



RADIO TEST REPORT

Applicant : Ubiquiti Inc.
Address : 685 Third Avenue, New York, New York 10017,
USA
Equipment : G3 Reader Flex
Model No. : UA-G3-Flex-W, UA-G3-Flex-B
Trade Name : UBIQUITI
FCC ID : SWX-UAG3F

I HEREBY CERTIFY THAT :

The sample was received on May. 16, 2024 and the testing was completed on Oct. 17, 2024 at CerpPASS Technology Corp. The test result refers exclusively to the test presented test model / sample. Without written approval of CerpPASS Technology Corp., the test report shall not be reproduced except in full.

Approved by:

Mark Liao / Supervisor

Laboratory Accreditation:

CerpPASS Technology Corporation Test Laboratory





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History of this test report

Report No.	Issued Date	Description
24090353-TRFCC01	Oct. 21, 2024	Original



1. Summary of Test Procedure and Test Results

1.1. Applicable Standards

ANSI C63.10:2013

FCC Rules and Regulations Part 15 Subpart C §15.225

FCC Rule	Description of Test	Result
15.203	Antenna Requirement	PASS
15.207	AC Power Line Conducted Emission	PASS
15.209 15.225	Radiated Emission	PASS
15.225	20dB Bandwidth	PASS
15.225(e)	Frequency Stability	PASS

*The lab has reduced the uncertainty risk factor from test equipment, environment and staff technicians which according to the standard on contract. Therefore, the test result will only be determined by standard requirement, measurement uncertainty evaluation is not considered.



2. Test Configuration of Equipment under Test

2.1. Feature of Equipment under Test

Operation Frequency Range	NFC: 13.553MHz~13.567MHz BLE: 2400-2483.5MHz
Center Frequency Range	NFC: 13.56MHz BLE: 2402MHz-2480MHz
Modulation Type	NFC: ASK BLE: GFSK
Modulation Technology	BLE:DTS
Data Rate	BLE: GFSK: 1Mbps
Antenna Type	NFC: Loop Antenna BLE: PIFA Antenna
Antenna Gain	NFC: 0dBi BLE: 1dBi

Note:For more details, please refer to the User's manual of the EUT.

Difference description:

Model No.	Remark
UA-G3-Flex-W	color difference
UA-G3-Flex-B	



2.2. Carrier Frequency of Channels

Channel	Frequency(MHz)
*1	13.56

Note: Channel remarked “*” is selected to perform test.

2.3. Test Mode and Test Software

- a. During testing, the interface cables and equipment positions were varied according to ANSI C63.10.
- d. Hardware control was executed to transmit and receive data via NFC.
- c. The test mode of RF test as follow:

Conducted Emissions from the AC mains power ports	
Test Mode	Operating Description
1	Transmitter Mode, From POE (120V/60Hz)
2	Transmitter Mode, From POE (240V/60Hz)
caused “Test Mode 1” generated the worst case, it was reported as the final data.	
Radiation Emissions (Below1GHz)	
Test Mode	Operating Description
1	Transmitter Mode, From POE (120V/60Hz), NFC -RW Free ISO14443-4A
2	Transmitter Mode, From POE (120V/60Hz), NFC-Locked ISO15693
3	Transmitter Mode, From POE (120V/60Hz), NFC-RW Free ISO14443-4B
caused “Test Mode 3” generated the worst case, it was reported as the final data.	
Radiation Emissions (Above1GHz)	
Test Mode	Operating Description
1	Transmitter Mode, From POE (120V/60Hz)
2	Transmitter Mode, From POE (240V/60Hz)
caused “Test Mode 1” generated the worst case, it was reported as the final data.	

* After engineering evaluation, UA-G3-Flex-W, is worst case, hence, is used at test report.



2.4. Description of Test System

Frequency Stability				
Equipment	Brand	Model	Length/Type	Power cord/Length/Type
POE	UBIQUITI	GP-V480-032G	N/A	N/A
RJ45 Cable	TE CONNECTIVITY	CAT5E	1.2m / NS	N/A
NFC Card Type 4	Tiananxin	RW Free ISO14443-4B	N/A	N/A
Radiated Emissions				
Equipment	Brand	Model	Length/Type	Power cord/Length/Type
POE	UBIQUITI	GP-V480-032G	N/A	N/A
RJ45 Cable	TE CONNECTIVITY	CAT5E	1.2m / NS	N/A
NFC Card Type 4	Tiananxin	RW Free ISO14443-4A	N/A	N/A
NFC Card Type 4	Tiananxin	RW Free ISO14443-4B	N/A	N/A
NFC Card Type 5	Tiananxin	Locked ISO15693	N/A	N/A
AC Power Line Conducted Emission				
Equipment	Brand	Model	Length/Type	Power cord/Length/Type
POE	UBIQUITI	GP-V480-032G	N/A	0.6m / NS
NFC Card Type 4	Tiananxin	RW Free ISO14443-4A	N/A	N/A
NFC Card Type 4	Tiananxin	RW Free ISO14443-4B	N/A	N/A
NFC Card Type 5	Tiananxin	Locked ISO15693	N/A	N/A
RJ45 Cable	TE CONNECTIVITY	CAT5E	1.2m / NS	N/A



2.5. General Information of Test

☒ Test Site	Cerpass Technology Corporation Test Laboratory Address: No.10, Ln. 2, Lianfu St., Luzhu Dist., Taoyuan City 33848, Taiwan (R.O.C.) Tel: +886-3-3226-888 Fax: +886-3-3226-881	
	FCC	TW1439, TW1079
	IC	4934E-1, 4934E-2
Frequency Range Investigated	Conducted: from 150kHz to 30 MHz Radiation: from 9 MHz to 1,000MHz	
Test Distance	The test distance of radiated emission from antenna to EUT is 3 M.	

Test Item	Test Site	Test Period	Environmental Conditions	Tested By
Frequency Stability	RFCON01-NK	2024/10/17	28°C / 43%	Leon Huang
Radiated Emissions	3M02-NK	2024/10/14	22.9°C / 46%	Park Chen
AC Power Line Conducted Emission	CON02-NK	2024/10/17	26.7°C / 56%	Eason Hsu

2.6. Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

Measurement Item	Uncertainty
Radiated Spurious Emission(9KHz~30MHz)	±3.5dB
Radiated Spurious Emission(30MHz~1GHz)	±5.1dB
20dB Bandwidth	±4.4%
Occupied Bandwidth	±4.5%
Frequency Stability	±0.23KHz



3. Test Equipment and Ancillaries Used for Tests

Test Item	Radiated Emissions				
Test Site	Semi Anechoic Room(3M02-NK)				
Instrument	Manufacturer	Model No	Serial No	Calibration Date	Valid Date
Bilog Antenna	Schwarzbeck	VULB9168	369	2024/02/19	2025/02/18
Active Loop Antenna	Schwarzbeck	FMZB 1513	414	2024/01/16	2025/01/15
EMI Receiver	ROHDE & SCHWARZ	ESR 7	101906	2024/05/13	2025/05/12
Preamplifier	EM Electronics corp.	EM330	60659	2024/02/17	2025/02/16
Cable-6m(9k~300M)	N/A	EMC5D-BM-BM-6	130606	2024/03/13	2025/03/12
Cable-3in1(30M-1G)	HARBOUR INDUSTRIES	LL142	CCE1315	2024/02/23	2025/02/22
E3	AUDIX	v8.2014-8-6	RK-000529	NA	NA

Test Item	Frequency Stability				
Test Site	RFCON01-NK				
Instrument	Manufacturer	Model No	Serial No	Calibration Date	Valid Date
EXA Signal Analyzer	KEYSIGHT	N9010A	MY54200207	2024/04/24	2025/04/23
TEMP & HUMI CHAMBER	T-MACHINE	TMJ-9712	T-12-040111	2024/07/30	2025/07/29

Test Item	AC Power Line Conducted Emission				
Test Site	CON02-NK				
Instrument	Manufacturer	Model No	Serial No	Calibration Date	Valid Date
EMI Receiver	ROHDE & SCHWARZ	ESR 7	101906	2024/05/13	2025/05/12
Cable-4m(9k-3G)	EMEC	RG-223	18274M	2024/08/08	2025/08/07
Two-Line V-Network	ROHDE & SCHWARZ	ENV216	102185	2024/08/27	2025/08/26
E3	AUDIX	v8.2014-8-6	RK-000531	NA	NA



4. Antenna Requirements

4.1. Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, 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.

And according to FCC 47 CFR Section 15.249, if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

4.2. Antenna Construction and Directional Gain

Antenna Type	Loop Antenna
Antenna Gain	0 dBi



5. Test of AC Power Line Conducted Emission

5.1. Test Limit

Conducted Emissions were measured from 150 kHz to 30 MHz with a bandwidth of 9 KHz, according to the methods defined in ANSI C63.10-2013. The EUT was placed on a nonmetallic stand in a shielded room 0.8 meters above the ground plane. The interface cables and equipment positioning were varied within limits of reasonable applications to determine the position produced maximum conducted emissions.

Frequency (MHz)	Quasi Peak (dB μ V)	Average (dB μ V)
0.15 – 0.5	66-56*	56-46*
0.5 – 5.0	56	46
5.0 – 30.0	60	50

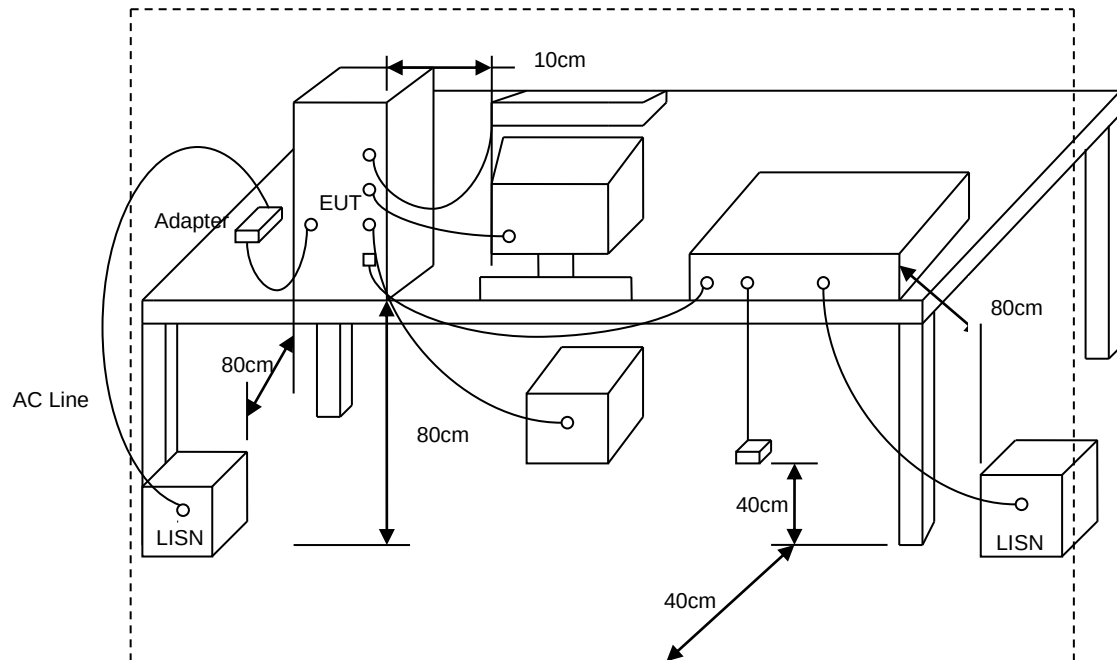
*Decreases with the logarithm of the frequency.

5.2. Test Procedures

- The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- Connect EUT to the power mains through a line impedance stabilization network (LISN).
- All the support units are connecting to the other LISN.
- The LISN provides 50 ohm coupling impedance for the measuring instrument.
- The FCC states that a 50 ohm, 50 micro-Henry LISN should be used.
- Both sides of AC line were checked for maximum conducted interference.
- The frequency range from 150 kHz to 30 MHz was searched.
- Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.



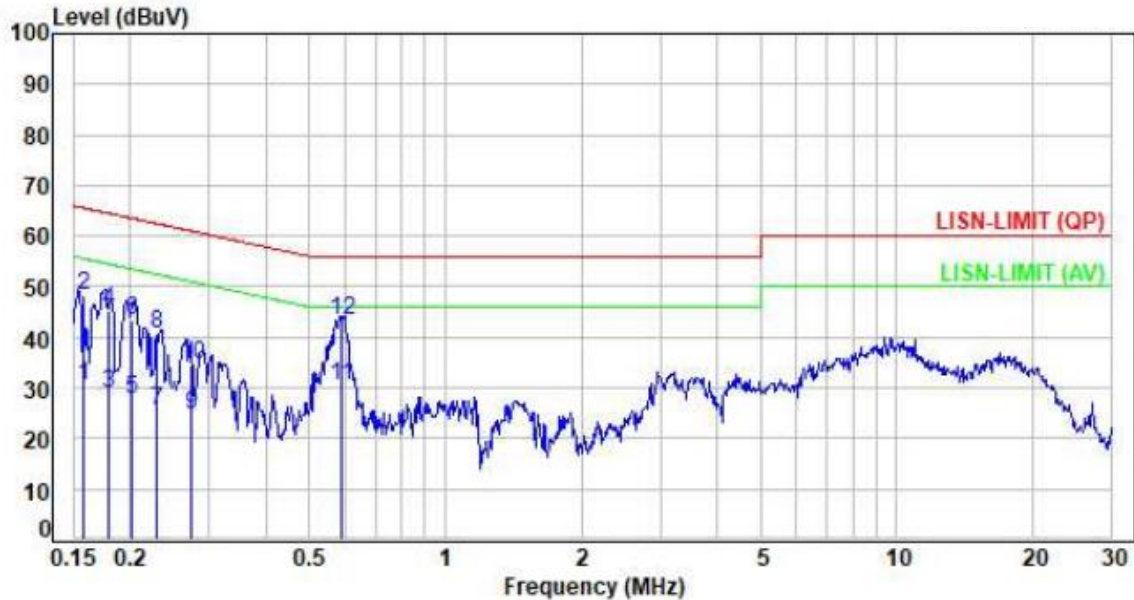
5.3. Typical Test Setup





5.4. Test Result and Data

Power	: AC 120V / 60Hz	Pol/Phase	: LINE
Test Mode	: Mode 1		:

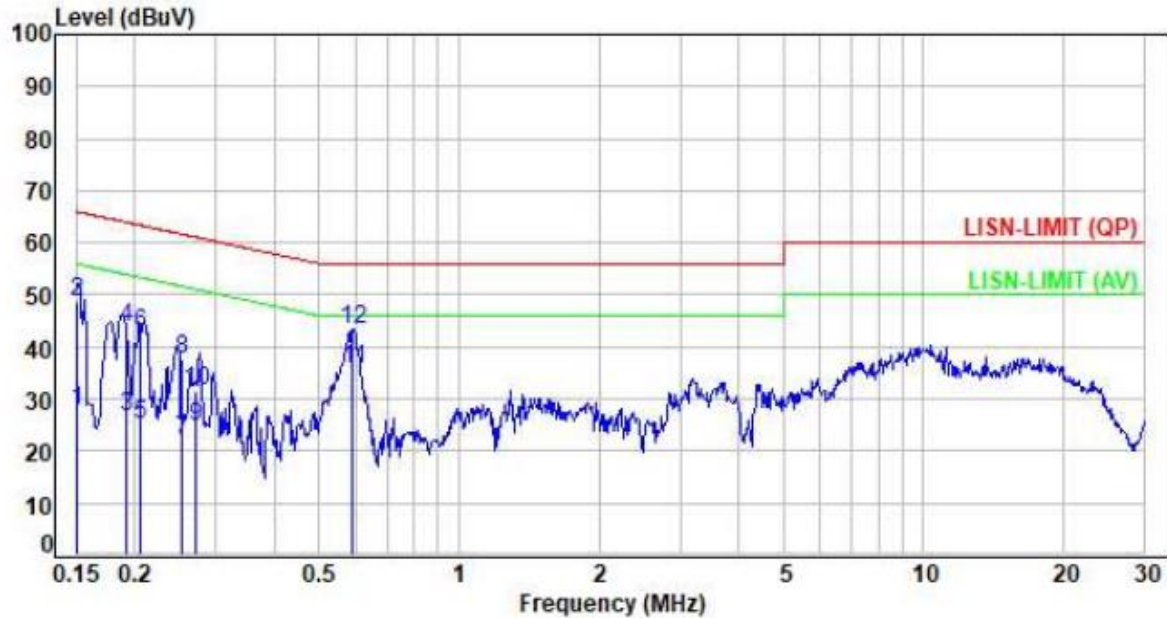


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1581	9.63	20.95	30.58	55.56	-24.98	Average	P
2	0.1581	9.63	38.78	48.41	65.56	-17.15	QP	P
3	0.1797	9.63	19.33	28.96	54.50	-25.54	Average	P
4	0.1797	9.63	35.66	45.29	64.50	-19.21	QP	P
5	0.2018	9.63	18.29	27.92	53.54	-25.62	Average	P
6	0.2018	9.63	33.78	43.41	63.54	-20.13	QP	P
7	0.2297	9.63	16.02	25.65	52.46	-26.81	Average	P
8	0.2297	9.63	31.23	40.86	62.46	-21.60	QP	P
9	0.2726	9.63	15.01	24.64	51.04	-26.40	Average	P
10	0.2726	9.63	25.01	34.64	61.04	-26.40	QP	P
11	0.5865	9.65	20.81	30.46	46.00	-15.54	Average	P
12	0.5865	9.65	33.80	43.45	56.00	-12.55	QP	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=(LISN or ISN or Current Probe)Factor + Cable Loss



Power	: AC 120V / 60Hz	Pol/Phase	: NEUTRAL
Test Mode	: Mode 1		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1505	9.61	18.34	27.95	55.97	-28.02	Average	P
2	0.1505	9.61	39.18	48.79	65.97	-17.18	QP	P
3	0.1919	9.61	16.84	26.45	53.95	-27.50	Average	P
4	0.1919	9.61	34.29	43.90	63.95	-20.05	QP	P
5	0.2053	9.61	15.55	25.16	53.39	-28.23	Average	P
6	0.2053	9.61	32.90	42.51	63.39	-20.88	QP	P
7	0.2534	9.61	12.28	21.89	51.65	-29.76	Average	P
8	0.2534	9.61	27.99	37.60	61.65	-24.05	QP	P
9	0.2706	9.61	15.00	24.61	51.10	-26.49	Average	P
10	0.2706	9.61	22.00	31.61	61.10	-29.49	QP	P
11	0.5901	9.62	26.12	35.74	46.00	-10.26	Average	P
12	0.5901	9.62	33.56	43.18	56.00	-12.82	QP	P

Note: Level=Reading+Factor

Margin=Level-Limit

Factor=(LISN or ISN or Current Probe)Factor + Cable Loss



6. Test of Radiated Emission

6.1. Test Limit

- (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.
- (d) The field strength of any emissions appearing outside of the 13.110-14.010 MHz band shall not exceed the general radiated emission limits in §15.209.

Frequency (MHz)	Distance	Limit (μV/ m)
0.09 ~ 0.490	300m	2400/F(kHz)
0.490 ~ 1.705	30m	24000/ F(kHz)
1.705 ~ 30	30m	30
30 ~ 88	3m	100
88 ~ 216	3m	150
216 ~ 960	3m	200
Above 960	3m	500

15.215 Additional provisions to the general radiated emission limitations.:

- (c) Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.



6.2. Test Procedures

- a. The EUT was placed on a rotatable table top 0.8 meter above ground.
- b. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
- c. The table was rotated 360 degrees to determine the position of the highest radiation.
- d. The antenna is a broadband antenna and its height is varied between one meter and four meters above ground to find the maximum value of the field strength both horizontal polarization and vertical polarization of the antenna are set to make the measurement.
- e. For each suspected emission the EUT was arranged to its worst case and then tune the antenna tower (from 1 M to 4 M) and turn table (from 0 degree to 360 degrees) to find the maximum reading.
- f. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function and specified bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method and reported.
- h. "Cone of radiation" has been considered to be 3dB beamwidth of the measurement antenna.

NOTE:

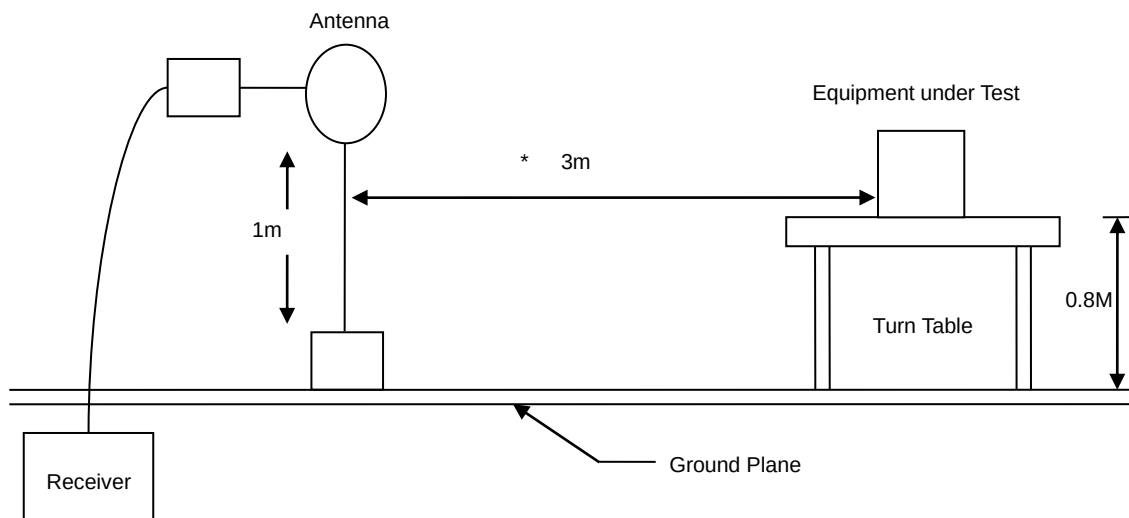
1. The resolution bandwidth of test receiver/spectrum analyzer is 300Hz or CISPS 200Hz(QP detector) at frequency Below 150 kHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 10KHz or CISPS 9KHz(QP detector) at frequency 150 kHz to 30 MHz.
3. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.

Note: The supporting fixture shall permit orientation of the EUT in each of three orthogonal axis positions such that emissions from the EUT are maximized.

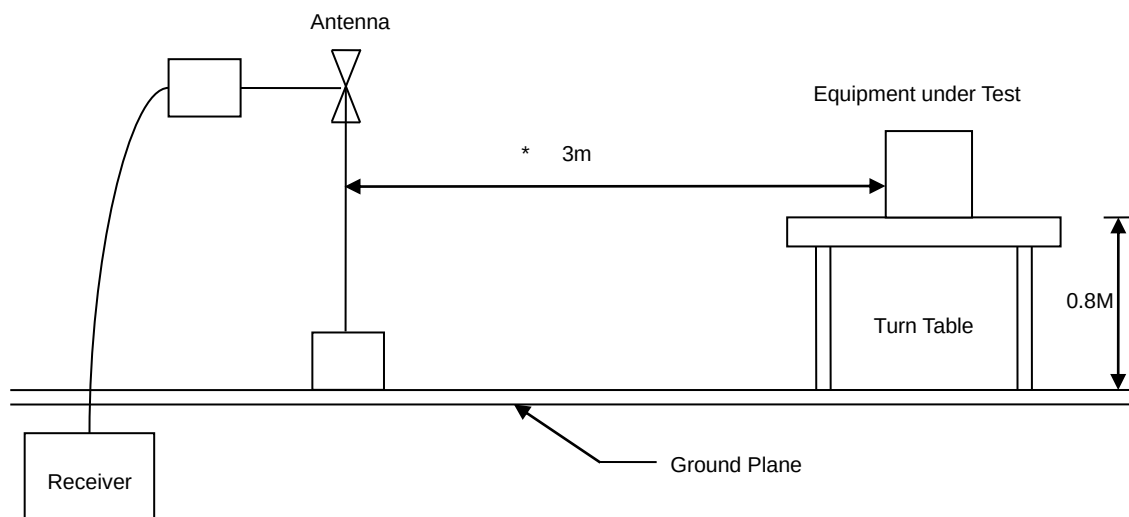


6.3. Typical Test Setup Layout of Radiated Emission

Below 30MHz test setup



30MHz- 1GHz Test Setup

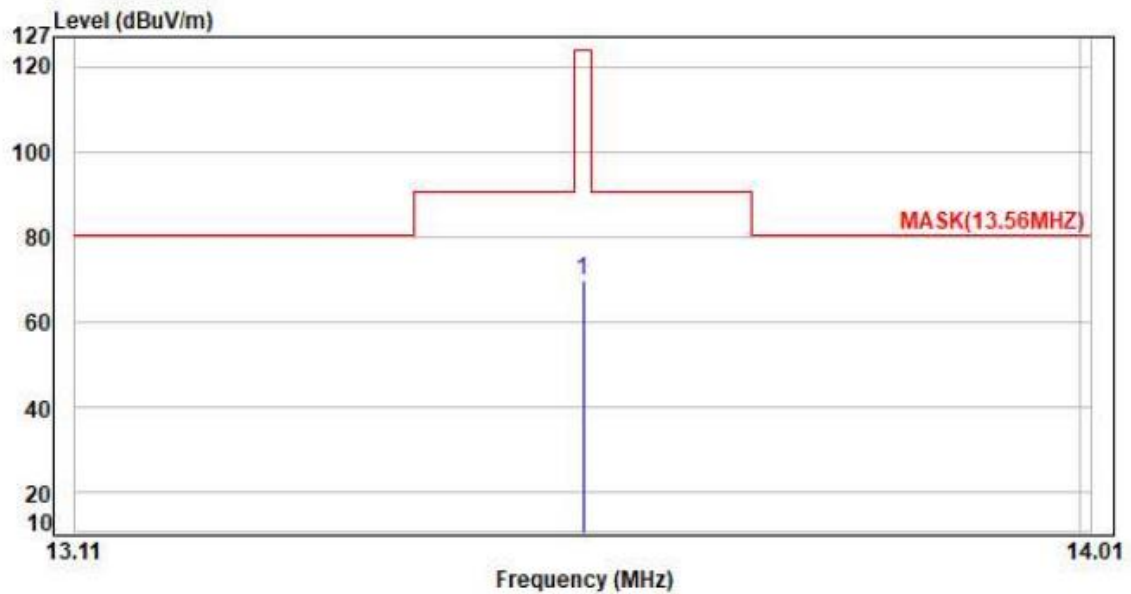




6.4. Test Result and Data

6.4.1. Test Result of Fundamental Emission

Power	:	AC 120V / 60Hz	Pol/Phase	:	OPEN
Test Mode	:	Mode 1		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	13.5600	21.198	48.280	69.478	124.000	-54.522		0	0	P

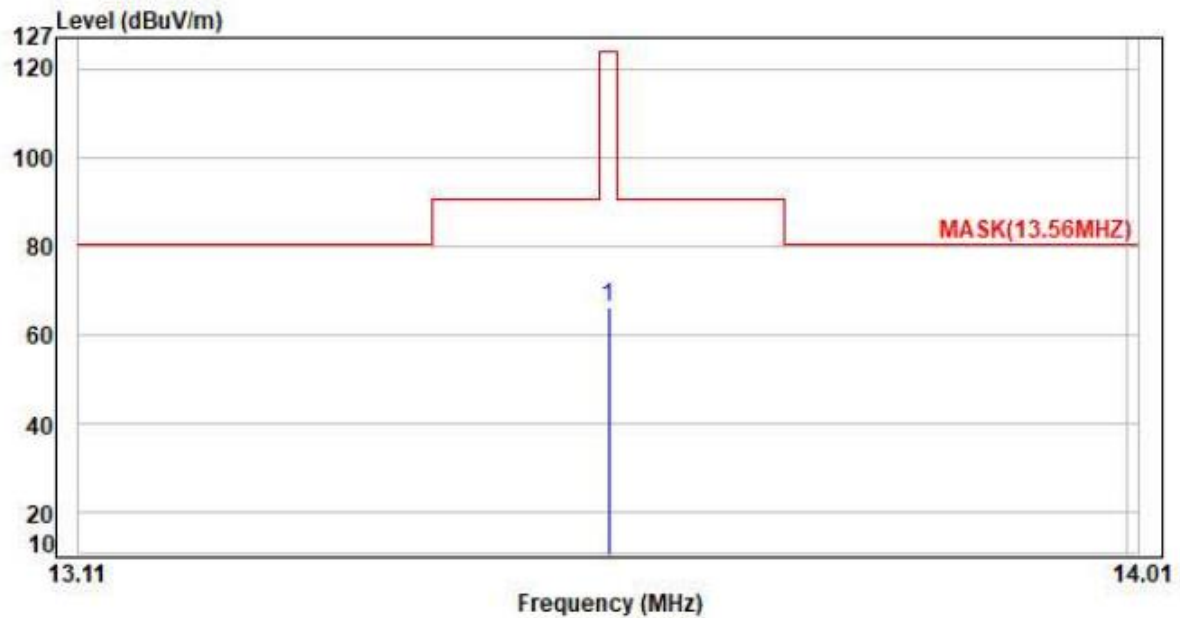
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: CLOSE
Test Mode	: Mode 1		



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	13.5600	21.198	45.070	66.268	124.000	-57.732		0	0	P

Note: Level=Reading+Factor

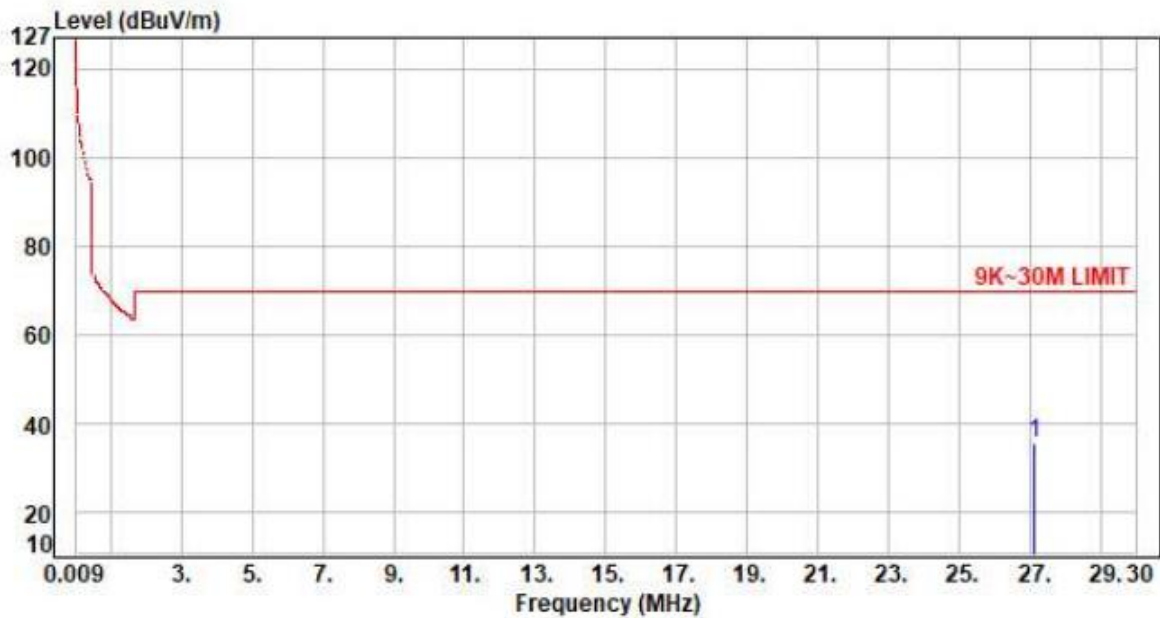
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



6.4.2. Test Result of Unwanted Spurious emission (9KHz ~ 30MHz)

Power	:	AC 120V / 60Hz	Pol/Phase	:	OPEN
Test Mode	:	Mode 3		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	27.1200	22.796	12.570	35.366	69.540	-34.174		0	0	P

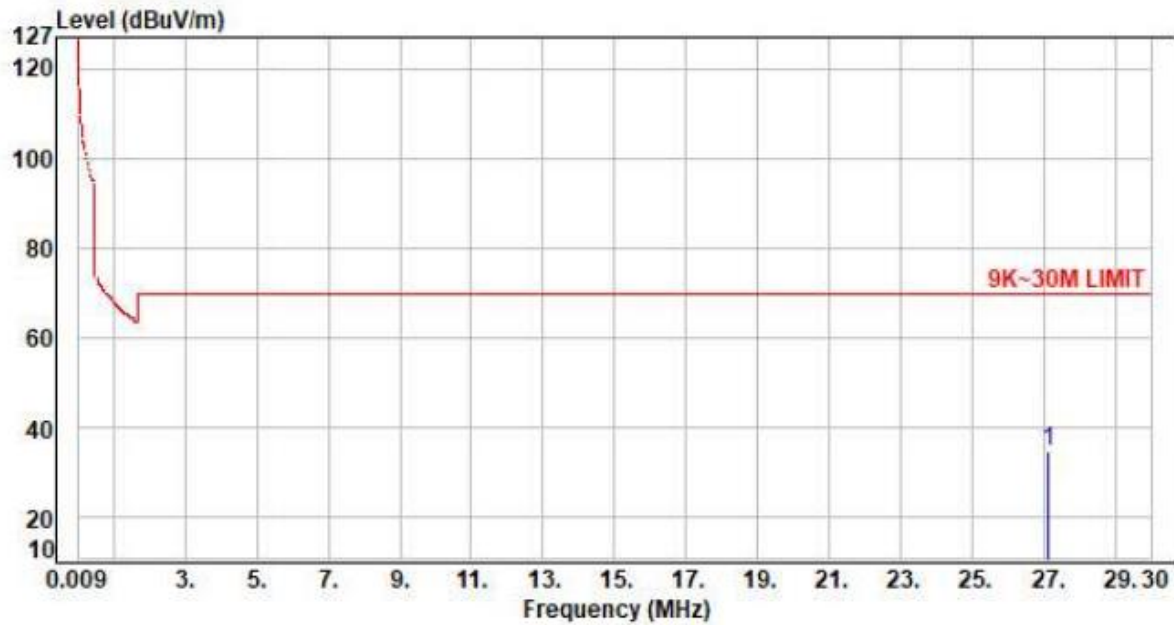
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: CLOSE
Test Mode	: Mode 3		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	27.1200	22.796	11.890	34.686	69.540	-34.854		0	0	P

Note: Level=Reading+Factor

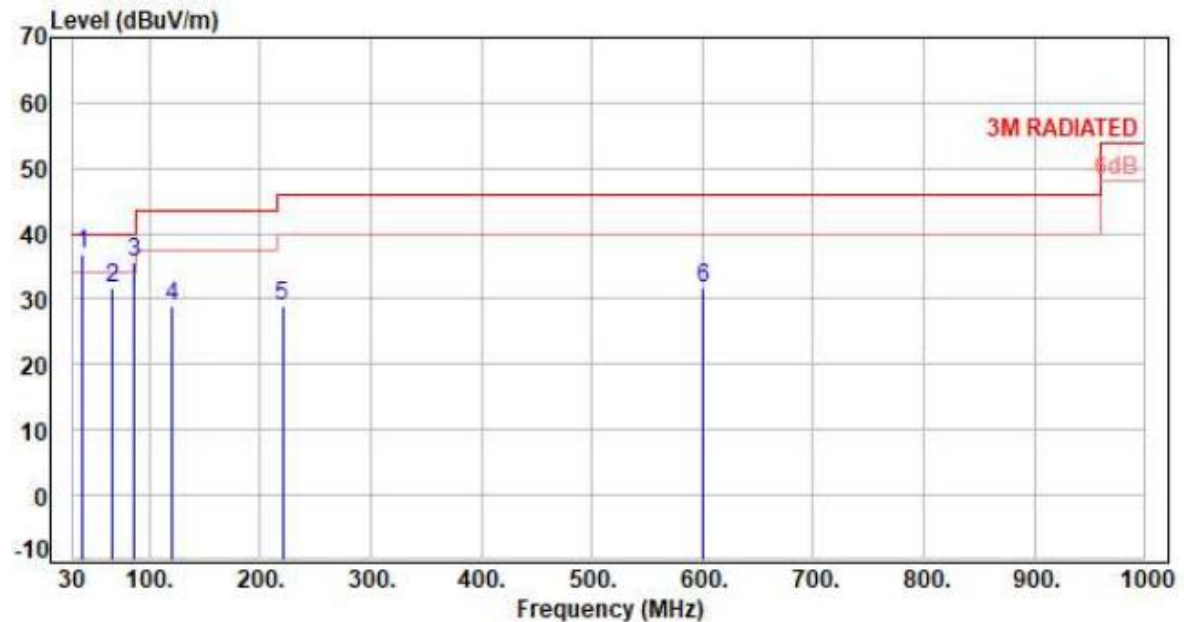
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



6.4.3. Test Result of Unwanted Spurious emission (30GHz ~ 1GHz)

Power	:	AC 120V / 60Hz	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 1		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	39.70	-9.84	46.73	36.89	40.00	-3.11	Peak	400	360	P
2	66.86	-10.99	42.66	31.67	40.00	-8.33	Peak	400	360	P
3	86.26	-15.85	51.58	35.73	40.00	-4.27	Peak	400	360	P
4	121.18	-12.16	41.13	28.97	43.50	-14.53	Peak	400	360	P
5	220.12	-11.89	40.77	28.88	46.00	-17.12	Peak	400	360	P
6	600.36	-0.75	32.48	31.73	46.00	-14.27	Peak	400	360	P

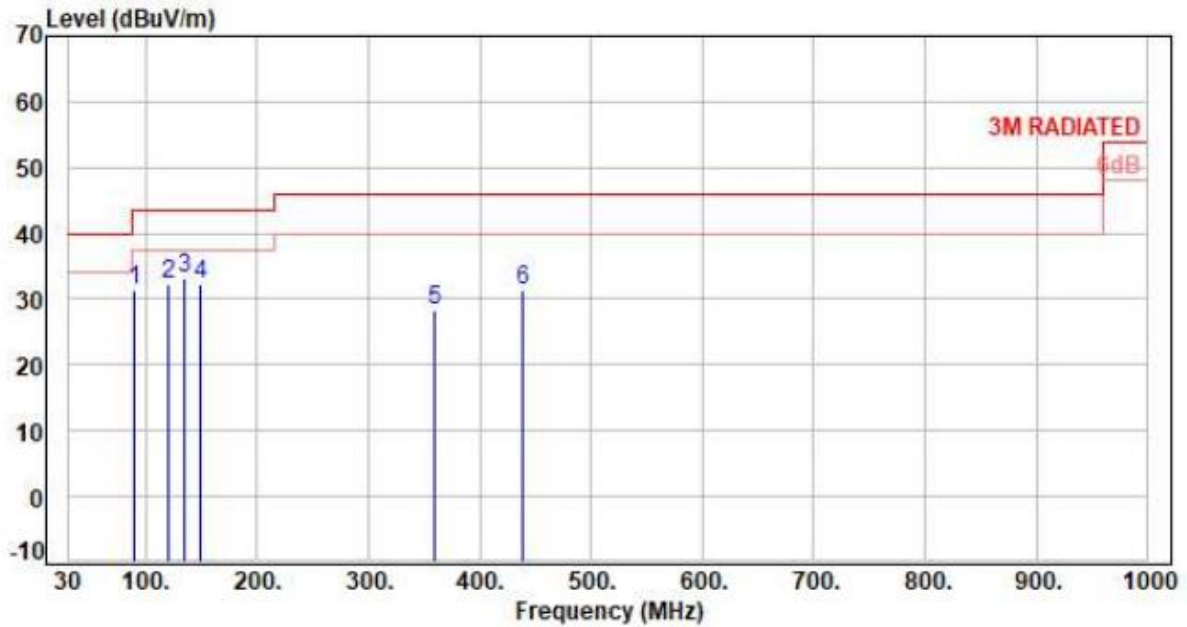
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 1		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	89.17	-16.02	47.48	31.46	43.50	-12.04	Peak	400	360	P
2	121.18	-12.16	44.52	32.36	43.50	-11.14	Peak	400	360	P
3	134.76	-10.61	43.87	33.26	43.50	-10.24	Peak	400	360	P
4	148.34	-9.57	41.76	32.19	43.50	-11.31	Peak	400	360	P
5	359.80	-6.94	35.24	28.30	46.00	-17.70	Peak	400	360	P
6	439.34	-4.64	35.87	31.23	46.00	-14.77	Peak	400	360	P

Note: Level=Reading+Factor

Margin=Level-Limit

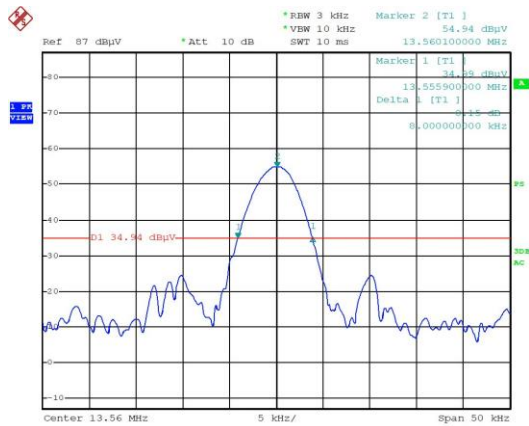
Factor=Antenna Factor + cable loss - Amplifier Factor



6.5. 20dB Bandwidth

Modulation Mode	Freq. (MHz)	20dB Bandwidth (kHz)	F _L at 20dB BW (MHz)	F _H at 20dB BW (MHz)
RFID	13.56	8	13.5559	13.5639
Limit		N/A	13.553	13.567
Result		Pass		

20dB Bandwidth
13.56 MHz





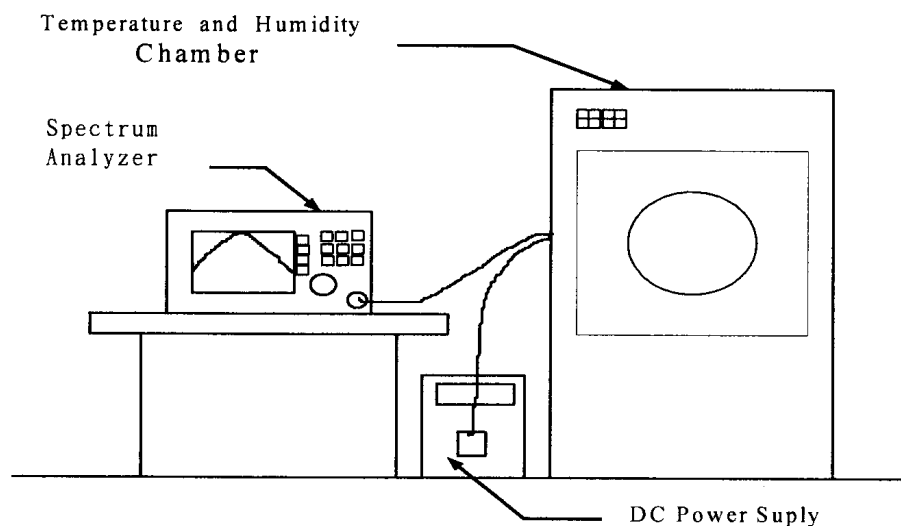
7. Frequency Stability

7.1. Test Procedure

According to the methods defined in ANSI C63.10-2013 Section 6.8

1. The EUT was placed inside the Temperature and Humidity chamber.
2. The transmitter output was connected to spectrum analyzer.
3. Turn the EUT on and couple its output to a spectrum analyzer.
4. Turn the EUT off and set the chamber to the highest temperature specified.
5. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2, 5, and 10 minutes.
6. Repeat step 2 and 3 with the temperature chamber set to the lowest temperature.
7. The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.

7.2. Test Setup Layout





7.3. Test Result and Data

Operating frequency: 13.56 MHz									
Temp (°C)	Power supply (V)	0 minute		2 minute		5 minute		10 minute	
		(MHz)	(%)	(MHz)	(%)	(MHz)	(%)	(MHz)	(%)
50	102	13.5599	-0.000442	13.5600	-0.000369	13.5600	-0.000295	13.5600	-0.000295
	120	13.5600	-0.000369	13.5600	-0.000295	13.5600	-0.000369	13.5600	-0.000221
	138	13.5599	-0.000442	13.5600	-0.000369	13.5600	-0.000369	13.5600	-0.000221
40	102	13.5599	-0.000516	13.5599	-0.000590	13.5599	-0.000516	13.5599	-0.000442
	120	13.5599	-0.000442	13.5599	-0.000516	13.5599	-0.000442	13.5600	-0.000369
	138	13.5599	-0.000590	13.5599	-0.000516	13.5599	-0.000516	13.5599	-0.000590
30	102	13.5599	-0.000516	13.5599	-0.000442	13.5600	-0.000369	13.5599	-0.000737
	120	13.5600	-0.000369	13.5600	-0.000369	13.5600	-0.000369	13.5600	-0.000369
	138	13.5599	-0.000516	13.5600	-0.000369	13.5599	-0.000516	13.5599	-0.000516
20	102	13.5600	-0.000147	13.5599	-0.000811	13.5600	-0.000369	13.5600	-0.000295
	120	13.5600	-0.000221	13.5600	0.000000	13.5600	-0.000295	13.5600	-0.000369
	138	13.5600	-0.000221	13.5600	-0.000295	13.5600	-0.000369	13.5599	-0.000442
10	102	13.5600	0.000147	13.5600	0.000074	13.5600	0.000000	13.5600	-0.000147
	120	13.5600	0.000147	13.5600	0.000074	13.5600	0.000074	13.5600	-0.000147
	138	13.5600	0.000147	13.5600	0.000074	13.5600	0.000000	13.5600	-0.000074
0	102	13.5601	0.000369	13.5600	0.000147	13.5600	0.000295	13.5600	0.000221
	120	13.5601	0.000369	13.5600	0.000295	13.5600	0.000295	13.5600	0.000221
	138	13.5600	0.000295	13.5600	0.000295	13.5600	0.000295	13.5600	0.000221
-10	102	13.5601	0.000516	13.5601	0.000516	13.5601	0.000442	13.5601	0.000442
	120	13.5601	0.000516	13.5600	0.000221	13.5601	0.000516	13.5601	0.000442
	138	13.5601	0.000369	13.5601	0.000737	13.5601	0.000516	13.5601	0.000442
-20	102	13.5600	0.000295	13.5601	0.000369	13.5600	0.000295	13.5601	0.000516
	120	13.5601	0.000369	13.5601	0.000442	13.5601	0.000516	13.5601	0.000516
	138	13.5600	0.000295	13.5601	0.000442	13.5601	0.000516	13.5601	0.000516
-30	102	13.5601	0.000959	13.5601	0.000590	13.5601	0.000811	13.5601	0.000664
	120	13.5601	0.001032	13.5601	0.000885	13.5601	0.000737	13.5600	0.000000
	138	13.5601	0.000959	13.5601	0.000885	13.5601	0.000811	13.5601	0.000664