

FCC Test Report

Report No.: AGC06691200301FE01

FCC ID : 2ARU9PAN001

APPLICATION PURPOSE : Original Equipment

PRODUCT DESIGNATION: TABLET PC

BRAND NAME : HOMA

MODEL NAME : HM-PAN-110

CLIENT : Homa Technologies JSC

DATE OF ISSUE : Apr. 18, 2020

STANDARD(S) : FCC Part 15.247

REPORT VERSION : V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd

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Page 2 of 49

REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	9 1	Apr. 18, 2020	Valid	Initial Release

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Page 3 of 49

TABLE OF CONTENTS

1. VERIFICATION OF COMPLIANCE	
2.GENERAL INFORMATION	6
2.1PRODUCT DESCRIPTION	6
2.2. TABLE OF CARRIER FREQUENCYS	
2.3 RELATED SUBMITTAL(S)/GRANT(S)	
2.4TEST METHODOLOGY	
2.5 SPECIAL ACCESSORIES	
2.6 EQUIPMENT MODIFICATIONS	
3. MEASUREMENT UNCERTAINTY	8
4. DESCRIPTION OF TEST MODES	g
5. SYSTEM TEST CONFIGURATION	10
5.1 CONFIGURATION OF TESTED SYSTEM	10
5.2 EQUIPMENT USED IN TESTED SYSTEM	10
5.3. SUMMARY OF TEST RESULTS	
6. TEST FACILITY	11
7. PEAK OUTPUT POWER	12
7.1. MEASUREMENT PROCEDURE	12
7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	12
7.3. LIMITS AND MEASUREMENT RESULT	13
8. 6 DB BANDWIDTH	15
8.1. MEASUREMENT PROCEDURE	15
8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	
8.3. LIMITS AND MEASUREMENT RESULTS	15
9. CONDUCTED SPURIOUS EMISSION	
9.1. MEASUREMENT PROCEDURE	17
9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	
9.3. MEASUREMENT EQUIPMENT USED	17
9.4. LIMITS AND MEASUREMENT RESULT	17
10. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY	22

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Page 4 of 49

10.1 MEASUREMENT PROCEDURE	22
10.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	22
10.3 MEASUREMENT EQUIPMENT USED	
10.4 LIMITS AND MEASUREMENT RESULT	22
11. RADIATED EMISSION	24
11.1. MEASUREMENT PROCEDURE	24
11.2. TEST SETUP	
11.3. LIMITS AND MEASUREMENT RESULT	26
11.4. TEST RESULT	26
12. FCC LINE CONDUCTED EMISSION TEST	36
12.1. LIMITS OF LINE CONDUCTED EMISSION TEST	36
12.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST	36
12.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST	37
12.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST	37
12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST	38
APPENDIX A: PHOTOGRAPHS OF TEST SETUP	40
APPENDIX B. PHOTOGRAPHS OF FUT	® 42

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Page 5 of 49

1. VERIFICATION OF COMPLIANCE

Applicant	Homa Technologies JSC			
Address	Building 5, 13th Street, QTSC, Tan Chanh Hiep Ward, District12, Ho Chi Minh City, Vietnam			
Manufacturer	JIANGXI HONGYAODA COMMUNICATION LIMITED			
Address	NO.69, NORTH OF GOLD AVENUE, NORTH AREA OF HONGKONG INDUSTRIAL PARK, GANZHOU ECONOMIC AND TECHNOLOGICAL DEVELOPMENT ZONE, GANZHOU CITY, JIANGXI PROVINCE, CHINA			
Factory	JIANGXI HONGYAODA COMMUNICATION LIMITED			
Address	NO.69, NORTH OF GOLD AVENUE, NORTH AREA OF HONGKONG INDUSTRIAL PARK, GANZHOU ECONOMIC AND TECHNOLOGICAL DEVELOPMENT ZONE, GANZHOU CITY, JIANGXI PROVINCE, CHINA			
Product Designation	TABLET PC			
Brand Name	НОМА			
Test Model	HM-PAN-110			
Date of test	Mar. 24, 2020 to Apr. 18, 2020			
Deviation	No any deviation from the test method			
Condition of Test Sample	Normal			
Test Result	Pass			
Report Template AGCRT-US-BLE/RF				

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC part 15.247.

Reviewed By

NiNi Guo
(Project Engineer)

Max Zhang
(Reviewer)

Apr. 18, 2020

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Page 6 of 49

2.GENERAL INFORMATION

2.1PRODUCT DESCRIPTION

The EUT is designed as a "TABLET PC". It is designed by way of utilizing the GFSK technology to achieve the system operation.

A major technical description of EUT is described as following

Operation Frequency 2.402 GHz to 2.480GHz		
RF Output Power	4.221dBm(Max)	
Bluetooth Version	V 4.2	
Modulation	BR □GFSK, EDR □π /4-DQPSK, □8DPSK BLE □GFSK 1Mbps □GFSK 2Mbps	
Number of channels	40 Channel	
Antenna Designation	Integral antenna(Comply with requirements of the FCC part 15.203)	
Antenna Gain	0dBi	
Hardware Version	UX1.1	
Software Version	PF125UX.P0.V10.32.HYD-V05.8788_7249	
Power Supply DC 5V by adapter or DC 3.7V by battery		

2.2. TABLE OF CARRIER FREQUENCYS

Frequency Band	Channel Number	Frequency
100	0	2402MHZ
0	9	2404MHZ
2400~2483.5MHZ	· : : O	C S F
	38	2478 MHZ
	39	2480 MHZ

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Page 7 of 49

2.3 RELATED SUBMITTAL(S)/GRANT(S)

This submittal(s) (test report) is intended for **FCC ID: 2ARU9PAN001** filing to comply with the FCC Part 15.247 requirements.

2.4TEST METHODOLOGY

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10 (2013). Radiated testing was performed at an antenna to EUT distance 3 meters.

2.5 SPECIAL ACCESSORIES

Refer to section 2.2.

2.6 EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

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Page 8 of 49

3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y ±U, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%.

- Uncertainty of Conducted Emission, Uc = ±3.2 dB
- Uncertainty of Radiated Emission below 1GHz, Uc = ±3.9 dB
- Uncertainty of Radiated Emission above 1GHz, Uc = ±4.8 dB
- Uncertainty of total RF power, conducted, Uc = ±0.8dB
- Uncertainty of RF power density, conducted, Uc = ±2.6dB
- Uncertainty of spurious emissions, conducted, Uc = ±2.7dB
- Uncertainty of Occupied Channel Bandwidth: Uc = ±2 %

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Page 9 of 49

4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION			
1	Low channel TX			
2	Middle channel TX			
3	High channel TX			

Note:

- 1. Only the result of the worst case was recorded in the report, if no other cases.
- 2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.
- 3. For Conducted Test method, a temporary antenna connector is provided by the manufacture.
- 4. The test software is the engineering mode apk which can set the EUT into the individual test modes.

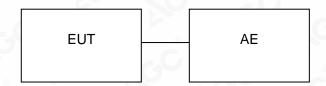
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Page 10 of 49

5. SYSTEM TEST CONFIGURATION

5.1 CONFIGURATION OF TESTED SYSTEM



5.2 EQUIPMENT USED IN TESTED SYSTEM

Item	Equipment Model No.		ID or Specification	Remark	
1	TABLET PC HM-PAN-110		2ARU9PAN001	EUT	
2	Adapter	GLY-G43UA-050200-629A	Input: AC100-240V, 50/6Hz, 0.3A Output:DC5V, 2A	AE	

5.3. SUMMARY OF TEST RESULTS

FCC RULES DESCRIPTION OF TEST		RESULT
15.247 (b)(3)	Peak Output Power	Compliant
15.247 (a)(2)	6 dB Bandwidth	Compliant
15.247 (d)	Conducted Spurious Emission	Compliant
15.247 (e)	Maximum Conducted Output Power Density	Compliant
15.209	Radiated Emission	Compliant
15.207	Conducted Emission	Compliant

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Page 11 of 49

6. TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd			
Location 1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Commun Fuhai Street, Bao'an District, Shenzhen, Guangdong, China				
Designation Number	CN1259			
FCC Test Firm Registration Number	975832			
A2LA Cert. No.	5054.02			
Description	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by A2LA			

TEST EQUIPMENT OF CONDUCTED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	101206	Jun. 12, 2019	Jun. 11, 2020
LISN	R&S	ESH2-Z5	100086	Aug. 26, 2019	Aug. 25, 2020
Test software	R&S	ES-K1(Ver.V1.71)	N/A	N/A	N/A

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	Jun. 12, 2019	Jun. 26, 2020
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec. 12, 2019	Dec. 11, 2020
2.4GHz Fliter	EM Electronics	2400-2500MHz	N/A	Feb. 26, 2020	Feb. 25, 2021
Attenuator	ZHINAN	E-002	N/A	Aug. 26, 2019	Aug. 25, 2020
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep. 09, 2019	Sep. 08, 2021
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	Jun. 14, 2018	Jun. 13, 2020
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May. 26, 2018	May. 25, 2020
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Oct. 15, 2019	Oct. 14, 2020
ANTENNA	SCHWARZBECK	VULB9168	494	Jan. 09, 2019	Jan. 08, 2021
Test software	Tonscend	JS32-RE (Ver.2.5)	N/A	N/A	N/A

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Page 12 of 49

7. PEAK OUTPUT POWER

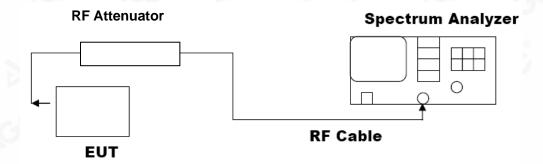
7.1. MEASUREMENT PROCEDURE

For peak power test:

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. RBW≥DTS bandwidth
- 3. VBW≥3*RBW.
- 4. SPAN≥VBW.
- 5. Sweep: Auto.
- 6. Detector function: Peak.
- 7. Trace: Max hold.

Allow trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power, after any corrections for external attenuators and cables.

7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION) PEAK POWER TEST SETUP



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Page 13 of 49

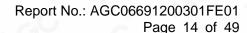
7.3. LIMITS AND MEASUREMENT RESULT

PEAK OUTPUT POWER MEASUREMENT RESULT									
FOR GFSK MOUDULATION									
Frequency (GHz) Peak Power Applicable Limits (dBm) Pass or F									
2.402	0.911	30	Pass						
2.440	3.986	30	Pass						
2.480	4.221	30	Pass						

CH₀



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Page 15 of 49

8. 6 DB BANDWIDTH

8.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set SPA Centre Frequency = Operation Frequency, RBW= 100 KHz, VBW≥3×RBW.
- 4. Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to ANSI C63.10 for compliance to FCC PART 15.247 requirements.

8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 7.2.

8.3. LIMITS AND MEASUREMENT RESULTS

LIMITS AND MEASUREMENT RESULT							
A	Applicable Limits						
Applicable Limits	Test Data (kHz)		Criteria				
0	Low Channel	672.8	PASS				
>500KHZ	Middle Channel	673.5	PASS				
	High Channel	673.6	PASS				

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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Page 17 of 49

9. CONDUCTED SPURIOUS EMISSION

9.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2, Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to ANSI C63.10 for compliance to FCC PART 15.247 requirements.

9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 7.2.

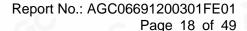
9.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6.

9.4. LIMITS AND MEASUREMENT RESULT

LIMITS AND MEASUREMENT RESULT							
A	Measurement Res	sult					
Applicable Limits	Test Data	Criteria					
In any 100 KHz Bandwidth Outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produce by the intentional radiator shall be at least 20 dB below that in 100KHz bandwidth within the band that contains the highest level of the desired power.	At least -20dBc than the reference level	PASS PASS					

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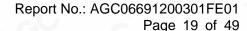
TEST RESULT FOR ENTIRE FREQUENCY RANGE

GFSK MODULATION IN LOW CHANNEL



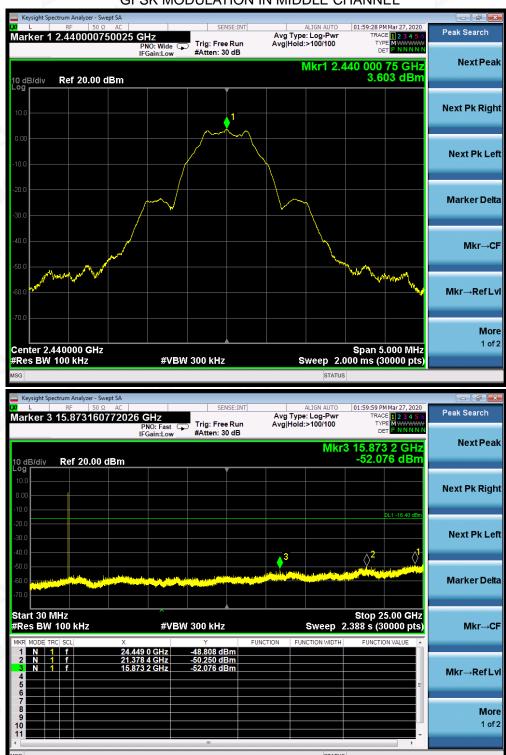
Compliance the Manager of the took results t Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the Dedicated Post not/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results to the test deemed any objections to report issued by AGC should be submitted to AGC within 15day after the issuence of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.

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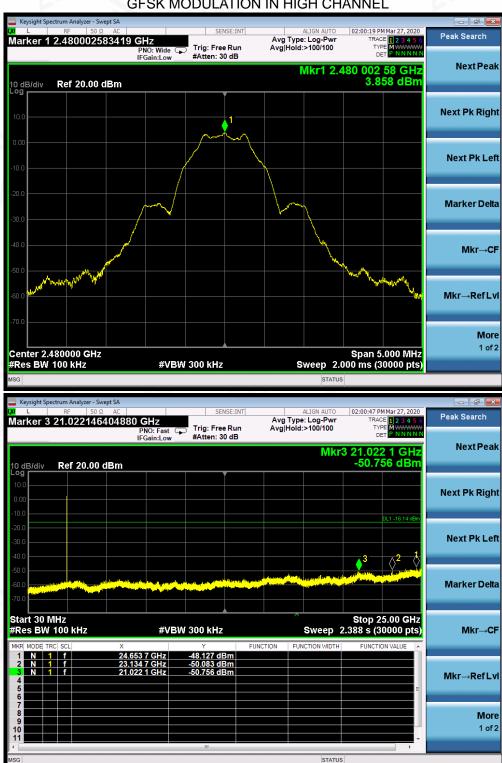
GFSK MODULATION IN MIDDLE CHANNEL



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GFSK MODULATION IN HIGH CHANNEL



Note: The peak emissions without marker on the above plots are fundamental wave and need not to compare with the limit.

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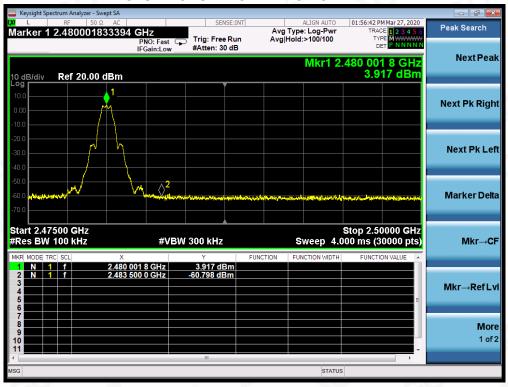


TEST RESULT FOR BAND EDGE

GFSK MODULATION IN LOW CHANNEL



GFSK MODULATION IN HIGH CHANNEL



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Page 22 of 49

10. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY

10.1 MEASUREMENT PROCEDURE

- (1). Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- (2). Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- (3). Set SPA Trace 1 Max hold, then View.

Note: The method of PKPSD in the KDB 558074 item 10.2 was used in this testing.

10.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

Refer To Section 7.2.

10.3 MEASUREMENT EQUIPMENT USED

Refer To Section 6.

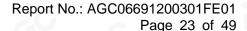
10.4 LIMITS AND MEASUREMENT RESULT

Channel No.	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result	
Low Channel	-13.635	8	Pass	
Middle Channel	-10.480	8	Pass	
High Channel	-10.194	8	Pass	

TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL



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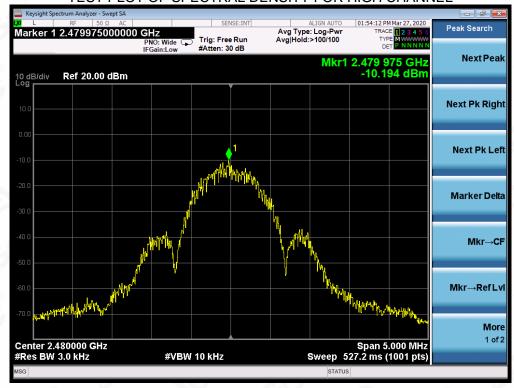




TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL



TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL



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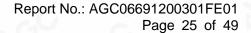
Page 24 of 49

11. RADIATED EMISSION

11.1. MEASUREMENT PROCEDURE

- 1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. For emissions above 1GHz, use 1MHz RBW and 3MHz VBW for peak reading. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- 7. 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 values.
- 8.If the emissions level of the EUT in peak mode was 3 dB lower than the average 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 for below 1GHz.
- 9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- 10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High Low scan is not required in this case.

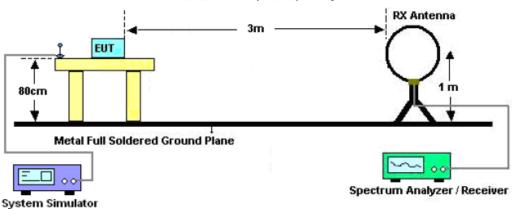
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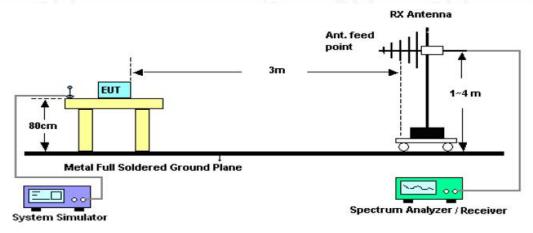


11.2. TEST SETUP

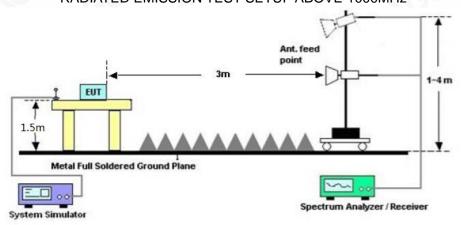
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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Page 26 of 49

/Inspection The test results

11.3. LIMITS AND MEASUREMENT RESULT

15.209 Limit in the below table has to be followed

Frequencies (MHz)	Field Strength (micorvolts/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: All modes were tested For restricted band radiated emission,

the test records reported below are the worst result compared to other modes.

11.4. TEST RESULT

RADIATED EMISSION BELOW 30MHZ

No emission found between lowest internal used/generated frequencies to 30MHz.

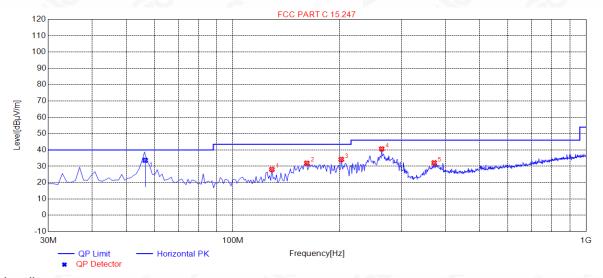
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Page 27 of 49

RADIATED EMISSION BELOW 1GHZ

EUT	TABLET PC	Model Name	HM-PAN-110
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal



Peak data list:

NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	128.9400	28.08	14.08	43.50	15.42	200	134	Horizontal
2	161.9200	31.92	14.75	43.50	11.58	200	112	Horizontal
3	202.6600	34.25	12.23	43.50	9.25	100	252	Horizontal
4	263.7700	40.66	14.88	46.00	5.34	100	108	Horizontal
5	371.4400	32.14	18.67	46.00	13.86	100	359	Horizontal

QP data list:

NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	56.4485	14.18	33.72	40.00	6.28	120	190	Horizontal

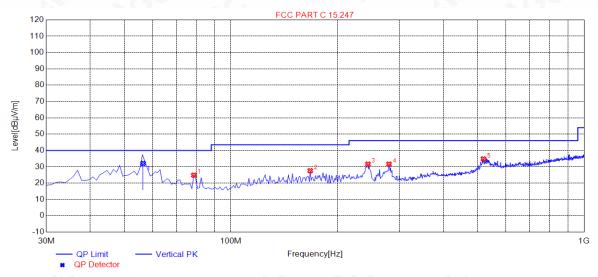
RESULT: PASS

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the Bedicated Psychological Psycholo



Page 28 of 49

EUT	TABLET PC	Model Name	HM-PAN-110
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical



Peak data list:

NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	78.5000	24.87	10.46	40.00	15.13	100	170	Vertical
2	167.7400	27.60	14.17	43.50	15.90	100	176	Vertical
3	244.3700	31.65	14.78	46.00	14.35	100	49	Vertical
4	280.2600	31.64	16.29	46.00	14.36	100	277	Vertical
5	518.8800	34.86	22.57	46.00	11.14	100	186	Vertical

QP data list:

NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	56.3990	14.18	32.10	40.00	7.90	180	190	Vertical

RESULT: PASS

Note:

- 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.
- 2. All test modes had been tested. The mode 1 is the worst case and recorded in the report.

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Page 29 of 49

RADIATED EMISSION ABOVE 1GHZ

EUT	TABLET PC	Model Name	HM-PAN-110
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	\/-t
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4804.000	45.36	0.08	45.44	74	-28.56	peak
4804.000	40.23	0.08	40.31	54	-13.69	AVG
7206.000	41.57	2.21	43.78	74	-30.22	peak
7206.000	36.29	2.21	38.5	54	-15.5	AVG
100		8				8
emark:		G .	8			-C
actor = Anter	na Factor + Cabl	e Loss – Pre-	amplifier.			

EUT	TABLET PC	Model Name	HM-PAN-110
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical

Frequency M (MHz)	eter Reading (dBµV)	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBu\/)	(AD)	(10.)(()			T Value IVDE
	(~PH *)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	10.00.750
4804.000	45.14	0.08	45.22	74	-28.78	peak
4804.000	39.23	0.08	39.31	54	-14.69	AVG
7206.000	40.27	2.21	42.48	74	-31.52	peak
7206.000	36.89	2.21	39.1	54	-14.9	AVG
			7.0			
temark:						3

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Page 30 of 49

EUT	TABLET PC	Model Name	HM-PAN-110
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Tee
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4880.000	44.35	0.14	44.49	74	-29.51	peak
4880.000	39.81	0.14	39.95	54	-14.05	AVG
7320.000	41.25	2.36	43.61	74	-30.39	peak
7320.000	36.01	2.36	38.37	54	-15.63	AVG
6	® 1			6	0	8
Remark:	0		8		10 ¹	- 6
actor = Anter	na Factor + Cable	Loss - Pre-	amplifier.			
· ·				·		

EUT	TABLET PC	Model Name	HM-PAN-110
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Tree
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4880.000	43.28	0.14	43.42	74	-30.58	peak
4880.000	38.16	0.14 ◎	38.3	54	-15.7	AVG
7320.000	39.64	2.36	42	74	-32	peak
7320.000	34.25	2.36	36.61	54	-17.39	AVG
				C	(8)	3
Remark:	6.0	· (©)		. G		8
-actor = Anter	nna Factor + Cable	e Loss – Pre-a	amplifier.			a. C.
8)		

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Page 31 of 49

EUT	TABLET PC	Model Name	HM-PAN-110
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	\/aliva Tima
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4960.000	43.26	0.22	43.48	74	-30.52	peak
4960.000	38.47	0.22	38.69	54	-15.31	AVG
7440.000	39.41	2.64	42.05	74	-31.95	peak
7440.000	33.22	2.64	35.86	54	-18.14	AVG
	®				©	
		®				8
Remark:		C	8			- 6
Factor = Anter	na Factor + Cabl	e Loss – Pre-	amplifier.			
			-C			

EUT	TABLET PC	Model Name	HM-PAN-110
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	V. C
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4960.000	43.21	0.22	43.43	74	-30.57	peak
4960.000	38.65	0.22	38.87	54	-15.13	AVG
7440.000	39.73	2.64	42.37	74	-31.63	peak
7440.000	34.42	2.64	37.06	54	-16.94	AVG
			7.0			
Remark:						3
actor = Anter	na Factor + Cable	e Loss – Pre-	amplifier.			©
		- 0	. 0			- 0

RESULT: PASS

Note

Other emissions from 1G to 25 GHz are considered as ambient noise. No recording in the test report.

Factor = Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

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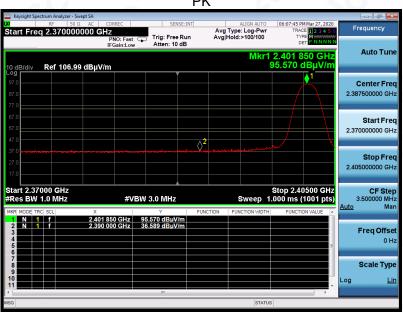
Page 32 of 49

GG. The test results ce of the test report.

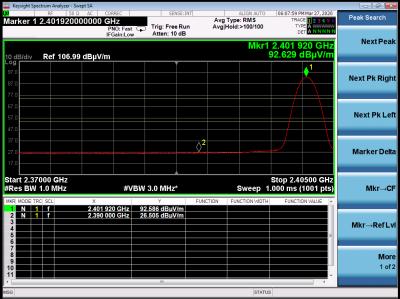
TEST RESULT FOR RESTRICTED BANDS REQUIREMENTS

EUT	TABLET PC	Model Name	HM-PAN-110
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal



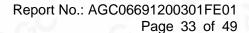






RESULT: PASS

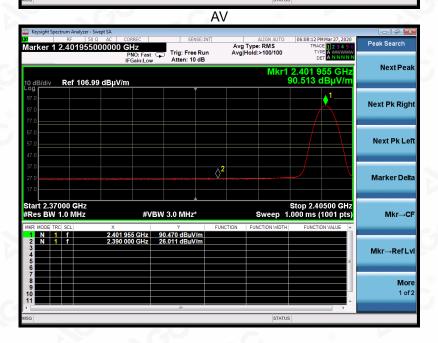
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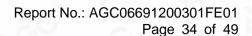
EUT	TABLET PC	Model Name	HM-PAN-110
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical





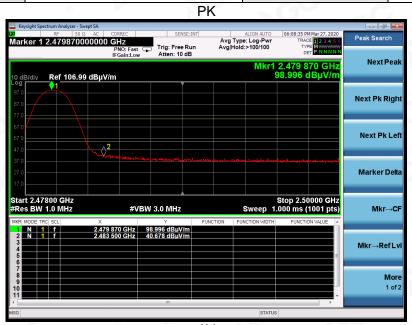
RESULT: PASS

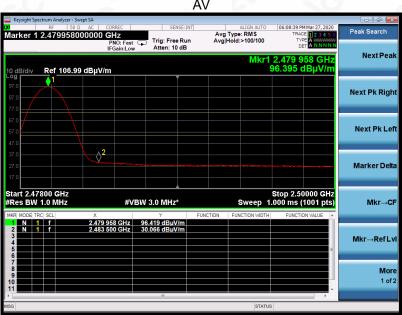
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TABLET PC **EUT Model Name** HM-PAN-110 25° C 55.4% **Temperature Relative Humidity Pressure** 960hPa **Test Voltage** Normal Voltage **Test Mode Antenna** Mode 3 Horizontal





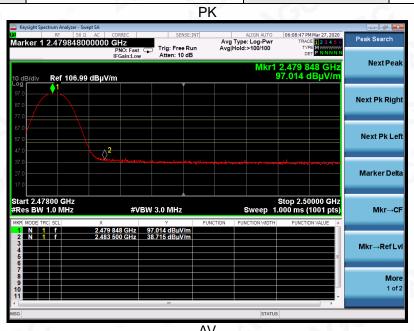
RESULT: PASS

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Page 35 of 49

EUT	TABLET PC	Model Name	HM-PAN-110
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical





RESULT: PASS

Note: The factor had been edited in the "Input Correction" of the Spectrum Analyzer. So the Amplitude of test plots is equal to Reading level plus the Factor in dB. Use the A dB(μ V) to represent the Amplitude. Use the F dB(μ V/m) to represent the Field Strength. So A=F.

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Page 36 of 49

/Inspection The test results

he test report.

12. FCC LINE CONDUCTED EMISSION TEST

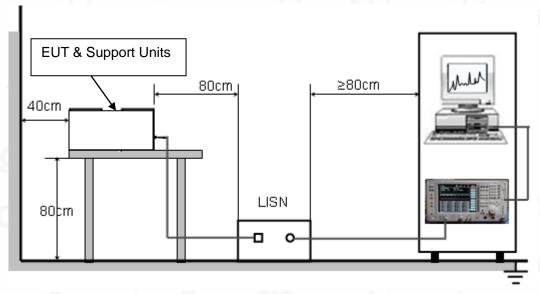
12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

F	Maximum RF Line Voltage					
Frequency	Q.P.(dBuV)	Average(dBuV)				
150kHz~500kHz	66-56	56-46				
500kHz~5MHz	56	46				
5MHz~30MHz	60	50				

Note:

- 1. The lower limit shall apply at the transition frequency.
- 2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

12.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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Page 37 of 49

12.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 2. Support equipment, if needed, was placed as per ANSI C63.10.
- 3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- 4. All support equipments received AC120V/60Hz power from a LISN, if any.
- 5. The EUT received DC 5V power from adapter which received AC120V/60Hz power from a LISN.
- 6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
- 8. During the above scans, the emissions were maximized by cable manipulation.
- 9. The test mode(s) were scanned during the preliminary test.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

12.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- 2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less –2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
- 3. The test data of the worst case condition(s) was reported on the Summary Data page.

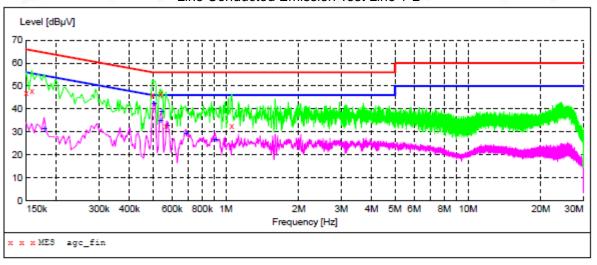
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Page 38 of 49

12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

Line Conducted Emission Test Line 1-L



MEASUREMENT RESULT: "agc fin"

2020/4/7 10:20 Frequency MHz		Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.150000	47.20	11.3	66	18.8	QP	L1	FLO
0.158000	47.90	11.3	66	17.7	QP	L1	FLO
0.498000	46.20	11.3	56	9.8	QP	L1	FLO
0.538000	46.70	11.3	56	9.3	QP	L1	FLO
0.566000	32.60	11.3	56	23.4	QP	Ll	FLO
1.058000	32.50	11.3	56	23.5	QP	Ll	FLO

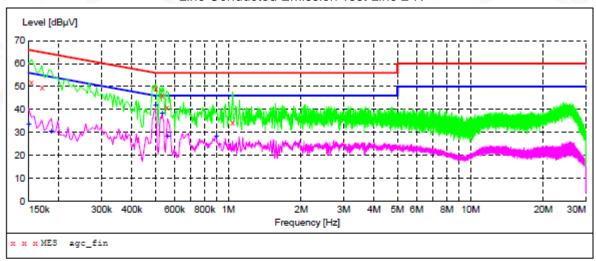
MEASUREMENT RESULT: "agc fin2"

2020/4/7 10:20 Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.178000	31.20	11.3	55	23.4	AV	L1	FLO
0.506000	42.40	11.3	46	3.6	AV	L1	FLO
0.538000	34.80	11.3	46	11.2	AV	Ll	FLO
0.542000	38.50	11.3	46	7.5	AV	Ll	FLO
0.574000	32.60	11.3	46	13.4	AV	L1	FLO
0.686000	28.90	11.3	46	17.1	AV	L1	FLO
0.906000	26.60	11.3	46	19.4	AV	Ll	FLO

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Line Conducted Emission Test Line 2-N



MEASUREMENT RESULT: "agc fin"

2020/4/7 10:1 Frequency MHz		Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.154000	51.70	11.3	66	14.1	QP	N	FLO
0.170000	49.50	11.3	65	15.5	QP	N	FLO
0.502000	49.30	11.3	56	6.7	QP	N	FLO
0.534000	46.10	11.3	56	9.9	QP	N	FLO
0.558000	40.70	11.3	56	15.3	QP	N	FLO
1.042000	34.20	11.3	56	21.8	QP	N	FLO

MEASUREMENT RESULT: "agc fin2"

2020/4/7 Frequen		Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.1500	00 33.50	11.3	56	22.5	AV	N	FLO
0.1860	00 30.20	11.3	54	24.0	AV	N	FLO
0.5020	00 41.80	11.3	46	4.2	AV	N	FLO
0.5340	00 38.10	11.3	46	7.9	AV	N	FLO
0.5620	00 28.40	11.3	46	17.6	AV	N	FLO
0.8940	00 28.10	11.3	46	17.9	AV	N	FLO

RESULT: PASS

Note: All the test modes had been tested, the mode 1 was the worst case. Only the data of the worst case would be record in this test report.

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