



FCC RADIO TEST REPORT

FCC ID : A4RGTF7P
Equipment : Phone
Model Name : GTF7P, G3Y12
Applicant : Google LLC
1600 Amphitheatre Parkway,
Mountain View, California, 94043 USA
Standard : FCC Part 15 Subpart C §15.225

The product was received on May 23, 2024 and testing was performed from Jul. 04, 2024 to Aug. 07, 2024. 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 from Sporton International Inc. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Approved by: Louis Wu

Sportun International Inc. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)



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

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History of this test report



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	21.79 dB under the limit at 0.66MHz
3.2	15.215(c)	20dB Spectrum Bandwidth	Pass	-
	2.1049	99% OBW Spectrum Bandwidth	Pass	-
3.3	15.225(e)	Frequency Stability	Pass	-
3.4	15.225(a)(b)(c)	Field Strength of Fundamental Emissions	Pass	Max level 25.45 dB μ V/m at 13.56 MHz
3.5	15.225(d) 15.209	Radiated Spurious Emissions	Pass	3.19 dB under the limit at 40.68MHz
3.6	15.203	Antenna Requirements	Pass	-

Conformity Assessment Condition:

1. ECR inquiry for data referencing from A4RGXQ96 has been approved by FCC. The ECR inquiry and the associated document are submitted in the confidential exhibit.
2. A4RGTF7P is different from FCC ID: A4RGXQ96 (Reference model), in the following:
 - i. The only difference between A4RGXQ96 and A4RGTF7P are the WWAN support bands, which is controlled by software.
3. All the test results are referenced from A4RGXQ96 (Sportun Test Report FR451606D), and spot check results to justify data referencing is presented in the Appendix D.
4. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
5. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty".

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: William Chen

Report Producer: Wilda Wei



1. General Description

1.1 Product Feature of Equipment Under Test

Product Feature
General Specs GSM/WCDMA/LTE/5G NR, Bluetooth, BLE, BLE channel sounding, Wi-Fi 802.11ax, NFC, WPC Rx and GNSS.
Antenna Type NFC: Loop Antenna

Remark: The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.

EUT Information List	
S/N	Performed Test Item
44291JEBF05116	RF Near Field
	Conducted Emission
46181JEBF10887	Radiated Spurious Emission

1.2 Modification of EUT

No modifications made to the EUT during the testing.



1.3 Testing Location

Test Site	Sportun International Inc. EMC & Wireless Communications Laboratory		
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978		
Test Site No.	Sportun Site No.		
	TH03-HY	CO05-HY	03CH07-HY
Test Engineer	Eric Wu	Calvin Wang	Ken Wu and Jesse Wang
Temperature	23.1~25.1°C	23~26°C	24.6~26.2°C
Relative Humidity	37.1~39.1%	45~55%	59.2~65.5%

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

FCC designation No.: TW1190

1.4 Applicable Standards

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

- FCC Part 15 Subpart C §15.225
- FCC KDB 414788 D01 Radiated Test Site v01r01
- ANSI C63.10-2013

Remark:

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. The TAF code is not including all the FCC KDB listed without accreditation.



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	Field Strength of Fundamental Emissions
20dB Spectrum Bandwidth	Frequency Stability
Radiated Emissions 9kHz~30MHz	Radiated Emissions 30MHz~1GHz

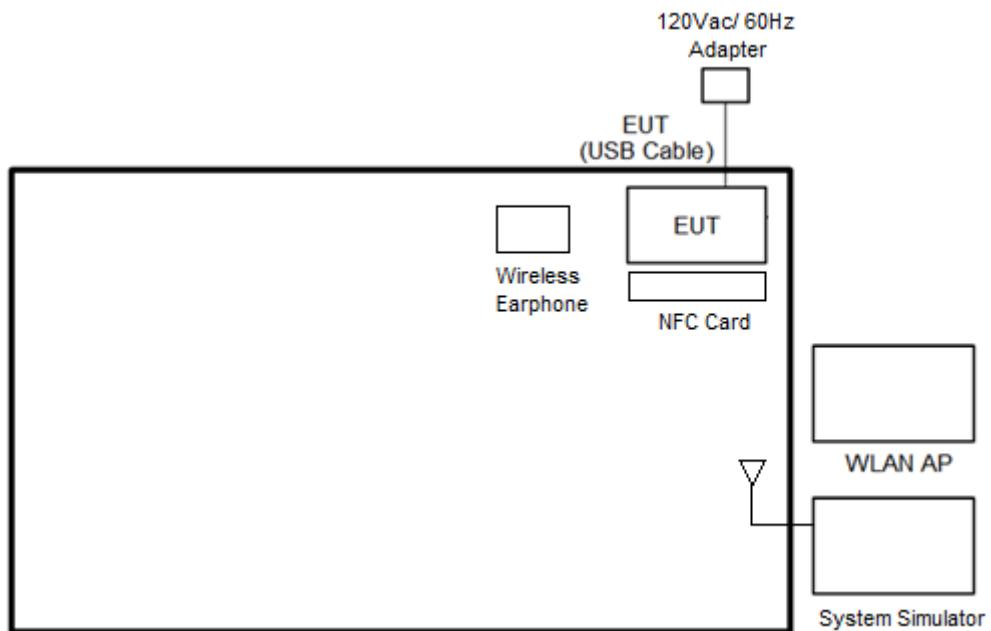
The EUT pre-scanned with app “adb” installed in the notebook (enable continuous transmission with type A/B/F/V tag respectively) and reader mode with NFC tag (four NFC type A, B, F, V). Based on the highest field strength of fundamental and spurious emissions, the worst case type (type F) was recorded in this report.

The measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), Accessory (Adapter or Earphone) and three receiving antenna orientations (parallel, perpendicular, and ground-parallel) for Loop Antenna, and adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and find Z Plane with Adapter and Z Plane with Earphone as worst plane.

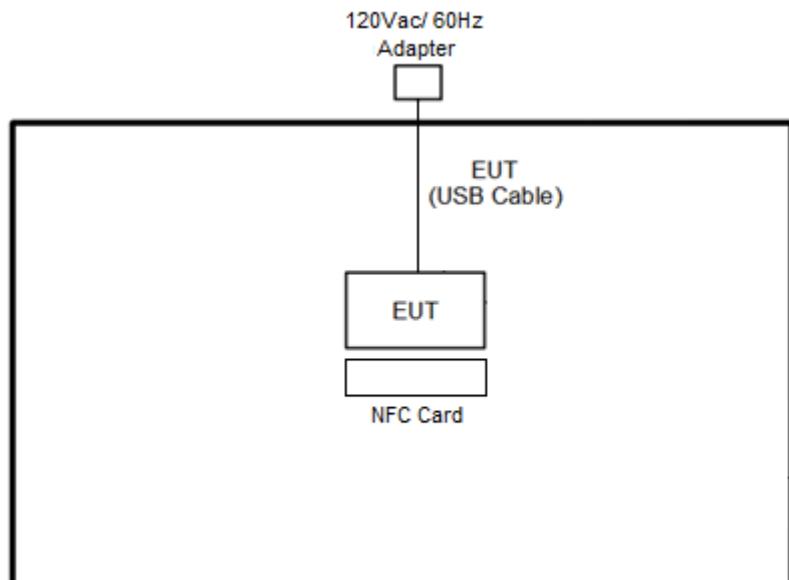
Test Cases	
AC Conducted Emission	Mode 1: GSM Idle + WLAN Idle + Bluetooth Idle + NFC Read + USB Cable 1 (Charging from AC Adapter)
Remark: For Radiated Test Cases, the tests were performed with USB Cable 2	

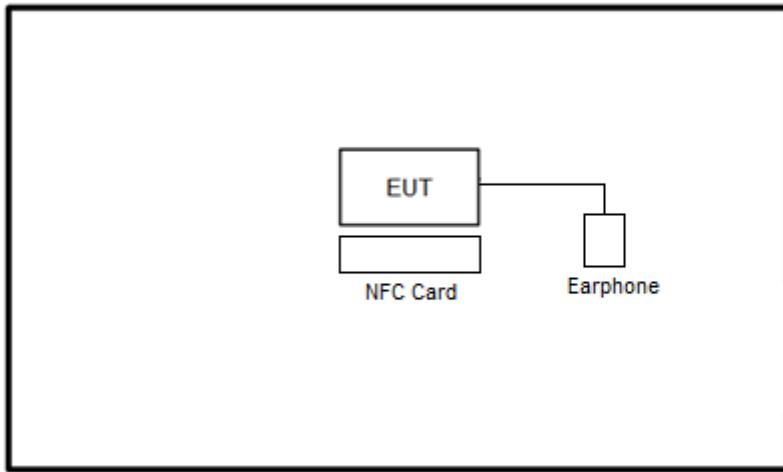
2.2 Connection Diagram of Test System

<AC Conducted Emission Mode>



<NFC Tx with Adapter Mode>



<NFC Tx with Earphone Mode>

2.3 Table for Supporting Units

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
2.	WLAN AP	ASUS	GT-AXE11000	FCC DoC	N/A	Unshielded, 1.8 m
3.	NFC Card	Metro Taipei	Easy Card	N/A	N/A	N/A
4.	NFC Card	Winso	N/A	N/A	N/A	N/A
5.	Wireless Earphone	N/A	G1007/G1008	A4RG1007/ A4RG1008	N/A	N/A
6.	AC Adapter	N/A	GW8L7	N/A	N/A	N/A
7.	Earphone	N/A	G019A	N/A	Unshielded, 1.1m	N/A

2.4 EUT Operation Test Setup

The EUT is programmed to be in continuously transmitting mode.

The ancillary equipment, NFC card, is used to make the EUT (NFC) continuously transmitting signal (Power Level: Default) at 13.56MHz.

The RF test items, utility “adb” is installed in Notebook which is programmed in order to make the EUT get into the engineering modes to provide channel selection, power level (Power setting: Default), data rate (Type F Bit Rate: 424kbps) and the application type and for continuous transmitting signals.



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 (dB μ V)	
	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.

For terminal test result, the testing follows FCC KDB 174176.

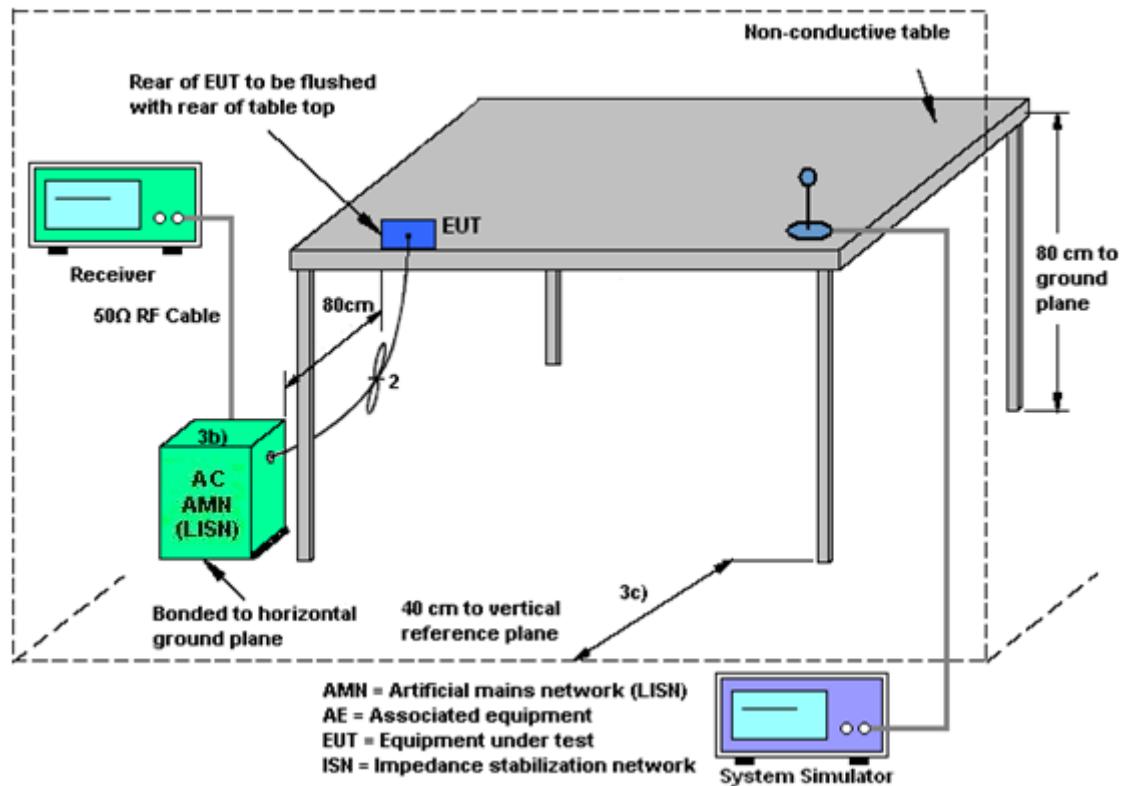
3.1.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.1.3 Test Procedures

1. The EUT is placed 0.4 meter away from the conducting wall of the shielding room, and is 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 shall be used.
6. Both Line and Neutral shall be tested in order to find out the maximum conducted emission.
7. The frequency range from 150 kHz to 30 MHz is scanned.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9 kHz) 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.

Note:

(1) with antenna

Remark: 13.560MHz is the NFC RF fundamental signal.

(2) with dummy load

Remark: Only the fundamental NFC signal needs to be retested.



3.2 20dB and 99% OBW Spectrum Bandwidth Measurement

3.2.1 Limit

Intentional radiators must be designed to ensure that the 20 dB and 99% emission bandwidth in the specific band 13.553~13.567 MHz.

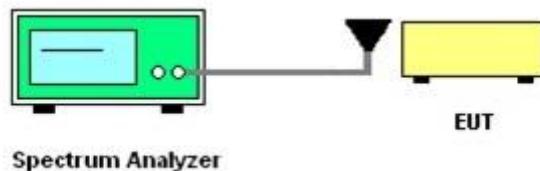
3.2.2 Measuring Instruments

Please refer to the measuring equipment list in 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 20 dB below carrier.
4. Measured the 99% OBW.

3.2.4 Test Setup



3.2.5 Test Result of Near Field Test Items

Please refer to Appendix B.

3.3 Frequency Stability Measurement

3.3.1 Limit

The frequency tolerance of the carrier signal shall be maintained within +/- 0.01% (100ppm) of the operating frequency over a temperature variation of -20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed by using a new battery.

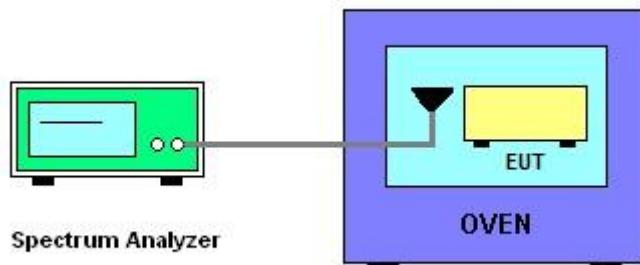
3.3.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.3.3 Test Procedures

1. The spectrum analyzer connected via a receive antenna placed near the EUT.
2. EUT has transmitted signal and fixed channelize.
3. Set the spectrum analyzer span to view the entire emissions bandwidth.
4. Set RBW = 1 kHz, VBW = 3 kHz with peak detector and maxhold settings.
5. The fc is declaring of channel frequency. Then the frequency error formula is $(fc-f)/fc \times 10^6$ ppm and the limit is less than +/-100ppm.
6. Extreme temperature rule is -20°C~50°C.

3.3.4 Test Setup



3.3.5 Test Result of Near Field Test Items

Please refer to Appendix B.



3.4 Field Strength of Fundamental Emissions and Mask Measurement

3.4.1 Limit

Rules and specifications		FCC CFR 47 Part 15 section 15.225			
Description	Compliance with the spectrum mask is tested with RBW set to 9kHz.				
Freq. of Emission (MHz)	Field Strength (μ V/m) at 30m	Field Strength (dB μ V/m) at 30m	Field Strength (dB μ V/m) at 10m	Field Strength (dB μ V/m) at 3m	
1.705~13.110	30	29.5	48.58	69.5	
13.110~13.410	106	40.5	59.58	80.5	
13.410~13.553	334	50.5	69.58	90.5	
13.553~13.567	15848	84.0	103.08	124.0	
13.567~13.710	334	50.5	69.58	90.5	
13.710~14.010	106	40.5	59.58	80.5	
14.010~30.000	30	29.5	48.58	69.5	

Remark:

1. The field strength test result is in 3m test distance, follow test rules the test data use distance extrapolation factor and reported in this report at 30m test result.
2. Distance extrapolation factor = $40 \log (\text{specific distance} / \text{test distance})$ (dB)

3.4.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

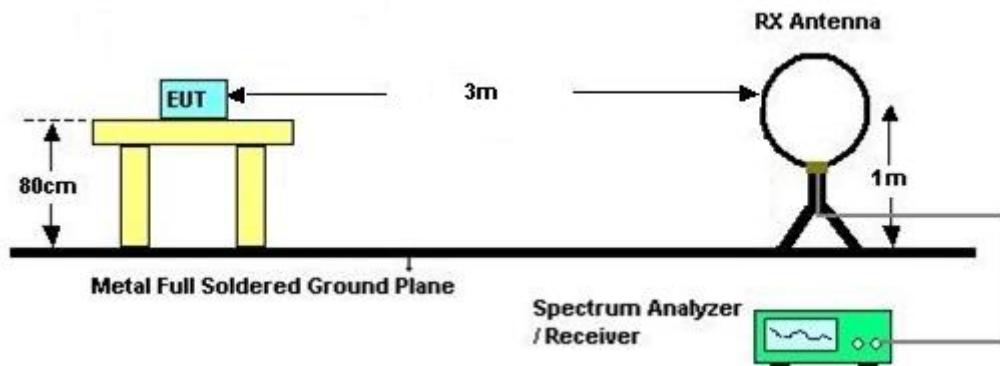
3.4.3 Test Procedures

1. Configure the EUT according to ANSI C63.10. The EUT is placed on the top of the turntable 0.8 meter above ground. The phase center of the loop receiving antenna mounted antenna tower is placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable is rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the receiving antenna is fixed at one meter above ground to find the maximum emissions field strength.
4. For Fundamental emissions, use the receiver to measure QP reading.
5. 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.
6. Compliance with the spectrum mask is tested with RBW set to 9 kHz.

Note: Emission level (dB μ V/m) = 20 log Emission level (μ V/m).

3.4.4 Test Setup

For radiated test below 30MHz



3.4.5 Test Result of Field Strength of Fundamental Emissions and Mask

Please refer to Appendix C.



3.5 Radiated Emissions Measurement

3.5.1 Limit

The field strength of any emissions which appear outside of 13.110 ~14.010MHz band shall not exceed the general radiated emissions limits.

Frequencies (MHz)	Field Strength (μ V/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

3.5.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.5.3 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.

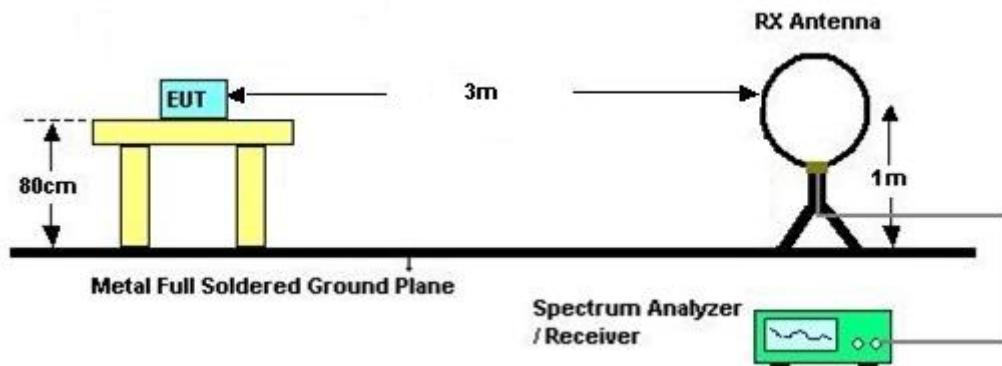


3.5.4 Test Procedures

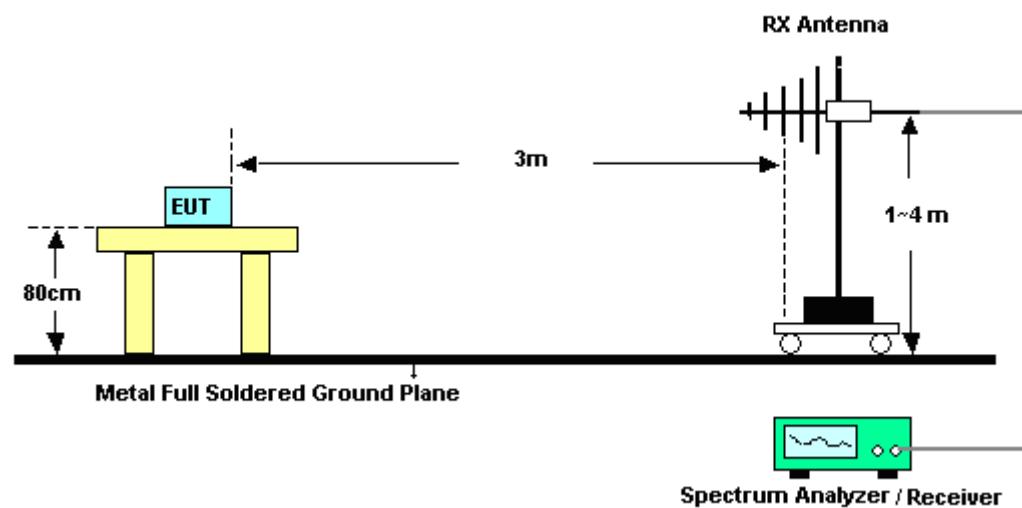
1. Configure the EUT according to ANSI C63.10. The EUT is placed on the top of the turntable 0.8 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower is placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable is rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna is 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 is scanned (from 1 M to 4 M) and then the turntable is 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 30 MHz, loop antenna has to be used for measurement and the recorded data shall be QP measured by receiver.
8. Radiated testing below 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading. When there is no suspected emission found and the emission level is with at least 6 dB margin against QP limit line, the position is marked as “-“.

3.5.5 Test Setup

For radiated test below 30MHz



For radiated test above 30MHz



3.5.6 Test Result of Radiated Emissions Measurement

Please refer to Appendix C.

Remark:

1. There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.
2. According to C63.10 radiated test, the EUT pre-scanned horizontal, vertical, and ground-parallel three polarization's, the worst case is horizontal & vertical polarization, test data of two modes was reported.



3.6 Antenna Requirements

3.6.1 Standard Applicable

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 a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§ 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

3.6.2 Antenna Anti-Replacement Construction

- b) Unique (non-standard) antenna connector.
- (3) Use of a standard connector is also allowed if the connector is within the transmitter enclosure and can only be accessed by disassembly of the transmitter, where such disassembly is not normally required. The user manual must not show that user has access to the connector.



4. List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Test Receiver	Rohde & Schwarz	ESU26	100472	20Hz~26.5GHz	Feb. 01, 2024	Jul. 26, 2024	Jan. 31, 2025	Radiation (03CH07-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N-06	35419 & 03	30MHz~1GHz	Apr. 22, 2024	Jul. 26, 2024	Apr. 21, 2025	Radiation (03CH07-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Feb. 23, 2024	Jul. 26, 2024	Feb. 22, 2025	Radiation (03CH07-HY)
Preamplifier	COM-POWER	PA-103A	161241	10MHz~1GHz	Oct. 02, 2023	Jul. 26, 2024	Oct. 01, 2024	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655/4 MY24971/4 MY15682/4	30MHz to 18GHz	Feb. 21, 2024	Jul. 26, 2024	Feb. 20, 2025	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655/4 MY24971/4	9kHz to 30MHz	Feb. 21, 2024	Jul. 26, 2024	Feb. 20, 2025	Radiation (03CH07-HY)
Controller	EMEC	EM1000	N/A	Control Ant Mast	N/A	Jul. 26, 2024	N/A	Radiation (03CH07-HY)
Controller	MF	MF-7802	N/A	Control Turn table	N/A	Jul. 26, 2024	N/A	Radiation (03CH07-HY)
Antenna Mast	EMEC	AM-BS-4500E	N/A	Boresight mast 1M~4M	N/A	Jul. 26, 2024	N/A	Radiation (03CH07-HY)
Turn Table	ChainTek	Chaintek 3000	N/A	0~360 Degree	N/A	Jul. 26, 2024	N/A	Radiation (03CH07-HY)
Software	Audix	E3	N/A	N/A	N/A	Jul. 26, 2024	N/A	Radiation (03CH07-HY)
USB Data Logger	TECPEL	TR-32	HE17XB2495	N/A	Mar. 01, 2024	Jul. 26, 2024	Feb. 28, 2025	Radiation (03CH07-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Aug. 07, 2024	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Dec. 06, 2023	Aug. 07, 2024	Dec. 05, 2024	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Oct. 26, 2023	Aug. 07, 2024	Oct. 25, 2024	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 22, 2023	Aug. 07, 2024	Nov. 21, 2024	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32	N/A	N/A	N/A	Aug. 07, 2024	N/A	Conduction (CO05-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-F N	00691	N/A	Jul. 30, 2024	Aug. 07, 2024	Jul. 29, 2025	Conduction (CO05-HY)
LISN Cable	MVE	RG-400	260260	N/A	Dec. 28, 2023	Aug. 07, 2024	Dec. 27, 2024	Conduction (CO05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP30	101329	9kHz~30GHz	Sep. 20, 2023	Jul. 04, 2024	Sep. 19, 2024	Near Field (TH03-HY)
Temperature & Humidity Cabinet	ESPEC	LHU-113	1012005860	-20°C ~85°C	Dec. 13, 2023	Jul. 04, 2024	Dec. 12, 2024	Near Field (TH03-HY)
Programmable Power Supply	GW Instek	PSS-2005	EL890001	1V~20V 0.5A~4A	Sep. 12, 2023	Jul. 04, 2024	Sep. 11, 2024	Near Field (TH03-HY)
Hygrometer	TECPEL	DTM-303B	TP200886	N/A	Mar. 14, 2024	Jul. 04, 2024	Mar. 13, 2025	Near Field (TH03-HY)



5. Measurement Uncertainty

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_{C(y)}$)	3.5 dB
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Uncertainty of Radiated Emission Measurement (9 kHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_{C(y)}$)	3.8 dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_{C(y)}$)	6.3 dB
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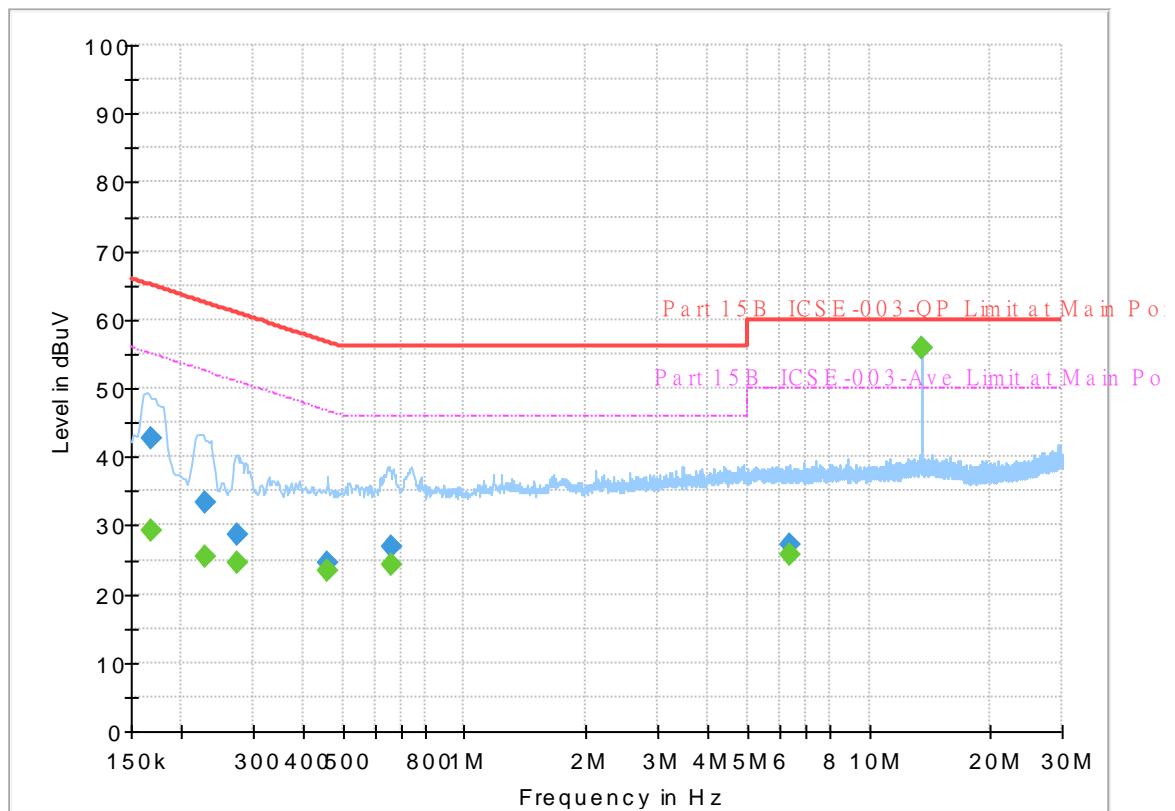
Appendix A. Test Results of Conducted Emission Test

<Original>

EUT Information

Test Mode : Mode 1
 Test Voltage : 120Vac/60Hz
 Phase : Line

Full Spectrum



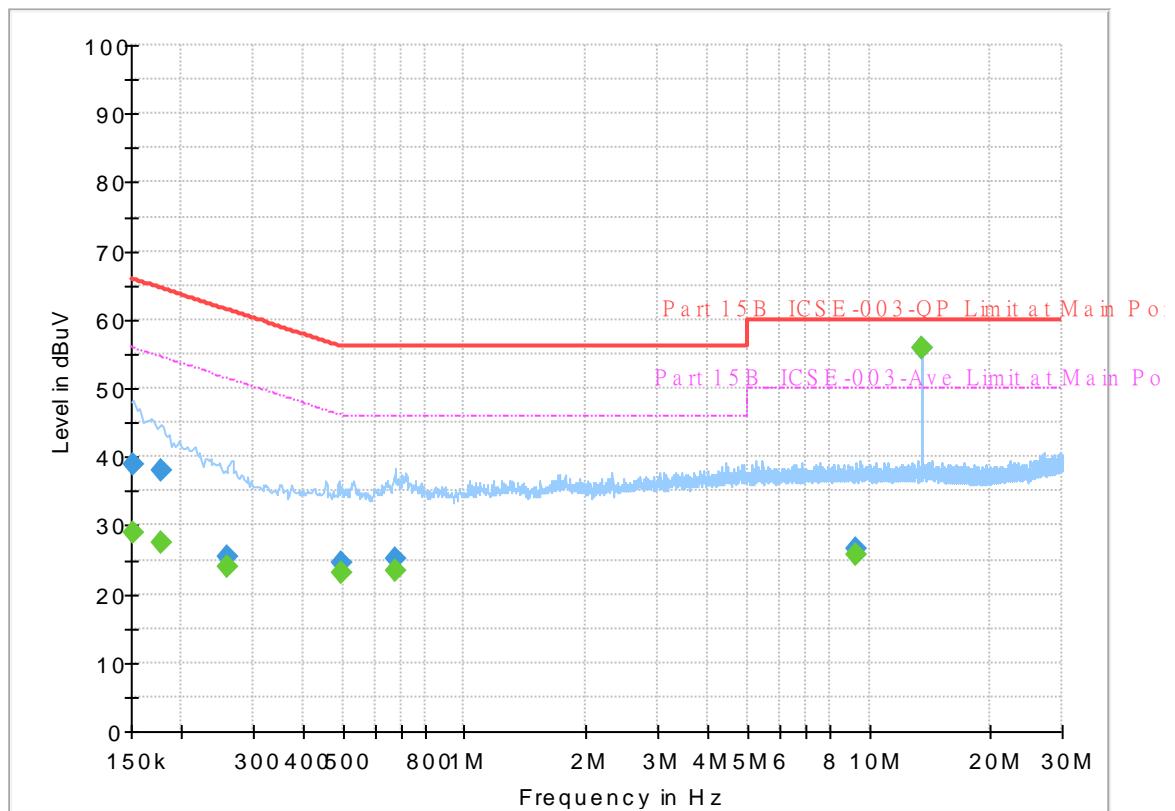
Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.168000	---	29.19	55.06	25.87	L1	OFF	19.8
0.168000	42.63	---	65.06	22.43	L1	OFF	19.8
0.228750	---	25.39	52.50	27.11	L1	OFF	19.8
0.228750	33.39	---	62.50	29.11	L1	OFF	19.8
0.273750	---	24.63	51.00	26.37	L1	OFF	19.8
0.273750	28.56	---	61.00	32.44	L1	OFF	19.8
0.458250	---	23.30	46.72	23.42	L1	OFF	19.8
0.458250	24.64	---	56.72	32.08	L1	OFF	19.8
0.656250	---	24.21	46.00	21.79	L1	OFF	19.8
0.656250	26.86	---	56.00	29.14	L1	OFF	19.8
6.353250	---	25.75	50.00	24.25	L1	OFF	20.1
6.353250	27.09	---	60.00	32.91	L1	OFF	20.1
13.560000	---	55.74	50.00	-5.74	L1	OFF	20.5
13.560000	55.70	---	60.00	4.30	L1	OFF	20.5

EUT Information

Test Mode : Mode 1
 Test Voltage : 120Vac/60Hz
 Phase : Neutral

Full Spectrum



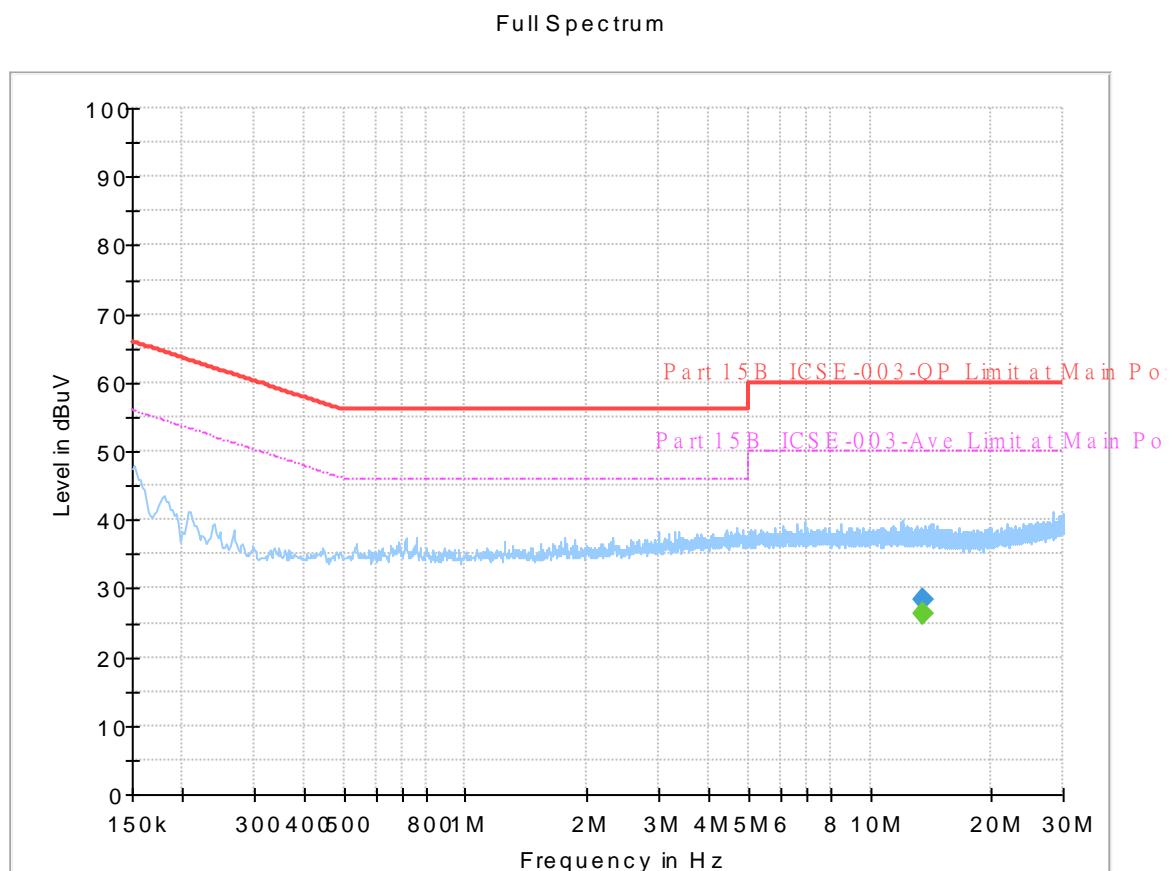
Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	29.07	55.88	26.81	N	OFF	19.8
0.152250	38.99	---	65.88	26.89	N	OFF	19.8
0.177000	---	27.54	54.63	27.09	N	OFF	19.8
0.177000	38.14	---	64.63	26.49	N	OFF	19.8
0.260250	---	24.06	51.42	27.36	N	OFF	19.8
0.260250	25.35	---	61.42	36.07	N	OFF	19.8
0.496500	---	23.12	46.06	22.94	N	OFF	19.8
0.496500	24.66	---	56.06	31.40	N	OFF	19.8
0.672000	---	23.39	46.00	22.61	N	OFF	19.8
0.672000	25.04	---	56.00	30.96	N	OFF	19.8
9.231000	---	25.60	50.00	24.40	N	OFF	20.3
9.231000	26.69	---	60.00	33.31	N	OFF	20.3
13.560000	---	55.78	50.00	-5.78	N	OFF	20.5
13.560000	55.74	---	60.00	4.26	N	OFF	20.5

<Terminal>

EUT Information

Test Mode : Mode 1
 Test Voltage : 120Vac/60Hz
 Phase : Line

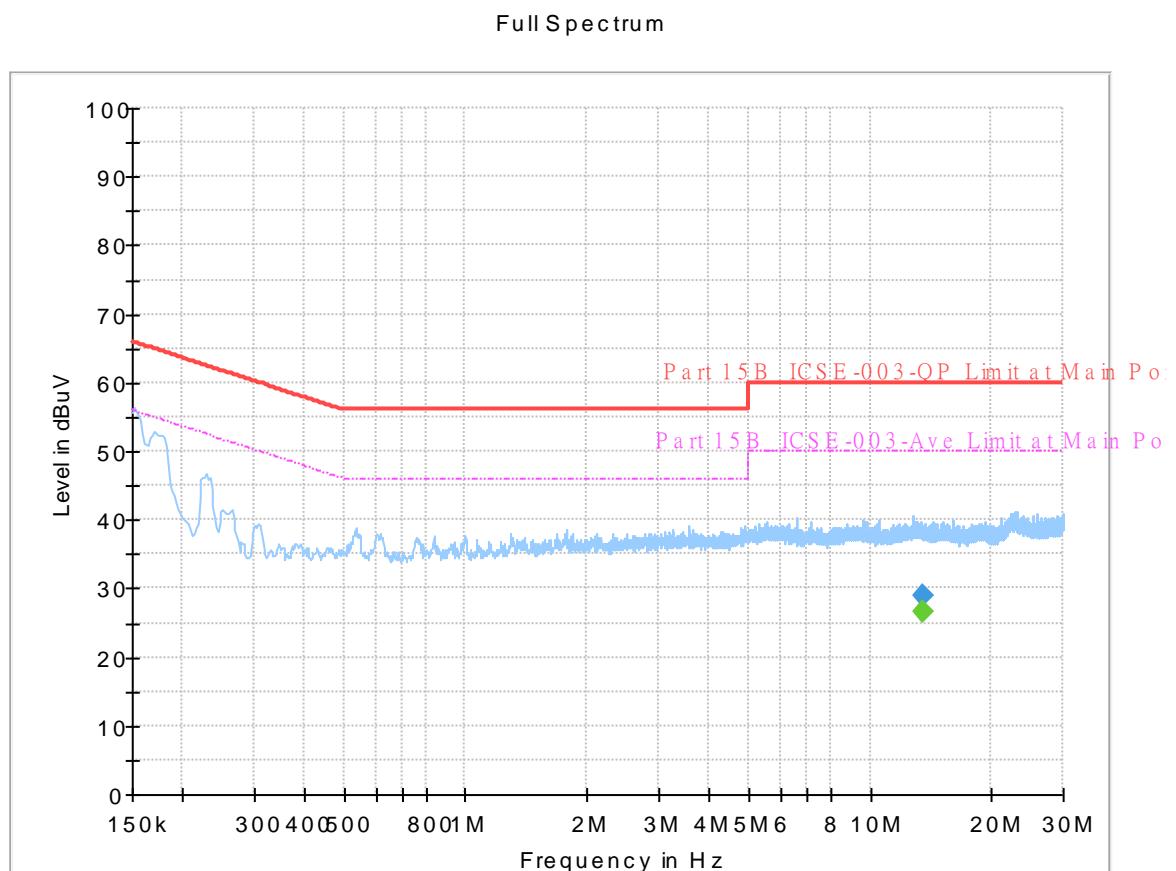


Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
13.560000	---	26.43	50.00	23.57	L1	OFF	20.5
13.560000	28.36	---	60.00	31.64	L1	OFF	20.5

EUT Information

Test Mode : Mode 1
 Test Voltage : 120Vac/60Hz
 Phase : Neutral

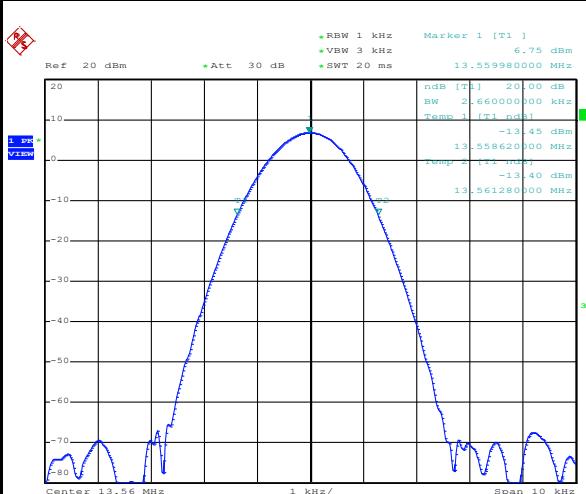
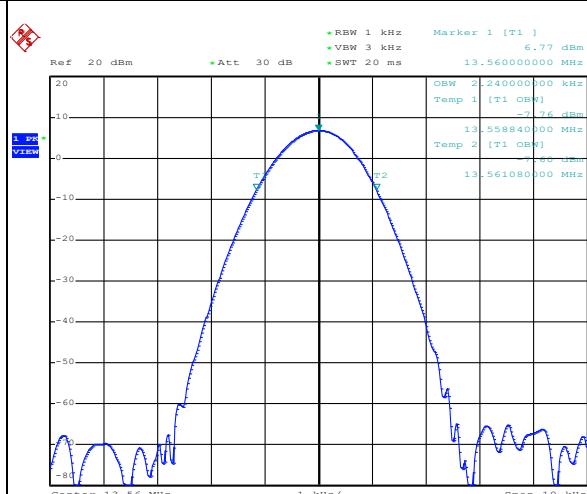


Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
13.560000	---	26.70	50.00	23.30	N	OFF	20.5
13.560000	28.88	---	60.00	31.12	N	OFF	20.5

Appendix B. Test Results of Near Field Test Items

B1. Test Result of 20dB Spectrum Bandwidth

Test mode	NFC Tx	Test Frequency (MHz)	13.56
			
20dB Bandwidth (kHz)	2.660	99% OccupiedBW(kHz)	2.240
Frequency range (MHz)	$f_L > 13.553$	13.55862	Test Result
	$f_H < 13.567$	13.56128	Complies

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.

**B2. Test Result of Frequency Stability**

Voltage vs. Frequency Stability		Temperature vs. Frequency Stability		
Voltage (Vdc)	Measurement Frequency (MHz)	Temperature (°C)	Time (min)	Measurement Frequency (MHz)
3.9	13.559950	-20	0	13.560020
3.6	13.559960		2	13.560020
4.5	13.559960		5	13.560020
			10	13.560020
		-10	0	13.560020
			2	13.560030
			5	13.560030
			10	13.560030
		0	0	13.560030
			2	13.560030
			5	13.560030
			10	13.560020
		10	0	13.560020
			2	13.560020
			5	13.560020
			10	13.560020
		20	0	13.560000
			2	13.560000
			5	13.560000
			10	13.560000
		30	0	13.559980
			2	13.559980
			5	13.559980
			10	13.559980
		40	0	13.559960
			2	13.559950
			5	13.559940
			10	13.559940

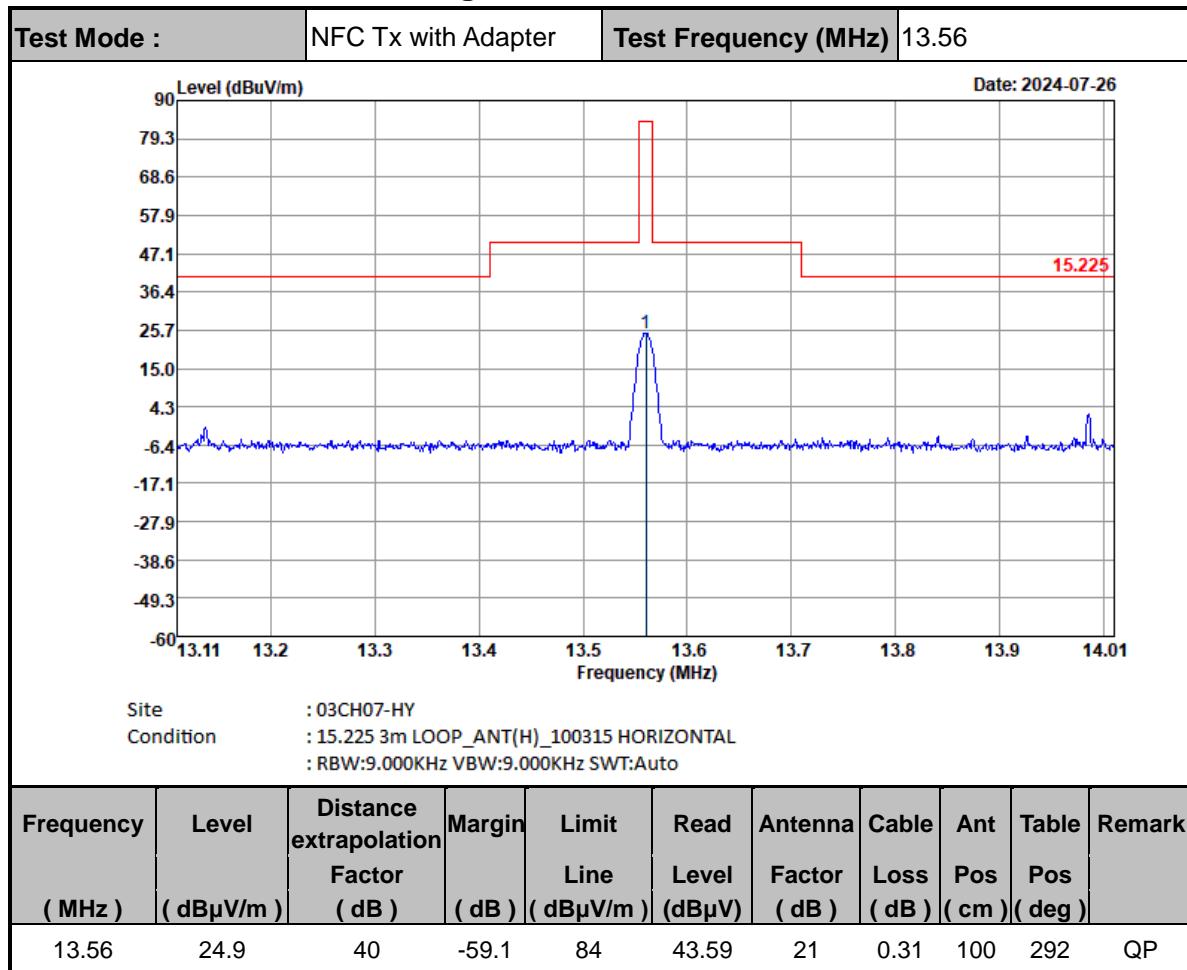


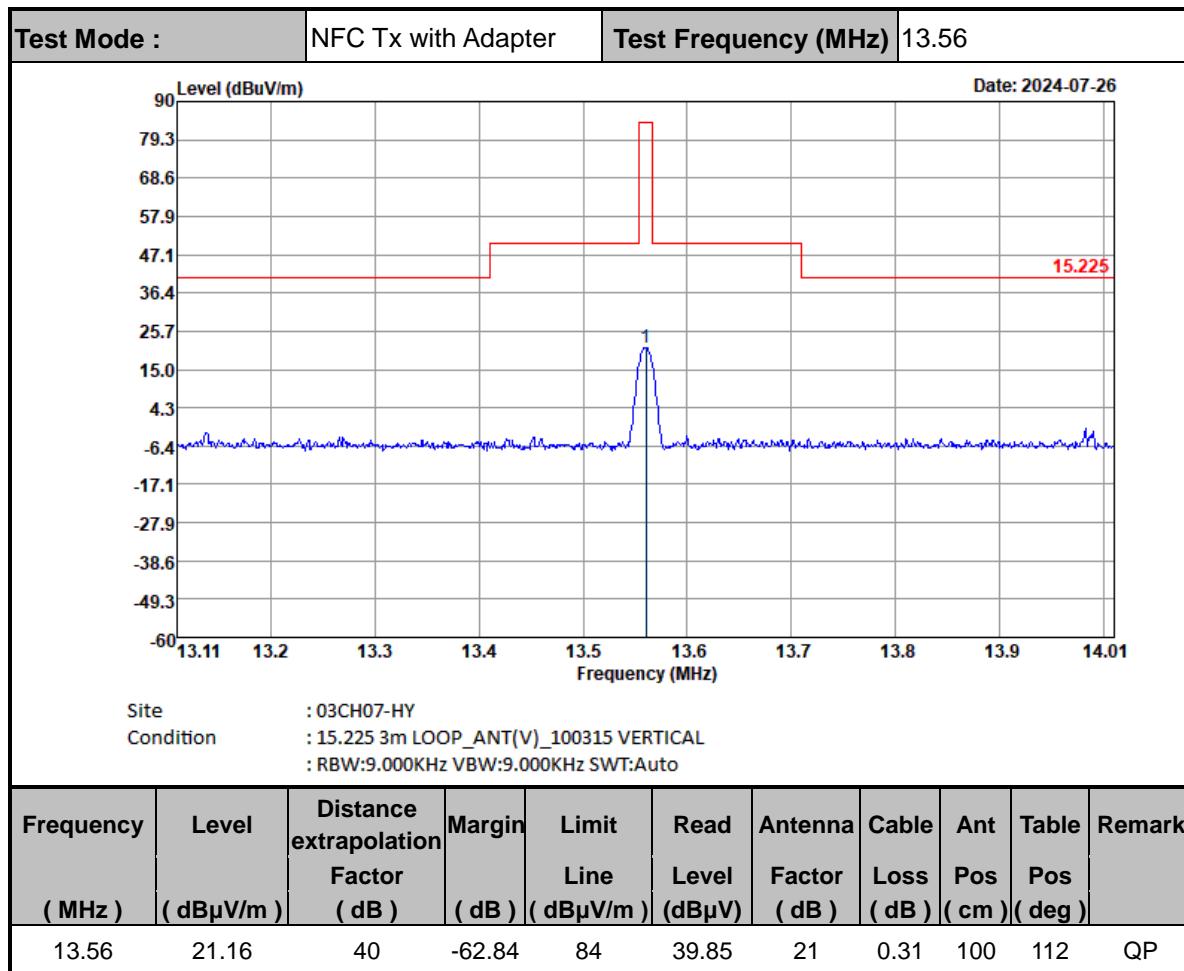
Voltage vs. Frequency Stability		Temperature vs. Frequency Stability		
Voltage (Vdc)	Measurement Frequency (MHz)	Temperature (°C)	Time (min)	Measurement Frequency (MHz)
		50	0	13.559940
			2	13.559930
			5	13.559940
			10	13.559940
Max.Deviation (MHz)	-0.000050	Max.Deviation (MHz)		-0.000070
Max.Deviation (ppm)	-3.6873	Max.Deviation (ppm)		-5.1622
Limit	FS < ±100 ppm	Limit		FS < ±100 ppm
Test Result	PASS	Test Result		PASS



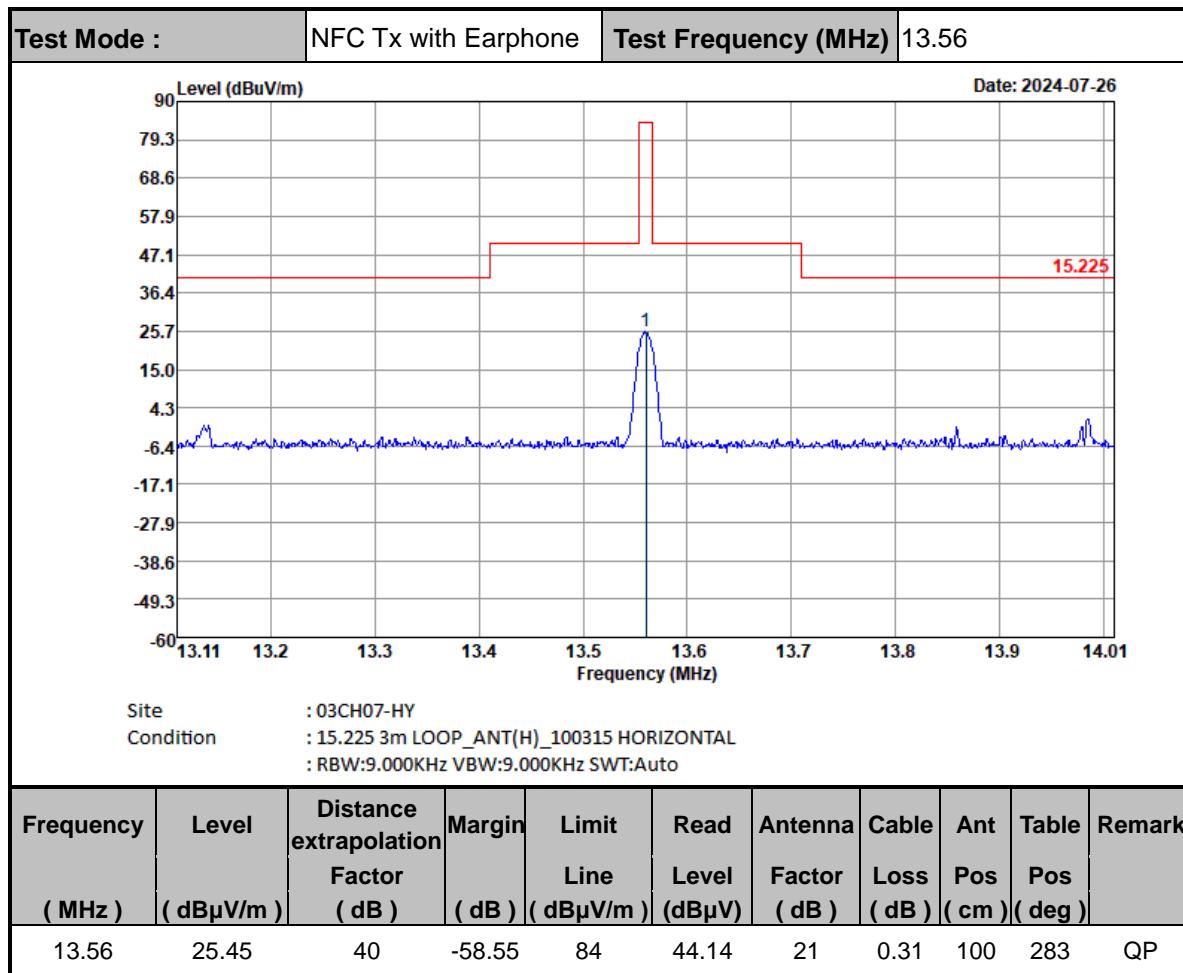
Appendix C. Test Results of Radiated Test Items

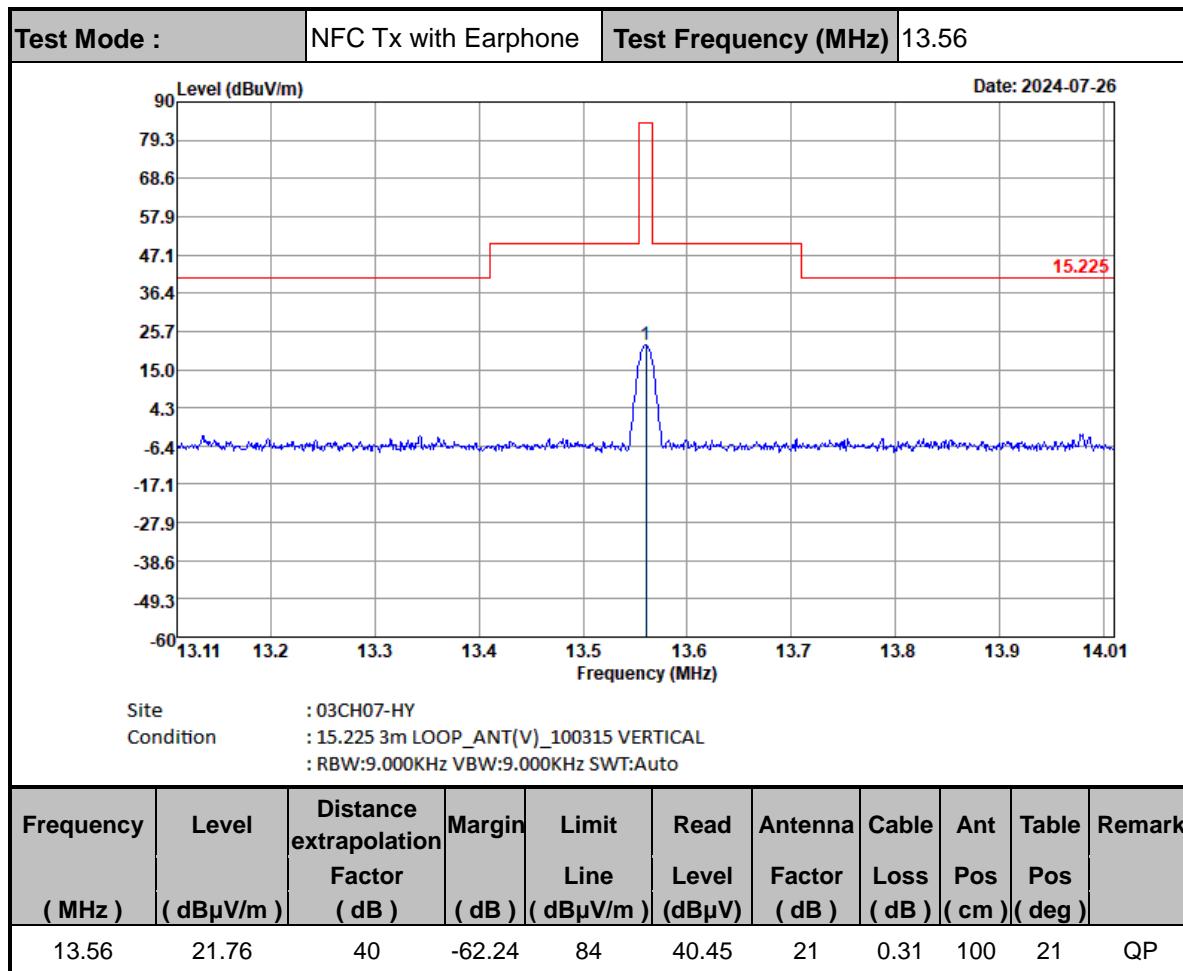
C1. Test Result of Field Strength of Fundamental Emissions



**Note :**

1. Distance extrapolation factor = $40 \log(\text{specific distance} / \text{test distance})$ (dB)
2. Level = Antenna Factor + Cable Loss + Read Level - Distance extrapolation factor.



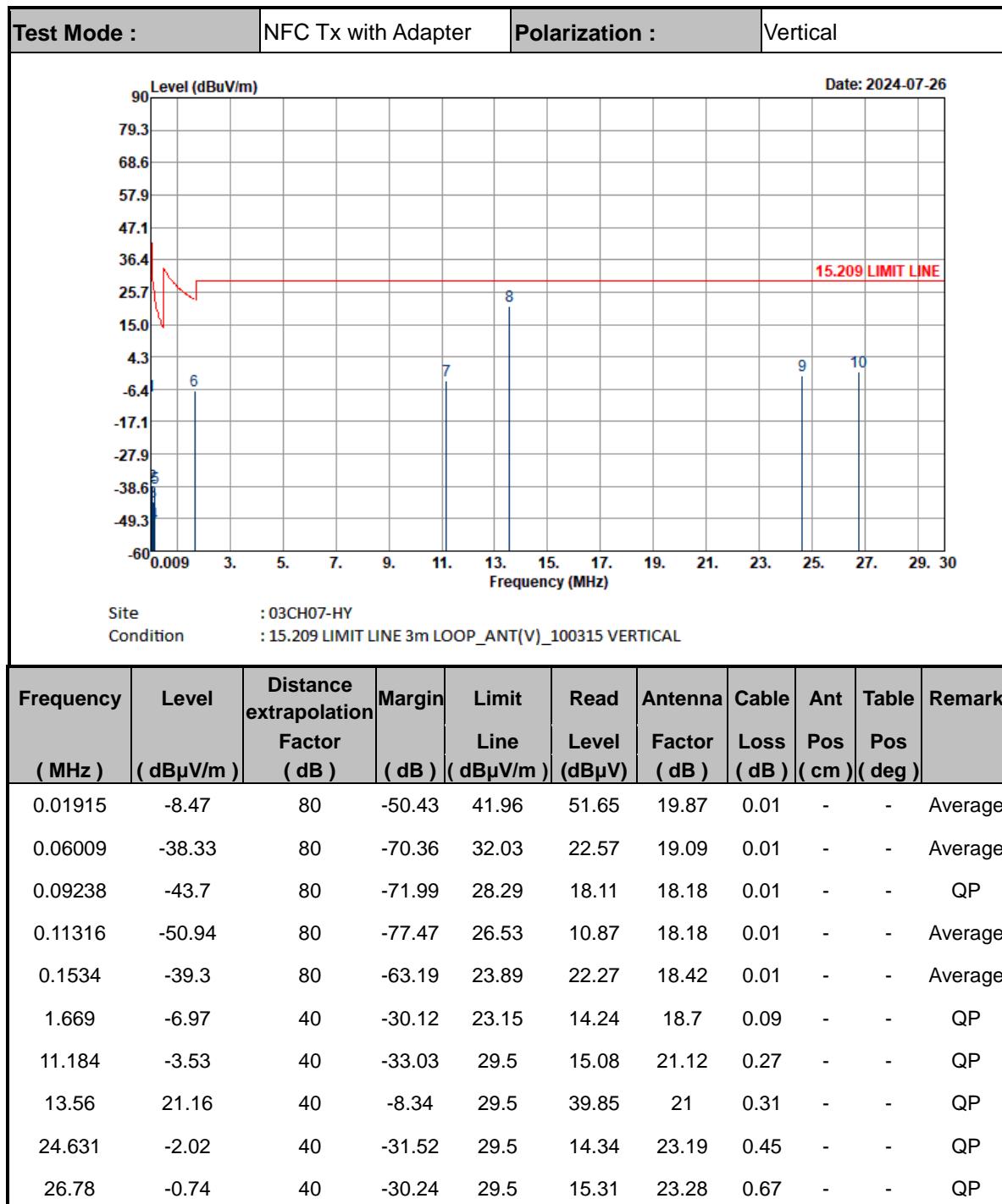
**Note :**

1. Distance extrapolation factor = $40 \log(\text{specific distance} / \text{test distance})$ (dB)
2. Level = Antenna Factor + Cable Loss + Read Level - Distance extrapolation factor.



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

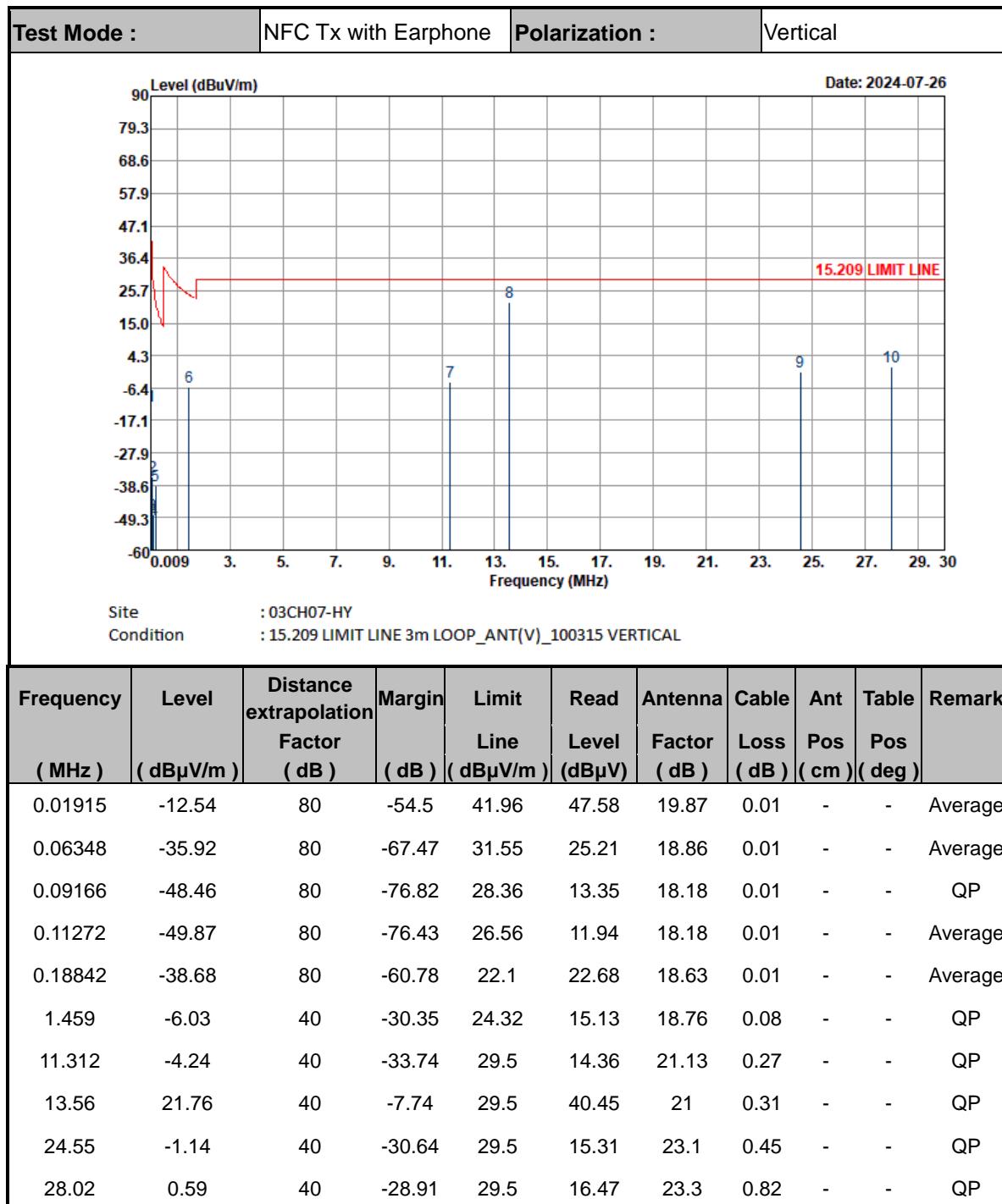
Test Mode :		NFC Tx with Adapter		Polarization :		Horizontal							
Level (dB μ V/m)									Date: 2024-07-26				
Site : 03CH07-HY Condition : 15.209 LIMIT LINE 3m LOOP_ANT(H)_100315 HORIZONTAL													
Frequency (MHz)	Level (dB μ V/m)	Distance extrapolation Factor (dB)	Margin (dB)	Limit Line (dB μ V/m)	Read Level (dB μ V)	Antenna Factor (dB)	Cable Loss (dB)	Ant Pos (cm)	Table Pos (deg)	Remark			
0.0192	-8.81	80	-50.75	41.94	51.3	19.88	0.01	-	-	Average			
0.06198	-36.3	80	-68.06	31.76	24.73	18.96	0.01	-	-	Average			
0.09224	-43.82	80	-72.13	28.31	17.99	18.18	0.01	-	-	QP			
0.11336	-49.71	80	-76.23	26.52	12.1	18.18	0.01	-	-	Average			
0.46212	-36.26	80	-50.57	14.31	25.11	18.6	0.03	-	-	Average			
1.699	-6.78	40	-29.78	23	14.44	18.69	0.09	-	-	QP			
10.912	-3.18	40	-32.68	29.5	15.48	21.07	0.27	-	-	QP			
13.56	24.9	40	-4.6	29.5	43.59	21	0.31	-	-	QP			
24.523	-1.82	40	-31.32	29.5	14.65	23.08	0.45	-	-	QP			
28.495	-0.68	40	-30.18	29.5	15.19	23.25	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 = $40 \log (\text{specific distance} / \text{test distance})$ (dB)
3. Level = Antenna Factor + Cable Loss + Read Level - Distance extrapolation factor.
4. 13.56 MHz is fundamental signal which can be ignored

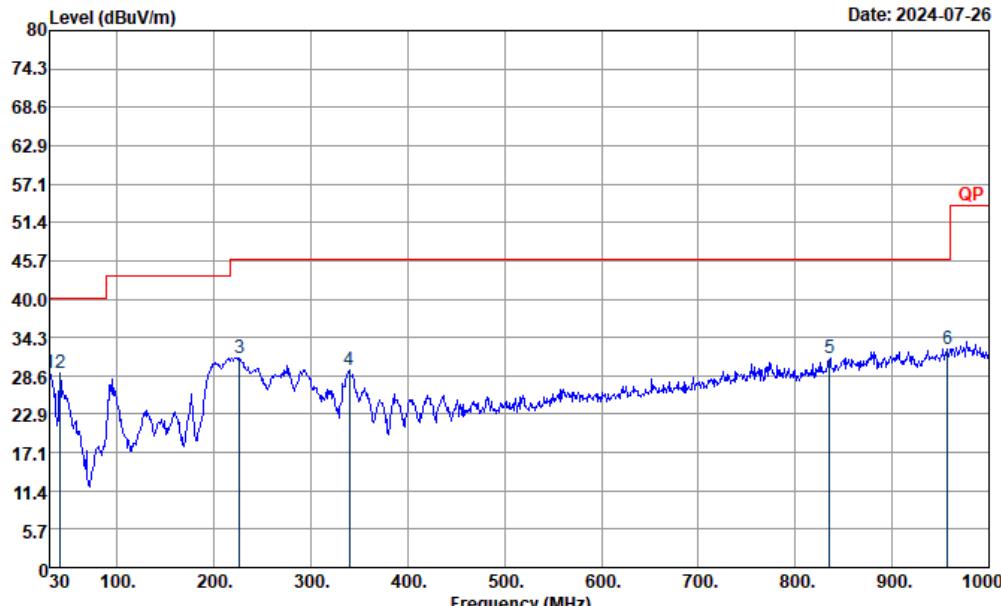


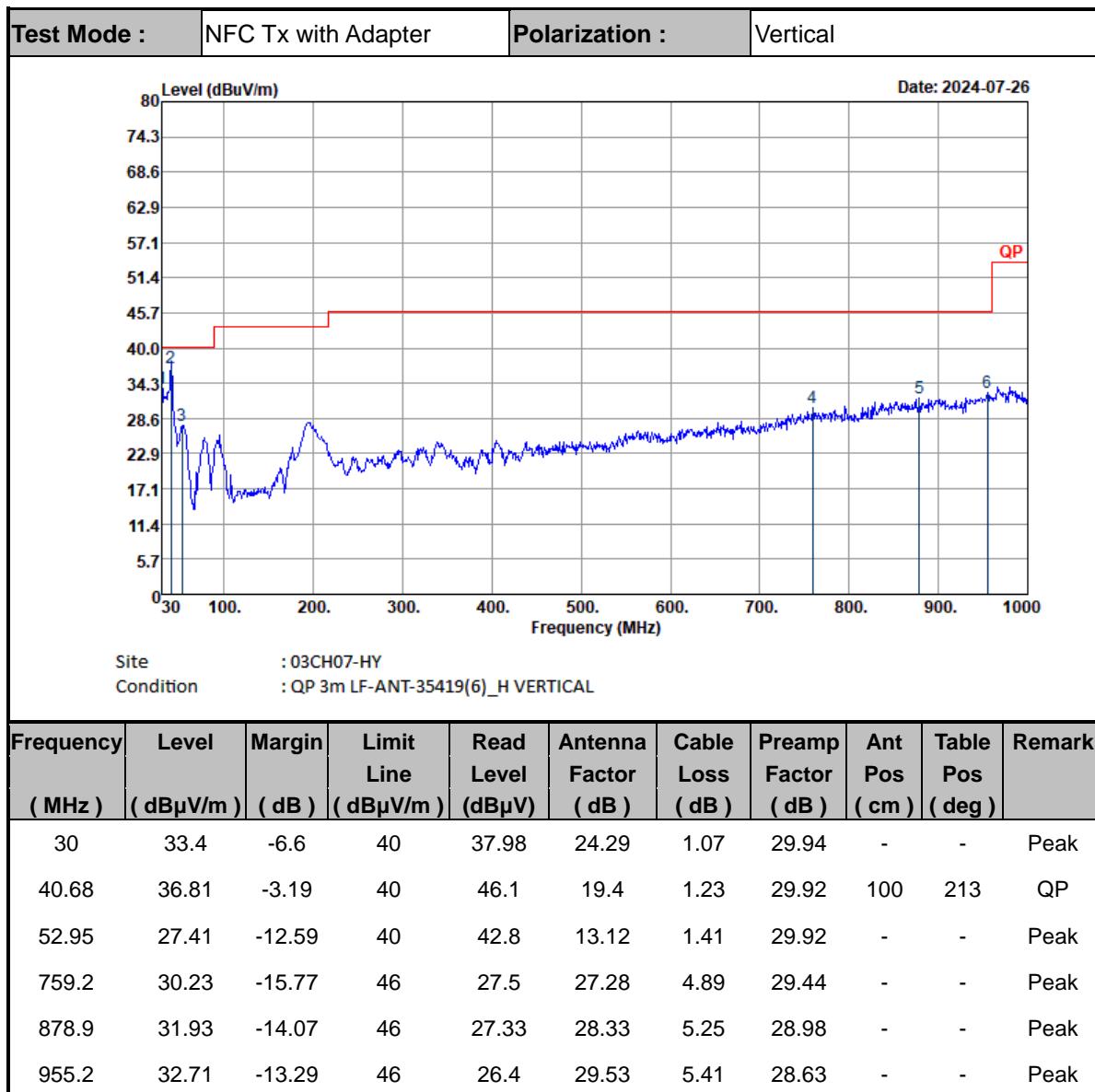
Test Mode :		NFC Tx with Earphone		Polarization :		Horizontal							
									Date: 2024-07-26				
Site : 03CH07-HY Condition : 15.209 LIMIT LINE 3m LOOP_ANT(H)_100315 HORIZONTAL													
Frequency (MHz)	Level (dB μ V/m)	Distance extrapolation Factor (dB)	Margin (dB)	Limit Line (dB μ V/m)	Read Level (dB μ V)	Antenna Factor (dB)	Cable Loss (dB)	Ant Pos (cm)	Table Pos (deg)	Remark			
0.01915	-12.98	80	-54.94	41.96	47.14	19.87	0.01	-	-	Average			
0.06006	-38.89	80	-70.92	32.03	22	19.1	0.01	-	-	Average			
0.09238	-47.34	80	-75.63	28.29	14.47	18.18	0.01	-	-	QP			
0.11336	-48.05	80	-74.57	26.52	13.76	18.18	0.01	-	-	Average			
0.26628	-35.67	80	-54.77	19.1	25.68	18.63	0.02	-	-	Average			
1.699	-6.2	40	-29.2	23	15.02	18.69	0.09	-	-	QP			
9.296	-3.02	40	-32.52	29.5	16.29	20.45	0.24	-	-	QP			
13.56	25.45	40	-4.05	29.5	44.14	21	0.31	-	-	QP			
19.213	-1.88	40	-31.38	29.5	15.31	22.42	0.39	-	-	QP			
29.895	0.05	40	-29.45	29.5	16.15	22.84	1.06	-	-	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 = $40 \log (\text{specific distance} / \text{test distance})$ (dB)
3. Level = Antenna Factor + Cable Loss + Read Level - Distance extrapolation factor.
4. 13.56 MHz is fundamental signal which can be ignored

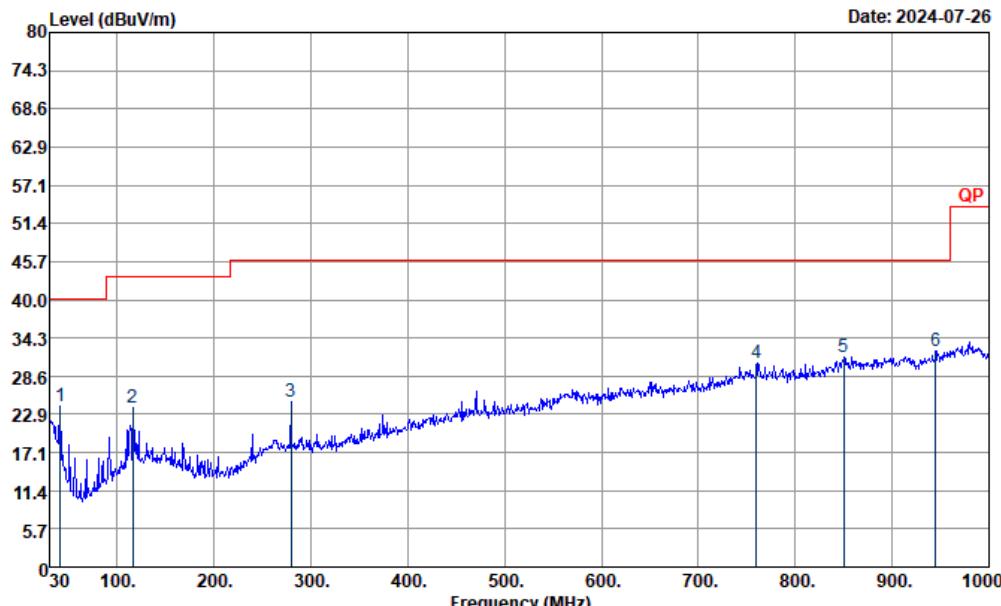
C3. Results of Radiated Spurious Emissions (30MHz~1GHz)

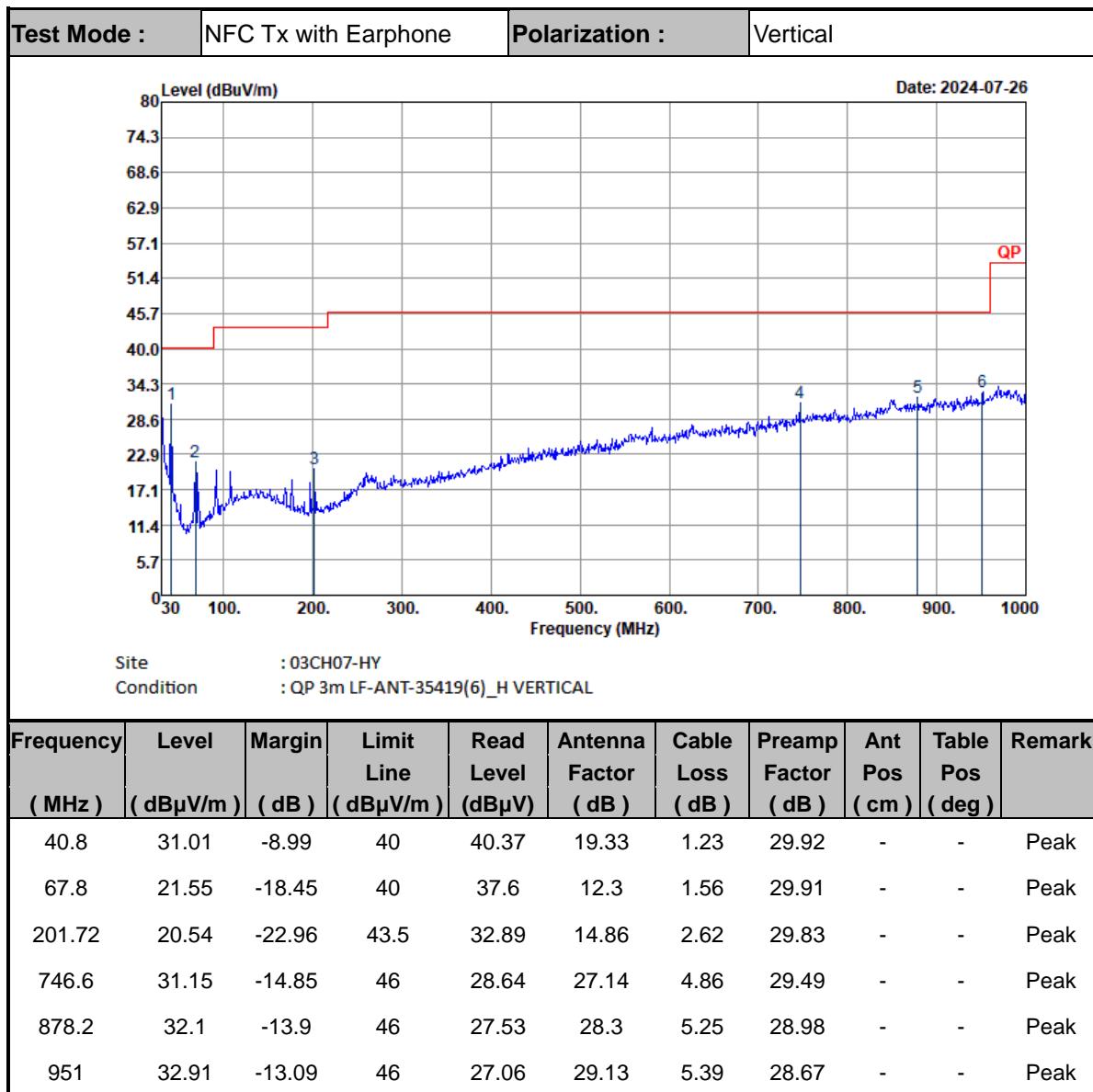
Test Mode :	NFC Tx with Adapter	Polarization :	Horizontal							
			Date: 2024-07-26							
Site : 03CH07-HY Condition : QP 3m LF-ANT-35419(6)_H HORIZONTAL										
Frequency (MHz)	Level (dB μ V/m)	Margin (dB)	Limit Line (dB μ V/m)	Read Level (dB μ V)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
30	28.98	-11.02	40	33.56	24.29	1.07	29.94	-	-	Peak
40.8	28.93	-11.07	40	38.29	19.33	1.23	29.92	-	-	Peak
226.02	31.27	-14.73	46	42.64	15.68	2.77	29.82	-	-	Peak
339.2	29.32	-16.68	46	35.92	19.88	3.32	29.8	-	-	Peak
835.5	31.16	-14.84	46	27.22	27.98	5.16	29.2	-	-	Peak
957.3	32.59	-13.41	46	26.1	29.68	5.42	28.61	-	-	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 (dB μ V/m) = 20 log Emission level (μ V/m).
3. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor= Level.
4. The emission position marked as “-” means no suspected emission found and emission level has at least 6dB margin against limit or emission is noise floor only.



Test Mode :		NFC Tx with Earphone		Polarization :		Horizontal								
Level (dB μ V/m)									Date: 2024-07-26					
														
Site : 03CH07-HY Condition : QP 3m LF-ANT-35419(6)_H HORIZONTAL														
Frequency (MHz)	Level (dB μ V/m)	Margin (dB)	Limit Line (dB μ V/m)	Read Level (dB μ V)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark				
40.8	23.97	-16.03	40	33.33	19.33	1.23	29.92	-	-	Peak				
115.59	23.9	-19.6	43.5	34.71	17.05	2.02	29.88	-	-	Peak				
279.21	24.76	-21.24	46	32.84	18.67	3.06	29.81	-	-	Peak				
759.9	30.53	-15.47	46	27.83	27.24	4.9	29.44	-	-	Peak				
850.2	31.42	-14.58	46	26.98	28.38	5.23	29.17	-	-	Peak				
944.7	32.35	-13.65	46	26.45	29.22	5.38	28.7	-	-	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 (dB μ V/m) = 20 log Emission level (μ V/m).
3. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor= Level.
4. The emission position marked as “-” means no suspected emission found and emission level has at least 6dB margin against limit or emission is noise floor only.



Appendix E. Spot Check Evaluation on GTF7P, G3Y12

Conducted power test and radiated spurious emission test configurations were selected from the worst cases identified in the reference model and tested to demonstrate the test data from reference model remains representative for the variant model.

The deviation between the spot check and the referenced values is within 3dB, therefore data referencing is justified according to the guidance in the ECR inquiry

Test Item	Mode	A4RGXQ96 Reference Worst Result	A4RGTF7P Variant Check Result	Difference (dB)
Conducted Power (dBm)	WWAN GPRS 850 Class 8 CH128	32.60	32.32	0.28
	WWAN GPRS 1900 Class 8 CH512	29.28	29.21	0.07
	WWAN WCDMA Band V RMC 12.2K CH4182	24.77	24.62	0.15
	WWAN LTE Band 5 10MHz 1RB0 QPSK Mid	24.72	24.71	0.01
	WWAN LTE Band 7 20MHz 1RB0 QPSK Mid	24.45	24.33	0.12
	WWAN LTE Band 12 10MHz 1RB0 QPSK Mid	24.66	24.66	0.00
	WWAN LTE Band 26 (90S) 5MHz 1RB0 QPSK High	24.70	24.65	0.05
	WWAN LTE Band 41 HPUE 15MHz 1RB37 QPSK Mid	26.43	26.36	0.07
	WWAN NR n5 10MHz 1RB1 QPSK Low	25.18	25.02	0.16
	WWAN NR n7 25MHz 1RB1 QPSK High	24.83	24.58	0.25
	WWAN NR n12 15MHz 36RB18 BPSK Low	24.88	24.84	0.04
	WWAN NR n26 5MHz 1RB23 QPSK Low	25.19	24.92	0.27
	WWAN NR n41 HPUE 100MHz 1RB1 QPSK Low	27.15	26.96	0.19
	WWAN NR n77 HPUE 50MHz 1RB1 QPSK Low	27.20	26.93	0.27

Test Item	Mode	ANT	A4RGXQ96 Reference Worst Result	A4RGTF7P Variant Check Result	Difference (dB)
Conducted Power (dBm)	BT (BR 1Mbps CH39)	4	20.69	20.59	0.10
	BLE / BT EDR (BLE 2Mbps CH19)	4	20.20	20.16	0.04
	BLE CS GFSK_DTS (2Mbps CH38)	4	20.50	20.30	0.20
	BLE CS ASK_FHSS (2Mbps CH38)	4	20.29	20.12	0.17
	WiFi 2.4GHz (HE20 CH06 Full RU)	4+3	23.98	23.85	0.13
	WiFi 5GHz (11a CH169)	4+3	22.55	22.29	0.26
	WiFi 6GHz (11a CH049)	4+3	21.69	21.60	0.09



Test Item	Mode	ANT	A4RGXQ96 Reference Worst Result	A4RGTF7P Variant Check Result	Difference (dB)
Field Strength (dBuV/m)	NFC 13.56MHz	-	25.45	23.86	1.59
Radiated Spurious Emission (dBuV/m)	NFC 13.56MHz	-	-3.19	-3.27	0.08
Radiated Spurious Emission (dBm)	WWAN GSM 850 CH189	0	-18.90	-21.23	2.33
	WWAN GSM 1900 CH512	2	-20.77	-22.79	2.02
	WWAN WCDMA Band V CH4132	0	-41.92	-43.94	2.02
	WWAN LTE Band 26 10MHz 1RB0 QPSK High	0	-32.45	-32.71	0.26
	WWAN LTE Band 7 10MHz 1RB0 QPSK High	0	-21.91	-23.47	1.56
	WWAN LTE Band 12 10MHz 1RB0 QPSK Low	1	-32.20	-33.22	1.02
	WWAN LTE Band 26 (90S) 15MHz 1RB0 QPSK Mid	0	-20.42	-22.30	1.88
	WWAN LTE Band 41 HPUE 10MHz 1RB0 QPSK Low	0	-10.25	-11.23	0.98
	WWAN NR n26 20MHz 1RB1 BPSK High	1	-29.65	-31.05	1.40
	WWAN NR n7 20MHz 1RB1 BPSK Low	0	-21.64	-21.87	0.23
	WWAN NR n12 10MHz 1RB1 BPSK Low	1	-35.23	-36.03	0.80
	WWAN NR n26 (90S) 15MHz 1RB1 BPSK Mid	1	-31.65	-33.29	1.64
	WWAN NR n41 20MHz 1RB1 BPSK Mid	2	-12.22	-14.37	2.15
	WWAN NR n77 HPUE (27Q) 20MHz 1RB1 BPSK Low	6	-20.74	-22.69	1.95
		2	-37.09	-39.98	2.89

Test Item	Mode	ANT	A4RGXQ96 Reference Worst Result	A4RGTF7P Variant Check Result	Difference (dB)
Radiated Spurious Emission (dBuV/m)	BT (BR 1Mbps CH78)	4	-16.58	-19.44	2.86
	BLE / BT EDR (BLE 1Mbps CH39)	4	-4.11	-6.08	1.97
	BLE CS GFSK_DTS (2Mbps CH76)	3	-1.95	-2.16	0.21
	BLE CS ASK_FHSS (2Mbps CH76)	3	-10.53	-11.69	1.16
	WiFi 2.4GHz (HE20 CH12 Full RU)	4+3	-1.58	-2.78	1.20
	WiFi 5GHz (HE20 CH136 Full RU)	4+3	-1.52	-2.24	0.72
	WiFi 6GHz (11a CH001)	4+3	-1.89	-2.39	0.50

Note: BLE CS means BLE Channel Sounding.



Reference detail Section

Rule Part	Equipment Class	Wireless Technology	Rule Part & Frequency Band	Reference FCC ID (Parent)	Type Grant/Permissive Change	Reference Exhibit	Full report referenced	FCC ID Filing (Variant)
15C	DXX	NFC	§15.255 13.56MHz	A4RGXQ96	Original Grant	GXQ96_FCC Part 15C NFC	Y	A4RGTF7P



List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
LOOP Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Sep. 12, 2023	Aug. 08, 2024 ~ Aug. 12, 2024	Sep. 11, 2024	Radiation (03CH21-HY)
Bilog Antenna	TESEQ & WOKEN	CBL 6111D & 00802N1D-06	63303 & 001	30MHz~1GHz	Oct. 15, 2023	Aug. 08, 2024 ~ Aug. 12, 2024	Oct. 14, 2024	Radiation (03CH21-HY)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00227880	1GHz~18GHz	Oct. 04, 2023	Aug. 08, 2024 ~ Aug. 12, 2024	Oct. 03, 2024	Radiation (03CH21-HY)
Double Ridged Guide Horn Antenna	RFSPIN	DRH18-E	LE2C03A18EN	1GHz~18GHz	Jul. 11, 2024	Aug. 08, 2024 ~ Aug. 12, 2024	Jul. 10, 2025	Radiation (03CH21-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	1223	18GHz~40GHz	Jun. 24, 2024	Aug. 08, 2024 ~ Aug. 12, 2024	Jun. 23, 2025	Radiation (03CH21-HY)
Amplifier	SONOMA	310N	421580	30MHz~1GHz	Jul. 14, 2024	Aug. 08, 2024 ~ Aug. 12, 2024	Jul. 13, 2025	Radiation (03CH21-HY)
Amplifier	EMEC	EM01G18GA	060876	1GHz~18GHz	Sep. 28, 2023	Aug. 08, 2024 ~ Aug. 12, 2024	Sep. 27, 2024	Radiation (03CH21-HY)
Preamplifier	EMEC	EM18G40G	060871	18GHz~40GHz	Aug. 30, 2023	Aug. 08, 2024 ~ Aug. 12, 2024	Aug. 29, 2024	Radiation (03CH21-HY)
Spectrum Analyzer	Keysight	N9010B	MY62170358	10Hz~44GHz	Aug. 28, 2023	Aug. 08, 2024 ~ Aug. 12, 2024	Aug. 27, 2024	Radiation (03CH21-HY)
Signal Generator	Rohde & Schwarz	SMW200A	111391	N/A	Jan. 23, 2024	Aug. 08, 2024 ~ Aug. 12, 2024	Jan. 22, 2025	Radiation (03CH21-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9K~30M	Mar. 06, 2024	Aug. 08, 2024 ~ Aug. 12, 2024	Mar. 05, 2025	Radiation (03CH21-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804397/2,804612/2,804614/2	30MHz~40GHz	Oct. 24, 2023	Aug. 08, 2024 ~ Aug. 12, 2024	Oct. 23, 2024	Radiation (03CH21-HY)
Hygrometer	TECPTEL	DTM-303A	TP211568	N/A	Oct. 30, 2023	Aug. 08, 2024 ~ Aug. 12, 2024	Oct. 29, 2024	Radiation (03CH21-HY)
Controller	EMEC	EM 1000	N/A	Control Turn table & Ant Mast	N/A	Aug. 08, 2024 ~ Aug. 12, 2024	N/A	Radiation (03CH21-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	Aug. 08, 2024 ~ Aug. 12, 2024	N/A	Radiation (03CH21-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	Aug. 08, 2024 ~ Aug. 12, 2024	N/A	Radiation (03CH21-HY)
Software	Audix	E3 6.2009-8-24	RK-002349	N/A	N/A	Aug. 08, 2024 ~ Aug. 12, 2024	N/A	Radiation (03CH21-HY)
DC Power Supply	GW Insteck	GPE2323	GET910884	0V~64V ;0A~6A	Nov. 16, 2023	Jul. 31, 2024~Aug. 03, 2024	Nov. 15, 2024	Conducted (TH03-HY)
Signal Analyzer	Rohde & Schwarz	FSV3044	101049	10Hz~44GHz	Sep. 26, 2023	Jul. 31, 2024~Aug. 03, 2024	Sep. 25, 2024	Conducted (TH03-HY)
Temperature Chamber	ESPEC	SU-241	92003713	-30°C ~95°C	May 14, 2024	Jul. 31, 2024~Aug. 03, 2024	May 13, 2025	Conducted (TH03-HY)
Hygrometer	TECPTEL	DTM-303B	TP200886	NA	Mar. 14, 2024	Jul. 31, 2024~Aug. 03, 2024	Mar. 13, 2025	Conducted (TH03-HY)
Base Station (Measure)	Anritsu	MT8000A	6262148275	FR1	Oct. 24, 2023	Jul. 31, 2024~Aug. 03, 2024	Oct. 23, 2024	Conducted (TH03-HY)
Coupler	MVE	MVE-4816-10	A400024	N/A	Jun. 27, 2024	Jul. 31, 2024~Aug. 03, 2024	Jun. 26, 2025	Conducted (TH03-HY)
Software 1	Sporton	FCC 5GNR_FSV3044_20231106	N/A	Conducted Test Item	N/A	Jul. 31, 2024~Aug. 03, 2024	N/A	Conducted (TH03-HY)

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