



No.:
FCCSZ2025-0044-RF6

TEST REPORT

FCC ID : 2A7DX-SHARKTIGER


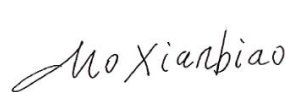

NAME OF SAMPLE : Mobile Phone

APPLICANT : DOKE COMMUNICATION (HK) LIMITED

CLASSIFICATION OF TEST : N/A

CVC Testing Technology (Shenzhen) Co., Ltd.



Applicant	Name: DOKE COMMUNICATION (HK) LIMITED Address: 19H MAXGRAND PLAZA NO 3 TAI YAU STREET SAN PO KONG KL		
Manufacturer	Name: Shenzhen DOKE Electronic Co., Ltd Address: 801, Building3, 7th Industrial Zone, Yulv Community, Yutang Road, Guangming District, Shenzhen, China.		
Equipment Under Test	Product Name: Mobile Phone Model Name: SHARK 6 Additional Model Name: TIGER 8 Brand Name: Blackview, OSCAL Serial NO.: N/A Sample NO.: 202505200770-2		
Date of Receipt.	May. 20, 2025	Date of Testing	May. 20, 2025 ~ Jul. 23, 2025
Test Specification		Test Result	
FCC Part 15, Subpart C, Section 15.225		PASS	
Evaluation of Test Result	The equipment under test was found to comply with the requirements of the standards applied. Seal of CVC Issue Date: Jul. 23, 2025		
Compiled by:  Zhu Yulin Name Signature	Reviewed by:  Mo Xianbiao Name Signature	Approved by:  Dong Sanbi Name Signature	
Other Aspects: NONE.			
Abbreviations: OK, Pass= passed Fail = failed N/A= not applicable EUT= equipment, sample(s) under tested			

This test report relates only to the EUT, and shall not be reproduced except in full, without written approval of CVC.



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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FCCSZ2025-0044-RF6	Original release	Jul. 23, 2025



1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 15, Subpart C Section 15.225			
FCC STANDARD SECTION	TEST TYPE AND LIMIT	RESULT	REMARK
15.207	AC Power Line Conducted Emission	PASS	Meet the requirement of limit.
15.225 (a)&(b)&(c) 15.205	The field strength of Fundamental Emission	PASS	Meet the requirement of limit.
15.225 (d) 15.209	Radiated Emissions	PASS	Meet the requirement of limit.
15.225 (e)	Frequency tolerance	PASS	Meet the requirement of limit.
15.215 (c)	20dB Bandwidth	PASS	Meet the requirement of limit.
15.203	Antenna Requirement	PASS	No antenna connector is used.



1.1 LIST OF TEST AND MEASUREMENT INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial Number	Cal. interval	Cal. Day	Cal. Due
Antenna Port Conducted Test (BT/WiFi)						
Spectrum Analyzer	R&S	FSV 30	CS030002	1 year	2025/04/23	2026/04/22
Analog signal Generator	R&S	SMB 100A	CS0300015	1 year	2025/04/23	2026/04/22
Vector signal Generator	R&S	SGT 100A	CS0300017	1 year	2025/04/23	2026/04/22
RF control unit(BT/WIFI)	Tonscend	JS0806-2-8CH	CS0300023	1 year	2025/04/23	2026/04/22
RF control unit(DTV)	Tonscend	JS0806-1	CS0300024	1 year	2025/04/23	2026/04/22
DC power supply	R&S	HMC8041-G	CS0300026	1 year	2025/04/23	2026/04/22
#3Shielding room	MORI	443	CS0300009	3 year	2023/05/17	2026/05/16
Digital multimeter	FLUKE	18B+	CS0200056	1 year	2025/05/22	2026/05/21
Power splitter	Anritsu	K240CPOWERDIVIDER	012334	1 year	2025/06/06	2026/06/05
Temperature and humidity meter	UNI-T	A10T	C193561457	1 year	2025/04/29	2026/04/28
Radiation Spurious Test - 3M Chamber #2						
Spectrum Analyzer	R&S	FSV 40	CS0300001	1 year	2025/04/23	2026/04/22
Spectrum Analyzer	R&S	FSVA 3044	CS0300004	1 year	2025/05/22	2026/05/21
EMI Test Receiver	R&S	ESR3	CS0300005	1 year	2025/05/22	2026/05/21
Horn antenna(1GHz-18GHz)	ETS-Lindgren	3117	CS0300007	1 year	2025/03/29	2026/03/28
Horn antenna(18GHz-40GHz)	STEATITE	QMS-00880	CS0300008	1 year	2025/03/22	2026/03/21
Automatic control unit(RSE)	R&S	OSP220	CS0300019	1 year	2025/06/06	2026/06/05
Filter group(RSE-BT/WiFi)	R&S	WiFi/BT Variant 1	CS0300020	1 year	2025/04/23	2026/04/22
Filter group(RSE-Cellular)	R&S	Cellular Variant 1	CS0300021	1 year	2025/04/23	2026/04/22
Preamplifier(1GHz-18GHz)	R&S	SCU18F	CS0300031-1	1 year	2025/04/23	2026/04/22
Preamplifier(1GHz-18GHz)	R&S	SCU-18F	CS0300031	1 year	2025/04/23	2026/04/22
Comprehensive Test Instrument	R&S	CMW 500	CS0300033	1 year	2025/05/23	2026/05/22
Antenna(30MHz~1001MHz)	SCHWARZBECK	VULB9168	CS0200006	1 year	2025/01/23	2026/01/22
Preamplifier(1GHz-18GHz)	R&S	SCU-01F	CS0200042	1 year	2025/04/23	2026/04/22
Preamplifier(18GHz-40GHz)	R&S	SCU40A	CS0200045	1 year	2025/04/23	2026/04/22
Attenuator	boyang	BY--N-2W-5dB	/	1 year	2025/01/23	2026/01/22
Temperature and humidity meter	yuhuaze	/	WK0001	1 year	2025/04/29	2026/04/28
#2 control room	MORI	433	CS0300028	3 year	2023/05/17	2026/05/16
3m anechoic chamber	MORI	966	CS0300011	3 year	2023/05/17	2026/05/16
Radiation Spurious Test - 3M Chamber #1						
EMI Test Receiver	Rohde&Schwarz	ESR 26	101718	1 year	2025/05/22	2026/05/21
Loop antenna (8.3k~30MHz)	Rohde&Schwarz	HFH2-Z2E	100951	1 year	2025/06/19	2026/06/18
Antenna(30MHz~1000MHz)	SCHWARZBECK	VULB 9168	1132	1 year	2025/02/28	2026/02/27
3m anechoic chamber	MORI	966	N/A	1 year	2025/05/19	2026/05/18
Preamplifier(10kHz-1GHz)	Rohde&Schwarz	SCU-01F	100298	1 year	2025/04/23	2026/04/22
Preamplifier(1GHz-18GHz)	Rohde&Schwarz	SCU-18F	100799	1 year	2025/04/23	2026/04/22
#1 control room	MORI	433	/	3year	2023/05/17	2026/05/16
Temperature and humidity meter	/	C193561473	C193561473	1 year	2025/04/29	2026/04/28



Conducted emission						
EMI Test Receiver	R&S	ESR3	CS0300001	1 year	2025/05/22	2026/05/21
Voltage probe	SCHWARZBECK	CVP9222C	CS0200002-2	1 year	2025/04/29	2026/04/28
Voltage probe	R&S	EZ-17	CS0200002-3	1 year	2025/04/23	2026/04/22
ISN network	R&S	ENY81	CS0200015	1 year	2025/04/23	2026/04/22
ISN network	R&S	ENY81Cat6	CS0200016	1 year	2025/04/23	2026/04/22
Artificial Power Network (three-phase)	SCHWARZBECK	NNLK&8129RC	CS0200037	1 year	2025/04/23	2026/04/22
Temperature and humidity meter	UNI-T	A10T	C193561430	1 year	2025/04/29	2026/04/28
limiter (10 dB)	Rohde&Schwarz	ESH3-Z2	102824	1 year	2024/05/16	2025/05/15



1.2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

No.	Item	Measurement Uncertainty
1	Occupied Channel Bandwidth	± 1.86 %
2	RF output power, conducted	± 0.9 dB
3	Power Spectral Density, conducted	± 0.8 dB
4	Conducted emission test	± 2.7 dB
5	Radiated emission 9kHz-30MHz	± 5.6 dB
	Radiated emission 30MHz-1GHz	± 4.6 dB
	Radiated emission 1GHz-18GHz	± 4.4 dB
	Radiated emission 18GHz-40GHz	± 5.1 dB
6	Temperature	± 0.73 °C
7	Humidity	± 3.90 %
8	Supply voltages	± 0.37 %
9	Time	± 0.27 %
Remark: 95% Confidence Levels, k=2.		

1.3 TEST LOCATION

The tests and measurements refer to this report were performed by EMC testing Lab of CVC Testing Technology (Shenzhen) Co., Ltd.

Address: No. 1301-14&16, Guanguang Road, Xinlan Community, Guanlan Subdistrict, Longhua District, Shenzhen, Guangdong, China

Post Code: 518110 Tel: 0755-23763060-8805
Fax: 0755-23763060 E-mail: sz-kf@cvc.org.cn
FCC(Test firm designation number: CN1363)
IC(Test firm CAB identifier number: CN0137)
CNAS(Test firm designation number: L16091)



2 GENERAL INFORMATION

2.1 GENERAL PRODUCT INFORMATION

PRODUCT NAME	Mobile Phone	
BRAND NAME (Remark 6)	Blackview, OSCAL	
MODEL NAME	SHARK 6	
ADDITIONAL MODEL NAME (Remark 6)	TIGER 8	
POWER SUPPLY	1. DC 3.89V (1*3.89V Rechargeable Li-ion battery) 2. DC 5/9/12V From Adapter	
MODULATION TYPE	ASK	
OPERATING FREQUENCY	13.56MHz	
NUMBER OF CHANNEL	1	
ANTENNA TYPE (Remark 4/5)	Loop antenna	
HARDWARE VERSION:	S823M_V1	
SOFTWARE VERSION:	SHARK 6:	SHARK6_NEU_S7608A_V1.0
	TIGER 8:	TIGER8_NEU_S7608B_V1.0
I/O PORTS	Refer to User's Manual	
CABLE SUPPLIED	N/A	

Remark:

1. For more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
2. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.
3. EUT photo refer to the report (Report NO.: FCCSZ2025-0044-EUT).
4. Please refer to the antenna report.
5. Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information, CVC is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.
6. SHARK 6 and TIGER 8 differ only in the rear camera ID lens and brands (Blackview vs. OSCAL); all other specs are identical.

2.2 DESCRIPTION OF ACCESSORIES

	Adapter
Brand	N/A
Model No.:	QZ-0180AAA00
Input:	100-240V~50/60Hz 0.5A
Output:	5.0V \Rightarrow 3.0A, 15.0W 9.0V \Rightarrow 2.0A, 18.0W 12.0V \Rightarrow 1.5A, 18.0W
SN	N/A
AC Cable:	N/A
DC Cable:	N/A



2.3 OTHER INFORMATION

The EUT only have one channel.

CHANNEL	FREQUENCY (MHz)
1	13.56

2.4 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports

The worst case was found when positioned on X axis for radiated emission. Following channel(s) was (were) selected for the final test as listed below:

EUT CONFIGURE MODE	APPLICABLE TO				DESCRIPTION
	RE	FT	PLC	BW	
A	√	√	√	√	NFC Link

Where RE: Radiated Emission

FT: Frequency tolerance

PLC: Power Line Conducted Emission

BW: 20dB Bandwidth

RADIATED EMISSION TEST:

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, XYZ axis, antenna ports (if EUT with antenna diversity architecture) and packet type.
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	TESTED CHANNEL	TESTED FREQUENCY (MHZ)	MODULATION TYPE	AXIS
A	1	13.56	ASK	X
	1	13.56	ASK	Y
	1	13.56	ASK	Z

FREQUENCY TOLERANCE:

- ☒ This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, antenna ports (if EUT with antenna diversity architecture), and packet types.
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	TESTED CHANNEL	TESTED FREQUENCY (MHZ)	MODULATION TYPE	AXIS
A	1	13.56	ASK	Y



POWER LINE CONDUCTED EMISSION TEST:

- ☒ This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, antenna ports (if EUT with antenna diversity architecture), and packet types.
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	TESTED CONDITION
A	NFC Link

20dB BANDWIDTH:

- ☒ This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, antenna ports (if EUT with antenna diversity architecture), and packet types.
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	TESTED CHANNEL	TESTED FREQUENCY (MHZ)	MODULATION TYPE	AXIS
A	1	13.56	ASK	Y

TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	TEST VOLTAGE (SYSTEM)	TESTED BY
RE	26.1deg. C, 59%RH	DC 5/9/12V From Adapter	Liu Yuan
FT	26.1deg. C, 59%RH	DC 5/9/12V From Adapter	Zhu Yulin
PLC	26.1deg. C, 59%RH	DC 5/9/12V From Adapter	Wang Zhiming
BW	26.1deg. C, 59%RH	DC 5/9/12V From Adapter	Zhu Yulin



2.5 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF product, according to the specifications of the manufacturers. It must comply with the requirements of the following standards:

FCC PART 15, Subpart C. Section 15.225

ANSI C63.10-2020

All test items have been performed and recorded as per the above standards

2.6 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

During the tests:

Support Equipment							
NO	Description	Brand	Model No.	Serial Number	Supplied by		
1	NFC Card	N/A	N/A	N/A	Lab		
Support Cable							
NO	Description	Quantity (Number)	Length (m)	Detachable (Yes/ No)	Shielded (Yes/ No)	Cores (Number)	Supplied by
1	N/A	N/A	N/A	N/A	N/A	N/A	N/A

3 TEST TYPES AND RESULTS

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 Limit

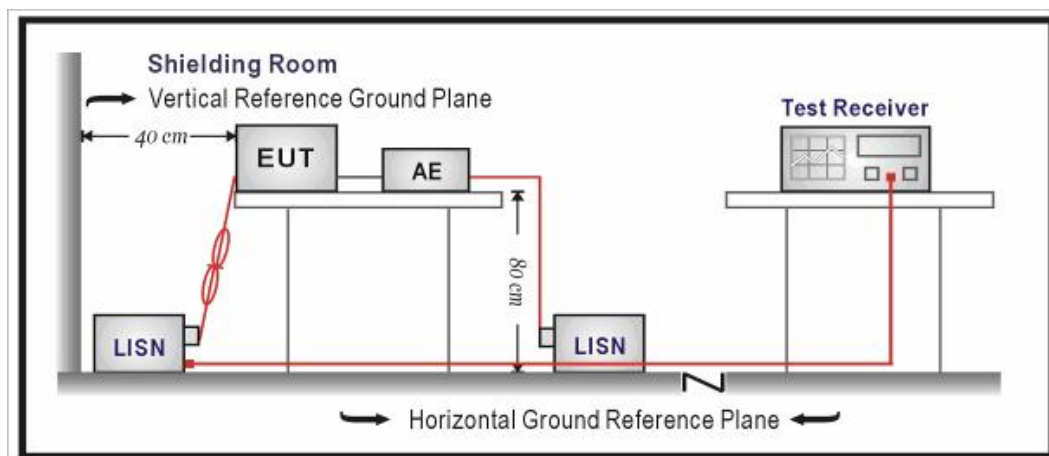
Frequency (MHz)	Conducted Limits(dBμV)	
	Quasi-peak	Average
0.15 - 0.5	66 to 56 *	56 to 46*
0.5 - 5	56	46
5 - 30	60	50

NOTE: 1. The lower limit shall apply at the transition frequencies.
NOTE: 2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

3.1.2 Measurement procedure

- The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the Test photographs) Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source. The equipment under test shall be placed on a support of non-metallic material, the height of which shall be 1.5m above the ground,
- The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
- Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.

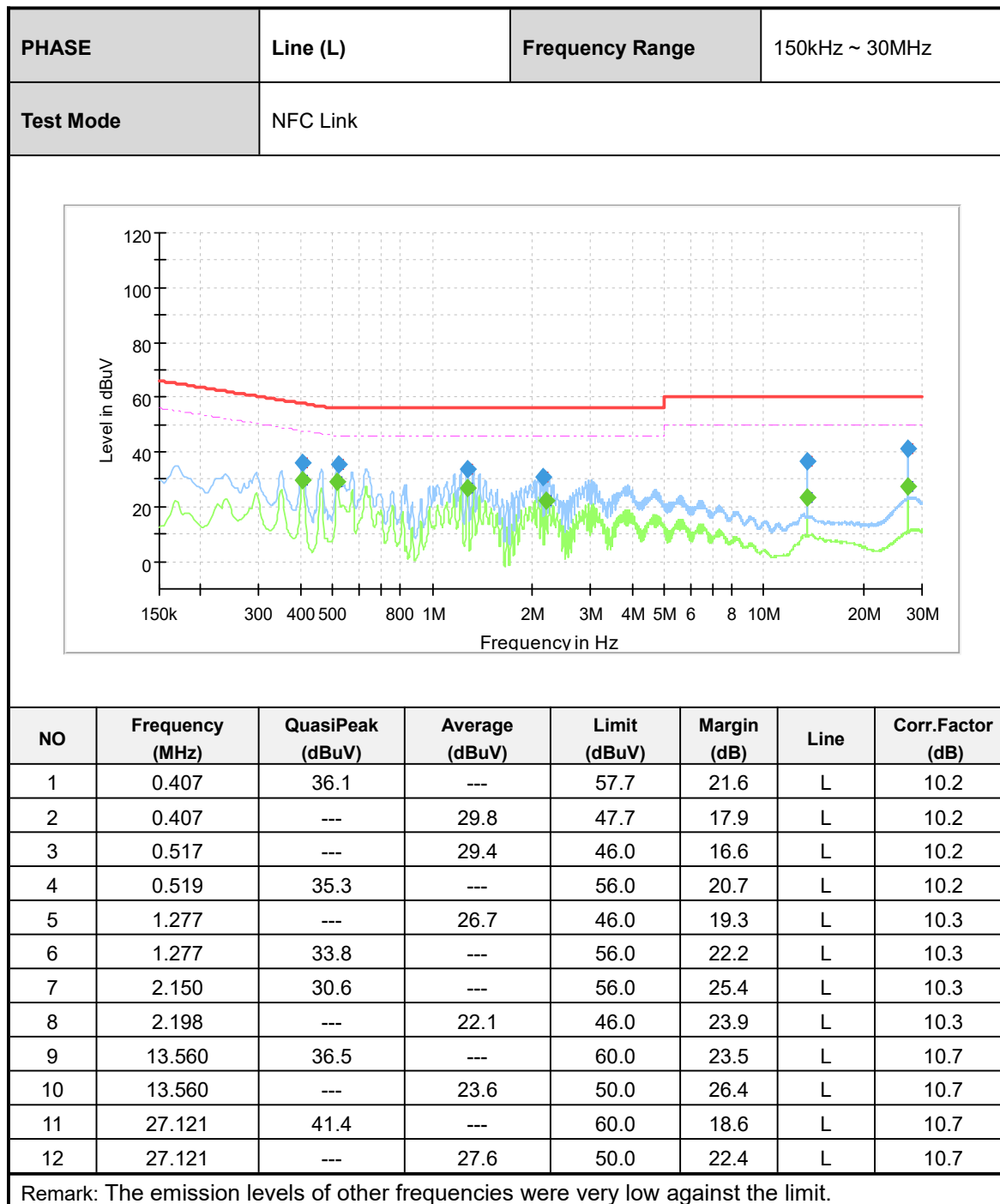
3.1.3 Test setup

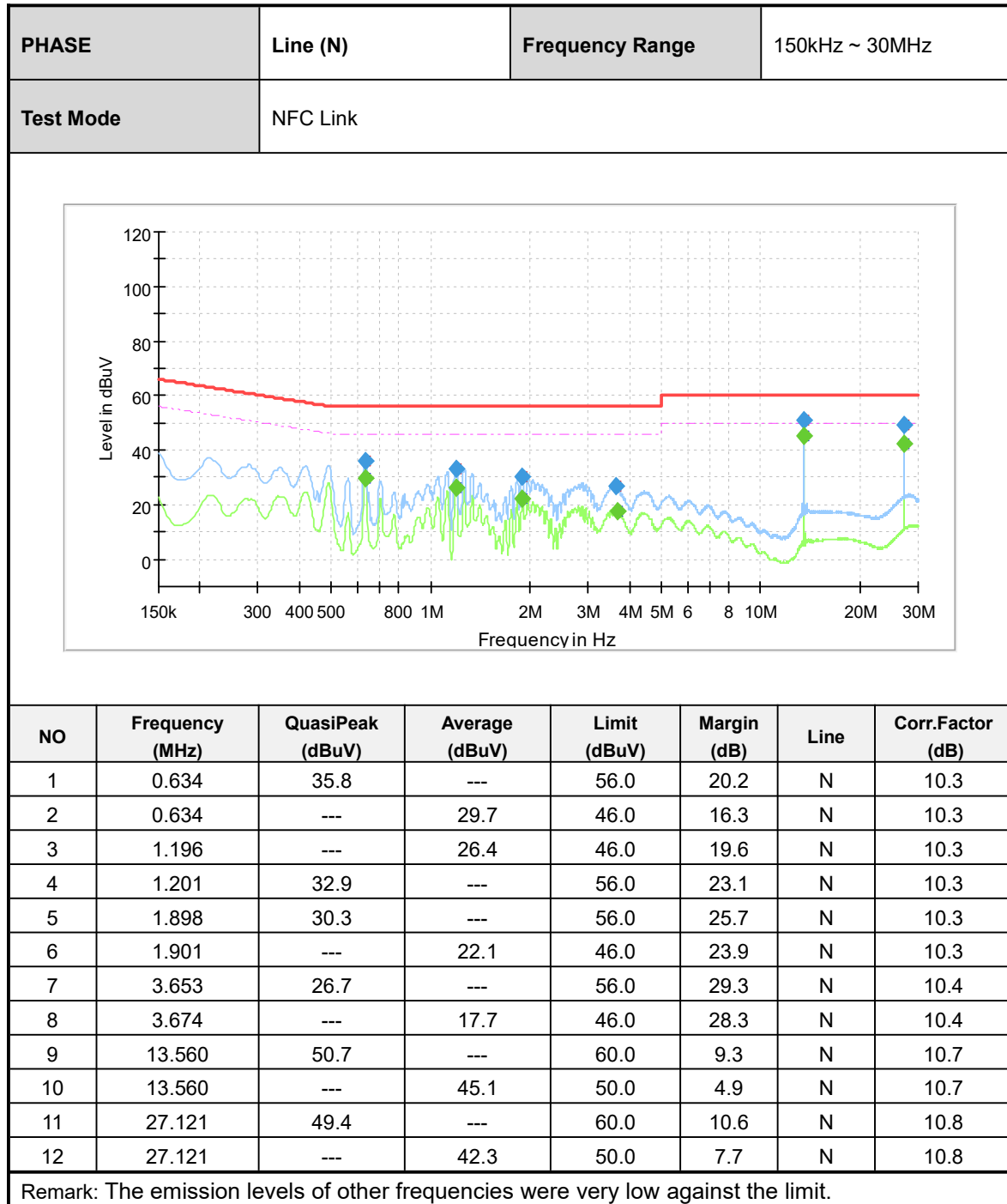




3.1.4 Test results

WORST-CASE DATA







3.2 RADIATED EMISSIONS MEASUREMENT

3.2.1 Limits

- (a) The field strength of any emissions within the band 13.553-13.567 MHz shall not exceed 15,848 microvolts/meter at 30 meters.
- (b) Within the bands 13.410-13.553 MHz and 13.567-13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters.
- (c) Within the bands 13.110-13.410 MHz and 13.710-14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters.

FREQUENCIES (MHz)	FIELD STRENGTH (Microvolts/Meter)	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

NOTE: 1. The lower limit shall apply at the transition frequencies.
NOTE: 2. Emission level (dBuV/m) = 20 log Emission level (uV/m).

3.2.2 Measurement procedure

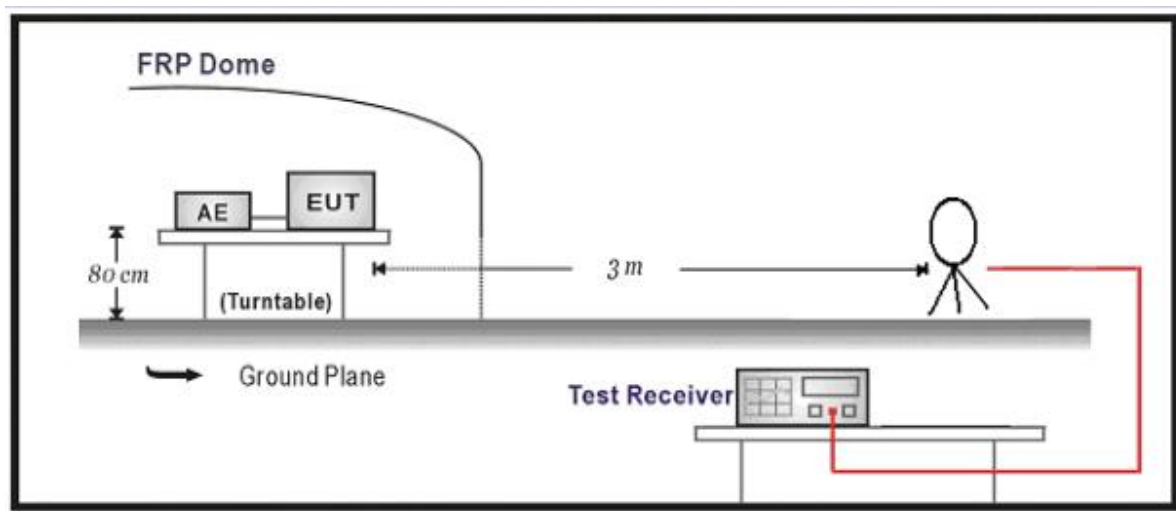
- The EUT was placed on the top of a rotating table 1.5 meters (above 1GHz) and 0.8 meters (below 1GHz) above the ground at a 3 meters semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- For below 1GHz was used bilog antenna, and above 1GHz was used horn antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- For below 30MHz, a loop antenna with its vertical plane is placed 3m from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. And the centre of the loop shall be 1m above the ground.
- During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables. For battery operated equipment, the equipment tests shall be performed using fresh batteries. The turntable was rotated to maximize the emission level.

NOTE:

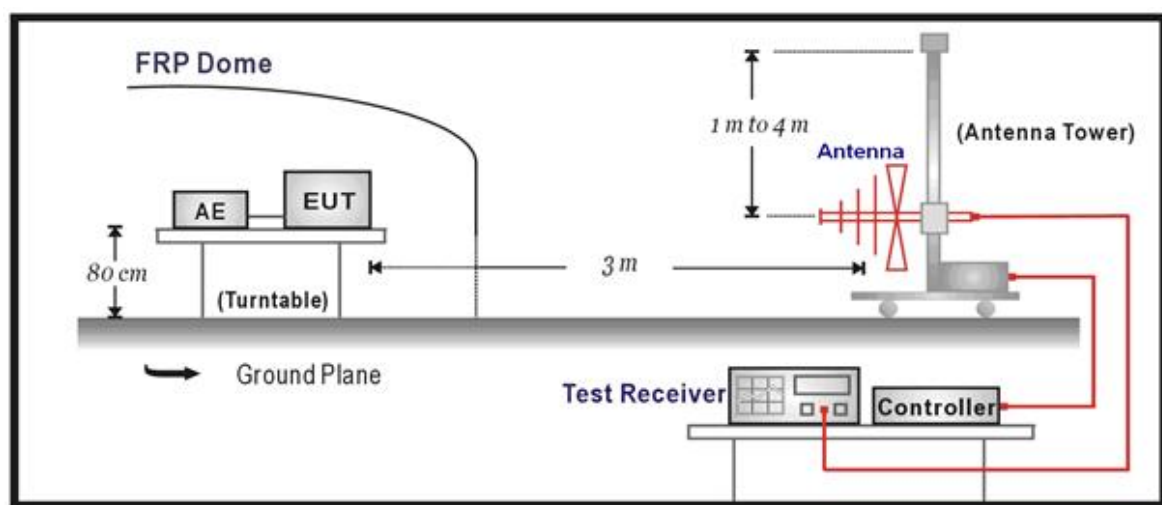
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle < 98%) or 10Hz(Duty cycle > 98%) for Average detection (AV) at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.
5. The testing of the EUT was performed on all 3 orthogonal axes; the worst-case test configuration was reported on the file test setup photo.

3.2.3 Test setup

Below 30MHz Test Setup:



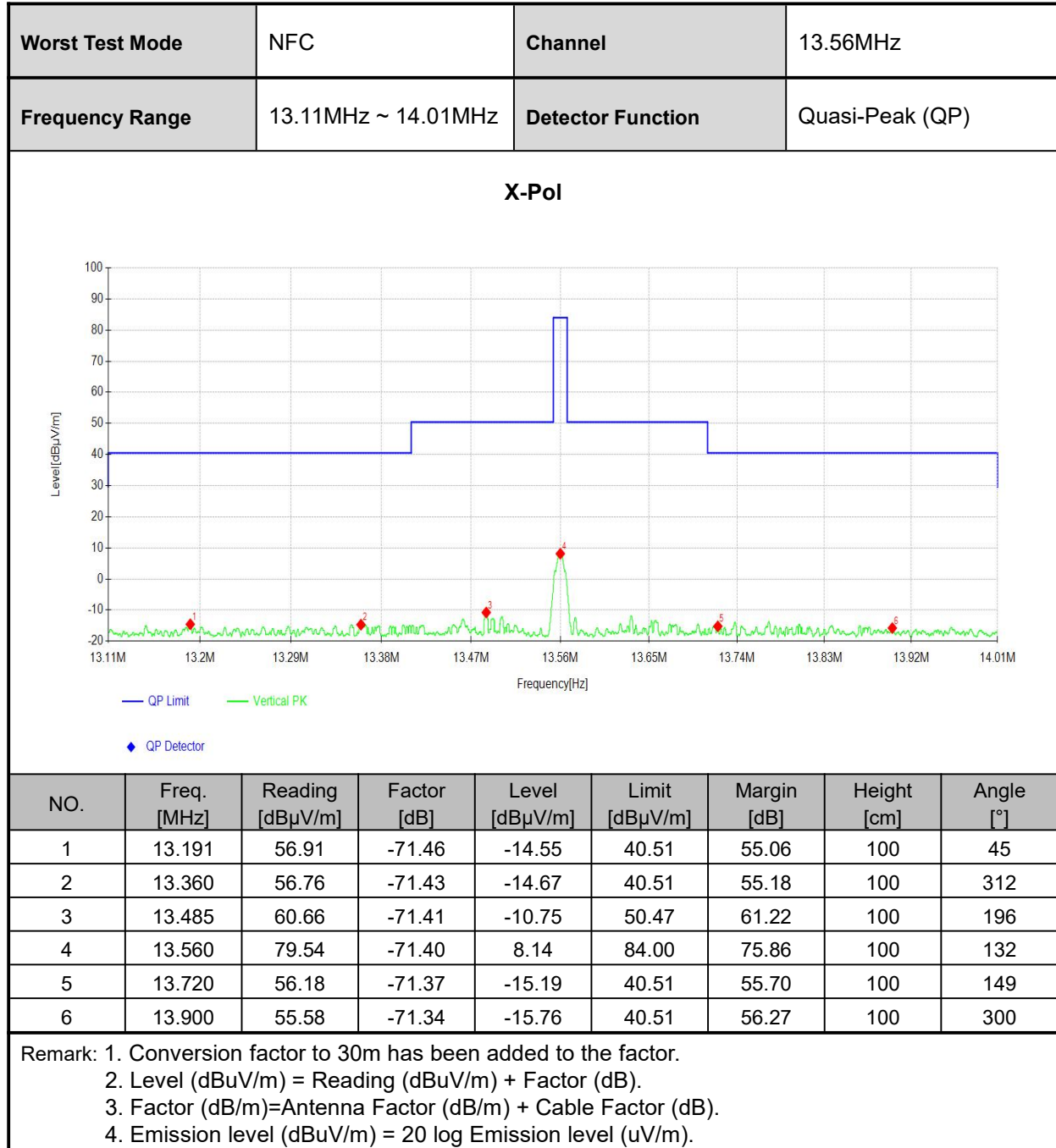
Below 1GHz Test Setup:

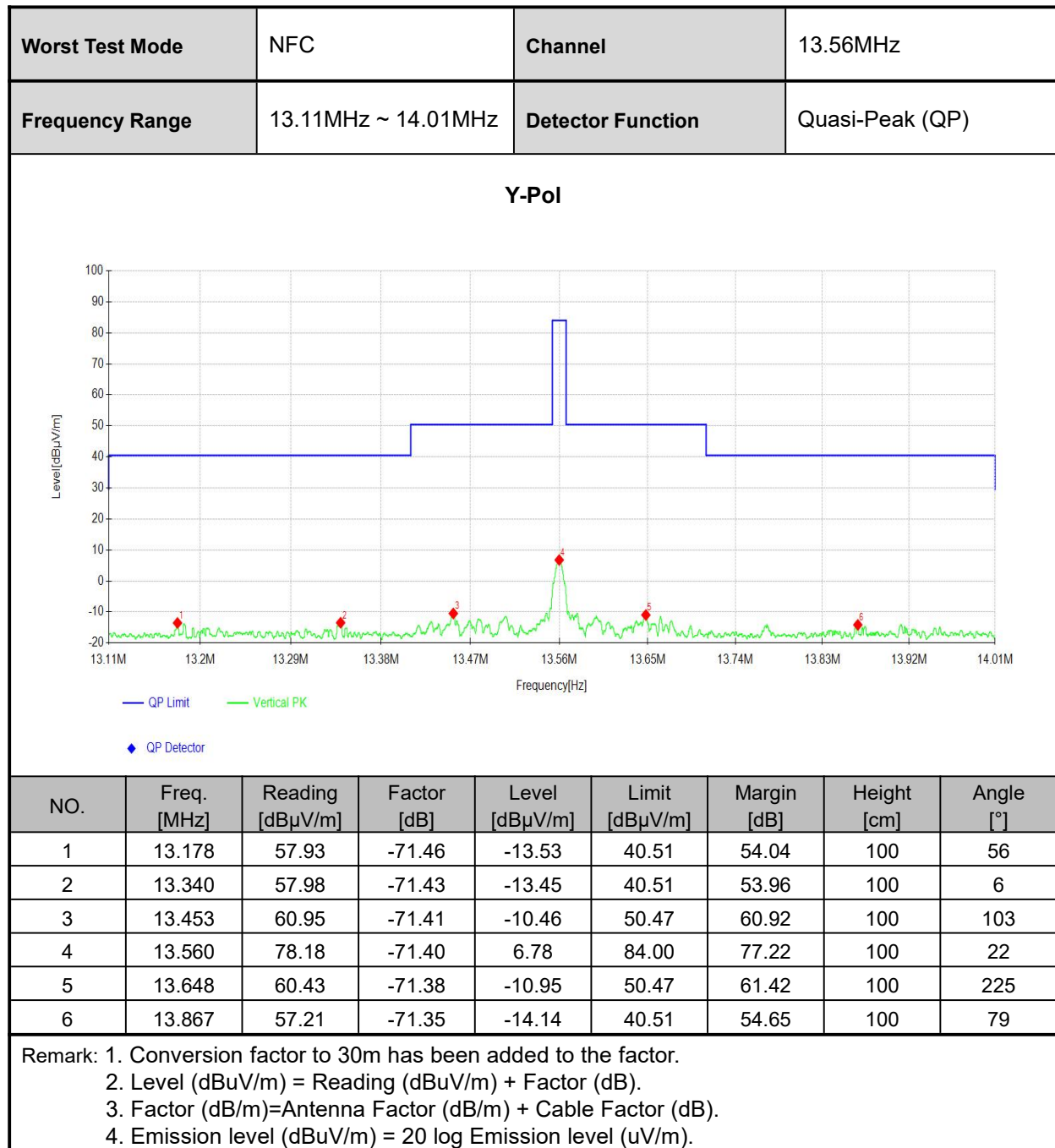


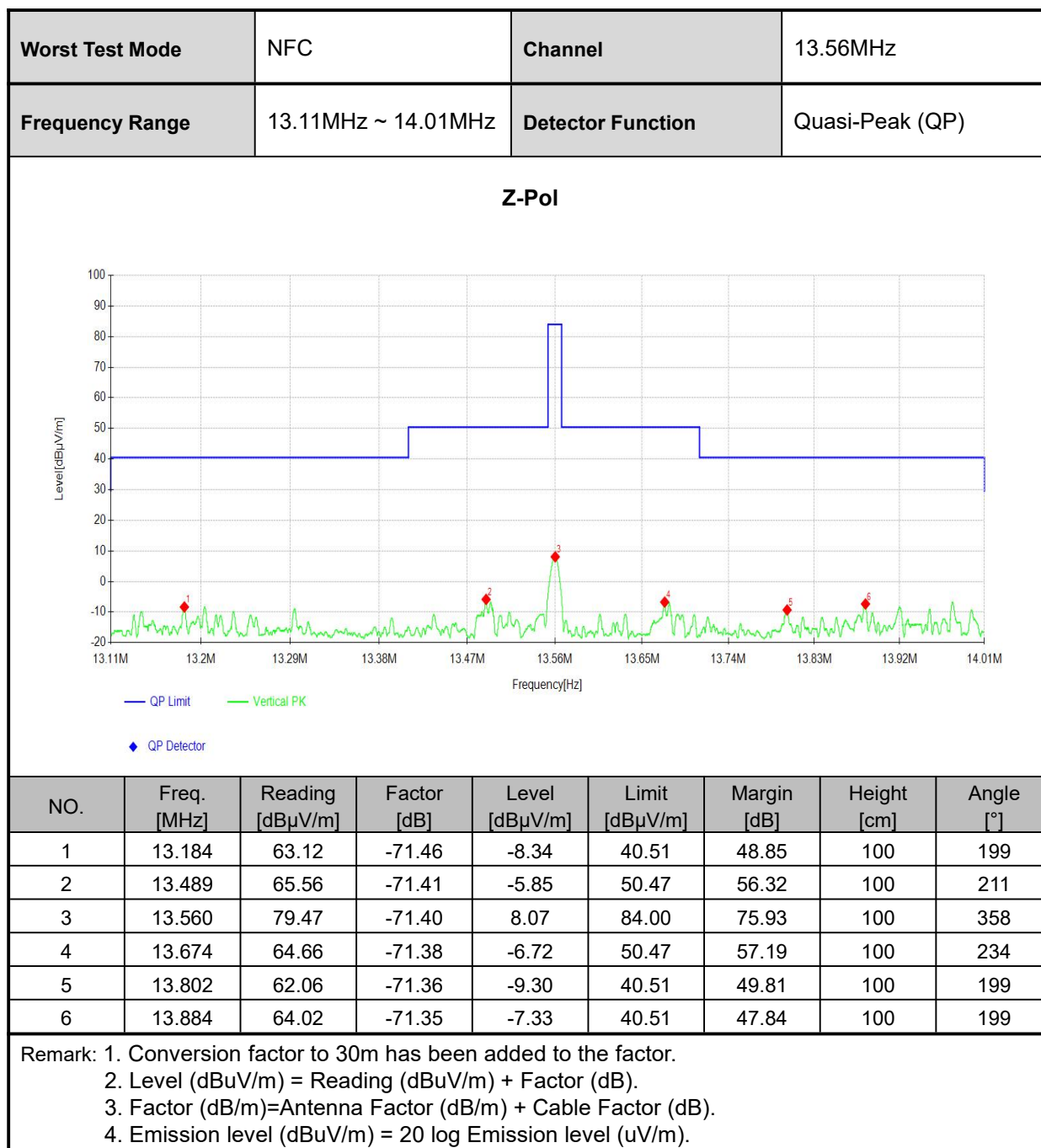


3.2.4 Test results

Result of The field strength of Fundamental Emission



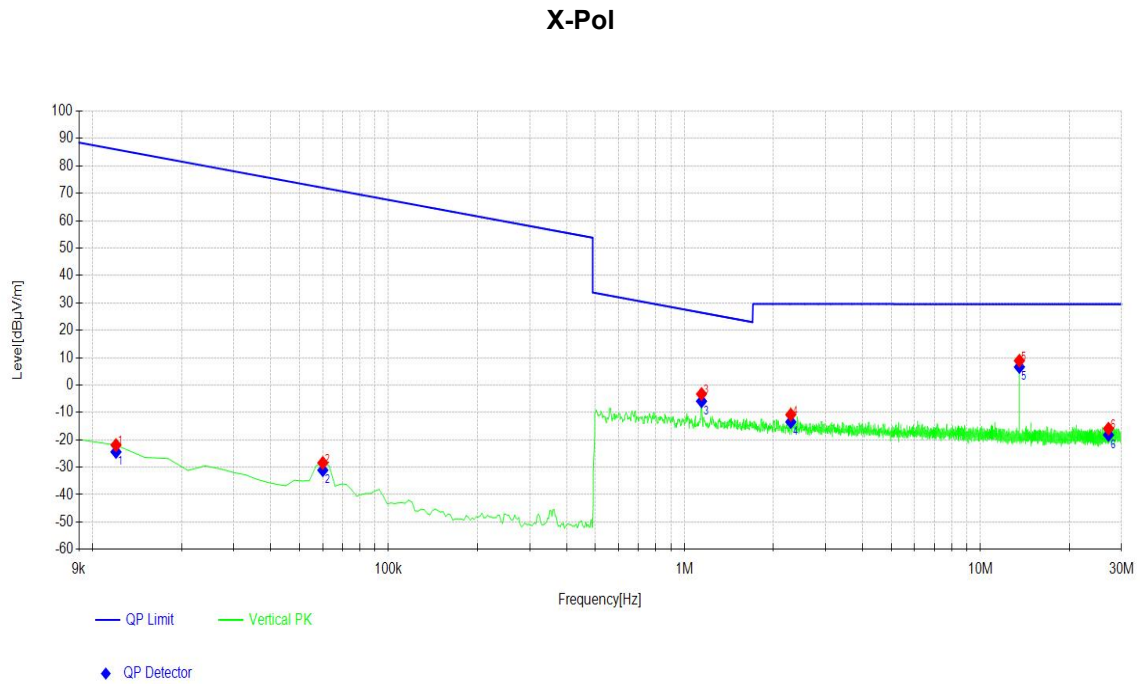






Result of Radiated Emissions(9kHz~30MHz)

Worst Test Mode	NFC	Channel	13.56MHz
Frequency Range	9KHz ~ 30MHz	Detector Function	Quasi-Peak (QP)



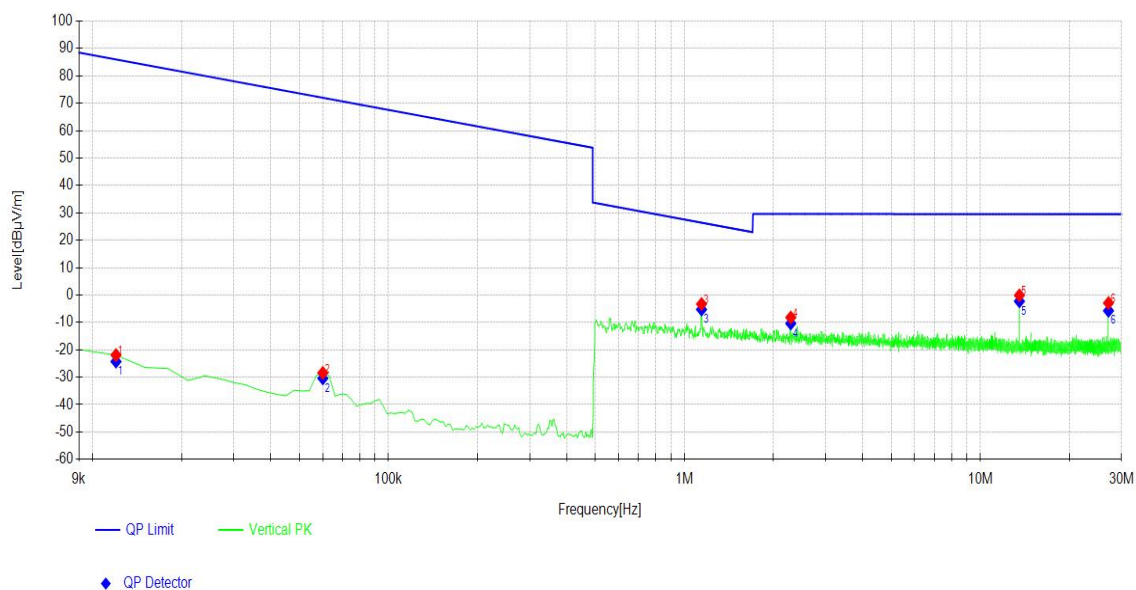
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]
1	0.012	37.54	-59.45	-21.91	86.02	107.93	150	176
2	0.060	30.76	-59.17	-28.41	72.04	100.45	150	268
3	1.143	15.93	-19.19	-3.26	26.43	29.69	150	228
4	2.289	8.26	-19.07	-10.81	29.57	37.77	150	228
5	13.560	28.80	-19.90	8.90	29.55	29.65	150	339
6	27.124	4.11	-20.03	-15.92	29.54	32.46	150	344

Remark: 1. Conversion factor to 30m has been added to the factor.
2. Level (dBuV/m) = Reading (dBuV/m) + Factor (dB).
3. Factor (dB/m)=Antenna Factor (dB/m) + Cable Factor (dB).
4. Emission level (dBuV/m) = 20 log Emission level (uV/m).



Worst Test Mode	NFC	Channel	13.56MHz
Frequency Range	9KHz ~ 30MHz	Detector Function	Quasi-Peak (QP)

Y-Pol



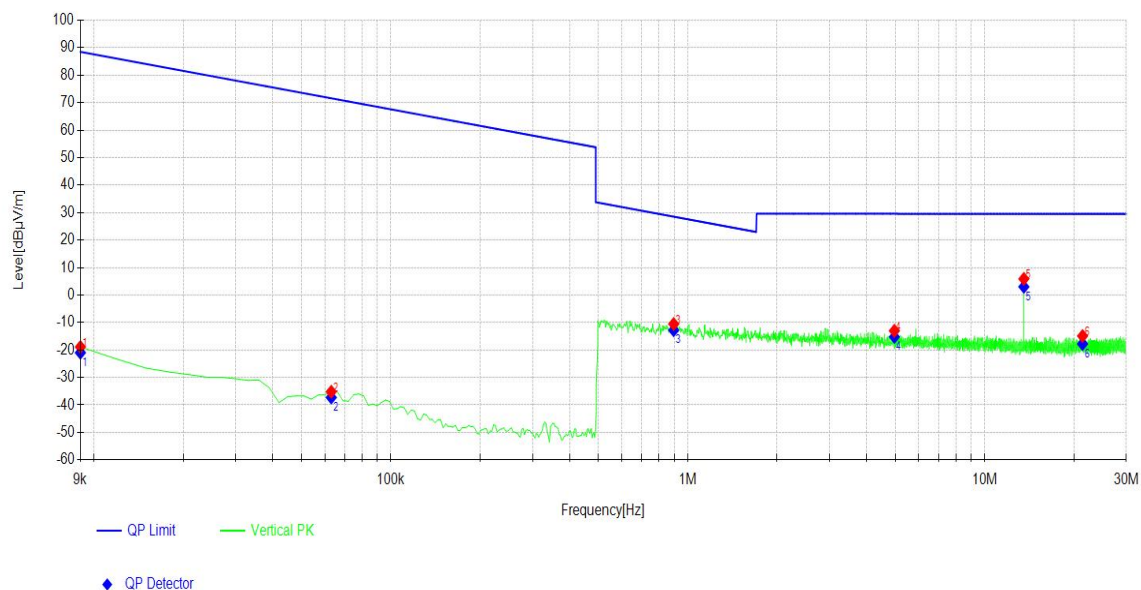
NO.	Freq. [MHz]	Reading [dBuV/m]	Factor [dB]	Level [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [°]
1	0.012	37.54	-59.45	-21.91	86.02	107.93	150	176
2	0.060	30.76	-59.17	-28.41	72.04	100.45	150	268
3	1.143	15.93	-19.19	-3.26	26.43	29.69	150	228
4	2.289	10.87	-19.07	-8.20	29.57	37.77	150	228
5	13.560	19.80	-19.90	-0.10	29.55	29.65	150	339
6	27.124	17.11	-20.03	-2.92	29.54	32.46	150	344

Remark: 1. Conversion factor to 30m has been added to the factor.
2. Level (dBuV/m) = Reading (dBuV/m) + Factor (dB).
3. Factor (dB/m)=Antenna Factor (dB/m) + Cable Factor (dB).
4. Emission level (dBuV/m) = 20 log Emission level (uV/m).



Worst Test Mode	NFC	Channel	13.56MHz
Frequency Range	9KHz ~ 30MHz	Detector Function	Quasi-Peak (QP)

Z-Pol



NO.	Freq. [MHz]	Reading [dBuV/m]	Factor [dB]	Level [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [°]
1	0.009	40.59	-59.48	-18.89	88.52	107.41	150	213
2	0.063	24.03	-59.21	-35.18	71.62	106.80	150	271
3	0.897	8.57	-19.12	-10.55	28.54	38.54	150	259
4	4.967	6.22	-19.22	-13.00	29.56	42.26	150	219
5	13.560	25.79	-19.90	5.89	29.55	23.66	150	277
6	21.377	5.06	-19.96	-14.90	29.54	44.19	150	120

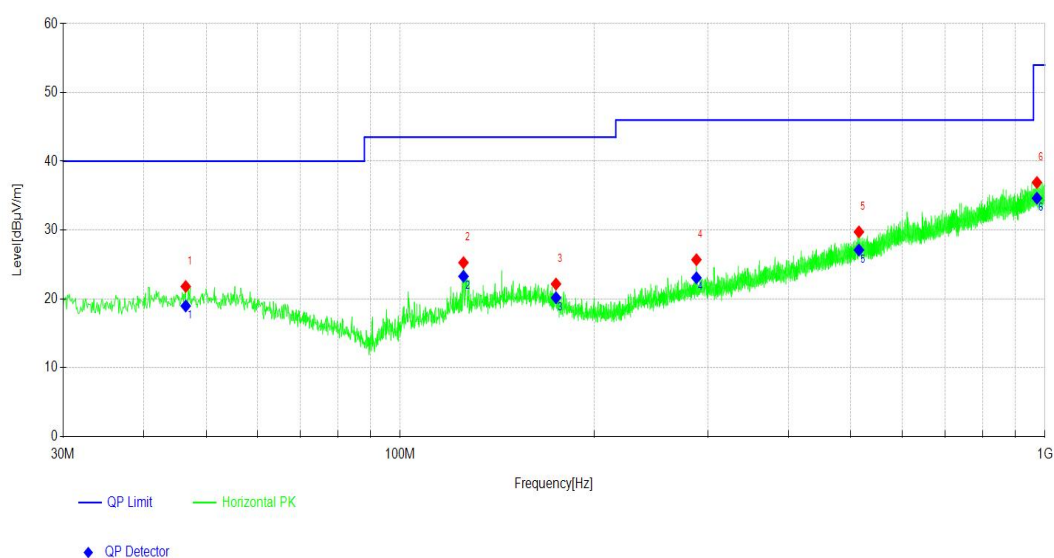
Remark: 1. Conversion factor to 30m has been added to the factor.
2. Level (dBuV/m) = Reading (dBuV/m) + Factor (dB).
3. Factor (dB/m)=Antenna Factor (dB/m) + Cable Factor (dB).
4. Emission level (dBuV/m) = 20 log Emission level (uV/m).



Result of Radiated Emissions(30MHz~1GHz)

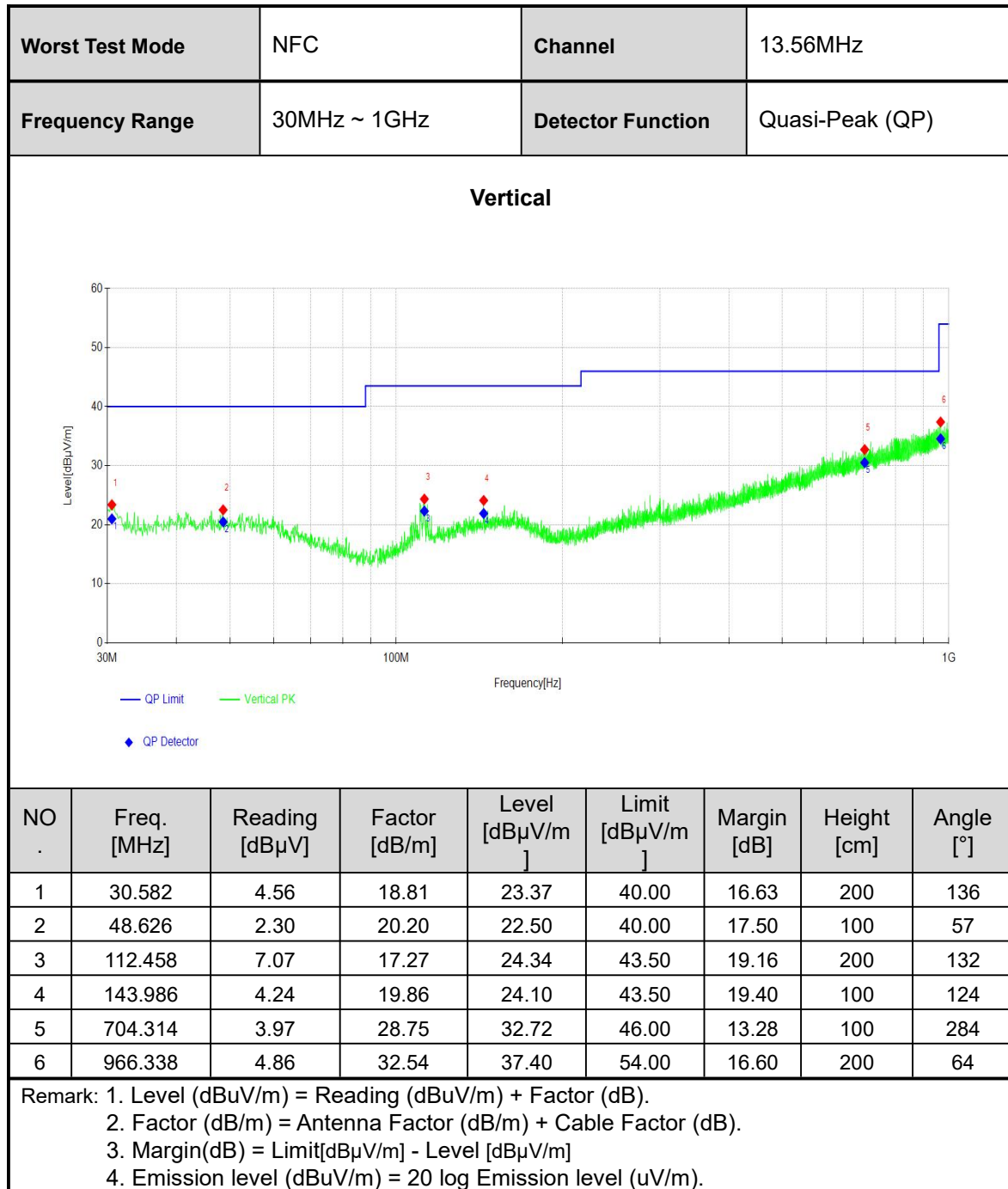
Worst Test Mode	NFC	Channel	13.56MHz
Frequency Range	30MHz ~ 1GHz	Detector Function	Quasi-Peak (QP)

Horizontal



NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]
1	46.492	1.65	20.14	21.79	40.00	18.21	100	110
2	125.361	6.66	18.60	25.26	43.50	18.24	200	158
3	174.447	3.03	19.12	22.15	43.50	21.35	100	118
4	288.046	5.13	20.56	25.69	46.00	20.31	100	139
5	514.563	4.03	25.70	29.73	46.00	16.27	100	321
6	971.770	4.56	32.36	36.92	54.00	17.08	100	152

Remark: 1. Level (dBuV/m) = Reading (dBuV/m) + Factor (dB).
2. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]
4. Emission level (dBuV/m) = 20 log Emission level (uV/m).



3.3 FREQUENCY TOLERANCE

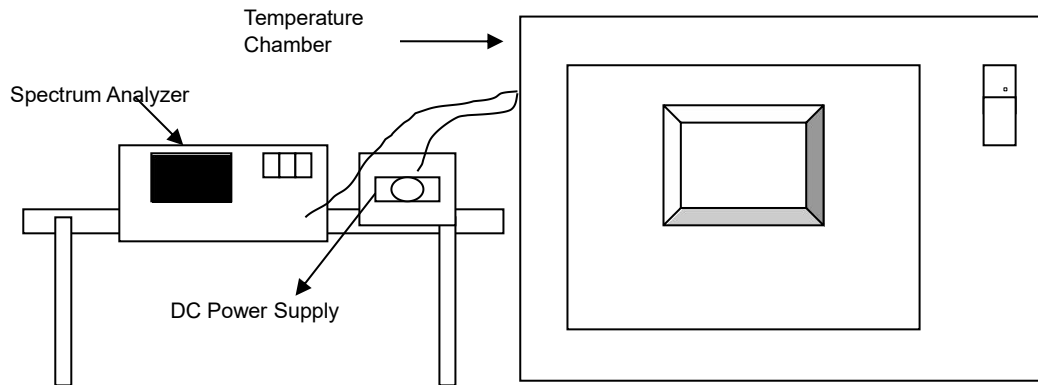
3.3.1 LIMIT OF FREQUENCY TOLERANCE

The frequency tolerance of the carrier signal shall be maintained within $\pm 0.01\%$ (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 using a new battery.

3.3.2 TEST PROCEDURES

Refer to ANSI C63.10-2020

3.3.3 TEST SETUP





3.3.4 TEST RESULTS

FREQUENCY STABILITY VERSUS TEMP.									
TEMP. (°C)	POWER SUPPLY (V)	0 MINUTE		2 MINUTE		5 MINUTE		10 MINUTE	
		Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)
50	5	13.56000	0.00	13.55999	-0.74	13.56002	1.47	13.55999	-0.74
40	5	13.56005	3.69	13.55999	-0.74	13.56001	0.74	13.56002	1.47
30	5	13.55998	-1.47	13.56001	0.74	13.56005	3.69	13.56002	1.47
20	5	13.55996	-2.95	13.56003	2.21	13.56001	0.74	13.55995	-3.69
10	5	13.56000	0.00	13.56001	0.74	13.55996	-2.95	13.56003	2.21
0	5	13.55996	-2.95	13.56002	1.47	13.55998	-1.47	13.55997	-2.21
-10	5	13.55995	-3.69	13.56003	2.21	13.56002	1.47	13.56003	2.21
-20	5	13.56000	0.00	13.55997	-2.21	13.55997	-2.21	13.56004	2.95
20	4.5	13.55999	-0.74	13.55998	-1.47	13.55995	-3.69	13.55995	-3.69
	5.5	13.56003	2.21	13.55996	-2.95	13.55999	-0.74	13.56004	2.95



3.4 20dB BANDWIDTH

3.4.1 LIMITS OF 20dB BANDWIDTH

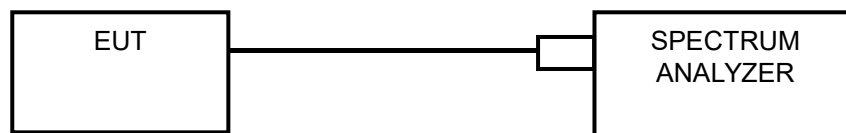
The 20dB bandwidth shall be specified in operating frequency band. (13.11MHz – 14.01MHz)

3.4.2 TEST PROCEDURE

- Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
- The resolution bandwidth of 1kHz and the video bandwidth of 3kHz were used.
- Measured spectrum width with power higher than 20dB below carrier.

Note: Because the measured signal is CW or CW-like adjust the RBW per C63.10 would not be practical since measured bandwidth will always follow the RBW and the result will be approximately the RBW

3.4.3 TEST SETUP

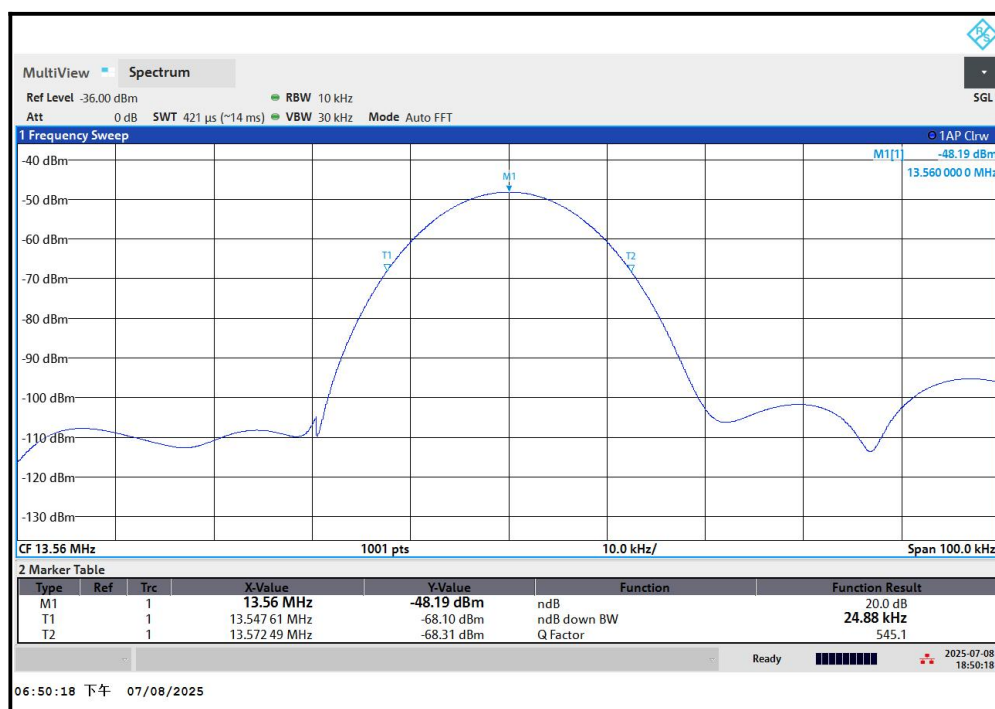




3.4.4 TEST RESULTS

Channel	Channel Frequency (MHz)	20db Bandwidth (KHz)
1	13.56	24.88

Lower & Upper Test Frequency Point (MHz)	Test Frequency (MHz)	P/F
Lower	13.5476	PASS
Upper	13.5725	PASS





4 PHOTOGRAPHS OF TEST SETUP

Please refer to the attached file (Test Photos).



5 PHOTOGRAPHS OF THE EUT

Please refer to the attached file (External Photos report and Internal Photos).

----- End of the Report -----



Important

- (1) The test report is invalid without the official stamp of CVC;
- (2) Any part photocopies of the test report are forbidden without the written permission from CVC;
- (3) The test report is invalid without the signatures of Approval and Reviewer;
- (4) The test report is invalid if altered;
- (5) Objections to the test report must be submitted to CVC within 15 days.
- (6) Generally, commission test is responsible for the tested samples only.
- (7) As for the test result “-” or “N” means “not applicable”, “/” means “not test”, “P” means “pass” and “F” means “fail”

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