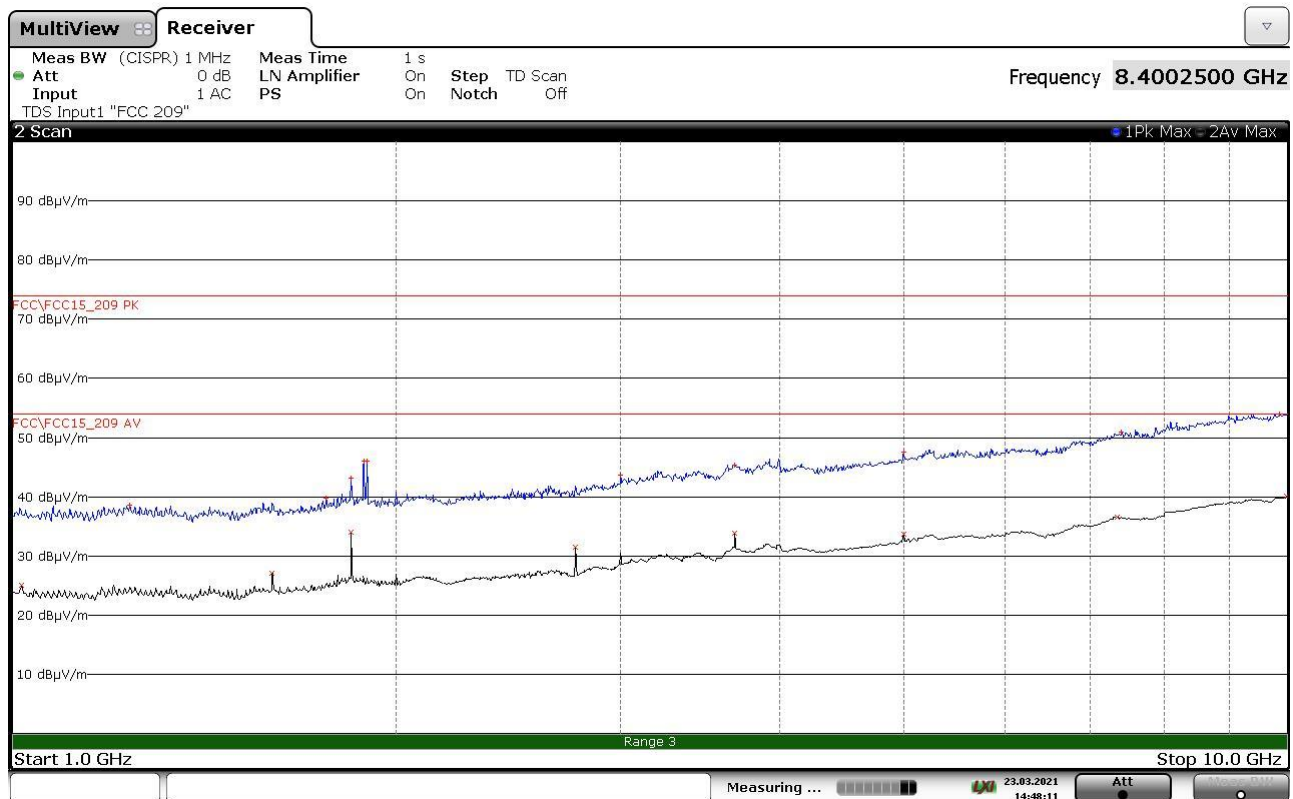




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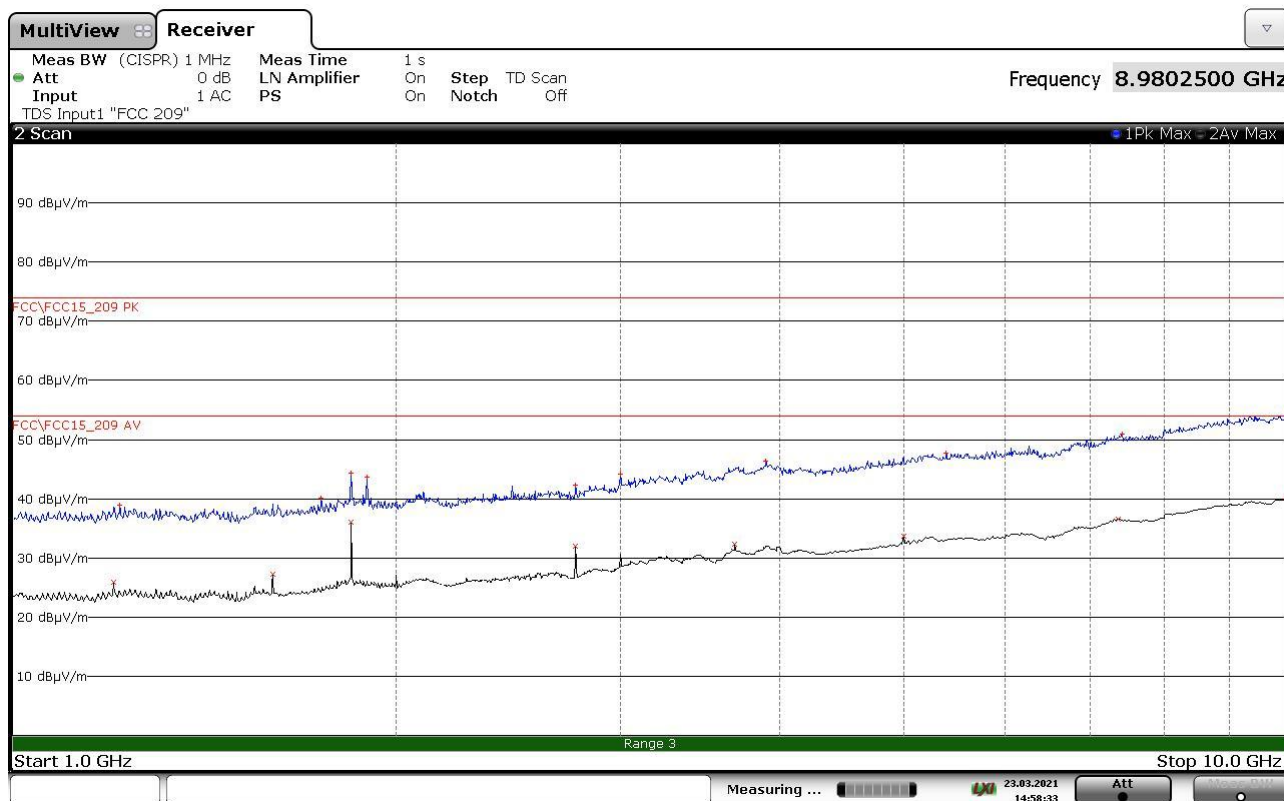
FINAL RESULT TABLE

MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
1236000000	+38,51	-35,47	1017000000	+25,11	-28,87
1763000000	+39,68	-34,30	1599000000	+27,14	-26,84
1842750000	+43,17	-30,81	1842750000	+33,94	-20,04
1885250000	+45,98	-28,00	2764250000	+31,46	-22,52
1897750000	+46,03	-27,95	3685750000	+33,82	-20,16
2999000000	+43,65	-30,33	4999250000	+33,68	-20,30
3683000000	+45,42	-28,56	7350250000	+36,56	-17,42
4998500000	+47,59	-26,39	9990500000	+40,05	-13,93
7402000000	+51,01	-22,97			
9854500000	+53,95	-20,03			

21057222_2



Segalla 21057223



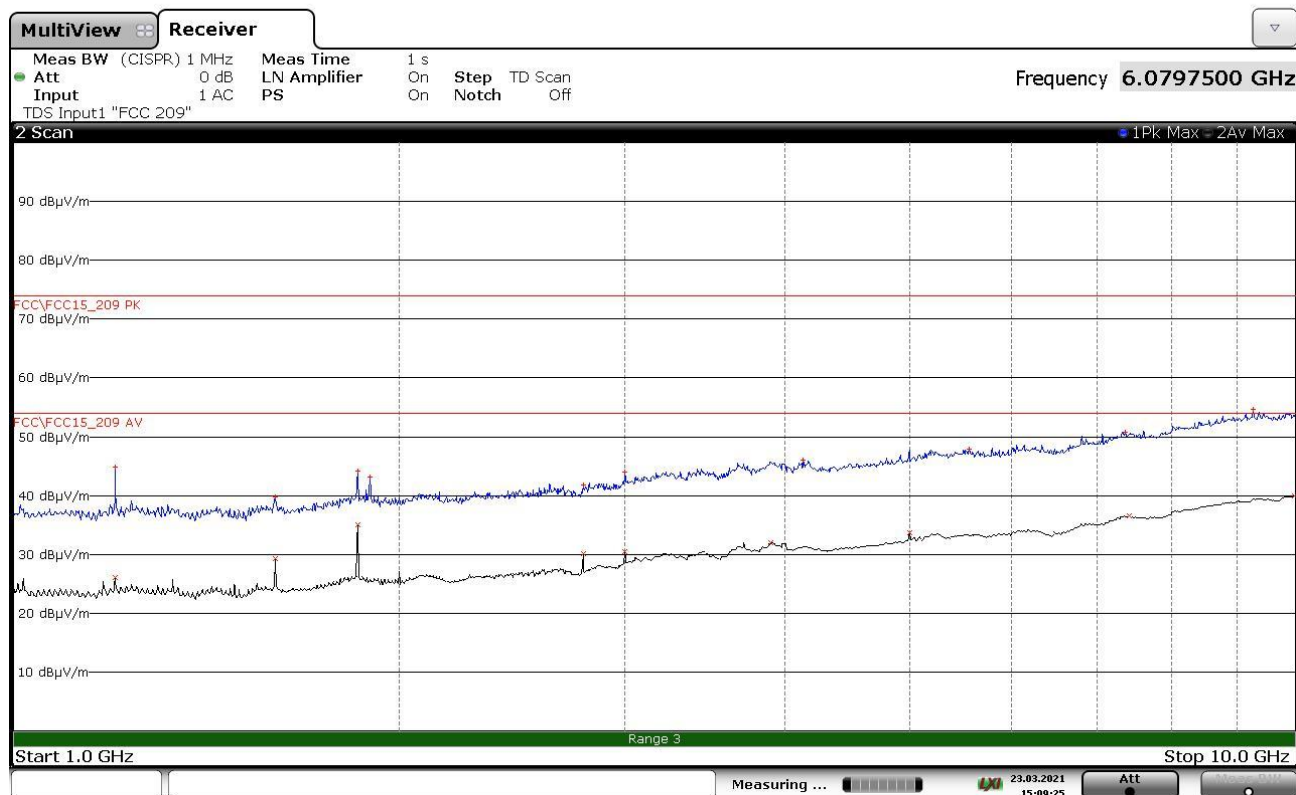
FINAL RESULT TABLE

MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
1214250000	+38,95	-35,03	1200000000	+25,81	-28,17
1746000000	+40,03	-33,95	1599750000	+27,20	-26,78
1842750000	+44,37	-29,61	1842750000	+36,04	-17,94
1897750000	+43,69	-30,29	2764250000	+32,05	-21,93
2764250000	+42,38	-31,60	3685750000	+32,24	-21,74
2999250000	+44,11	-29,87	4998750000	+33,65	-20,33
3898500000	+46,40	-27,58	7371500000	+36,54	-17,44
5399750000	+47,79	-26,19	9990750000	+40,03	-13,95
7415000000	+50,89	-23,09			
9992500000	+54,42	-19,56			

21057223_2



Segalla 21057224



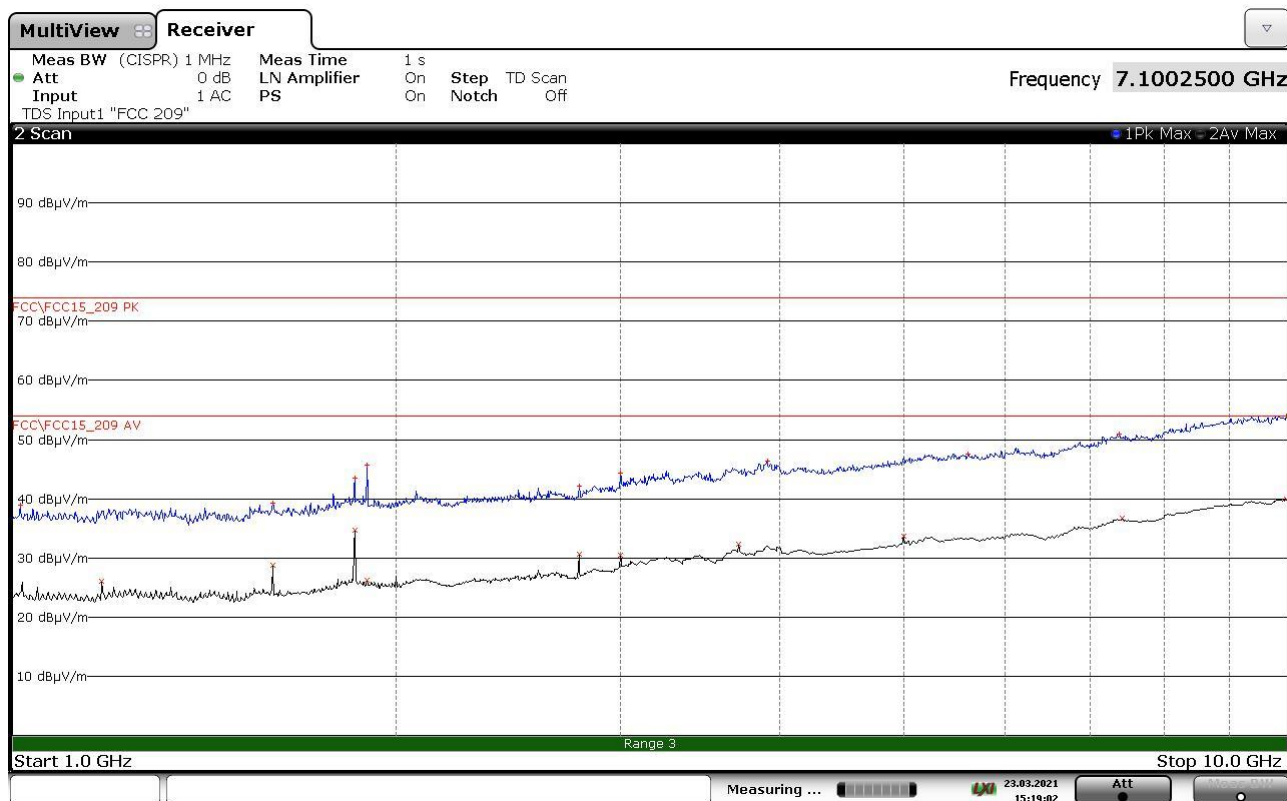
FINAL RESULT TABLE

MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
1200750000	+44,88	-29,10	1199750000	+26,13	-27,85
1600000000	+39,80	-34,18	1600500000	+29,33	-24,65
1855750000	+44,14	-29,84	1855500000	+35,06	-18,92
1897750000	+43,22	-30,76	2783500000	+30,13	-23,85
2783500000	+41,77	-32,21	2999750000	+30,46	-23,52
2999250000	+43,94	-30,04	3899250000	+32,01	-21,97
4131250000	+45,99	-27,99	4999250000	+33,62	-20,36
5565250000	+47,95	-26,03	7422500000	+36,60	-17,38
7369000000	+50,77	-23,21	9990000000	+40,01	-13,97
9267250000	+54,60	-19,38			

21057224_2



Segalla 21057225



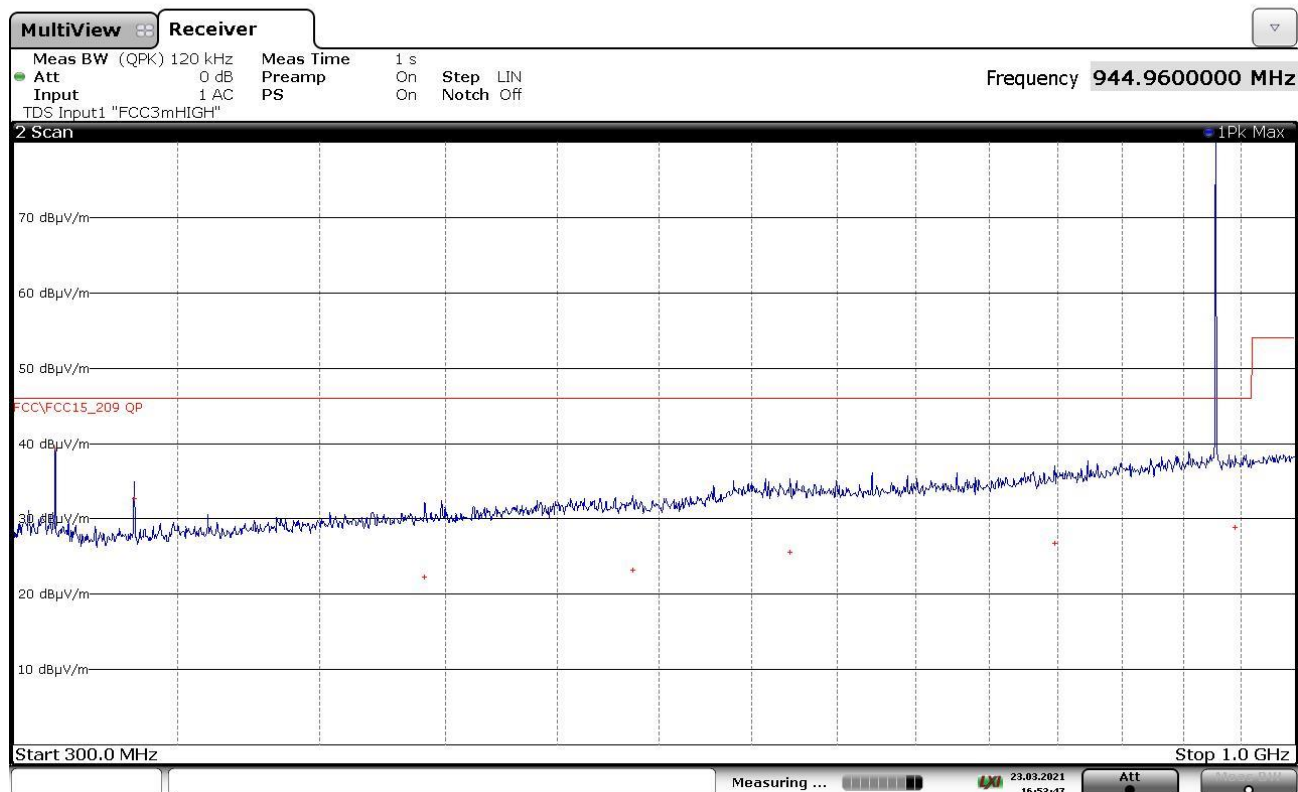
FINAL RESULT TABLE

MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
1014000000	+38,85	-35,13	1174250000	+26,02	-27,96
1600750000	+39,32	-34,66	1600250000	+28,81	-25,17
1855500000	+43,51	-30,47	1855500000	+34,61	-19,37
1897750000	+45,67	-28,31	1897250000	+26,26	-27,72
2783250000	+42,16	-31,82	2783500000	+30,57	-23,41
2999500000	+44,35	-29,63	2999750000	+30,43	-23,55
3909250000	+46,44	-27,54	3711250000	+32,39	-21,59
5620250000	+47,59	-26,39	4999000000	+33,59	-20,39
7381000000	+50,90	-23,08	7422500000	+36,68	-17,30
9976500000	+53,92	-20,06	9990250000	+40,00	-13,98

21057225_2



Segalla 21057226



FINAL RESULT TABLE

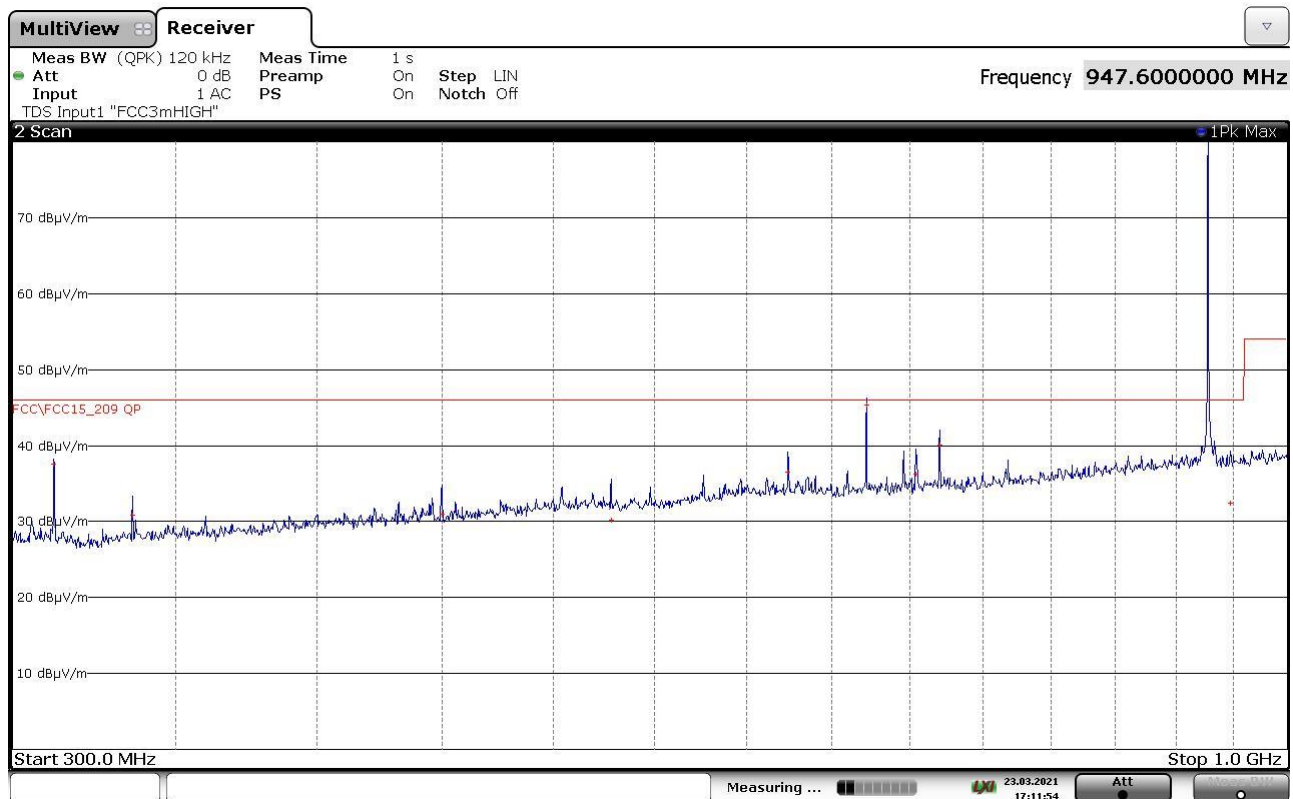
QUASI PEAK

Freq Hz	Lev dBuV/m	Margin dB
312000000	+39,44	-6,58
336000000	+32,68	-13,34
441440000	+22,32	-23,70
536640000	+23,22	-22,80
622280000	+25,58	-20,44
797480000	+26,75	-19,27
944960000	+28,90	-17,12

21057226_2



Segalla 21057227



FINAL RESULT TABLE

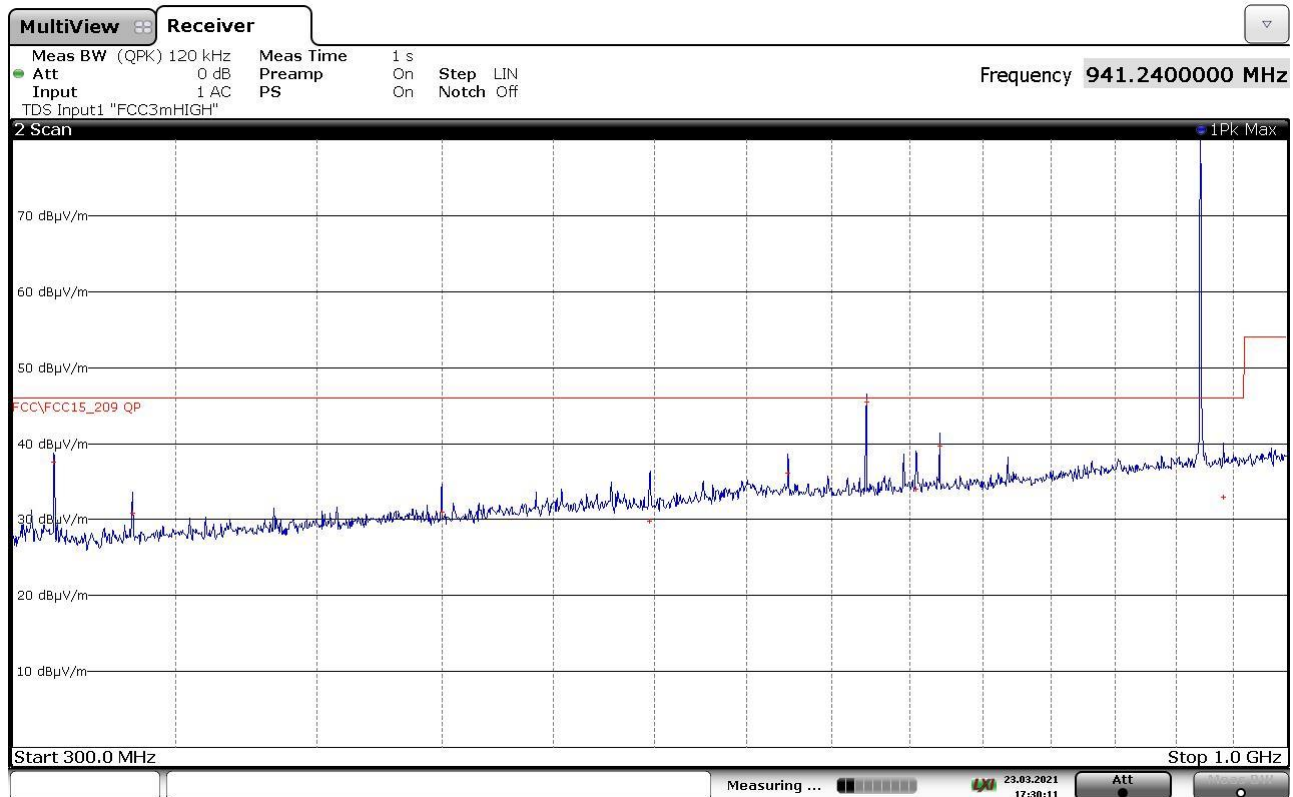
QUASI PEAK

Freq Hz	Lev dBuV/m	Margin dB
312000000	+37,61	-8,41
336000000	+30,81	-15,21
449960000	+31,02	-15,00
527960000	+30,23	-15,79
624000000	+36,52	-9,50
672000000	+45,30	-0,72
704120000	+36,18	-9,84
720000000	+40,05	-5,97
947600000	+32,45	-13,57

21057227_2



Segalla 21057228



FINAL RESULT TABLE

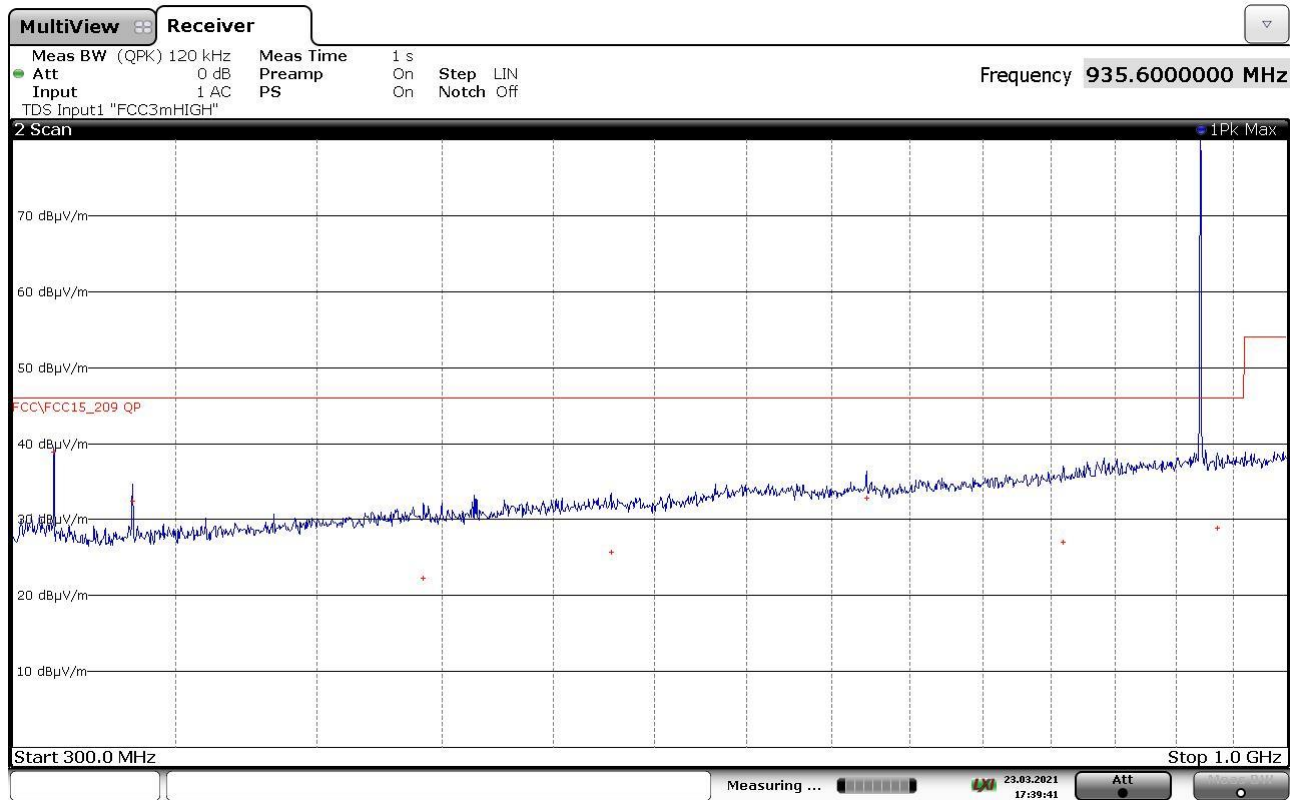
QUASI PEAK

Freq Hz	Lev dBuV/m	Margin dB
312000000	+37,55	-8,47
336000000	+30,87	-15,15
449960000	+31,02	-15,00
547640000	+29,79	-16,23
624000000	+36,06	-9,96
672000000	+45,47	-0,55
704240000	+33,99	-12,03
720000000	+39,65	-6,37
941240000	+32,93	-13,09

21057228_2



Segalla 21057229



FINAL RESULT TABLE

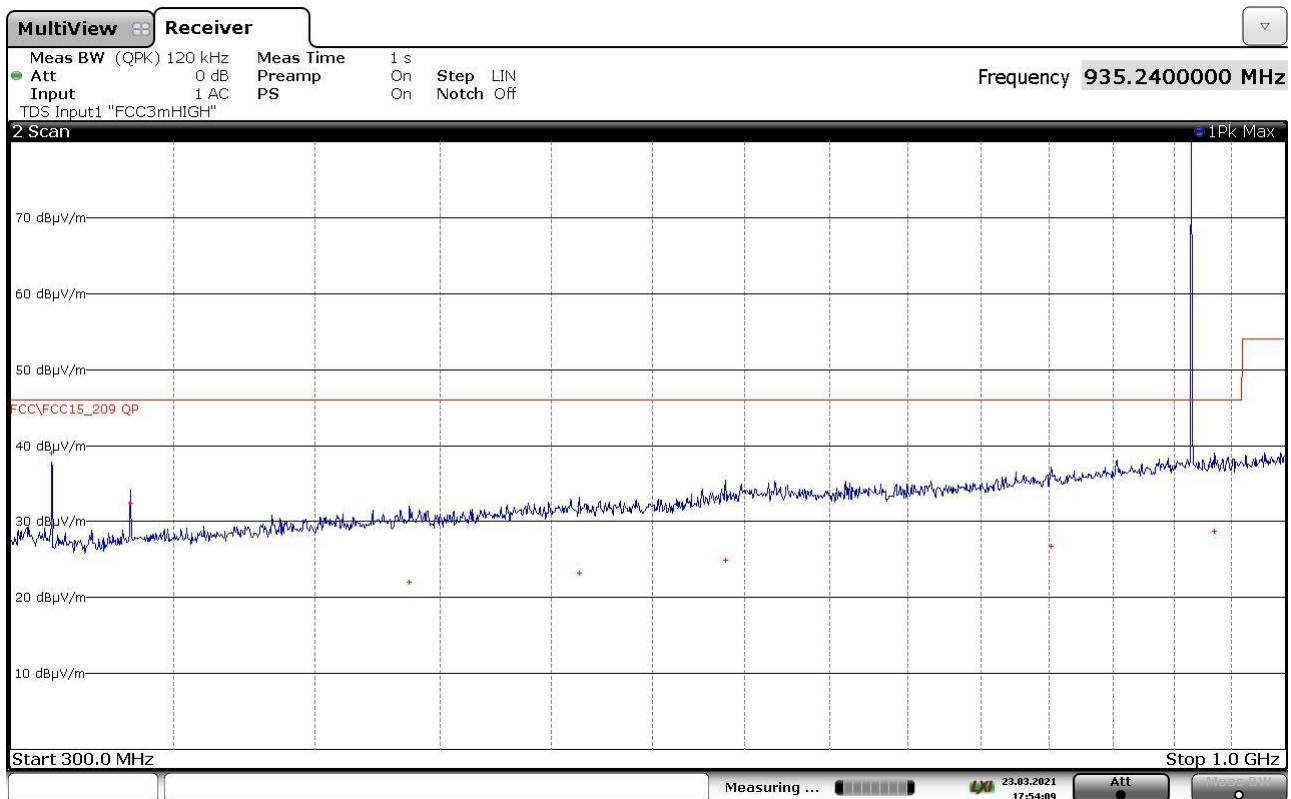
QUASI PEAK

Freq Hz	Lev dBuV/m	Margin dB
312000000	+38,90	-7,12
336000000	+32,44	-13,58
442240000	+22,22	-23,80
528040000	+25,75	-20,27
672000000	+32,87	-13,15
809440000	+27,07	-18,95
935600000	+28,81	-17,21

21057229_2



Segalla 21057230



FINAL RESULT TABLE

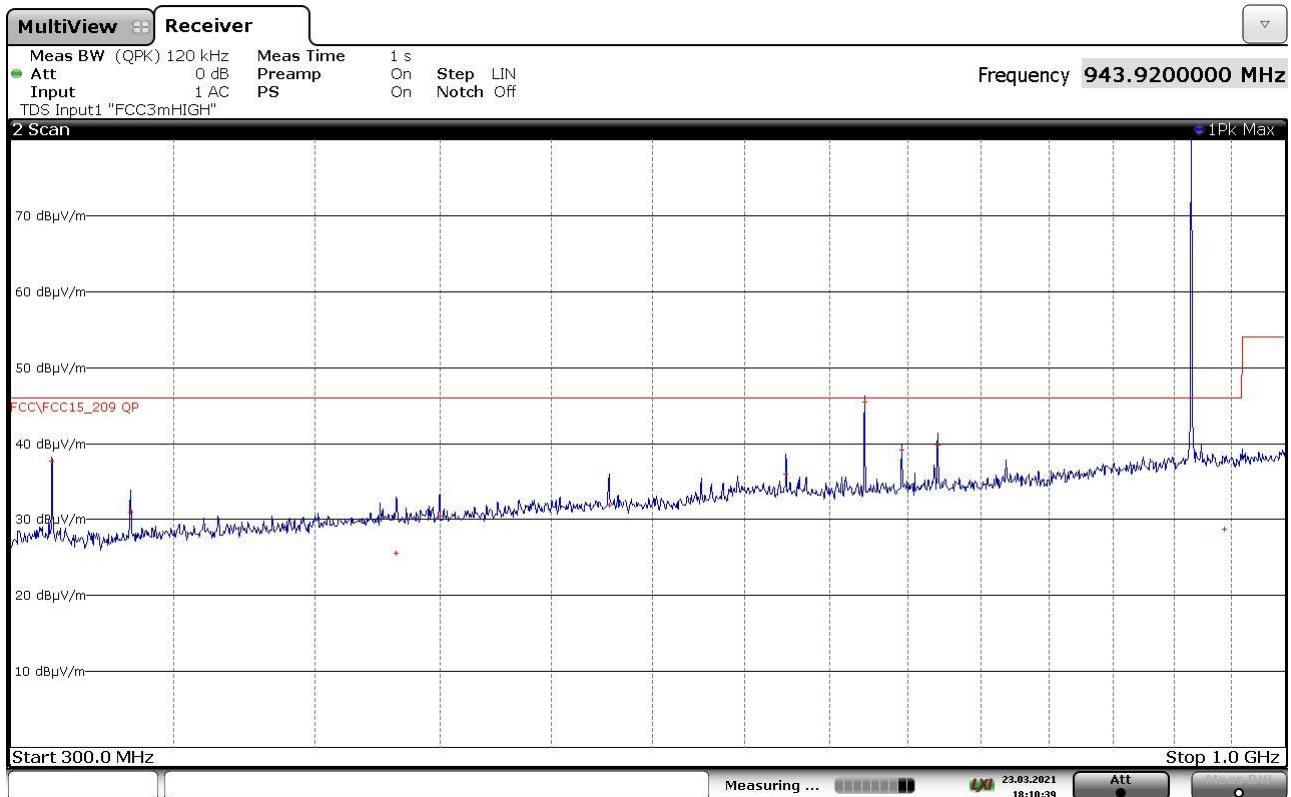
QUASI PEAK

Freq Hz	Lev dBuV/m	Margin dB
312000000	+39,01	-7,01
336000000	+32,45	-13,57
437200000	+21,96	-24,06
513280000	+23,14	-22,88
589200000	+24,87	-21,15
801720000	+26,78	-19,24
935240000	+28,67	-17,35

21057230_2



Segalla 21057231



FINAL RESULT TABLE

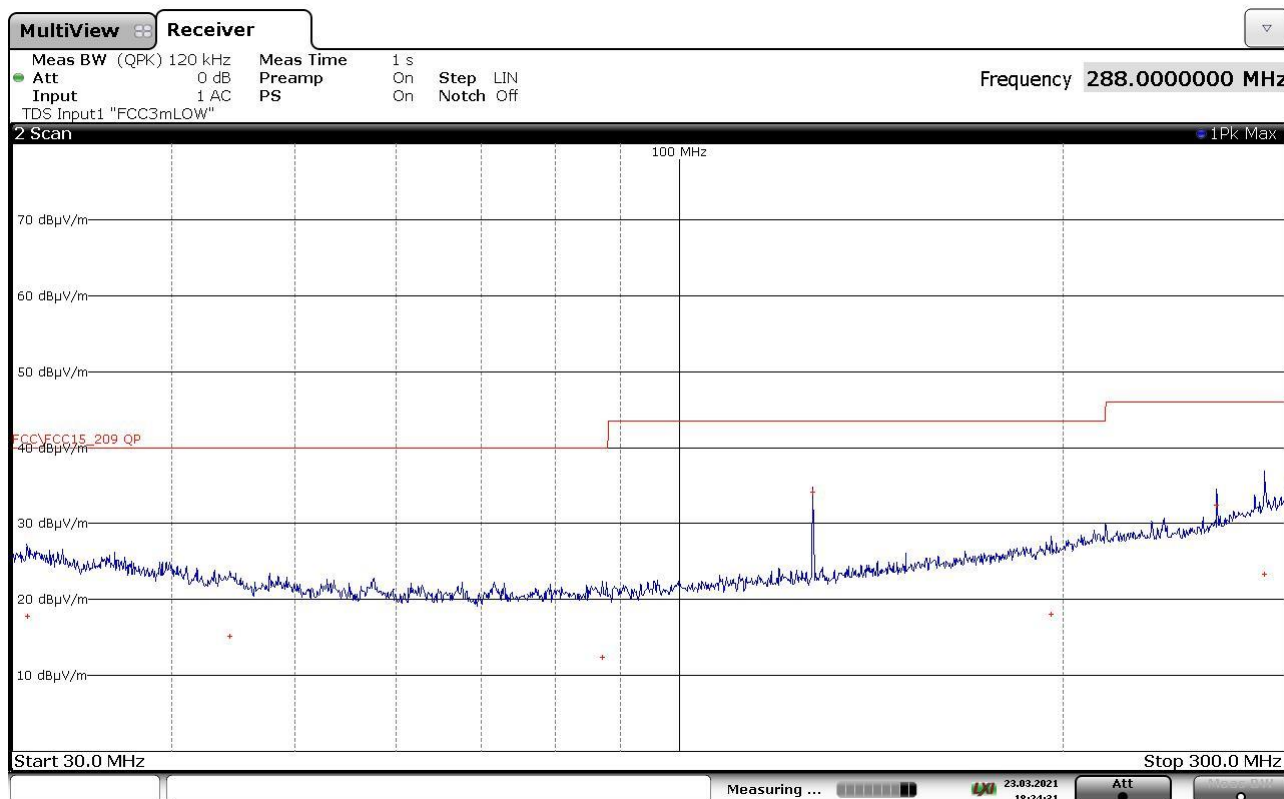
QUASI PEAK

Freq Hz	Lev dBuV/m	Margin dB
312000000	+37,66	-8,36
336000000	+30,92	-15,10
431960000	+25,62	-20,40
449920000	+30,44	-15,58
528000000	+31,89	-14,13
624000000	+36,04	-9,98
672000000	+45,43	-0,59
696000000	+39,19	-6,83
720000000	+39,84	-6,18
943920000	+28,79	-17,23

21057231_2



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FINAL RESULT TABLE

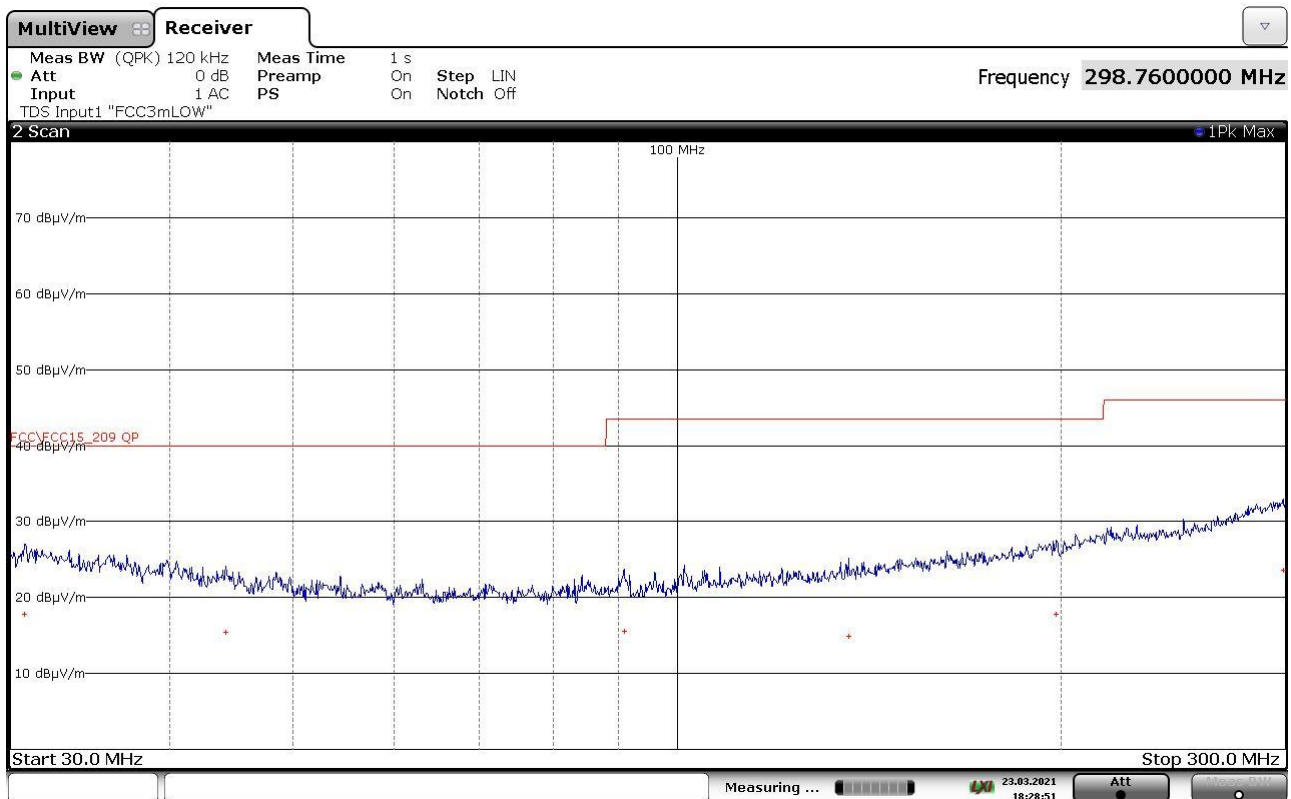
QUASI PEAK

Freq Hz	Lev dBuV/m	Margin dB
30800000	+17,79	-22,21
44440000	+15,22	-24,78
87080000	+12,36	-27,64
127280000	+34,16	-9,36
195840000	+18,00	-25,52
264000000	+32,45	-13,57
288000000	+23,36	-22,66

21057232_2



Segalla 21057233



FINAL RESULT TABLE

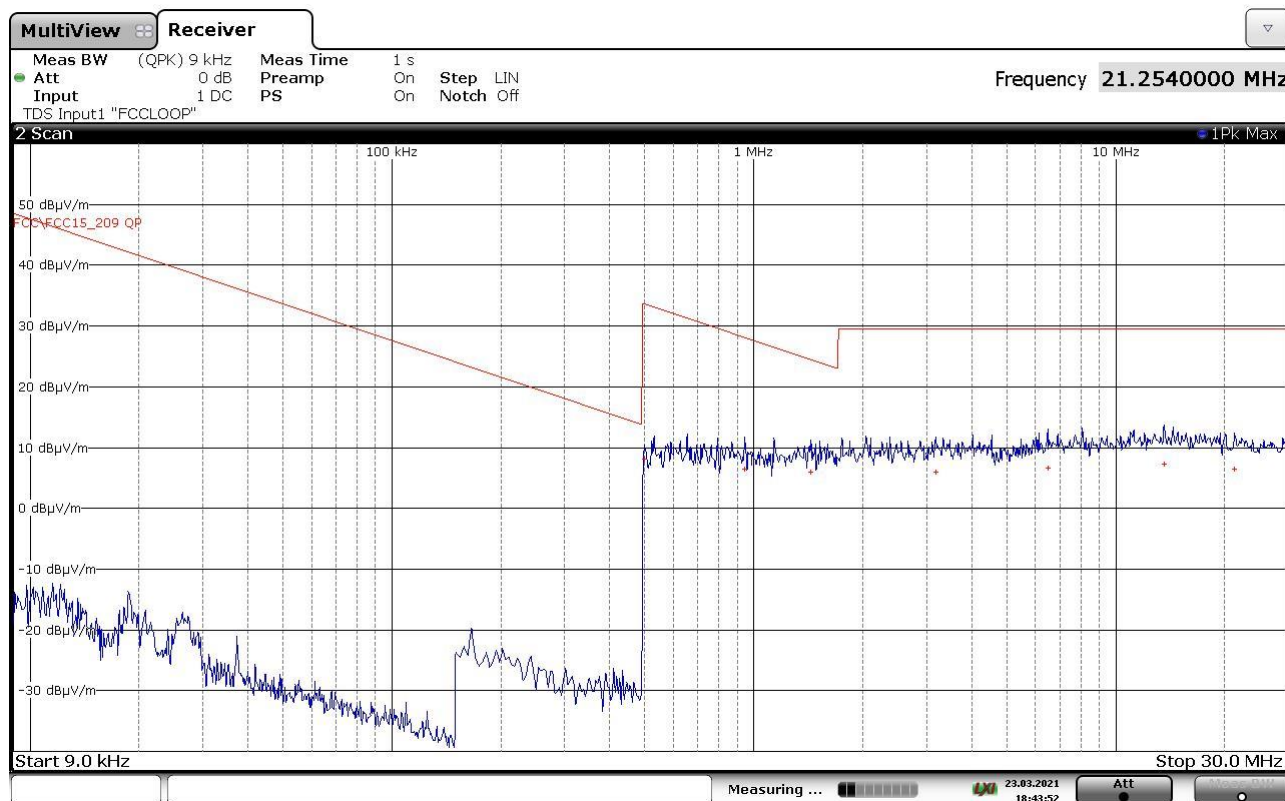
QUASI PEAK

Freq Hz	Lev dBuV/m	Margin dB
30760000	+17,85	-22,15
44240000	+15,38	-24,62
90840000	+15,52	-28,00
136360000	+14,91	-28,61
198400000	+17,77	-25,75
298760000	+23,63	-22,39

21057233_2



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FINAL RESULT TABLE

QUASI PEAK

Freq Hz	Lev dBuV/m	Margin dB
498000	+8,18	-25,48
942000	+6,39	-21,73
1438000	+5,98	-18,47
3178000	+5,94	-23,60
6494000	+6,64	-22,90
13578000	+7,33	-22,21
21254000	+6,53	-23,01

21057234_2

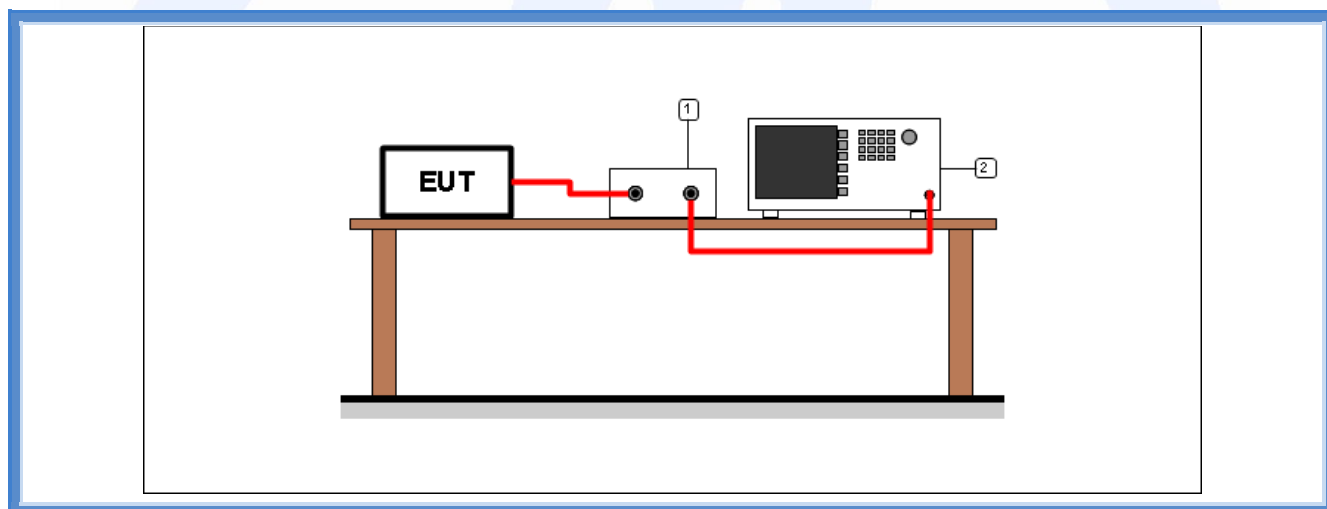


9.3 20 dB bandwidth

Tested by	M. Segalla
Test date	11.03.2021
Test location (stand)	Laboratory
Reference standards	FCC Rules and Regulation; Titles 47 Part. 15.247 ANSI C63.10 cl. 7.8.7
Supplementary test set-up description	--
Supplementary information.....	--

Acceptance limits

The maximum allowed 20 dB bandwidth of the hopping channel is 500 kHz



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)	Maximum 20 dB bandwidth allowed (kHz)	Results
915,075	G21057401	23,38	500	Complies
921,425	G21057405	23,38	500	Complies
927,825	G21057408	23,48	500	Complies



Graphs

Segalla 21057201



Segalla 21057205





Segalla 21057208





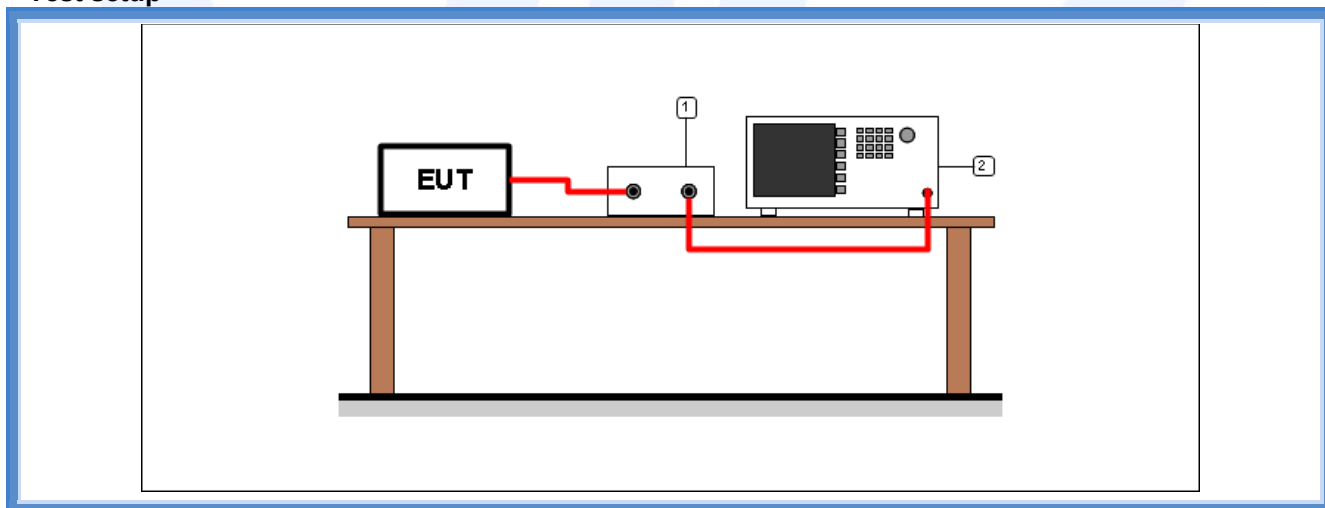
9.4 Channel separation

Tested by	M. Segalla
Test date	11.03.2021
Test location (stand)	Laboratory
Reference standards	FCC Rules and Regulation; Titles 47 Part. 15.247 KDB 558074 D01 15.247 Meas Guidance v05r02 cl. 9 b) ANSI C63.10 cl. 7.8.2
Supplementary test set-up description	--
Supplementary information.....	--

Acceptance limits

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400–2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals

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 band (MHz)	Graphs	Channel separation (kHz)	Minimum channel separation required (kHz)	Results
902 – 928	G21057415	200,2	25	Complies

