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FEDERAL COMMUNICATIONS COMMISSION

Registration number: 282399

Report No.: GZEM170100044001

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FCC ID: TAPMC-RTW1505M

TEST REPORT

The following sample(s) was/were submitted and identified on behalf of the client as:

Application No.:	GZEM1701000440HS
Applicant:	Guangdong MD Consumer Electric Manufacturing Co., Ltd
Manufacturer:	Guangdong Midea Consumer Electric Manufacturing Co., Ltd
Factory:	Guangdong Midea Consumer Electric Manufacturing Co., Ltd
FCC ID:	TAPMC-RTW1505M
Product Description:	Induction Hob
Model No.:	MC-RTW1505M, MIND179ST-B♣
*	Please refer to section 3 of this report for further details.
Standards:	47 CFR PART 18:2016
Date of Receipt:	2017-01-18
Date of Test:	2017-02-08
Date of Issue:	2017-02-14
Test Result :	Pass*

^{*} In the configuration tested, the EUT detailed in this report complied with the standards specified above.



The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.

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2 Version

Revision Record										
Version	Chapter	Date	Modifier Remark							
00		2017-02-14		Original						

Authorized for issue by:			
Tested By	Zamon Guar	2017-02-08	
	(Damon Guan) / Project Engineer	Date	
Checked By	Terry Lai	2017-02-14	
	(Terry Lai) / Reviewer	Date	



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3 Test Summary

Electromagnetic Interference (EMI)									
Test	Test Requirement	Test Method	Class / Severity	Result					
Conducted Emission (9 kHz to 30 MHz)	47 CFR PART 18:2015	FCC OST/ MP-5:1986	18.307(a)	PASS					
Radiated Emission (9 kHz to 30 MHz)	47 CFR PART 18:2015	FCC OST/ MP-5:1986	18.305(b)	PASS					

Remark:

EUT: In this whole report EUT means Equipment Under Test.

* Model No.: MC-RTW1505M, MIND179ST-B

According to the declaration from the applicant, the electrical circuit design, layout, components used and internal wiring were identical for all models, with only difference being the model name.

Therefore only one model MC-RTW1505M was tested in this report.



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5 General Information

5.1 Client Information

Applicant: Guangdong MD Consumer Electric Manufacturing Co., Ltd

Address of Applicant: 19 Sanle Road, Beijiao, Shunde, Foshan, Guangdong

Manufacturer: Guangdong Midea Consumer Electric Manufacturing Co., Ltd

Address of Manufacturer: 19 Sanle Road, Beijiao, Shunde, Foshan, Guangdong

Factory: Guangdong Midea Consumer Electric Manufacturing Co., Ltd

Address of Factory: 19 Sanle Road, Beijiao, Shunde, Foshan, Guangdong

5.2 General Description of E.U.T.

Product Description: Induction Hob
Model No.: MC-RTW1505M

5.3 Details of E.U.T.

Rated Supply (Voltage): AC120V 60Hz

Max Power: 1500W

Power Cable: 1.5m x 2 wires unscreened AC mains cable.

Inductive operating frequency: 25 kHz

5.4 Description of Support Units

The EUT has been tested with water as load, and specified vessel supplied by client.

5.5 Deviation from Standards

None.

5.6 General Test Climate During Testing

Temperature: 15-30 °C Humidity: 30~70 %RH Atmospheric Pressure: 860-1060 mbar

5.7 Abnormalities from Standard Conditions

None.

5.8 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory, 198 Kezhu Road, Scientech Park, Guangzhou Economic & Technology Development District,

Guangzhou, China 510663

Tel: +86 20 82155555 Fax: +86 20 82075059

No tests were sub-contracted.



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5.9 Test Facility

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

NVLAP (Lab Code: 200611-0)

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

ACM A

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our NVLAP accreditation.

• SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

• CNAS (Lab Code: L0167)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2006 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of Testing Laboratories.

• FCC (Registration No.: 282399)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 282399, May 31, 2002.

• Industry Canada (Registration No.: 4620B-1)

The 3m/10m Alternate Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Certification and Engineering of Industry Canada for radio equipment testing with Registration No. 4620B-1.

VCCI (Registration No.: R-2460, C-2584, G-449 and T-1179)

The 10m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services Co. Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-2460, C-2584, G-449 and T-1179 respectively.

CBTL (Lab Code: TL129)

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2005, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.



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6 Equipment List

30.144010	ed Emission				Cal. date	Cal.Due date
No.	Test Equipment	Manufacturer	Model No.	Serial No.		
	• •				(YYYY-MM-DD)	(YYYY-MM-DD)
EMC0306	Shielding Room	Zhong Yu	8 x 3 x 3.8 m ³	N/A	N/A	N/A
EMC0118	Two-line v-netwok	R&S	ENV216	100359	2017-01-20	2018-01-19
EMC0102	LISN	SCHAFFNER CHASE	MN2050D/1	1421	2016-09-20	2017-09-19
EMC0506	EMI Test Receiver	Rohde & Schwarz	ESCS30	100085	2016-12-02	2017-12-01
EMC0107	Coaxial Cable	SGS	2m	N/A	2016-07-24	2018-07-23
EMC0106	Voltage Probe	SGS	N/A	N/A	2016-04-05	2018-04-04
EMC0120	8 Line ISN	Fischer Custom Communications	FCC-TLISN-T8- 02	20550	2016-09-26	2017-09-25
EMC0121	4 Line ISN	Fischer Custom Communications	FCC-TLISN-T4- 02	20549	2016-09-28	2017-09-27
EMC0122	2 Line ISN	Fischer Custom Communications	FCC-TLISN-T2- 02	20548	2016-09-26	2017-09-25
EMC2047	CDN	Elektronik- Feinmechanik	L-801:AF2	2793	2015-09-19	2018-09-18
EMC2048	CDN	Elektronik- Feinmechanik	L-801:M2/M3	2738	2015-09-25	2018-09-24
EMC2062	6dB Attenuator	HP	8491A	24487	2016-04-05	2018-04-04
EMC0167	Conical metal housing	SGS-EMC	N/A	N/A	2016-04-19	2018-04-18



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RE in Cha	amber					
No.	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. date	Cal.Due date
NO.	rest Equipment	Equipment Mandiacture Model No. Serial N		Seriai No.	(YYYY-MM-DD)	(YYYY-MM-DD)
EMC0525	Compact Semi- Anechoic Chamber	ChangZhou ZhongYu	N/A	N/A	2016-12-04	2019-12-03
EMC0522	EMI Test Receiver	Rohde & Schwarz	ESIB26	100283	2017-01-20	2018-01-19
EMC0056	EMI Test Receiver	Rohde & Schwarz	ESCI	100236	2017-01-20	2018-01-19
EMC0528	RI High frequency Cable	SGS	20 m	N/A	2016-04-19	2018-04-18
EMC2025	Trilog Broadband Antenna 30-1000MHz	SCHWARZBECK MESS- ELEKTRONIK	VULB 9160	9160-3372	2016-09-08	2019-09-07
SEM003- 18	Trilog Broadband Antenna 25-2000MHz	SCHWARZBECK MESS- ELEKTRONIK	VULB 9168	665	2016-06-29	2019-06-28
EMC0524	Bi-log Type Antenna	Schaffner -Chase	CBL6112B	2966	2016-09-08	2019-09-07
EMC0519	Bilog Type Antenna	Schaffner -Chase	CBL6143	5070	2014-05-04	2017-05-03
EMC2026	Horn Antenna 1-18GHz	SCHWARZBECK MESS- ELEKTRONIK	BBHA 9120D	9120D-841	2016-09-09	2019-09-08
EMC0521	1-26.5 GHz Pre-Amplifier	Agilent	8449B	3008A01649	2017-01-20	2018-01-19
EMC2065	Amplifier	HP	8447F	N/A	2016-07-04	2017-07-03
EMC2086	PRE AMPLIFIER MH648A	ANRITSU CORP	MH648A	N/A	2016-12-02	2017-12-01
EMC2063	Pre-amplifier 1GHz- 26GHz	Compliance Direction Systems Lnc.	PAP-1G26-48	6279.628	2016-12-02	2017-12-01
EMC0523	Active Loop Antenna	EMCO	6502	42963	2016-02-27	2018-02-26
EMC2041	Broad-Band Horn Antenna (14)15-26.5(40)GHz	SCHWARZBECK MESS- ELEKTRONI	BBHA 9170	9170-375	2014-05-26	2017-05-25
EMC2079	High Pass Filter(915MHz)	FSY MICROWAVE	HM1465-9SS	009	2017-01-20	2018-01-19
EMC2069	2.4GHz Filter	Micro-Tronics	BRM 50702	149	2017-01-20	2018-01-19
EMC0530	10m Semi- Anechoic Chamber	ETS	N/A	N/A	2016-04-30	2018-04-29

General used equipment										
No.	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. date	Cal.Due date				
	rest Equipment	Maridiacturei	Model No.	Serial No.	(YYYY-MM-DD)	(YYYY-MM-DD)				
EMC0006	DMM	Fluke	73	70681569	2016-09-01	2017-08-31				
EMC0007	DMM	Fluke	73	70671122	2016-08-22	2017-08-21				



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7 Emission Test Results

7.1 Conducted Emissions, 9 kHz to 30 MHz

Test Requirement: 47 CFR PART 18
Test Method: FCC OST/ MP-5

Test Date: 2017-02-08

Power Supply: AC 120V 60Hz

Frequency Range: 9 kHz to 30 MHz

Detector: Peak for pre-scan, Quasi-Peak and Average for the final result.

(200 Hz Resolution Bandwidth for 9 kHz to 150 kHz, 9 kHz Resolution Bandwidth for 150 kHz to 30 MHz)

Limit:

Frequency range MHz	AC mains terminals $dB \; (\mu V)$				
	Quasi-peak	Average			
0.009 to 0.05	110	_			
0.05 to 0.15	90 to 80 [*]	_			
0.15 to 0.5	66 to 56 [*]	56 to 46 [*]			
0.5 to 5	56	46			
5 to 30	60	50			

Note1: The limit decreases linearly with the logarithm of the frequency in the range 0.05 MHz to 0.5

Note2: The lower limit is applicable at the transition frequency.

7.1.1 E.U.T. Operation

Pre-test the EUT in heating mode setting at maximum, medium and minimum power.

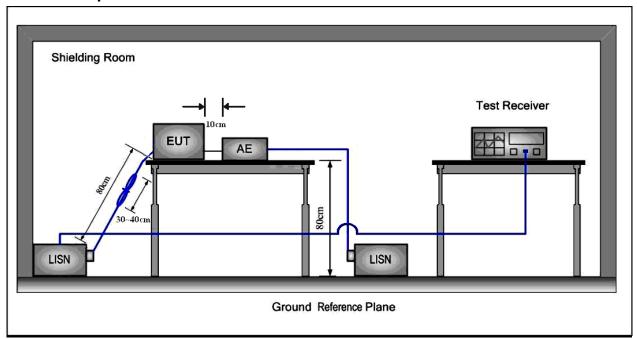
Test the EUT in heating mode setting at maximum power. For the compliance test as the worst case was found.



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7.1.2 Test Setup and Procedure



- The mains terminal disturbance voltage test was conducted in a shielded room.
- 2. The EUT was connected to nominal power supply through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
 - 3. The tabletop EUT was placed upon a non-metallic table 1 m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, but separated from metallic contact with the ground reference plane by 0.1m of insulation.
 - 4. The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISN mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.



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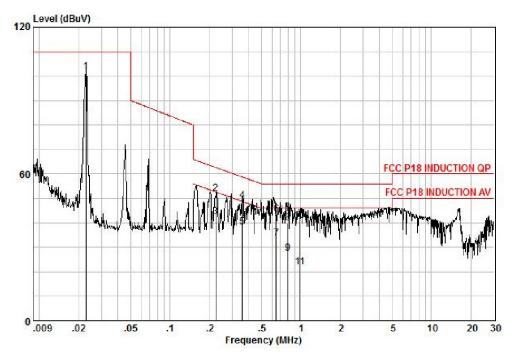
7.1.3 Measurement Data

Pre-scan was performed with peak detected on both live and neutral cable. Quasi-peak & average measurements were performed at the frequencies which maximum peak emission level was detected.

Please see the attached Quasi-peak and Average test results.

Live line:

Peak Scan



Quasi-peak and Average measurement:

Frequency MHz	read level dBuV	Cable Loss dB	LISN Factor dB	Measured Tevel dBuV	Limit Line dBuV	Over limit dB	Remark
0,02	91,60	0,10	9,96	101,66	110,00	-8,34	QP
0,22	42,28	0,11	9,70	52,09	62,66	-10,57	QP
0,22	32,56	0,11	9,70	42,37	52,66	-10,29	AVERAGE
0,36	39,12	0,16	9,69	48,97	58,78	-9,81	QP
0,36	28,52	0,16	9,69	38,37	48,78	-10,41	AVERAGE
0,65	33,58	0,24	9,70	43,52	56,00	-12,48	QP
0,65	23,60	0,24	9,70	33,54	46,00	-12,46	AVERAGE
0,80	29,84	0,27	9,70	39,81	56,00	-16,19	QP
0,80	17,36	0,27	9,70	27,33	46,00	-18,67	AVERAGE
0,99	30,92	0,30	9,72	40,93	56,00	-15,07	QP
0,99	11,78	0,30	9,72	21,79	46,00	-24,21	AVERAGE

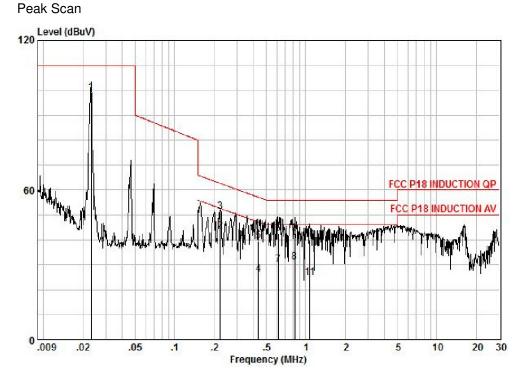
Level = Read Level + LISN Factor + Cable Loss.



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Neutral line:



Quasi-peak and Average measurement:

Frequency	read level	Loss	LISN Factor	Measured Tevel	Limit Line	Over limit	Remark
MHz 0,02	dBuV 89,08	dB 0,10	dB 9,81	dB∪V 98,99	dBoV 110,00	dB -11,01	QP
0,22	33,93	0,11	9,56	43,60	52,70	-9,10	AVERAGE
0,22	41,60	0,11	9,56	51,27	62,70	-11,43	QP
0,44	16,56	0,19	9,55	26,30	47,11	-20,81	AVERAGE
0,44	29,72	0,19	9,55	39,46	57,11	-17,65	QP
0,62	32,88	0,23	9,54	42,65	56,00	-13,35	QP
0,62	20,25	0,23	9,54	30,02	46,00	-15,98	AVERAGE
0,82	21,13	0,27	9,55	30,95	46,00	-15,05	AVERAGE
0,82	32,62	0,27	9,55	42,44	56,00	-13,56	QP
1,07	29,90	0,30	9,56	39,76	56,00	-16,24	QP
1,07	14,91	0,30	9,56	24,77	46,00	-21,23	AVERAGE

Level = Read Level + LISN Factor + Cable Loss.



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7.2 Radiated Emissions, 9 kHz to 30 MHz

Test Requirement: 47 CFR PART 18
Test Method: FCC OST/ MP-5
Power Supply: AC 120V 60Hz
Test Date: 2017-02-08
Frequency Range: 9 kHz to 30 MHz

Measurement Distance: 10 m

Detector: Peak for pre-scan, Average for the final result

(200 Hz Resolution Bandwidth for 9 kHz to 150 kHz 9 kHz Resolution Bandwidth for 150 kHz to 30 MHz)

Limit:

 Equipment
 Operating frequency
 RF Power generated by equipment (watts)
 Field strength limit (uV/m)
 Distance (meters)

 Induction cooking ranges
 Below 90 kHz
 Any
 1,500
 430

 On or above 90 kHz
 Any
 300
 430

For Induction cooking ranges and the operating frequency is below 90

kHz, the field strength limit is 1,500 μV/m@30m,

i.e. 20lg (1500)+20lg(30/10)=63.52+9.54=73.06dBuV/m @ 10m

distance.

7.2.1 E.U.T. Operation

Pre-test the EUT in heating mode setting at maximum, medium and minimum power.

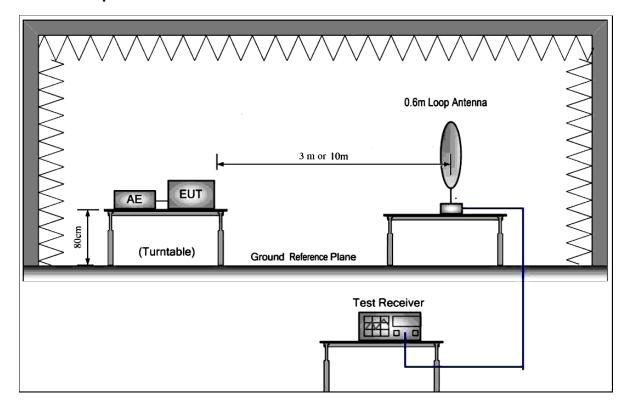
Test the EUT in heating mode setting at maximum power. For the compliance test as the worst case was found.



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7.2.2 Test Setup and Procedure



- 1. The magnetic emissions test was conducted in a semi-anechoic chamber.
- 2. The EUT was connected to AC power source through a mains power outlet which was bonded to the ground reference plane; The mains cables shall drape to the ground reference plane.
- 3. The tabletop EUT was placed upon a non-metallic table 1 m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, but separated from metallic contact with the ground reference plane by 0.1m of insulation.
- Before final measurements of magnetic emissions, a pre-scan was performed in the spectrum mode with the peak detector to find out the maximum emission spectrum signature data plots of the EUT.

The frequencies of maximum emission were determined in the final magnetic emissions measurement, The physical arrangement of the test system and associated cabling was varied in order to determine the effect on the EUT's emissions in amplitude, direction and frequency. At each frequency, the EUT was rotated 360°, the antenna was supported in the vertical plane and be rotatable about a vertical axis. The antenna height was set at around 2 m above the ground reference plane.



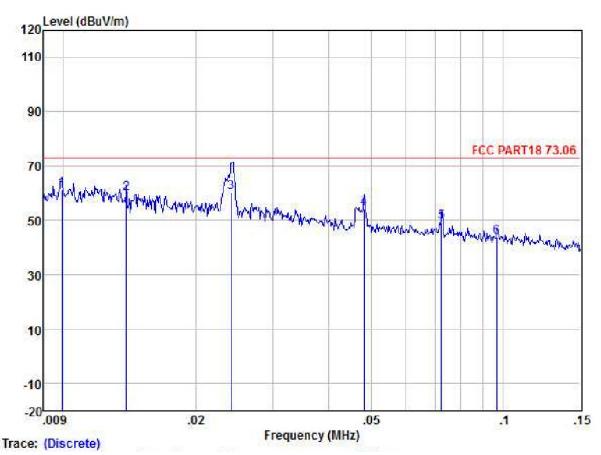
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7.2.3 Measurement Data

9KHz-150KHz Vertical:

Peak scan



Average measurement

	Freq		Antenna Factor		The second secon		Limit Line	Over Limit	Pol/Phase	Remark
ä	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		-
	0.010	68.69	21.90	0.10	29.20	61.49	73.06	-11.57	VERTICAL	Average
	0.014	69.08	19.84	0.10	29.20	59.82	73.06	-13.24	VERTICAL	Average
	0.024	73.15	16.51	0.00	29.24	60.42	73.06	-12.64	VERTICAL	Average
	0.048	71.01	12.77	0.10	29.40	54.48	73.06	-18.58	VERTICAL	Average
	0.072	65.69	12.89	0.05	29.34	49.29	73.06	-23.77	VERTICAL	Average
	0.097	60.28	12.99	0.00	29.30	43.97	73.06	-29.09	VERTICAL	Average

Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor.

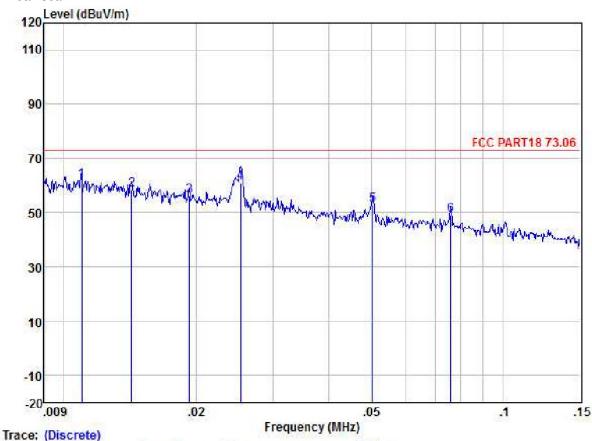


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Horizontal:

Peak scan



Average measurement

	Freq		Antenna Factor						Pol/Phase	Remark
S.C	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
	0.011	69.18	21.56	0.10	29.20	61.64	73.06	-11.42	HORIZONTAL	Average
	0.014	68.33	19.31	0.10	29,20	58.54	73.06	-14.52	HORIZONTAL	Average
	0.019	68.19	17.12	0.03	29.20	56.14	73.06	-16.92	HORIZONTAL	Average
	0.025	74.03	16.34	0.00	29.26	61.11	73.06	-11.95	HORIZONTAL	Average
	0.050	69.55	12.70	0.10	29.40	52.95	73.06	-20.11	HORIZONTAL	Average
	0.076	65.56	12.90	0.03	29.33	49.16	73.06	-23.90	HORIZONTAL	Average

Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor.



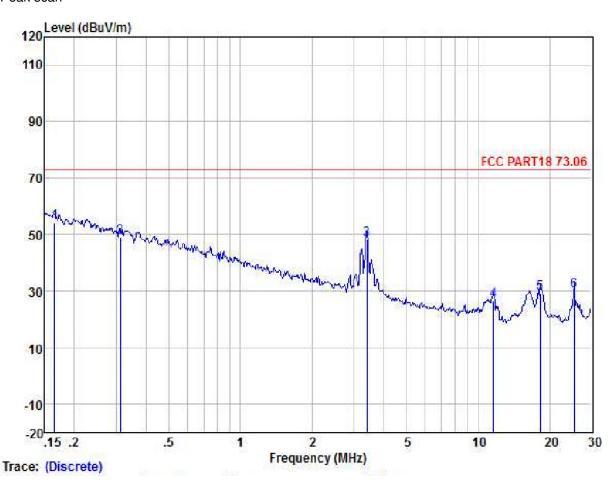
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150KHz-30MHz

Vertical:

Peak scan



Average measurement

Freq			Antenna Factor						Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	7	32	
0.165	70.73	12.89	0.00	29.30	54.32	73.06	-18.74	VERTICAL	QP	
0.312	65.75	12.73	0.02	29.30	49.20	73.06	-23.86	VERTICAL	QP	
3.399	65.33	12.10	0.24	29.20	48.47	73.06	-24.59	VERTICAL	QP	
11.559	44.84	10.52	0.60	29.20	26.76	73.06	-46.30	VERTICAL	QP	
18.232	46.95	10.60	0.70	29.10	29.15	73.06	-43.91	VERTICAL	QP	
25.321	47.87	10.19	0.80	29.00	29.86	73.06	-43.20	VERTICAL	QP	

Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor.

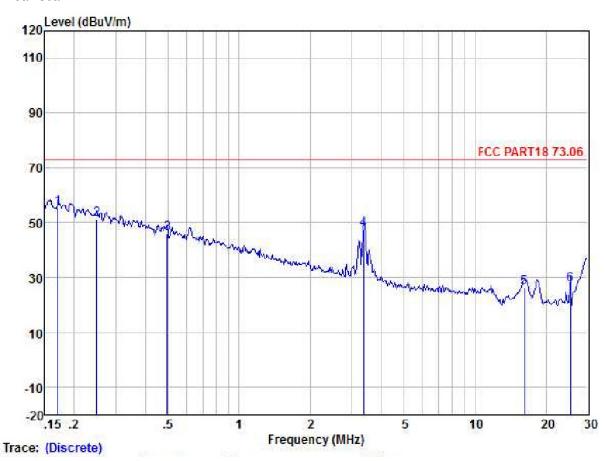


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Horizontal:

Peak scan



Average measurement

Freq			Cable Preamp Loss Factor						Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		2.5
0.170	71.82	12.88	0.00	29.30	55.40	73.06	-17.66	HORIZONTAL	Average
0.249	67.78	12.80	0.00	29,30	51.28	73.06	-21.78	HORIZONTAL	Average
0.497	62.81	12.50	0.10	29.30	46.11	73.06	-26.95	HORIZONTAL	Average
3.364	64.26	12.10	0.24	29.20	47.40	73.06	-25.66	HORIZONTAL	Average
16.226	44.50	10.38	0.62	29.10	26.40	73.06	-46.66	HORIZONTAL	Average
25.321	45.57	10.19	0.80	29.00	27.56	73.06	-45.50	HORIZONTAL	Average

Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor.

--End of Report--