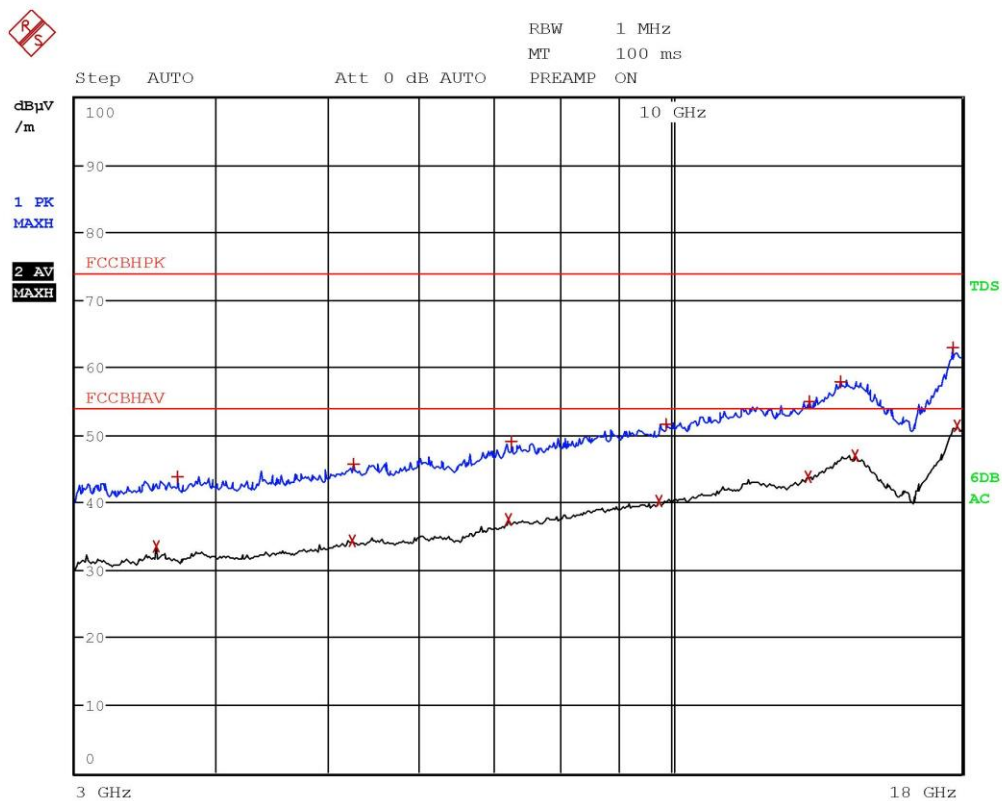


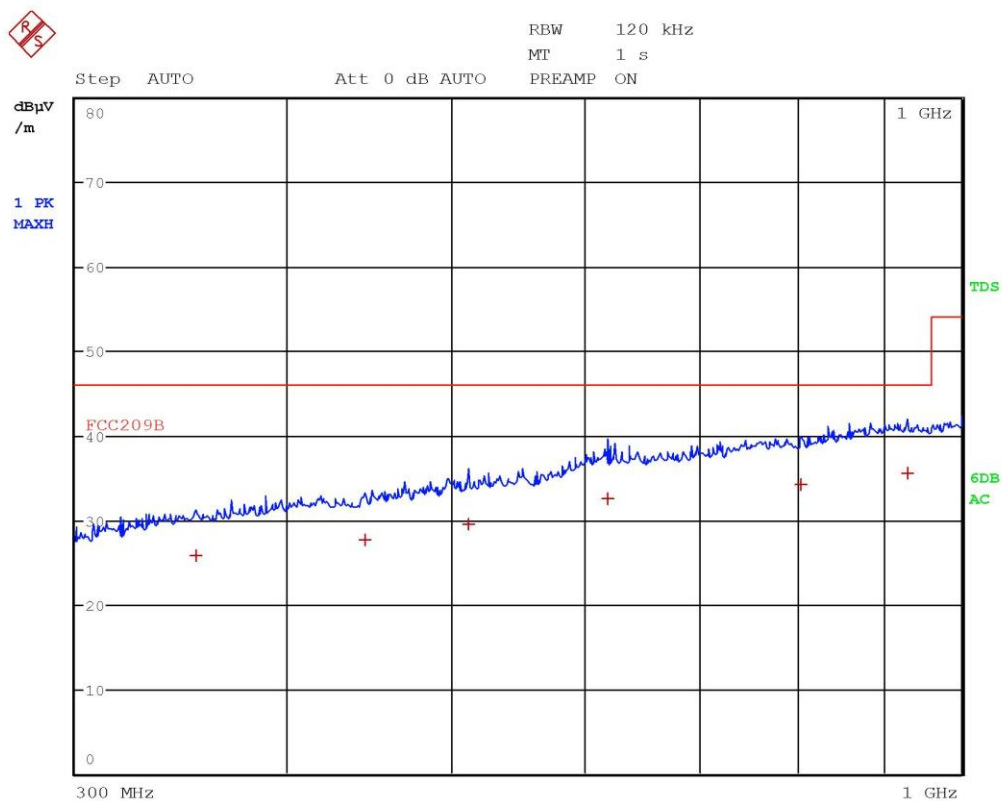


Segalla 20160315



EDIT PEAK LIST (Prescan Results)			
Trace1:	FCCBHPK		
Trace2:	FCCBHAV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV/m	DELTA LIMIT dB
2 Average	3.5356 GHz	33.60	-20.37
1 Max Peak	3.6924 GHz	43.85	-30.12
2 Average	5.2504 GHz	34.32	-19.65
1 Max Peak	5.2636 GHz	45.70	-28.27
2 Average	7.1924 GHz	37.39	-16.58
1 Max Peak	7.25 GHz	49.01	-24.97
2 Average	9.7532 GHz	40.15	-13.82
1 Max Peak	9.8972 GHz	51.57	-22.40
2 Average	13.198 GHz	43.82	-10.15
1 Max Peak	13.2364 GHz	54.92	-19.05
1 Max Peak	14.1108 GHz	57.96	-16.01
2 Average	14.5276 GHz	47.02	-6.95
1 Max Peak	17.704 GHz	62.82	-11.16
2 Average	17.8696 GHz	51.39	-2.58

Segalla 20160315

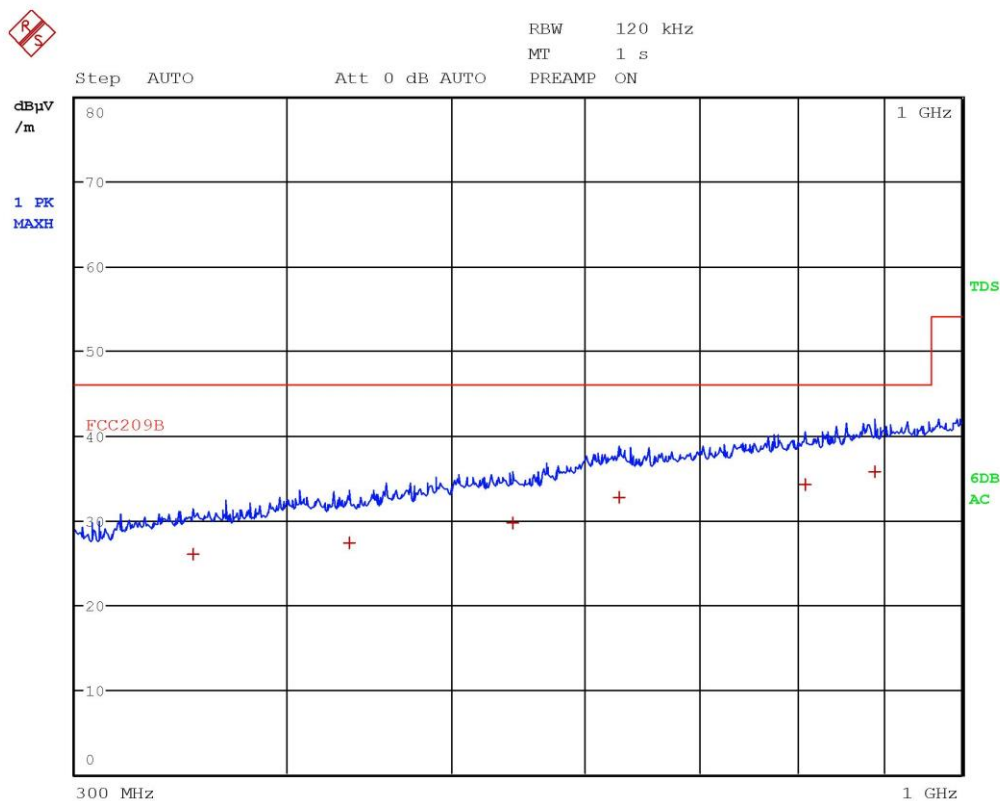


Segalla 20160320



EDIT PEAK LIST (Final Measurement Results)			
Trace1:	FCC209B		
Trace2:	---		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV/m	DELTA LIMIT dB
1 Quasi Peak	353.76 MHz	25.84	-20.17
1 Quasi Peak	445 MHz	27.58	-18.43
1 Quasi Peak	511.64 MHz	29.57	-16.45
1 Quasi Peak	618.04 MHz	32.48	-13.53
1 Quasi Peak	804.32 MHz	34.18	-11.84
1 Quasi Peak	929.24 MHz	35.60	-10.42

Segalla 20160320

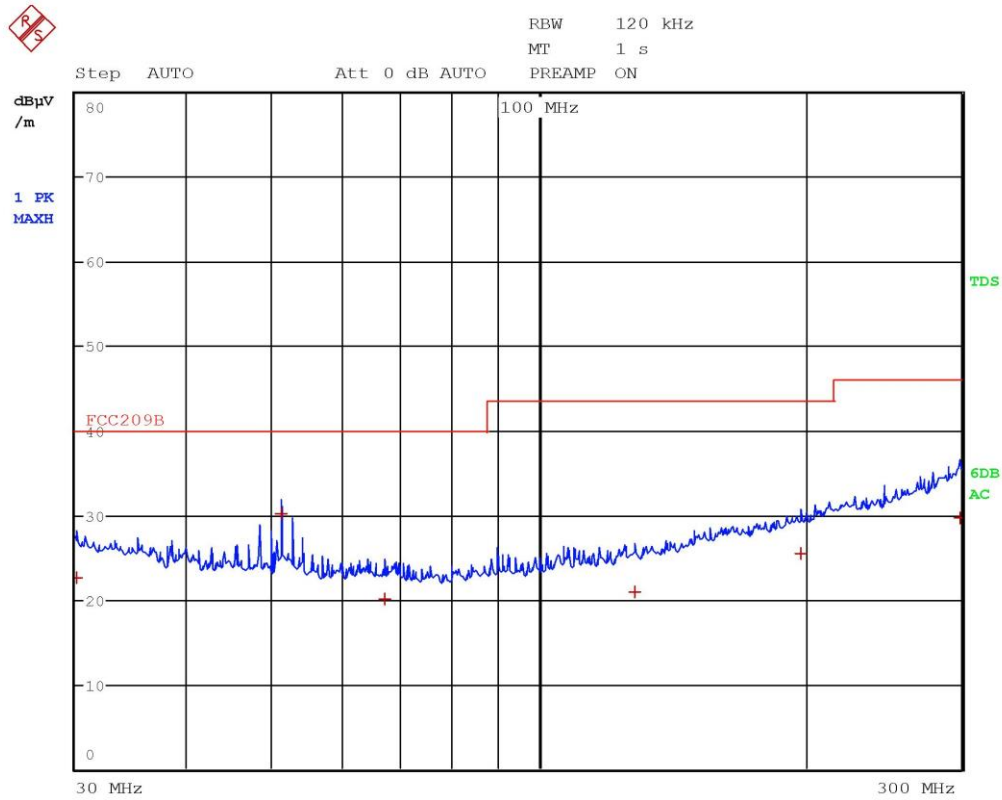


Segalla 20160321



EDIT PEAK LIST (Final Measurement Results)			
Trace1:	FCC209B		
Trace2:	---		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV/m	DELTA LIMIT dB
1 Quasi Peak	352 MHz	25.93	-20.08
1 Quasi Peak	435.28 MHz	27.31	-18.70
1 Quasi Peak	543.76 MHz	29.68	-16.33
1 Quasi Peak	627.6 MHz	32.61	-13.40
1 Quasi Peak	808.96 MHz	34.17	-11.84
1 Quasi Peak	888.92 MHz	35.67	-10.34

Segalla 20160321

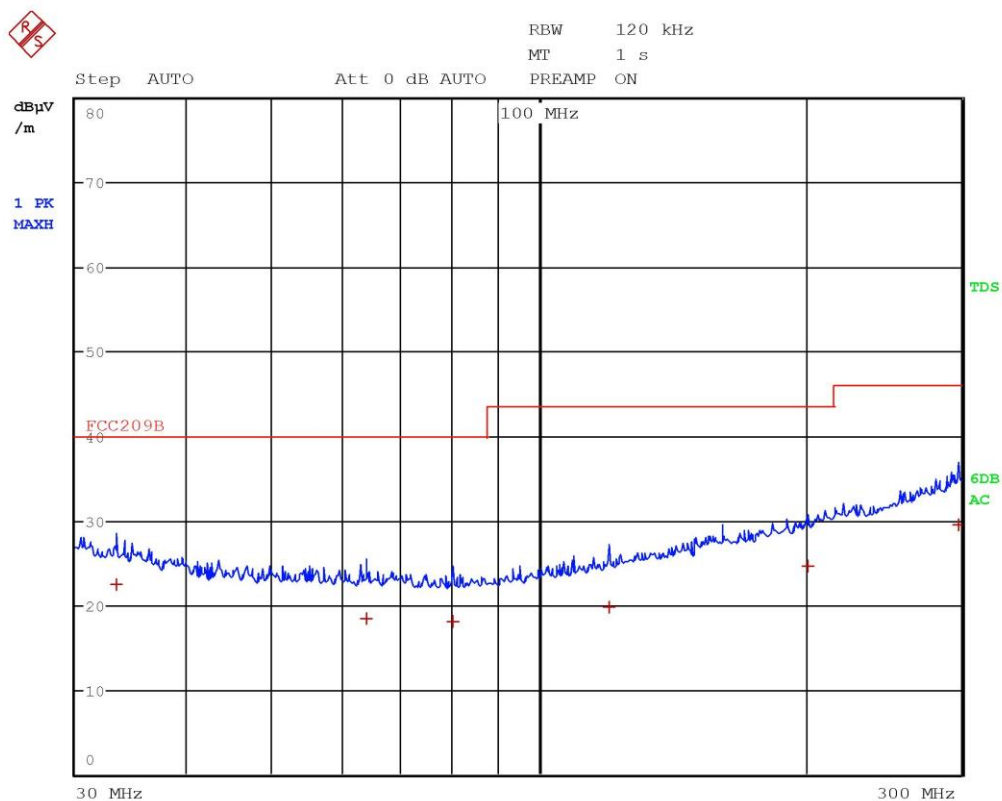


Segalla 20160322



EDIT PEAK LIST (Final Measurement Results)			
Trace1:	FCC209B		
Trace2:	---		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV/m	DELTA LIMIT dB
1 Quasi Peak	30.12 MHz	22.57	-17.43
1 Quasi Peak	51.28 MHz	30.19	-9.80
1 Quasi Peak	67 MHz	20.11	-19.88
1 Quasi Peak	128.24 MHz	20.99	-22.52
1 Quasi Peak	197.64 MHz	25.39	-18.12
1 Quasi Peak	299.2 MHz	29.74	-16.27

Segalla 20160322

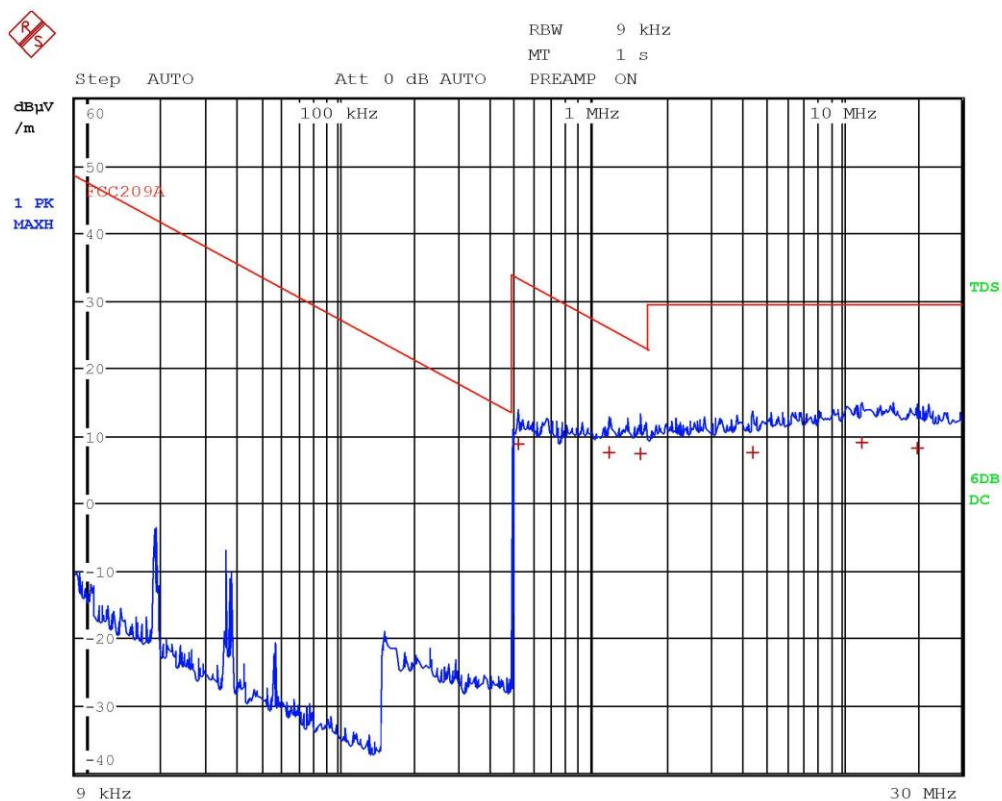


Segalla 20160323



EDIT PEAK LIST (Final Measurement Results)			
Trace1:	FCC209B		
Trace2:	---		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV/m	DELTA LIMIT dB
1 Quasi Peak	33.4 MHz	22.47	-17.52
1 Quasi Peak	63.96 MHz	18.37	-21.62
1 Quasi Peak	80 MHz	18.02	-21.97
1 Quasi Peak	119.88 MHz	19.72	-23.79
1 Quasi Peak	201.04 MHz	24.62	-18.89
1 Quasi Peak	297.76 MHz	29.53	-16.48

Segalla 20160323

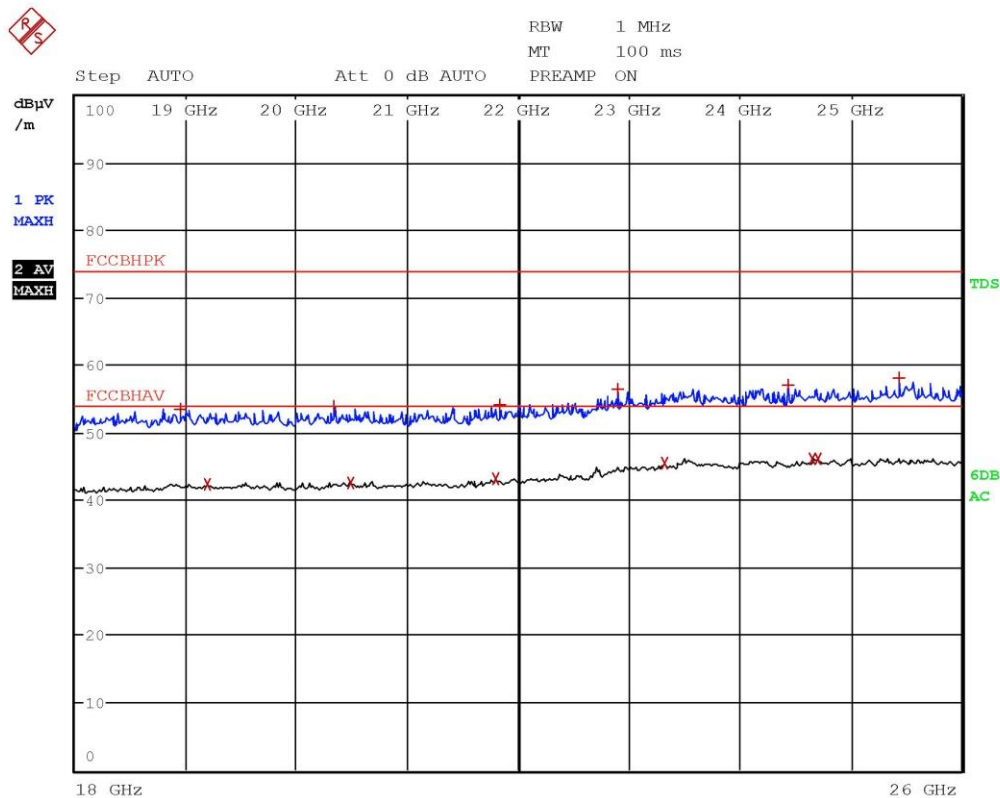


Segalla 20160324



EDIT PEAK LIST (Final Measurement Results)			
Trace1:	FCC209A		
Trace2:	---		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV/m	DELTA LIMIT dB
1 Quasi Peak	514 kHz	8.89	-24.49
1 Quasi Peak	1.186 MHz	7.54	-18.57
1 Quasi Peak	1.586 MHz	7.32	-16.27
1 Quasi Peak	4.426 MHz	7.54	-21.99
1 Quasi Peak	12.062 MHz	8.97	-20.56
1 Quasi Peak	20.174 MHz	8.28	-21.25

Segalla 20160324

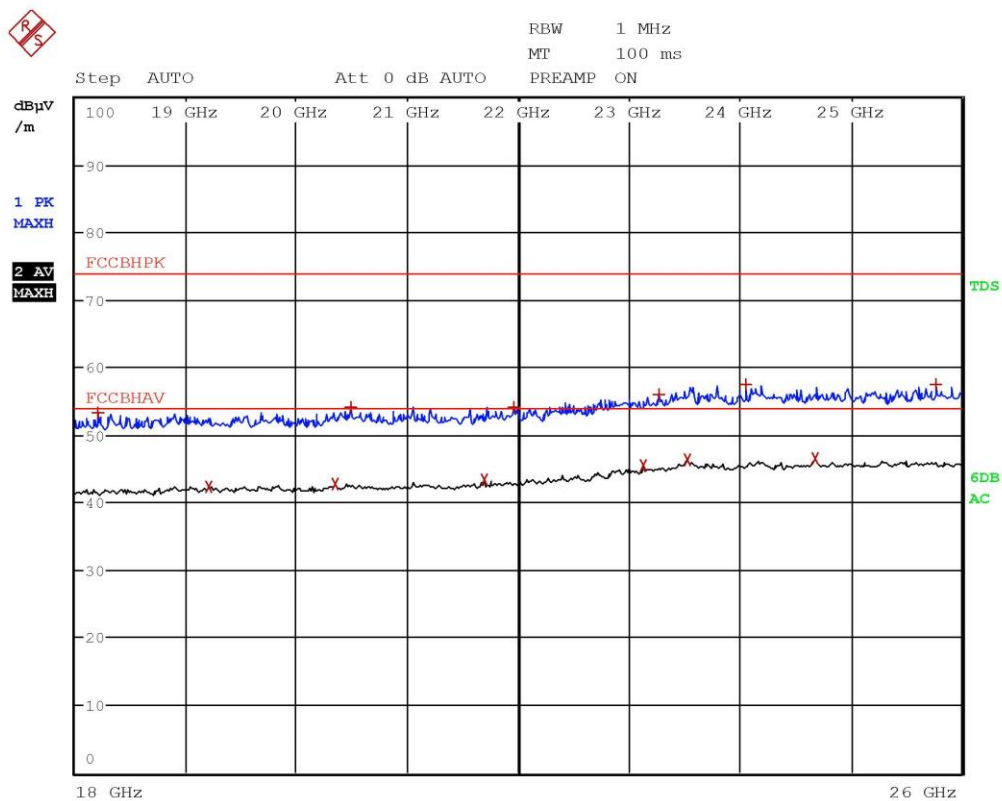


Segalla 20160325



EDIT PEAK LIST (Prescan Results)			
Trace1:	FCCBHPK		
Trace2:	FCCBHAV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV/m	DELTA LIMIT dB
1 Max Peak	18.9484 GHz	53.48	-20.49
2 Average	19.1916 GHz	42.31	-11.66
1 Max Peak	20.332 GHz	53.87	-20.10
2 Average	20.492 GHz	42.62	-11.35
2 Average	21.7992 GHz	43.15	-10.82
1 Max Peak	21.836 GHz	54.06	-19.91
1 Max Peak	22.9012 GHz	56.42	-17.55
2 Average	23.3168 GHz	45.38	-8.59
1 Max Peak	24.4368 GHz	57.00	-16.97
2 Average	24.662 GHz	46.03	-7.94
2 Average	24.6988 GHz	46.12	-7.85
1 Max Peak	25.4416 GHz	57.99	-15.98

Segalla 20160325



Segalla 20160326



EDIT PEAK LIST (Prescan Results)			
Trace1:	FCCBHPK		
Trace2:	FCCBHAV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV/m	DELTA LIMIT dB
1 Max Peak	18.2028 GHz	53.20	-20.77
2 Average	19.1984 GHz	42.35	-11.62
2 Average	20.342 GHz	42.74	-11.23
1 Max Peak	20.4836 GHz	54.01	-19.96
2 Average	21.6864 GHz	43.30	-10.67
1 Max Peak	21.9556 GHz	54.12	-19.85
2 Average	23.1284 GHz	45.53	-8.44
1 Max Peak	23.2696 GHz	55.89	-18.08
2 Average	23.5268 GHz	46.23	-7.74
1 Max Peak	24.0468 GHz	57.48	-16.49
2 Average	24.6732 GHz	46.57	-7.40
1 Max Peak	25.7636 GHz	57.40	-16.58

Segalla 20160326



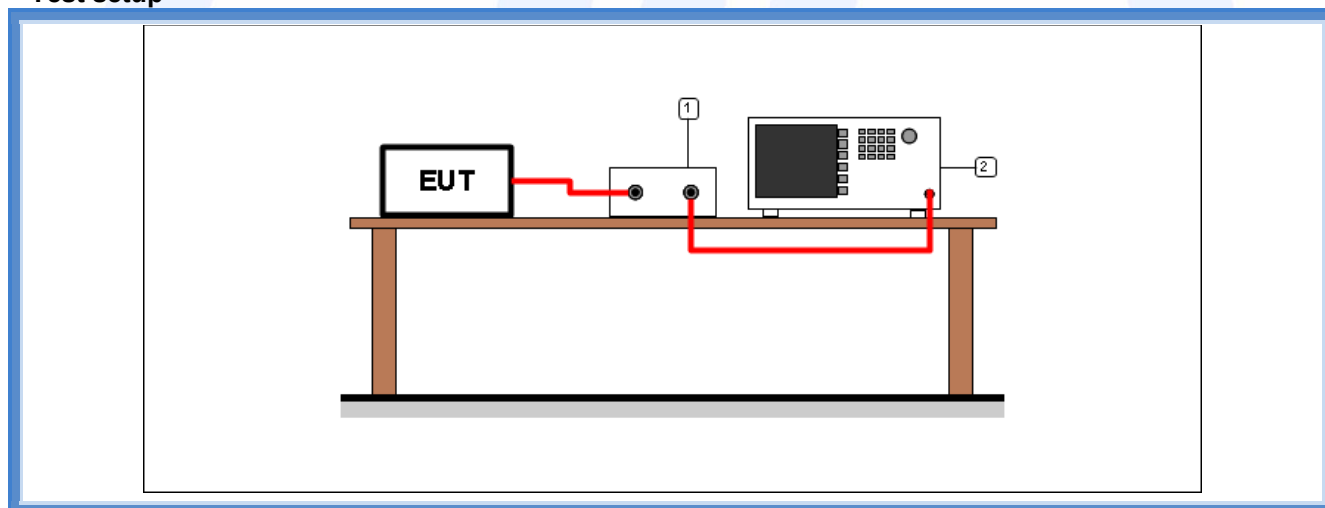
9.3 DTS bandwidth

Tested by	M. Segalla
Test date	29.09.2020
Test location (stand)	Laboratory
Reference standards	FCC Rules and Regulation; Titles 47 Part 15.247 (a) (2) ANSI C63.10 cl. 11.8 KDB 558074 D01 DTS Meas Guidance v05r02 cl. 8.2
Supplementary test set-up description	--
Supplementary information.....	--

Acceptance limits

Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz

Test setup



Test setup PR002_01				
Nr.	Id. Number	Manufacturer	Model	Description
2	CMC S295	Rohde & Schwarz	FSW43	Spectrum Analyzer 43GHz
1	--	--	--	Cable + attenuator (calibrated before the test)

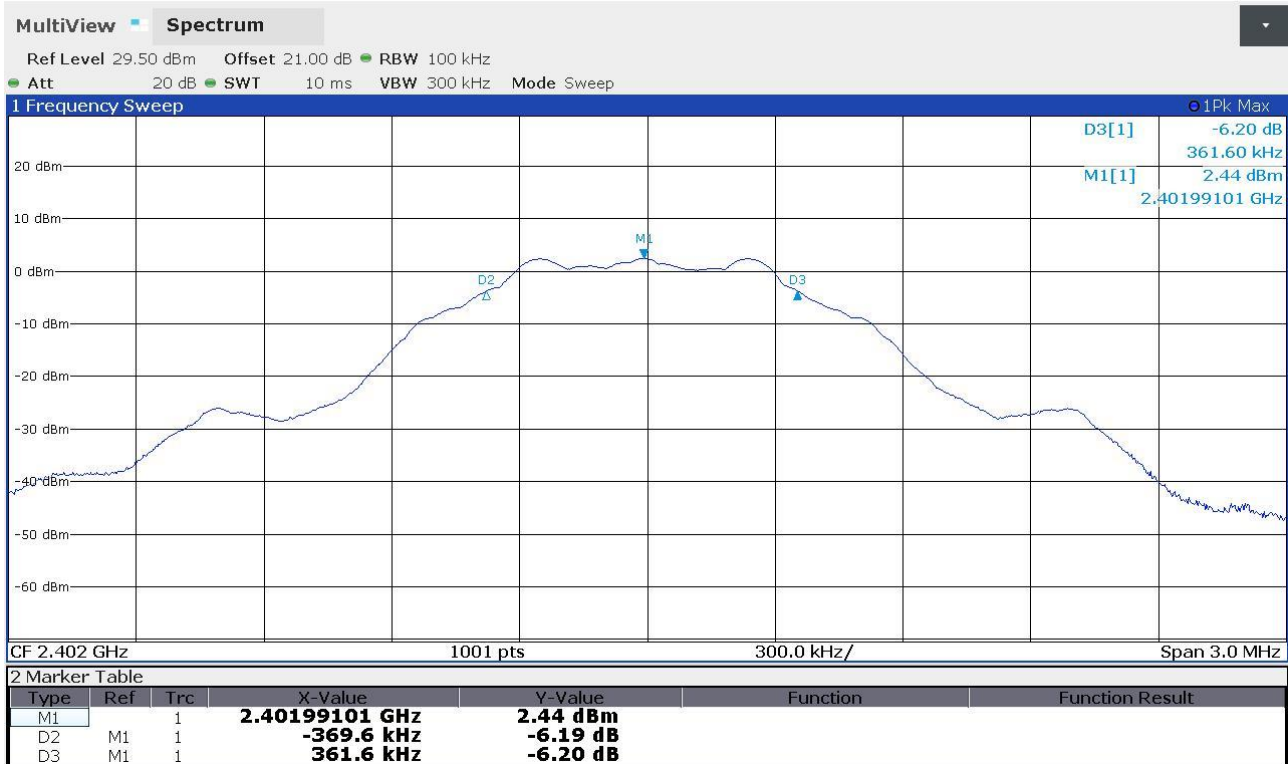
Result

Frequency (MHz)	Graphs	6 dB bandwidth (kHz)	Minimum 6 dB bandwidth allowed (kHz)	Results
2402	G20160327	731,20	500	Complies
2440	G20160332	734,20	500	Complies
2480	G20160337	740,20	500	Complies

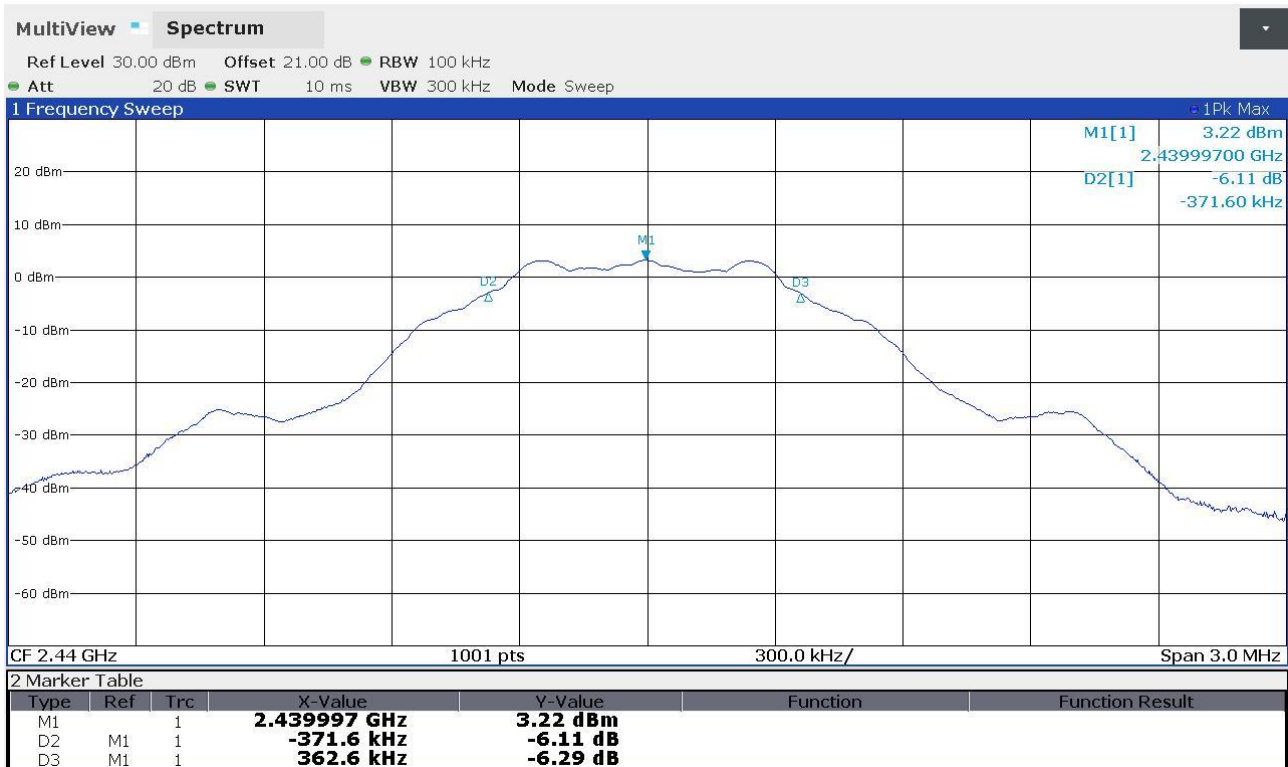


Graphs

Segalla 20160327

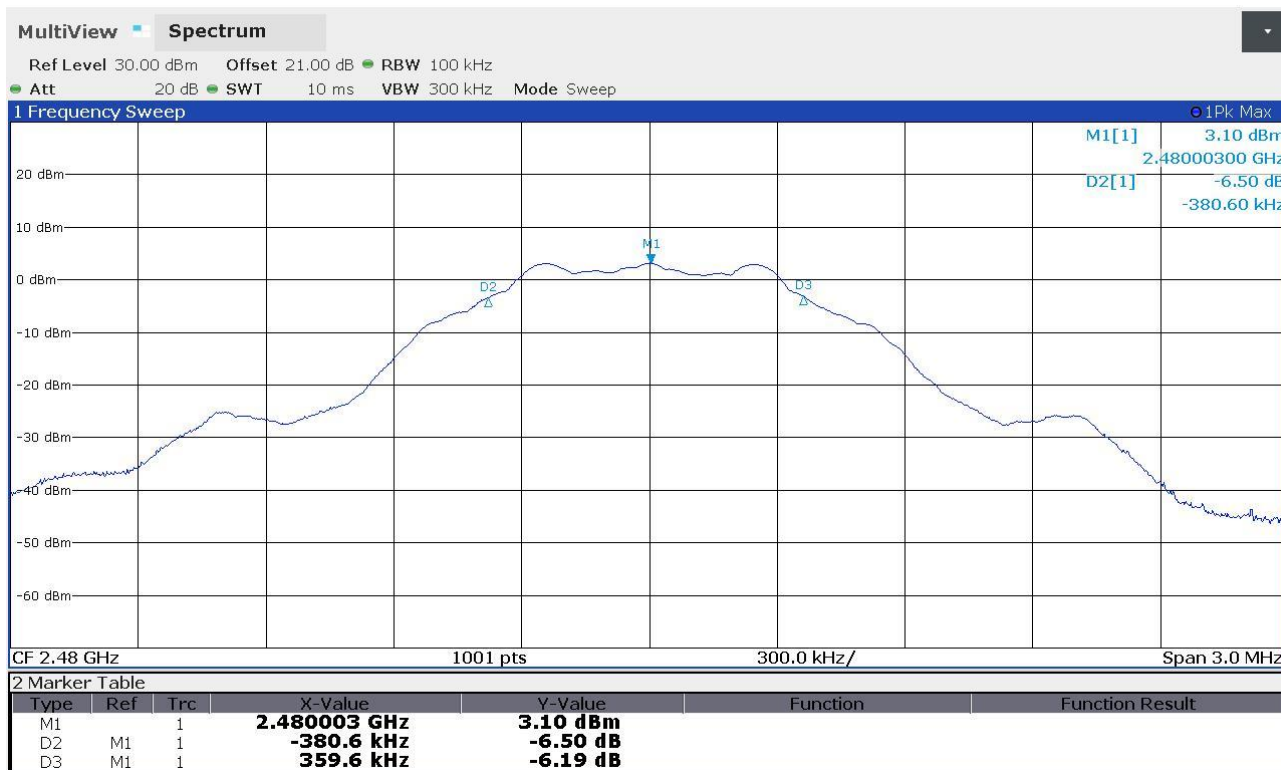


Segalla 20160332





Segalla 20160337





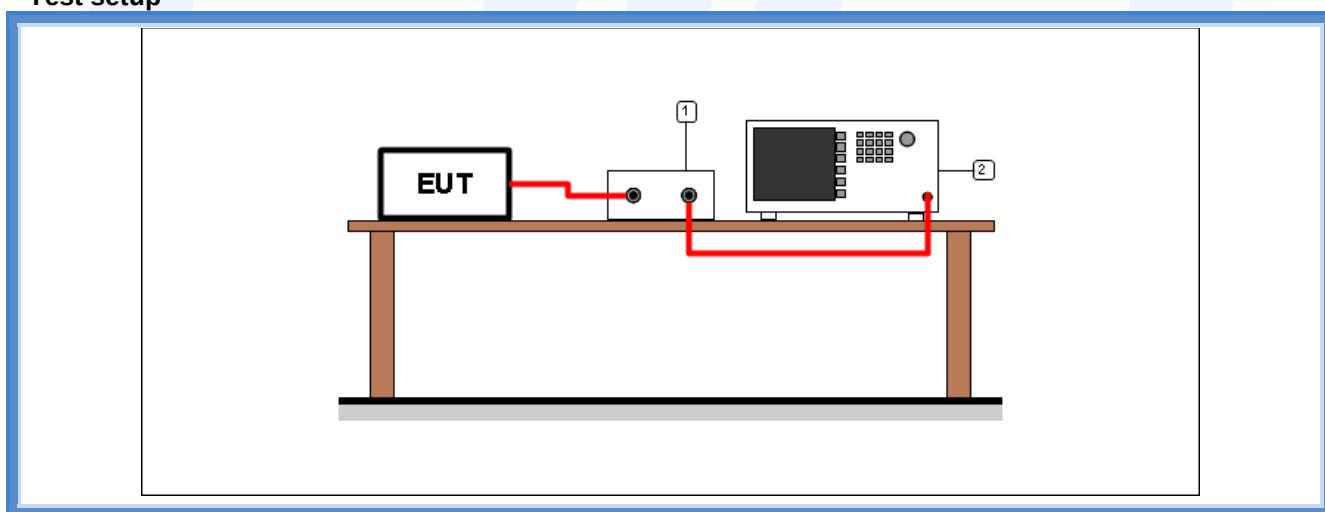
9.4 20 dB bandwidth

Tested by	M. Segalla
Test date	29.09.2020
Test location (stand)	Laboratory
Reference standards	FCC Rules and Regulation; Titles 47 Part. 15.215 (c) ANSI C63.10 cl. 7.8.7
Supplementary test set-up description	--
Supplementary information.....	--

Acceptance limits

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated

Test setup



Test setup PR002_01				
Nr.	Id. Number	Manufacturer	Model	Description
2	CMC S295	Rohde & Schwarz	FSW43	Spectrum Analyzer 43GHz
1	--	--	--	Cable + attenuator (calibrated before the test)

Result

Frequency (MHz)	Graphs	20 dB bandwidth (kHz)	Results
2400	G20160328	1126,80	Complies
2420	G20160333	1126,80	Complies
2480	G20160338	1123,80	Complies



Graphs

Segalla 20160328



Segalla 20160333





Segalla 20160338





9.5 Band edge

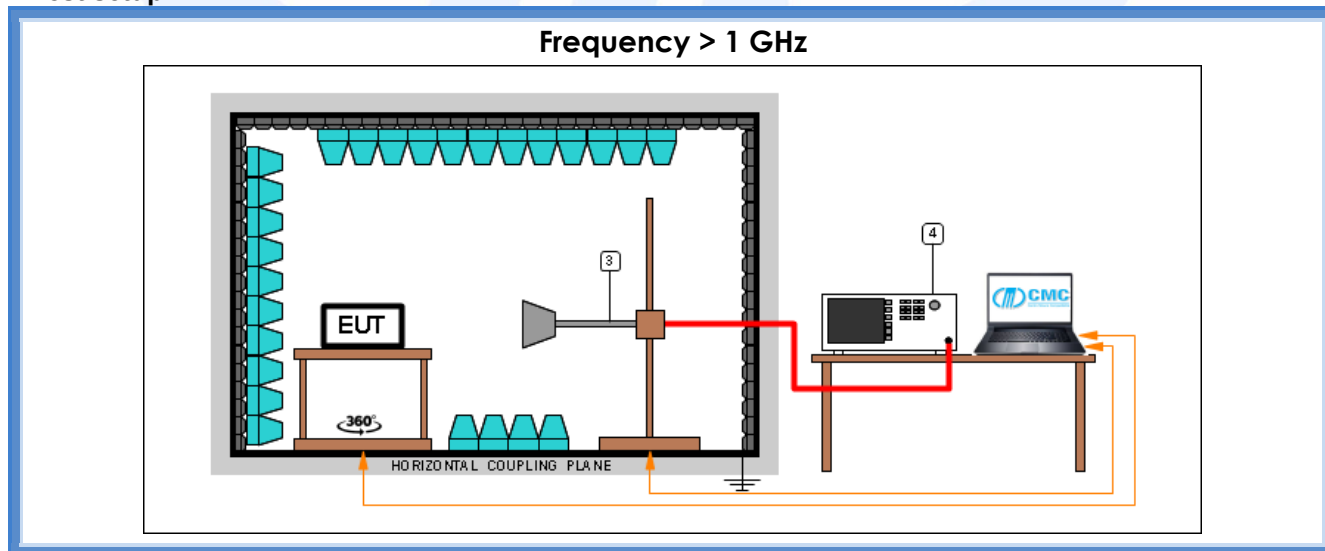
Tested by	M. Segalla
Test date	17.09.2020
Test location (stand)	Semi-anechoic chamber (CMC A070)
Reference standards	FCC Rules and Regulation; Titles 47 Part 15.205, 15.209, 15.247 (d) ANSI C63.10 cl. 11.11.1 and 11.12.1 KDB 558074 D01 DTS Meas Guidance v05r02 cl. 8.7
Supplementary test set-up description	--
Supplementary information	--

Acceptance limits

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

Operation within the band 2400 – 2483,5 MHz

Test setup



Test setup PE004_04				
Nr.	Id. Number	Manufacturer	Model	Description
4	CMC S164	Rohde & Schwarz	ESU26	Receiver 20 Hz - 26.5 GHz
3	CMC S108	Emco	3115	Waveguide antenna

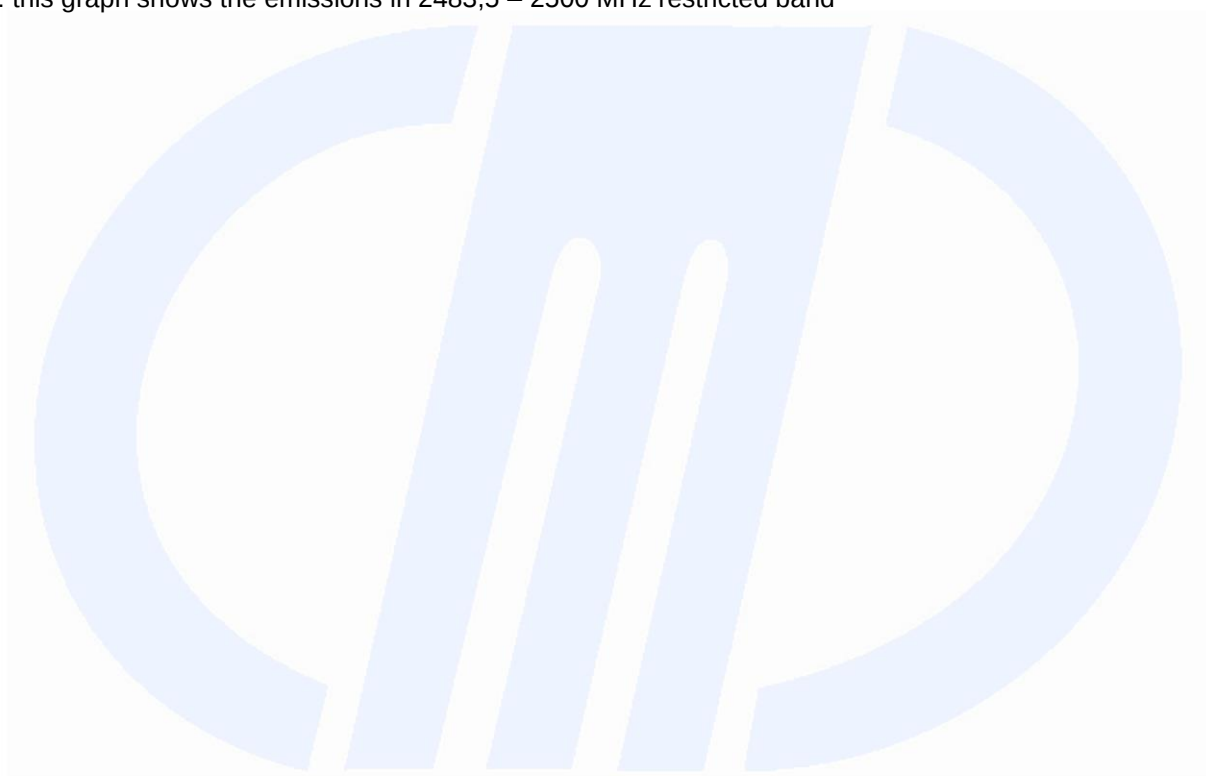


Result

Channel	Bandwidth	Graph(s)	Results	
Lowest	1 MHz	G20160316	--	*
Lowest	100 kHz	G20160317	2401,37 MHz	Complies
Highest	1 MHz	G20160318	2483,47 MHz	Complies
Highest	1 MHz	G20160319	--	**

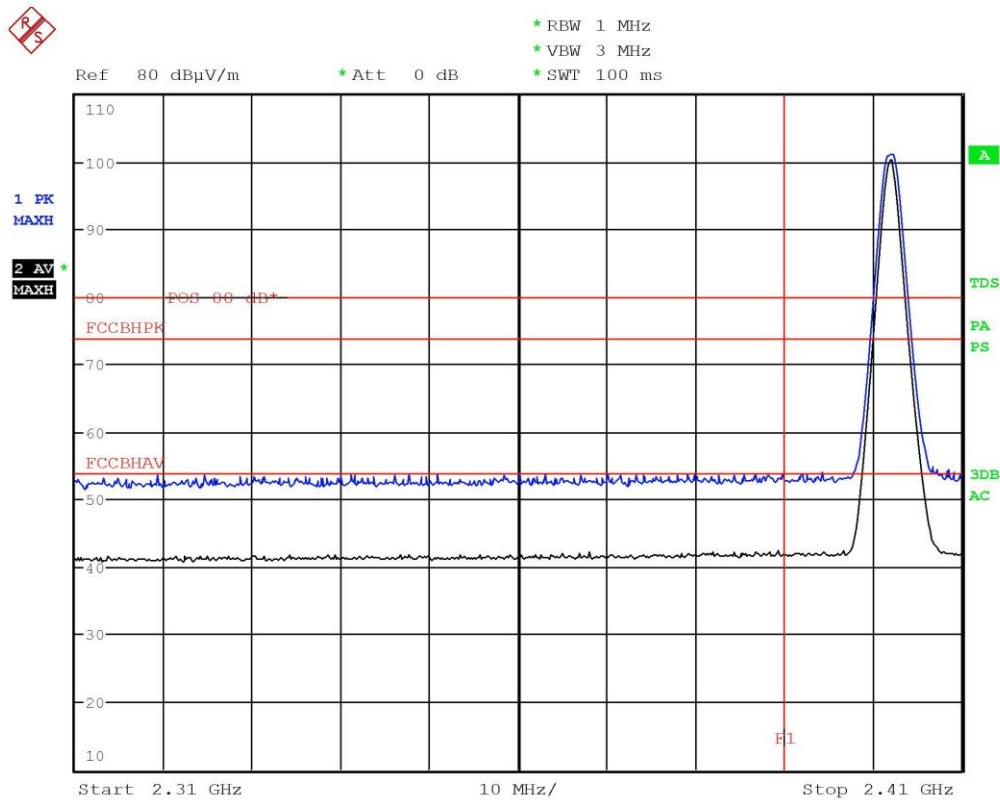
*: this graph shows the emissions in 2310 – 2390 MHz restricted band

** : this graph shows the emissions in 2483,5 – 2500 MHz restricted band

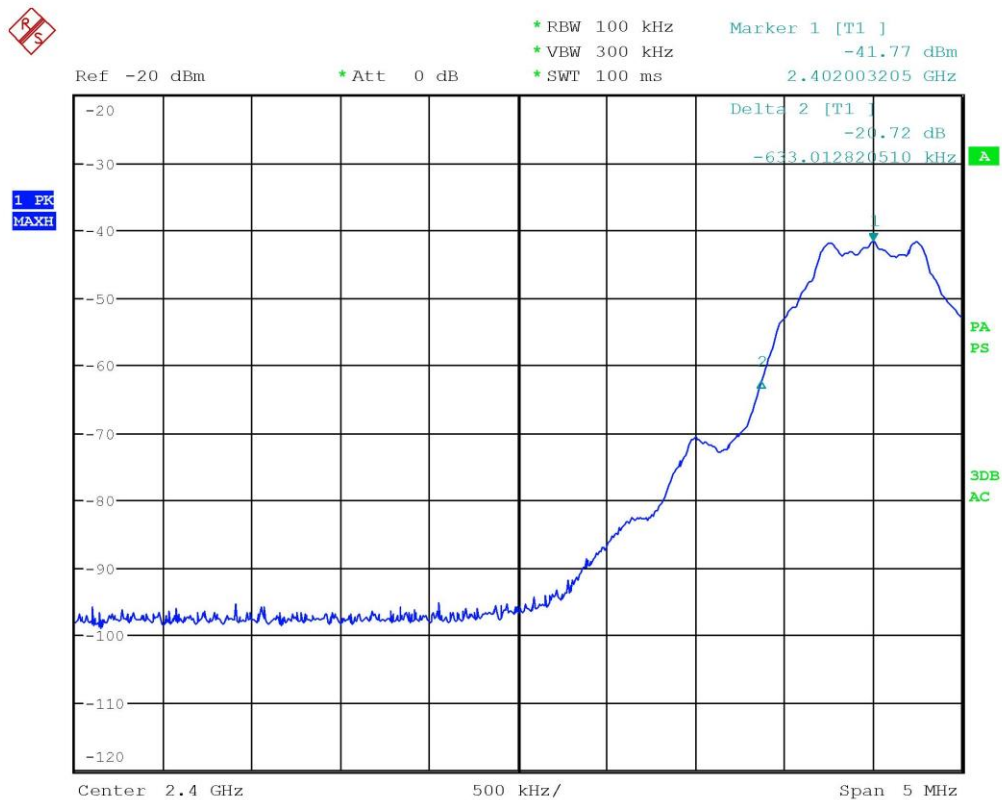




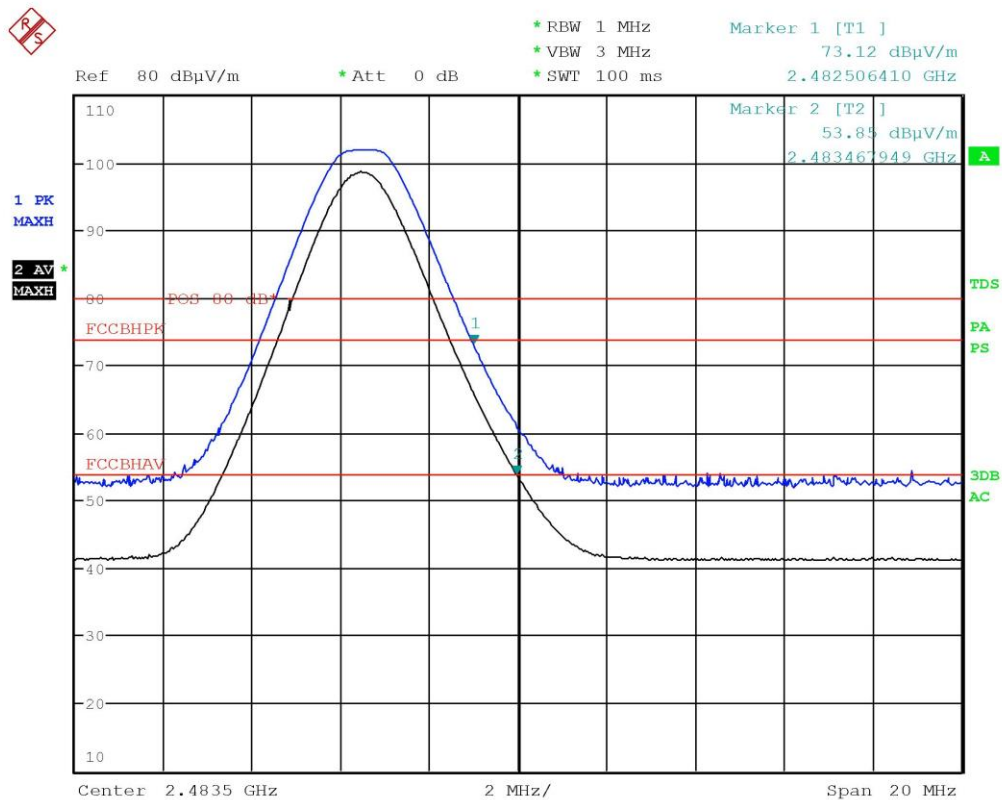
Graphs



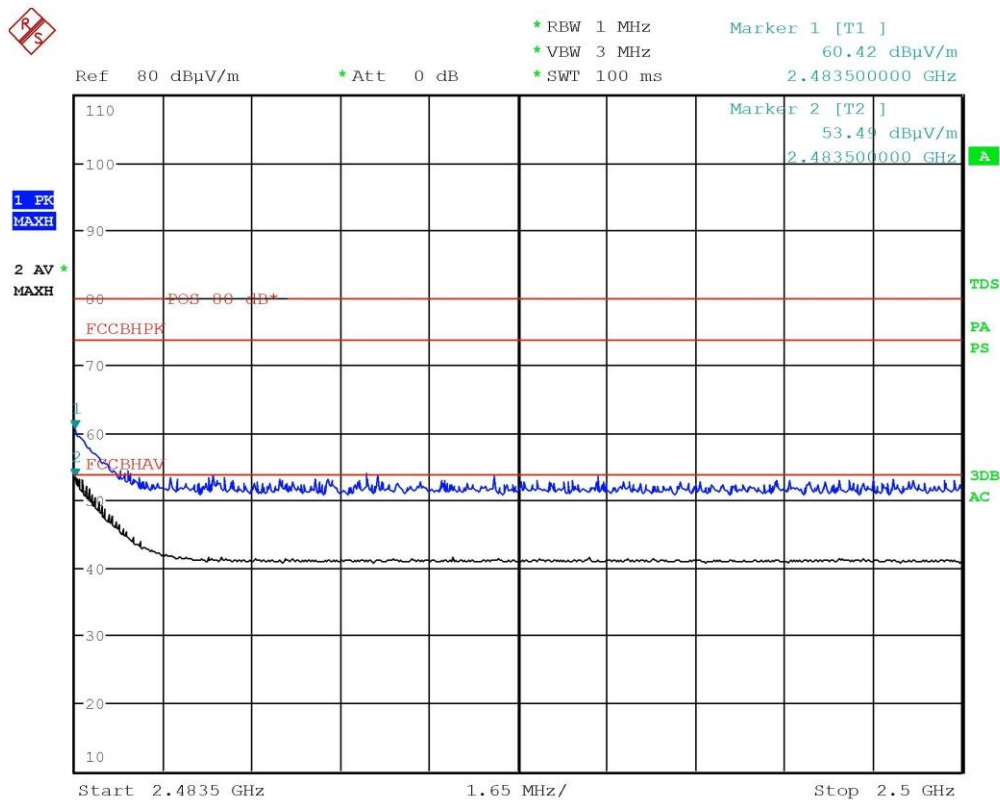
Segalla 20160316



Segalla 20160317



Segalla 20160318



Segalla 20160319



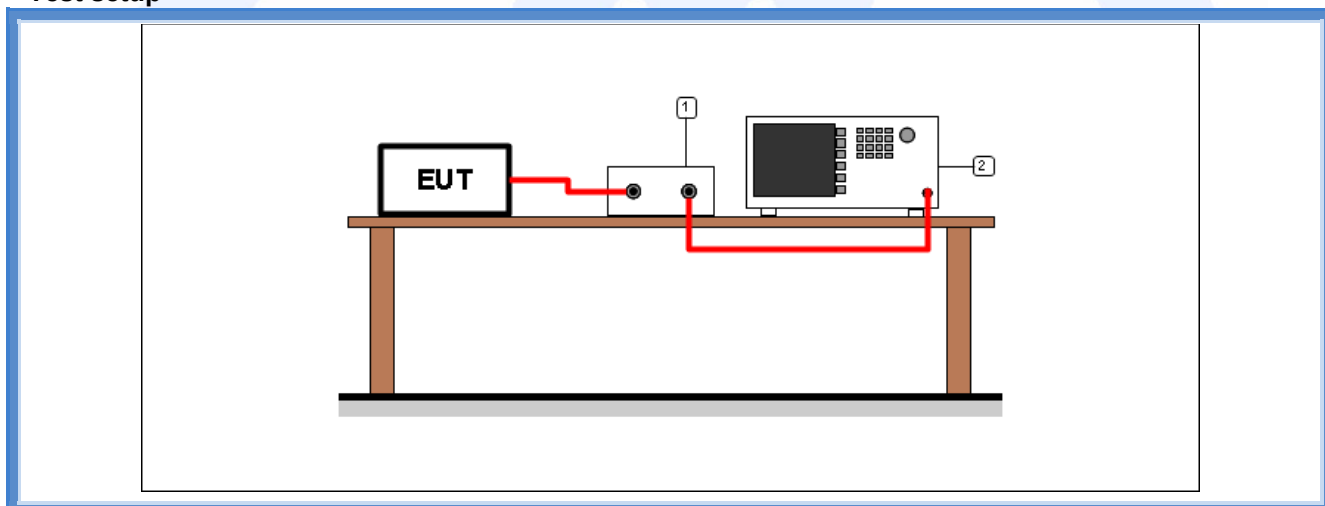
9.6 Fundamental emission output power

Tested by	M. Segalla
Test date	04.09.2020
Test location (stand)	Laboratory
Reference standards	FCC Rules and Regulation; Titles 47 Part 15.247 (b) (3) ANSI C63.10 cl. 11.9.1.1 KDB 558074 D01 DTS Meas Guidance v05r02 cl. 8.3.1.1
Supplementary information.....	--

Acceptance limits

For systems using digital modulation in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands: 1 Watt

Test setup



Test setup PR002_01				
Nr.	Id. Number	Manufacturer	Model	Description
2	CMC S295	Rohde & Schwarz	FSW43	Spectrum Analyzer 43GHz
1	--	--	--	Cable + attenuator (calibrated before the test)

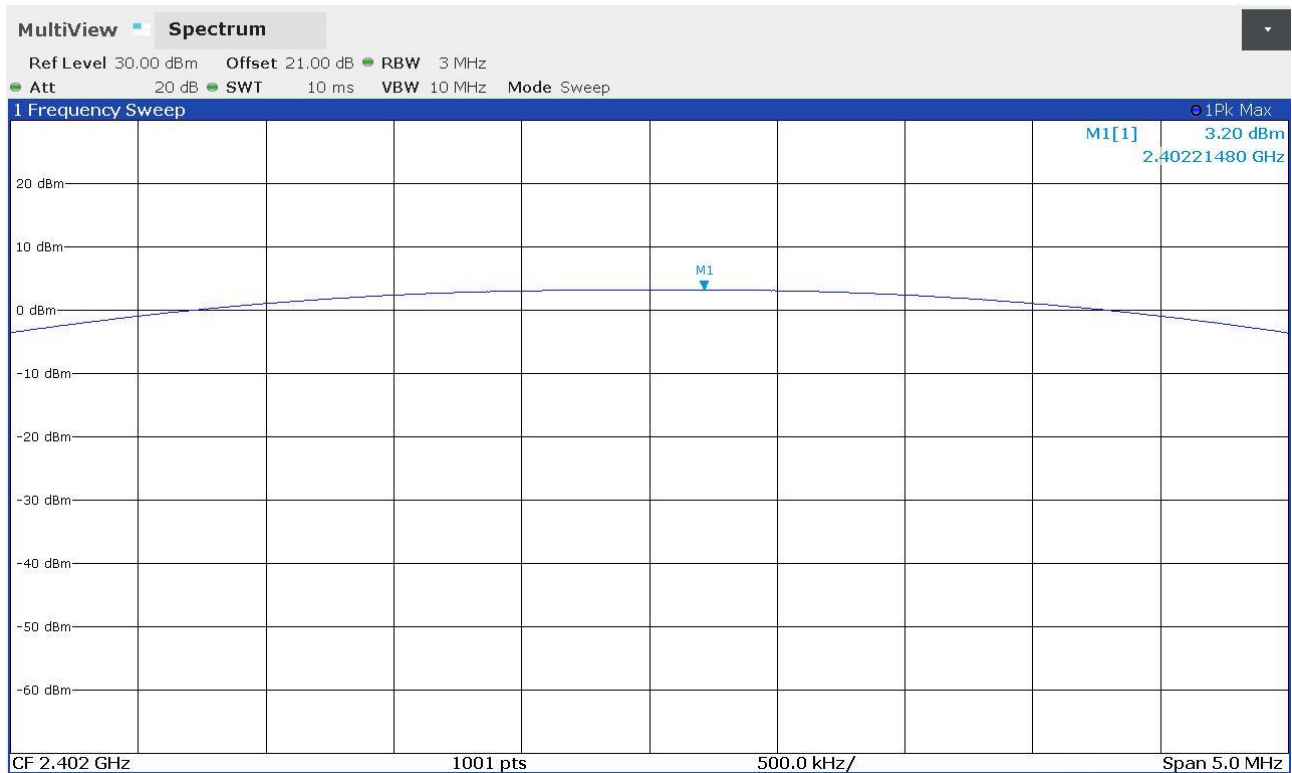
Result

Frequency (MHz)	Graphs	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (mW)
2402	G20160330	3,20	2,09	1000
2440	G20160335	3,86	2,43	1000
2480	G20160340	3,75	2,37	1000

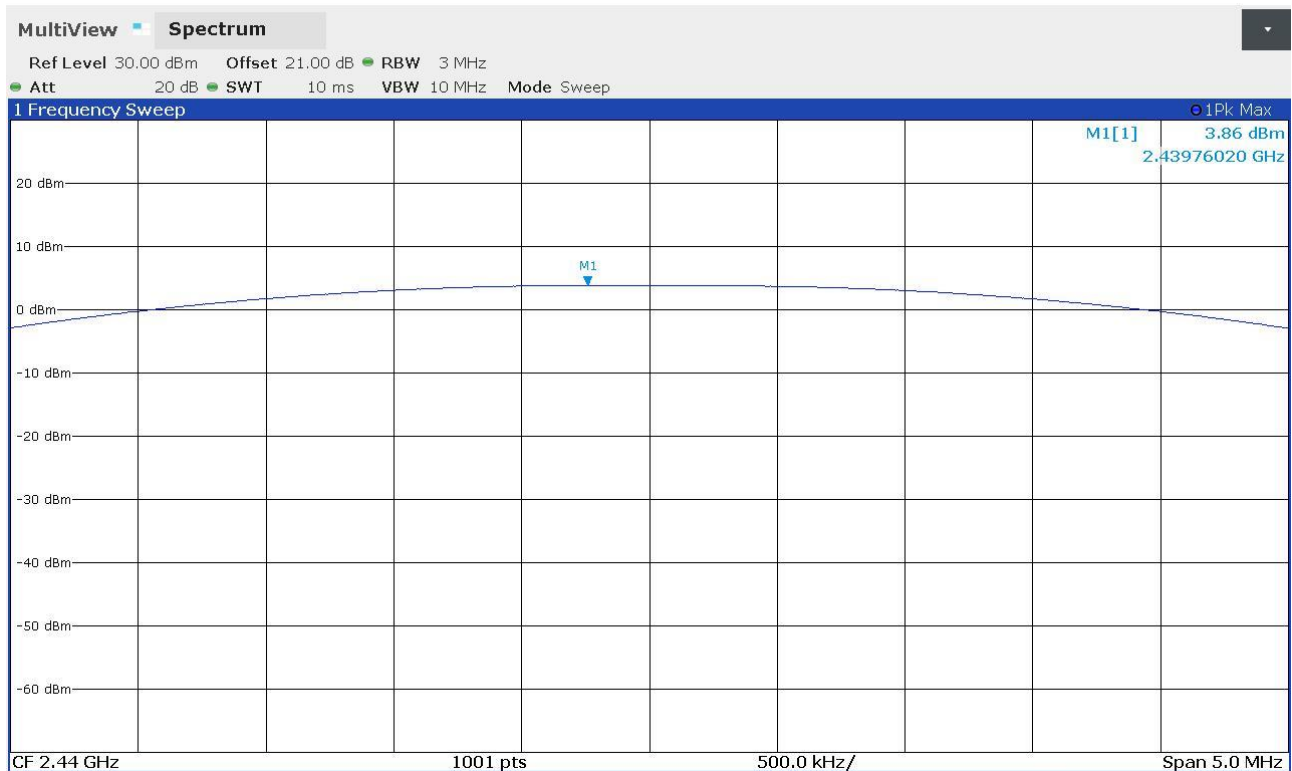


Graphs

Segalla 20160330

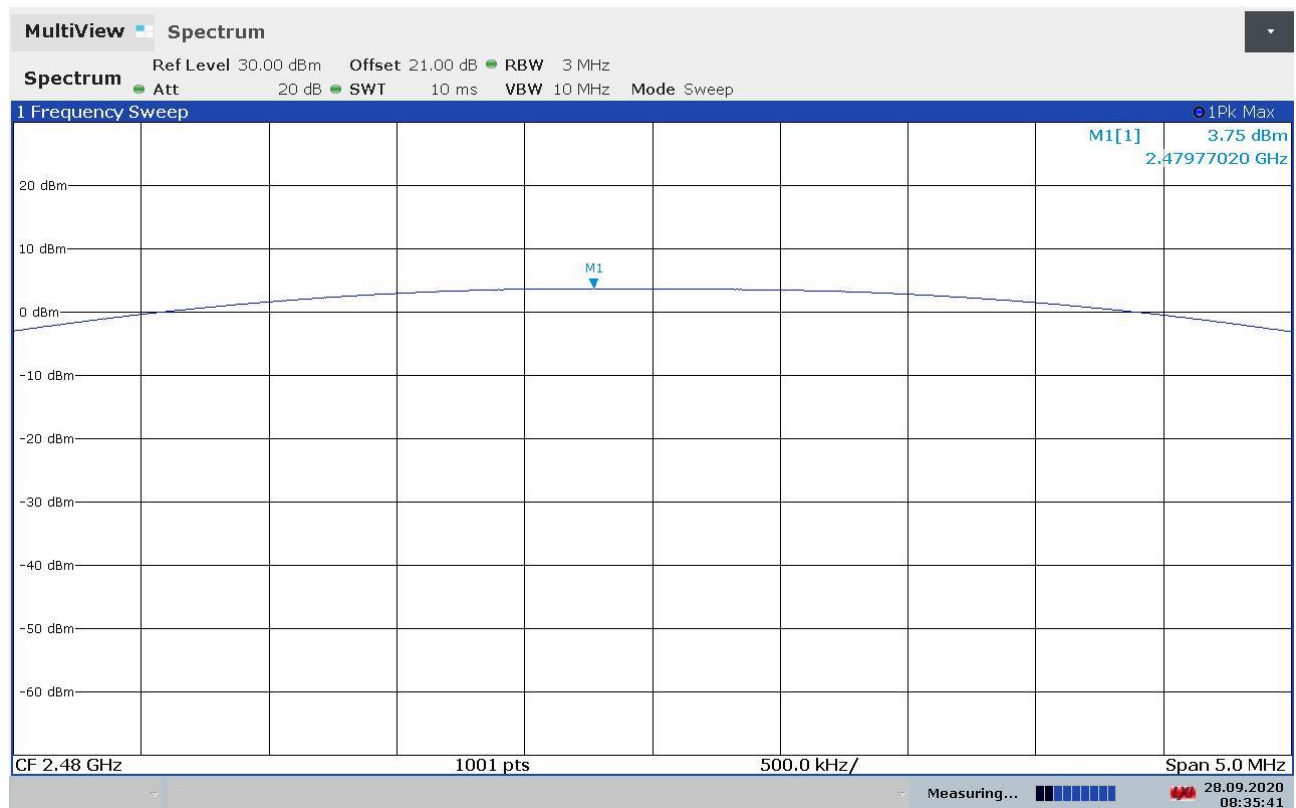


Segalla 20160335





Segalla 20160340





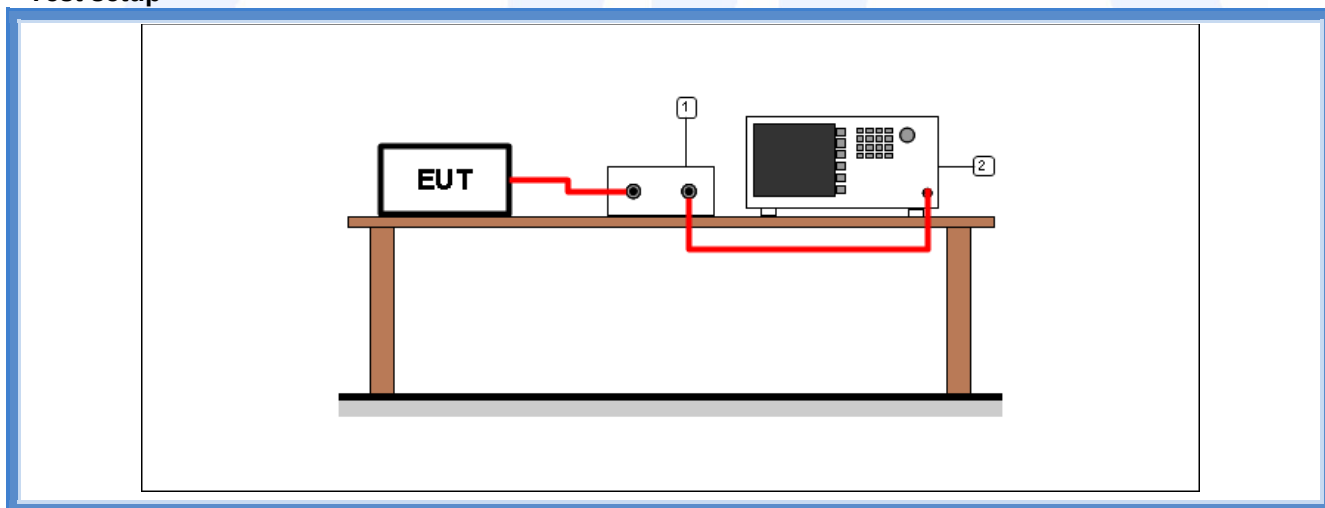
9.7 Maximum power spectral density level in the fundamental emission

Tested by	M. Segalla
Test date	28.09.2020
Test location (stand)	Laboratory
Reference standards	FCC Rules and Regulation; Titles 47 Part 15.247 (e) ANSI C63.10 cl. 11.10.2 KDB 558074 D01 DTS Meas Guidance v05r02 cl. 8.4
Supplementary information	--

Acceptance limits

Frequency Range	Power Spectral Density
2400 – 2483,5 MHz	8 dBm/3 kHz 6,31 mW/3 kHz

Test setup



Test setup PR002_01

Nr.	Id. Number	Manufacturer	Model	Description
2	CMC S295	Rohde & Schwarz	FSW43	Spectrum Analyzer 43GHz
1	--	--	--	Cable + attenuator (calibrated before the test)

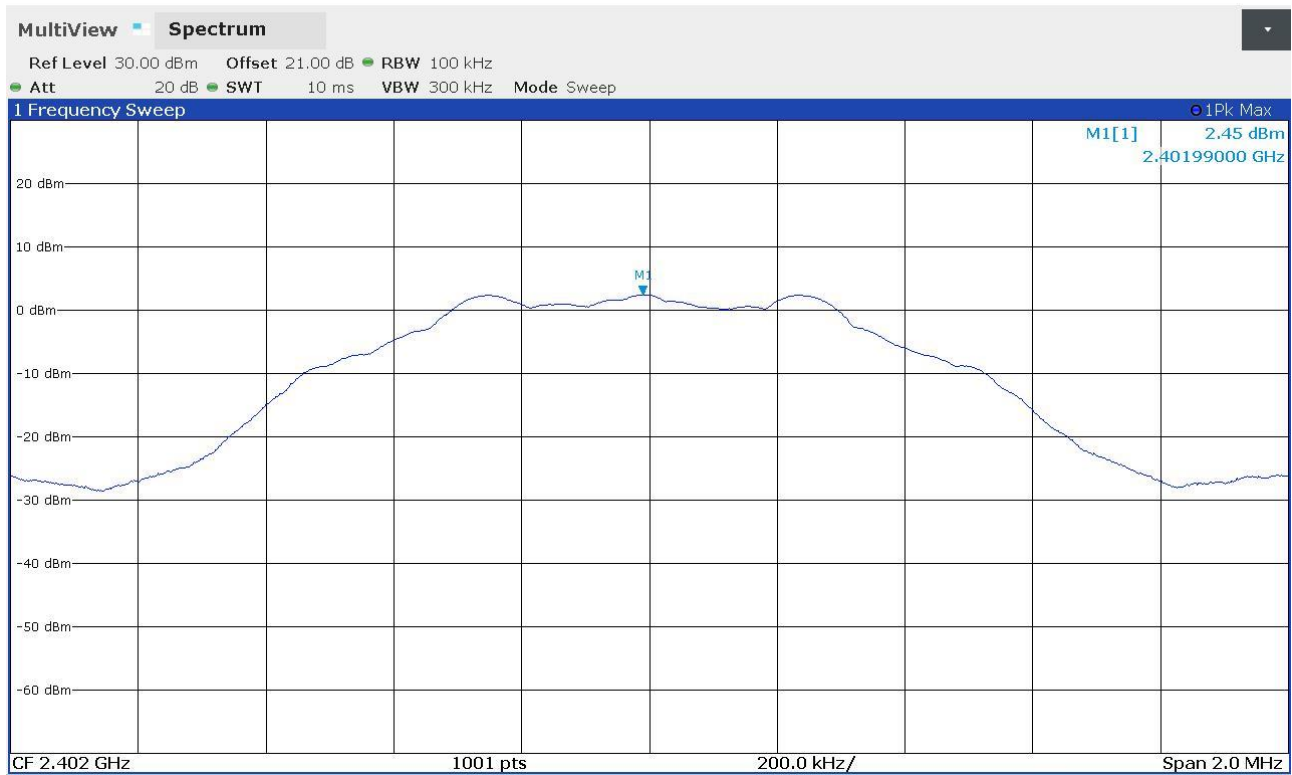
Result

Frequency (MHz)	Graphs	Measured level (dBm/3 kHz)	Limits (dBm/3 kHz)
2402	G20160331	2,45	8,00
2440	G20160336	3,21	8,00
2480	G20160341	3,08	8,00

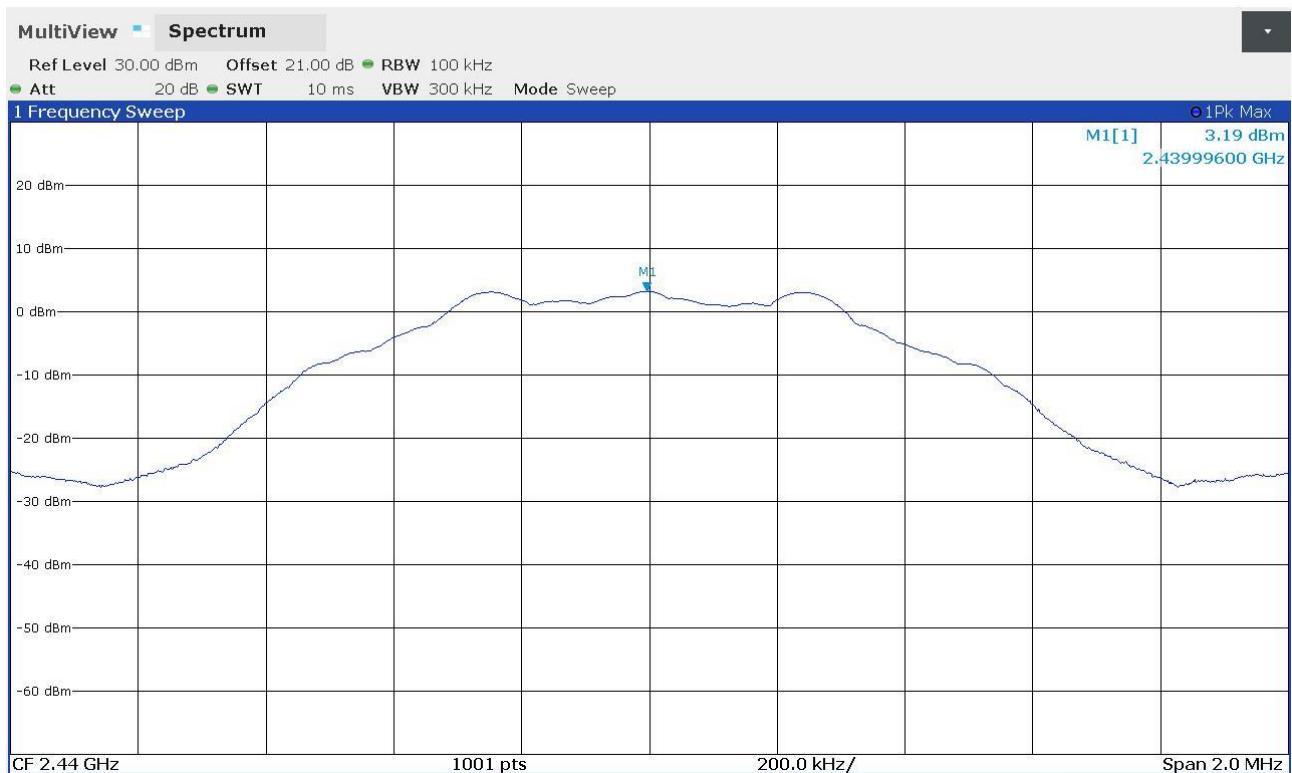


Graphs

Segalla 20160331

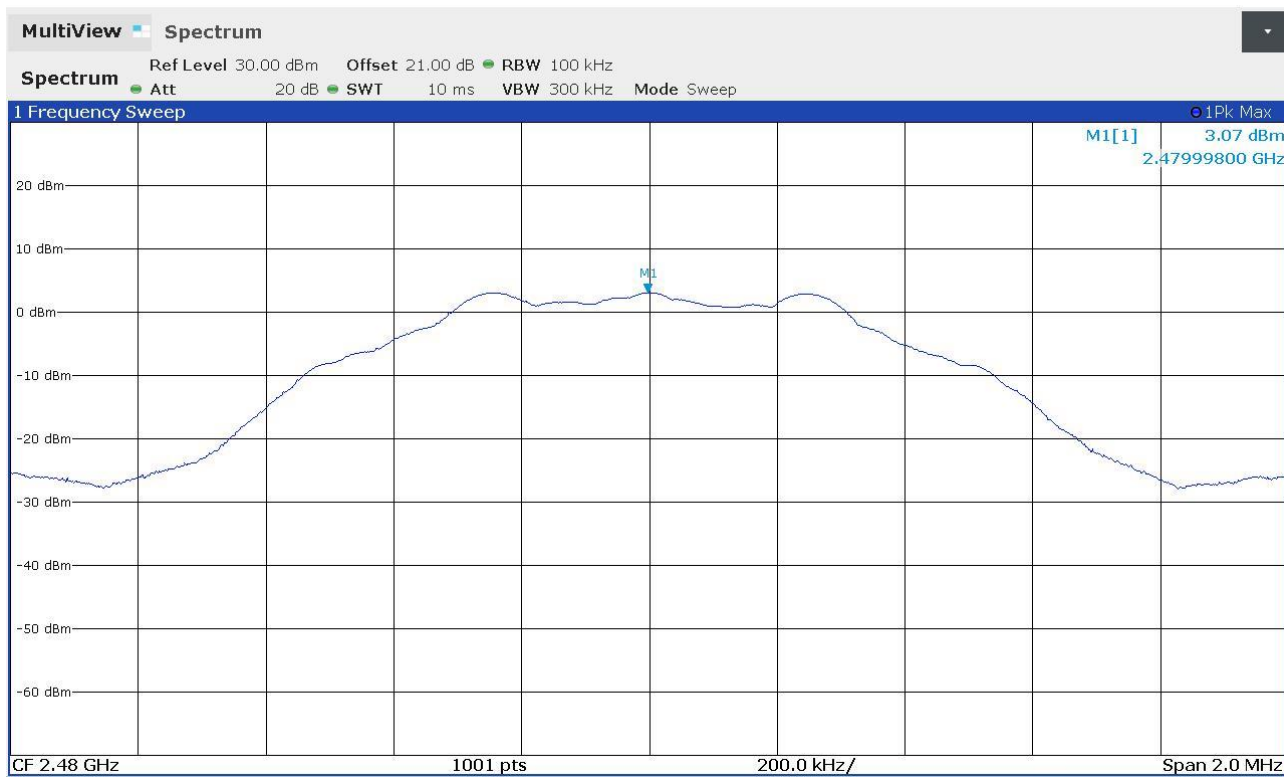


Segalla 20160336





Segalla 20160341





Attachment 1

Instruments 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 '20	January '21
CMC S108	EMCO	3115	Horn Antenna	9811-5622	June '19	June '22
CMC S127	Schaffner	HLA6120	Loop Antenna	1191	November '18	November '23
CMC S164	Rohde & Schwarz	ESU26	EMC interference receiver	100052	January '20	January '21
CMC S200	Schwarzbeck	NSLK 8128	V-LISN	8128-273	January '20	January '21
CMC S206	Rohde & Schwarz	ESCI 7	EMC Receiver 9KHz-7GHz	100781	January '20	January '21
CMC S260	CMC	Wfr_N	Shielded Cable	Wfr_ant10-1	November '19	November '20
CMC S261	CMC	Wfr_N	Shielded Cable	Wfr_ant20-1	November '19	November '20
CMC S262	CMC	Wfr_N_fix	Shielded Cable	Wfr_fix32-1	November '19	November '20
CMC S263	CMC	Wfr_N_fix	Shielded Cable	Wfr_fix31-1	November '19	November '20
CMC S264	CMC	Wfr_N	Shielded Cable	Wfr_ext03-1	November '19	November '20
CMC S271	Schwarzbeck	BBA 9106 + VHBB 9124	Biconical Antenna (30-300MHz)	831	June '19	June '22
CMC S287	Schwarzbeck	VUSLP 9111B	Log-periodic Antenna (200 MHz-3GHz)	9111B-203	June '19	June '22
CMC S288	CMC	W_sma_white	Joint Shielded Cable	W_001	November '19	November '20
CMC S290	Schwarzbeck	BBHA 9170	Horn Antenna (15-40 GHz)	733	October '16	October '21
CMC S295	Rohde & Schwarz	FSW43	Spectrum Analyzer 43GHz	104059	November '19	November '22



Attachment 1

Measurement uncertainty

Test	Test Setup	Expanded uncertainty	Note
Conducted emission CISPR 16 LISN 50uH 0,009-0,0150 MHz	PE001_01	3,4 dB	1
Conducted emission CISPR 16 LISN 50uH 0,150-30,0 MHz	PE001_01	3,0 dB	1
Conducted emission CISPR 16 Voltage Probe 0,15-30 MHz	PE001_02	2,9 dB	1
Conducted emission CISPR 16 Current Probe 0,15-30 MHz	PE001_03	2,6 dB	1
Conducted emission CISPR 16 ISN 0,15-30 MHz	PE001_04	4,7 dB	1
Clic CISPR 16 LISN 50uH 0,150-30,0 MHz	PE001_05	2,9 dB	1
Radiated Emission CDNE 30-300 MHz	PE001_06	3,3 dB	1
Disturbance Power 30-300 MHz	PE002_01	3,6 dB	1
Radiated Emission LAS 0,15-30 MHz	PE003_01	2,0 dB	1
Radiated Emission CISPR 16 Loop Ant. 0,15-30 MHz	PE004_01	4,0 dB	1
Radiated Emission CISPR 16 Bicon. Ant. 30-300 MHz	PE004_02	3,9 dB	1
Radiated Emission CISPR 16 LogP. Ant. 300-1000 MHz	PE004_03	3,8 dB	1
Radiated Emission CISPR 16 Horn Ant. 1-18 GHz	PE004_04	4,2 dB	1
Human Exposure to electromagnetic fields	PE005_01	23,6 %	1
Harmonics	PE006_01	10 mA + 2,6 %	1
Flicker	PE007_01	4,79 %	1
Radiated Immunity 80 MHz - 6 GHz	PE102_XX	1,95 dB 0,75 V/m a 3V/m	1
Conducted Immunity 0,15 - 230 MHz	PE105_XX	1,20 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	6,25 % 18,7 A/m a 300A/m	1
Dumped Magnetic field	PE108_01	6,25 % 1,87 A/m a 30A/m	1
Common mode conducted immunity	PE112_01	2,21 % 0,22 V a 10V	1



Attachment 1

Test	Test Setup	Expanded uncertainty	Note
Power/Spurious 9kHz-30MHz	PR001_01	4,0 dB	1
Power/Spurious ERP 30-1000MHz d=10m	PR001_02+03	4,7 dB	1
Misura della potenza EIRP 1-18GHz d=3m	PR001_04+05	4,7 dB	1
Misura della potenza EIRP 18-40GHz d=3m	PR001_06	5,4 dB	1
Frequency error	PR002_01+02	< 1x10 ⁻⁷	1
Timing zero span (1001pts.)	PR002_01+02	0,2 % SWT	1
Modulation bandwidth	PR002_01+02	< 1x10 ⁻⁷	1
Conducted RF power and spurious emission	PR002_01+02	1,1 dB	1
Adjacent channel power	PR002_01+02	1,1 dB	1
Blocking	PR002_01+02	1,1 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
Ring Wave immunity test	PE110_01		2
Low frequency immunity test	PE111_01		2
Dumped Oscillatory immunity test	PE113_01		2
Rev. 20_02 date 24/02/2020			

Note 1:

The expanded uncertainty reported according to the document EA-4-02 is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of p = 95%

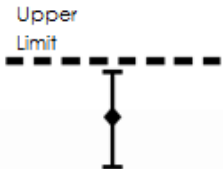
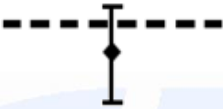
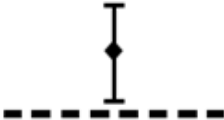
Note 2:

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



Attachment 1

Judgement of compliance

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

Quality manual references – Internal procedure

Internal Procedure PM001 rev. 3.0 (Quality Manual)	Measure procedure
Internal Procedure INC_M rev. 9.1 (Quality Manual)	Measurement uncertainty calculation