



TEST REPORT nr. R18144701

Federal Communication Commission (FCC)

Test item

Description.....: R1270C – QUARK UP – 500 mW UHF RFID ULTRA COMPACT MODULE
Trademark.....: CAEN RFID
Model/Type: R1270C
FCC ID: UVECAENRFID015

Test Specification

Standard.....: FCC Rules & Regulations, Title 47:2017
Part 15 paragraph: 209

Client's name: CAEN RFID S.r.l.

Address: Via Vetraia, 11 – 55049 Viareggio (LU) – ITALY

Manufacturer's name : Same as client

Address: --

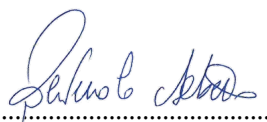
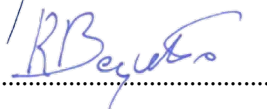
Report

Tested by: A. Bertezolo

Approved by: R. Beghetto – Laboratory Manager

Date of issue: 25.06.18

Contents.....: 118 pages

This test report shall not be reproduced except in full without the written approval of CMC.
The test results presented in this report relate only to the item tested.



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1. Summary

Standard:

FCC Rules & Regulations, Title 47:2017
Part 15 paragraph: 209

Test specifications	Environmental Phenomena	Tests sequence	Result
Part 15.209	Emissions in restricted frequency bands and in unrestricted frequency bands	1	Complies
Part 15.209	Spurious emission	2	Complies

The Test Report was given to the Client representatives for necessary documentation of ratification of the tested equipment and it is valid for the FCC certification



2. Description of Equipment under test (EUT)

Power supply of sample with integrated antenna WANT021XAUFL : 100-240 V ~ 50/60 Hz single-phase
Tests performed on 100 V ~ 60 Hz power supply

Power supply of sample with SMA external antenna WANT021XASMA..... : 100-240 V ~ 50/60 Hz single-phase
Tests performed on 100 V ~ 60 Hz power supply

Power supply of sample with 7R1251IUNFAA antenna..... : 5 Vdc from USB port

Serial number :

Type of equipment : ☒ Transmitter Unit
☐ Receiver Unit

Type of station..... : ☐ Fixed station
☒ Portable station
☐ Mobile station

Frequency band..... : 902 – 928 MHz

Nominal frequencies : F_L: 902,75 MHz F_M: 914,75 MHz F_H: 927,25 MHz

2.1 Test Site

Company : CMC Centro Misure Compatibilità S.r.l.

Address : Via della Fisica, 20
36016 Thiene (VI) – ITALY

Test site facility's FCC registration number : 182474



3. Testing and sampling

Date of receipt of test item : 21.06.18

Testing start date : 21.06.18

Testing end date : 21.06.18

Samples tested nr. : 3

1 sample with integrated antenna WANT021XAUFL

1 sample with SMA external antenna
WANT021XASMA

1 sample with 7R1251IUNFAA antenna

Sampling procedure. : Equipment used for testing was picked up by the manufacturer, at the end of the production process with random criterion

Internal identification : adhesive label with the product numbers P180485 and P180802

4. Operative conditions

EUT exercising : EUT in continuous transmission at maximum power



5. Photograph(s) of EUT

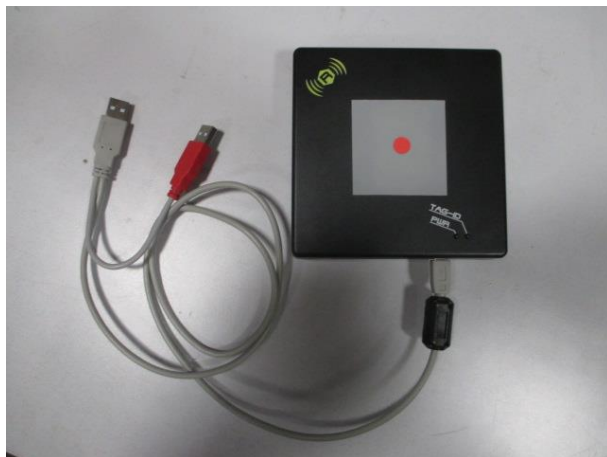
5.1 Photograph(s) of EUT

Sample with integrated antenna WANT021XAUFL





Sample with 7R1251IUNFAA antenna





6. Equipment list

<i>Id. number</i>	<i>Manufacturer</i>	<i>Model</i>	<i>Description</i>	<i>Serial number</i>	<i>Last calibration</i>	<i>Due date calibration</i>
CMC S010	Rohde & Schwarz	ESH3-Z2	Impulses Limiting Device	---	January '18	January '19
CMC S108	EMCO	3115	Horn Antenna	9811-5622	June '16	June '19
CMC S127	Schaffner	HLA6120	Loop Antenna	1191	March '17	March '20
CMC S164	Rohde & Schwarz	ESU26	EMC interference receiver	100052	January '18	January '19
CMC S227	Rohde & Schwarz	ESR7	EMI Test Receiver 7GHz	101121	January '18	January '19
CMC S260	CMC	Wfr_N	Shielded Cable	Wfr_ant10-1	November '17	November '18
CMC S261	CMC	Wfr_N	Shielded Cable	Wfr_ant20-1	November '17	November '18
CMC S262	CMC	Wfr_N_fix	Shielded Cable	Wfr_fix32-1	November '17	November '18
CMC S263	CMC	Wfr_N_fix	Shielded Cable	Wfr_fix31-1	November '17	November '18
CMC S264	CMC	Wfr_N	Shielded Cable	Wfr_ext03-1	November '17	November '18
CMC S271	Schwarzbeck	BBA 9106 + VHBB 9124	Biconical Antenna (30-300MHz)	831	June '16	June '19
CMC S287	Schwarzbeck	VUSLP 9111B	Log-periodic Antenna (200 MHz-3GHz)	9111B-203	June '16	June '19
CMC S288	CMC	W_sma_white	Joint Shielded Cable	W_001	November '17	November '18



7. Measurement uncertainty

Test	Test Setup	Expanded uncertainty	Note
Conducted emission CISPR 16 LISN 50uH 0,009-0,0150MHz	PE001_01	3,4 dB	1
Conducted emission CISPR 16 LISN 50uH 0,150-30,0MHz	PE001_01	2,8 dB	1
Conducted emission CISPR 16 Voltage Probe 0,15-30MHz	PE001_02	2,6 dB	1
Conducted emission CISPR 16 Current Probe 0,15-30MHz	PE001_03	2,2 dB	1
Conducted emission CISPR 16 ISN 0,15-30MHz	PE001_04	4,5 dB	1
Clic CISPR 16 LISN 50uH 0,150-30,0MHz	PE001_05	3,1 dB	1
Disturbance Power 30-300 MHz	PE002_01	3,4 dB	1
Radiated Emission LAS 0,15-30MHz	PE003_01	1,5 dB	1
Radiated Emission CISPR 16 Loop Ant. 0,15-30MHz	PE004_01	3,8 dB	1
Radiated Emission CISPR 16 Bicon. Ant. 30-300MHz	PE004_02	3,3 dB	1
Radiated Emission CISPR 16 LogP. Ant. 300-1000MHz	PE004_03	3,1 dB	1
Radiated Emission CISPR 16 Horn Ant. 1-18GHz	PE004_04	3,6 dB	1
Human Exposure to electromagnetic fields	PE005_01	15,0 %	1
Harmonic current emissions test	PE006_01	10 mA + 1,6 %	1
Voltage fluctuation and flicker test	PE007_01	4,2 %	1
Radiated Immunity 80MHz-6GHz	PE102_XX	2,1 dB 0,82 V/m a 3V/m	1
Conducted Immunity 0,15-230MHz	PE105_XX	1,2 dB 0,44 V a 3V	1
AC Magnetic field	PE106_01	1,55 % 0,15 A/m a 10A/m	1
Pulse Magnetic field	PE107_01	6,24 % 18,7 A/m a 300A/m	1
Dumped Magnetic field	PE108_01	6,24 % 1,87 A/m a 30A/m	1
Common mode conducted immunity	PE112_01	2,20 % 0,22 V a 10V	1



Test	Test Setup	Expanded uncertainty	Note
Power/Spurious 9kHz-30MHz	PR001_01	3,8 dB	1
Power/Spurious ERP 30-1000MHz d=10m	PR001_02+03	4,3 dB	1
Misura della potenza EIRP 1-18GHz d=3m	PR001_04	4,3 dB	1
Misura della potenza EIRP 18-40GHz d=3m	PR001_05	5,5 dB	1
Frequency error	PR002_01+02	$< 1 \times 10^{-7}$	1
Timing zero span (1001pts.)	PR002_01+02	0,2 % SWT	1
Modulation bandwidth	PR002_01+02	$< 1 \times 10^{-7}$	1
Conducted RF power and spurious emission	PR002_01+02	1,2 dB	1
Adjacent channel power	PR002_01+02	1,2 dB	1
Blocking	PR002_01+02	1,2 dB	1

Test	Test Setup	Expanded uncertainty	Note
Electrostatic discharge immunity test	PE101_0X		2
Electrical fast transients / burst immunity test	PE103_0X		2
Surge immunity test	PE104_0X		2
Short interruption immunity test	PE109_01		2
Rev_18_01 date 30/01/2018			

Note 1:

The expanded uncertainty reported according to EN55016-4-2:2011 is based on a standard uncertainty multiplied by a coverage factor of $K=2$, providing a level of confidence of $p = 95\%$

Note 2:

It has been demonstrated that the used test equipment meets the specified requirements in the standard with at least a 95% confidence, covering factor $k = 2$



8. Reference documents

Reference no.	Description
FCC Rules and Regulation Title 47 part 15:2017	--
ANSI C63.4:2014	American National Standard for Methods of Measuring of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz – 40 GHz
ANSI C63.10:2013	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices
KDB 558074 D01 DTS Meas Guidance v04	Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under § 15.247
Internal Procedure PM001 rev. 3.0 (Quality Manual)	Measure Procedure
Internal procedure INC_M rev. 9.0 (Quality Manual)	Measurement uncertainty calculation



9. Deviation from test specification

None

10. Test case verdicts

Test case does not apply to the test object : N.A.

Test item does meet the requirement : Complies

Test item does not meet the requirement : Does not comply

Test not performed : N.E.

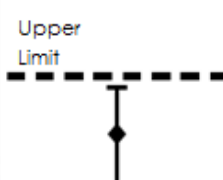
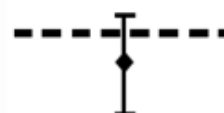


11. Results

In this clause tests results are reported.

Measurement uncertainty is in accordance with document CMC INC_M rev. 9.0.

Judgement of compliance:

Case 1	Case 2	Case 3	Case 4
			
The sample complies with the requirement.	The sample complies with the requirement.	The sample does not comply with the requirement.	The sample does not comply with the requirement.
The measurement results is within the specification limit when the measurement uncertainty is taken into account.	It is not possible to state compliance using a 95% coverage probability for the expanded uncertainty although the measurement result is below the limit.	It is not possible to state compliance using a 95% coverage probability for the expanded uncertainty also the measurement result is upper the limit.	The measurement results is outside the specification limit when the measurement uncertainty is taken into account.

In agreement with ILAC-G8: 03/2009 Guidelines on the Reporting of Compliance with Specification.



11.1 Emissions in restricted frequency bands and in unrestricted frequency bands

Test set-up and execution

- FCC Rules and Regulation; Titles 47 Part. 15.209
- KDB 558074 D01 DTS Meas Guidance v04 cl. 11 and 12
- ANSI C63.10 cl. 6.4, 6.5 and 6.6
- Internal procedure PM001
- See clause 4 of this test report

EUT exercising

See clause 4 of this test report

Test specification

Port: Enclosure
Frequency range: 0,009 – 10000 MHz
Antenna polarization: Horizontal (H) – Vertical (V)
EUT height about the floor:
80 cm for frequencies $\leq$ 1000 MHz
150 cm for frequencies $>$ 1000 MHz
EUT – Antenna distance:
10 m for frequencies $\leq$ 1000 MHz
3 m for frequencies $>$ 1000 MHz

Test configuration

Test site:
Semi-anechoic chamber

Auxiliary equipment:
See clause 4 of this test report

Test equipment used

CMC S164, CMC S241, CMC S251, CMC S290,
CMC S298
Measurement uncertainty: See clause 7 of this
test report

Environmental conditions

Temperature (°C)	Atmospheric pressure (kPa)	Relative humidity (%)
22	100	42

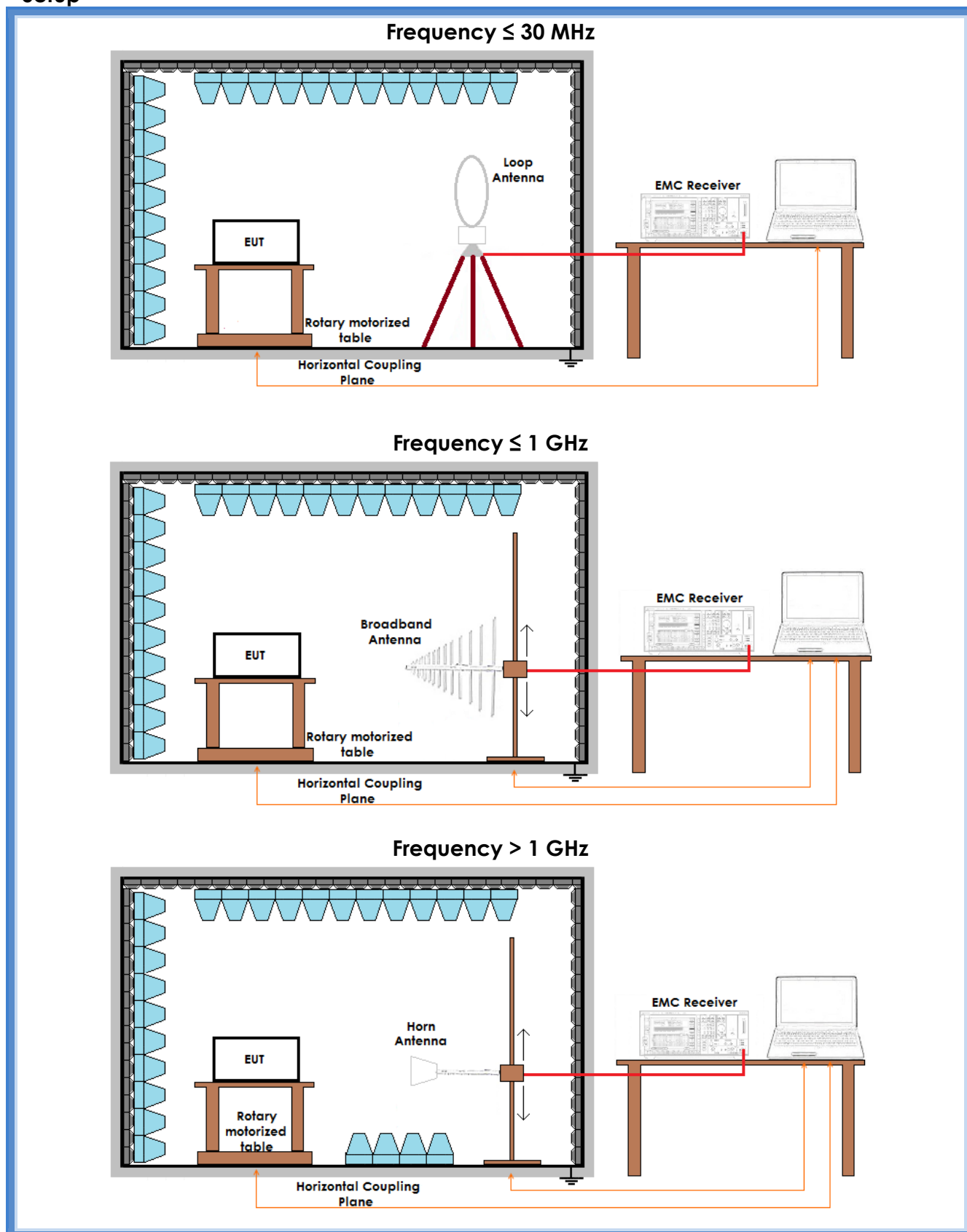


Acceptance limits

Frequency range (MHz)	Limits [dB(μ V/m)]
0,009 to 0,490	118,51 to 83,80
0,490 to 1,705	63,80 to 52,97
1,705 to 30	59,54
30 to 88	30
88 to 216	33,52
216 to 960	36,02
Above 960	43,98

Remarks: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

Setup





Result

Antenna polarization	Transmission channel (MHz)	Frequency Range (MHz)	Graphs	Result
V	902,75	1000 – 10000	G180947001	Complies
H	902,75	1000 – 10000	G180947003	Complies
H	914,75	1000 – 10000	G180947011	Complies
V	914,75	1000 – 10000	G180947012	Complies
V	927,25	1000 – 10000	G180947013	Complies
H	927,25	1000 – 10000	G180947014	Complies
Loop	Worst case	0,009 – 30	G180947017	Complies
H	Worst case	30 – 300	G180947021	Complies
V	Worst case	30 – 300	G180947022	Complies
H	902,75	300 – 1000	G180947023	Complies
V	902,75	300 – 1000	G180947024	Complies
V	914,75	300 – 1000	G180947025	Complies
H	914,75	300 – 1000	G180947026	Complies
H	927,25	300 – 1000	G180947027	Complies
V	927,25	300 – 1000	G180947028	Complies

Remarks:

Tests performed on sample with integrated antenna WANT021XAUFL.
Measurements at frequencies lower than 1000 MHz have been performed with an EUT – antenna distance of 10 m. Measured values have been corrected with different conversion factors, based on the measuring distance provided by the standard.
Peaks above the limits are caused by the nominal transmitting frequencies



Antenna polarization	Transmission channel (MHz)	Frequency Range (MHz)	Graphs	Result
V	902,75	1000 – 10000	G180947006	Complies
H	902,75	1000 – 10000	G180947007	Complies
H	914,75	1000 – 10000	G180947009	Complies
V	914,75	1000 – 10000	G180947010	Complies
V	927,25	1000 – 10000	G180947015	Complies
H	927,25	1000 – 10000	G180947016	Complies
Loop	Worst case	0,009 – 30	G180947018	Complies
V	Worst case	30 – 300	G180947019	Complies
H	Worst case	30 – 300	G180947020	Complies
V	927,25	300 – 1000	G180947029	Complies
H	927,25	300 – 1000	G180947030	Complies
H	914,75	300 – 1000	G180947031	Complies
V	914,75	300 – 1000	G180947032	Complies
V	902,75	300 – 1000	G180947033	Complies
H	902,75	300 – 1000	G180947034	Complies
Remarks: Tests performed on sample with external SMA antenna WANT021XASMA. Measurements at frequencies lower than 1000 MHz have been performed with an EUT – antenna distance of 10 m. Measured values have been corrected with different conversion factors, based on the measuring distance provided by the standard. Peaks above the limits are caused by the nominal transmitting frequencies				



Antenna polarization	Transmission channel (MHz)	Frequency Range (MHz)	Graphs	Result
H	Worst case	30 – 300	G18144701	Complies
V	Worst case	30 – 300	G18144702	Complies
V	914,75	300 – 1000	G18144703	Complies
H	914,75	300 – 1000	G18144704	Complies
H	902,75	300 – 1000	G18144705	Complies
V	902,75	300 – 1000	G18144706	Complies
H	927,25	300 – 1000	G18144707	Complies
V	927,25	300 – 1000	G18144708	Complies
Loop	Worst case	0,009 – 30	G18144709	Complies
V	902,75	1000 – 10000	G18144710	Complies
H	902,75	1000 – 10000	G18144713	Complies
V	914,75	1000 – 10000	G18144714	Complies
H	914,75	1000 – 10000	G18144715	Complies
H	927,25	1000 – 10000	G18144716	Complies
V	927,25	1000 – 10000	G18144717	Complies

Remarks:

Tests performed on sample with 7R1251IUNFAA antenna.

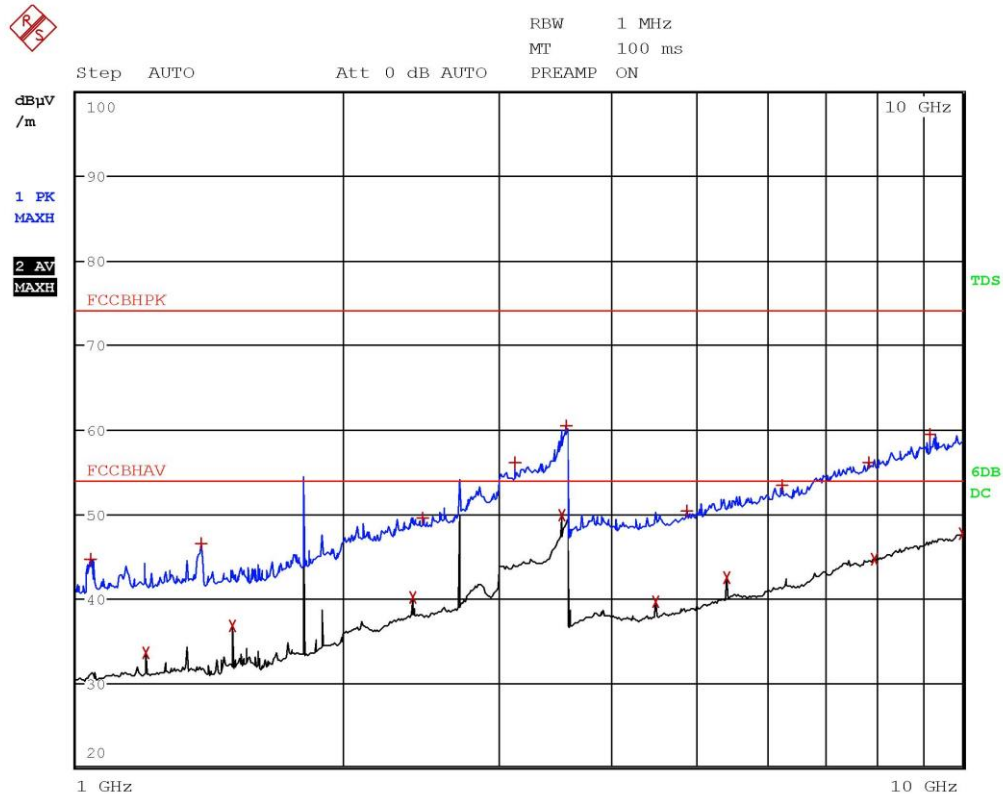
Measurements at frequencies lower than 1000 MHz have been performed with an EUT – antenna distance of 10 m. Measured values have been corrected with different conversion factors, based on the measuring distance provided by the standard.

Peaks above the limits are caused by the nominal transmitting frequencies.

These graphs are the pejorative scans that indicate the frequencies that must be analysed as final measurements after the scan. The final measurements have been performed with AV detector, meas time = 100 ms, only for frequencies where the measured level is higher than the limit and only for the restricted frequency bands



Graphs

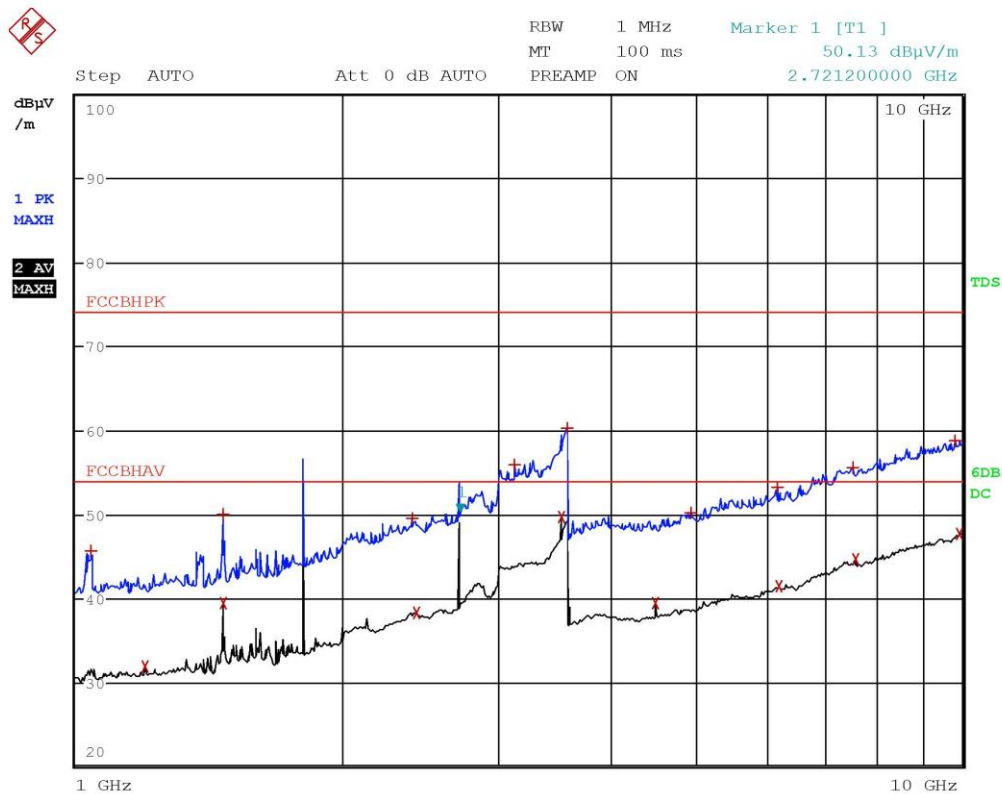


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EDIT PEAK LIST (Prescan Results)			
Trace1:	FCCBHPK		
Trace2:	FCCBHAV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV/m	DELTA LIMIT dB
1 Max Peak	1.0364 GHz	44.68	-29.29
2 Average	1.2 GHz	33.47	-20.50
1 Max Peak	1.3856 GHz	46.42	-27.55
2 Average	1.5 GHz	36.78	-17.19
2 Average	2.3996 GHz	40.10	-13.87
1 Max Peak	2.4564 GHz	49.54	-24.43
1 Max Peak	3.1328 GHz	56.04	-17.93
2 Average	3.5316 GHz	49.81	-4.16
1 Max Peak	3.5684 GHz	60.43	-13.54
2 Average	4.5136 GHz	39.52	-14.45
1 Max Peak	4.8868 GHz	50.41	-23.57
2 Average	5.4164 GHz	42.45	-11.52
1 Max Peak	6.2692 GHz	53.42	-20.55
1 Max Peak	7.85 GHz	56.09	-17.88
2 Average	7.94 GHz	44.60	-9.37
1 Max Peak	9.1984 GHz	59.46	-14.51
2 Average	9.9916 GHz	47.58	-6.39

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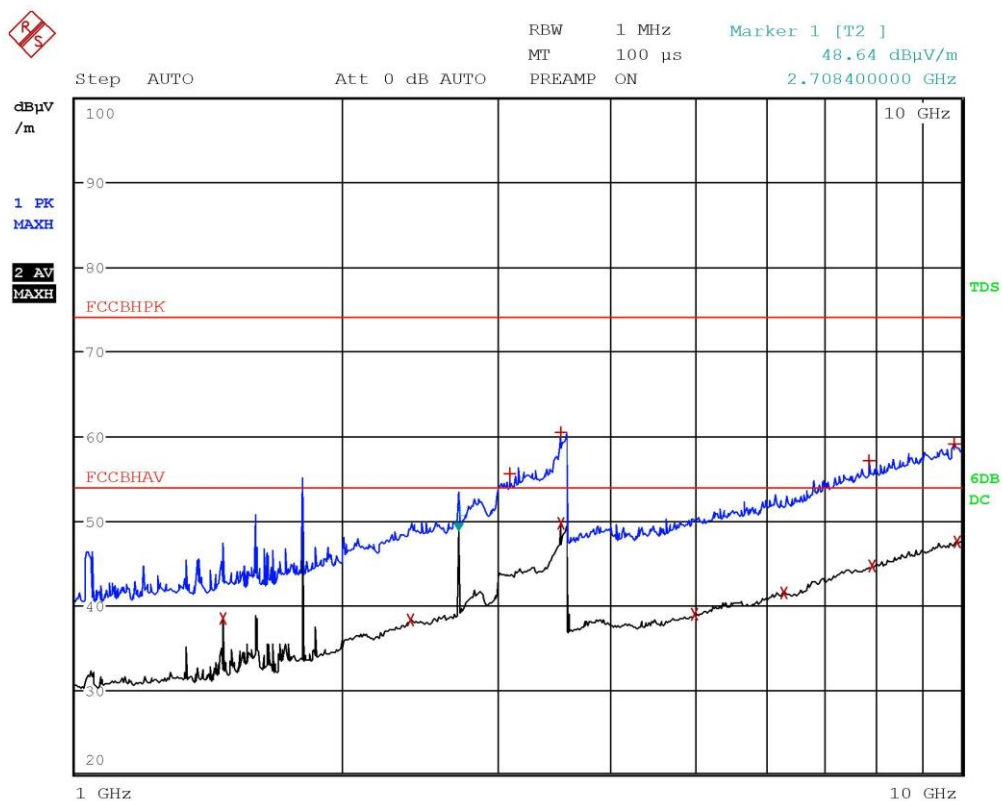


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EDIT PEAK LIST (Prescan Results)			
Trace1:	FCCBHPK		
Trace2:	FCCBHAV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV/m	DELTA LIMIT dB
1 Max Peak	1.042 GHz	45.65	-28.32
2 Average	1.2 GHz	31.86	-22.11
1 Max Peak	1.4672 GHz	49.95	-24.02
2 Average	1.4672 GHz	39.40	-14.57
1 Max Peak	2.3952 GHz	49.50	-24.47
2 Average	2.4212 GHz	38.22	-15.75
1 Max Peak	3.126 GHz	55.83	-18.14
2 Average	3.5316 GHz	49.66	-4.31
1 Max Peak	3.594 GHz	60.20	-13.77
2 Average	4.5136 GHz	39.40	-14.57
1 Max Peak	4.936 GHz	50.16	-23.81
1 Max Peak	6.1896 GHz	53.12	-20.85
2 Average	6.2228 GHz	41.36	-12.62
1 Max Peak	7.528 GHz	55.50	-18.47
2 Average	7.574 GHz	44.57	-9.40
1 Max Peak	9.8236 GHz	58.74	-15.23
2 Average	9.9364 GHz	47.64	-6.33

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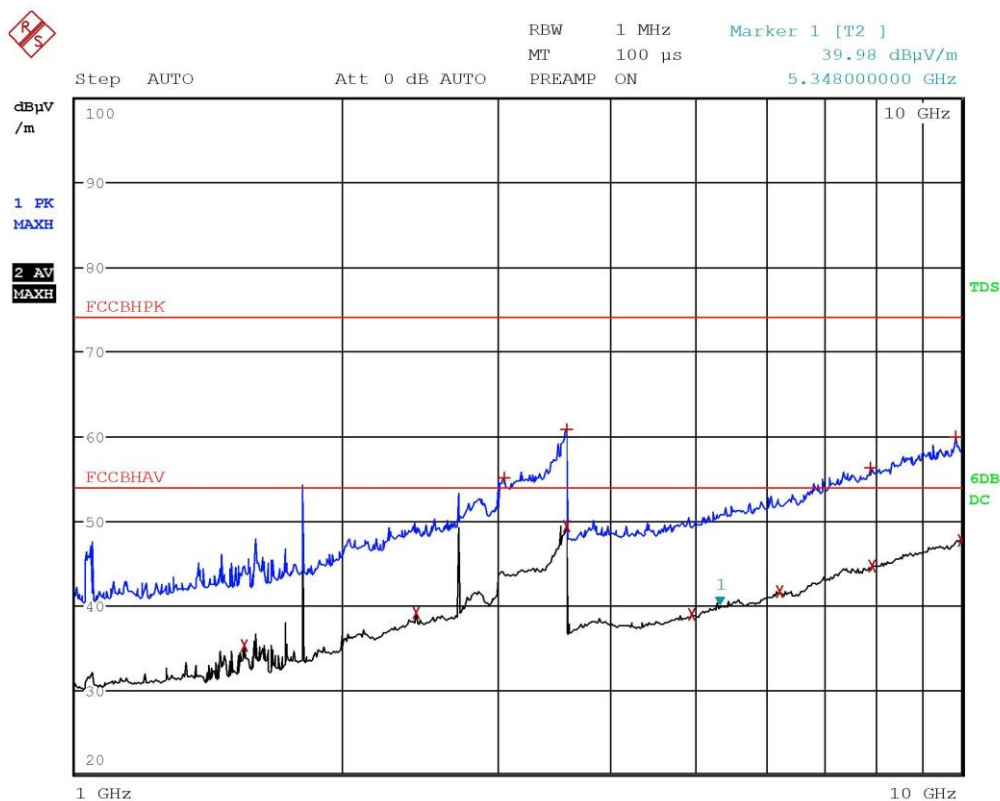


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EDIT PEAK LIST (Prescan Results)				
Trace1:	FCCBHPK			
Trace2:	FCCBHAV			
Trace3:	---			
TRACE	FREQUENCY	LEVEL dBμV/m	DELTA LIMIT dB	
2 Average	1.4668 GHz	38.43	-15.55	
2 Average	2.3844 GHz	38.26	-15.71	
1 Max Peak	3.0936 GHz	55.54	-18.43	
1 Max Peak	3.5316 GHz	60.46	-13.51	
2 Average	3.5316 GHz	49.66	-4.31	
2 Average	5.0012 GHz	38.86	-15.11	
2 Average	6.298 GHz	41.41	-12.56	
1 Max Peak	7.8592 GHz	57.07	-16.90	
2 Average	7.928 GHz	44.53	-9.44	
1 Max Peak	9.8276 GHz	59.09	-14.88	
2 Average	9.8816 GHz	47.55	-6.42	

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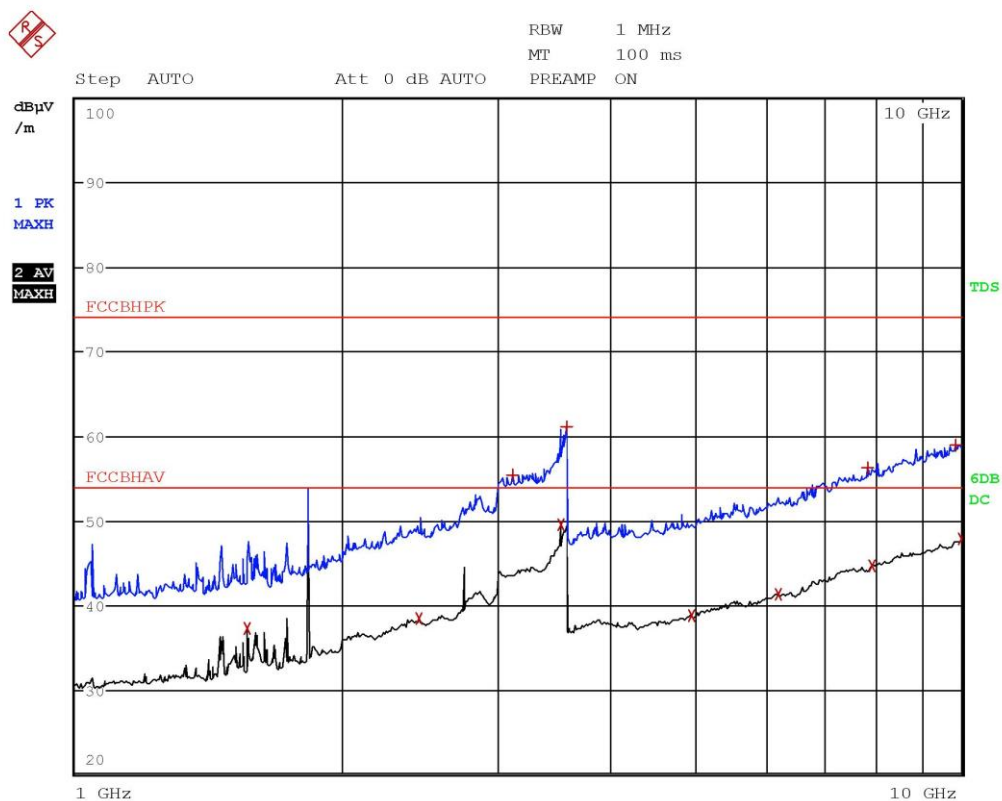


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EDIT PEAK LIST (Prescan Results)				
Trace1:	FCCBHPK			
Trace2:	FCCBHAV			
Trace3:	---			
TRACE	FREQUENCY	LEVEL dBμV/m	DELTA LIMIT dB	
2 Average	1.5536 GHz	35.13	-18.84	
2 Average	2.4284 GHz	39.13	-14.84	
1 Max Peak	3.0492 GHz	55.11	-18.86	
1 Max Peak	3.5904 GHz	60.70	-13.27	
2 Average	3.5996 GHz	49.38	-4.59	
2 Average	4.9532 GHz	38.85	-15.13	
2 Average	6.2364 GHz	41.57	-12.40	
1 Max Peak	7.9104 GHz	56.18	-17.79	
2 Average	7.9304 GHz	44.64	-9.33	
1 Max Peak	9.8464 GHz	59.84	-14.13	
2 Average	9.9908 GHz	47.68	-6.30	

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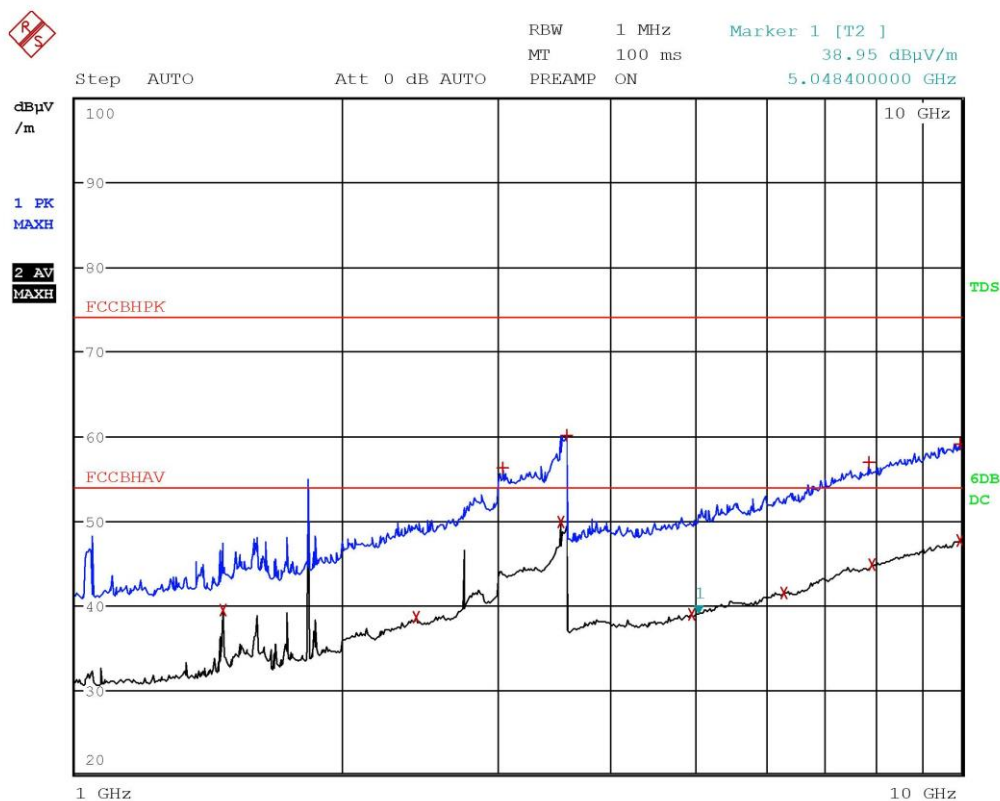


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EDIT PEAK LIST (Prescan Results)			
Trace1:	FCCBHPK		
Trace2:	FCCBHAV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV/m	DELTA LIMIT dB
2 Average	1.5652 GHz	37.22	-16.75
2 Average	2.4396 GHz	38.33	-15.64
1 Max Peak	3.1108 GHz	55.43	-18.54
2 Average	3.5316 GHz	49.49	-4.48
1 Max Peak	3.5904 GHz	61.15	-12.82
2 Average	4.952 GHz	38.81	-15.16
2 Average	6.2044 GHz	41.33	-12.64
1 Max Peak	7.8444 GHz	56.15	-17.82
2 Average	7.9304 GHz	44.64	-9.33
1 Max Peak	9.8508 GHz	58.93	-15.04
2 Average	9.9876 GHz	47.85	-6.12

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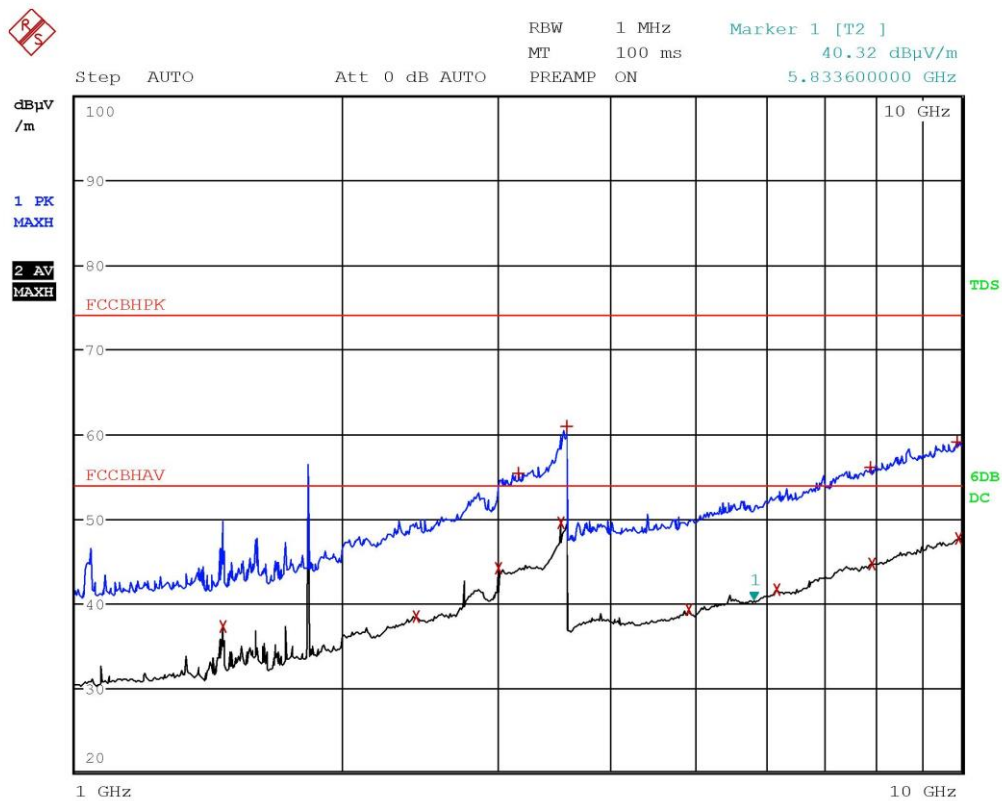


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EDIT PEAK LIST (Prescan Results)			
Trace1:	FCCBHPK		
Trace2:	FCCBHAV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV/m	DELTA LIMIT dB
2 Average	1.4668 GHz	39.40	-14.57
2 Average	2.4256 GHz	38.50	-15.47
1 Max Peak	3.0364 GHz	56.15	-17.82
2 Average	3.5316 GHz	49.88	-4.09
1 Max Peak	3.5888 GHz	60.10	-13.87
2 Average	4.9676 GHz	38.92	-15.05
2 Average	6.3072 GHz	41.40	-12.58
1 Max Peak	7.8616 GHz	56.81	-17.16
2 Average	7.9308 GHz	44.82	-9.15
1 Max Peak	9.9672 GHz	59.10	-14.87
2 Average	9.9776 GHz	47.57	-6.40

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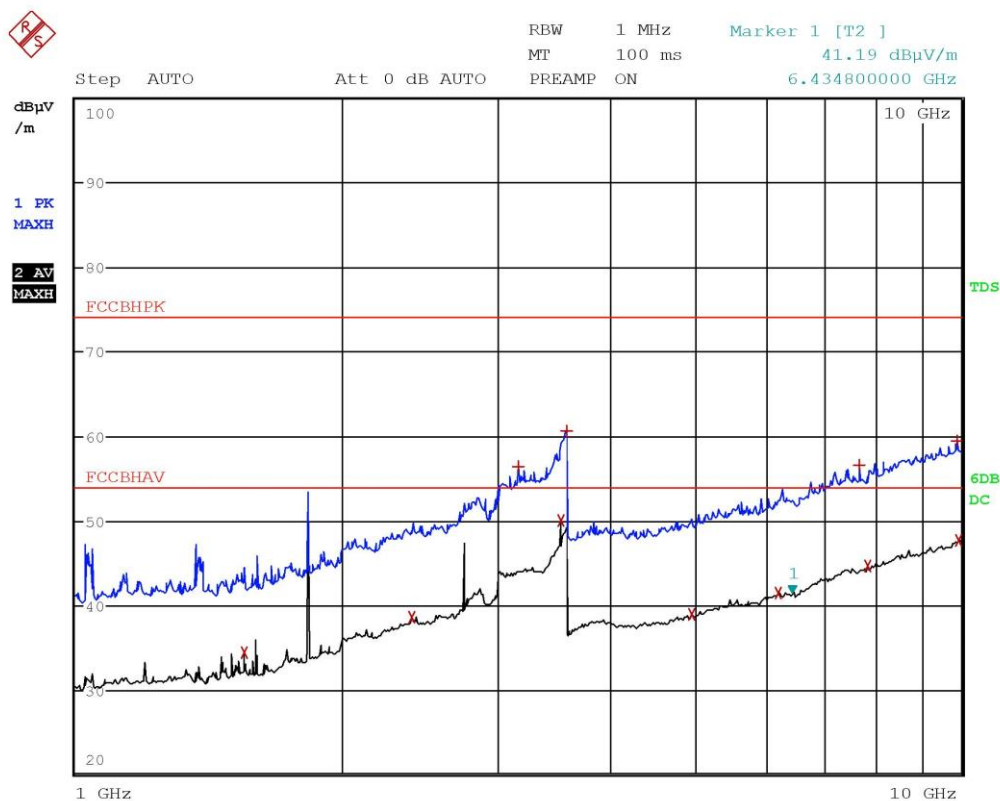


Bertezzolo 180947011



EDIT PEAK LIST (Prescan Results)				
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Trace2:	FCCBHAV			
Trace3:	---			
TRACE	FREQUENCY	LEVEL dBμV/m	DELTA LIMIT dB	
2 Average	1.4664 GHz	37.19	-16.78	
2 Average	2.428 GHz	38.38	-15.59	
2 Average	3.004 GHz	44.04	-9.93	
1 Max Peak	3.1604 GHz	55.30	-18.67	
2 Average	3.5316 GHz	49.46	-4.51	
1 Max Peak	3.5904 GHz	60.96	-13.01	
2 Average	4.9208 GHz	39.16	-14.81	
2 Average	6.194 GHz	41.52	-12.45	
1 Max Peak	7.882 GHz	55.97	-18.00	
2 Average	7.9324 GHz	44.65	-9.32	
1 Max Peak	9.9048 GHz	59.14	-14.83	
2 Average	9.9228 GHz	47.59	-6.38	

Bertezzolo 180947011

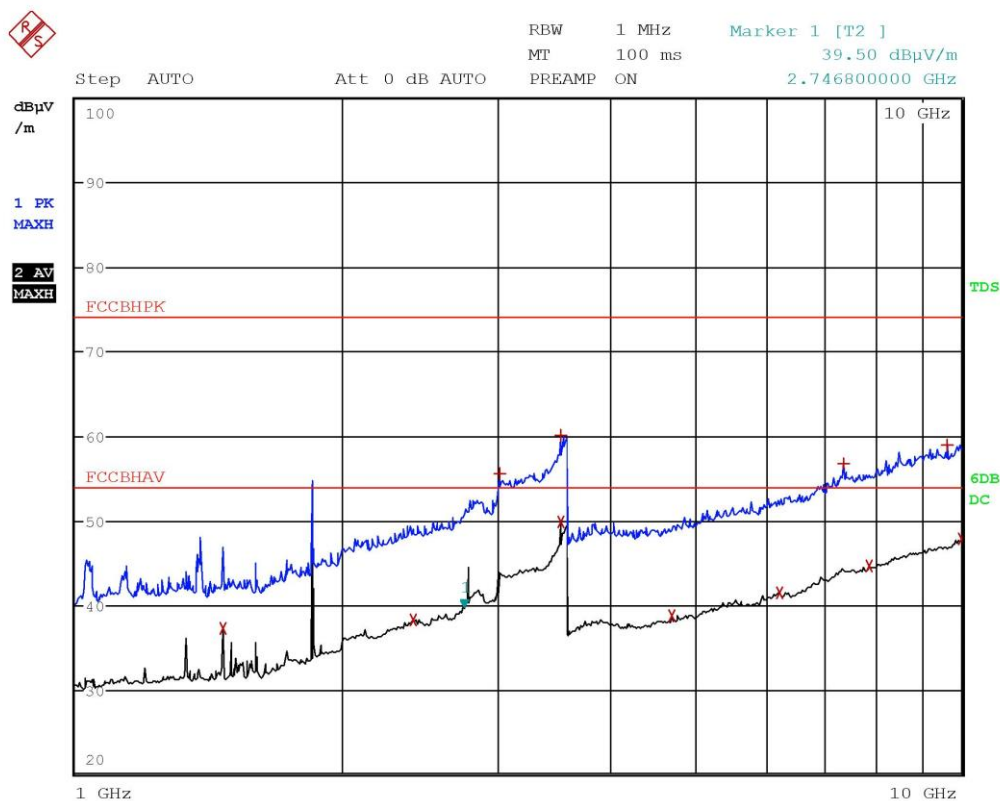


Bertezzolo 180947012



EDIT PEAK LIST (Prescan Results)			
Trace1:	FCCBHPK		
Trace2:	FCCBHAV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV/m	DELTA LIMIT dB
2 Average	1.55 GHz	34.45	-19.53
2 Average	2.4 GHz	38.56	-15.41
1 Max Peak	3.1612 GHz	56.39	-17.58
2 Average	3.5316 GHz	50.08	-3.89
1 Max Peak	3.5984 GHz	60.59	-13.38
2 Average	4.9652 GHz	38.84	-15.13
2 Average	6.206 GHz	41.44	-12.53
1 Max Peak	7.6696 GHz	56.51	-17.46
2 Average	7.834 GHz	44.65	-9.32
1 Max Peak	9.8968 GHz	59.35	-14.63
2 Average	9.9368 GHz	47.57	-6.40

Bertezzolo 180947012

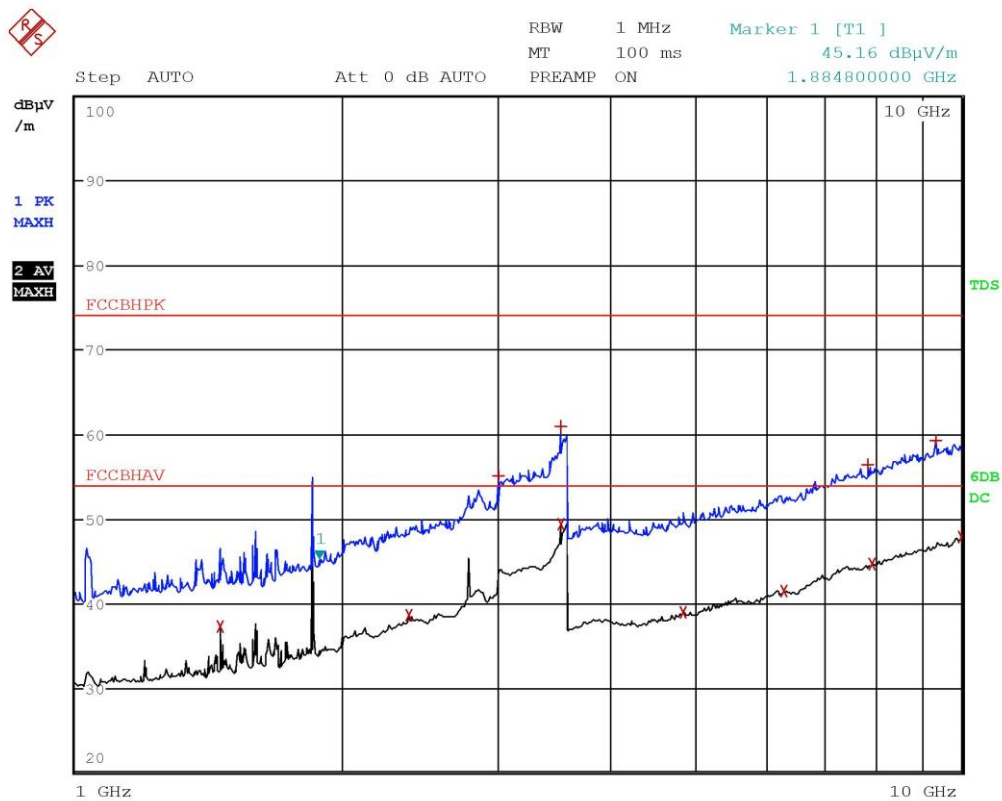


Bertezzo 180947013



EDIT PEAK LIST (Prescan Results)			
Trace1:	FCCBHPK		
Trace2:	FCCBHAV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV/m	DELTA LIMIT dB
2 Average	1.4664 GHz	37.21	-16.76
2 Average	2.408 GHz	38.22	-15.76
1 Max Peak	3.014 GHz	55.49	-18.48
1 Max Peak	3.5316 GHz	60.05	-13.92
2 Average	3.5316 GHz	49.83	-4.14
2 Average	4.702 GHz	38.74	-15.23
2 Average	6.24 GHz	41.49	-12.48
1 Max Peak	7.3644 GHz	56.64	-17.33
2 Average	7.8708 GHz	44.55	-9.42
1 Max Peak	9.62 GHz	58.90	-15.07
2 Average	9.9928 GHz	47.81	-6.16

Bertezzolo 180947013

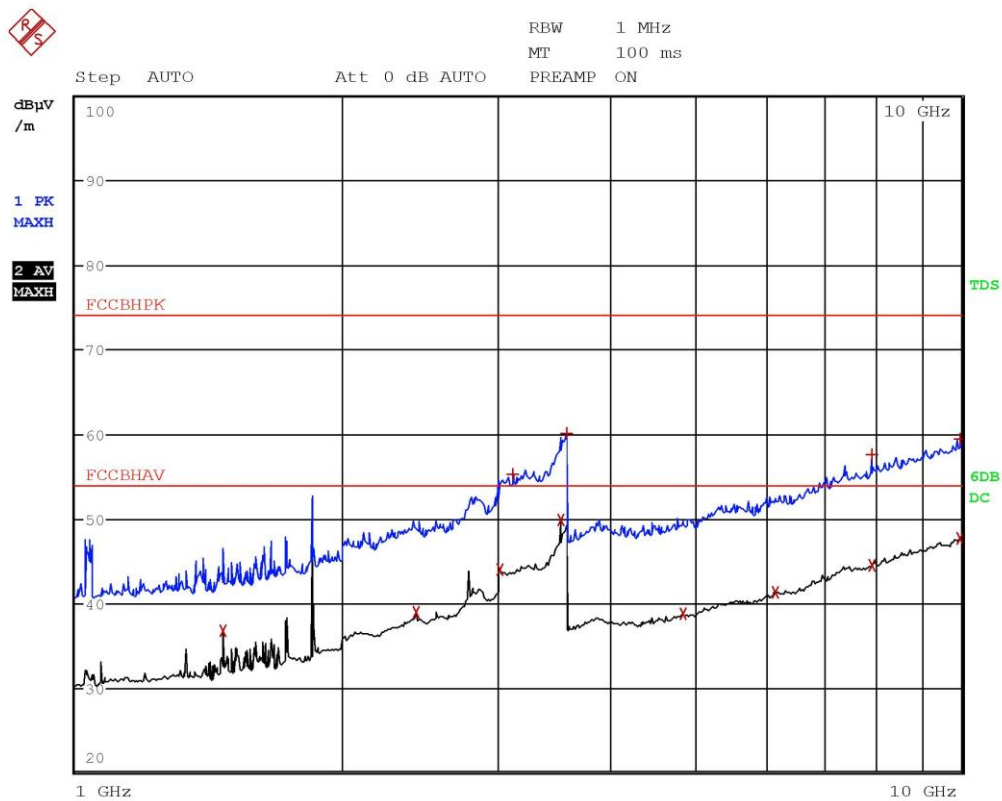


Bertezzo 180947014



EDIT PEAK LIST (Prescan Results)				
Trace1:	FCCBHPK			
Trace2:	FCCBHAV			
Trace3:	---			
TRACE	FREQUENCY	LEVEL dBμV/m	DELTA LIMIT dB	
2 Average	1.4584 GHz	37.18	-16.79	
2 Average	2.382 GHz	38.51	-15.46	
1 Max Peak	3.0068 GHz	55.06	-18.91	
1 Max Peak	3.5316 GHz	60.99	-12.98	
2 Average	3.5316 GHz	49.34	-4.63	
2 Average	4.8496 GHz	38.94	-15.03	
2 Average	6.308 GHz	41.43	-12.54	
1 Max Peak	7.844 GHz	56.31	-17.66	
2 Average	7.9216 GHz	44.65	-9.33	
1 Max Peak	9.3664 GHz	59.20	-14.77	
2 Average	9.992 GHz	47.76	-6.21	

Bertezzolo 180947014

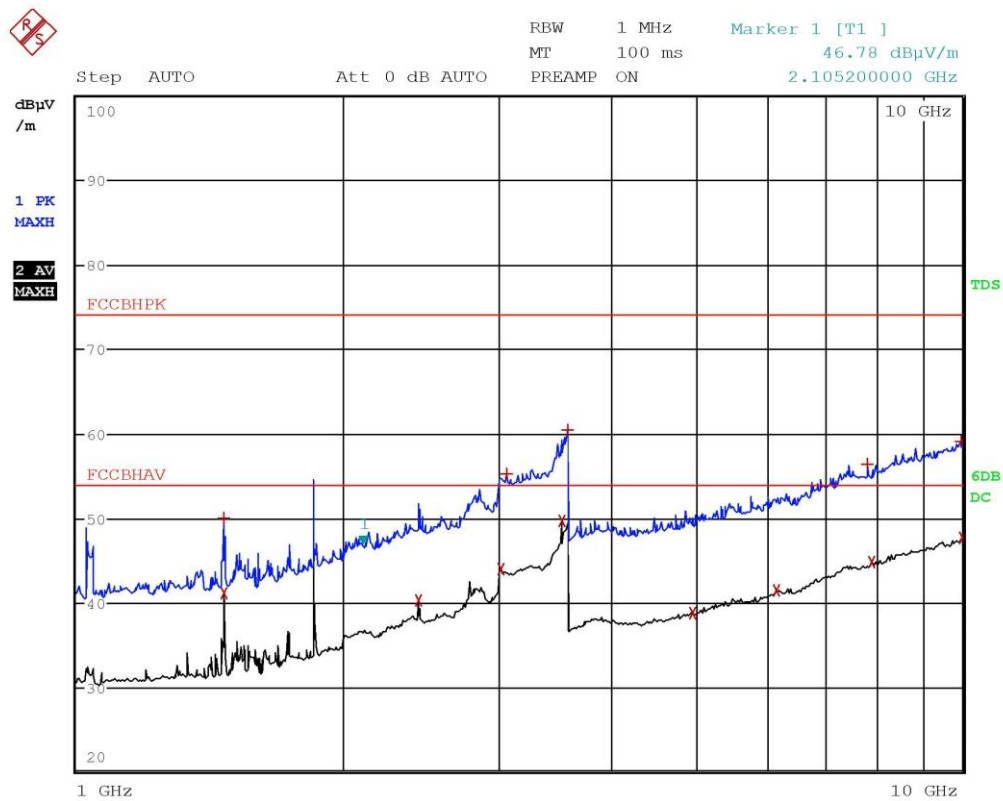


Bertezzo 180947015



EDIT PEAK LIST (Prescan Results)			
Trace1:	FCCBHPK		
Trace2:	FCCBHAV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV/m	DELTA LIMIT dB
2 Average	1.466 GHz	36.76	-17.21
2 Average	2.4256 GHz	38.92	-15.05
2 Average	3.0084 GHz	43.94	-10.03
1 Max Peak	3.1132 GHz	55.28	-18.69
2 Average	3.5316 GHz	49.81	-4.16
1 Max Peak	3.5956 GHz	60.13	-13.84
2 Average	4.86 GHz	38.70	-15.27
2 Average	6.1712 GHz	41.28	-12.69
2 Average	7.9268 GHz	44.37	-9.60
1 Max Peak	7.9328 GHz	57.51	-16.47
2 Average	9.9536 GHz	47.57	-6.40
1 Max Peak	9.9688 GHz	59.35	-14.62

Bertezzolo 180947015

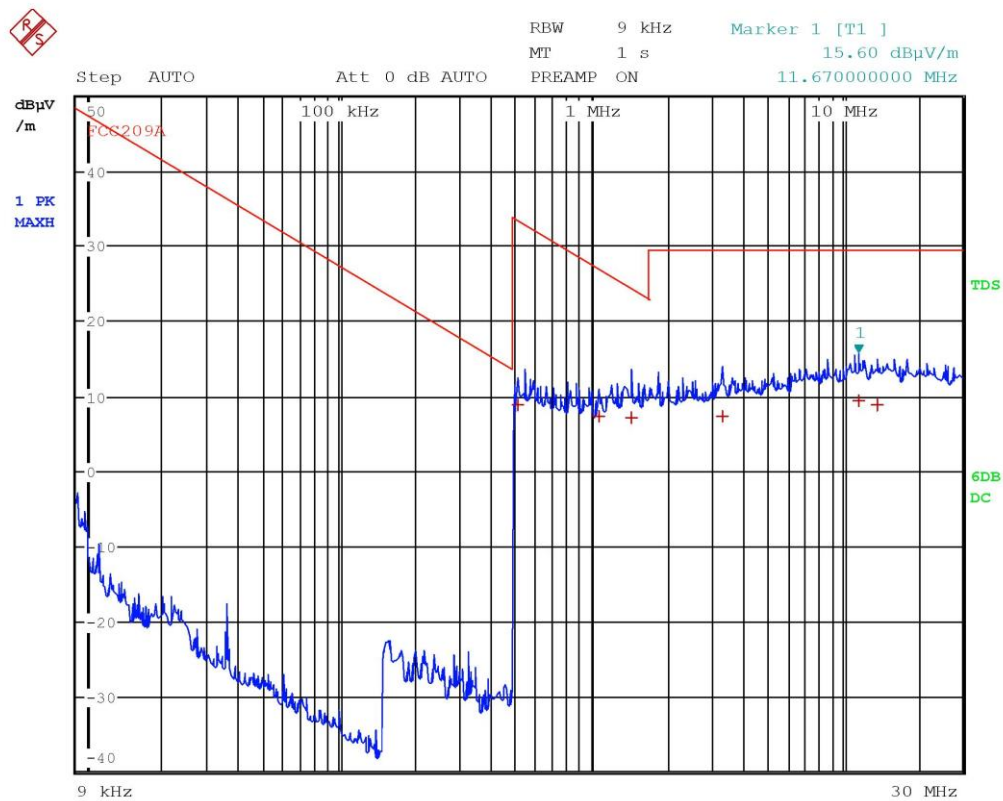


Bertezzo 180947016



EDIT PEAK LIST (Prescan Results)			
Trace1:	FCCBHPK		
Trace2:	FCCBHAV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV/m	DELTA LIMIT dB
2 Average	1.4664 GHz	41.08	-12.89
1 Max Peak	1.4676 GHz	50.06	-23.91
2 Average	2.4292 GHz	40.30	-13.67
2 Average	3.0192 GHz	43.88	-10.10
1 Max Peak	3.0576 GHz	55.16	-18.81
2 Average	3.5316 GHz	49.59	-4.38
1 Max Peak	3.5976 GHz	60.47	-13.50
2 Average	4.9596 GHz	38.79	-15.18
2 Average	6.1756 GHz	41.51	-12.46
1 Max Peak	7.7948 GHz	56.36	-17.61
2 Average	7.8892 GHz	44.74	-9.23
1 Max Peak	9.9648 GHz	58.99	-14.98
2 Average	9.996 GHz	47.56	-6.41

Bertezzolo 180947016

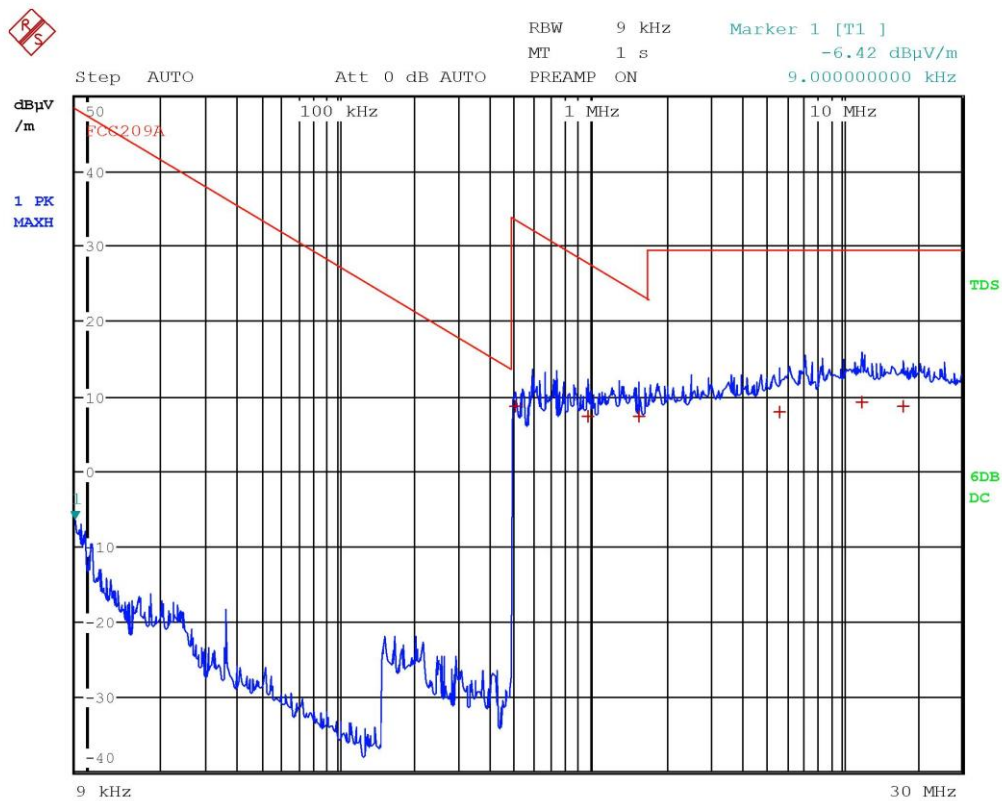


Bertezzolo 180947017



EDIT PEAK LIST (Final Measurement Results)			
Trace1:	FCC209A		
Trace2:	---		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV/m	DELTA LIMIT dB
1 Quasi Peak	510 kHz	8.92	-24.53
1 Quasi Peak	1.066 MHz	7.28	-19.76
1 Quasi Peak	1.45 MHz	7.10	-17.27
1 Quasi Peak	3.314 MHz	7.32	-22.21
1 Quasi Peak	11.67 MHz	9.37	-20.16
1 Quasi Peak	13.75 MHz	8.96	-20.57

Bertezzolo 180947017

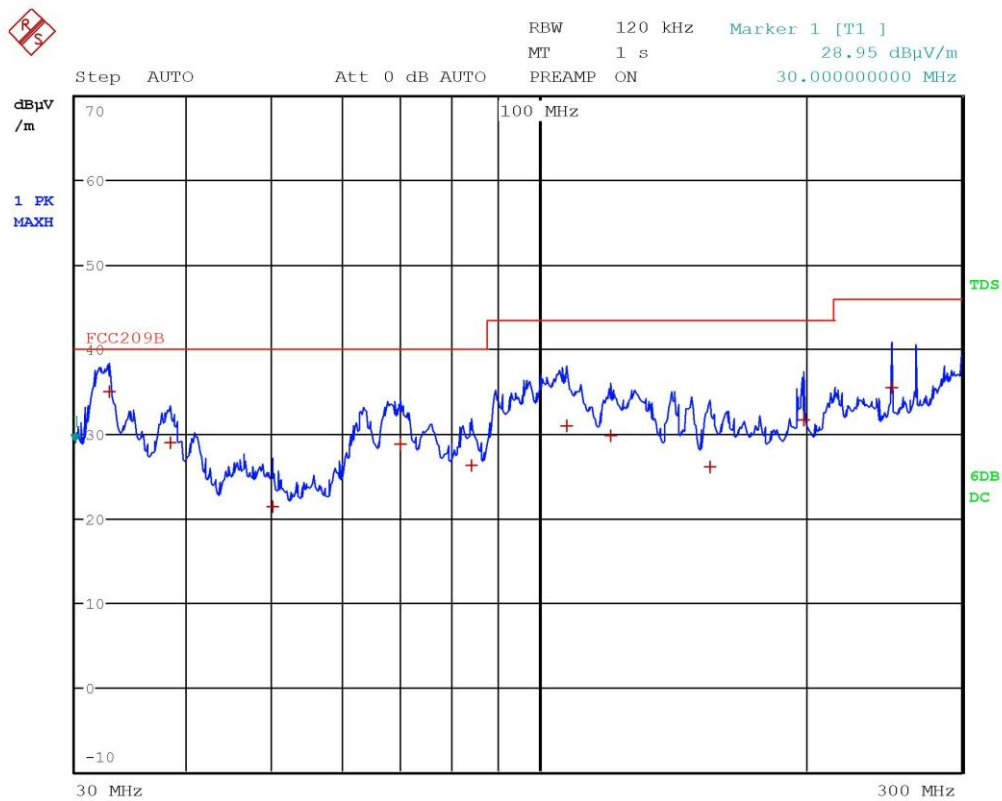


Bertezzolo 180947018



EDIT PEAK LIST (Final Measurement Results)			
Trace1:	FCC209A		
Trace2:	---		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV/m	DELTA LIMIT dB
1 Quasi Peak	502 kHz	8.72	-24.86
1 Quasi Peak	982 kHz	7.29	-20.46
1 Quasi Peak	1.558 MHz	7.33	-16.41
1 Quasi Peak	5.65 MHz	8.00	-21.53
1 Quasi Peak	12.15 MHz	9.16	-20.37
1 Quasi Peak	17.602 MHz	8.72	-20.81

Bertezzolo 180947018

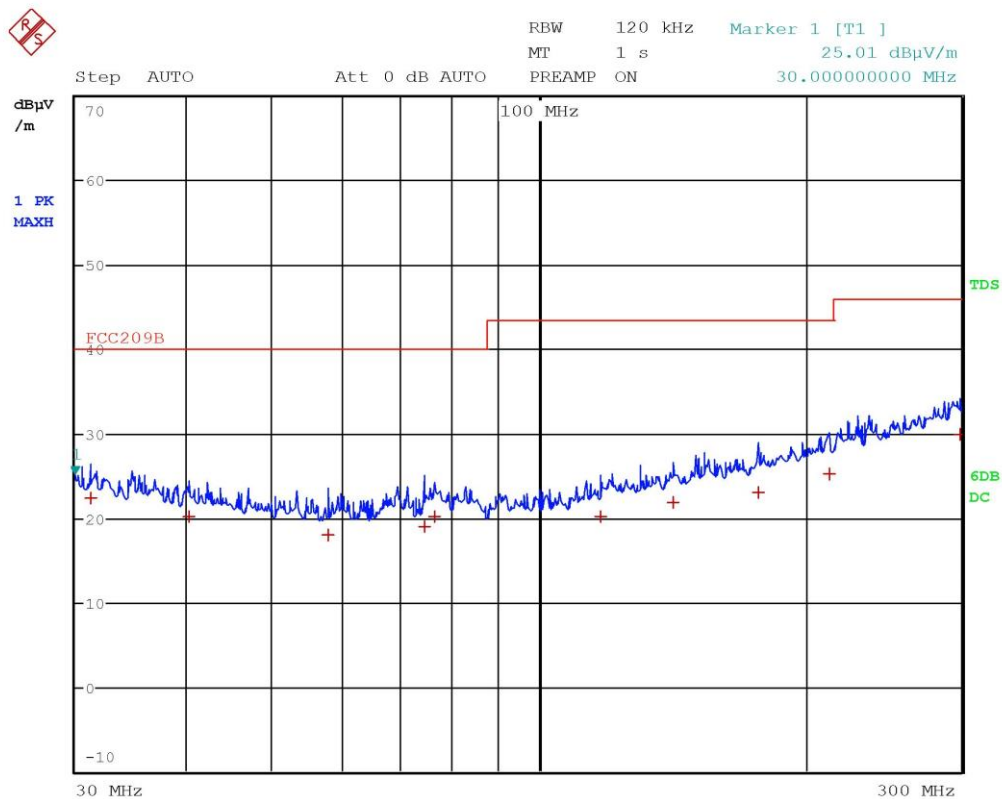


Bertezzolo 180947019



EDIT PEAK LIST (Final Measurement Results)			
Trace1:	FCC209B		
Trace2:	---		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV/m	DELTA LIMIT dB
1 Quasi Peak	32.68 MHz	35.00	-4.99
1 Quasi Peak	38.44 MHz	28.94	-11.05
1 Quasi Peak	50 MHz	21.39	-18.60
1 Quasi Peak	69.88 MHz	28.78	-11.21
1 Quasi Peak	84.04 MHz	26.19	-13.81
1 Quasi Peak	107.48 MHz	30.93	-12.58
1 Quasi Peak	120.4 MHz	29.74	-13.77
1 Quasi Peak	156.2 MHz	26.10	-17.42
1 Quasi Peak	199.16 MHz	31.62	-11.89
1 Quasi Peak	250 MHz	35.38	-10.63

Bertezzolo 180947019

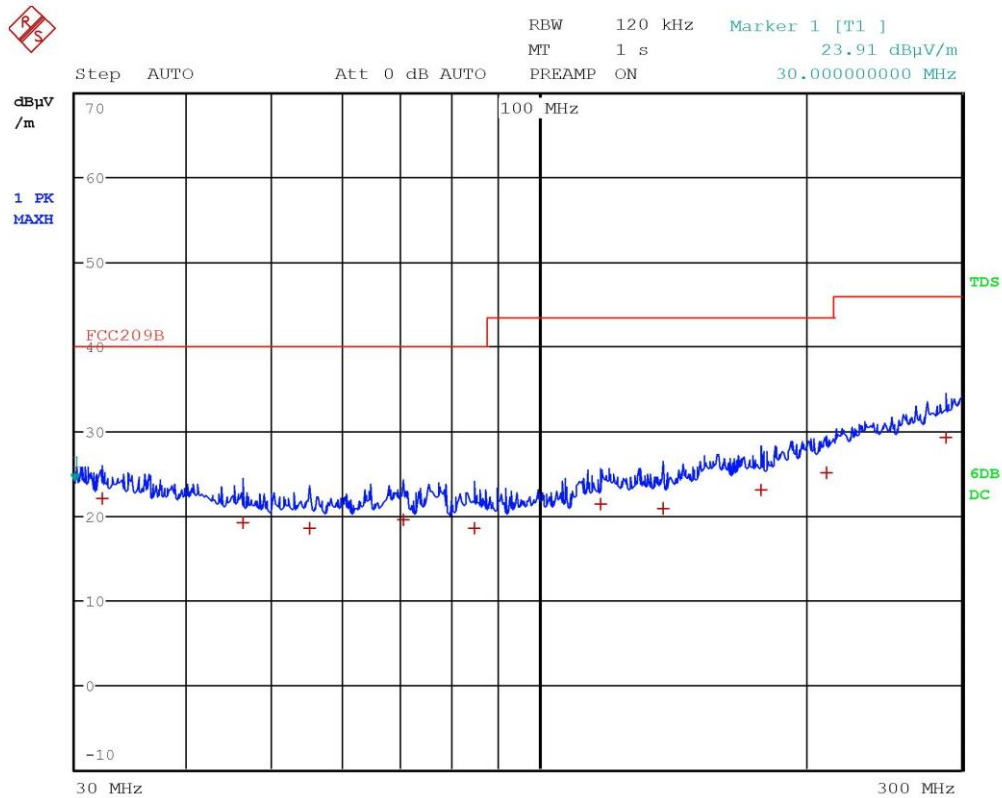


Bertezzolo 180947020



EDIT PEAK LIST (Final Measurement Results)			
Trace1:	FCC209B		
Trace2:	---		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV/m	DELTA LIMIT dB
1 Quasi Peak	31.2 MHz	22.42	-17.57
1 Quasi Peak	40.24 MHz	20.22	-19.77
1 Quasi Peak	57.72 MHz	18.02	-21.97
1 Quasi Peak	74.32 MHz	19.03	-20.96
1 Quasi Peak	76.24 MHz	20.22	-19.77
1 Quasi Peak	117.68 MHz	20.21	-23.31
1 Quasi Peak	141.68 MHz	21.83	-21.68
1 Quasi Peak	176.64 MHz	23.09	-20.42
1 Quasi Peak	212.8 MHz	25.21	-18.30
1 Quasi Peak	299.4 MHz	29.92	-16.09

Bertezzolo 180947020

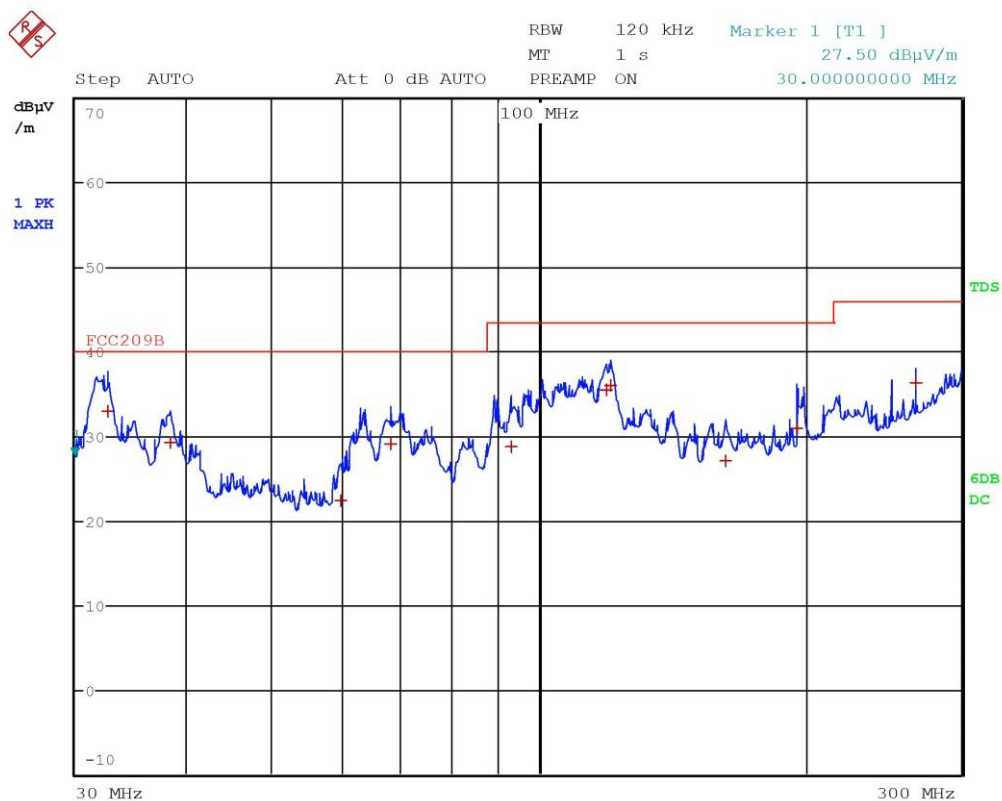


Bertezzo 180947021



EDIT PEAK LIST (Final Measurement Results)			
Trace1:	FCC209B		
Trace2:	---		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV/m	DELTA LIMIT dB
1 Quasi Peak	32.08 MHz	21.93	-18.06
1 Quasi Peak	46.32 MHz	19.18	-20.81
1 Quasi Peak	55.08 MHz	18.47	-21.53
1 Quasi Peak	70.2 MHz	19.54	-20.45
1 Quasi Peak	84.48 MHz	18.55	-21.45
1 Quasi Peak	117.36 MHz	21.33	-22.19
1 Quasi Peak	138.16 MHz	20.83	-22.68
1 Quasi Peak	178.32 MHz	23.06	-20.45
1 Quasi Peak	211.52 MHz	25.08	-18.43
1 Quasi Peak	288.32 MHz	29.18	-16.84

Bertezzolo 180947021

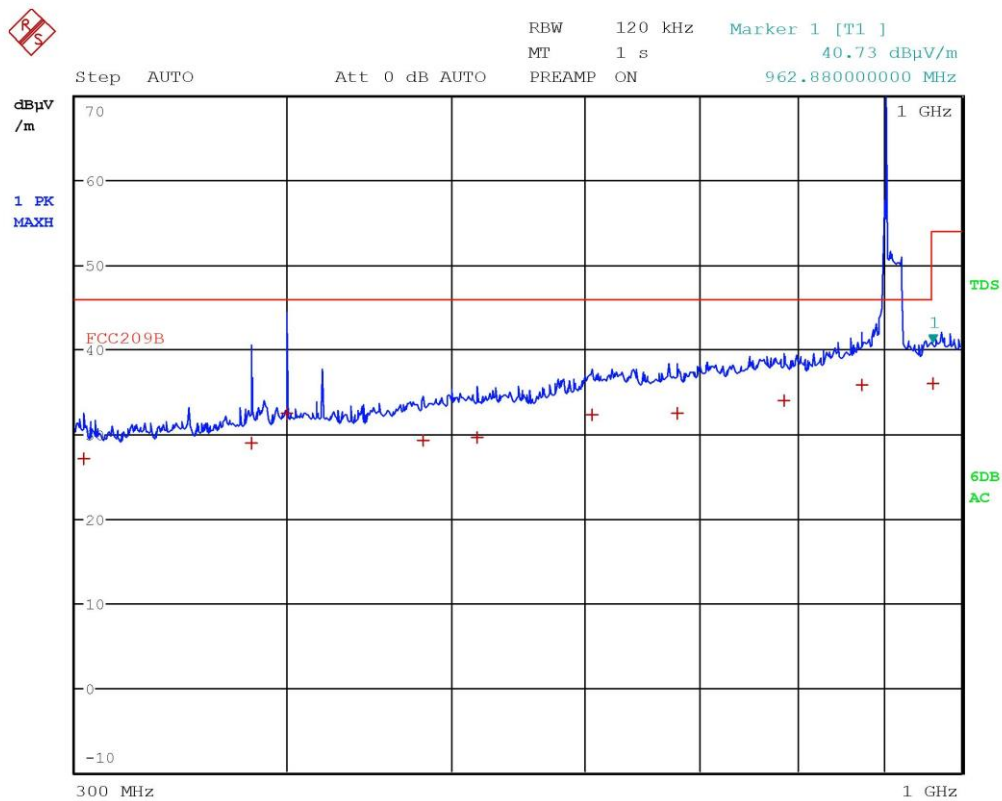


Bertezzolo 180947022



EDIT PEAK LIST (Final Measurement Results)			
Trace1:	FCC209B		
Trace2:	---		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV/m	DELTA LIMIT dB
1 Quasi Peak	32.6 MHz	32.95	-7.04
1 Quasi Peak	38.36 MHz	29.32	-10.67
1 Quasi Peak	59.72 MHz	22.32	-17.67
1 Quasi Peak	67.92 MHz	29.09	-10.90
1 Quasi Peak	93.04 MHz	28.68	-14.83
1 Quasi Peak	119.24 MHz	35.41	-8.10
1 Quasi Peak	120.36 MHz	35.92	-7.59
1 Quasi Peak	162.48 MHz	27.10	-16.41
1 Quasi Peak	195.76 MHz	30.90	-12.61
1 Quasi Peak	266.64 MHz	36.37	-9.64

Bertezzolo 180947022

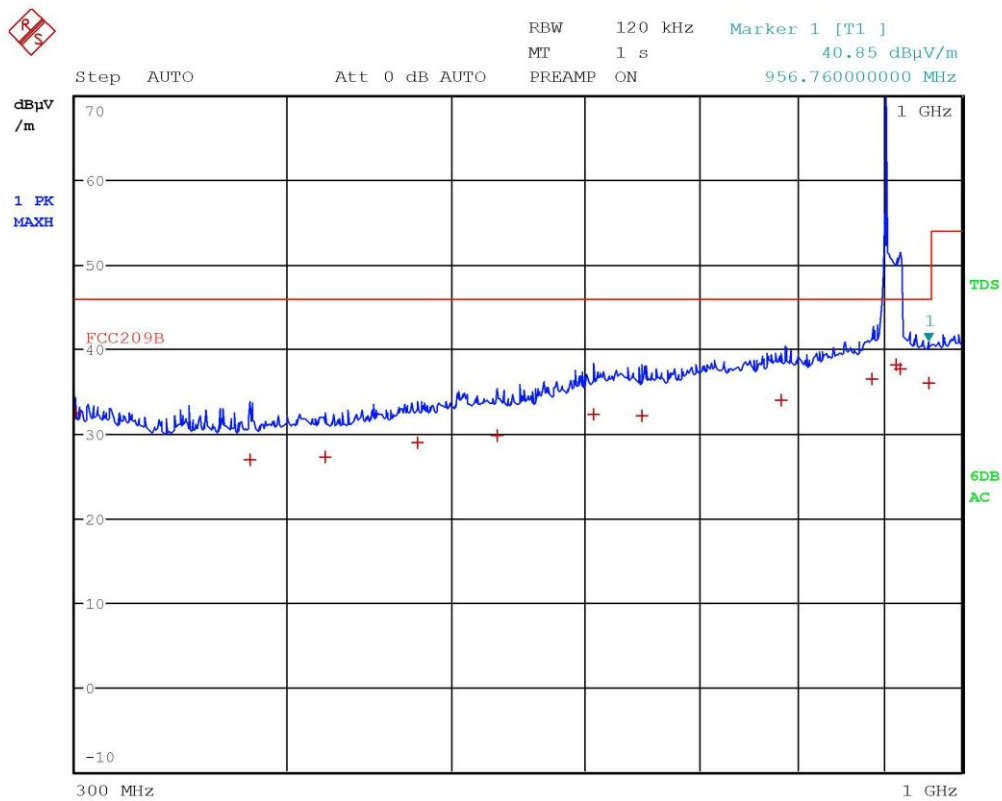


Bertezzolo 180947023



EDIT PEAK LIST (Final Measurement Results)			
Trace1:	FCC209B		
Trace2:	---		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV/m	DELTA LIMIT dB
1 Quasi Peak	303.4 MHz	27.07	-18.94
1 Quasi Peak	380.8 MHz	28.94	-17.07
1 Quasi Peak	400 MHz	32.36	-13.65
1 Quasi Peak	481.08 MHz	29.23	-16.78
1 Quasi Peak	517.64 MHz	29.56	-16.46
1 Quasi Peak	605.04 MHz	32.25	-13.76
1 Quasi Peak	679.68 MHz	32.36	-13.65
1 Quasi Peak	785.88 MHz	33.87	-12.14
1 Quasi Peak	872.84 MHz	35.75	-10.26
1 Quasi Peak	962.88 MHz	35.91	-18.06

Bertezzolo 180947023



Bertezzolo 180947024



EDIT PEAK LIST (Final Measurement Results)			
Trace1:	FCC209B		
Trace2:	---		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV/m	DELTA LIMIT dB
1 Quasi Peak	300 MHz	32.49	-13.52
1 Quasi Peak	380.48 MHz	26.87	-19.15
1 Quasi Peak	421.6 MHz	27.15	-18.86
1 Quasi Peak	477.64 MHz	28.86	-17.15
1 Quasi Peak	532.08 MHz	29.66	-16.35
1 Quasi Peak	606.48 MHz	32.27	-13.74
1 Quasi Peak	647.72 MHz	32.06	-13.95
1 Quasi Peak	781.88 MHz	33.94	-12.07
1 Quasi Peak	886.08 MHz	36.50	-9.51
1 Quasi Peak	915.44 MHz	38.13	-7.88
1 Quasi Peak	919.84 MHz	37.60	-8.41
1 Quasi Peak	956.76 MHz	35.90	-10.11

Bertezzolo 180947024