FCC RADIO TEST REPORT

FCC ID	**:**	**UZ7CR6080SA**
Equipment	**:**	**4D Cup**
Brand Name		**Zebra**
Model Name	**:**	**CR6080-SA**
Applicant	**:**	**Zebra Technologies Corporation** **1 Zebra Plaza, Holtsville, NY 11742**
Manufacturer		**Zebra Technologies Corporation** **1 Zebra Plaza, Holtsville, NY 11742**
Standard	**:**	**FCC Part 15 Subpart C §15.209**

The product was received on Aug. 12, 2020 and testing was started from Aug. 18, 2020 and completed on Aug. 29, 2020. We, SPORTON INTERNATIONAL INC., EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory
No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)

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History of this test report

Report No.	Version	Description	Issued Date
FR050617-02	01	Initial issue of report	Sep. 09, 2020

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.207	AC Power Line Conducted Emissions	Pass	Under limit 8.83 dB at 0.498MHz
3.2	15.215(c)	20dB Spectrum Bandwidth	Reporting only	-
	2.1049	99% OBW Spectrum Bandwidth	Reporting only	-
3.3	15.209	Field Strength of Fundamental Emissions	Pass	Max level 6.78 dBμV/m at 0.150 MHz
		Radiated Spurious Emissions	Pass	Under limit 6.39 dB at 195.510MHz
3.4	15.203	Antenna Requirements	Pass	-

Declaration of Conformity:
The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
Comments and Explanations:
The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Wii Chang

Report Producer: Dara Chiu

1. General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	4D Cup
Brand Name	Zebra
Model Name	CR6080-SA
FCC ID	UZ7CR6080SA
EUT supports Radios application	WPC/WPT
MFD	29JUL20
EUT Stage	Engineering sample

Remark: The above EUT's information was declared by manufacturer.

Specification of Accessories				
AC Adapter	**Brand Name**	Zebra	**Part Number**	PWR-BGA12V50W0WW
DC Cable	**Brand Name**	Zebra	**Part Number**	CBL-DC-388A1-01

Supported Unit Used in Test Configuration and System				
Scanner	**Brand Name**	Zebra	**Model Number**	CS6080

1.2 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Frequency	111 kHz ~ 205 kHz
Channel Number	1
20dBW	<For Slot 1>: 0.780 kHZ <For Slot 2>: 0.780 kHZ <For Slot 3>: 0.780 kHZ <For Slot 4>: 0.800 kHZ
99%OBW	<For Slot 1>: 0.650 kHZ <For Slot 2>: 0.660 kHZ <For Slot 3>: 0.670 kHZ <For Slot 4>: 0.670 kHZ
Antenna Type	Loop Antenna
Type of Modulation	ASK

Remark: The above EUT's information was declared by manufacturer.

1.3 Modification of EUT

No modifications are made to the EUT during all test items.

1.4 Testing Location

Test Site	SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory		
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978		
Test Site No.	**Sporton Site No.**		
	TH03-HY	CO05-HY	03CH07-HY
Test Engineer	Oscar Chi	Tom Lee	Stan Hsieh and Ken Wu
Temperature	23.9~24.9℃	24~26℃	23~25℃
Relative Humidity	48.8~49.8%	42~50%	51~58%

Note: The test site complies with ANSI C63.4 2014 requirement.

FCC designation No.: TW1190

1.5 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC Part 15 Subpart C §15.209
- FCC KDB 414788 D01 Radiated Test Site v01r01
- ANSI C63.10-2013

Remark:

1. The TAF code is not including all the FCC KDB listed without accreditation.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

2. Test Configuration of Equipment Under Test

2.1 Descriptions of Test Mode

Investigation has been done on all the possible configurations.

The following table is a list of the test modes shown in this test report.

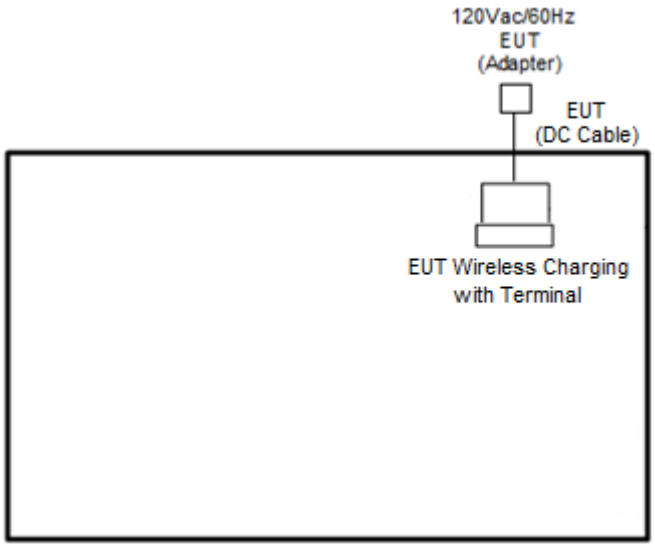
Test Items	
AC Power Line Conducted Emissions	20dB Spectrum Bandwidth
Field Strength of Fundamental Emissions	
Radiated Emissions 9kHz~30MHz	Radiated Emissions 30MHz~1GHz

Pre-scanned tests, X, Y, Z in three orthogonal panels to determine the final configuration (Y Plane as worst plane) from all possible combinations.

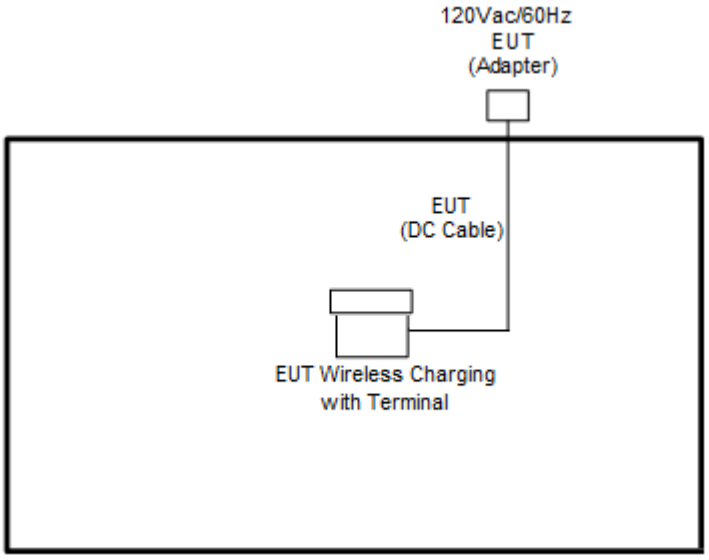
Test Cases	
AC Conducted Emission	Mode 1: Wireless Charging with Terminal (CS6080) + DC Cable (Charging from AC Adapter)

2.2 Connection Diagram of Test System

<EUT Wireless Charging with Terminal>



<WPT Mode>



2.3 EUT Operation Test Setup

The Terminal charger from the EUT via wireless power transfer function.

3. Test Results

3.1 AC Power Line Conducted Emissions Measurement

3.1.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of Emission (MHz)	Conducted Limit (dBμV)	
	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.

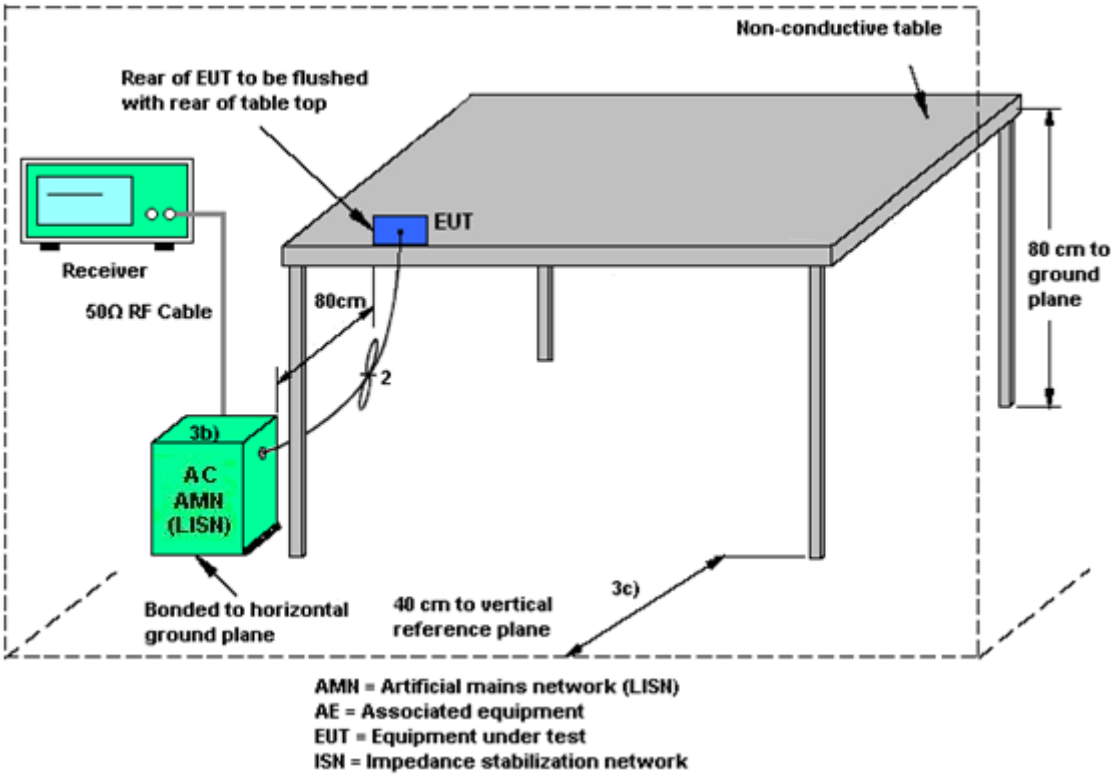
3.1.2 Measuring Instruments

See list of measuring equipment of this test report.

3.1.3 Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room, and it was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

3.1.4 Test setup



3.1.5 Test Result of AC Conducted Emission

Please refer to Appendix A.

3.2 20dB and 99% OBW Spectrum Bandwidth Measurement

3.2.1 Limit

Reporting only

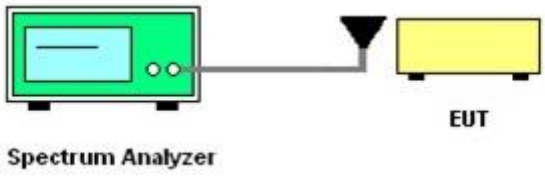
3.2.2 Measuring Instruments

See list of measuring instruments of this test report.

3.2.3 Test Procedures

1. The spectrum analyzer connected via a receive antenna placed near the EUT in peak Max hold mode.
2. The resolution bandwidth of 1 kHz and the video bandwidth of 3 kHz were used.
3. Measured the spectrum width with power higher than 20dB below carrier.
4. Measured the 99% OBW.

3.2.4 Test Setup



3.2.5 Test Result of Conducted Test Items

Please refer to Appendix B.

3.3 Radiated Emissions Measurement

3.3.1 Limit

The field strength of any emissions which appear band shall not exceed the general radiated emissions limits.

Frequencies (MHz)	Field Strength (μV/m)	Measurement Distance (meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

3.3.2 Measuring Instruments

See list of measuring instruments of this test report.

3.3.3 Measuring Instrument Setting

The following table is the setting of receiver:

Receiver Parameter	Setting
Attenuation	Auto
Frequency Range: 9kHz~150kHz	RBW 200Hz for QP
Frequency Range: 150kHz~30MHz	RBW 9kHz for QP
Frequency Range: 30MHz~1000MHz	RBW 120kHz for Peak

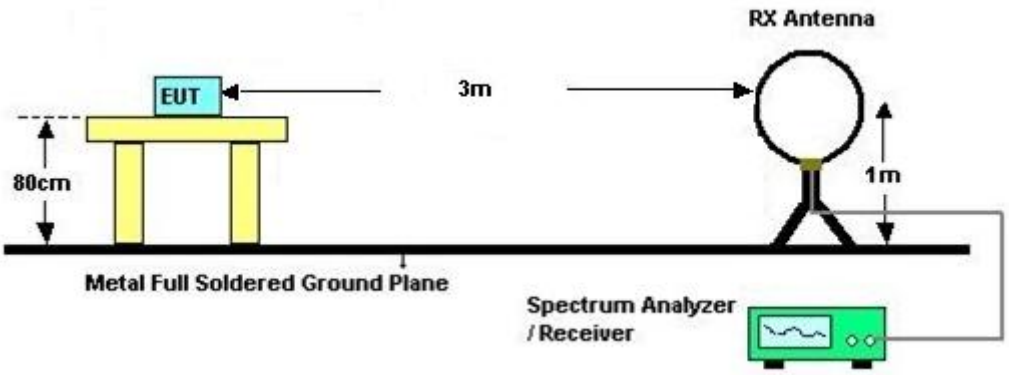
Note: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz and 110-490 kHz. Radiated emission limits in these two bands are based on measurements employing an average detector.

3.3.4 Test Procedures

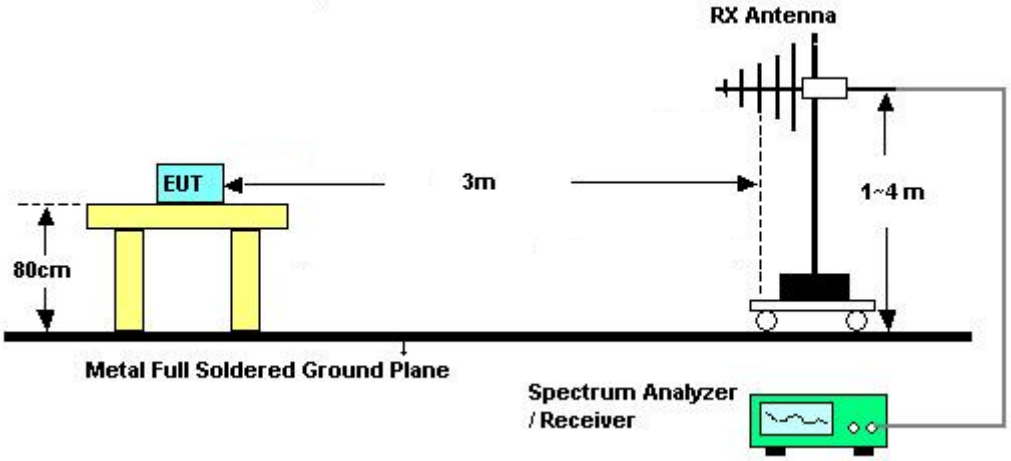
1. Configure the EUT according to ANSI C63.10. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value.
7. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver.

3.3.5 Test Setup

For radiated emissions below 30MHz



For radiated emissions above 30MHz



3.3.6 Test Result of Radiated Emissions Measurement

Please refer to Appendix C.

3.4 Antenna Requirements

3.4.1 Standard Applicable

Except for special regulations, the Low-power Radio-frequency Devices must not be equipped with any jacket for installing an antenna with extension cable. 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 shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited.

The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the rule.

3.4.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

4. List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
AC Power Source	AC POWER	AFC-500W	F104070011	50Hz~60Hz	Apr. 09, 2020	Aug. 29, 2020	Apr. 08, 2021	Conducted (TH03-HY)
Hygrometer	Testo	608-H1	34893241	N/A	Mar. 26, 2020	Aug. 29, 2020	Mar. 25, 2021	Conducted (TH03-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP30	101329	9kHz~30GHz	Sep. 04, 2019	Aug. 29, 2020	Sep. 03, 2020	Conducted (TH03-HY)
Temperature Chamber	ESPEC	SU-641	92013721	-30℃ ~70℃	Nov. 26, 2019	Aug. 29, 2020	Nov. 25, 2020	Conducted (TH03-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N -06	35419 & 03	30MHz~1GHz	Apr. 29, 2020	Aug. 24, 2020~ Aug. 25, 2020	Apr. 28, 2021	Radiation (03CH07-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Dec. 26, 2019	Aug. 24, 2020~ Aug. 25, 2020	Dec. 25, 2020	Radiation (03CH07-HY)
Preamplifier	COM-POWER	PA-103A	161241	10MHz~1GHz	May 19, 2020	Aug. 24, 2020~ Aug. 25, 2020	May 18, 2021	Radiation (03CH07-HY)
Filter	Wainwright	WHK20/1000C 7/40SS	SN1	20MHz High Pass Filter	Aug. 21, 2020	Aug. 24, 2020~ Aug. 25, 2020	Aug. 20, 2021	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY24971/4, MY28655/4	9kHz~30MHz	Feb. 25, 2020	Aug. 24, 2020~ Aug. 25, 2020	Feb. 24, 2021	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655/4, MY24971/4, MY15682/4	30MHz~1GHz	Feb. 25, 2020	Aug. 24, 2020~ Aug. 25, 2020	Feb. 24, 2021	Radiation (03CH07-HY)
Controller	ChainTek	Chaintek 3000	N/A	Control Turn table	N/A	Aug. 24, 2020~ Aug. 25, 2020	N/A	Radiation (03CH07-HY)
Controller	Max-Full	MF7802	MF780208368	Control Ant Mast	N/A	Aug. 24, 2020~ Aug. 25, 2020	N/A	Radiation (03CH07-HY)
Antenna Mast	Max-Full	MFA520BS	N/A	1m~4m	N/A	Aug. 24, 2020~ Aug. 25, 2020	N/A	Radiation (03CH07-HY)
Turn Table	ChainTek	Chaintek 3000	N/A	0~360 Degree	N/A	Aug. 24, 2020~ Aug. 25, 2020	N/A	Radiation (03CH07-HY)
EMI Test Receiver	Agilent	N9038A(MXE)	MY53290053	20Hz~26.5GHz	May 21, 2020	Aug. 24, 2020~ Aug. 25, 2020	May 20, 2021	Radiation (03CH07-HY)
Software	Audix	E3 6.2009-8-24	80504004656H	N/A	N/A	Aug. 24, 2020~ Aug. 25, 2020	N/A	Radiation (03CH07-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Aug. 18, 2020	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Nov. 15, 2019	Aug. 18, 2020	Nov. 14, 2020	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Nov. 07, 2019	Aug. 18, 2020	Nov. 06, 2020	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 15, 2019	Aug. 18, 2020	Nov. 14, 2020	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Aug. 18, 2020	N/A	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Jan. 02, 2020	Aug. 18, 2020	Jan. 01, 2021	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Jan. 02, 2020	Aug. 18, 2020	Jan. 01, 2021	Conduction (CO05-HY)

5. Uncertainty of Evaluation

Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**2.3**

Uncertainty of Radiated Emission Measurement (9 kHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**2.9**

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**4.7**

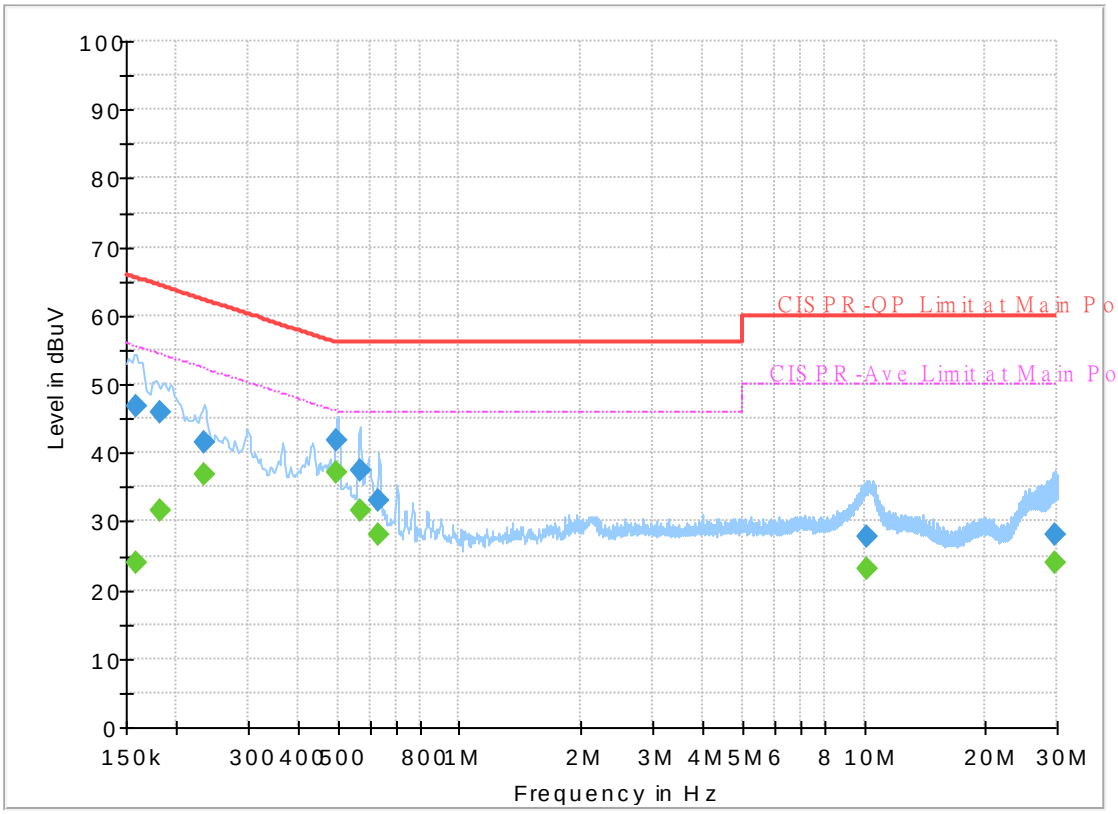
Appendix A. Test Results of Conducted Emission Test

Test Engineer :	Tom Lee	**Temperature :**	24~26℃
		Relative Humidity :	42~50%

EUT Information

Report NO :	050617-02
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Line

Full Spectrum



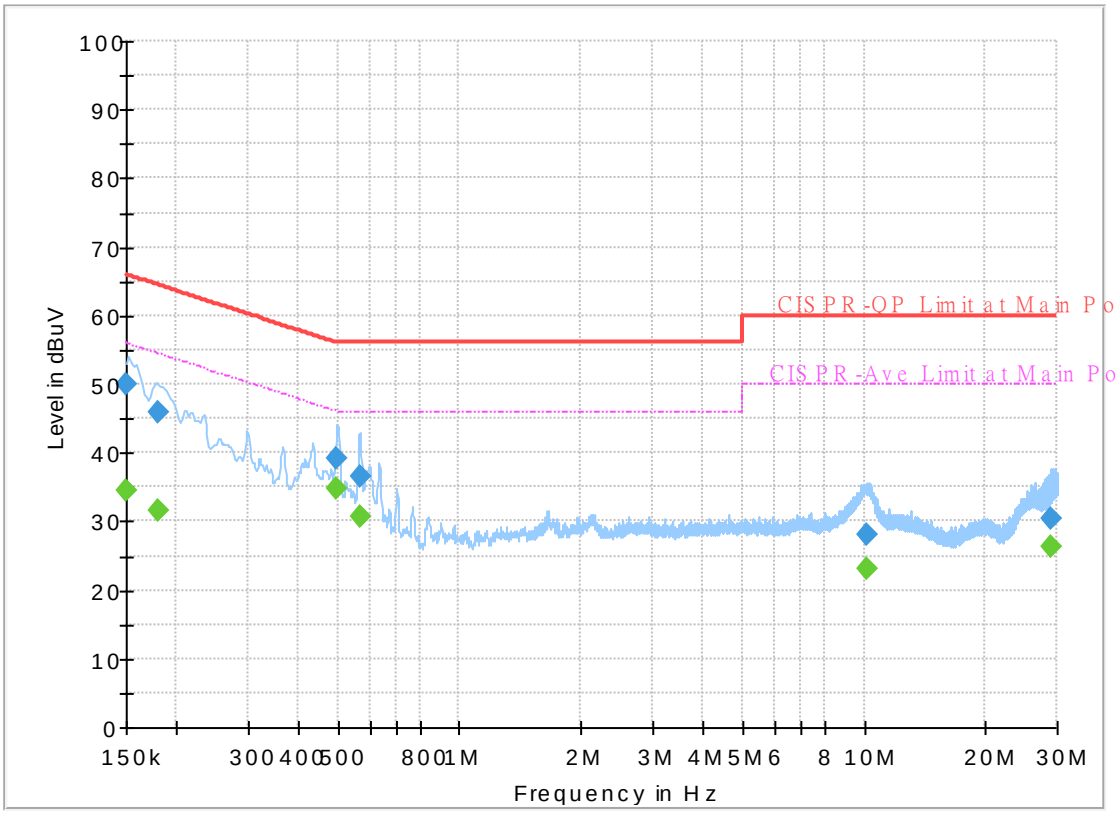
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.157920	---	24.10	55.57	31.47	L1	OFF	19.5
0.157920	46.79	---	65.57	18.78	L1	OFF	19.5
0.181500	---	31.55	54.42	22.87	L1	OFF	19.5
0.181500	45.92	---	64.42	18.50	L1	OFF	19.5
0.233610	---	36.97	52.32	15.35	L1	OFF	19.5
0.233610	41.62	---	62.32	20.70	L1	OFF	19.5
0.497760	---	37.21	46.04	8.83	L1	OFF	19.5
0.497760	41.72	---	56.04	14.32	L1	OFF	19.5
0.569580	---	31.56	46.00	14.44	L1	OFF	19.5
0.569580	37.35	---	56.00	18.65	L1	OFF	19.5
0.627540	---	28.09	46.00	17.91	L1	OFF	19.5
0.627540	33.15	---	56.00	22.85	L1	OFF	19.5
10.173750	---	22.96	50.00	27.04	L1	OFF	19.8
10.173750	27.89	---	60.00	32.11	L1	OFF	19.8
29.733000	---	24.03	50.00	25.97	L1	OFF	19.8
29.733000	28.02	---	60.00	31.98	L1	OFF	19.8

EUT Information

Report NO :	050617-02
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Neutral

Full Spectrum



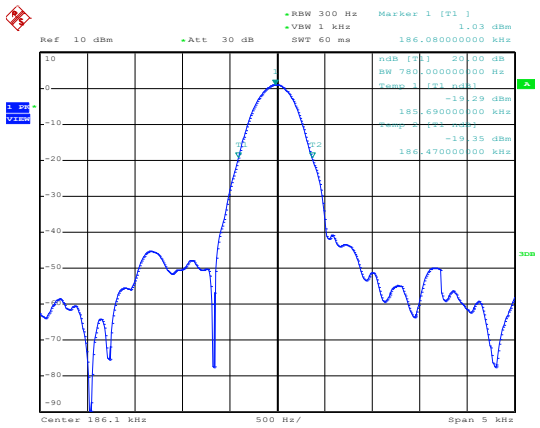
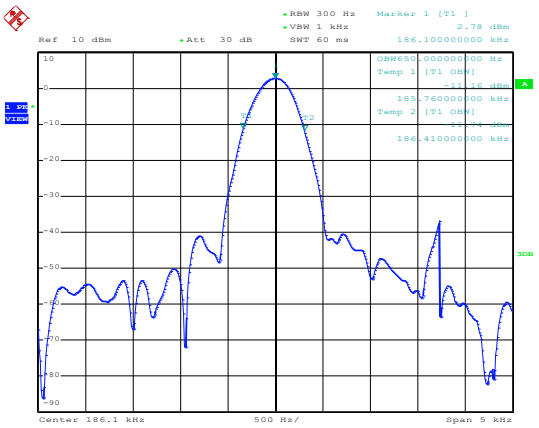
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.150000	---	34.51	56.00	21.49	N	OFF	19.5
0.150000	50.10	---	66.00	15.90	N	OFF	19.5
0.180780	---	31.50	54.45	22.95	N	OFF	19.5
0.180780	45.84	---	64.45	18.61	N	OFF	19.5
0.498210	---	34.90	46.03	11.13	N	OFF	19.5
0.498210	39.29	---	56.03	16.74	N	OFF	19.5
0.567600	---	30.71	46.00	15.29	N	OFF	19.5
0.567600	36.51	---	56.00	19.49	N	OFF	19.5
10.110750	---	23.16	50.00	26.84	N	OFF	19.8
10.110750	28.10	---	60.00	31.90	N	OFF	19.8
29.033250	---	26.36	50.00	23.64	N	OFF	20.0
29.033250	30.39	---	60.00	29.61	N	OFF	20.0

Appendix B. Test Results of Conducted Test Items

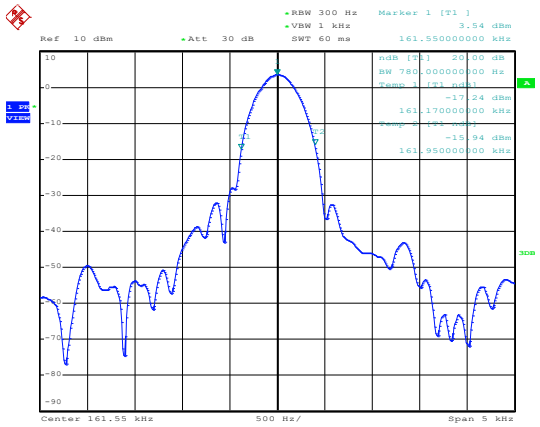
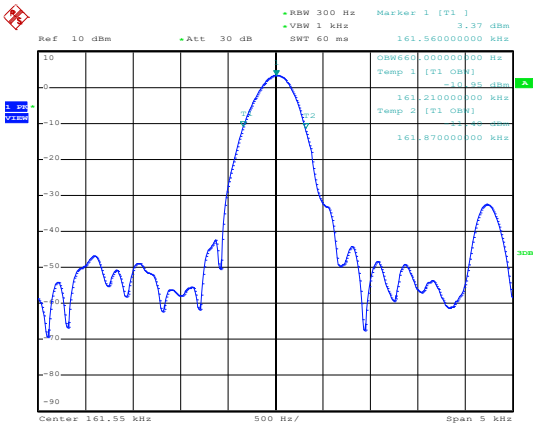
B1. Test Result

<For Slot 1>

Test mode	WPT Tx		
			
20dB Bandwidth (kHz)	0.780	**99% Occupied BW(kHz)**	0.650

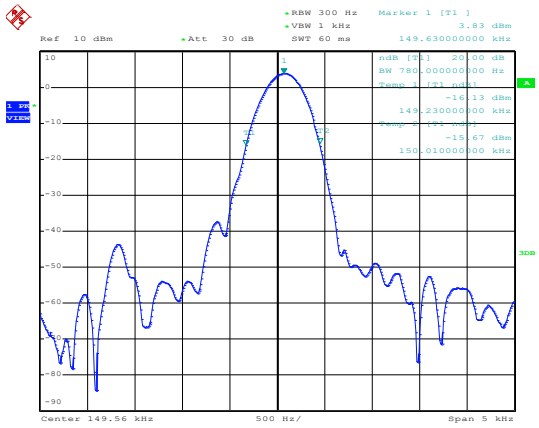
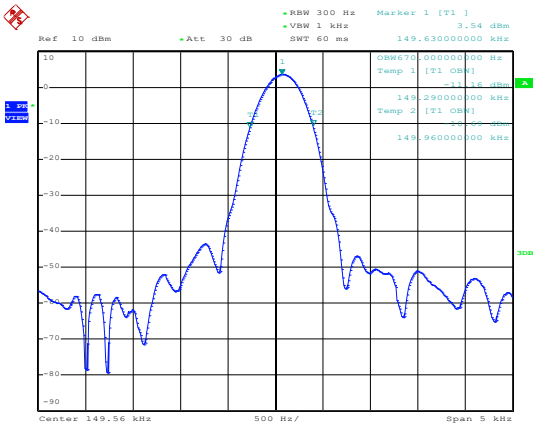
Remark: Because the measured signal is CW adjusting the RBW per C63.10 would not be practical since measured bandwidth will always follow the RBW and the result will be approximately twice the RBW.

<For Slot 2>

Test mode	WPT Tx		
			
20dB Bandwidth (kHz)	0.780	**99% Occupied BW(kHz)**	0.660

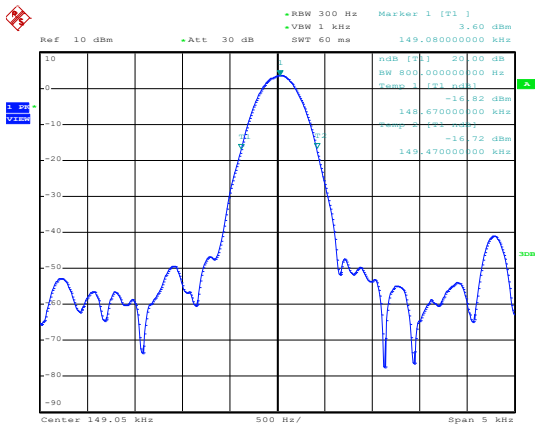
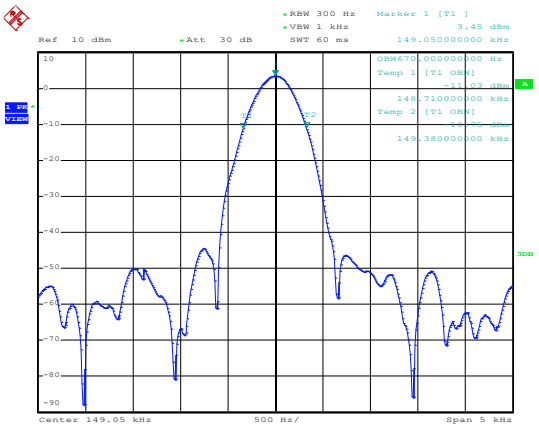
Remark: Because the measured signal is CW adjusting the RBW per C63.10 would not be practical since measured bandwidth will always follow the RBW and the result will be approximately twice the RBW.

<For Slot 3>

Test mode	WPT Tx		
			
20dB Bandwidth (kHz)	0.780	**99% Occupied BW(kHz)**	0.670

Remark: Because the measured signal is CW adjusting the RBW per C63.10 would not be practical since measured bandwidth will always follow the RBW and the result will be approximately twice the RBW.

<For Slot 4>

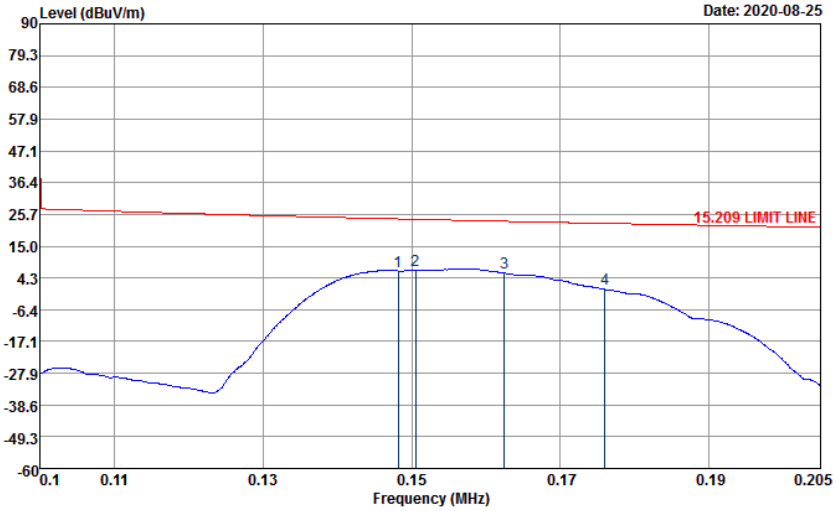
Test mode	WPT Tx		
			
20dB Bandwidth (kHz)	0.800	**99% Occupied BW(kHz)**	0.670

Remark: Because the measured signal is CW adjusting the RBW per C63.10 would not be practical since measured bandwidth will always follow the RBW and the result will be approximately twice the RBW.

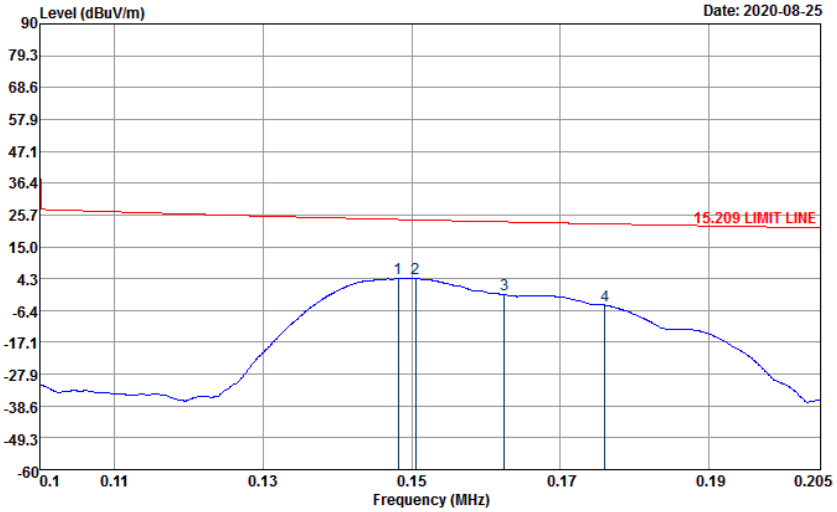
Appendix C. Test Results of Radiated Test Items

C1. Test Result of Field Strength of Fundamental Emissions

Test Mode :	WPT



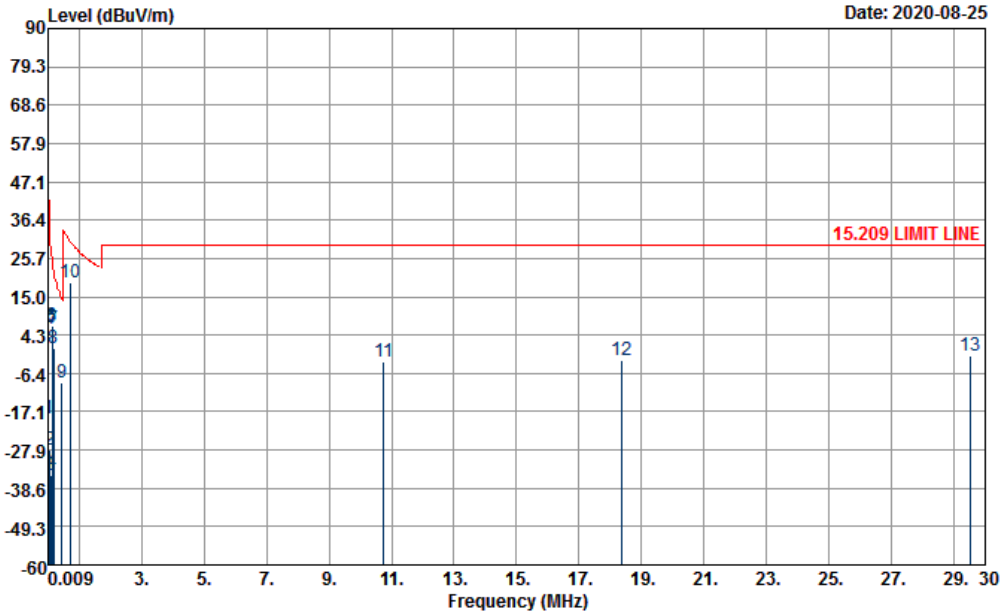
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg	
1	0.15	6.64	-17.55	24.19	67.77	18.67	0.20	100	0	QP
2	0.15	6.78	-17.27	24.05	67.91	18.67	0.20	100	0	QP
3	0.16	5.83	-17.56	23.39	66.95	18.67	0.21	100	0	QP
4	0.18	0.38	-22.31	22.69	61.40	18.76	0.22	100	0	QP



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg	
1	0.15	4.34	-19.85	24.19	65.47	18.67	0.20	100	96	QP
2	0.15	4.33	-19.72	24.05	65.46	18.67	0.20	100	96	QP
3	0.16	-1.03	-24.42	23.39	60.09	18.67	0.21	100	96	QP
4	0.18	-4.66	-27.35	22.69	56.36	18.76	0.22	100	96	QP

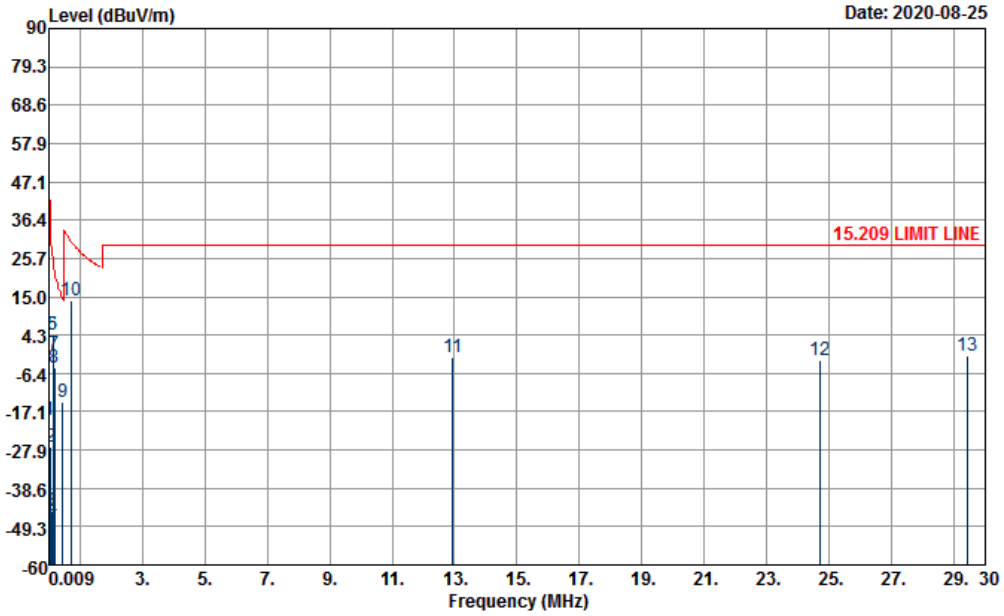
C2. Results of Radiated Spurious Emissions (9 kHz~30MHz)

Test Mode :	WPT Tx	Polarization :	Horizontal



Frequency (MHz)	Level (dBµV/m)	Distance extrapolation Factor (dB)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
0.01313	-19.05	-80	-64.29	45.24	42.13	18.7	0.12	-	-	Average
0.07356	-27.75	-80	-58.02	30.27	33.09	19	0.16	-	-	Average
0.09878	-34.74	-80	-62.45	27.71	26.59	18.5	0.17	-	-	QP
0.1428	-34.05	-80	-58.56	24.51	27.16	18.59	0.2	-	-	Average
0.1482	6.64	-80	-17.55	24.19	67.77	18.67	0.2	-	-	Average
0.15051	6.78	-80	-17.27	24.05	67.91	18.67	0.2	-	-	Average
0.16248	5.83	-80	-17.56	23.39	66.95	18.67	0.21	-	-	Average
0.17602	0.38	-80	-22.31	22.69	61.4	18.76	0.22	-	-	Average
0.44648	-9.05	-80	-23.66	14.61	51.44	19.18	0.33	-	-	Average
0.74534	18.88	-40	-11.28	30.16	39.47	19.09	0.32	100	0	QP
10.744	-3.19	-40	-32.69	29.5	15.64	20.77	0.4	-	-	QP
18.349	-2.67	-40	-32.17	29.5	15.4	21.54	0.39	-	-	QP
29.5	-1.62	-40	-31.12	29.5	15.04	22.46	0.88	-	-	QP

Test Mode :	WPT Tx	Polarization :	Vertical



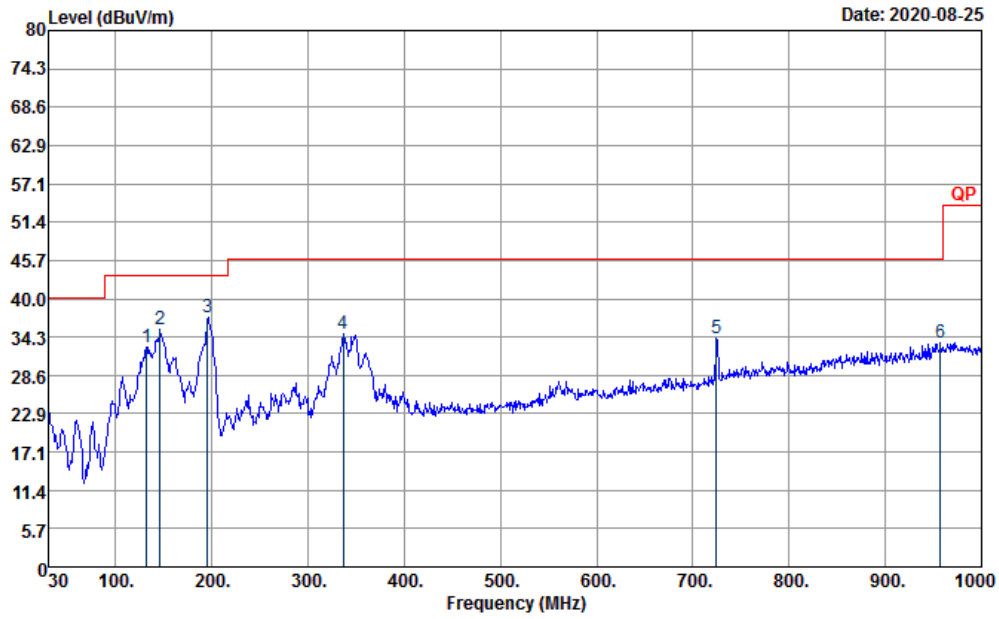
Frequency (MHz)	Level (dBµV/m)	Distance extrapolation Factor (dB)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
0.01313	-19.39	-80	-64.63	45.24	41.79	18.7	0.12	-	-	Average
0.07176	-26.89	-80	-57.38	30.49	33.96	19	0.15	-	-	Average
0.09018	-45.07	-80	-73.57	28.5	16.27	18.5	0.16	-	-	QP
0.13968	-46.88	-80	-71.58	24.7	14.34	18.59	0.19	-	-	Average
0.1482	4.34	-80	-19.85	24.19	65.47	18.67	0.2	-	-	Average
0.1501	4.33	-80	-19.75	24.08	65.46	18.67	0.2	-	-	Average
0.16248	-1.03	-80	-24.42	23.39	60.09	18.67	0.21	-	-	Average
0.17602	-4.66	-80	-27.35	22.69	56.36	18.76	0.22	-	-	Average
0.44886	-14.44	-80	-29	14.56	46.05	19.18	0.33	-	-	Average
0.74534	14.09	-40	-16.07	30.16	34.68	19.09	0.32	100	0	QP
12.952	-2.07	-40	-31.57	29.5	16.52	21	0.41	-	-	QP
24.721	-2.59	-40	-32.09	29.5	14.9	22.08	0.43	-	-	QP
29.45	-1.63	-40	-31.13	29.5	15.03	22.46	0.88	-	-	QP

Note:

1. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
2. Distance extrapolation factor = 40 log (specific distance / test distance) (dB);
3. Limit line = specific limits (dBµV) + distance extrapolation factor.

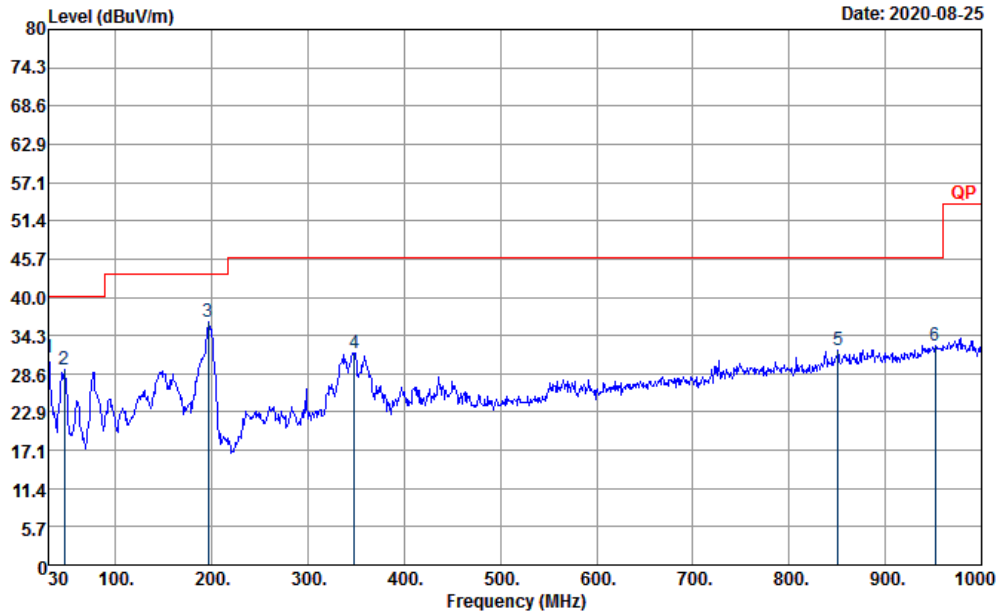
C3. Results of Radiated Spurious Emissions (30MHz~1GHz)

Test Mode :	WPT Tx	Polarization :	Horizontal



Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
132.06	32.8	-10.7	43.5	43.27	17.57	1.92	29.96	-	-	Peak
146.1	35.5	-8	43.5	46.13	17.29	2.03	29.95	-	-	Peak
195.51	37.11	-6.39	43.5	49.8	14.89	2.35	29.93	100	0	Peak
336.4	34.82	-11.18	46	41.72	19.89	3.1	29.89	-	-	Peak
724.2	34.15	-11.85	46	32.31	26.9	4.56	29.62	-	-	Peak
957.3	33.33	-12.67	46	26.24	30.47	5.28	28.66	-	-	Peak

Test Mode :	WPT Tx	Polarization :	Vertical



Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
30	31	-9	40	35.76	24.32	0.93	30.01	-	-	Peak
46.74	29.19	-10.81	40	42.07	15.96	1.15	29.99	-	-	Peak
195.78	36.35	-7.15	43.5	49.04	14.89	2.35	29.93	100	0	Peak
348.3	31.67	-14.33	46	38.18	20.23	3.15	29.89	-	-	Peak
850.9	32.02	-13.98	46	27.54	28.74	4.96	29.22	-	-	Peak
951.7	32.81	-13.19	46	25.93	30.31	5.26	28.69	-	-	Peak

Note:

1. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
2. Emission level (dBµV/m) = 20 log Emission level (µV/m).
3. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor= Level.