

TEST REPORT

Application No.: SHCR2301000113AT
FCC ID: F15-RV801
Applicant: MICHELIN NORTH AMERICA(US) INC.
Address of Applicant: One Parkway South Greenville South Carolina 29615 United States
Manufacturer: MFP MICHELIN
Address of Manufacturer: 23 Place des Carmes-Deschaux - 63040 Clermont-Fd Cedex9 - France
Factory: Raster Vision Limited (RVL)
Address of Factory: Unit 1, Crunalls, Geddes Hill, Matfield, Tombridge - KENT, TN12 7EA, United Kingdom

Equipment Under Test (EUT):

EUT Name: MEMS 4 LTE/GPS MODULE TRANSCEIVER
Model No.: RV8-01
Trade mark: MICHELIN
Standard(s) : 47 CFR Part 15, Subpart B
Date of Receipt: 2023-01-12
Date of Test: 2023-01-21 to 2023-02-21
Date of Issue: 2023-03-01

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.

Parlam Zhan

Parlam Zhan
Laboratory Manager



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Revision Record			
Version	Description	Date	Remark
00	Original	2023-03-01	/

Authorized for issue by:			
		<i>Wade Zhang</i>	

		Wade Zhang/Project Engineer	
		<i>Parlam Zhan</i>	

		Parlam Zhan/Reviewer	



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2 Test Summary

Emission Part				
Item	Standard	Method	Requirement	Result
Radiated Emissions (30MHz-1GHz)	47 CFR Part 15, Subpart B	ANSI C63.4:2014	15.109(a);Class B	Pass
Radiated Emissions (Above 1GHz)		ANSI C63.4:2014	15.109(g);Class B	Pass



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4 General Information

4.1 Details of E.U.T.

Power supply:	DC 24V
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4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
DC power supply	HP	HP6674A	-
MEMS EVOLUTION 4TRANSCEIVER	MICHELIN	RV5-01	-

4.3 Measurement Uncertainty & Decision Rule

Measurement Uncertainty:

No.	Item	Measurement Uncertainty (U_{Lab})	U_{CISPR}
1	Conducted Emission at mains port using AMN	3.4dB (9kHz to 150kHz)	3.8dB (9kHz to 150kHz)
		2.9dB (150kHz to 30MHz)	3.4dB (150kHz to 30MHz)
2	Conducted Emission at mains port using VP	2.2dB (9kHz to 30MHz)	2.9dB (9kHz to 30MHz)
3	Conducted Emission at telecommunication port using AAN	4.6dB (150kHz to 30MHz)	5.0dB (150kHz to 30MHz)
4	Radiated Power	3.4dB (30MHz to 300MHz)	4.5dB (30MHz to 300MHz)
5	Radiated emission	5.7dB (30MHz-1GHz)	6.3dB (30MHz-1GHz)
		4.8dB (1GHz-6GHz)	5.2dB (1GHz-6GHz)
		5.0dB (6GHz-18GHz)	5.5dB (6GHz-18GHz)
6	Radiated disturbance (disturbance current in a LLAS)	2.6dB (9kHz to 30MHz)	3.3dB (9kHz to 30MHz)

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

Decision Rule:

- CISPR 16-4-2 for emission measurements is as below described.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.

U_{LAB} less than U_{CISPR} , therefore:

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. E&E Lab
588 West Jindu Road, Xinqiao, Songjiang, 201612 Shanghai, China
Tel: +86 21 6191 5666 Fax: +86 21 6191 5678

No tests were sub-contracted.

Note:

1. SGS is not responsible for wrong test results due to incorrect information (e.g. max. clock frequency, highest internal frequency, antenna gain, cable loss, etc) is provided by the applicant. (if applicable).
2. SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (if applicable).

4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• **A2LA (Certificate No. 6332.01)**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. is accredited by the American Association for Laboratory Accreditation(A2LA).

• **FCC (Designation Number: CN1301)**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been recognized as an accredited testing laboratory.

• **ISED (CAB Identifier: CN0020)**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. EMC Laboratory has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory.
Company Number: 8617A

• **VCCI (Member No.: 3061)**

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-13868, C-14336, T-12221, G-10830 respectively.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



5 Equipment List

Radiated Emissions (30MHz-1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI test receiver	Rohde & Schwarz	ESU40	SHEM051-1	2022/12/20	2023/12/19
EMI test receiver	Rohde & Schwarz	ESR7	SHEM201-1	2022/8/02	2023/8/01
CONTROLLER	INNCO	CO2000	SHEM047-1	N/A	N/A
ANTENNA MAST	INNCO	MA400-EP	SHEM047-2	N/A	N/A
TURN DEVICE	INNCO	DE 3600-RH	SHEM047-3	N/A	N/A
Broadband UHF-VHF ANTENNA	SCHWARZBECK	VULB9168	SHEM048-1	2021/9/21	2023/9/20
Broadband UHF-VHF ANTENNA	SCHWARZBECK	VULB9168	SHEM202-1	2021/5/7	2023/5/6
Semi/Fully Anechoic	ST	11*6*6M	SHEM078-2	2020/5/25	2023/5/24
Pre-amplifier	HP	8447D	SHEM236-1	2022/8/02	2023/8/01
Pre-amplifier	HP	8447D	SHEM143-1	2022/12/20	2023/12/19
RE test Cable	/	/	SHEM173-1&SHEM174-1	2023/1/7	2024/1/6
Test Software	ESE	e3	Version: 6.111221a	N/A	N/A

Radiated Emissions (Above 1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI test receiver	Rohde & Schwarz	ESU40	SHEM051-1	2022/12/20	2023/12/19
EMI test receiver	Rohde & Schwarz	ESR7	SHEM201-1	2022/8/02	2023/8/01
CONTROLLER	INNCO	CO2000	SHEM047-1	N/A	N/A
ANTENNA MAST	INNCO	MA400-EP	SHEM047-2	N/A	N/A
TURN DEVICE	INNCO	DE 3600-RH	SHEM047-3	N/A	N/A
Broadband UHF-VHF ANTENNA	SCHWARZBECK	VULB9168	SHEM048-1	2021/9/21	2023/9/20
Broadband UHF-VHF ANTENNA	SCHWARZBECK	VULB9168	SHEM202-1	2021/5/7	2023/5/6
Horn Antenna (1-18GHz)	Schwarzbeck	BBHA9120D	SHEM050-1	2021/9/18	2023/9/17
Pre-amplifier (1-18GHz)	Schwarzbeck	SCU-F0118-G40-BZ4-CSS(F)	SHEM050-2	2022/12/20	2023/12/19
Horn Antenna (1-18GHz)	Schwarzbeck	HF906	SHEM009-1	2022/8/11	2024/8/10
Semi/Fully Anechoic	ST	11*6*6M	SHEM078-2	2020/5/25	2023/5/24
RE test Cable	/	/	SHEM173-1&SHEM174-1	2023/1/7	2024/1/6



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Test Software	ESE	e3	Version: 6.111221a	N/A	N/A
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General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Digital pressure meter	YONGZHI	DYM3-01	SHEM082-1	2021-01-22	2024-01-21
Temperature&humidity recorder	ShangHai weather meter work	ZJ 1-2B	SHEM042-9~10	2022-12-31	2023-12-30
Temperature&humidity recorder	ShangHai weather meter work	ZJ 1-2B	SHEM042-5	2022-08-01	2023-07-31
Digital Temperature& humidity recorder	Jianda Renke	RS-WS-N01-6J	SHEM247-1~8	2023-01-13	2024-01-12
Digital Multimeter	FLUKE	17B+	SHEM271-1	2022-08-26	2023-08-25
Autoformer regulator	Guangzhou bao de	TDGC2-5KVA	SHEM150-1	N/A	N/A
Multi-purpose tong tester	FLUKE	317	SHEM001-2	2022-11-14	2023-11-13



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6 Emission Test Results

6.1 Radiated Emissions (30MHz-1GHz)

Test Requirement: 47 CFR Part 15, Subpart B

Test Method: ANSI C63.4:2014

Limit:

Class B

Test Distance: 3m

30MHz -88MHz 40.0(dBμV/m) quasi-peak

88MHz-216MHz 43.5(dBμV/m) quasi-peak

216MHz-960MHz 46.0(dBμV/m) quasi-peak

960MHz-1000MHz 54.0(dBμV/m) quasi-peak

Detector: Peak for pre-scan (120kHz resolution bandwidth) 30MHz to1000MHz

Class B

Test Distance: 10m

30MHz -88MHz 29.5(dBμV/m) quasi-peak

88MHz-216MHz 33.1(dBμV/m) quasi-peak

216MHz-960MHz 35.6(dBμV/m) quasi-peak

960MHz-1000MHz 43.5(dBμV/m) quasi-peak

Detector: Peak for pre-scan (120kHz resolution bandwidth) 30MHz to1000MHz

6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar

6.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	00	EUT Installed in the Host (RV5-01) and Keep the EUT working at WCDMA Band V receiving mode + GPS receiving Mode.
Pre-scan	01	EUT Installed in the Host (RV5-01) and Keep the EUT working at LTE Band 5 receiving mode + GPS receiving Mode.
Pre-scan	02	EUT Installed in the Host (RV5-01) and Keep the EUT working at idle mode + GPS receiving Mode.
Final test	00	EUT Installed in the Host (RV5-01) and Keep the EUT working at WCDMA Band V receiving mode + GPS receiving Mode.



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EEC EMC Lab

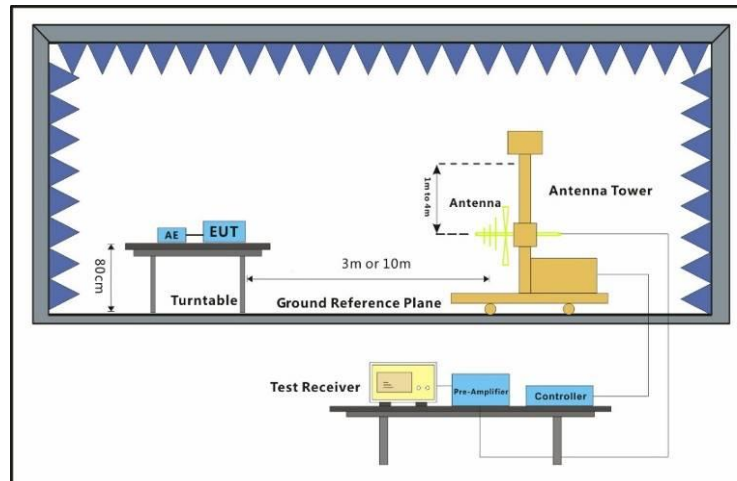
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6.1.3 Test Setup Diagram



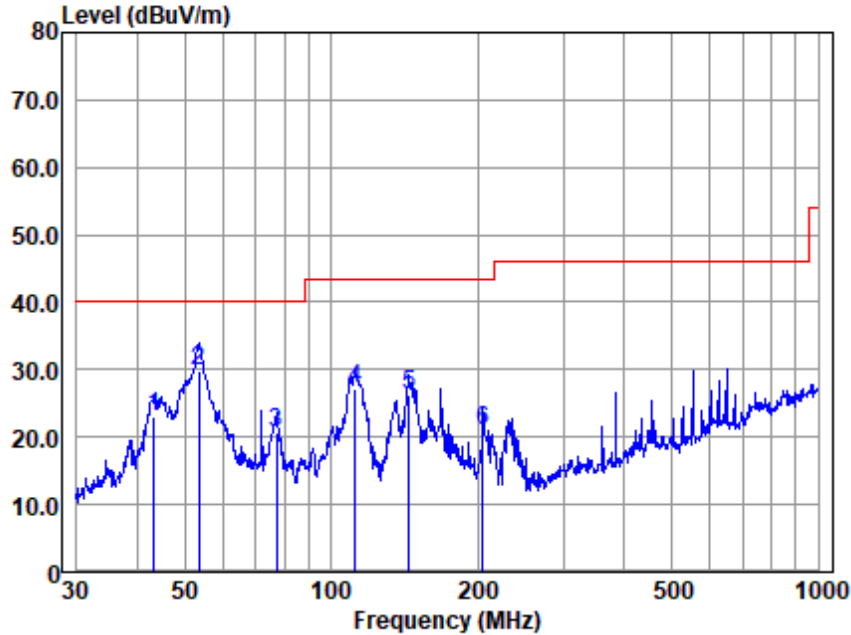
6.1.4 Measurement Procedure and Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.

Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



Test Mode: 00; Polarity: Horizontal



Antenna Polarity :HORIZONTAL
EUT/Project :0108AT
Test mode :00

	Read	Antenna	Cable	Preamp	Emission	Limit	Over		
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark	
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	43.202	34.16	13.63	1.37	26.20	22.96	40.00	-17.04	QP
2	53.505	40.82	13.74	1.49	26.20	29.85	40.00	-10.15	QP
3	77.051	35.05	10.12	1.63	26.10	20.70	40.00	-19.30	QP
4	112.131	42.01	10.52	1.77	27.10	27.20	43.50	-16.30	QP
5	144.335	38.50	12.98	1.94	27.10	26.32	43.50	-17.18	QP
6	204.955	35.48	9.91	2.41	26.71	21.09	43.50	-22.41	QP

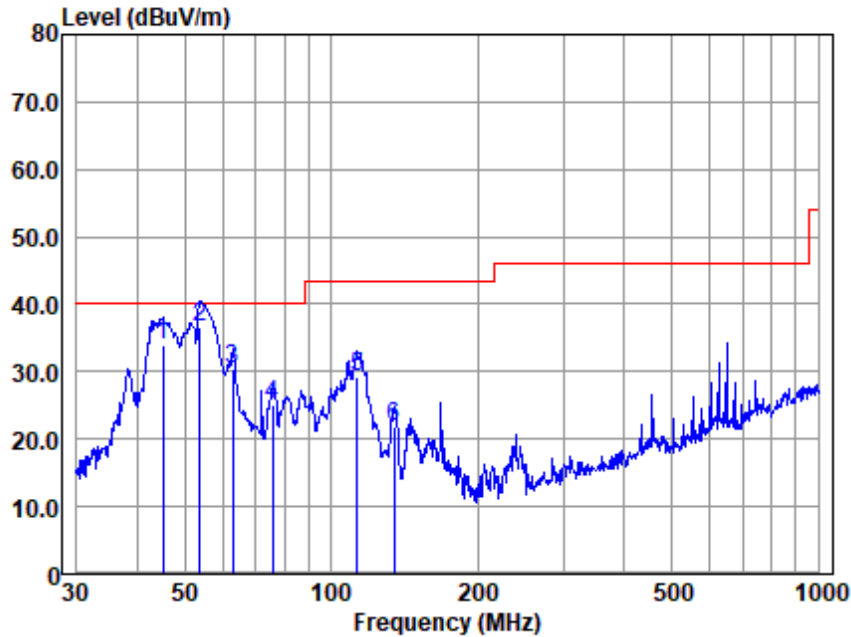
Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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Test Mode: 00; Polarity: Vertical



Antenna Polarity : VERTICAL
EUT/Project : 0108AT
Test mode : 00

	Read	Antenna	Cable	Preamp	Emission	Limit	Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	45.058	13.73	1.40	26.20	34.02	40.00	-5.98	QP
2	53.693	13.73	1.49	26.20	36.58	40.00	-3.42	QP
3	62.871	12.89	1.56	26.18	30.30	40.00	-9.70	QP
4	75.711	10.45	1.62	26.10	25.01	40.00	-14.99	QP
5	112.920	10.62	1.77	27.10	29.13	43.50	-14.37	QP
6	134.559	12.36	1.89	27.10	21.74	43.50	-21.76	QP

Note: Emission Level = Read Level + Antenna Factor + Cable loss - Preamp Factor



6.2 Radiated Emissions (Above 1GHz)

Test Requirement: 47 CFR Part 15, Subpart B

Test Method: ANSI C63.4:2014

Limit:

Class B

Above 1GHz 74(dB μ V/m) peak, 54(dB μ V/m) average

Detector: Peak for pre-scan (1000kHz resolution bandwidth) 100M to18000MHz

6.2.1 E.U.T. Operation

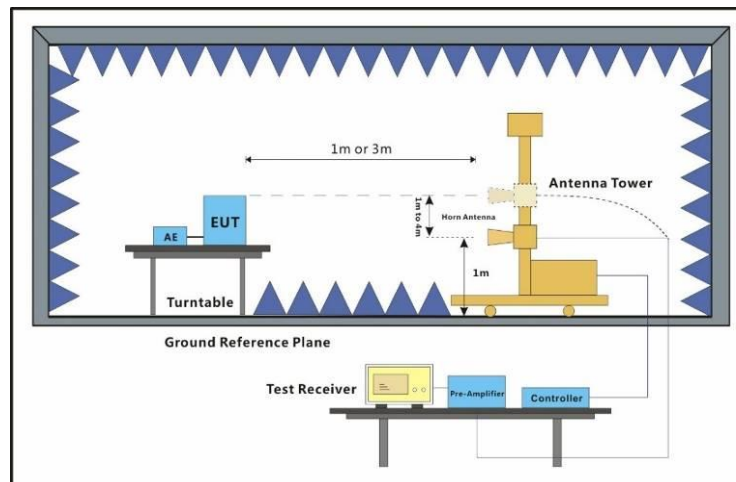
Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar

6.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	00	EUT Installed in the Host (RV5-01) and Keep the EUT working at WCDMA Band V receiving mode + GPS receiving Mode.
Pre-scan	01	EUT Installed in the Host (RV5-01) and Keep the EUT working at LTE Band 5 receiving mode + GPS receiving Mode.
Pre-scan	02	EUT Installed in the Host (RV5-01) and Keep the EUT working at idle mode + GPS receiving Mode.
Final test	00	EUT Installed in the Host (RV5-01) and Keep the EUT working at WCDMA Band V receiving mode + GPS receiving Mode.

6.2.3 Test Setup Diagram



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6.2.4 Measurement Procedure and Data

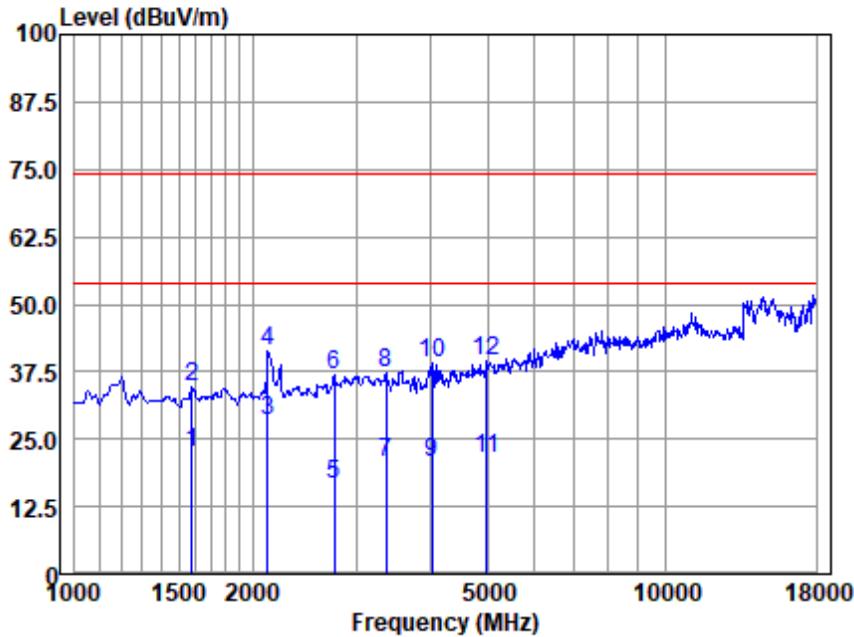
An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Average measurements were conducted based on the peak sweep graph. The EUT was measured by Horn antenna with 2 orthogonal polarities.

The red line show in graphic is the limit in standard used in this section.

Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



Test Mode: 00; Polarity: Horizontal



Antenna Polarity :HORIZONTAL
 EUT/Project :0113AT
 Test mode :00

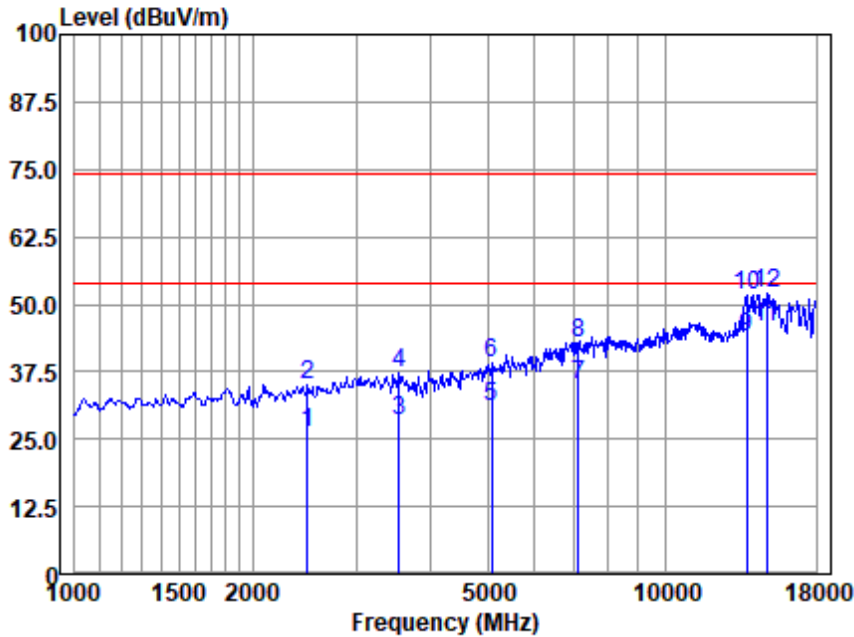
	Read	Antenna	Cable	Preamp	Emission	Limit	Over		
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark	
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1578.822	31.28	25.27	7.29	41.23	22.61	54.00	-31.39	Average
2	1578.822	43.28	25.27	7.29	41.23	34.61	74.00	-39.39	Peak
3	2120.171	35.39	26.09	8.68	41.65	28.51	54.00	-25.49	Average
4	2120.171	48.39	26.09	8.68	41.65	41.51	74.00	-32.49	Peak
5	2750.080	20.51	28.28	10.29	42.40	16.68	54.00	-37.32	Average
6	2750.080	40.89	28.28	10.29	42.40	37.06	74.00	-36.94	Peak
7	3366.778	22.30	29.23	11.57	42.40	20.70	54.00	-33.30	Average
8	3366.778	38.80	29.23	11.57	42.40	37.20	74.00	-36.80	Peak
9	4027.554	19.80	30.42	12.73	42.40	20.55	54.00	-33.45	Average
10	4027.554	38.49	30.42	12.73	42.40	39.24	74.00	-34.76	Peak
11	4988.058	17.20	32.62	13.83	42.40	21.25	54.00	-32.75	Average
12	4988.058	35.26	32.62	13.83	42.40	39.31	74.00	-34.69	Peak

Note: Emission Level = Read Level + Antenna Factor + Cable loss - Preamp Factor



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Test Mode: 00; Polarity: Vertical



Antenna Polarity : VERTICAL
 EUT/Project : 0113AT
 Test mode : 00

	Read	Antenna	Cable	Preamp	Emission	Limit	Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2478.310	32.07	27.22	9.19	42.40	26.08	54.00	-27.92 Average
2	2478.310	41.07	27.22	9.19	42.40	35.08	74.00	-38.92 Peak
3	3546.577	29.46	29.73	11.64	42.40	28.43	54.00	-25.57 Average
4	3546.577	38.46	29.73	11.64	42.40	37.43	74.00	-36.57 Peak
5	5075.317	26.93	32.66	14.01	42.42	31.18	54.00	-22.82 Average
6	5075.317	34.93	32.66	14.01	42.42	39.18	74.00	-34.82 Peak
7	7138.144	26.72	35.25	15.74	42.73	34.98	54.00	-19.02 Average
8	7138.144	34.72	35.25	15.74	42.73	42.98	74.00	-31.02 Peak
9	13717.560	29.25	39.52	18.10	43.05	43.82	54.00	-10.18 Average
10	13717.560	37.25	39.52	18.10	43.05	51.82	74.00	-22.18 Peak
11	14830.960	29.83	39.03	18.81	41.80	45.87	54.00	-8.13 Average
12	14830.960	35.83	39.03	18.81	41.80	51.87	74.00	-22.13 Peak

Note: Emission Level = Read Level + Antenna Factor + Cable loss - Preamp Factor

-- End of the Report --



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