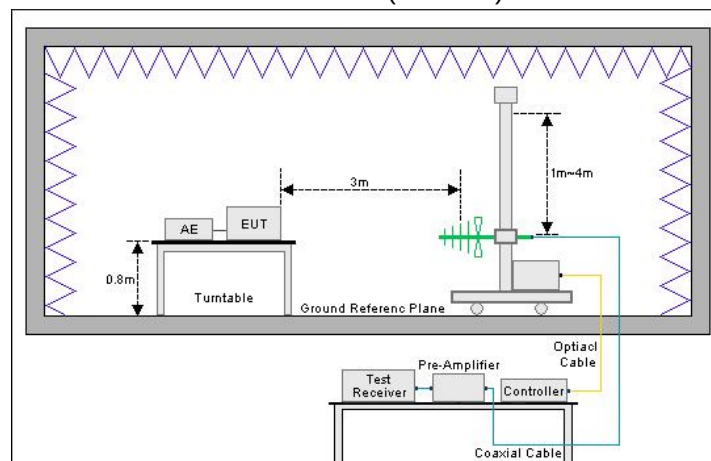
According to ANSI C63.10-2013 chapter 5.6.1 Table 4 requirement, select lowest channel, middle channel, and highest channel in the frequency range in which device operates for testing. The detailed frequency points are as follows:

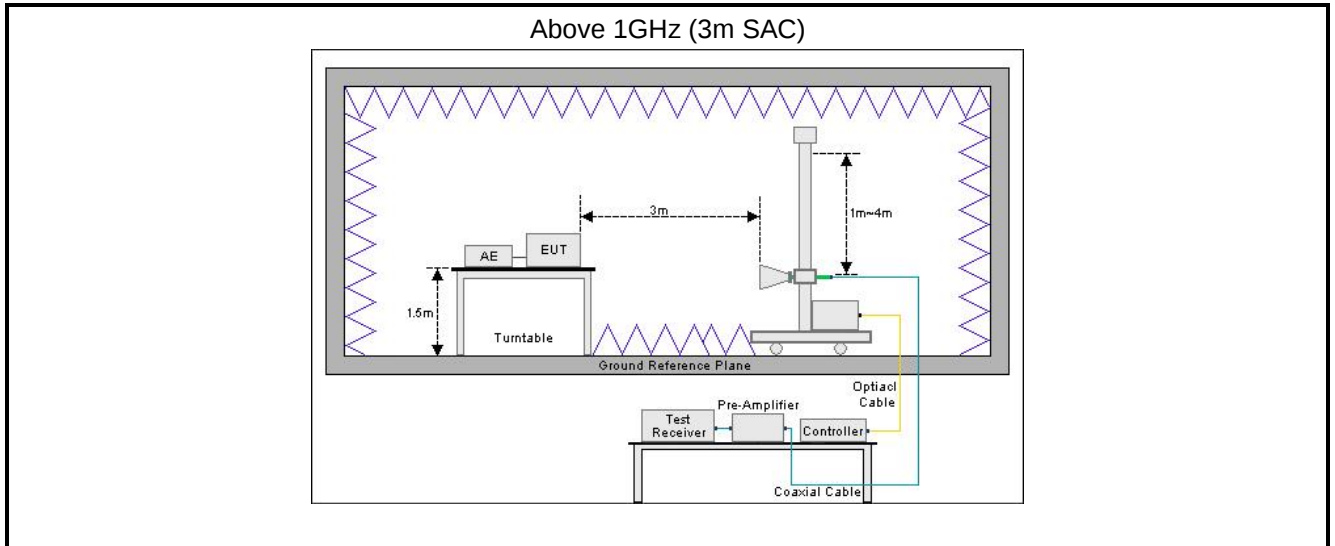
Lowest channel		Middle channel		Highest channel	
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
0	2402	20	2442	39	2480

4.2 Test Setup

1) Radiated emission measurement:

Below 1GHz (3m SAC)





4.3 Test Procedure

Test method	Test step
Radiated emission	For below 1GHz: - The EUT was placed on the tabletop of a rotating table 0.8 m the ground at a 3 m semi anechoic chamber. The measurement distance from the EUT to the receiving antenna is 3 m. - EUT works in each mode of operation that needs to be tested , and having the EUT continuously working, respectively on 3 axis (X, Y & Z) and considered typical configuration to obtain worst position. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations. - Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data. For above 1GHz: - The EUT was placed on the tabletop of a rotating table 1.5 m the ground at a 3 m fully anechoic room. The measurement distance from the EUT to the receiving antenna is 3 m. - EUT works in each mode of operation that needs to be tested , and having the EUT continuously working, respectively on 3 axis (X, Y & Z) and considered typical configuration to obtain worst position. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations. - Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data.

5 Test Results

5.1 Summary

5.1.1 Clause and Data Summary

This report was amended on FCC ID: 2ADYY-AD9 follow FCC Class II Permissive Change. The original report: JYTSZ-R12-2201460, issued by JianYan Testing Group Shenzhen Co., Ltd. The differences between them as below: Change the shape of the shield cover of PMU, change the size of QR code, delete: L3217 L3533 and Components position adjustment, Sub PCB: replace a capacitance with a diode, update ANT1(2.4G Wi-Fi MIMO&BT) and ANT12(5G NR N77 N78 DRX2), ANT13(5G NR N41 DRX1). So retest: Emissions in Restricted Frequency Bands and Emissions in Non-restricted Frequency Bands.

Test items	Standard clause	Test data	Result
Antenna Requirement	15.203 15.247 (b)(4)	See Section 5.2	Pass*
AC Power Line Conducted Emission	15.207	Reference report JYTSZ-R12-2201460	Pass*
Conducted Output Power	15.247 (b)(3)	Reference report JYTSZ-R12-2201460	Pass*
6dB Emission Bandwidth 99% Occupied Bandwidth	15.247 (a)(2)	Reference report JYTSZ-R12-2201460	Pass*
Power Spectral Density	15.247 (e)	Reference report JYTSZ-R12-2201460	Pass*
Band-edge Emission Conduction Spurious Emission	15.247 (d)	Reference report JYTSZ-R12-2201460	Pass*
Emissions in Restricted Frequency Bands	15.205 15.247 (d)	See Section 5.3	Pass
Emissions in Non-restricted Frequency Bands	15.209 15.247(d)	See Section 5.4	Pass
Remark: 1. Pass*: Please refer to FCC ID: 2ADYY-AD9, report No.: JYTSZ-R12-2201460. 2. Pass: The EUT complies with the essential requirements in the standard.			
Test Method:	ANSI C63.10-2013 KDB 558074 D01 15.247 Meas Guidance v05r02		

5.1.2 Test Limit

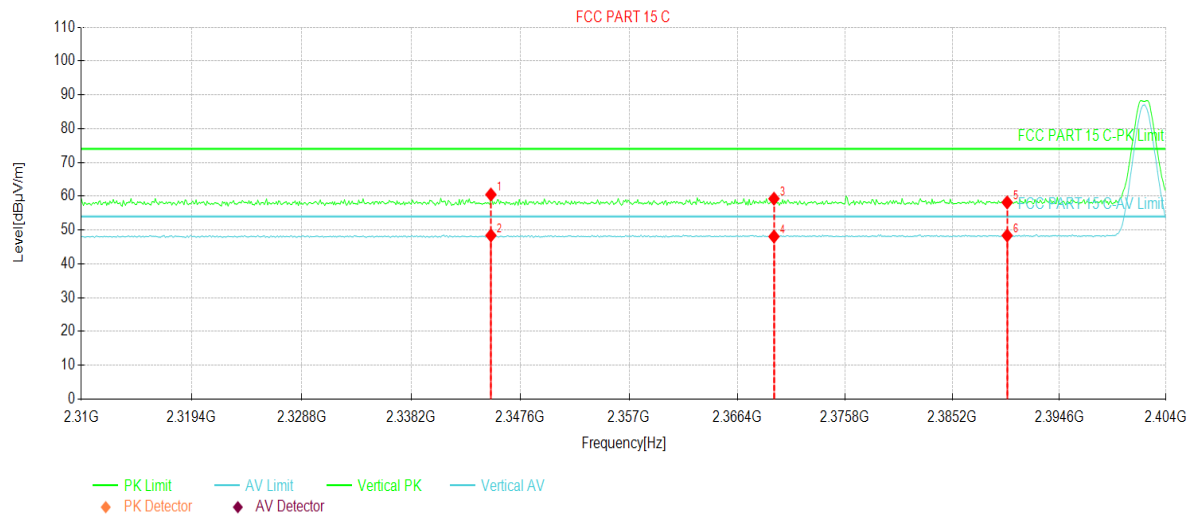
Test items	Limit																																								
AC Power Line Conducted Emission	<table><tr><th rowspan="2">Frequency (MHz)</th><th colspan="2">Limit (dBµV)</th></tr><tr><th>Quasi-Peak</th><th>Average</th></tr><tr><td>0.15 – 0.5</td><td>66 to 56 Note 1</td><td>56 to 46 Note 1</td></tr><tr><td>0.5 – 5</td><td>56</td><td>46</td></tr><tr><td>5 – 30</td><td>60</td><td>50</td></tr><tr><td colspan="3">Note 1: The limit level in dBµV decreases linearly with the logarithm of frequency.</td></tr><tr><td colspan="3">Note 2: The more stringent limit applies at transition frequencies.</td></tr></table>	Frequency (MHz)	Limit (dBµV)		Quasi-Peak	Average	0.15 – 0.5	66 to 56 Note 1	56 to 46 Note 1	0.5 – 5	56	46	5 – 30	60	50	Note 1: The limit level in dBµV decreases linearly with the logarithm of frequency.			Note 2: The more stringent limit applies at transition frequencies.																						
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Conducted Output Power	For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt.																																								
6dB Emission Bandwidth	The minimum 6 dB bandwidth shall be at least 500 kHz.																																								
99% Occupied Bandwidth	N/A																																								
Power Spectral Density	For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.																																								
Band-edge Emission Conduction Spurious Emission	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. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).																																								
Emissions in Restricted Frequency Bands Emissions in Non-restricted Frequency Bands	<table><tr><th rowspan="2">Frequency (MHz)</th><th colspan="2">Limit (dBµV/m)</th><th rowspan="2">Detector</th></tr><tr><th>@ 3m</th><th>@ 10m</th></tr><tr><td>30 – 88</td><td>40.0</td><td>30.0</td><td>Quasi-peak</td></tr><tr><td>88 – 216</td><td>43.5</td><td>33.5</td><td>Quasi-peak</td></tr><tr><td>216 – 960</td><td>46.0</td><td>36.0</td><td>Quasi-peak</td></tr><tr><td>960 – 1000</td><td>54.0</td><td>44.0</td><td>Quasi-peak</td></tr><tr><td colspan="4">Note: The more stringent limit applies at transition frequencies.</td></tr><tr><th rowspan="2">Frequency</th><th colspan="2">Limit (dBµV/m) @ 3m</th><th rowspan="2">Peake</th></tr><tr><th colspan="2">Average</th></tr><tr><td>Above 1 GHz</td><td colspan="2">54.0</td><td>74.0</td></tr><tr><td colspan="4">Note: The measurement bandwidth shall be 1 MHz or greater.</td></tr></table>	Frequency (MHz)	Limit (dBµV/m)		Detector	@ 3m	@ 10m	30 – 88	40.0	30.0	Quasi-peak	88 – 216	43.5	33.5	Quasi-peak	216 – 960	46.0	36.0	Quasi-peak	960 – 1000	54.0	44.0	Quasi-peak	Note: The more stringent limit applies at transition frequencies.				Frequency	Limit (dBµV/m) @ 3m		Peake	Average		Above 1 GHz	54.0		74.0	Note: The measurement bandwidth shall be 1 MHz or greater.			
Frequency (MHz)	Limit (dBµV/m)		Detector																																						
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5.1 Antenna requirement

Standard requirement:	FCC Part 15 C Section 15.203 /247(b)(4)
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 1.3 dBi. See product internal photos for details.	

5.2 Emissions in Restricted Frequency Bands

Product Name:	Mobile Phone	Product Model:	AD9
Test By:	Mike	Test mode:	BLE Tx (LE 1M PHY)
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	DC 3.87V		



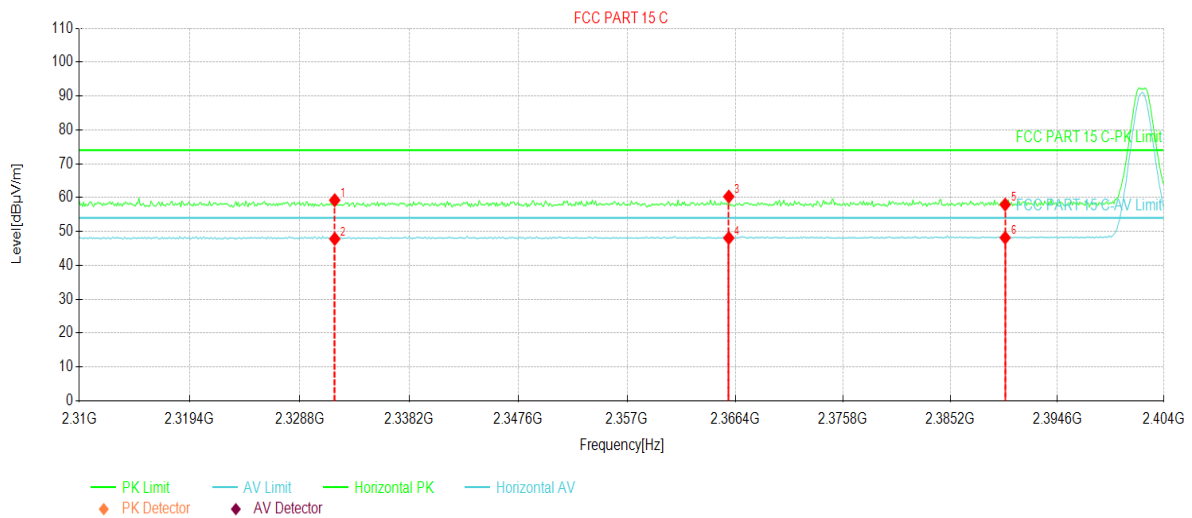
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Trace	Polarity
1	2345.06	25.24	35.26	60.50	74.00	13.50	PK	Vertical
2	2345.06	13.14	35.26	48.40	54.00	5.60	AV	Vertical
3	2369.59	23.83	35.44	59.27	74.00	14.73	PK	Vertical
4	2369.59	12.65	35.44	48.09	54.00	5.91	AV	Vertical
5	2390.00	22.58	35.60	58.18	74.00	15.82	PK	Vertical
6	2390.00	12.78	35.60	48.38	54.00	5.62	AV	Vertical

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).

Product Name:	Mobile Phone	Product Model:	AD9
Test By:	Mike	Test mode:	BLE Tx (LE 1M PHY)
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	DC 3.87V		



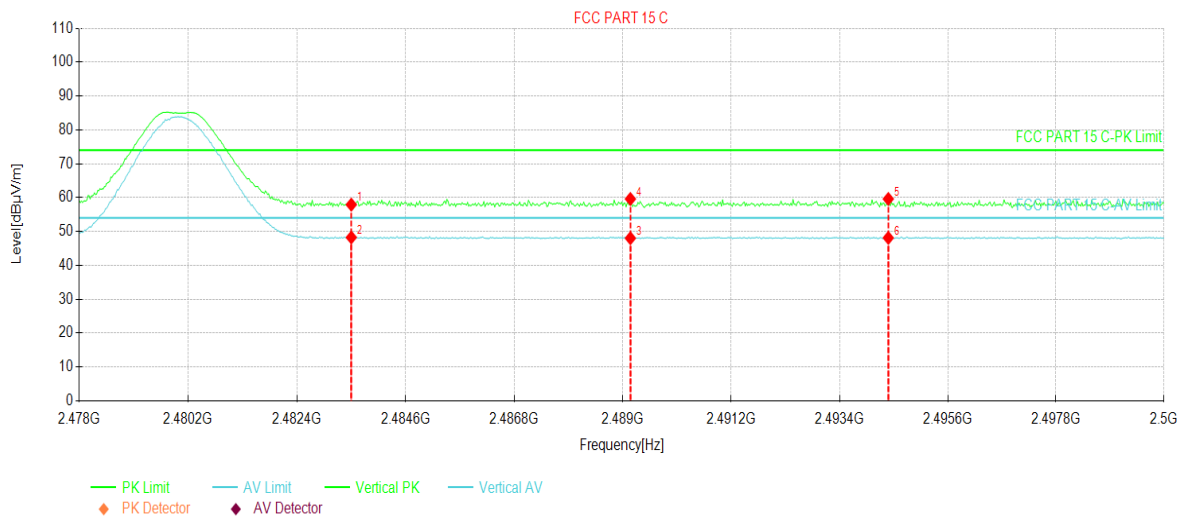
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Trace	Polarity
1	2331.80	24.08	35.16	59.24	74.00	14.76	PK	Horizontal
2	2331.80	12.67	35.16	47.83	54.00	6.17	AV	Horizontal
3	2365.83	24.90	35.41	60.31	74.00	13.69	PK	Horizontal
4	2365.83	12.68	35.41	48.09	54.00	5.91	AV	Horizontal
5	2390.00	22.34	35.60	57.94	74.00	16.06	PK	Horizontal
6	2390.00	12.57	35.60	48.17	54.00	5.83	AV	Horizontal

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).

Product Name:	Mobile Phone	Product Model:	AD9
Test By:	Mike	Test mode:	BLE Tx (LE 1M PHY)
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	DC 3.87V		



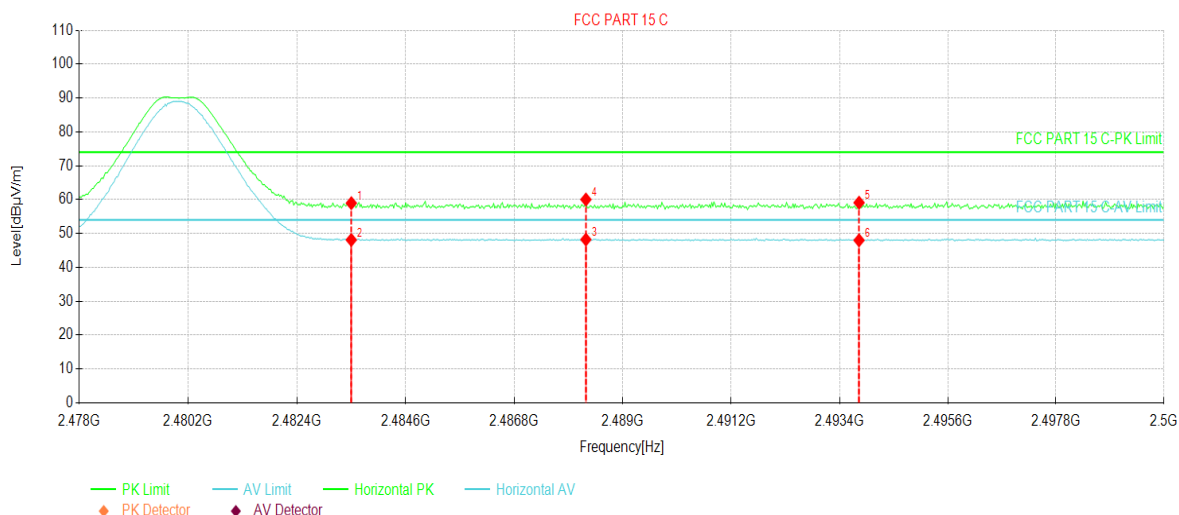
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Trace	Polarity
1	2483.50	22.42	35.51	57.93	74.00	16.07	PK	Vertical
2	2483.50	12.74	35.51	48.25	54.00	5.75	AV	Vertical
3	2489.15	12.52	35.50	48.02	54.00	5.98	AV	Vertical
4	2489.15	24.11	35.50	59.61	74.00	14.39	PK	Vertical
5	2494.39	24.12	35.49	59.61	74.00	14.39	PK	Vertical
6	2494.39	12.63	35.49	48.12	54.00	5.88	AV	Vertical

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).

Product Name:	Mobile Phone	Product Model:	AD9
Test By:	Mike	Test mode:	BLE Tx (LE 1M PHY)
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	DC 3.87V		



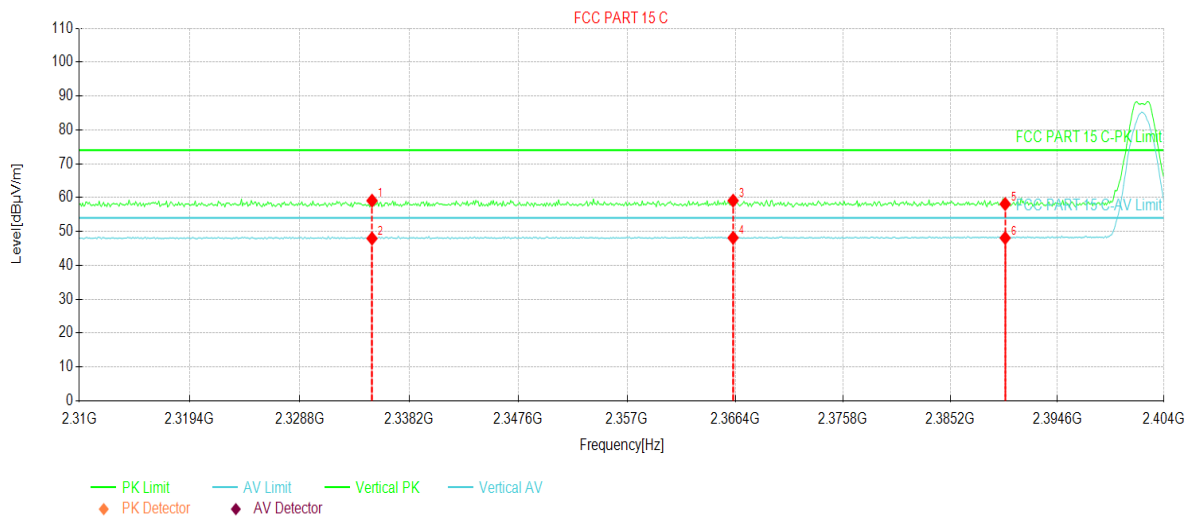
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Trace	Polarity
1	2483.50	23.45	35.51	58.96	74.00	15.04	PK	Horizontal
2	2483.50	12.60	35.51	48.11	54.00	5.89	AV	Horizontal
3	2488.25	12.72	35.50	48.22	54.00	5.78	AV	Horizontal
4	2488.25	24.53	35.50	60.03	74.00	13.97	PK	Horizontal
5	2493.79	23.61	35.49	59.10	74.00	14.90	PK	Horizontal
6	2493.79	12.51	35.49	48.00	54.00	6.00	AV	Horizontal

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).

Product Name:	Mobile Phone	Product Model:	AD9
Test By:	Mike	Test mode:	BLE Tx (LE 2M PHY)
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	DC 3.87V		



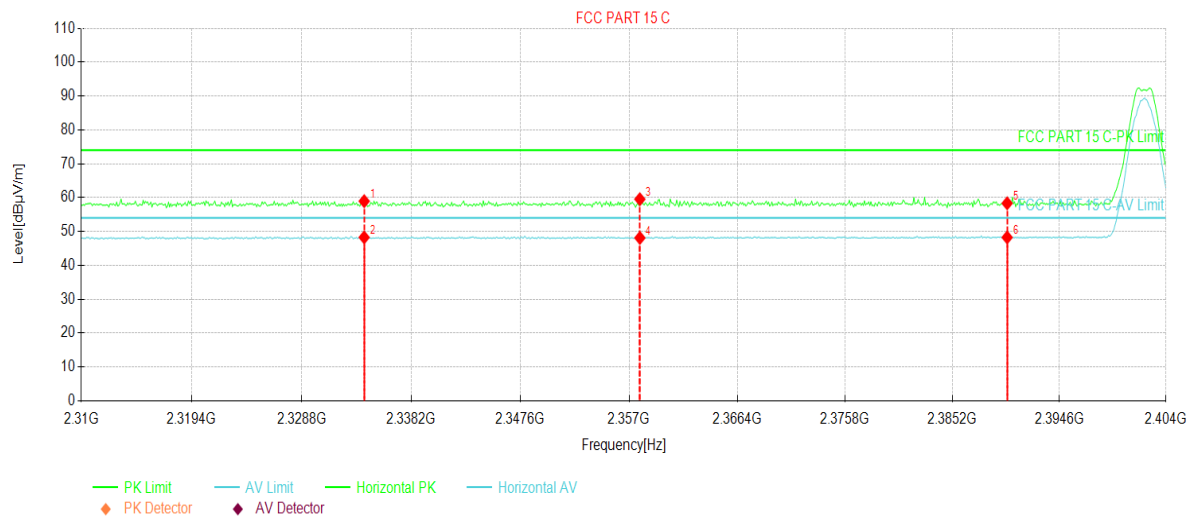
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Trace	Polarity
1	2335.00	23.92	35.18	59.10	74.00	14.90	PK	Vertical
2	2335.00	12.76	35.18	47.94	54.00	6.06	AV	Vertical
3	2366.21	23.68	35.42	59.10	74.00	14.90	PK	Vertical
4	2366.21	12.72	35.42	48.14	54.00	5.86	AV	Vertical
5	2390.00	22.51	35.60	58.11	74.00	15.89	PK	Vertical
6	2390.00	12.50	35.60	48.10	54.00	5.90	AV	Vertical

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).

Product Name:	Mobile Phone	Product Model:	AD9
Test By:	Mike	Test mode:	BLE Tx (LE 2M PHY)
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	DC 3.87V		



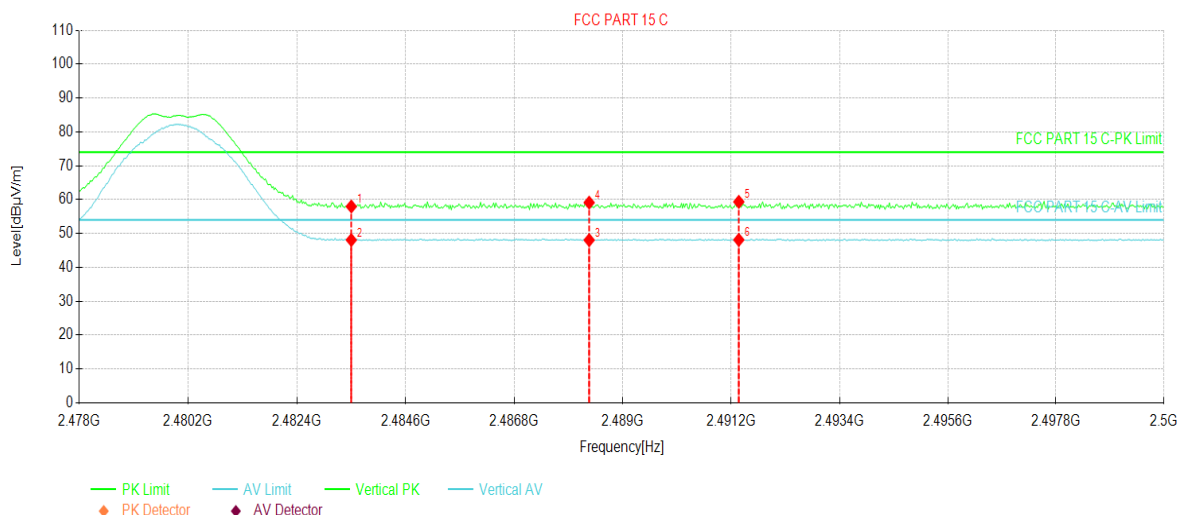
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Trace	Polarity
1	2334.15	23.77	35.18	58.95	74.00	15.05	PK	Horizontal
2	2334.15	13.08	35.18	48.26	54.00	5.74	AV	Horizontal
3	2357.94	24.19	35.35	59.54	74.00	14.46	PK	Horizontal
4	2357.94	12.76	35.35	48.11	54.00	5.89	AV	Horizontal
5	2390.00	22.73	35.60	58.33	74.00	15.67	PK	Horizontal
6	2390.00	12.65	35.60	48.25	54.00	5.75	AV	Horizontal

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Pre-amplifier Factor).

Product Name:	Mobile Phone	Product Model:	AD9
Test By:	Mike	Test mode:	BLE Tx (LE 2M PHY)
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	DC 3.87V		



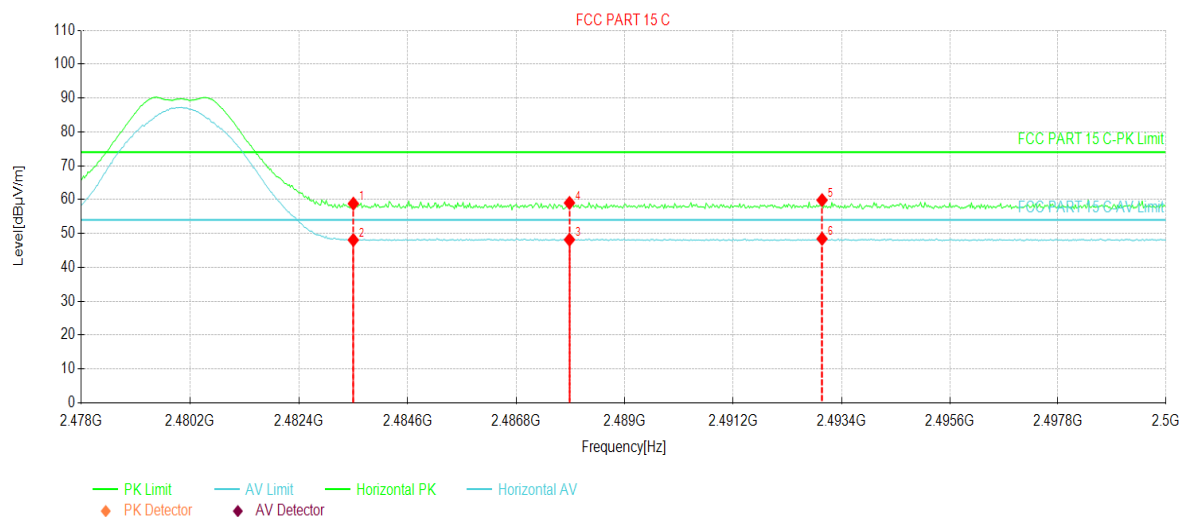
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Trace	Polarity
1	2483.50	22.47	35.51	57.98	74.00	16.02	PK	Vertical
2	2483.50	12.57	35.51	48.08	54.00	5.92	AV	Vertical
3	2488.31	12.55	35.50	48.05	54.00	5.95	AV	Vertical
4	2488.31	23.62	35.50	59.12	74.00	14.88	PK	Vertical
5	2491.35	23.85	35.50	59.35	74.00	14.65	PK	Vertical
6	2491.35	12.63	35.50	48.13	54.00	5.87	AV	Vertical

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).

Product Name:	Mobile Phone	Product Model:	AD8
Test By:	Mike	Test mode:	BLE Tx (LE 2M PHY)
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	DC 3.87V		



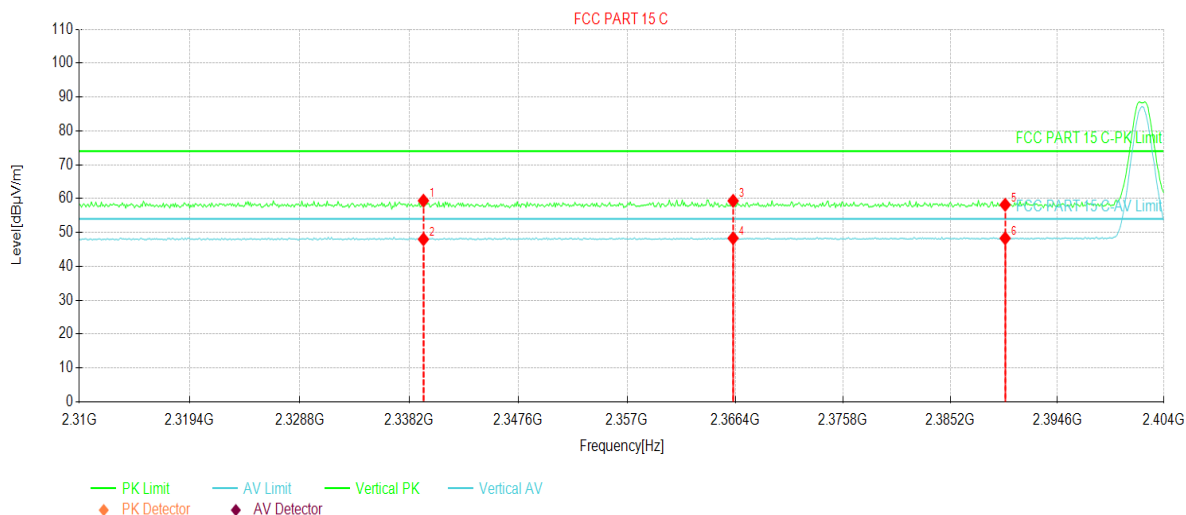
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Trace	Polarity
1	2483.50	23.30	35.51	58.81	74.00	15.19	PK	Horizontal
2	2483.50	12.57	35.51	48.08	54.00	5.92	AV	Horizontal
3	2487.87	12.67	35.50	48.17	54.00	5.83	AV	Horizontal
4	2487.87	23.53	35.50	59.03	74.00	14.97	PK	Horizontal
5	2493.00	24.37	35.49	59.86	74.00	14.14	PK	Horizontal
6	2493.00	12.94	35.49	48.43	54.00	5.57	AV	Horizontal

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).

Product Name:	Mobile Phone	Product Model:	AD9
Test By:	Mike	Test mode:	BLE Tx (LE Coded PHY, S=2)
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	DC 3.87V		



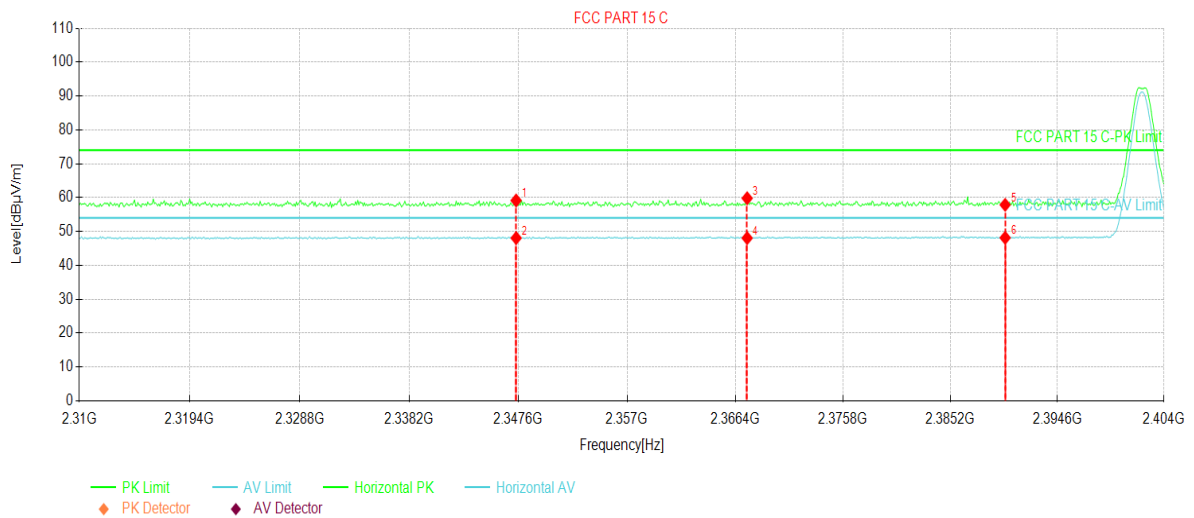
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Trace	Polarity
1	2339.42	24.17	35.22	59.39	74.00	14.61	PK	Vertical
2	2339.42	12.77	35.22	47.99	54.00	6.01	AV	Vertical
3	2366.21	23.93	35.42	59.35	74.00	14.65	PK	Vertical
4	2366.21	12.90	35.42	48.32	54.00	5.68	AV	Vertical
5	2390.00	22.58	35.60	58.18	74.00	15.82	PK	Vertical
6	2390.00	12.69	35.60	48.29	54.00	5.71	AV	Vertical

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).

Product Name:	Mobile Phone	Product Model:	AD9
Test By:	Mike	Test mode:	BLE Tx (LE Coded PHY, S=2)
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	DC 3.87V		



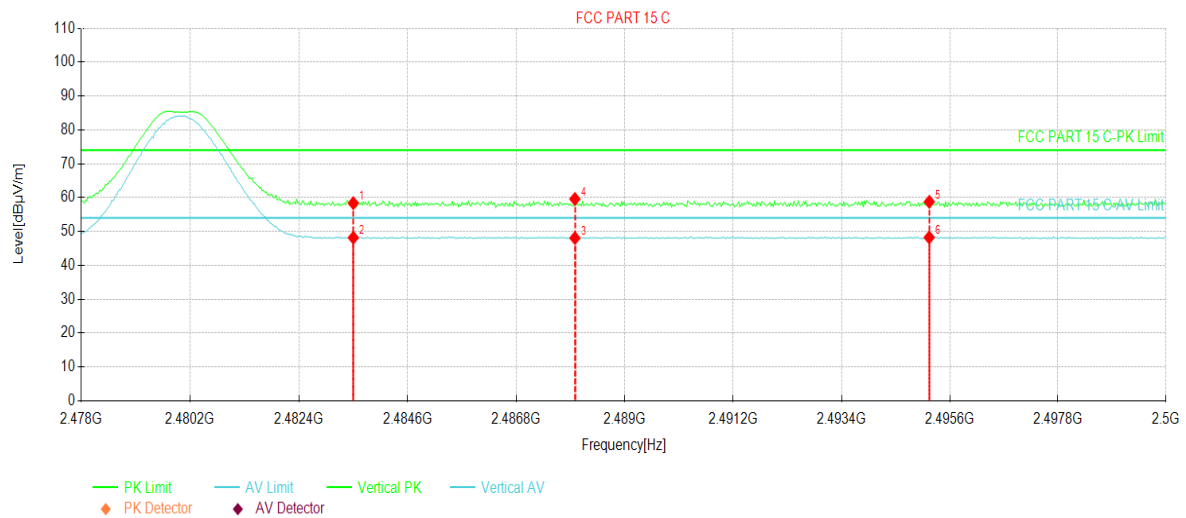
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Trace	Polarity
1	2347.41	23.87	35.28	59.15	74.00	14.85	PK	Horizontal
2	2347.41	12.79	35.28	48.07	54.00	5.93	AV	Horizontal
3	2367.43	24.38	35.43	59.81	74.00	14.19	PK	Horizontal
4	2367.43	12.63	35.43	48.06	54.00	5.94	AV	Horizontal
5	2390.00	22.27	35.60	57.87	74.00	16.13	PK	Horizontal
6	2390.00	12.54	35.60	48.14	54.00	5.86	AV	Horizontal

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).

Product Name:	Mobile Phone	Product Model:	AD9
Test By:	Mike	Test mode:	BLE Tx (LE Coded PHY, S=2)
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	DC 3.87V		



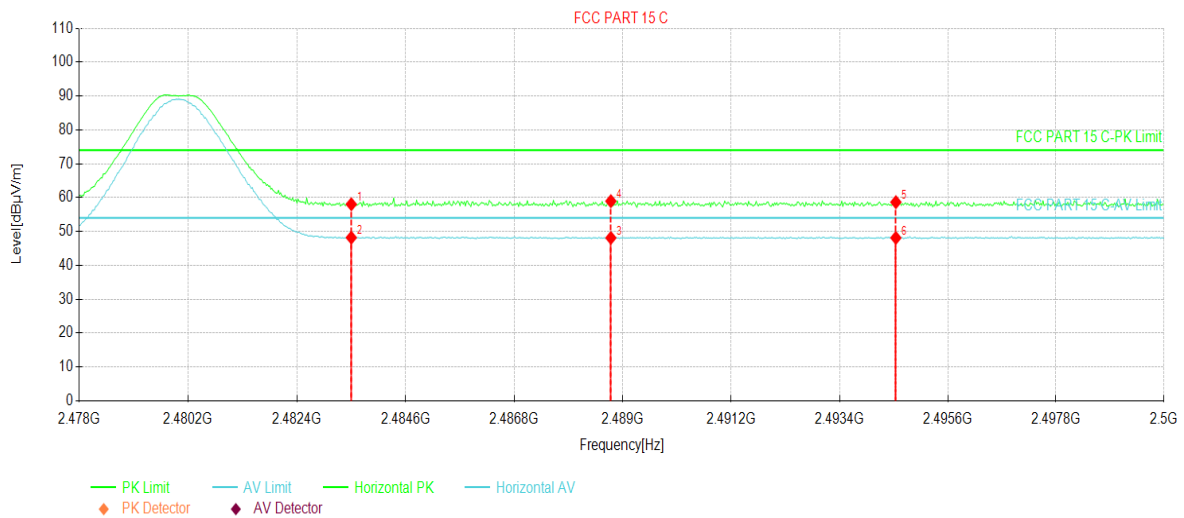
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Trace	Polarity
1	2483.50	22.86	35.51	58.37	74.00	15.63	PK	Vertical
2	2483.50	12.66	35.51	48.17	54.00	5.83	AV	Vertical
3	2487.98	12.57	35.50	48.07	54.00	5.93	AV	Vertical
4	2487.98	24.10	35.50	59.60	74.00	14.40	PK	Vertical
5	2495.18	23.28	35.49	58.77	74.00	15.23	PK	Vertical
6	2495.18	12.75	35.49	48.24	54.00	5.76	AV	Vertical

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).

Product Name:	Mobile Phone	Product Model:	AD9
Test By:	Mike	Test mode:	BLE Tx (LE Coded PHY, S=2)
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	DC 3.87V		



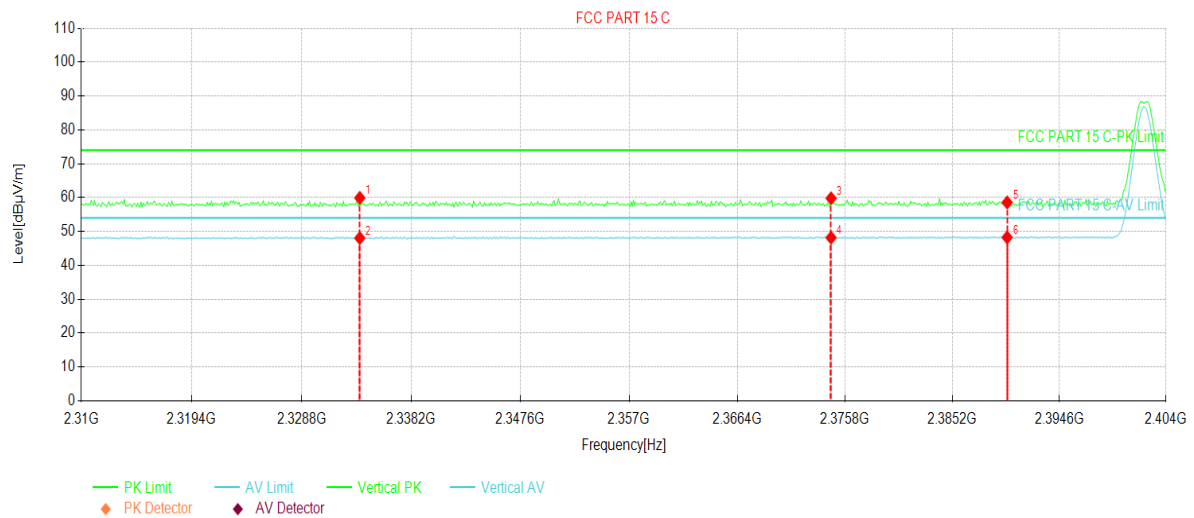
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Trace	Polarity
1	2483.50	22.53	35.51	58.04	74.00	15.96	PK	Horizontal
2	2483.50	12.68	35.51	48.19	54.00	5.81	AV	Horizontal
3	2488.75	12.61	35.50	48.11	54.00	5.89	AV	Horizontal
4	2488.75	23.45	35.50	58.95	74.00	15.05	PK	Horizontal
5	2494.54	23.17	35.49	58.66	74.00	15.34	PK	Horizontal
6	2494.54	12.63	35.49	48.12	54.00	5.88	AV	Horizontal

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).

Product Name:	Mobile Phone	Product Model:	AD9
Test By:	Mike	Test mode:	BLE Tx (LE Coded PHY, S=8)
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	DC 3.87V		



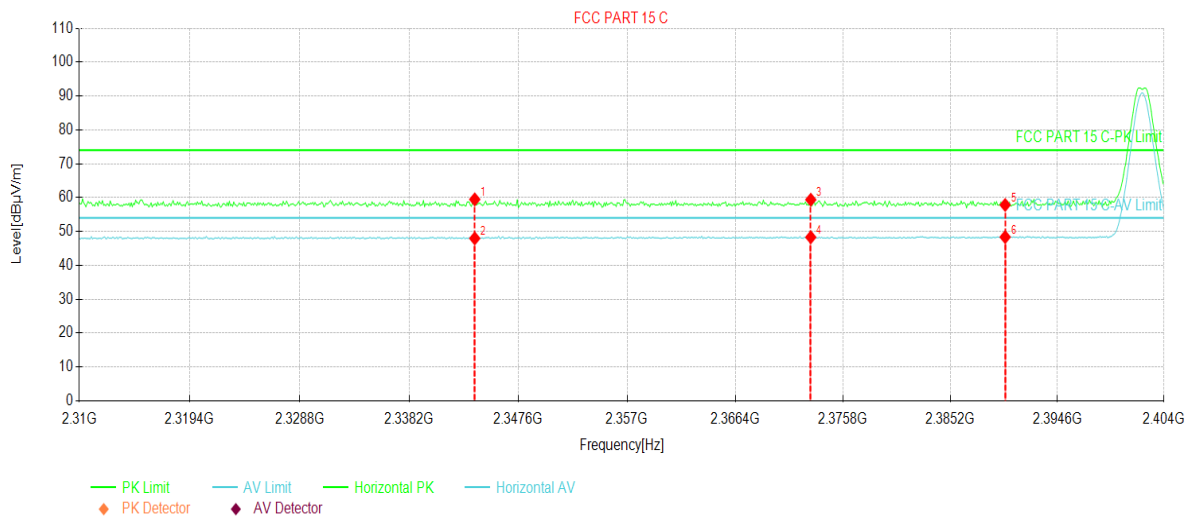
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Trace	Polarity
1	2333.78	24.77	35.17	59.94	74.00	14.06	PK	Vertical
2	2333.78	12.90	35.17	48.07	54.00	5.93	AV	Vertical
3	2374.57	24.33	35.48	59.81	74.00	14.19	PK	Vertical
4	2374.57	12.70	35.48	48.18	54.00	5.82	AV	Vertical
5	2390.00	22.97	35.60	58.57	74.00	15.43	PK	Vertical
6	2390.00	12.66	35.60	48.26	54.00	5.74	AV	Vertical

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).

Product Name:	Mobile Phone	Product Model:	AD9
Test By:	Mike	Test mode:	BLE Tx (LE Coded PHY, S=8)
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	DC 3.87V		



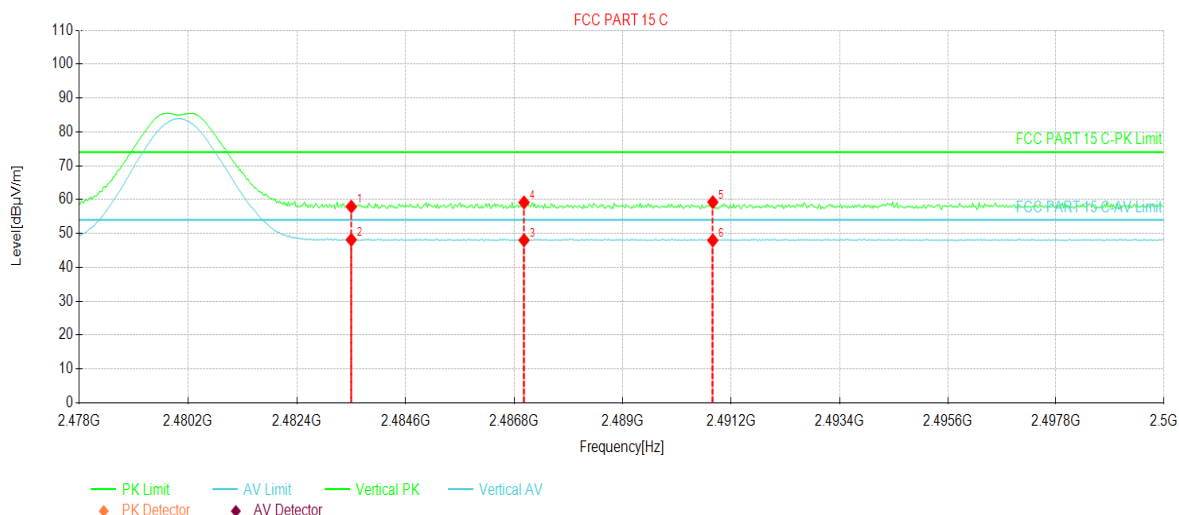
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Trace	Polarity
1	2343.84	24.23	35.25	59.48	74.00	14.52	PK	Horizontal
2	2343.84	12.72	35.25	47.97	54.00	6.03	AV	Horizontal
3	2372.98	23.92	35.47	59.39	74.00	14.61	PK	Horizontal
4	2372.98	12.84	35.47	48.31	54.00	5.69	AV	Horizontal
5	2390.00	22.24	35.60	57.84	74.00	16.16	PK	Horizontal
6	2390.00	12.76	35.60	48.36	54.00	5.64	AV	Horizontal

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).

Product Name:	Mobile Phone	Product Model:	AD9
Test By:	Mike	Test mode:	BLE Tx (LE Coded PHY, S=8)
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	DC 3.87V		



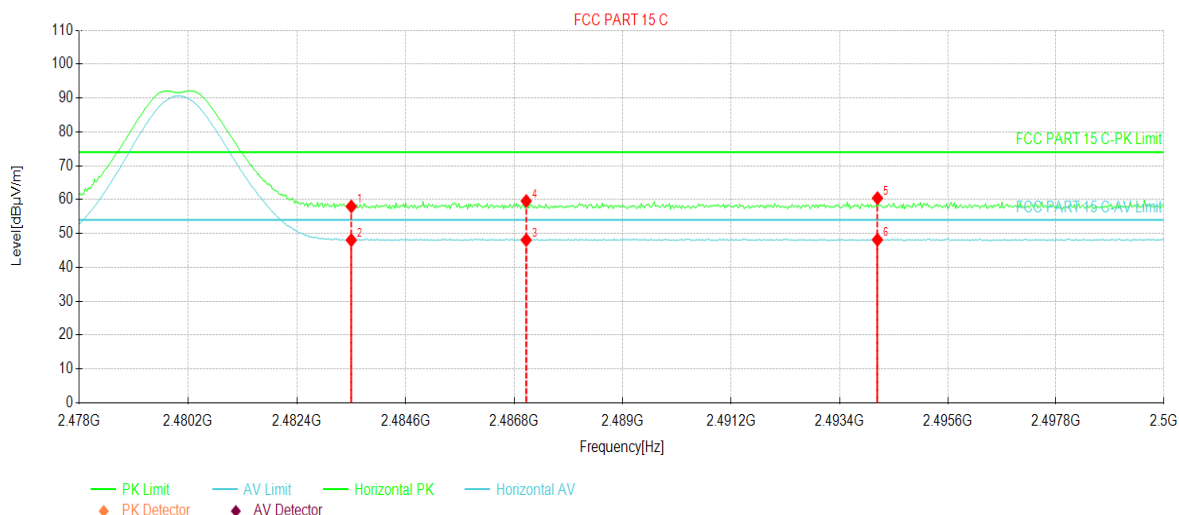
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Trace	Polarity
1	2483.50	22.43	35.51	57.94	74.00	16.06	PK	Vertical
2	2483.50	12.63	35.51	48.14	54.00	5.86	AV	Vertical
3	2486.99	12.51	35.50	48.01	54.00	5.99	AV	Vertical
4	2486.99	23.67	35.50	59.17	74.00	14.83	PK	Vertical
5	2490.82	23.77	35.50	59.27	74.00	14.73	PK	Vertical
6	2490.82	12.47	35.50	47.97	54.00	6.03	AV	Vertical

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).

Product Name:	Mobile Phone	Product Model:	AD9
Test By:	Mike	Test mode:	BLE Tx (LE Coded PHY, S=8)
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	DC 3.87V		



Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Trace	Polarity
1	2483.50	22.46	35.51	57.97	74.00	16.03	PK	Horizontal
2	2483.50	12.53	35.51	48.04	54.00	5.96	AV	Horizontal
3	2487.04	12.58	35.50	48.08	54.00	5.92	AV	Horizontal
4	2487.04	24.09	35.50	59.59	74.00	14.41	PK	Horizontal
5	2494.17	24.93	35.49	60.42	74.00	13.58	PK	Horizontal
6	2494.17	12.66	35.49	48.15	54.00	5.85	AV	Horizontal

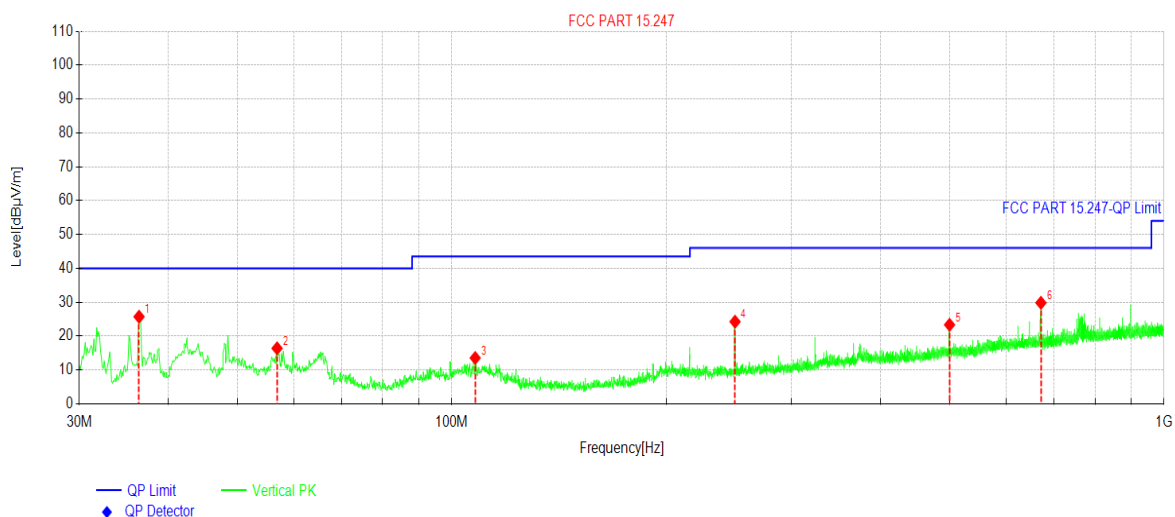
Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).

5.3 Emissions in Non-restricted Frequency Bands

Below 1GHz:

Product Name:	Mobile Phone	Product Model:	AD9
Test By:	Mike	Test mode:	BLE Tx (LE 1M PHY)
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical
Test Voltage:	DC 3.87V		



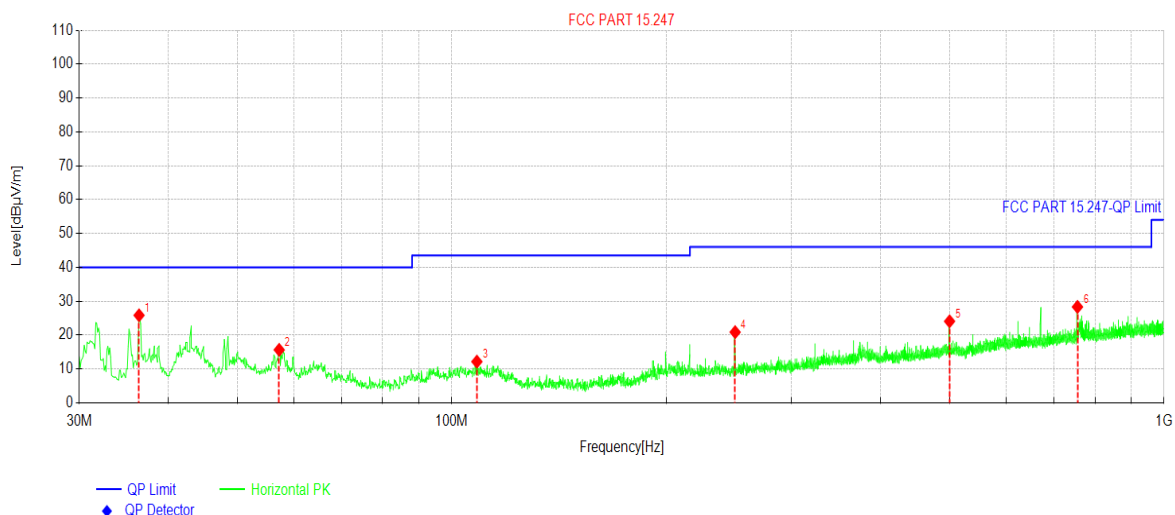
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Polarity
1	36.4026	40.67	25.72	-14.95	40.00	14.28	PK	Vertical
2	56.8717	30.04	16.40	-13.64	40.00	23.60	PK	Vertical
3	107.898	28.28	13.56	-14.72	43.50	29.94	PK	Vertical
4	249.921	38.26	24.26	-14.00	46.00	21.74	PK	Vertical
5	500.012	32.34	23.35	-8.99	46.00	22.65	PK	Vertical
6	671.816	35.69	29.84	-5.85	46.00	16.16	PK	Vertical

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).

Product Name:	Mobile Phone	Product Model:	AD9
Test By:	Mike	Test mode:	BLE Tx (LE 1M PHY)
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Horizontal
Test Voltage:	DC 3.87V		



Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Polarity
1	36.4026	40.81	25.86	-14.95	40.00	14.14	PK	Horizontal
2	57.2597	29.38	15.65	-13.73	40.00	24.35	PK	Horizontal
3	108.480	26.94	12.17	-14.77	43.50	31.33	PK	Horizontal
4	250.018	34.88	20.88	-14.00	46.00	25.12	PK	Horizontal
5	500.012	33.07	24.08	-8.99	46.00	21.92	PK	Horizontal
6	756.020	32.62	28.34	-4.28	46.00	17.66	PK	Horizontal

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).

Above 1GHz:

BLE Tx (LE 1M PHY)						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4804.00	55.08	-9.60	45.48	74.00	28.52	Vertical
4804.00	55.07	-9.60	45.47	74.00	28.53	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4804.00	45.51	-9.60	35.91	54.00	18.09	Vertical
4804.00	46.13	-9.60	36.53	54.00	17.47	Horizontal
Test channel: Middle channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4884.00	53.85	-9.04	44.81	74.00	29.19	Vertical
4884.00	54.97	-9.04	45.93	74.00	28.07	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4884.00	45.81	-9.04	36.77	54.00	17.23	Vertical
4884.00	46.92	-9.04	37.88	54.00	16.12	Horizontal
Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4960.00	54.62	-8.45	46.17	74.00	27.83	Vertical
4960.00	54.40	-8.45	45.95	74.00	28.05	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4960.00	47.03	-8.45	38.58	54.00	15.42	Vertical
4960.00	46.72	-8.45	38.27	54.00	15.73	Horizontal
Remark: 1. Level = Reading + Factor. 2. Test Frequency up to 25GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.						

BLE Tx (LE 2M PHY)						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4804.00	53.85	-9.60	44.25	74.00	29.75	Vertical
4804.00	53.98	-9.60	44.38	74.00	29.62	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4804.00	46.90	-9.60	37.30	54.00	16.70	Vertical
4804.00	46.97	-9.60	37.37	54.00	16.63	Horizontal
Test channel: Middle channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4884.00	53.98	-9.04	44.94	74.00	29.06	Vertical
4884.00	54.79	-9.04	45.75	74.00	28.25	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4884.00	46.38	-9.04	37.34	54.00	16.66	Vertical
4884.00	46.26	-9.04	37.22	54.00	16.78	Horizontal
Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4960.00	54.64	-8.45	46.19	74.00	27.81	Vertical
4960.00	54.76	-8.45	46.31	74.00	27.69	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4960.00	46.41	-8.45	37.96	54.00	16.04	Vertical
4960.00	47.28	-8.45	38.83	54.00	15.17	Horizontal
Remark: 1. Level = Reading + Factor. 2. Test Frequency up to 25GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.						

BEL Tx (LE Coded PHY, S=2)						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4804.00	53.12	-9.60	43.52	74.00	30.48	Vertical
4804.00	53.59	-9.60	43.99	74.00	30.01	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4804.00	46.69	-9.60	37.09	54.00	16.91	Vertical
4804.00	46.75	-9.60	37.15	54.00	16.85	Horizontal
Test channel: Middle channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4884.00	54.60	-9.04	45.56	74.00	28.44	Vertical
4884.00	55.13	-9.04	46.09	74.00	27.91	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4884.00	46.70	-9.04	37.66	54.00	16.34	Vertical
4884.00	47.03	-9.04	37.99	54.00	16.01	Horizontal
Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4960.00	54.31	-8.45	45.86	74.00	28.14	Vertical
4960.00	54.05	-8.45	45.60	74.00	28.40	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4960.00	46.76	-8.45	38.31	54.00	15.69	Vertical
4960.00	48.70	-8.45	40.25	54.00	13.75	Horizontal
Remark: 1. Level = Reading + Factor. 2. Test Frequency up to 25GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.						

BEL Tx (LE Coded PHY, S=8)						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4804.00	52.61	-9.60	43.01	74.00	30.99	Vertical
4804.00	54.45	-9.60	44.85	74.00	29.15	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4804.00	46.46	-9.60	36.86	54.00	17.14	Vertical
4804.00	45.80	-9.60	36.20	54.00	17.80	Horizontal
Test channel: Middle channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4884.00	53.06	-9.04	44.02	74.00	29.98	Vertical
4884.00	53.46	-9.04	44.42	74.00	29.58	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4884.00	46.74	-9.04	37.70	54.00	16.30	Vertical
4884.00	45.62	-9.04	36.58	54.00	17.42	Horizontal
Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4960.00	54.90	-8.45	46.45	74.00	27.55	Vertical
4960.00	54.59	-8.45	46.14	74.00	27.86	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4960.00	46.81	-8.45	38.36	54.00	15.64	Vertical
4960.00	48.88	-8.45	40.43	54.00	13.57	Horizontal
Remark: 1. Level = Reading + Factor. 2. Test Frequency up to 25GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.						

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