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Qingdao Richmat Intelligence Technology Inc

RF TEST REPORT

Report Type:
FCC Part 15.249 & ISED RSS-210 RF report

Model:
HJ RF

REPORT NUMBER:
210100807SHA-001

ISSUE DATE:
February 1, 2021

DOCUMENT CONTROL NUMBER:
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TEST REPORT

Report no.: 210100807SHA-001

Applicant:	Qingdao Richmat Intelligence Technology Inc NO. 78 Kongquehe 4th Road Qingdao Clothing Industry park Jimo, Qingdao, Shandong 266000, China
Manufacturer:	Qingdao Richmat Intelligence Technology Inc NO. 78 Kongquehe 4th Road Qingdao Clothing Industry park Jimo, Qingdao, Shandong 266000, China
FCC ID:	2AJJGHJRF

SUMMARY:

The equipment complies with the requirements according to the following standard(s) or Specification:

47CFR Part 15 (2019): Radio Frequency Devices (Subpart C)

ANSI C63.10 (2013): American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices

RSS-210 Issue 9 (August 2016): Licence-exempt Radio Apparatus (All Frequency Bands): Category I Equipment

RSS-Gen Issue 5 (March 2019) Amendment 1: General Requirements for Compliance of Radio Apparatus

PREPARED BY:	**REVIEWED BY:**
Wade zhang	Daniel.
Project Engineer Wade Zhang	Reviewer Daniel Zhao

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TEST REPORT

Content

TEST REPORT

Revision History

Report No.	Version	Description	Issued Date
210100807SHA-001	Rev. 01	Initial issue of report	February 1, 2021

Measurement result summary

TEST ITEM	FCC REFERANCE	IC REFERANCE	RESULT
Radiated emission	15.249 & 15.209	RSS-210 Issue 9 Clause B.10	Pass
Power line conducted emission	15.207	RSS-Gen Issue 5 Clause 8.8	NA
Assigned bandwidth (20dB bandwidth)	15.215(c)	RSS-Gen Issue 5 Clause 6.7	Pass
Antenna requirement	15.203	-	Pass

Notes: 1: NA =Not Applicable

2: Determination of the test conclusion is based on IEC Guide 115 in consideration of measurement uncertainty.

3: Additions, Deviations and Exclusions from Standards: None.

4: This report is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by use of this report. Only the Client is authorized to permit copying or distribution of this report and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test results in this report are relevant only to the sample tested. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.

1 GENERAL INFORMATION

1.1 Description of Equipment Under Test (EUT)

Product name:	Module
Type/Model:	HJ RF
Description of EUT:	EUT is a 2.4GHz wireless module, it has only one model. It was tested in the host.
Rating:	DC 3.3V
EUT type:	☒ Table top ☐ Floor standing
Software Version:	/
Hardware Version:	/
Sample received date:	January 20, 2021
Date of test:	January 20, 2021 ~ February 1, 2021

1.2 Technical Specification

Frequency Range:	2405MHz ~ 2480MHz
Type of Modulation:	FSK
Channel Number:	151 channels
Channel Separation:	0.5 MHz
Antenna Information:	PCB antenna, 0dBi

Host models:	HJH82C, HJH82D, HJSR05, HJSR06, HJH115, HJH116, HJH106, HJH109, HJH73, HJSR08, HJSR13, HJSR14, HJH95

1.3 Description of Test Facility

Name:	Intertek Testing Services Shanghai
Address:	Building 86, No. 1198 Qinzhou Road (North), Shanghai 200233, P.R. China
Telephone:	86 21 61278200
Telefax:	86 21 54262353

The test facility is recognized, certified, or accredited by these organizations:	CNAS Accreditation Lab Registration No. CNAS L0139
	FCC Accredited Lab Designation Number: CN1175
	IC Registration Lab CAB identifier.: CN0051
	VCCI Registration Lab Registration No.: R-14243, G-10845, C-14723, T-12252
	A2LA Accreditation Lab Certificate Number: 3309.02

2 TEST SPECIFICATIONS

2.1 Standards or specification

47CFR Part 15 (2019)
ANSI C63.10 (2013)
RSS-210 Issue 9 (August 2016)
RSS-Gen Issue 5 (March 2019) Amendment 1

2.2 Mode of operation during the test

The host are handhold devices, so three axes (X, Y, Z) were observed while the test receiver worked as "max hold" continuously and the highest reading among the whole test procedure was recorded.

The lowest, middle and highest channel were tested as representatives for radio module.

Mode	Lowest (MHz)	Middle (MHz)	Highest (MHz)
RF	2405	2440	2480

2.3 Test software list

Test Items	Software	Manufacturer	Version
Conducted emission	ESxS-K1	R&S	V2.1.0
Radiated emission	ES-K1	R&S	V1.71

2.4 Test peripherals list

Item No.	Name	Band and Model	Description
-	-	-	-

2.5 Test environment condition:

Test items	Temperature	Humidity
Radiated emission	25.2°C	50% RH
Assigned bandwidth (20dB bandwidth)	25.2°C	50% RH
Power line conducted emission	-	-

2.6 Instrument list

Conducted Emission					
Used	Equipment	Manufacturer	Type	Internal no.	Due date
☐	Test Receiver	R&S	ESCS 30	EC 2107	2021-07-14
☐	A.M.N.	R&S	ESH2-Z5	EC 3119	2021-11-10
Radiated Emission					
Used	Equipment	Manufacturer	Type	Internal no.	Due date
☑	Test Receiver	R&S	ESIB 26	EC 3045	2021-09-16
☑	Bilog Antenna	TESEQ	CBL 6112D	EC 4206	2021-09-25
☑	Horn antenna	R&S	HF 906	EC 3049	2021-01-17
☑	Horn antenna	ETS	3117	EC 4792-1	2021-03-15
☑	Horn antenna	TOYO	HAP18-26W	EC 4792-3	2021-07-09
☑	Pre-amplifier	R&S	Pre-amp 18	EC5262	2021-06-11
☑	Semi-anechoic chamber	Albatross project	-	EC 3048	2021-07-14
RF test					
Used	Equipment	Manufacturer	Type	Internal no.	Due date
☑	PXA Signal Analyzer	Keysight	N9030A	EC 5338	2021-03-16
☑	PXA Signal Analyzer	Keysight	N9030B	EC 6078	2021-06-10
☑	Power sensor	Agilent	U2021XA	EC 5338-1	2021-03-16
☑	Vector Signal Generator	Agilent	N5182B	EC 5175	2021-03-16
☑	MXG Analog Signal Generator	Agilent	N5181A	EC 5338-2	2021-03-16
☑	Test Receiver	R&S	ESCI 7	EC 4501	2021-09-16
☑	Signal generator	Agilent	N5182A	EC 6172	2021-08-21
☑	Signal generator	Agilent	N5181A	EC 6171	2021-08-21
☑	Climate chamber	GWS	MT3065	EC 6021	2021-03-05
Additional instrument					
Used	Equipment	Manufacturer	Type	Internal no.	Due date
☑	Therom-Hygrograph	ZJ1-2A	S.M.I.F.	EC 3783	2021-03-03
☑	Pressure meter	YM3	Shanghai Mengde	EC 4620	2021-09-09

2.7 Measurement uncertainty

The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Test item	Measurement uncertainty
Conducted emission 9KHz-150KHz	±3.2 dB
Conducted emission 150KHz-30MHz	±2.7 dB
Radiated emission 9KHz-30MHz	± 4.7 dB
Radiated emission 30MHz-1GHz	± 4.6 dB
Radiated emission 1GHz-18GHz	± 4.4 dB
Radiated emission 18GHz-26GHz	± 4.6 dB
Radiated emission 26GHz-40GHz	± 4.6 dB

3 Radiated emission

Test result: **Pass**

3.1 Limit

Fundamental Frequency (MHz)	Fundamental limit (dBμV/m)	Harmonic limit (dBμV/m)
☐ 902 - 928	94	54
☒ 2400 - 2483.5	94	54
☐ 5725 - 5875	94	54
☐ 24000 - 24250	108	68

The radiated emissions which fall in the restricted bands, must also comply with the radiated emission limits:

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

3.2 Measurement Procedure

For Radiated emission below 30MHz:

a) The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
b) The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
c) Both X and Y axes of the antenna are set to make the measurement.
d) For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
e) The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9kHz at frequency below 30MHz.

TEST REPORT

For Radiated emission above 30MHz:

a) The EUT was placed on the top of a rotating table 0.8 meters (for 30MHz ~ 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.

b) The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c) The height of antenna 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.

d) 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.

e) The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.

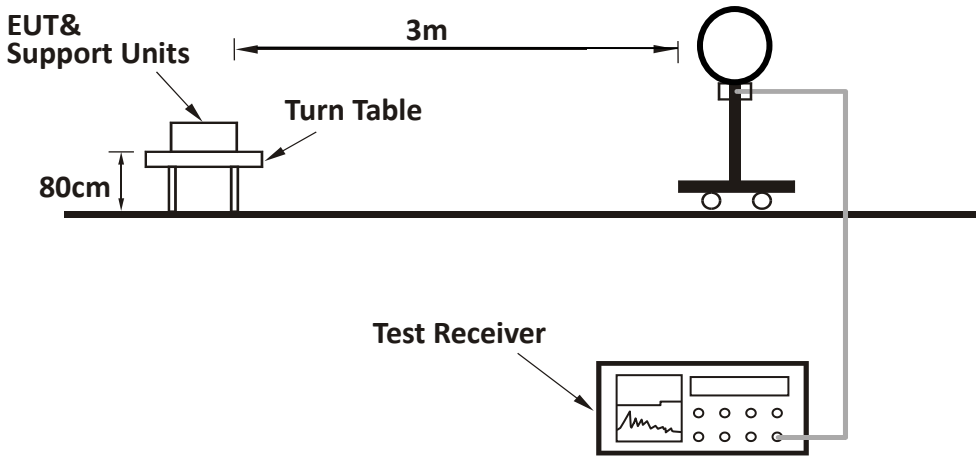
f) The test-receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

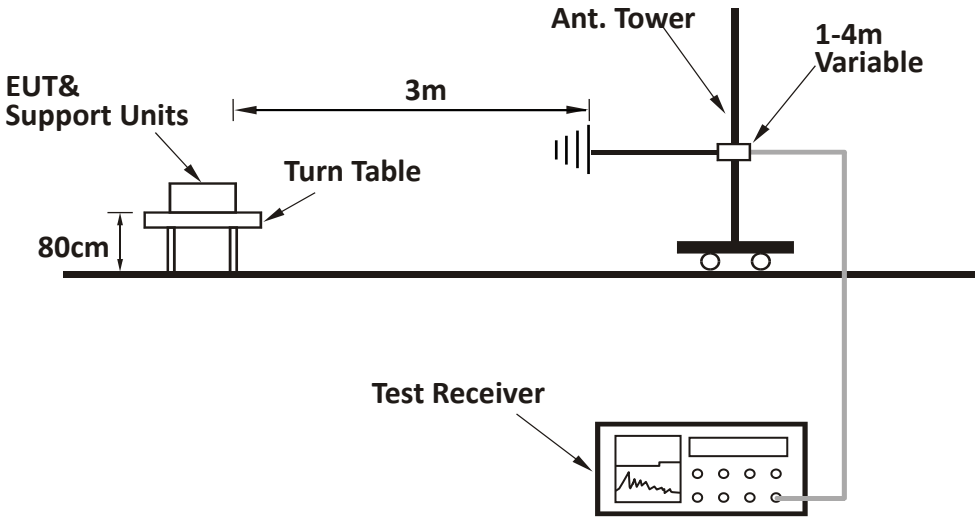
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is ≥ 1/T (Duty cycle < 98%) or 3 x RBW (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

3.3 Test Configuration

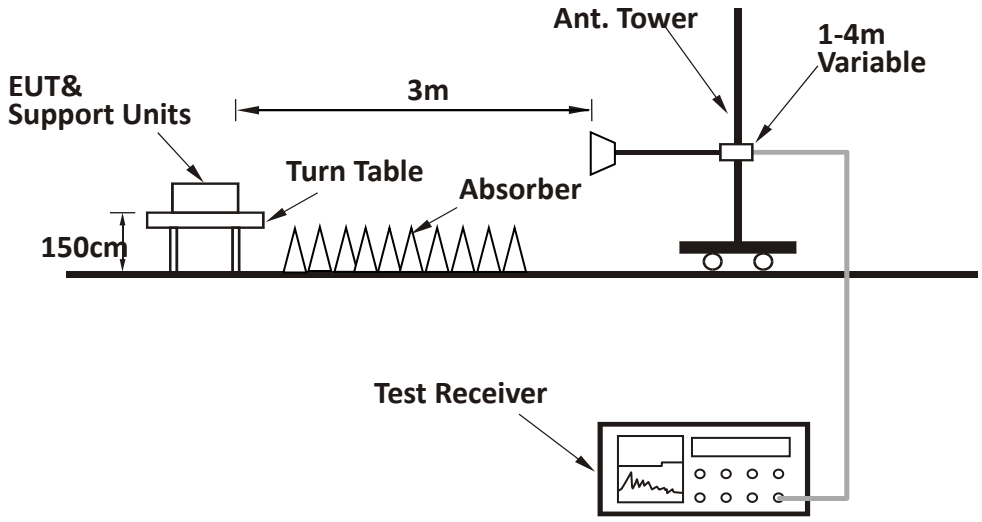
For Radiated emission below 30MHz:



For Radiated emission 30MHz to 1GHz:



For Radiated emission above 1GHz:



3.4 Test Results of Radiated Emissions

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.

Test data below 1GHz:

HJH82C:

CH L

Antenna	Frequency (MHz)	Corrected Reading (dBμV/m)	Correct Factor (dB/m)	Limit (dBμV/m)	Margin (dB)	Detector
H	53.379	20.79	-15.05	40.00	19.21	PK
H	69.230	18.47	-14.74	40.00	21.53	PK
H	101.893	17.16	-12.92	43.50	26.34	PK
H	403.934	22.66	-3.47	46.00	23.34	PK
H	637.795	26.81	0.14	46.00	19.19	PK
H	887.398	29.68	3.06	46.00	16.32	PK
V	30.425	20.84	-5.90	40.00	19.16	PK
V	43.845	16.49	-13.16	40.00	23.51	PK
V	149.968	15.82	-11.93	43.50	27.68	PK
V	442.572	22.87	-3.60	46.00	23.13	PK
V	569.969	25.39	-0.89	46.00	20.61	PK
V	965.474	28.67	3.41	54.00	25.33	PK

TEST REPORT

CH M

Antenna	Frequency (MHz)	Corrected Reading (dBµV/m)	Correct Factor (dB/m)	Limit (dBµV/m)	Margin (dB)	Detector
H	47.703	21.60	-13.90	40.00	18.40	PK
H	55.288	20.70	-15.19	40.00	19.30	PK
H	71.203	18.08	-14.63	40.00	21.92	PK
H	103.335	17.16	-12.95	43.50	26.34	PK
H	474.791	23.50	-2.93	46.00	22.50	PK
H	938.714	29.85	4.49	46.00	16.15	PK
V	37.302	17.56	-10.21	40.00	22.44	PK
V	99.768	15.06	-12.92	43.50	28.44	PK
V	189.108	16.25	-11.10	43.50	27.25	PK
V	418.378	22.64	-3.44	46.00	23.36	PK
V	594.514	25.25	-1.35	46.00	20.75	PK
V	965.474	28.99	3.41	54.00	25.01	PK

TEST REPORT

CH H

Antenna	Frequency (MHz)	Corrected Reading (dBµV/m)	Correct Factor (dB/m)	Limit (dBµV/m)	Margin (dB)	Detector
H	47.703	20.35	-13.90	40.00	19.65	PK
H	68.264	18.45	-14.84	40.00	21.55	PK
H	101.893	16.71	-12.92	43.50	26.79	PK
H	458.399	22.48	-3.37	46.00	23.52	PK
H	611.462	25.97	-0.12	46.00	20.03	PK
H	945.334	30.18	4.71	46.00	15.82	PK
V	30.425	20.25	-5.90	40.00	19.75	PK
V	53.756	17.57	-15.14	40.00	22.43	PK
V	165.472	15.32	-11.66	43.50	28.18	PK
V	418.378	22.90	-3.44	46.00	23.10	PK
V	698.804	27.00	0.45	46.00	19.00	PK
V	919.132	29.46	3.36	46.00	16.54	PK

TEST REPORT

HJH82D:

CH L

Antenna	Frequency (MHz)	Corrected Reading (dBµV/m)	Correct Factor (dB/m)	Limit (dBµV/m)	Margin (dB)	Detector
H	53.379	21.47	-15.05	40.00	18.53	PK
H	69.230	19.87	-14.74	40.00	20.13	PK
H	101.893	18.20	-12.92	43.50	25.30	PK
H	157.529	16.44	-11.19	43.50	27.06	PK
H	620.117	27.81	0.03	46.00	18.19	PK
H	932.141	29.58	4.27	46.00	16.42	PK
V	40.870	18.99	-12.19	40.00	21.01	PK
V	51.176	17.01	-15.18	40.00	22.99	PK
V	92.346	14.06	-13.53	43.50	29.44	PK
V	363.523	20.69	-5.15	46.00	25.31	PK
V	708.694	26.06	0.43	46.00	19.94	PK
V	881.184	29.28	2.63	46.00	16.72	PK

TEST REPORT

CH M

Antenna	Frequency (MHz)	Corrected Reading (dBµV/m)	Correct Factor (dB/m)	Limit (dBµV/m)	Margin (dB)	Detector
H	50.108	20.92	-14.81	40.00	19.08	PK
H	81.374	19.06	-14.23	40.00	20.94	PK
H	103.335	17.36	-12.95	43.50	26.14	PK
H	424.300	22.48	-3.74	46.00	23.52	PK
H	804.252	29.21	2.33	46.00	16.79	PK
H	938.714	29.54	4.49	46.00	16.46	PK
V	41.741	17.73	-12.47	40.00	22.27	PK
V	92.346	15.84	-13.53	43.50	27.66	PK
V	148.917	15.50	-12.03	43.50	28.00	PK
V	250.486	18.94	-8.04	46.00	27.06	PK
V	569.969	24.92	-0.89	46.00	21.08	PK
V	986.044	28.83	3.52	54.00	25.17	PK

TEST REPORT

CH H

Antenna	Frequency (MHz)	Corrected Reading (dBµV/m)	Correct Factor (dB/m)	Limit (dBµV/m)	Margin (dB)	Detector
H	43.845	20.18	-12.39	40.00	19.82	PK
H	54.135	20.04	-15.11	40.00	19.96	PK
H	69.718	18.94	-14.70	40.00	21.06	PK
H	104.798	16.39	-12.96	43.50	27.11	PK
H	481.511	24.36	-2.93	46.00	21.64	PK
H	925.613	29.14	4.04	46.00	16.86	PK
V	45.733	17.84	-13.78	40.00	22.16	PK
V	85.477	14.10	-13.99	40.00	25.90	PK
V	170.189	14.72	-11.66	43.50	28.78	PK
V	250.486	18.68	-8.04	46.00	27.32	PK
V	665.261	24.95	-1.06	46.00	21.05	PK
V	945.334	28.32	3.38	46.00	17.68	PK

TEST REPORT

HJSR05:

CH L

Antenna	Frequency (MHz)	Corrected Reading (dBµV/m)	Correct Factor (dB/m)	Limit (dBµV/m)	Margin (dB)	Detector
H	50.461	21.50	-14.84	40.00	18.50	PK
H	69.718	18.55	-14.70	40.00	21.45	PK
H	105.537	16.90	-12.97	43.50	26.60	PK
H	398.296	22.36	-3.54	46.00	23.64	PK
H	804.252	28.96	2.33	46.00	17.04	PK
H	938.714	30.32	4.49	46.00	15.68	PK
V	54.135	16.17	-15.14	40.00	23.83	PK
V	125.806	14.23	-13.20	43.50	29.27	PK
V	371.268	21.11	-5.25	46.00	24.89	PK
V	535.038	24.77	-1.62	46.00	21.23	PK
V	689.051	26.16	-0.08	46.00	19.84	PK
V	938.714	29.16	3.40	46.00	16.84	PK

TEST REPORT

CH M

Antenna	Frequency (MHz)	Corrected Reading (dBµV/m)	Correct Factor (dB/m)	Limit (dBµV/m)	Margin (dB)	Detector
H	51.900	21.37	-14.94	40.00	18.63	PK
H	68.264	19.50	-14.84	40.00	20.50	PK
H	101.180	17.46	-12.92	43.50	26.04	PK
H	350.972	20.81	-5.00	46.00	25.19	PK
H	628.894	27.17	0.12	46.00	18.83	PK
H	881.184	28.87	2.85	46.00	17.13	PK
V	35.016	17.92	-8.77	40.00	22.08	PK
V	45.413	17.51	-13.68	40.00	22.49	PK
V	149.968	17.15	-11.93	43.50	26.35	PK
V	424.300	22.68	-3.18	46.00	23.32	PK
V	558.079	25.40	-1.16	46.00	20.60	PK
V	932.141	29.86	3.41	46.00	16.14	PK

TEST REPORT

CH H

Antenna	Frequency (MHz)	Corrected Reading (dBµV/m)	Correct Factor (dB/m)	Limit (dBµV/m)	Margin (dB)	Detector
H	50.461	20.81	-14.84	40.00	19.19	PK
H	69.718	18.77	-14.70	40.00	21.23	PK
H	103.335	16.76	-12.95	43.50	26.74	PK
H	144.790	16.46	-12.43	43.50	27.04	PK
H	433.340	22.05	-3.70	46.00	23.95	PK
H	972.283	30.31	4.40	54.00	23.69	PK
V	30.639	20.34	-6.03	40.00	19.66	PK
V	45.733	16.95	-13.78	40.00	23.05	PK
V	108.546	13.65	-13.01	43.50	29.85	PK
V	276.382	18.87	-7.36	46.00	27.13	PK
V	439.473	23.52	-3.53	46.00	22.48	PK
V	887.398	28.38	2.81	46.00	17.62	PK

TEST REPORT

HJSR06:

CH L

Antenna	Frequency (MHz)	Corrected Reading (dBµV/m)	Correct Factor (dB/m)	Limit (dBµV/m)	Margin (dB)	Detector
H	45.095	21.25	-12.89	40.00	18.75	PK
H	52.634	21.04	-15.00	40.00	18.96	PK
H	101.893	17.69	-12.92	43.50	25.81	PK
H	213.103	17.08	-10.05	43.50	26.42	PK
H	554.171	24.44	-1.75	46.00	21.56	PK
H	938.714	29.86	4.49	46.00	16.14	PK
V	47.703	17.42	-14.44	40.00	22.58	PK
V	95.649	14.03	-13.24	43.50	29.47	PK
V	142.769	16.38	-12.63	43.50	27.12	PK
V	392.738	21.76	-4.53	46.00	24.24	PK
V	582.112	26.01	-0.99	46.00	19.99	PK
V	798.620	28.72	1.48	46.00	17.28	PK

TEST REPORT

CH M

Antenna	Frequency (MHz)	Corrected Reading (dBµV/m)	Correct Factor (dB/m)	Limit (dBµV/m)	Margin (dB)	Detector
H	53.756	21.27	-15.08	40.00	18.73	PK
H	68.264	19.19	-14.84	40.00	20.81	PK
H	105.537	16.64	-12.97	43.50	26.86	PK
H	250.486	17.71	-8.04	46.00	28.29	PK
H	520.208	25.00	-1.94	46.00	21.00	PK
H	809.924	28.43	2.30	46.00	17.57	PK
V	31.513	20.87	-6.58	40.00	19.13	PK
V	45.095	18.89	-13.58	40.00	21.11	PK
V	156.426	14.41	-11.75	43.50	29.09	PK
V	350.972	21.16	-5.00	46.00	24.84	PK
V	558.079	25.82	-1.16	46.00	20.18	PK
V	945.334	29.89	3.38	46.00	16.11	PK

TEST REPORT

CH H

Antenna	Frequency (MHz)	Corrected Reading (dBµV/m)	Correct Factor (dB/m)	Limit (dBµV/m)	Margin (dB)	Detector
H	53.379	20.40	-15.05	40.00	19.60	PK
H	70.705	17.88	-14.65	40.00	22.12	PK
H	101.893	16.80	-12.92	43.50	26.70	PK
H	296.502	19.12	-6.85	46.00	26.88	PK
H	488.326	23.66	-2.95	46.00	22.34	PK
H	919.132	29.15	3.89	46.00	16.85	PK
V	33.101	19.40	-7.58	40.00	20.60	PK
V	47.703	16.80	-14.44	40.00	23.20	PK
V	95.649	14.41	-13.24	43.50	29.09	PK
V	149.968	16.34	-11.93	43.50	27.16	PK
V	569.969	25.79	-0.89	46.00	20.21	PK
V	899.958	28.82	3.16	46.00	17.18	PK

TEST REPORT

HJH115:

CH L

Antenna	Frequency (MHz)	Corrected Reading (dBµV/m)	Correct Factor (dB/m)	Limit (dBµV/m)	Margin (dB)	Detector
H	47.703	20.67	-13.90	40.00	19.33	PK
H	69.718	19.50	-14.70	40.00	20.50	PK
H	103.335	16.32	-12.95	43.50	27.18	PK
H	387.257	21.70	-4.37	46.00	24.30	PK
H	674.677	28.19	1.06	46.00	17.81	PK
H	938.714	29.76	4.49	46.00	16.24	PK
V	31.073	20.27	-6.30	40.00	19.73	PK
V	43.538	16.67	-13.06	40.00	23.33	PK
V	225.427	17.94	-9.47	46.00	28.06	PK
V	430.305	23.11	-3.29	46.00	22.89	PK
V	598.707	25.11	-1.48	46.00	20.89	PK
V	938.714	28.56	3.40	46.00	17.44	PK

TEST REPORT

CH M

Antenna	Frequency (MHz)	Corrected Reading (dBµV/m)	Correct Factor (dB/m)	Limit (dBµV/m)	Margin (dB)	Detector
H	53.756	20.62	-15.08	40.00	19.38	PK
H	76.926	18.63	-14.43	40.00	21.37	PK
H	101.893	16.95	-12.92	43.50	26.55	PK
H	205.746	15.78	-10.39	43.50	27.72	PK
H	401.105	22.10	-3.44	46.00	23.90	PK
H	972.283	29.98	4.40	54.00	24.02	PK
V	31.292	21.61	-6.44	40.00	18.39	PK
V	42.931	17.13	-12.87	40.00	22.87	PK
V	149.968	16.01	-11.93	43.50	27.49	PK
V	353.447	20.60	-5.03	46.00	25.40	PK
V	558.079	25.65	-1.16	46.00	20.35	PK
V	827.179	28.65	2.13	46.00	17.35	PK

TEST REPORT

CH H

Antenna	Frequency (MHz)	Corrected Reading (dBµV/m)	Correct Factor (dB/m)	Limit (dBµV/m)	Margin (dB)	Detector
H	50.461	20.77	-14.84	40.00	19.23	PK
H	69.230	19.68	-14.74	40.00	20.32	PK
H	104.798	16.33	-12.96	43.50	27.17	PK
H	250.486	18.72	-8.04	46.00	27.28	PK
H	531.291	24.88	-1.71	46.00	21.12	PK
H	965.474	29.98	4.54	54.00	24.02	PK
V	35.762	18.25	-9.24	40.00	21.75	PK
V	54.135	16.95	-15.14	40.00	23.05	PK
V	163.162	15.87	-11.66	43.50	27.63	PK
V	421.329	23.07	-3.32	46.00	22.93	PK
V	594.514	25.21	-1.35	46.00	20.79	PK
V	958.714	29.54	3.41	46.00	16.46	PK

TEST REPORT

HJH116:

CH L

Antenna	Frequency (MHz)	Corrected Reading (dBµV/m)	Correct Factor (dB/m)	Limit (dBµV/m)	Margin (dB)	Detector
H	54.135	20.69	-15.11	40.00	19.31	PK
H	69.230	18.76	-14.74	40.00	21.24	PK
H	102.612	17.58	-12.93	43.50	25.92	PK
H	250.486	17.83	-8.04	46.00	28.17	PK
H	523.876	23.95	-1.75	46.00	22.05	PK
H	945.334	30.65	4.71	46.00	15.35	PK
V	50.461	17.90	-15.20	40.00	22.10	PK
V	91.057	13.69	-13.63	43.50	29.81	PK
V	263.115	18.68	-7.72	46.00	27.32	PK
V	488.326	23.94	-2.58	46.00	22.06	PK
V	728.897	25.78	0.19	46.00	20.22	PK
V	868.886	28.60	2.32	46.00	17.40	PK

TEST REPORT

CH M

Antenna	Frequency (MHz)	Corrected Reading (dBµV/m)	Correct Factor (dB/m)	Limit (dBµV/m)	Margin (dB)	Detector
H	54.135	21.21	-15.11	40.00	18.79	PK
H	77.468	18.65	-14.42	40.00	21.35	PK
H	103.335	16.90	-12.95	43.50	26.60	PK
H	334.126	20.18	-5.67	46.00	25.82	PK
H	406.782	22.88	-3.51	46.00	23.12	PK
H	952.000	29.53	4.83	46.00	16.47	PK
V	47.703	17.83	-14.44	40.00	22.17	PK
V	118.096	14.60	-13.21	43.50	28.90	PK
V	252.252	16.81	-8.00	46.00	29.19	PK
V	348.514	20.57	-5.08	46.00	25.43	PK
V	698.804	26.91	0.45	46.00	19.09	PK
V	912.695	28.59	3.28	46.00	17.41	PK

TEST REPORT

CH H

Antenna	Frequency (MHz)	Corrected Reading (dBµV/m)	Correct Factor (dB/m)	Limit (dBµV/m)	Margin (dB)	Detector
H	53.756	20.73	-15.08	40.00	19.27	PK
H	68.264	18.03	-14.84	40.00	21.97	PK
H	102.612	15.63	-12.93	43.50	27.87	PK
H	389.987	20.78	-4.17	46.00	25.22	PK
H	590.351	25.26	-0.88	46.00	20.74	PK
H	952.000	29.90	4.83	46.00	16.10	PK
V	41.741	19.02	-12.47	40.00	20.98	PK
V	50.461	17.98	-15.20	40.00	22.02	PK
V	162.020	15.30	-11.65	43.50	28.20	PK
V	350.972	20.51	-5.00	46.00	25.49	PK
V	569.969	25.68	-0.89	46.00	20.32	PK
V	899.958	28.73	3.16	46.00	17.27	PK

TEST REPORT

HJH106:

CH L

Antenna	Frequency (MHz)	Corrected Reading (dBµV/m)	Correct Factor (dB/m)	Limit (dBµV/m)	Margin (dB)	Detector
H	50.461	20.21	-14.84	40.00	19.79	PK
H	69.718	18.70	-14.70	40.00	21.30	PK
H	101.893	17.44	-12.92	43.50	26.06	PK
H	392.738	21.66	-3.96	46.00	24.34	PK
H	708.694	28.05	1.42	46.00	17.95	PK
H	958.714	29.32	4.70	46.00	16.68	PK
V	30.425	19.75	-5.90	40.00	20.25	PK
V	45.095	17.81	-13.58	40.00	22.19	PK
V	94.314	14.81	-13.36	43.50	28.69	PK
V	338.855	22.09	-5.64	46.00	23.91	PK
V	535.038	25.18	-1.62	46.00	20.82	PK
V	899.958	28.31	3.16	46.00	17.69	PK

TEST REPORT

CH M

Antenna	Frequency (MHz)	Corrected Reading (dBµV/m)	Correct Factor (dB/m)	Limit (dBµV/m)	Margin (dB)	Detector
H	54.135	20.22	-15.11	40.00	19.78	PK
H	69.230	19.54	-14.74	40.00	20.46	PK
H	105.537	17.20	-12.97	43.50	26.30	PK
H	318.088	20.04	-6.26	46.00	25.96	PK
H	531.291	24.26	-1.71	46.00	21.74	PK
H	698.804	28.34	1.59	46.00	17.66	PK
V	32.411	20.00	-7.14	40.00	20.00	PK
V	50.461	19.00	-15.20	40.00	21.00	PK
V	148.917	17.20	-12.03	43.50	26.30	PK
V	558.079	25.58	-1.16	46.00	20.42	PK
V	708.694	26.89	0.43	46.00	19.11	PK
V	925.613	28.64	3.42	46.00	17.36	PK

TEST REPORT

CH H

Antenna	Frequency (MHz)	Corrected Reading (dBµV/m)	Correct Factor (dB/m)	Limit (dBµV/m)	Margin (dB)	Detector
H	30.425	19.68	-6.15	40.00	20.32	PK
H	53.756	20.56	-15.08	40.00	19.44	PK
H	69.718	19.22	-14.70	40.00	20.78	PK
H	101.893	17.21	-12.92	43.50	26.29	PK
H	424.300	22.53	-3.74	46.00	23.47	PK
H	655.977	27.58	0.37	46.00	18.42	PK
V	46.708	17.64	-14.10	40.00	22.36	PK
V	89.787	14.65	-13.72	43.50	28.85	PK
V	185.163	15.79	-11.01	43.50	27.71	PK
V	430.305	23.65	-3.29	46.00	22.35	PK
V	718.725	27.70	0.33	46.00	18.30	PK
V	919.132	29.67	3.36	46.00	16.33	PK

TEST REPORT

HJH109:

CH L

Antenna	Frequency (MHz)	Corrected Reading (dBµV/m)	Correct Factor (dB/m)	Limit (dBµV/m)	Margin (dB)	Detector
H	50.461	20.45	-14.84	40.00	19.55	PK
H	69.230	20.39	-14.74	40.00	19.61	PK
H	102.612	16.57	-12.93	43.50	26.93	PK
H	573.988	25.78	-1.78	46.00	20.22	PK
H	693.910	27.83	1.47	46.00	18.17	PK
H	919.132	29.24	3.89	46.00	16.76	PK
V	31.292	20.02	-6.44	40.00	19.98	PK
V	54.135	17.21	-15.14	40.00	22.79	PK
V	103.335	14.40	-12.95	43.50	29.10	PK
V	348.514	20.15	-5.08	46.00	25.85	PK
V	569.969	24.95	-0.89	46.00	21.05	PK
V	925.613	28.42	3.42	46.00	17.58	PK

TEST REPORT

CH M

Antenna	Frequency (MHz)	Corrected Reading (dBµV/m)	Correct Factor (dB/m)	Limit (dBµV/m)	Margin (dB)	Detector
H	31.292	21.17	-6.57	40.00	18.83	PK
H	54.135	20.77	-15.11	40.00	19.23	PK
H	69.230	19.48	-14.74	40.00	20.52	PK
H	103.335	17.09	-12.95	43.50	26.41	PK
H	531.291	24.15	-1.71	46.00	21.85	PK
H	952.000	30.03	4.83	46.00	15.97	PK
V	40.870	18.42	-12.19	40.00	21.58	PK
V	52.634	17.27	-15.16	40.00	22.73	PK
V	149.968	16.86	-11.93	43.50	26.64	PK
V	353.447	20.57	-5.03	46.00	25.43	PK
V	546.437	25.06	-1.40	46.00	20.94	PK
V	919.132	28.39	3.36	46.00	17.61	PK

TEST REPORT

CH H

Antenna	Frequency (MHz)	Corrected Reading (dBµV/m)	Correct Factor (dB/m)	Limit (dBµV/m)	Margin (dB)	Detector
H	54.135	20.83	-15.11	40.00	19.17	PK
H	76.926	17.83	-14.43	40.00	22.17	PK
H	101.893	16.84	-12.92	43.50	26.66	PK
H	398.296	21.28	-3.54	46.00	24.72	PK
H	693.910	26.81	1.47	46.00	19.19	PK
H	945.334	29.14	4.71	46.00	16.86	PK
V	48.378	17.94	-14.66	40.00	22.06	PK
V	98.375	15.51	-13.03	43.50	27.99	PK
V	152.090	15.41	-11.87	43.50	28.09	PK
V	304.955	18.70	-6.70	46.00	27.30	PK
V	569.969	24.69	-0.89	46.00	21.31	PK
V	899.958	28.80	3.16	46.00	17.20	PK

HJH73:

CH L

Antenna	Frequency (MHz)	Corrected Reading (dBμV/m)	Correct Factor (dB/m)	Limit (dBμV/m)	Margin (dB)	Detector
H	53.756	20.66	-15.08	40.00	19.34	PK
H	69.718	19.68	-14.70	40.00	20.32	PK
H	101.893	17.20	-12.92	43.50	26.30	PK
H	348.514	21.67	-5.05	46.00	24.33	PK
H	703.731	28.41	1.53	46.00	17.59	PK
H	938.714	29.82	4.49	46.00	16.18	PK
V	40.299	17.67	-11.99	40.00	22.33	PK
V	53.379	16.64	-15.15	40.00	23.36	PK
V	94.979	13.73	-13.31	43.50	29.77	PK
V	360.977	21.55	-5.13	46.00	24.45	PK
V	615.774	25.26	-1.36	46.00	20.74	PK
V	938.714	27.81	3.40	46.00	18.19	PK

TEST REPORT

CH M

Antenna	Frequency (MHz)	Corrected Reading (dBµV/m)	Correct Factor (dB/m)	Limit (dBµV/m)	Margin (dB)	Detector
H	52.634	20.79	-15.00	40.00	19.21	PK
H	69.230	18.84	-14.74	40.00	21.16	PK
H	102.612	16.75	-12.93	43.50	26.75	PK
H	214.606	16.46	-9.99	43.50	27.04	PK
H	538.811	24.82	-1.73	46.00	21.18	PK
H	945.334	29.45	4.71	46.00	16.55	PK
V	31.073	20.51	-6.30	40.00	19.49	PK
V	52.634	17.12	-15.16	40.00	22.88	PK
V	152.090	15.02	-11.87	43.50	28.48	PK
V	412.539	21.98	-3.69	46.00	24.02	PK
V	651.383	25.59	-1.43	46.00	20.41	PK
V	912.695	27.92	3.28	46.00	18.08	PK

TEST REPORT

CH H

Antenna	Frequency (MHz)	Corrected Reading (dBµV/m)	Correct Factor (dB/m)	Limit (dBµV/m)	Margin (dB)	Detector
H	30.212	19.80	-6.03	40.00	20.20	PK
H	53.756	20.67	-15.08	40.00	19.33	PK
H	69.230	18.63	-14.74	40.00	21.37	PK
H	101.893	16.63	-12.92	43.50	26.87	PK
H	412.539	22.54	-3.59	46.00	23.46	PK
H	958.714	29.14	4.70	46.00	16.86	PK
V	41.158	20.09	-12.28	40.00	19.91	PK
V	54.135	16.78	-15.14	40.00	23.22	PK
V	89.158	14.17	-13.76	43.50	29.33	PK
V	280.294	18.19	-7.26	46.00	27.81	PK
V	439.473	22.86	-3.53	46.00	23.14	PK
V	932.141	28.22	3.41	46.00	17.78	PK

TEST REPORT

HJSR08:

CH L

Antenna	Frequency (MHz)	Corrected Reading (dBµV/m)	Correct Factor (dB/m)	Limit (dBµV/m)	Margin (dB)	Detector
H	53.379	20.95	-15.05	40.00	19.05	PK
H	62.304	19.28	-15.35	40.00	20.72	PK
H	101.893	17.50	-12.92	43.50	26.00	PK
H	366.087	20.64	-5.18	46.00	25.36	PK
H	611.462	26.88	-0.12	46.00	19.12	PK
H	887.398	29.24	3.06	46.00	16.76	PK
V	43.845	18.56	-13.16	40.00	21.44	PK
V	64.080	15.04	-14.90	40.00	24.96	PK
V	195.870	16.51	-10.85	43.50	26.99	PK
V	495.238	25.26	-2.45	46.00	20.74	PK
V	703.731	26.25	0.48	46.00	19.75	PK
V	932.141	29.47	3.41	46.00	16.53	PK

TEST REPORT

CH M

Antenna	Frequency (MHz)	Corrected Reading (dBµV/m)	Correct Factor (dB/m)	Limit (dBµV/m)	Margin (dB)	Detector
H	53.756	20.94	-15.08	40.00	19.06	PK
H	73.750	18.63	-14.55	40.00	21.37	PK
H	103.335	17.72	-12.95	43.50	25.78	PK
H	284.261	18.80	-7.16	46.00	27.20	PK
H	516.565	24.53	-2.12	46.00	21.47	PK
H	793.028	29.61	2.19	46.00	16.39	PK
V	33.101	18.08	-7.58	40.00	21.92	PK
V	47.703	16.61	-14.44	40.00	23.39	PK
V	142.769	15.19	-12.63	43.50	28.31	PK
V	315.860	19.01	-6.58	46.00	26.99	PK
V	594.514	26.00	-1.35	46.00	20.00	PK
V	899.958	29.64	3.16	46.00	16.36	PK

TEST REPORT

CH H

Antenna	Frequency (MHz)	Corrected Reading (dBµV/m)	Correct Factor (dB/m)	Limit (dBµV/m)	Margin (dB)	Detector
H	31.959	19.47	-6.91	40.00	20.53	PK
H	52.634	20.68	-15.00	40.00	19.32	PK
H	66.371	18.09	-14.99	40.00	21.91	PK
H	101.893	17.05	-12.92	43.50	26.45	PK
H	409.651	21.41	-3.55	46.00	24.59	PK
H	821.387	28.42	2.25	46.00	17.58	PK
V	45.095	15.80	-13.58	40.00	24.20	PK
V	142.769	17.59	-12.63	43.50	25.91	PK
V	346.074	20.59	-5.21	46.00	25.41	PK
V	412.539	22.74	-3.69	46.00	23.26	PK
V	569.969	25.63	-0.89	46.00	20.37	PK
V	932.141	28.38	3.41	46.00	17.62	PK

TEST REPORT

HJSR13:

CH L

Antenna	Frequency (MHz)	Corrected Reading (dBμV/m)	Correct Factor (dB/m)	Limit (dBμV/m)	Margin (dB)	Detector
H	53.756	21.90	-15.08	40.00	18.10	PK
H	68.264	18.58	-14.84	40.00	21.42	PK
H	103.335	17.49	-12.95	43.50	26.01	PK
H	368.668	21.80	-5.22	46.00	24.20	PK
H	542.610	25.01	-1.73	46.00	20.99	PK
H	945.334	30.37	4.71	46.00	15.63	PK
V	40.870	17.83	-12.19	40.00	22.17	PK
V	52.634	17.54	-15.16	40.00	22.46	PK
V	92.997	14.69	-13.48	43.50	28.81	PK
V	290.317	18.22	-7.00	46.00	27.78	PK
V	689.051	26.26	-0.08	46.00	19.74	PK
V	881.184	27.92	2.63	46.00	18.08	PK

TEST REPORT

CH M

Antenna	Frequency (MHz)	Corrected Reading (dBµV/m)	Correct Factor (dB/m)	Limit (dBµV/m)	Margin (dB)	Detector
H	52.634	20.38	-15.00	40.00	19.62	PK
H	69.718	19.11	-14.70	40.00	20.89	PK
H	79.119	19.11	-14.36	40.00	20.89	PK
H	104.798	16.32	-12.96	43.50	27.18	PK
H	478.139	23.32	-2.93	46.00	22.68	PK
H	979.139	29.43	4.35	54.00	24.57	PK
V	30.855	20.29	-6.16	40.00	19.71	PK
V	50.108	18.31	-15.20	40.00	21.69	PK
V	99.069	13.82	-12.97	43.50	29.68	PK
V	254.031	18.04	-7.95	46.00	27.96	PK
V	531.291	24.06	-1.68	46.00	21.94	PK
V	815.635	28.24	1.91	46.00	17.76	PK

TEST REPORT

CH H

Antenna	Frequency (MHz)	Corrected Reading (dBµV/m)	Correct Factor (dB/m)	Limit (dBµV/m)	Margin (dB)	Detector
H	53.756	21.01	-15.08	40.00	18.99	PK
H	68.264	18.55	-14.84	40.00	21.45	PK
H	101.893	18.01	-12.92	43.50	25.49	PK
H	300.699	20.06	-6.74	46.00	25.94	PK
H	401.105	23.30	-3.44	46.00	22.70	PK
H	979.139	29.37	4.35	54.00	24.63	PK
V	43.845	19.61	-13.16	40.00	20.39	PK
V	55.288	17.57	-15.12	40.00	22.43	PK
V	149.968	14.75	-11.93	43.50	28.75	PK
V	418.378	21.97	-3.44	46.00	24.03	PK
V	637.795	24.91	-1.36	46.00	21.09	PK
V	899.958	27.51	3.16	46.00	18.49	PK

TEST REPORT

HJSR14:

CH L

Antenna	Frequency (MHz)	Corrected Reading (dBµV/m)	Correct Factor (dB/m)	Limit (dBµV/m)	Margin (dB)	Detector
H	54.135	21.77	-15.11	40.00	-18.23	PK
H	67.786	18.31	-14.88	40.00	-21.69	PK
H	104.798	16.91	-12.96	43.50	-26.59	PK
H	270.616	18.27	-7.52	46.00	-27.73	PK
H	512.948	24.41	-2.31	46.00	-21.59	PK
H	809.924	27.88	2.30	46.00	-18.12	PK
V	43.845	17.26	-13.16	40.00	22.74	PK
V	54.135	17.17	-15.14	40.00	22.83	PK
V	159.759	15.02	-11.65	43.50	28.48	PK
V	424.300	23.83	-3.18	46.00	22.17	PK
V	569.969	25.63	-0.89	46.00	20.37	PK
V	945.334	27.70	3.38	46.00	18.30	PK

TEST REPORT

CH M

Antenna	Frequency (MHz)	Corrected Reading (dBµV/m)	Correct Factor (dB/m)	Limit (dBµV/m)	Margin (dB)	Detector
H	53.756	21.39	-15.08	40.00	18.61	PK
H	62.304	18.54	-15.35	40.00	21.46	PK
H	102.612	16.66	-12.93	43.50	26.84	PK
H	452.001	22.77	-3.54	46.00	23.23	PK
H	718.725	27.14	1.20	46.00	18.86	PK
H	938.714	28.82	4.49	46.00	17.18	PK
V	30.639	20.04	-6.03	40.00	19.96	PK
V	41.158	17.70	-12.28	40.00	22.30	PK
V	54.135	16.83	-15.14	40.00	23.17	PK
V	162.020	15.58	-11.65	43.50	27.92	PK
V	254.031	18.76	-7.95	46.00	27.24	PK
V	912.695	28.16	3.28	46.00	17.84	PK

TEST REPORT

CH H

Antenna	Frequency (MHz)	Corrected Reading (dBµV/m)	Correct Factor (dB/m)	Limit (dBµV/m)	Margin (dB)	Detector
H	53.379	20.62	-15.05	40.00	19.38	PK
H	67.311	18.60	-14.92	40.00	21.40	PK
H	87.914	17.47	-13.83	40.00	22.53	PK
H	327.155	20.06	-5.98	46.00	25.94	PK
H	703.731	27.28	1.53	46.00	18.72	PK
H	938.714	29.53	4.49	46.00	16.47	PK
V	40.870	18.00	-12.19	40.00	22.00	PK
V	63.186	14.46	-14.92	40.00	25.54	PK
V	180.030	16.03	-10.90	43.50	27.47	PK
V	343.651	21.13	-5.37	46.00	24.87	PK
V	569.969	26.06	-0.89	46.00	19.94	PK
V	932.141	28.74	3.41	46.00	17.26	PK

TEST REPORT

HJH95:

CH L

Antenna	Frequency (MHz)	Corrected Reading (dBµV/m)	Correct Factor (dB/m)	Limit (dBµV/m)	Margin (dB)	Detector
H	53.756	22.14	-15.08	40.00	17.86	PK
H	101.893	17.56	-12.92	43.50	25.94	PK
H	272.525	18.29	-7.48	46.00	27.71	PK
H	590.351	26.55	-0.88	46.00	19.45	PK
H	787.475	28.76	2.06	46.00	17.24	PK
H	958.714	30.42	4.70	46.00	15.58	PK
V	33.101	18.64	-7.58	40.00	21.36	PK
V	54.135	15.99	-15.14	40.00	24.01	PK
V	142.769	16.91	-12.63	43.50	26.59	PK
V	418.378	22.88	-3.44	46.00	23.12	PK
V	734.037	26.35	0.07	46.00	19.65	PK
V	979.139	30.55	3.47	54.00	23.45	PK

TEST REPORT

CH M

Antenna	Frequency (MHz)	Corrected Reading (dBµV/m)	Correct Factor (dB/m)	Limit (dBµV/m)	Margin (dB)	Detector
H	53.756	20.71	-15.08	40.00	19.29	PK
H	69.230	18.83	-14.74	40.00	21.17	PK
H	101.893	17.25	-12.92	43.50	26.25	PK
H	387.257	22.06	-4.37	46.00	23.94	PK
H	569.969	26.01	-1.77	46.00	19.99	PK
H	932.141	30.40	4.27	46.00	15.60	PK
V	30.855	20.68	-6.16	40.00	19.32	PK
V	50.461	15.47	-15.20	40.00	24.53	PK
V	142.769	15.74	-12.63	43.50	27.76	PK
V	368.668	21.39	-5.22	46.00	24.61	PK
V	718.725	26.11	0.33	46.00	19.89	PK
V	912.695	28.21	3.28	46.00	17.79	PK

TEST REPORT

CH H

Antenna	Frequency (MHz)	Corrected Reading (dBµV/m)	Correct Factor (dB/m)	Limit (dBµV/m)	Margin (dB)	Detector
H	47.703	21.16	-13.90	40.00	18.84	PK
H	74.270	17.76	-14.52	40.00	22.24	PK
H	103.335	16.24	-12.95	43.50	27.26	PK
H	427.292	22.33	-3.74	46.00	23.67	PK
H	798.620	28.26	2.31	46.00	17.74	PK
H	919.132	30.02	3.89	46.00	15.98	PK
V	36.014	18.18	-9.39	40.00	21.82	PK
V	47.703	17.58	-14.44	40.00	22.42	PK
V	92.346	14.14	-13.53	43.50	29.36	PK
V	156.426	15.87	-11.75	43.50	27.63	PK
V	442.572	23.23	-3.60	46.00	22.77	PK
V	804.252	28.44	1.65	46.00	17.56	PK

TEST REPORT

Test result above 1GHz:

HJH82C:

CH	Antenna	Frequency (MHz)	Corrected Reading (dBμV/m)	Correct Factor (dB/m)	Limit (dBμV/m)	Margin (dB)	Detector
L	H	2405	92.40	9.17	114.00	21.60	PK
	V	2405	90.22	9.59	114.00	23.78	PK
	H	2400	52.25	9.19	74.00	21.75	PK
	V	2400	46.56	9.61	74.00	27.44	PK
	H	4810	46.07	9.13	74.00	27.93	PK
	V	4810	46.15	9.24	74.00	27.85	PK
	H	7215	47.19	8.59	74.00	26.81	PK
	V	7215	47.85	8.69	74.00	26.15	PK
M	H	2440	91.01	9.09	114.00	22.99	PK
	V	2440	88.86	9.51	114.00	25.14	PK
	H	4880	47.78	9.13	74.00	26.22	PK
	V	4880	46.89	9.31	74.00	27.11	PK
	H	7320	48.52	8.56	74.00	25.48	PK
	V	7320	47.89	8.66	74.00	26.11	PK
H	H	2480	91.61	9.00	114.00	22.39	PK
	V	2480	86.33	9.40	114.00	27.67	PK
	H	2483.5	55.50	8.98	74.00	18.50	PK
	V	2483.5	49.44	9.39	74.00	24.56	PK
	H	4960	47.88	9.12	74.00	26.12	PK
	V	4960	47.68	9.38	74.00	26.32	PK
	H	7440	46.27	8.52	74.00	27.73	PK
	V	7440	46.56	8.62	74.00	27.44	PK

TEST REPORT

HJH82D:

CH	Antenna	Frequency (MHz)	Corrected Reading (dBμV/m)	Correct Factor (dB/m)	Limit (dBμV/m)	Margin (dB)	Detector
L	H	2405	92.76	9.17	114.00	21.24	PK
	V	2405	88.85	9.59	114.00	25.15	PK
	H	2400	49.50	9.19	74.00	24.50	PK
	V	2400	47.53	9.61	74.00	26.47	PK
	H	4810	46.91	9.13	74.00	27.09	PK
	V	4810	45.94	9.24	74.00	28.06	PK
	H	7215	46.61	8.59	74.00	27.39	PK
	V	7215	46.75	8.69	74.00	27.25	PK
M	H	2440	92.04	9.09	114.00	21.96	PK
	V	2440	90.64	9.51	114.00	23.36	PK
	H	4880	45.67	9.13	74.00	28.33	PK
	V	4880	44.55	9.31	74.00	29.45	PK
	H	7320	47.12	8.56	74.00	26.88	PK
	V	7320	45.69	8.66	74.00	28.31	PK
H	H	2480	89.03	9.00	114.00	24.97	PK
	V	2480	89.38	9.40	114.00	24.62	PK
	H	2483.5	50.96	8.98	74.00	23.04	PK
	V	2483.5	52.48	9.39	74.00	21.52	PK
	H	4960	44.99	9.12	74.00	29.01	PK
	V	4960	47.12	9.38	74.00	26.88	PK
	H	7440	46.55	8.52	74.00	27.45	PK
	V	7440	46.94	8.62	74.00	27.06	PK

TEST REPORT

HJSR05:

CH	Antenna	Frequency (MHz)	Corrected Reading (dBμV/m)	Correct Factor (dB/m)	Limit (dBμV/m)	Margin (dB)	Detector
L	H	2405	91.69	9.17	114.00	22.31	PK
	V	2405	87.49	9.59	114.00	26.51	PK
	H	2400	45.45	9.19	74.00	28.55	PK
	V	2400	41.00	9.61	74.00	33.00	PK
	H	4810	45.99	9.13	74.00	28.01	PK
	V	4810	45.67	9.24	74.00	28.33	PK
	H	7215	47.23	8.59	74.00	26.77	PK
	V	7215	47.72	8.69	74.00	26.28	PK
M	H	2440	93.29	9.09	114.00	20.71	PK
	V	2440	88.63	9.51	114.00	25.37	PK
	H	4880	46.39	9.13	74.00	27.61	PK
	V	4880	45.66	9.31	74.00	28.34	PK
	H	7320	47.34	8.56	74.00	26.66	PK
	V	7320	47.42	8.66	74.00	26.58	PK
H	H	2480	91.62	9.00	114.00	22.38	PK
	V	2480	87.24	9.40	114.00	26.76	PK
	H	2483.5	53.58	8.98	74.00	20.42	PK
	V	2483.5	48.61	9.39	74.00	25.39	PK
	H	4960	48.67	9.12	74.00	25.33	PK
	V	4960	48.37	9.38	74.00	25.63	PK
	H	7440	46.80	8.52	74.00	27.20	PK
	V	7440	47.47	8.62	74.00	26.53	PK

TEST REPORT

HJSR06:

CH	Antenna	Frequency (MHz)	Corrected Reading (dBμV/m)	Correct Factor (dB/m)	Limit (dBμV/m)	Margin (dB)	Detector
L	H	2405	95.21	9.17	114.00	18.79	PK
	H	2405	88.29	9.17	94.00	5.71	AV
	V	2405	96.47	9.59	114.00	17.53	PK
	V	2405	89.55	9.59	94.00	4.45	AV
	H	2400	55.06	9.19	74.00	18.94	PK
	V	2400	48.57	9.61	74.00	25.43	PK
	H	4810	46.07	9.13	74.00	27.93	PK
	V	4810	45.99	9.24	74.00	28.01	PK
	H	7215	46.81	8.59	74.00	27.19	PK
	V	7215	47.36	8.69	74.00	26.64	PK
M	H	2440	93.74	9.09	114.00	20.26	PK
	V	2440	95.66	9.51	114.00	18.34	PK
	V	2440	88.74	9.51	94.00	5.26	AV
	H	4880	46.57	9.13	74.00	27.43	PK
	V	4880	46.44	9.31	74.00	27.56	PK
	H	7320	47.75	8.56	74.00	26.25	PK
	V	7320	47.27	8.66	74.00	26.73	PK
H	H	2480	94.70	9.00	114.00	19.30	PK
	H	2480	87.78	9.00	94.00	6.22	AV
	V	2480	92.36	9.40	114.00	21.64	PK
	H	2483.5	61.11	8.98	74.00	12.89	PK
	V	2483.5	58.03	9.39	74.00	15.97	PK
	H	4960	47.41	9.12	74.00	26.59	PK
	V	4960	48.63	9.38	74.00	25.37	PK
	H	7440	47.45	8.52	74.00	26.55	PK
	V	7440	47.30	8.62	74.00	26.70	PK

TEST REPORT

HJH115:

CH	Antenna	Frequency (MHz)	Corrected Reading (dBμV/m)	Correct Factor (dB/m)	Limit (dBμV/m)	Margin (dB)	Detector
L	H	2405	90.80	9.17	114.00	23.20	PK
	V	2405	91.01	9.59	114.00	22.99	PK
	H	2400	43.48	9.19	74.00	30.52	PK
	V	2400	46.61	9.61	74.00	27.39	PK
	H	4810	45.38	9.13	74.00	28.62	PK
	V	4810	45.33	9.24	74.00	28.67	PK
	H	7215	48.16	8.59	74.00	25.84	PK
	V	7215	47.38	8.69	74.00	26.62	PK
M	H	2440	88.69	9.09	114.00	25.31	PK
	V	2440	92.26	9.51	114.00	21.74	PK
	H	4880	45.51	9.13	74.00	28.49	PK
	V	4880	45.70	9.31	74.00	28.30	PK
	H	7320	47.16	8.56	74.00	26.84	PK
	V	7320	47.69	8.66	74.00	26.31	PK
H	H	2480	89.38	9.00	114.00	24.62	PK
	V	2480	92.98	9.40	114.00	21.01	PK
	H	2483.5	53.40	8.98	74.00	20.60	PK
	V	2483.5	49.65	9.39	74.00	24.35	PK
	H	4960	47.66	9.12	74.00	26.34	PK
	V	4960	49.19	9.38	74.00	24.81	PK
	H	7440	46.42	8.52	74.00	27.58	PK
	V	7440	47.38	8.62	74.00	26.62	PK

TEST REPORT

HJH116:

CH	Antenna	Frequency (MHz)	Corrected Reading (dBμV/m)	Correct Factor (dB/m)	Limit (dBμV/m)	Margin (dB)	Detector
L	H	2405	88.62	9.17	114.00	25.38	PK
	V	2405	91.27	9.59	114.00	26.20	PK
	H	2400	43.07	9.19	74.00	30.93	PK
	V	2400	48.32	9.61	74.00	25.68	PK
	H	4810	45.20	9.13	74.00	28.80	PK
	V	4810	46.89	9.24	74.00	27.11	PK
	H	7215	46.20	8.59	74.00	27.80	PK
	V	7215	47.26	8.69	74.00	26.74	PK
M	H	2440	90.60	9.09	114.00	23.4	PK
	V	2440	91.12	9.51	114.00	22.88	PK
	H	4880	45.84	9.13	74.00	28.16	PK
	V	4880	47.61	9.31	74.00	26.39	PK
	H	7320	46.36	8.56	74.00	27.64	PK
	V	7320	46.87	8.66	74.00	27.13	PK
H	H	2480	88.67	9.00	114.00	25.33	PK
	V	2480	90.83	9.40	114.00	23.17	PK
	H	2483.5	46.33	8.98	74.00	27.67	PK
	V	2483.5	55.86	9.39	74.00	18.14	PK
	H	4960	45.29	9.12	74.00	28.71	PK
	V	4960	45.97	9.38	74.00	28.03	PK
	H	7440	47.47	8.52	74.00	26.53	PK
	V	7440	46.58	8.62	74.00	27.42	PK

TEST REPORT

HJH106:

CH	Antenna	Frequency (MHz)	Corrected Reading (dBμV/m)	Correct Factor (dB/m)	Limit (dBμV/m)	Margin (dB)	Detector
L	H	2405	86.26	9.17	114.00	27.74	PK
	V	2405	87.55	9.59	114.00	26.45	PK
	H	2400	44.30	9.19	74.00	29.70	PK
	V	2400	45.60	9.61	74.00	28.40	PK
	H	4810	45.73	9.13	74.00	28.27	PK
	V	4810	47.42	9.24	74.00	26.58	PK
	H	7215	46.79	8.59	74.00	27.21	PK
	V	7215	46.40	8.69	74.00	27.60	PK
M	H	2440	88.83	9.09	114.00	25.17	PK
	V	2440	88.44	9.51	114.00	25.56	PK
	H	4880	46.19	9.13	74.00	27.81	PK
	V	4880	45.94	9.31	74.00	28.06	PK
	H	7320	46.81	8.56	74.00	27.19	PK
	V	7320	47.41	8.66	74.00	26.59	PK
H	H	2480	85.72	9.00	114.00	28.28	PK
	V	2480	88.85	9.40	114.00	25.15	PK
	H	2483.5	48.72	8.98	74.00	25.28	PK
	V	2483.5	50.11	9.39	74.00	23.89	PK
	H	4960	45.53	9.12	74.00	28.47	PK
	V	4960	46.45	9.38	74.00	27.55	PK
	H	7440	47.51	8.52	74.00	26.49	PK
	V	7440	47.74	8.62	74.00	26.26	PK

TEST REPORT

HJH109:

CH	Antenna	Frequency (MHz)	Corrected Reading (dBμV/m)	Correct Factor (dB/m)	Limit (dBμV/m)	Margin (dB)	Detector
L	H	2405	89.61	9.17	114.00	24.39	PK
	V	2405	92.43	9.59	114.00	21.57	PK
	H	2400	45.94	9.19	74.00	28.06	PK
	V	2400	50.41	9.61	74.00	23.59	PK
	H	4810	47.04	9.13	74.00	26.96	PK
	V	4810	46.50	9.24	74.00	27.50	PK
	H	7215	47.66	8.59	74.00	26.34	PK
	V	7215	47.36	8.69	74.00	26.64	PK
M	H	2440	89.10	9.09	114.00	24.90	PK
	V	2440	90.53	9.51	114.00	23.47	PK
	H	4880	45.04	9.13	74.00	28.96	PK
	V	4880	47.00	9.31	74.00	27.00	PK
	H	7320	46.68	8.56	74.00	27.32	PK
	V	7320	47.26	8.66	74.00	26.74	PK
H	H	2480	86.27	9.00	114.00	27.73	PK
	V	2480	86.29	9.40	114.00	27.71	PK
	H	2483.5	48.60	8.98	74.00	25.40	PK
	V	2483.5	47.80	9.39	74.00	26.20	PK
	H	4960	46.60	9.12	74.00	27.40	PK
	V	4960	46.02	9.38	74.00	27.98	PK
	H	7440	45.63	8.52	74.00	28.37	PK
	V	7440	47.82	8.62	74.00	26.18	PK

TEST REPORT

HJH73:

CH	Antenna	Frequency (MHz)	Corrected Reading (dBμV/m)	Correct Factor (dB/m)	Limit (dBμV/m)	Margin (dB)	Detector
L	H	2405	92.15	9.17	114.00	21.85	PK
	V	2405	89.19	9.59	114.00	24.81	PK
	H	2400	50.05	9.19	74.00	23.95	PK
	V	2400	44.43	9.61	74.00	29.57	PK
	H	4810	45.84	9.13	74.00	28.16	PK
	V	4810	46.19	9.24	74.00	27.81	PK
	H	7215	46.93	8.59	74.00	27.07	PK
	V	7215	46.49	8.69	74.00	27.51	PK
M	H	2440	92.03	9.09	114.00	21.97	PK
	V	2440	88.67	9.51	114.00	25.33	PK
	H	4880	46.43	9.13	74.00	27.57	PK
	V	4880	45.85	9.31	74.00	28.15	PK
	H	7320	47.32	8.56	74.00	26.68	PK
	V	7320	48.02	8.66	74.00	25.98	PK
H	H	2480	91.35	9.00	114.00	22.65	PK
	V	2480	86.37	9.40	114.00	27.63	PK
	H	2483.5	53.74	8.98	74.00	20.26	PK
	V	2483.5	49.16	9.39	74.00	24.84	PK
	H	4960	45.44	9.12	74.00	28.56	PK
	V	4960	47.19	9.38	74.00	26.81	PK
	H	7440	46.42	8.52	74.00	27.58	PK
	V	7440	47.61	8.62	74.00	26.39	PK

TEST REPORT

HJSR08:

CH	Antenna	Frequency (MHz)	Corrected Reading (dBμV/m)	Correct Factor (dB/m)	Limit (dBμV/m)	Margin (dB)	Detector
L	H	2405	92.34	9.17	114.00	21.66	PK
	V	2405	96.15	9.59	114.00	17.85	PK
	V	2405	90.37	9.59	94.00	3.63	AV
	H	2400	48.87	9.19	74.00	25.13	PK
	V	2400	48.37	9.61	74.00	25.63	PK
	H	4810	45.49	9.13	74.00	28.51	PK
	V	4810	45.88	9.24	74.00	28.12	PK
	H	7215	47.64	8.59	74.00	26.36	PK
	V	7215	47.41	8.69	74.00	26.59	PK
M	H	2440	91.69	9.09	114.00	22.31	PK
	V	2440	96.00	9.51	114.00	18.00	PK
	V	2440	90.22	9.51	94.00	3.78	AV
	H	4880	46.49	9.13	74.00	27.51	PK
	V	4880	46.83	9.31	74.00	27.17	PK
	H	7320	47.09	8.56	74.00	26.91	PK
	V	7320	47.27	8.66	74.00	26.73	PK
H	H	2480	90.71	9.00	114.00	23.29	PK
	V	2480	94.52	9.40	114.00	19.48	PK
	V	2480	88.74	9.40	94.00	5.26	AV
	H	2483.5	50.77	8.98	74.00	23.23	PK
	V	2483.5	56.04	9.39	74.00	17.96	PK
	H	4960	47.94	9.12	74.00	26.06	PK
	V	4960	49.06	9.38	74.00	24.94	PK
	H	7440	46.39	8.52	74.00	27.61	PK
	V	7440	47.63	8.62	74.00	26.37	PK

TEST REPORT

HJSR13:

CH	Antenna	Frequency (MHz)	Corrected Reading (dBμV/m)	Correct Factor (dB/m)	Limit (dBμV/m)	Margin (dB)	Detector
L	H	2405	90.59	9.17	114.00	23.41	PK
	V	2405	94.56	9.59	114.00	19.44	PK
	V	2405	88.78	9.59	94.00	5.22	AV
	H	2400	47.75	9.19	74.00	26.25	PK
	V	2400	51.69	9.61	74.00	22.31	PK
	H	4810	48.79	9.13	74.00	25.21	PK
	V	4810	49.70	9.24	74.00	24.30	PK
	H	7215	48.23	8.59	74.00	25.77	PK
	V	7215	48.42	8.69	74.00	25.58	PK
M	H	2440	90.94	9.09	114.00	23.06	PK
	V	2440	95.02	9.51	114.00	18.98	PK
	V	2440	89.24	9.51	94.00	4.76	AV
	H	4880	47.06	9.13	74.00	26.94	PK
	V	4880	47.30	9.31	74.00	26.70	PK
	H	7320	47.36	8.56	74.00	26.64	PK
	V	7320	47.75	8.66	74.00	26.25	PK
H	H	2480	92.33	9.00	114.00	21.67	PK
	V	2480	95.35	9.40	114.00	18.65	PK
	V	2480	89.57	9.40	94.00	4.43	AV
	H	2483.5	54.47	8.98	74.00	19.53	PK
	V	2483.5	55.81	9.39	74.00	18.19	PK
	H	4960	46.33	9.12	74.00	27.67	PK
	V	4960	47.80	9.38	74.00	26.20	PK
	H	7440	46.84	8.52	74.00	27.16	PK
	V	7440	47.53	8.62	74.00	26.47	PK

TEST REPORT

HJSR14:

CH	Antenna	Frequency (MHz)	Corrected Reading (dBμV/m)	Correct Factor (dB/m)	Limit (dBμV/m)	Margin (dB)	Detector
L	H	2405	93.82	9.17	114.00	20.18	PK
	V	2405	93.17	9.59	114.00	20.83	PK
	H	2400	49.88	9.19	74.00	24.12	PK
	V	2400	48.18	9.61	74.00	25.82	PK
	H	4810	49.33	9.13	74.00	24.67	PK
	V	4810	51.02	9.24	74.00	22.98	PK
	H	7215	48.03	8.59	74.00	25.97	PK
	V	7215	48.18	8.69	74.00	25.82	PK
M	H	2440	91.35	9.09	114.00	22.65	PK
	V	2440	93.32	9.51	114.00	20.68	PK
	H	4880	45.73	9.13	74.00	28.27	PK
	V	4880	48.14	9.31	74.00	25.86	PK
	H	7320	46.50	8.56	74.00	27.50	PK
	V	7320	47.62	8.66	74.00	26.38	PK
H	H	2480	93.42	9.00	114.00	20.58	PK
	V	2480	89.96	9.40	114.00	24.04	PK
	H	2483.5	54.14	8.98	74.00	19.86	PK
	V	2483.5	54.24	9.39	74.00	19.76	PK
	H	4960	46.70	9.12	74.00	27.30	PK
	V	4960	46.69	9.38	74.00	27.31	PK
	H	7440	52.34	8.52	74.00	21.66	PK
	V	7440	52.70	8.62	74.00	21.30	PK

TEST REPORT

HJH95:

CH	Antenna	Frequency (MHz)	Corrected Reading (dBμV/m)	Correct Factor (dB/m)	Limit (dBμV/m)	Margin (dB)	Detector
L	H	2405	84.27	9.17	114.00	29.73	PK
	V	2405	83.13	9.59	114.00	30.87	PK
	H	2400	44.72	9.19	74.00	29.28	PK
	V	2400	49.32	9.61	74.00	24.68	PK
	H	4810	45.36	9.13	74.00	28.64	PK
	V	4810	45.71	9.24	74.00	28.29	PK
	H	7215	47.38	8.59	74.00	26.62	PK
	V	7215	47.07	8.69	74.00	26.93	PK
M	H	2440	87.90	9.09	114.00	26.10	PK
	V	2440	83.77	9.51	114.00	30.23	PK
	H	4880	46.74	9.13	74.00	27.26	PK
	V	4880	46.50	9.31	74.00	27.50	PK
	H	7320	47.98	8.56	74.00	26.02	PK
	V	7320	49.32	8.66	74.00	24.68	PK
H	H	2480	86.56	9.00	114.00	27.44	PK
	V	2480	84.32	9.40	114.00	29.68	PK
	H	2483.5	45.06	8.98	74.00	28.94	PK
	V	2483.5	46.47	9.39	74.00	27.53	PK
	H	4960	47.71	9.12	74.00	26.29	PK
	V	4960	48.22	9.38	74.00	25.78	PK
	H	7440	47.10	8.52	74.00	26.90	PK
	V	7440	46.99	8.62	74.00	27.01	PK

Remark: 1. Correct Factor = Antenna Factor + Cable Loss (+ Amplifier, for higher than 1GHz), the value was added to Original Receiver Reading by the software automatically.
2. Corrected Reading = Original Receiver Reading + Correct Factor
3. Margin = Limit - Corrected Reading
4. If the PK Corrected Reading is lower than AV limit, the AV test can be elided.

Example: Assuming Antenna Factor = 30.20dB/m, Cable Loss = 2.00dB,
Gain of Preamplifier = 32.00dB, Original Receiver Reading = 10.00dBμV,
Limit = 40.00dBμV/m.
Then Correct Factor = 30.20 + 2.00 – 32.00 = 0.20dB/m;
Corrected Reading = 10dBμV + 0.20dB/m = 10.20dBμV/m;
Margin = 40.00dBμV/m - 10.20dBμV/m = 29.80dB.

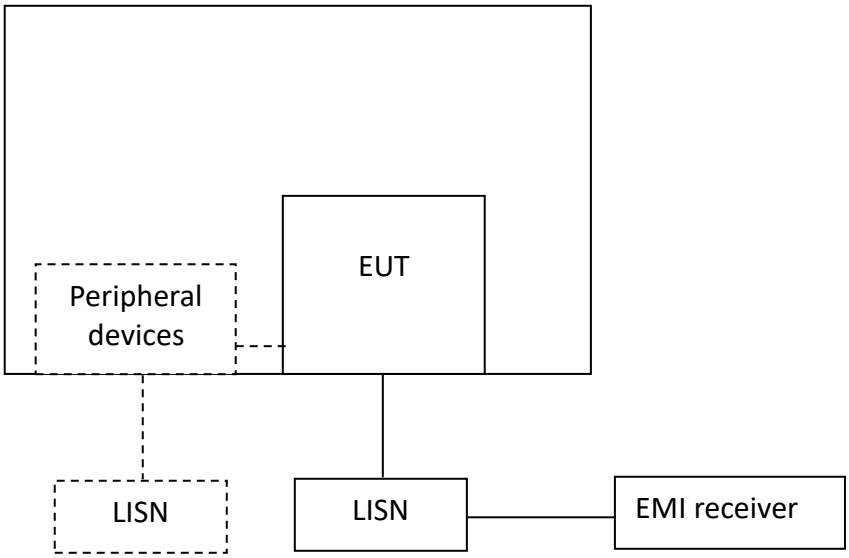
4 Power line conducted emission

Test result: **Pass**

4.1 Limit

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

4.2 Test Configuration



4.3 Measurement Procedure

Measured levels of ac power-line conducted emission shall be the emission voltages from the voltage probe, where permitted, or across the 50 Ω LISN port (to which the EUT is connected), where permitted, terminated into a 50 Ω measuring instrument. All emission voltage and current measurements shall be made on each current-carrying conductor at the plug end of the EUT power cord by the use of mating plugs and receptacles on the LISN, if used. Equipment shall be tested with power cords that are normally supplied or recommended by the manufacturer and that have electrical and shielding characteristics that are the same as those cords normally supplied or recommended by the manufacturer. For those measurements using a LISN, the 50 Ω measuring port is terminated by a measuring instrument having 50 Ω input impedance. All other ports are terminated in 50 Ω loads.

Tabletop devices shall be placed on a platform of nominal size 1 m by 1.5 m, raised 80 cm above the reference ground plane. The vertical conducting plane or wall of an RF-shielded (screened) room shall be located 40 cm to the rear of the EUT. Floor-standing devices shall be placed either directly on the reference ground-plane or on insulating material as described in ANSI C63.4. All other surfaces of tabletop or floor-standing EUTs shall be at least 80 cm from any other grounded conducting surface, including the case or cases of one or more LISNs.

The bandwidth of the test receiver is set at 9 kHz.

4.4 Test Results of Power line conducted emission

N/A.

5 Assigned bandwidth (20dB bandwidth)

Test result: **Pass**

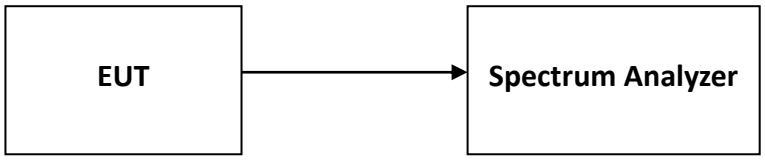
5.1 Limit

Intentional radiators must be designed to ensure that the 20 dB bandwidth of the emission is contained within the allocated frequency band.

5.2 Measurement Procedure

The 20dB Bandwidth is measured using the Spectrum Analyzer.
Set Span = 2 to 3 times the 20 dB bandwidth, RBW = approximately 1% of the 20 dB bandwidth, VBW>RBW, Sweep = auto, Detector = peak, Trace = max hold.
The test was performed at 2 channels (lowest and highest channel).

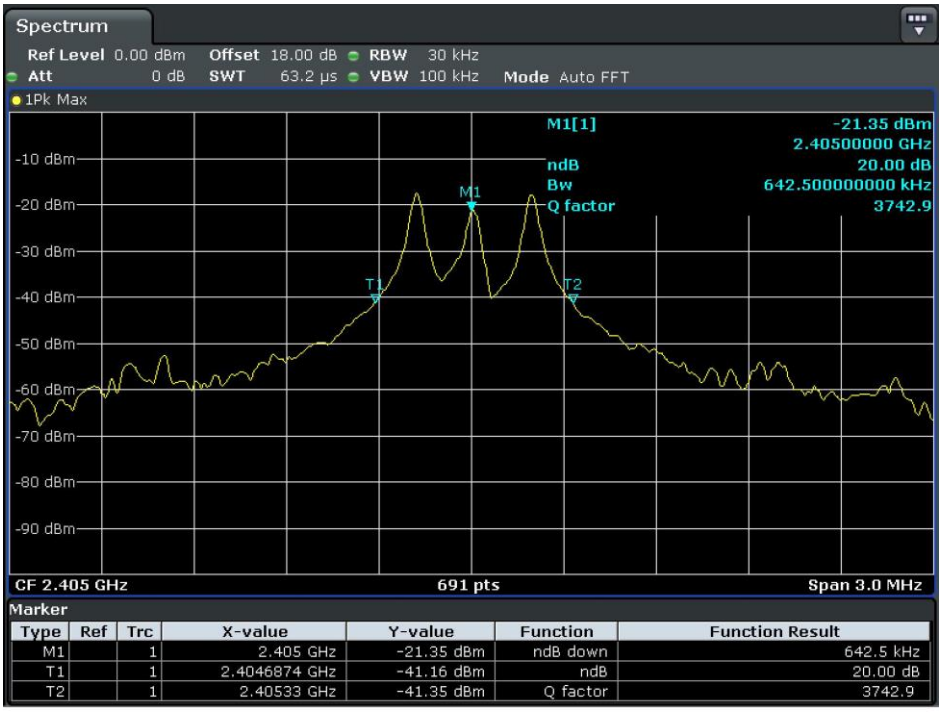
5.3 Test Configuration



5.4 The results

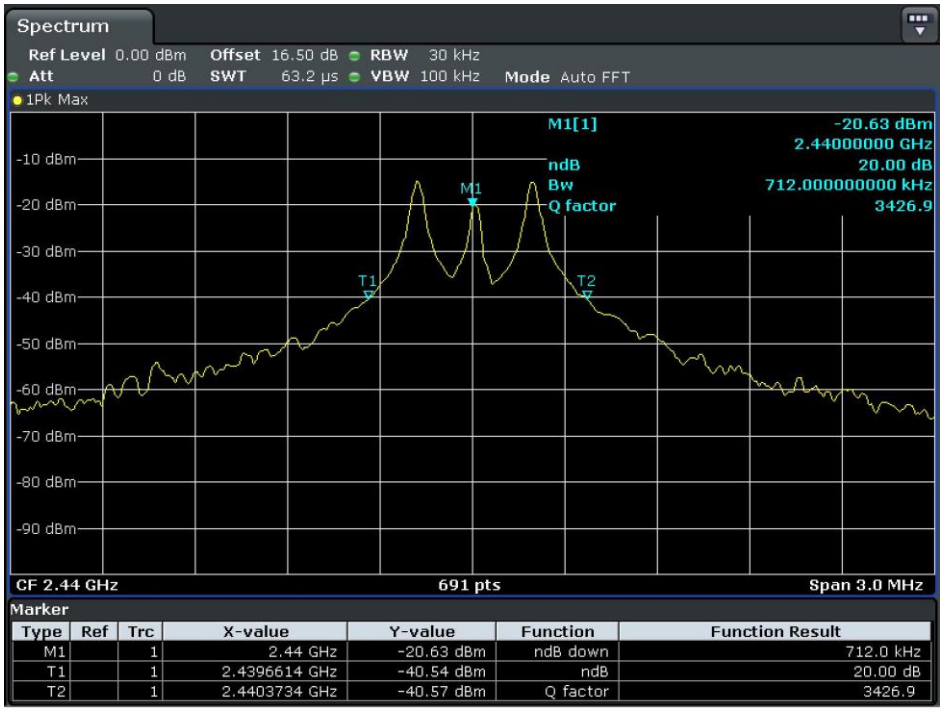
Test Mode	Frequency (MHz)	20dB Bandwidth (MHz)	F_L at 20dB BW (MHz)	F_H at 20dB BW (MHz)
	2405	0.6425	>2400	/
	2440	0.7120	/	/
	2480	0.6816	/	<2483.5
Limit		N/A	F_L >2400	F_H <2483.5
Result		**Complied**		

Channel L



TEST REPORT

Channel M



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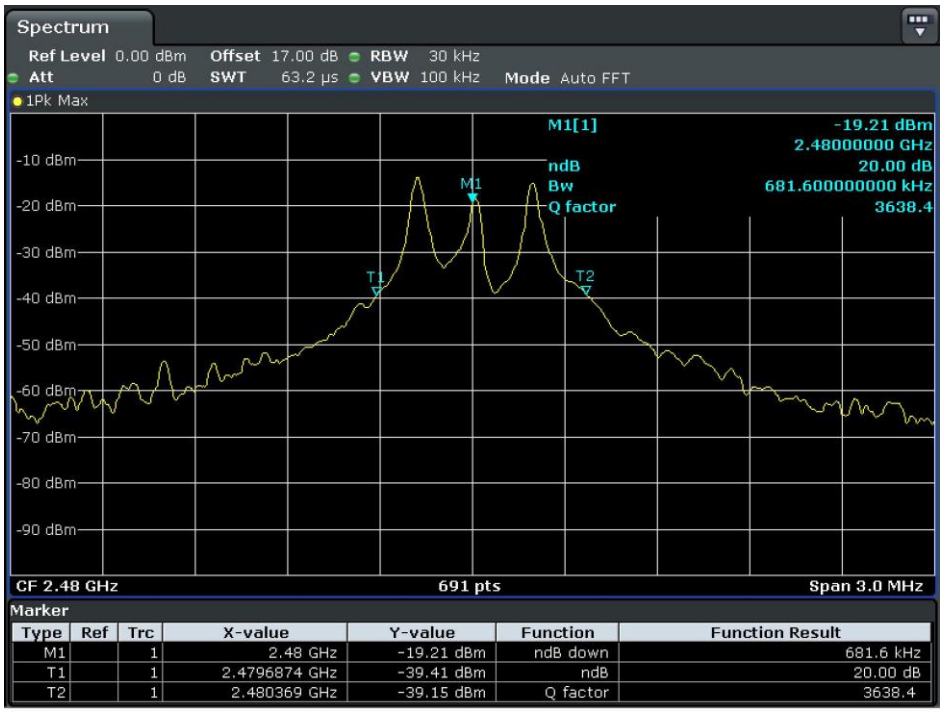
Channel H



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6 Antenna requirement

Requirement:
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.

Result:
EUT uses permanently attached antenna to the intentional radiator, so it can comply with the provisions of this section.

********** END **********