

Annex 1: Measurement diagrams to TEST REPORT No.: 17-1-0105501T04a-C1

According to:
FCC Regulations
Part 22, Part 24, Part 27

ISED-Regulations
RSS-132 Issue 3, RSS-133 Issue 6,
RSS-139 Issue 2, RSS-Gen Issue 4
RSS-130 Issue 1

for

Daimler Trucks North America

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1. Measurement diagrams LTE-mode

1.1. Power conducted

1.1.1. Power conducted LTE-Band 2

LTE-Band 2				QPSK-Modulation			16-QAM-Modulation			max. modulation QPSK	max. modulation 16QAM	max. bandwidth	absolute max. value channel bandwidth				
channel bandwidth	ARFCN ch. no.	ARFCN- Frequency [MHz]	Resource block allocation	Peak detector [dBm]	RMS detector [dBm]	PAR Factor [dB]	Peak detector [dBm]	RMS detector [dBm]	PAR Factor [dB]								
1.4 MHz	18607	1850,7	1 RB low	26,951	21,4049	5,5463	26,4464	20,5594	6,887	21405	20,599	22,0912					
			1 RB high	26,948	21,3479	5,6	26,3421	20,465	6,8771								
			50% RB mid	26,876	21,3554	5,5204	26,8752	20,4369	6,4383								
			100% RB	26,562	20,3519	6,21	26,7958	19,4217	7,3741								
	18900	1880	1 RB low	27,081	21,0383	6,0429	26,4464	20,5594	6,887	21226	20,599			22,0912			
			1 RB high	27,051	21,2259	5,8249	25,4955	20,232	5,2635								
			50% RB mid	26,976	21,1337	5,8422	26,9068	20,2057	6,7011								
			100% RB	26,693	20,0855	6,607	26,2919	19,1619	7,13								
	19193	1909,3	1 RB low	27,429	21,9481	5,481	26,488	21,0814	5,4066	22091	21,222					22,0912	
			1 RB high	27,279	22,0912	5,1879	26,4106	21,2161	5,1945								
			50% RB mid	27,246	21,9855	5,2607	27,3167	21,2218	6,0949								
			100% RB	27,368	20,9676	6,4005	26,7085	20,0147	6,6938								
3 MHz	18615	1851,5	1 RB low	26,617	21,3979	5,2186	25,5314	20,4411	5,0903	21398	20,441	22,1033					
			1 RB high	26,605	21,1839	5,421	25,3484	20,176	5,1724								
			50% RB mid	26,212	20,2266	5,9855	26,6057	20,3672	6,2385								
			100% RB	26,303	20,2753	6,0274	26,8743	19,3141	7,6602								
	18900	1880	1 RB low	26,339	20,7658	5,5733	25,3796	19,8688	5,5108	21211	20,376			22,1033			
			1 RB high	26,58	21,2106	5,3691	25,7039	20,3756	5,3283								
			50% RB mid	26,731	20,1789	6,5525	27,2138	20,1686	7,0452								
			100% RB	26,385	20,1011	6,2842	26,259	19,21	7,049								
	19185	1908,5	1 RB low	26,777	21,5272	5,2493	27,3363	21,2813	6,036	22110	21,699					22,1033	
			1 RB high	26,804	22,1133	4,6903	27,1379	21,6988	5,4391								
			50% RB mid	27,317	20,9498	6,367	26,8754	21,0176	5,8578								
			100% RB	26,788	20,9203	5,8681	26,8058	19,9291	6,8767								
5 MHz	18625	1852,5	1 RB low	26,71	21,5388	5,1712	26,5182	20,7604	5,7578	2154	20,76	22,1033					
			1 RB high	26,477	21,0291	5,4479	26,1986	20,2762	5,9224								
			50% RB mid	27,122	20,1814	6,9409	26,6248	20,2924	6,3324								
			100% RB	26,806	20,2071	6,5985	27,4834	19,2248	8,2586								
	18900	1880	1 RB low	26,612	21,0026	5,6095	26,644	20,0528	5,5912	21367	20,337			22,1033			
			1 RB high	26,953	21,3673	5,5859	26,8579	20,3369	6,521								
			50% RB mid	27,194	20,1641	7,0301	27,0917	20,2809	6,8108								
			100% RB	26,435	20,1328	6,3026	27,1359	19,2007	7,9352								
	19175	1907,5	1 RB low	27,223	21,0874	6,136	26,276	20,1454	6,1306	22123	21,166					22,1033	
			1 RB high	27,23	22,1228	5,107	26,7329	21,1664	5,5665								
			50% RB mid	27,369	20,763	6,6063	27,3109	20,7512	6,5997								
			100% RB	27,325	20,7529	6,5722	27,3242	19,6265	7,6977								
10 MHz	18650	1855	1 RB low	26,729	21,4882	5,2407	25,6499	20,5687	5,0812	2149	20,57	22,2207					
			1 RB high	26,201	20,4087	5,7921	24,7399	19,4626	5,2773								
			50% RB mid	26,215	19,8642	6,3508	26,7685	18,8616	7,9089								
			100% RB	26,247	19,8822	6,3649	26,325	18,9234	7,4016								
	18900	1880	1 RB low	26,656	21,2246	5,4313	25,9412	20,5443	5,3969	21506	20,733			22,2207			
			1 RB high	26,654	21,5062	5,1478	26,0098	20,7327	5,2771								
			50% RB mid	26,785	20,1848	6,6	26,6576	19,2725	7,3851								
			100% RB	26,873	20,2877	6,5855	27,1984	19,2479	7,8505								
	19150	1905	1 RB low	25,934	20,4754	5,4589	26,6953	20,1337	6,5616	22107	21,174					22,2207	
			1 RB high	26,965	22,0708	4,8937	27,1935	21,7402	5,4533								
			50% RB mid	26,863	20,1681	6,695	26,4913	19,0386	7,4527								
			100% RB	26,915	20,2297	6,6857	27,2288	19,1435	8,0853								
15 MHz	18675	1857,5	1 RB low	26,547	21,4677	5,0789	25,6939	20,5772	5,1167	21468	20,577	22,0077					
			1 RB high	25,532	20,0241	5,5079	24,417	19,0968	5,3202								
			50% RB mid	26,78	19,5936	7,1859	27,0312	19,373	7,6582								
			100% RB	26,875	19,6827	7,1927	26,2991	18,726	7,5731								
	18900	1880	1 RB low	26,274	20,8592	5,4148	25,8809	20,5847	5,2962	21177	20,718			22,0077			
			1 RB high	26,403	21,1773	5,2253	25,8875	20,7184	5,1911								
			50% RB mid	27,168	20,1771	6,9908	27,3899	20,1982	7,1917								
			100% RB	27,442	20,3147	7,1274	26,7281	19,2413	7,4868								
	19125	1902,5	1 RB low	26,193	20,835	5,3576	26,7903	20,5003	6,29	22008	21,769					22,0077	
			1 RB high	26,944	22,0077	4,9362	27,1852	21,7692	5,416								
			50% RB mid	27,052	19,766	7,2859	26,8712	19,6254	7,2458								
			100% RB	27,551	20,0607	7,49	26,5292	18,934	7,9582								
20 MHz	18700	1860	1 RB low	26,841	21,5881	5,2527	27,044	20,8983	6,1457	2159	20,898	22,22					
			1 RB high	26,11	20,2887	5,8208	26,5255	19,6184	6,9071								
			50% RB mid	26,325	19,4404	6,885	26,6161	19,2278	7,3883								
			100% RB	26,277	19,6241	6,6533	26,6802	18,6353	8,0449								
	18900	1880	1 RB low	26,315	20,5771	5,7381	26,1265	20,0869	6,0396	20624	20,197			22,22			
			1 RB high	26,271	20,6243	5,6463	26,0277	20,0813	5,9464								
			50% RB mid	26,848	20,2828	6,5653	27,1417	20,1969	6,9448								
			100% RB	26,873	20,2113	6,6614	26,8565	19,1834	7,6731								
	19100	1900	1 RB low	26,316	20,6699	5,6458	26,0826	19,9609	6,1217	22221	21,484					22,22	
			1 RB high	27,177	22,2207	4,9561	27,0237	21,4838	5,5399								
			50% RB mid	26,807	19,7672	7,0393	26,4178	19,4853	6,9325								
			100% RB	27,013	19,9018	7,1108	27,5244	18,7545	8,7699								

1.1.2. Power conducted LTE-Band 4

LTE-Band 4				QPSK-Modulation			16-QAM-Modulation			max. modulation QPSK	max. modulation 16-QAM	max. channel	absolute max. value
channel bandwidth	ARFCN ch. no.	ARFCN-Frequency [MHz]	Resource block allocation	Peak detector [dBm]	RMS detector [dBm]	PAR Faktor [dB]	Peak detector [dBm]	RMS detector [dBm]	PAR Faktor [dB]				
14 MHz	19957	1710,7	1RB low	27,045	21,4539	5,5909	26,3712	20,4334	5,9378	21504	20,56	216737	
			1RB high	26,962	21,5035	5,4587	26,4014	20,5603	5,8411				
			50%RB mid	27,009	21,4343	5,575	26,9931	20,5068	6,4863				
			100%RB	26,971	20,4002	6,5704	26,7565	19,4282	7,3283				
	20175	1732,5	1RB low	27,233	21,6737	5,5692	26,6266	20,7232	5,9034	21674	20,758	216737	
			1RB high	27,031	21,6178	5,4133	26,5248	20,7578	5,767				
			50%RB mid	27,177	21,6544	5,5228	27,1968	20,752	6,4448				
			100%RB	26,877	20,629	6,2478	26,9473	19,683	7,2643				
	20393	1754,3	1RB low	26,465	20,7939	5,6708	25,8556	19,9193	5,9363	20,856	19,963	216737	
			1RB high	26,533	20,856	5,6774	25,8638	19,9458	5,918				
			50%RB mid	26,497	20,7566	5,7399	26,5241	19,963	6,5611				
			100%RB	26,395	19,8545	6,5408	25,7696	18,6784	7,0912				
3 MHz	19965	1711,5	1RB low	26,524	21,3984	5,1259	27,0072	21,076	5,9312	21444	21,124	216312	
			1RB high	26,45	21,4444	5,0054	26,9362	21,1238	5,8124				
			50%RB mid	27,091	20,4476	6,6435	26,4668	20,5865	5,8803				
			100%RB	26,724	20,4428	6,2813	26,5978	19,4978	7,1				
	20175	1732,5	1RB low	26,632	21,5527	5,0795	27,1727	21,2275	5,9452	21631	21,305	216312	
			1RB high	26,637	21,6312	5,0053	27,1478	21,3053	5,8425				
			50%RB mid	27,305	20,6714	6,6337	26,6935	20,8043	5,8892				
			100%RB	27,289	20,6366	6,652	27,0681	19,718	7,3501				
	20385	1753,5	1RB low	25,83	20,6732	5,1671	26,4093	20,4419	5,9674	20,796	20,562	216312	
			1RB high	25,972	20,7963	5,1783	26,5739	20,5621	6,018				
			50%RB mid	26,608	19,88	6,7282	25,8765	19,9382	5,9383				
			100%RB	26,382	19,8151	6,5668	25,4002	18,7128	6,6874				
5 MHz	19975	1712,5	1RB low	27,282	21,4913	5,7902	26,3688	20,5056	5,8632	21491	20,514	218185	
			1RB high	27,086	21,4891	5,5966	26,213	20,5144	5,6986				
			50%RB mid	26,915	20,4626	6,4524	26,9016	20,4922	6,4094				
			100%RB	26,916	20,4692	6,4469	26,5568	19,504	7,0528				
	20175	1732,5	1RB low	27,41	21,6049	5,805	26,4932	20,6265	5,8667	21819	20,828	218185	
			1RB high	27,552	21,8185	5,7334	26,5816	20,8279	5,7537				
			50%RB mid	27,316	20,6797	6,636	27,119	20,7225	6,3965				
			100%RB	27,151	20,6734	6,4772	27,2683	19,7142	7,5541				
	20375	1752,5	1RB low	26,623	20,831	5,7919	25,7402	19,9406	5,7996	20,887	19,983	218185	
			1RB high	26,863	20,8874	5,9755	25,7856	19,9832	5,8024				
			50%RB mid	26,785	19,849	6,9359	26,3894	19,874	6,5154				
			100%RB	26,331	19,8345	6,4968	26,2775	18,7052	7,5723				
10 MHz	20000	1715	1RB low	26,583	21,4951	5,0874	27,0688	21,1453	5,9235	21495	21,145	22,218	
			1RB high	26,373	21,2707	5,1025	26,8247	20,939	5,8857				
			50%RB mid	26,851	20,4665	6,3847	26,5324	19,5562	6,9762				
			100%RB	26,893	20,449	6,4438	27,1034	19,4547	7,6487				
	20175	1732,5	1RB low	26,808	21,3578	5,4502	27,0689	21,0125	6,0564	22,04	21,644	22,04	
			1RB high	27,226	22,0354	5,1909	27,4559	21,6435	5,8124				
			50%RB mid	27,051	20,7063	6,3445	26,8112	19,7911	7,0201				
			100%RB	27,081	20,7171	6,3636	27,5415	19,7289	7,8126				
	20350	1750	1RB low	26,25	21,3142	4,9354	26,6558	20,9828	5,673	21,31	20,983	218185	
			1RB high	26,098	20,8641	5,2343	26,667	20,599	6,068				
			50%RB mid	26,365	19,93	6,4343	25,8964	18,8689	7,0275				
			100%RB	26,505	20,0461	6,4589	26,5846	18,8912	7,6934				
15 MHz	20025	1717,5	1RB low	26,588	21,4792	5,1086	27,0955	21,1903	5,9052	21479	21,19	219609	
			1RB high	26,352	21,1858	5,1658	26,8798	20,8788	6,001				
			50%RB mid	26,927	20,3555	6,5711	26,8546	20,3463	6,5083				
			100%RB	27,424	20,3824	7,0415	26,8601	19,4243	7,4358				
	20175	1732,5	1RB low	26,494	21,3104	5,1836	25,6418	20,441	5,2008	21961	21,619	219609	
			1RB high	26,895	21,9609	4,9343	27,3355	21,6191	5,764				
			50%RB mid	27,374	20,7185	6,6593	27,2721	20,7436	6,5285				
			100%RB	27,623	20,7053	6,9174	27,2389	19,7646	7,4743				
	20325	1747,5	1RB low	26,635	21,7151	4,9203	27,1134	21,4359	5,6775	21715	21,436	219609	
			1RB high	26,062	20,8074	5,2545	25,2268	20,0139	5,2129				
			50%RB mid	26,654	20,2346	6,4193	26,5687	20,2068	6,3619				
			100%RB	27,219	20,279	6,9398	26,4068	19,1067	7,3001				
20 MHz	20050	1720	1RB low	26,931	21,7496	5,1814	26,8349	21,0201	5,8148	21,75	21,02	22,2175	
			1RB high	27,069	21,6991	5,3703	26,8964	20,9726	5,9238				
			50%RB mid	26,755	20,3275	6,4278	26,6933	20,3105	6,3828				
			100%RB	26,974	20,425	6,5492	27,4553	19,4508	8,0045				
	20175	1732,5	1RB low	26,688	21,4371	5,251	26,5627	20,7244	5,8383	21933	21,984	22,2175	
			1RB high	26,992	21,9329	5,0991	26,8277	21,207	5,6207				
			50%RB mid	27,283	20,772	6,5105	27,1446	20,7643	6,3803				
			100%RB	27,257	20,7327	6,5241	25,2052	21,9841	3,2211				
	20300	1745	1RB low	27,293	22,2175	5,0796	27,1594	21,5225	5,6369	22,218	21,523	22,2175	
			1RB high	26,447	21,0117	5,4353	26,2831	20,2941	5,989				
			50%RB mid	26,729	20,5595	6,1698	26,7695	20,4601	6,3094				
			100%RB	26,898	20,4943	6,4033	27,3418	19,4869	7,8549				

1.1.3. Power conducted LTE-Band 5

LTE-Band 5				QPSK-Modulation			16-QAM-Modulation			max. modulation QPSK	max. modulation 16-QAM	max. channel	absolute max. value
channel bandwidth	ARFCN ch. no.	ARFCN-Frequency [MHz]	Resource block allocation	Peak detector [dBm]	RMS detector [dBm]	PAR Faktor [dB]	Peak detector [dBm]	RMS detector [dBm]	PAR Faktor [dB]				
14 MHz	20407	824.7	1RB low	27,338	21,6406	5,6975	26,2249	20,8048	5,4201	21,88	20,92	21,88	
			1RB high	27,279	21,8805	5,3983	26,7237	20,9211	5,8026				
			50%RB mid	27,295	21,7124	5,5824	27,2901	20,8365	6,4536				
			100%RB	27,229	20,6629	6,5662	26,9533	19,6523	7,301				
	20525	836.5	1RB low	27,15	21,1697	5,9798	26,4225	20,2026	6,2199	21,17	20,21		
			1RB high	27,206	21,1701	6,0361	26,4194	20,21	6,2094				
			50%RB mid	27,12	21,0656	6,0498	27,1179	20,201	6,9169				
			100%RB	26,581	20,081	6,5	26,5774	19,0747	7,5027				
	20643	848.3	1RB low	26,369	21,8736	4,4956	26,0225	20,9485	5,074	21,87	20,95		
			1RB high	26,282	21,7141	4,5678	25,9433	20,8478	5,0955				
			50%RB mid	26,333	21,7375	4,5955	26,2926	20,9064	5,3862				
			100%RB	26,513	20,7948	5,7186	26,3767	19,8417	6,535				
3 MHz	20415	825.5	1RB low	26,733	21,4895	5,2439	27,369	21,2341	6,1349	22,11	21,81	22,24	
			1RB high	26,773	22,1051	4,668	27,1669	21,8095	5,3574				
			50%RB mid	27,325	20,9291	6,3957	26,7128	21,0584	5,6544				
			100%RB	27,359	20,8772	6,4819	26,9998	19,881	7,188				
	20525	836.5	1RB low	26,479	21,158	5,3212	27,0685	20,8627	6,2058	21,16	20,86		
			1RB high	26,57	21,1092	5,4606	27,4139	20,8362	6,5777				
			50%RB mid	27,306	20,093	7,2125	26,4626	20,229	6,2336				
			100%RB	26,628	20,1136	6,5146	26,7217	19,0853	7,6364				
	20635	847.5	1RB low	26,315	21,9303	4,3847	26,74	21,5848	5,1552	21,93	21,58		
			1RB high	26,007	21,7285	4,2782	26,3487	21,3377	5,011				
			50%RB mid	26,433	20,9362	5,4972	26,0578	20,9919	5,0659				
			100%RB	26,614	20,9547	5,6597	26,2476	19,9947	6,2529				
5 MHz	20425	826.5	1RB low	27,7	21,6996	6,0007	26,6709	20,7133	5,9576	22,24	21,27	22,24	
			1RB high	27,063	22,2385	4,8248	26,4901	21,2713	5,2188				
			50%RB mid	27,387	21,0963	6,2907	26,9832	21,2051	5,7781				
			100%RB	27,136	21,1031	6,0328	27,4316	20,0519	7,3797				
	20525	836.5	1RB low	27,138	21,3532	5,7849	26,3066	20,3884	5,9182	21,35	20,39		
			1RB high	27,794	21,14	6,6541	26,3047	20,1718	6,1329				
			50%RB mid	27,392	20,1274	7,2646	27,2538	20,168	7,0858				
			100%RB	26,846	20,1309	6,7151	27,0296	19,1245	7,9051				
	20625	846.5	1RB low	27,389	21,8452	5,544	26,5132	20,8959	5,6173	21,85	21,09		
			1RB high	26,522	21,7502	4,7713	25,9131	20,809	5,1041				
			50%RB mid	26,881	21,0302	5,8504	26,6123	21,0886	5,5237				
			100%RB	26,971	21,0241	5,947	26,5859	19,9773	6,6086				
10 MHz	20450	829	1RB low	26,843	21,7001	5,143	27,4407	21,365	6,0757	21,70	21,37	21,85	
			1RB high	26,512	21,5388	4,9727	26,8928	21,2116	5,6812				
			50%RB mid	26,707	21,1757	5,5317	26,5704	20,2538	6,3166				
			100%RB	27,194	21,0607	6,1332	27,5001	20,0339	7,4662				
	20525	836.5	1RB low	26,402	21,7693	4,6328	26,7598	21,3964	5,3634	21,77	21,40		
			1RB high	26,839	21,3199	5,5188	27,7285	21,0375	6,691				
			50%RB mid	26,994	20,1484	6,8452	26,6523	19,2082	7,4441				
			100%RB	27,122	20,3073	6,8151	26,4641	19,237	7,2271				
	20600	844	1RB low	26,71	21,2089	5,5008	27,635	20,9156	6,7194	21,85	21,45		
			1RB high	26,246	21,8492	4,3964	26,4358	21,4532	4,9826				
			50%RB mid	26,988	20,9125	6,0757	26,795	19,8854	6,9096				
			100%RB	27,026	20,825	6,2011	27,4849	19,7934	7,6915				

1.1.4. Power conducted LTE-Band 7

LTE-Band 7				QPSK-Modulation			16-QAM-Modulation			max. modulation QPSK	max. modulation 16-Q	max. channel	absolute max. value
channel bandwidth	ARFCN ch. no.	ARFCN-Frequency [MHz]	Resource block allocation	Peak detektor [dBm]	RMS detektor [dBm]	PAR Faktor [dB]	Peak detektor [dBm]	RMS detektor [dBm]	PAR Faktor [dB]				
5 MHz	20775	2502,5	1RB low	25,31	19,1304	6,18	23,814	18,1916	5,6224	19,13	18,378	21,73	
			1RB high	25,136	19,1089	6,0272	23,9762	18,3783	5,5979				
			50%RB mid	25,163	18,1577	7,0052	24,965	18,2582	6,7068				
			100%RB	24,554	18,2072	6,3471	24,634	17,2534	7,3806				
	21100	2535	1RB low	24,89	20,5637	4,3267	24,4315	19,6922	4,7393	20,564	19,692		
			1RB high	25,007	20,1024	4,9044	24,4209	19,1796	5,2413				
			50%RB mid	25,141	19,3885	5,7521	24,683	19,5027	5,1803				
			100%RB	25,114	19,3859	5,7282	25,3437	18,6039	6,7398				
	21425	2567,5	1RB low	26,417	21,6235	4,7931	25,8519	20,7767	5,0752	21,735	20,966		
			1RB high	26,22	21,7348	4,4853	25,7912	20,8986	4,8926				
			50%RB mid	26,647	20,8834	5,7636	26,2341	20,966	5,2681				
			100%RB	26,245	20,568	5,677	26,7405	20,1103	6,6302				
10 MHz	20800	2505	1RB low	24,169	19,0268	5,1426	24,8593	19,135	5,7243	19,504	19,362	21,81	
			1RB high	24,403	19,5035	4,8994	25,2336	19,362	5,8716				
			50%RB mid	24,715	18,2393	6,476	24,4424	17,4047	7,0377				
			100%RB	25,014	18,2913	6,7225	25,147	17,4056	7,7414				
	21000	2535	1RB low	24,565	20,7785	3,786	24,7328	20,4163	4,3165	20,779	20,416		
			1RB high	24,543	19,7083	4,8343	24,9225	19,4464	5,4761				
			50%RB mid	24,989	19,4483	5,541	24,6332	18,6779	5,9553				
			100%RB	25,359	19,4841	5,8745	25,5765	18,6893	6,8872				
	21400	2565	1RB low	25,528	20,609	4,9193	26,2116	20,4391	5,7725	21,671	21,381		
			1RB high	25,915	21,6712	4,244	26,1239	21,381	4,7429				
			50%RB mid	26,447	20,6189	5,828	26,1491	19,9041	6,245				
			100%RB	26,59	20,5269	6,0631	27,0062	19,7535	7,2527				
15 MHz	20825	2507,5	1RB low	24,297	19,0816	5,2158	24,9709	18,8252	6,1457	20,354	20,1	21,67	
			1RB high	25,097	20,3541	4,7427	25,5797	20,1002	5,4795				
			50%RB mid	25,031	18,5908	6,4402	25,5029	18,5569	6,946				
			100%RB	25,579	18,7206	6,8579	25,0403	17,7004	7,3399				
	21100	2535	1RB low	25,234	20,9506	4,283	25,5513	20,5561	4,9952	20,951	20,556		
			1RB high	24,628	20,717	3,911	24,7803	20,3223	4,458				
			50%RB mid	24,991	20,2635	4,7271	25,161	20,2654	4,8956				
			100%RB	26,092	20,1927	5,8988	25,6771	19,3914	6,2857				
	21375	2562,5	1RB low	25,058	20,0115	5,0464	25,6411	19,6902	5,9509	21,671	21,332		
			1RB high	25,876	21,6711	4,2046	26,117	21,332	4,785				
			50%RB mid	26,295	20,3303	5,9644	26,52	20,3479	6,1721				
			100%RB	25,856	20,568	5,288	26,405	19,2824	7,1226				
20 MHz	20850	2510	1RB low	24,528	19,3205	5,2075	24,3695	18,6488	5,7207	21,113	20,433	21,81	
			1RB high	25,393	21,1128	4,28	25,2404	20,4334	4,807				
			50%RB mid	25,442	18,9496	6,4919	25,6396	18,8759	6,7637				
			100%RB	25,401	19,0048	6,3961	26,2309	18,1703	8,0606				
	21100	2535	1RB low	25,514	20,9285	4,5857	25,292	20,2642	5,0278	20,929	20,306		
			1RB high	24,735	20,5542	4,1808	24,6088	19,8842	4,7246				
			50%RB mid	25,193	20,297	4,8962	25,1605	20,3057	4,8548				
			100%RB	25,824	20,1387	5,6852	26,2247	19,3446	6,8801				
	21300	2555	1RB low	25,046	19,4518	5,5946	24,8269	18,8482	5,9787	21,811	21,271		
			1RB high	26,114	21,8109	4,3028	26,0749	21,2708	4,8041				
			50%RB mid	26,128	19,8047	6,3236	26,4861	19,8539	6,6322				
			100%RB	26,197	19,9056	6,2918	26,8748	19,0159	7,8589				

1.1.5. Power conducted LTE-Band 17

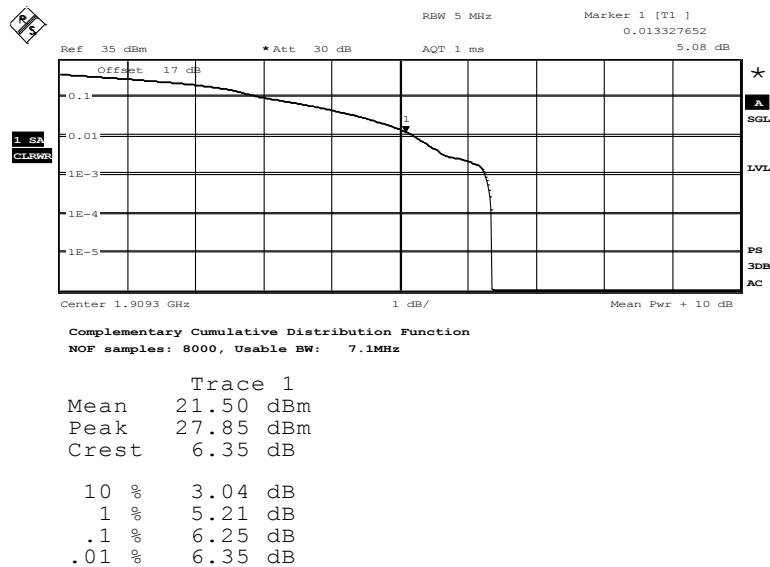
LTE-Band 17				QPSK-Modulation			16-QAM-Modulation			max. modulation	max. modulation	max. channel	absolute max. value
channel bandwidth	ARFCN ch. no.	ARFCN-Frequency [MHz]	Resource block allocation	Peak detektor [dBm]	RMS detektor [dBm]	PAR Faktor [dB]	Peak detektor [dBm]	RMS detektor [dBm]	PAR Faktor [dB]				
5 MHz	23755	706,5	1RB low	27,726	22,0732	5,6527	26,8844	21,0836	5,801	22,307	21,297	22,31	22,42
			1RB high	27,713	22,3069	5,4064	26,9551	21,2971	5,658				
			50%RB mid	27,7	21,2113	6,4886	27,3303	21,2884	6,042				
			100%RB	27,532	21,1813	6,3504	27,4538	20,1825	7,271				
	23790	710	1RB low	27,582	22,2551	5,327	26,851	21,2344	5,617	22,255	21,234		
			1RB high	28,148	21,5688	6,5789	26,6385	20,5685	6,07				
			50%RB mid	27,5	21,0195	6,4803	27,7442	21,0449	6,699				
			100%RB	27,354	20,9976	6,356	27,219	19,9816	7,237				
	23825	713,5	1RB low	28,209	21,8198	6,389	26,7921	20,7959	5,996	21,873	20,955		
			1RB high	27,952	21,873	6,079	26,9238	20,9546	5,969				
			50%RB mid	27,571	20,5736	6,9974	27,8513	20,5686	7,283				
			100%RB	27,218	20,6491	6,5684	27,2954	19,6095	7,686				
10 MHz	23780	709	1RB low	27,144	22,1262	5,0178	27,5746	21,6843	5,89	22,126	21,684	22,42	
			1RB high	27,209	21,7171	5,4915	28,0042	21,3114	6,693				
			50%RB mid	27,427	21,1515	6,2759	27,1619	20,1873	6,975				
			100%RB	27,49	21,0113	6,479	27,9039	20,0023	7,902				
	23790	710	1RB low	27,196	22,3767	4,8189	27,4728	21,9071	5,566	22,377	21,907		
			1RB high	27,192	21,7265	5,4655	28,0059	21,3309	6,675				
			50%RB mid	27,413	21,0098	6,4036	27,304	20,0655	7,239				
			100%RB	27,501	21,0083	6,4922	27,9559	19,9594	7,997				
	23800	711	1RB low	27,146	22,4247	4,7217	27,4247	21,9594	5,465	22,425	21,959		
			1RB high	27,631	21,9158	5,7151	27,977	21,6641	6,313				
			50%RB mid	27,555	20,8767	6,6787	27,2518	19,881	7,371				
			100%RB	27,188	20,974	6,2138	27,8926	19,9097	7,983				

1.2. PAPR-Value (CCDF plots)

1.2.1. LTE Band 2

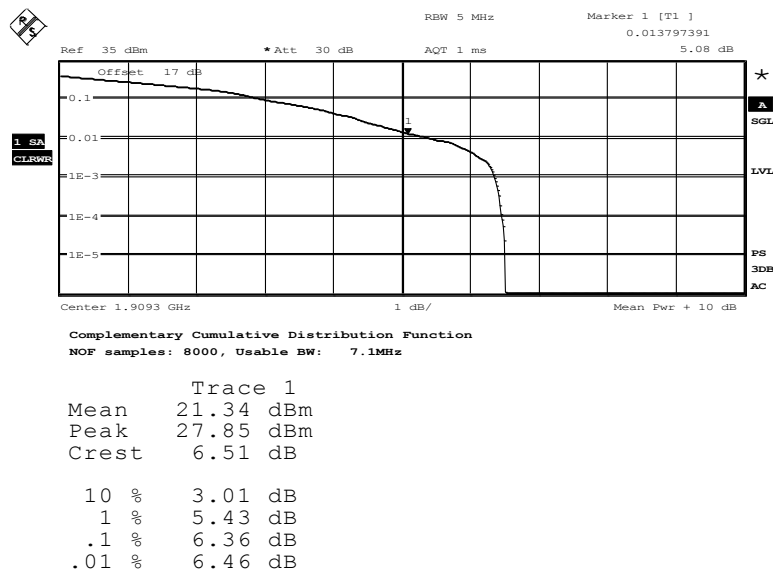
Worst-Case of each maximum Peak power value was tested with the CCDF method

1.2.1.1. 1.4MHz signal bandwidth



Date: 21.SEP.2017 12:44:17

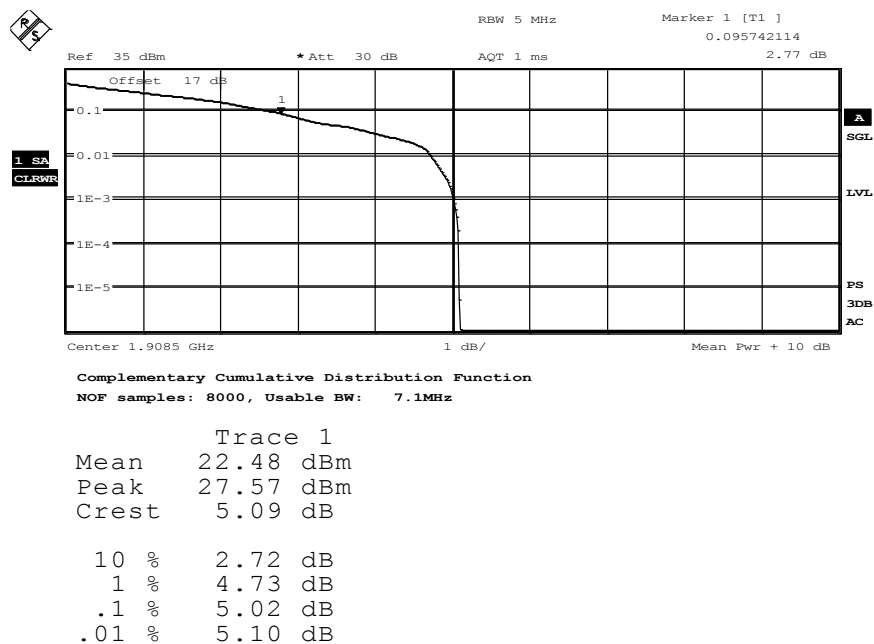
Diagram: QPSK 1.4 MHz CH19193, 1 RB high



Date: 21.SEP.2017 12:49:40

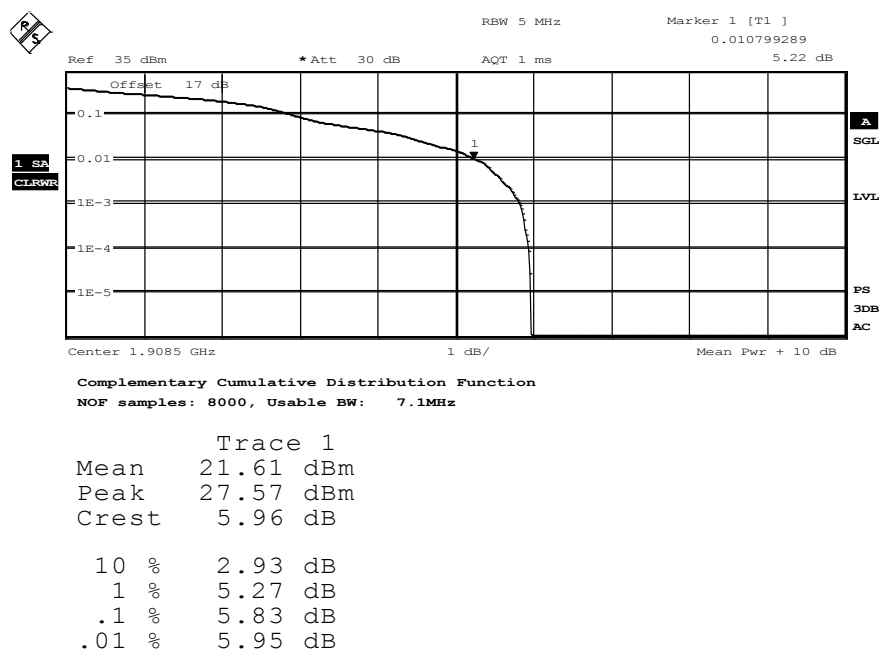
Diagram: 16 QAM 1.4 MHz CH19193, 50% RB

1.2.1.2. 3MHz signal bandwidth



Date: 21.SEP.2017 13:16:27

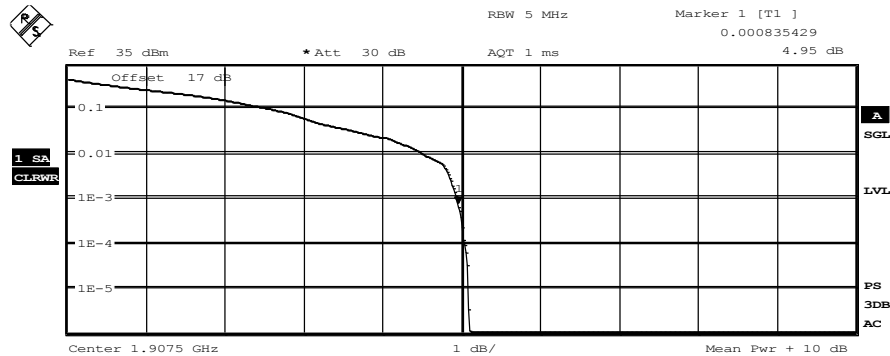
Diagram: QPSK 3 MHz CH19185, 1 RB high



Date: 21.SEP.2017 13:17:56

Diagram: 16 QAM 3 MHz CH19185, 1 RB high

1.2.1.3. 5MHz signal bandwidth



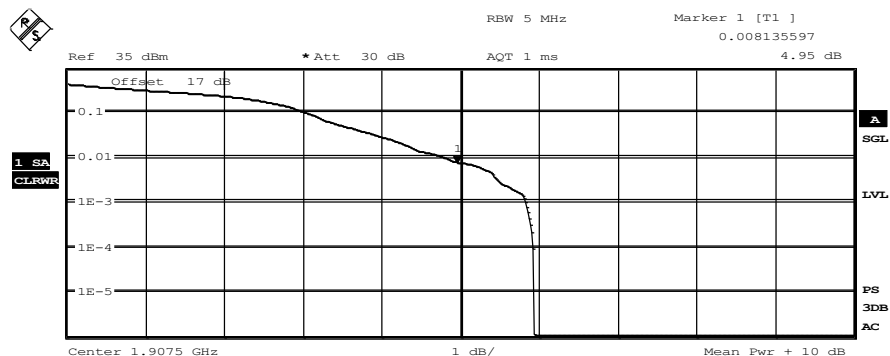
Complementary Cumulative Distribution Function
NOF samples: 8000, Usable BW: 7.1MHz

Trace 1
Mean 22.34 dBm
Peak 27.43 dBm
Crest 5.09 dB

10 % 2.60 dB
1 % 4.50 dB
.1 % 4.94 dB
.01 % 5.05 dB

Date: 21.SEP.2017 13:20:28

Diagram: QPSK 5 MHz CH19175, 1 RB high



Complementary Cumulative Distribution Function
NOF samples: 8000, Usable BW: 7.1MHz

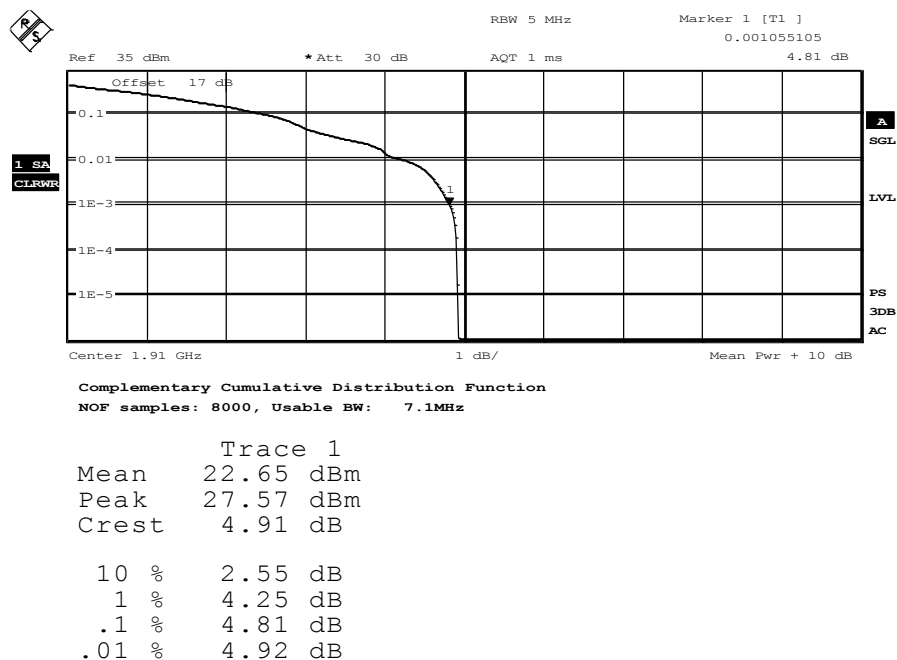
Trace 1
Mean 21.28 dBm
Peak 27.21 dBm
Crest 5.93 dB

10 % 3.06 dB
1 % 4.82 dB
.1 % 5.83 dB
.01 % 5.93 dB

Date: 21.SEP.2017 13:21:16

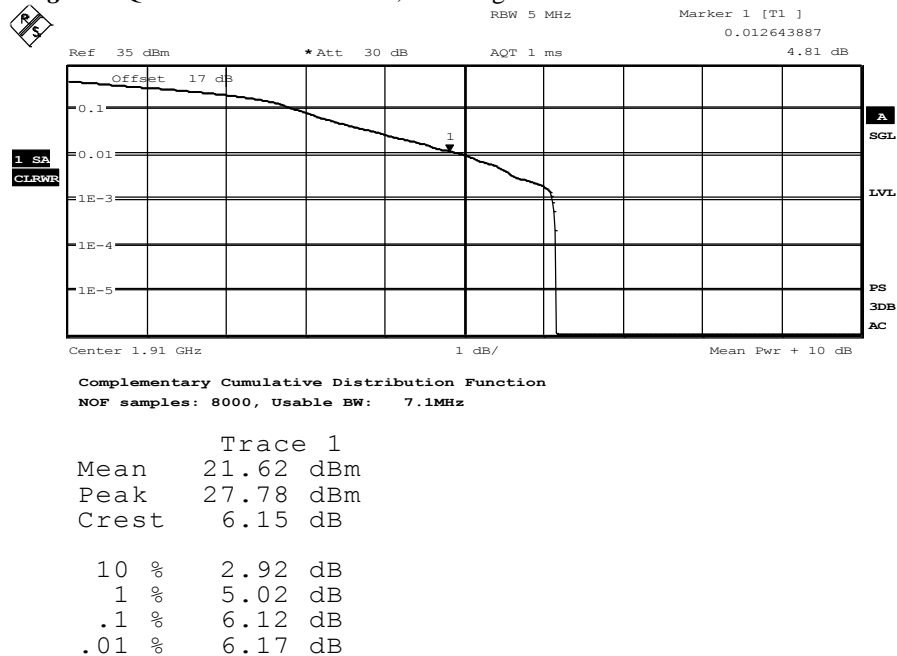
Diagram: 16 QAM 5 MHz CH19175, 1 RB high

1.2.1.4. 10MHz signal bandwidth



Date: 21.SEP.2017 13:34:38

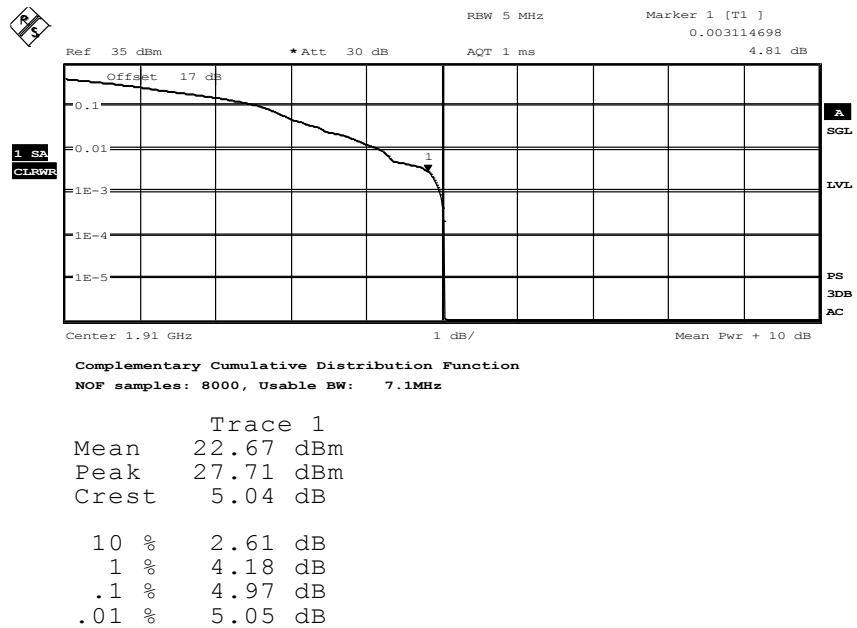
Diagram: QPSK 10 MHz CH19150, 1 RB high



Date: 21.SEP.2017 13:35:58

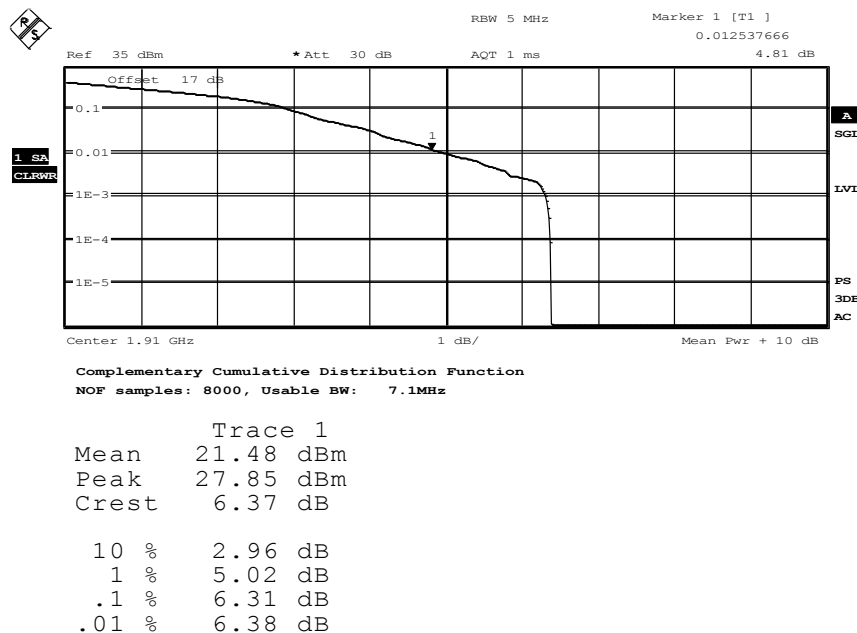
Diagram: 16 QAM 10 MHz CH19150, 1 RB high

1.2.1.5. 15MHz signal bandwidth



Date: 21.SEP.2017 13:38:11

Diagram: QPSK 15 MHz CH19125, 1 RB high



Date: 21.SEP.2017 13:39:02

Diagram: 16 QAM 15 MHz CH19125, 1 RB high

1.2.1.6. 20MHz signal bandwidth

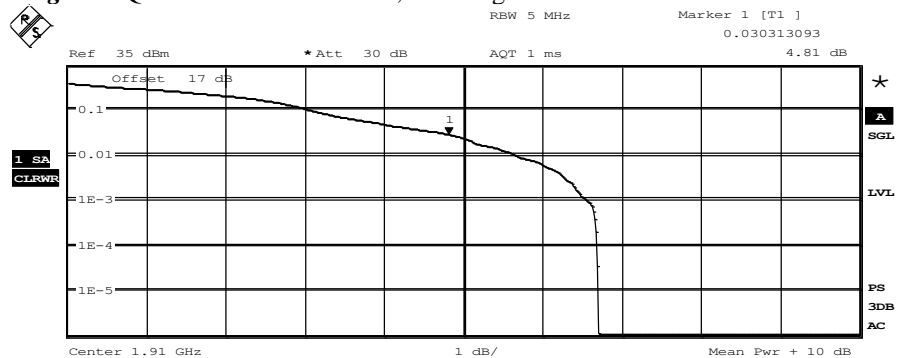


Complementary Cumulative Distribution Function
NOF samples: 8000, Usable BW: 7.1MHz

Trace 1	
Mean	20.99 dBm
Peak	25.87 dBm
Crest	4.88 dB
10 %	2.47 dB
1 %	4.23 dB
.1 %	4.76 dB
.01 %	4.87 dB

Date: 21.SEP.2017 13:40:38

Diagram: QPSK 20 MHz CH19100, 1 RB high



Complementary Cumulative Distribution Function
NOF samples: 8000, Usable BW: 7.1MHz

Trace 1	
Mean	19.96 dBm
Peak	26.65 dBm
Crest	6.69 dB
10 %	3.11 dB
1 %	5.67 dB
.1 %	6.55 dB
.01 %	6.70 dB

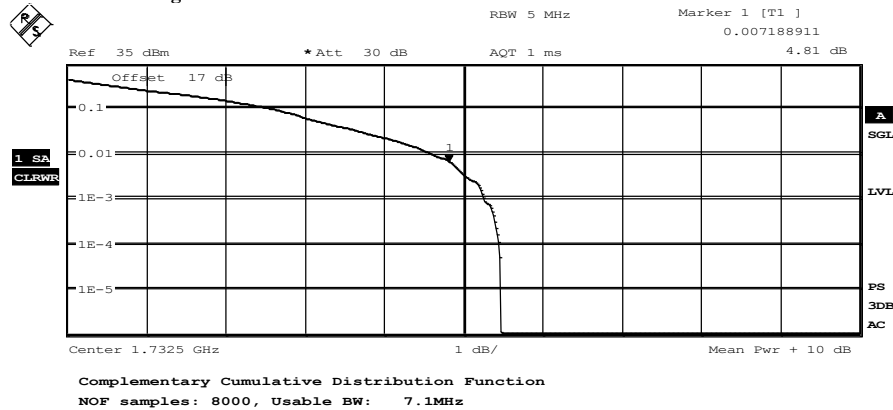
Date: 21.SEP.2017 13:41:28

Diagram: 16 QAM 20 MHz CH19100, 1 RB high

1.2.2. LTE Band 4

Worst-Case of each maximum Peak power value was tested with the CCDF method

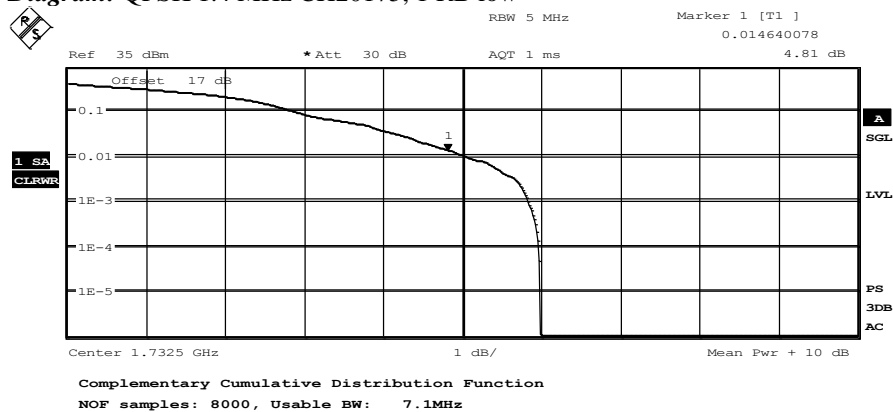
1.2.2.1. 1.4MHz signal bandwidth



Trace 1	
Mean	22.24 dBm
Peak	27.71 dBm
Crest	5.47 dB
10 %	2.63 dB
1 %	4.62 dB
.1 %	5.26 dB
.01 %	5.45 dB

Date: 21.SEP.2017 13:44:51

Diagram: QPSK 1.4 MHz CH20175, 1 RB low

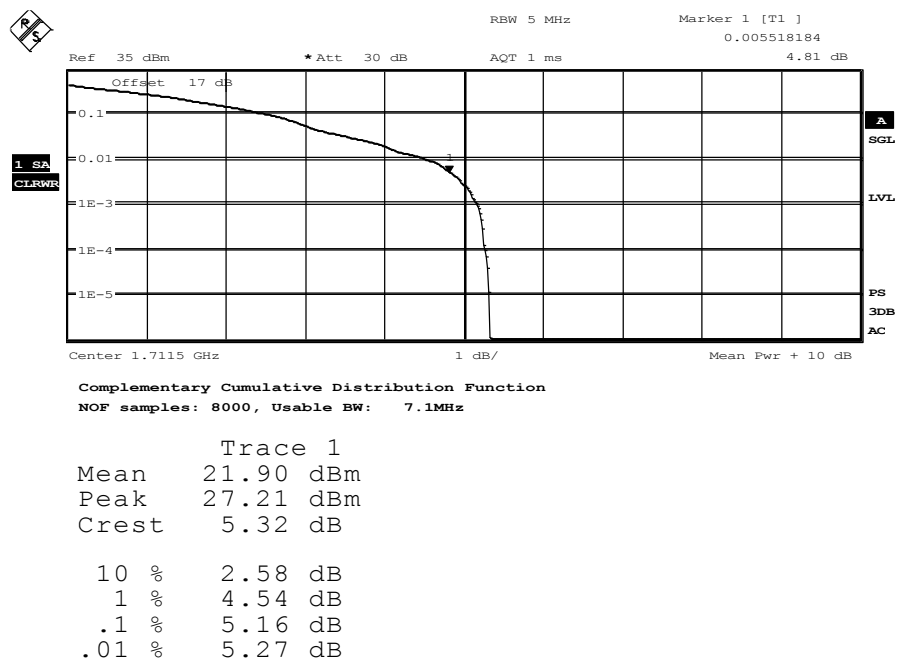


Trace 1	
Mean	21.38 dBm
Peak	27.36 dBm
Crest	5.98 dB
10 %	2.90 dB
1 %	5.06 dB
.1 %	5.83 dB
.01 %	5.96 dB

Date: 21.SEP.2017 13:46:06

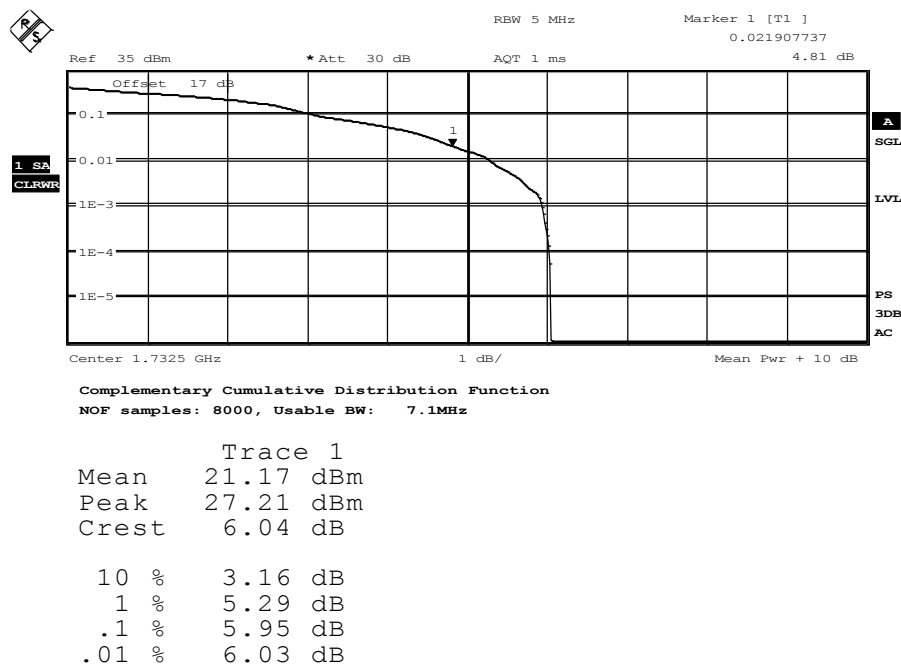
Diagram: 16 QAM 1.4 MHz CH20175, 1 RB high

1.2.2.2. 3MHz signal bandwidth



Date: 21.SEP.2017 13:48:05

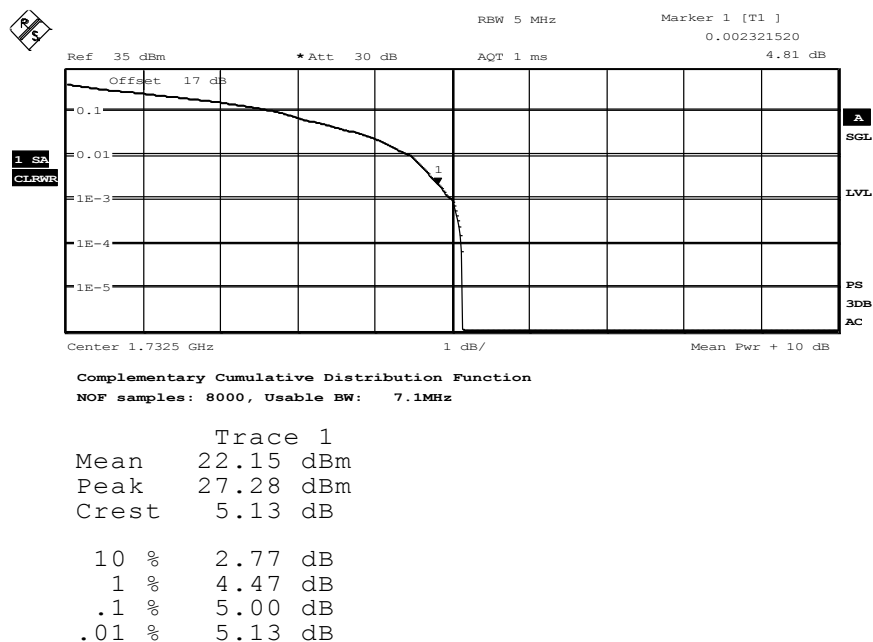
Diagram: QPSK 3 MHz CH19965, 1 RB high



Date: 21.SEP.2017 13:50:28

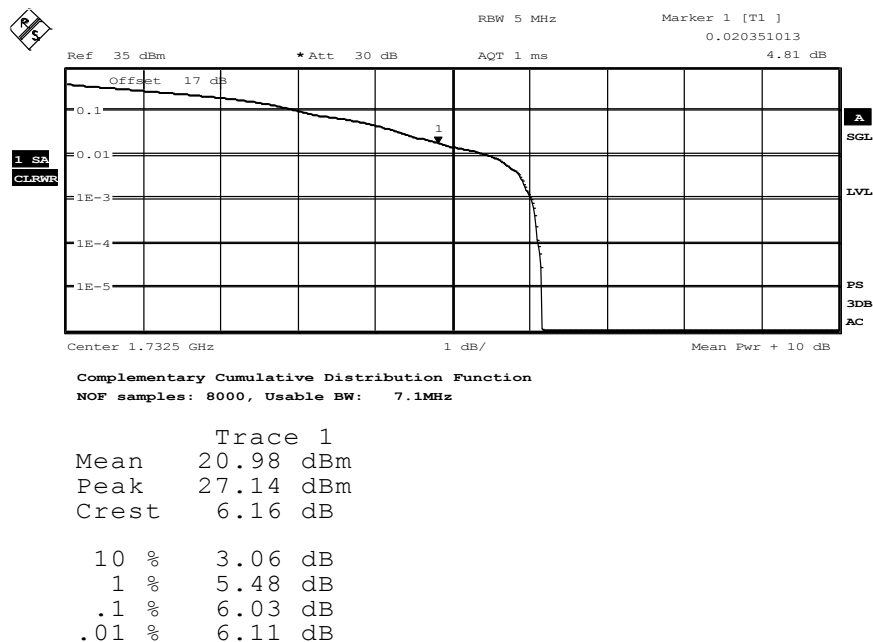
Diagram: 16 QAM 3 MHz CH20175, 1 RB high

1.2.2.3. 5MHz signal bandwidth



Date: 21.SEP.2017 13:57:04

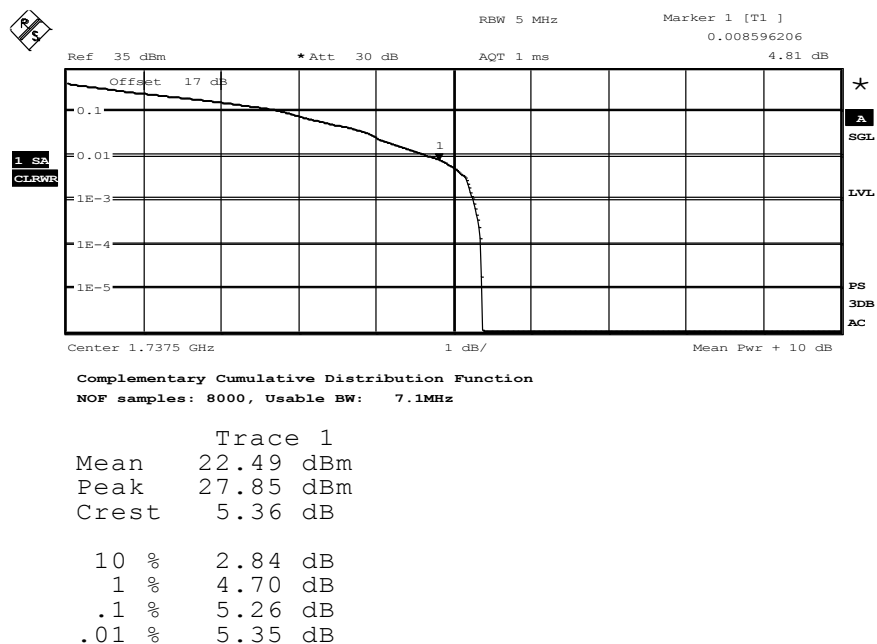
Diagram: QPSK 5 MHz CH20175, 1 RB high



Date: 21.SEP.2017 13:58:03

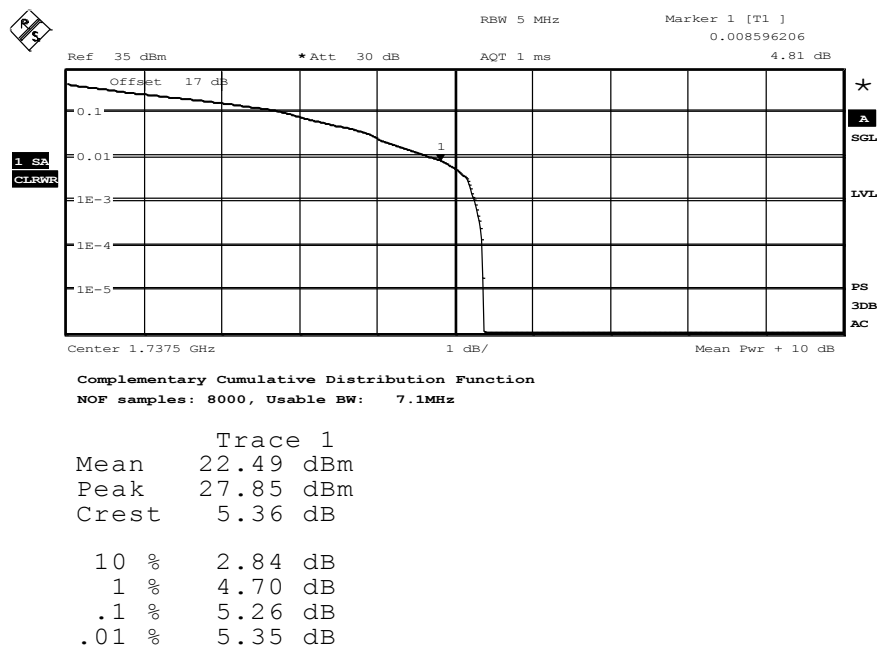
Diagram: 16 QAM 5 MHz CH20175, 1 RB high

1.2.2.4. 10MHz signal bandwidth



Date: 21.SEP.2017 14:00:54

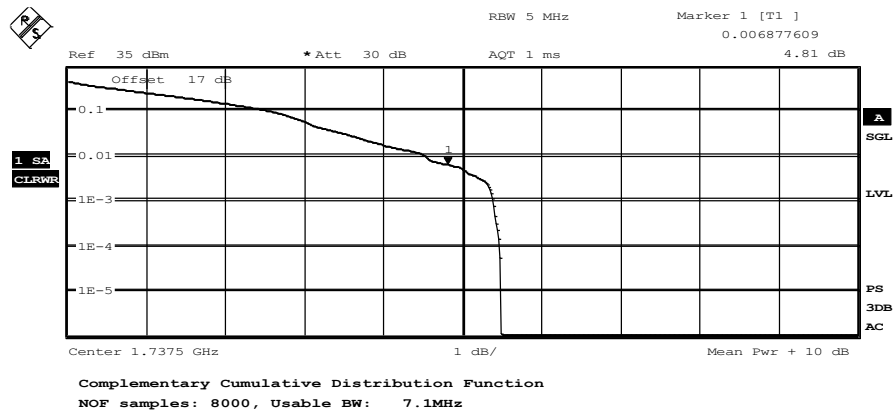
Diagram: QPSK 10 MHz CH20175, 1 RB high



Date: 21.SEP.2017 14:01:39

Diagram: 16 QAM 10 MHz CH20175, 1 RB high

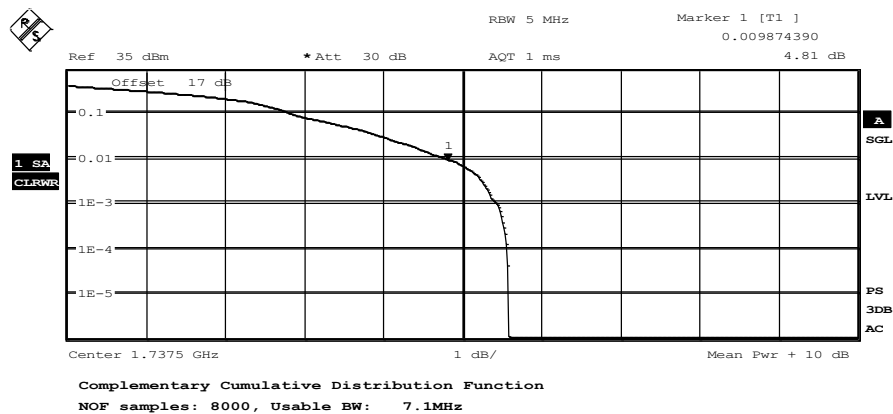
1.2.2.5. 15MHz signal bandwidth



Trace 1	
Mean	22.51 dBm
Peak	27.99 dBm
Crest	5.48 dB
10 %	2.60 dB
1 %	4.52 dB
.1 %	5.38 dB
.01 %	5.46 dB

Date: 21.SEP.2017 14:03:00

Diagram: QPSK 15 MHz CH20175, 1 RB high

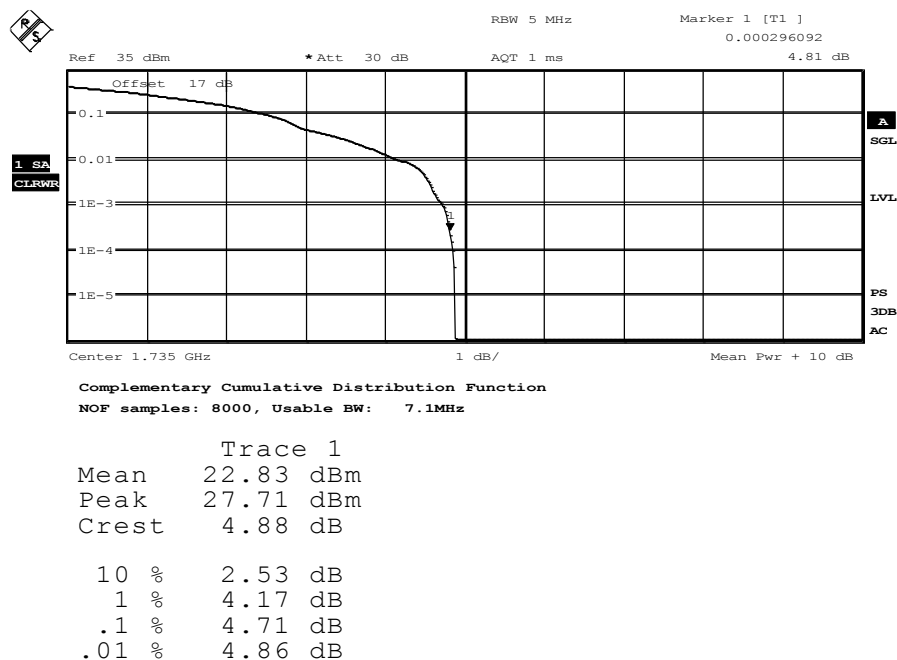


Trace 1	
Mean	21.78 dBm
Peak	27.36 dBm
Crest	5.58 dB
10 %	2.85 dB
1 %	4.81 dB
.1 %	5.43 dB
.01 %	5.56 dB

Date: 21.SEP.2017 14:03:46

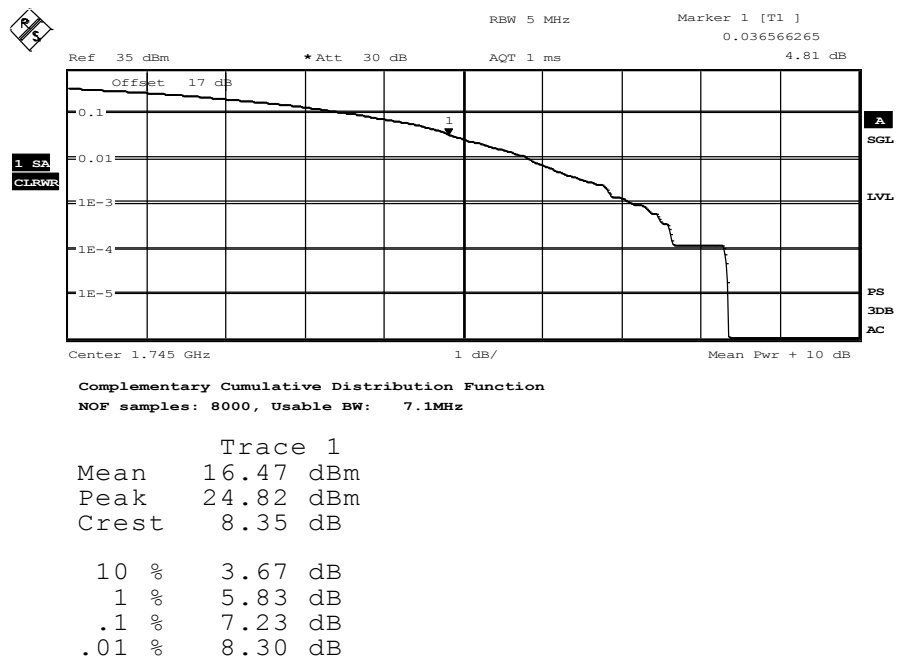
Diagram: 16 QAM 15 MHz CH20175, 1 RB high

1.2.2.6. 20MHz signal bandwidth



Date: 21.SEP.2017 14:06:23

Diagram: QPSK 20 MHz CH20300, 1 RB low



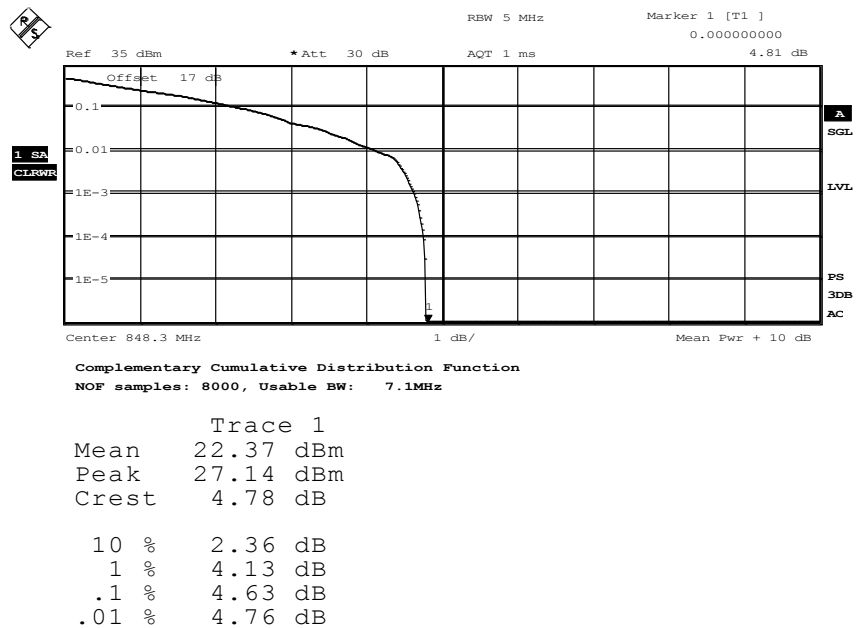
Date: 21.SEP.2017 14:08:34

Diagram: 16 QAM 20 MHz CH20175, 100% RB

1.2.3. LTE Band 5

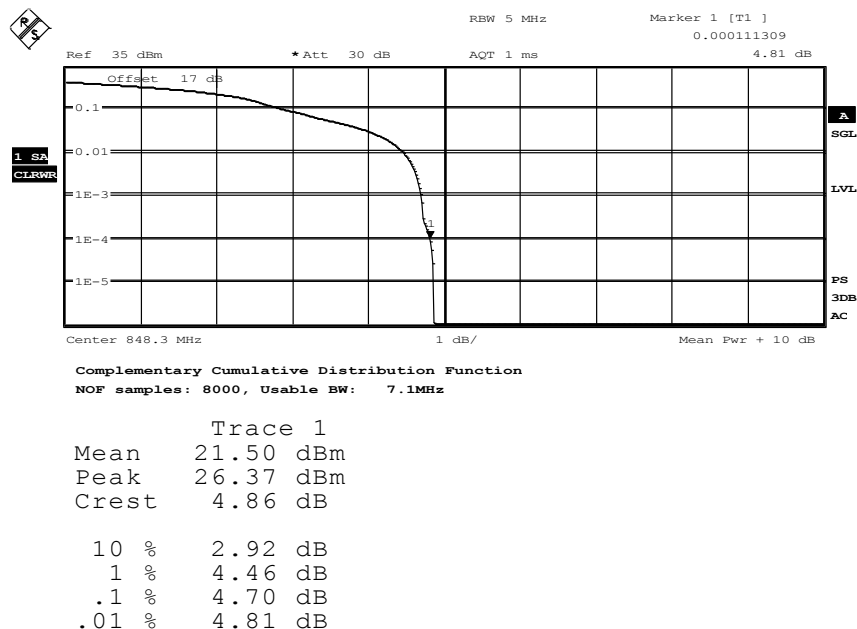
Worst-Case of each maximum Peak power value was tested with the CCDF method

1.2.3.1. 1.4MHz signal bandwidth



Date: 22.SEP.2017 09:35:48

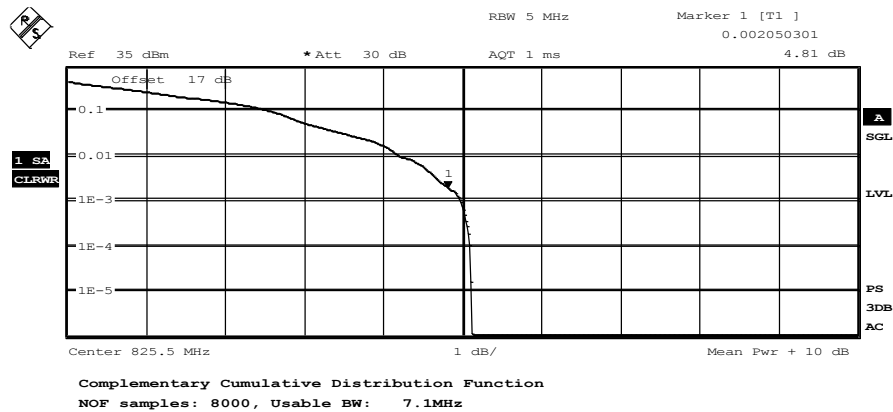
Diagram: QPSK 1.4 MHz CH20643, 1 RB low



Date: 22.SEP.2017 09:38:22

Diagram: 16 QAM 1.4 MHz CH20643, 1 RB low

1.2.3.2. 3MHz signal bandwidth

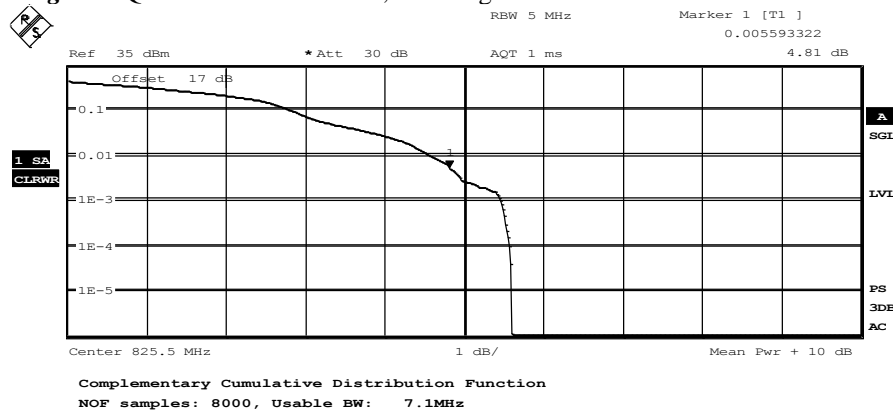


Trace 1

Mean	22.81 dBm
Peak	27.92 dBm
Crest	5.11 dB
10 %	2.60 dB
1 %	4.21 dB
.1 %	4.97 dB
.01 %	5.10 dB

Date: 22.SEP.2017 09:40:27

Diagram: QPSK 3 MHz CH20415, 1 RB high



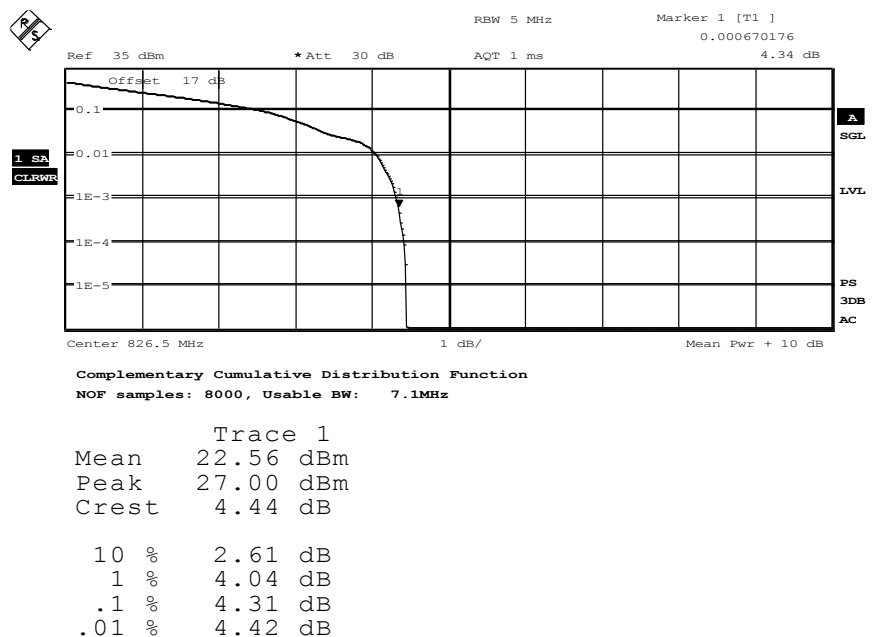
Trace 1

Mean	21.83 dBm
Peak	27.43 dBm
Crest	5.59 dB
10 %	2.84 dB
1 %	4.58 dB
.1 %	5.46 dB
.01 %	5.58 dB

Date: 22.SEP.2017 09:41:39

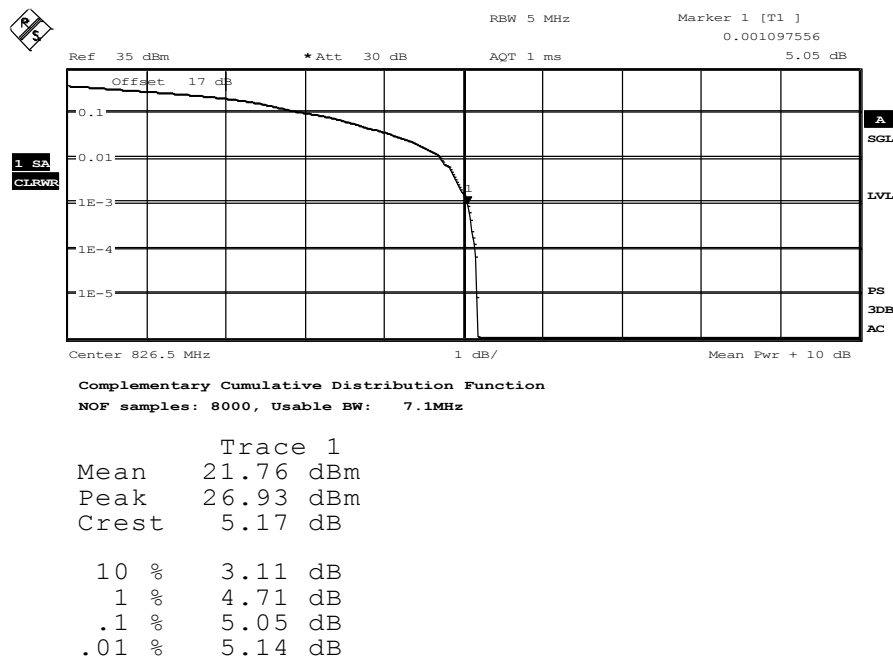
Diagram: 16 QAM 3 MHz CH20415, 1 RB high

1.2.3.3. 5MHz signal bandwidth



Date: 22.SEP.2017 09:43:13

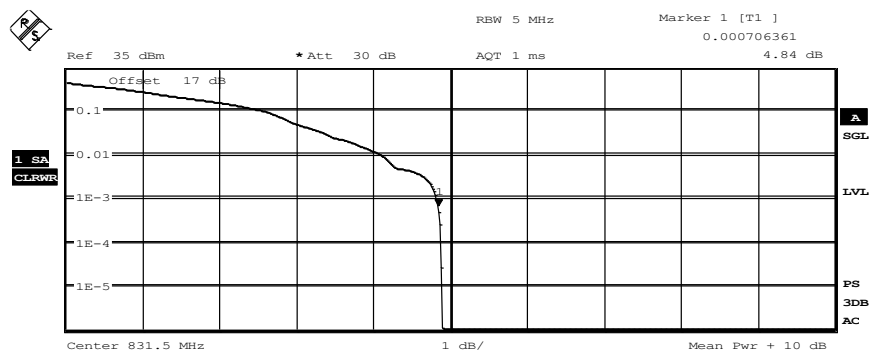
Diagram: QPSK 5 MHz CH20425, 1 RB high



Date: 22.SEP.2017 09:44:34

Diagram: 16 QAM 5 MHz CH20425, 1 RB high

1.2.3.4. 10MHz signal bandwidth

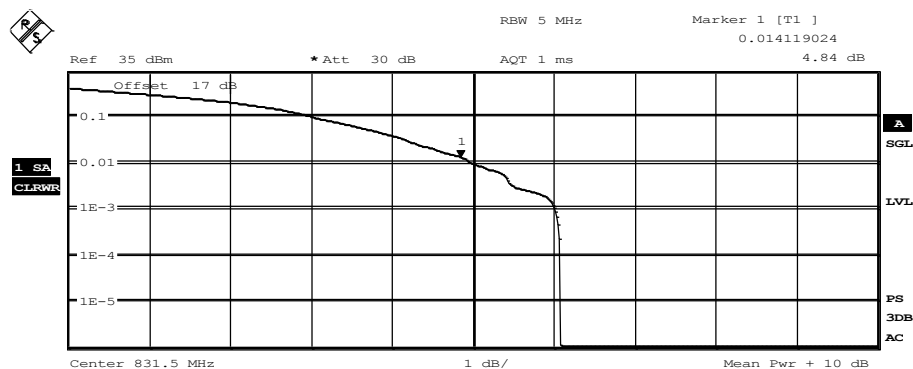


Complementary Cumulative Distribution Function
NOF samples: 8000, Usable BW: 7.1MHz

Trace 1	
Mean	22.40 dBm
Peak	27.28 dBm
Crest	4.88 dB
10 %	2.61 dB
1 %	4.10 dB
.1 %	4.82 dB
.01 %	4.89 dB

Date: 22.SEP.2017 09:47:08

Diagram: QPSK 10 MHz CH20525, 1 RB low



Complementary Cumulative Distribution Function
NOF samples: 8000, Usable BW: 7.1MHz

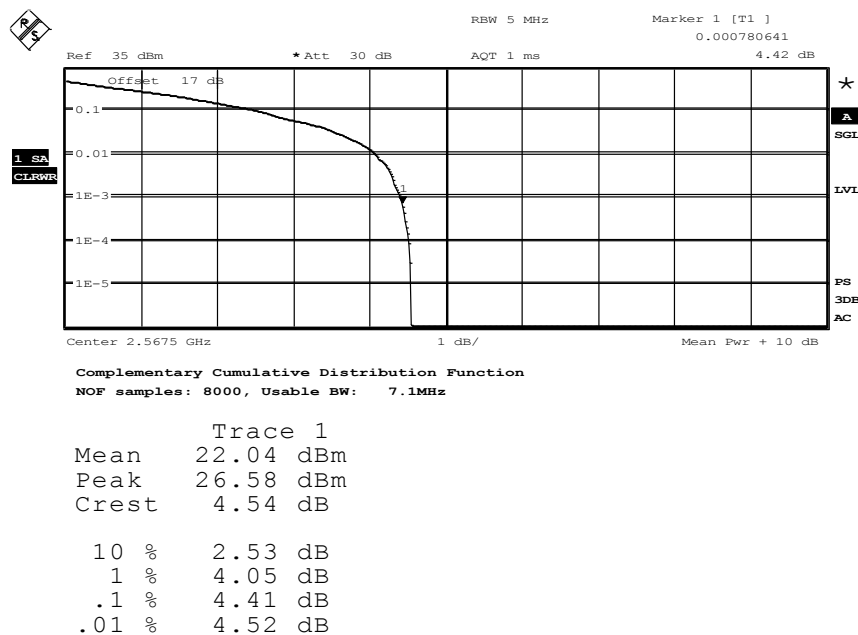
Trace 1	
Mean	21.35 dBm
Peak	27.43 dBm
Crest	6.08 dB
10 %	3.06 dB
1 %	5.00 dB
.1 %	6.01 dB
.01 %	6.09 dB

Date: 22.SEP.2017 09:48:04

Diagram: 16 QAM 10 MHz CH20525, 1 RB low

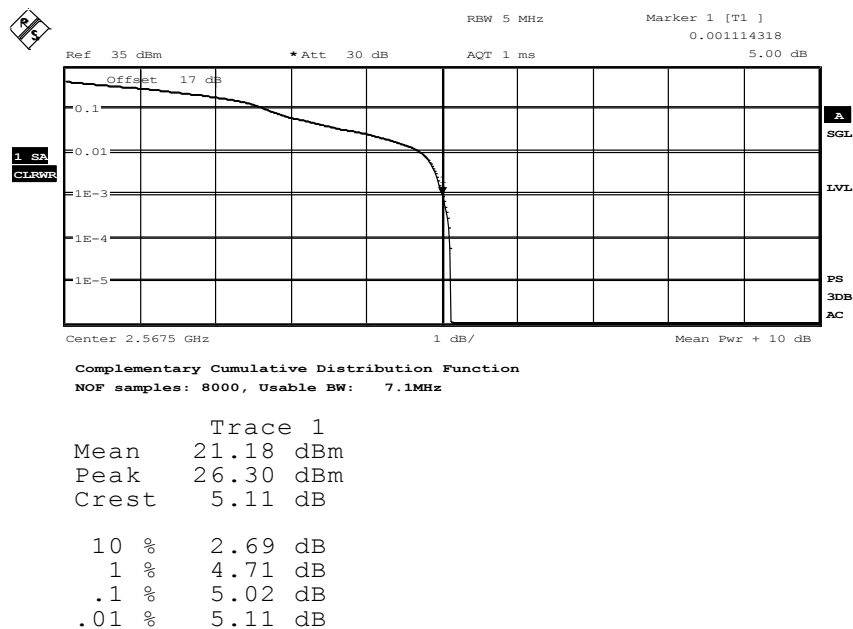
1.2.4. LTE Band 7

1.2.4.1. 5MHz signal bandwidth



Date: 22.SEP.2017 09:53:58

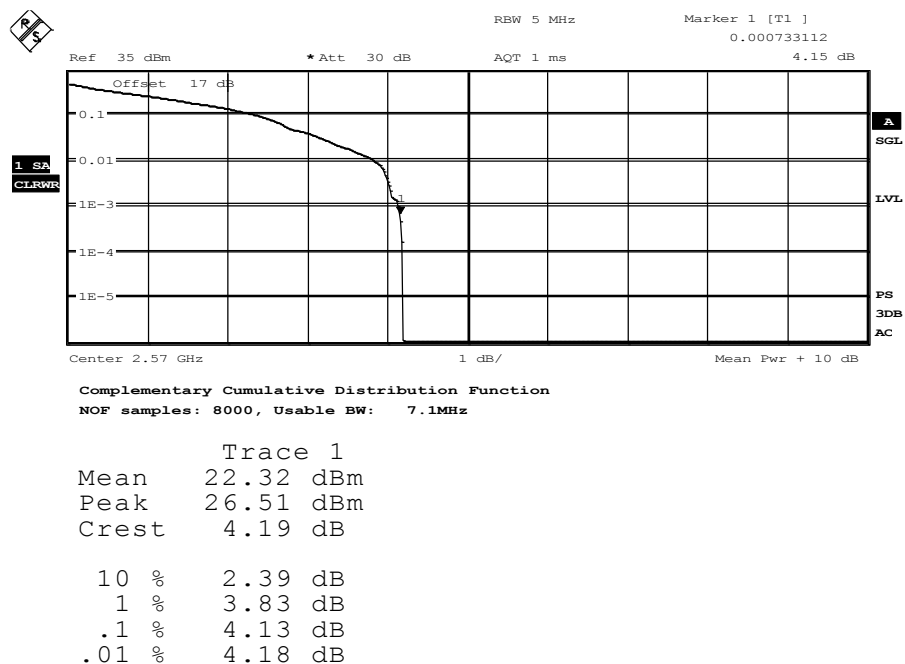
Diagram: QPSK 5 MHz CH21425, 1 RB high



Date: 22.SEP.2017 09:55:21

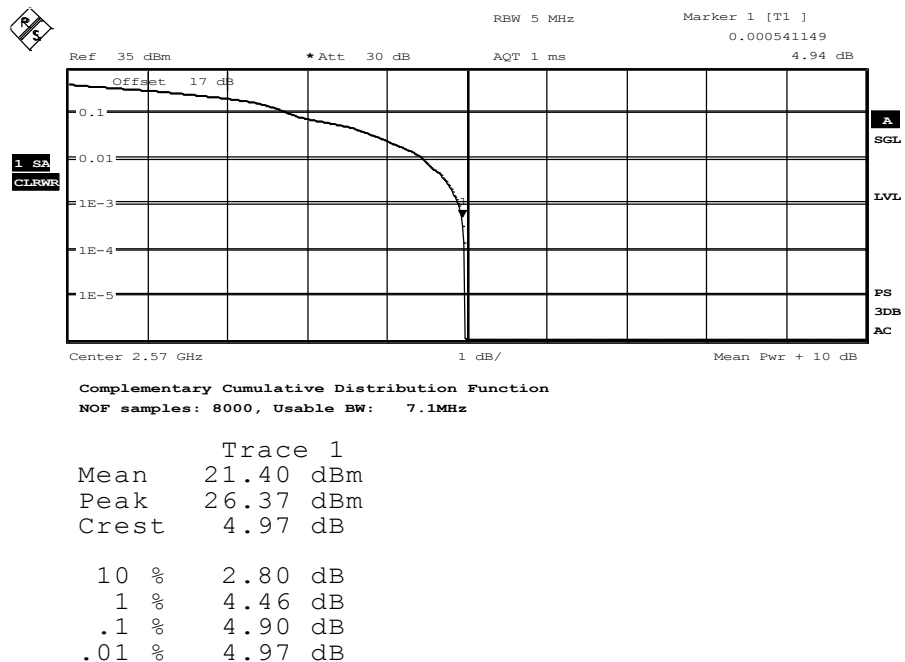
Diagram: 16 QAM 5 MHz CH21425, 50% RB

1.2.4.2. 10MHz signal bandwidth



Date: 22.SEP.2017 10:15:45

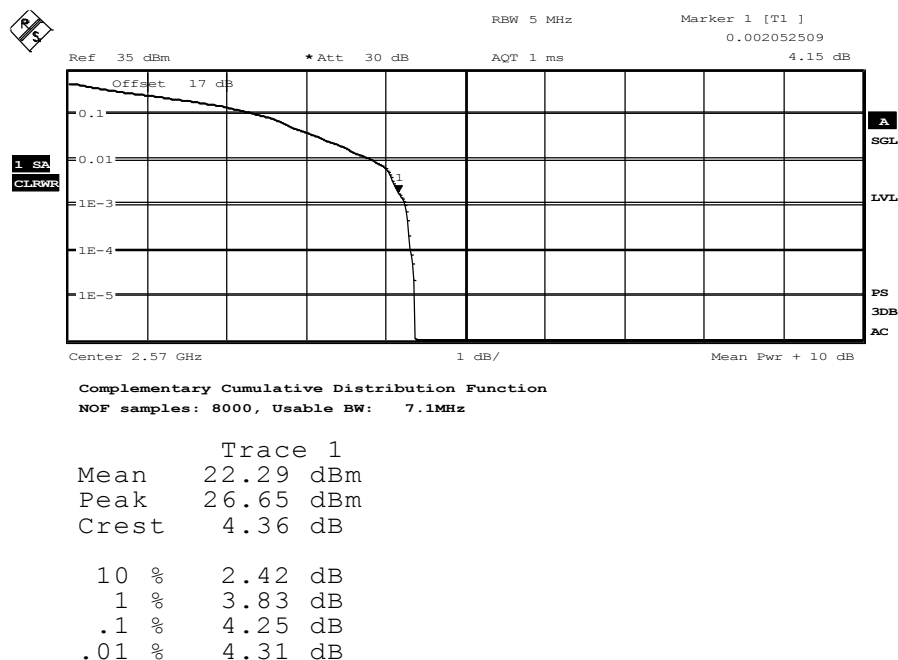
Diagram: QPSK 10 MHz CH21400, 1 RB high



Date: 22.SEP.2017 10:14:24

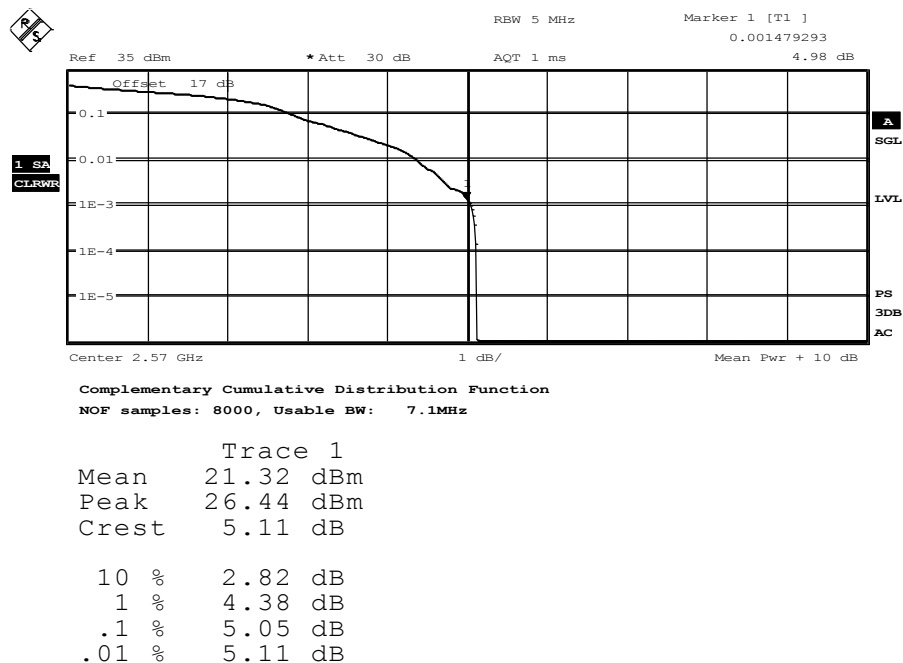
Diagram: 16 QAM 10 MHz CH21400, 1 RB high

1.2.4.3. 15MHz signal bandwidth



Date: 22.SEP.2017 10:18:35

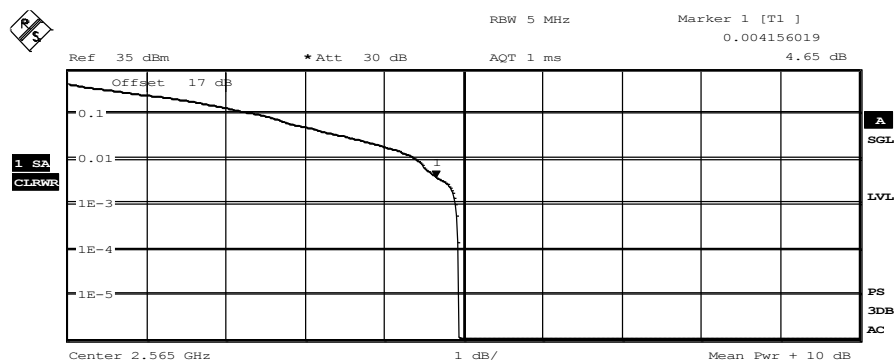
Diagram: QPSK 15 MHz CH21375, 1 RB high



Date: 22.SEP.2017 10:19:34

Diagram: 16 QAM 15 MHz CH21375, 1 RB high

1.2.4.4. 20MHz signal bandwidth



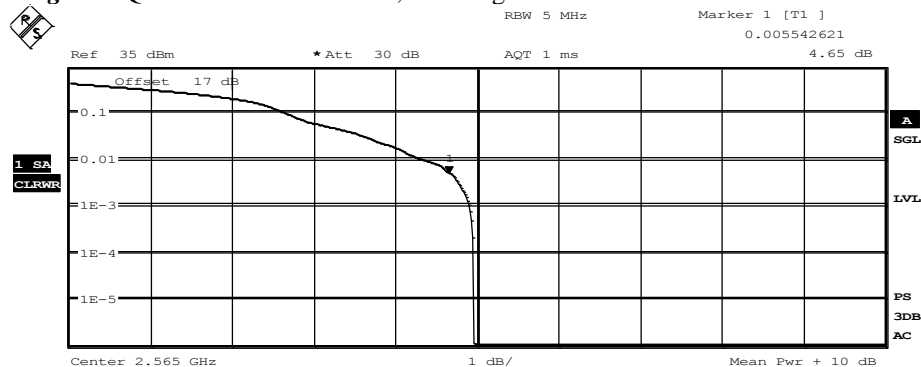
Complementary Cumulative Distribution Function
NOF samples: 8000, Usable BW: 7.1MHz

Trace 1
Mean 22.00 dBm
Peak 26.93 dBm
Crest 4.93 dB

10 % 2.44 dB
1 % 4.41 dB
.1 % 4.90 dB
.01 % 4.94 dB

Date: 22.SEP.2017 10:37:18

Diagram: QPSK 20 MHz CH21300, 1 RB high



Complementary Cumulative Distribution Function
NOF samples: 8000, Usable BW: 7.1MHz

Trace 1
Mean 21.13 dBm
Peak 26.09 dBm
Crest 4.96 dB

10 % 2.68 dB
1 % 4.36 dB
.1 % 4.90 dB
.01 % 4.97 dB

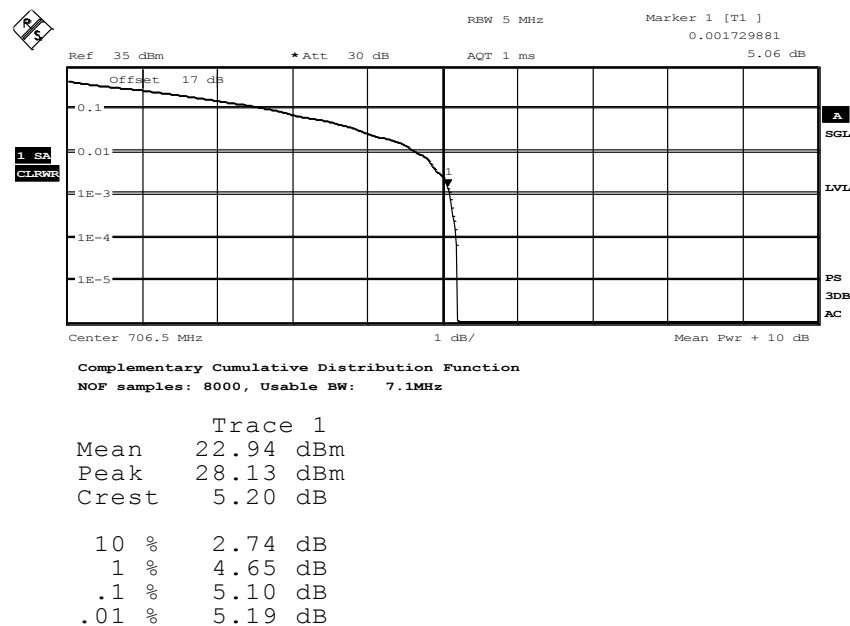
Date: 22.SEP.2017 10:40:19

Diagram: 16 QAM 20 MHz CH21300, 1 RB high

1.2.5. LTE Band 17

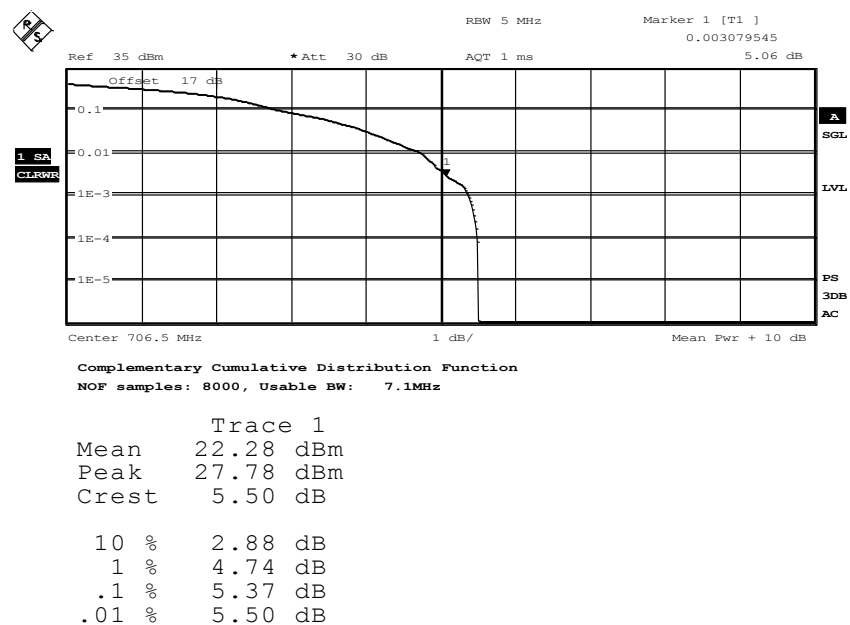
Worst-Case of each maximum Peak power value was tested with the CCDF method

1.2.5.1. 5MHz signal bandwidth



Date: 22.SEP.2017 10:48:18

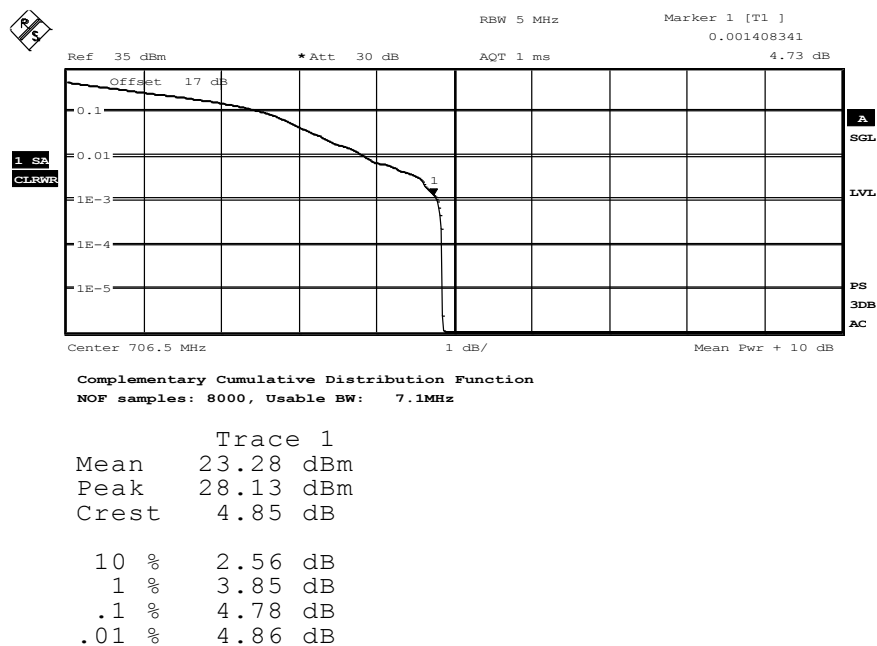
Diagram: QPSK 5 MHz CH23755, 1 RB high



Date: 22.SEP.2017 10:49:29

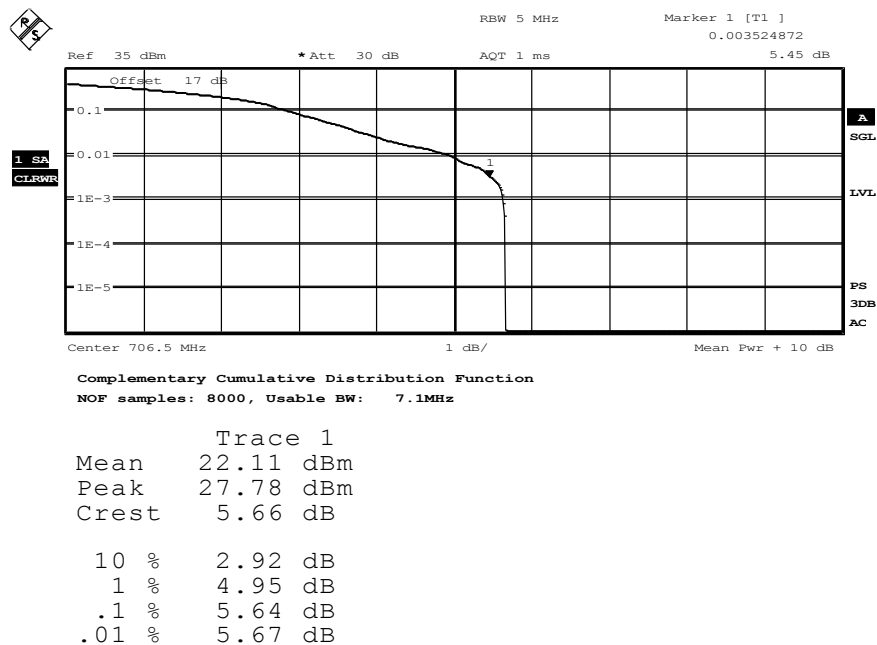
Diagram: 16 QAM 5 MHz CH23755, 1 RB high

1.2.5.2. 10MHz signal bandwidth



Date: 22.SEP.2017 10:51:12

Diagram: QPSK 10 MHz CH23800, 1 RB low



Date: 22.SEP.2017 10:52:16

Diagram: 16 QAM 10 MHz CH23800, 1 RB low

1.3. Spurious emissions radiated (LTE Band 2)

1.3.1. Magnetic field strength radiated (LTE Band 2)

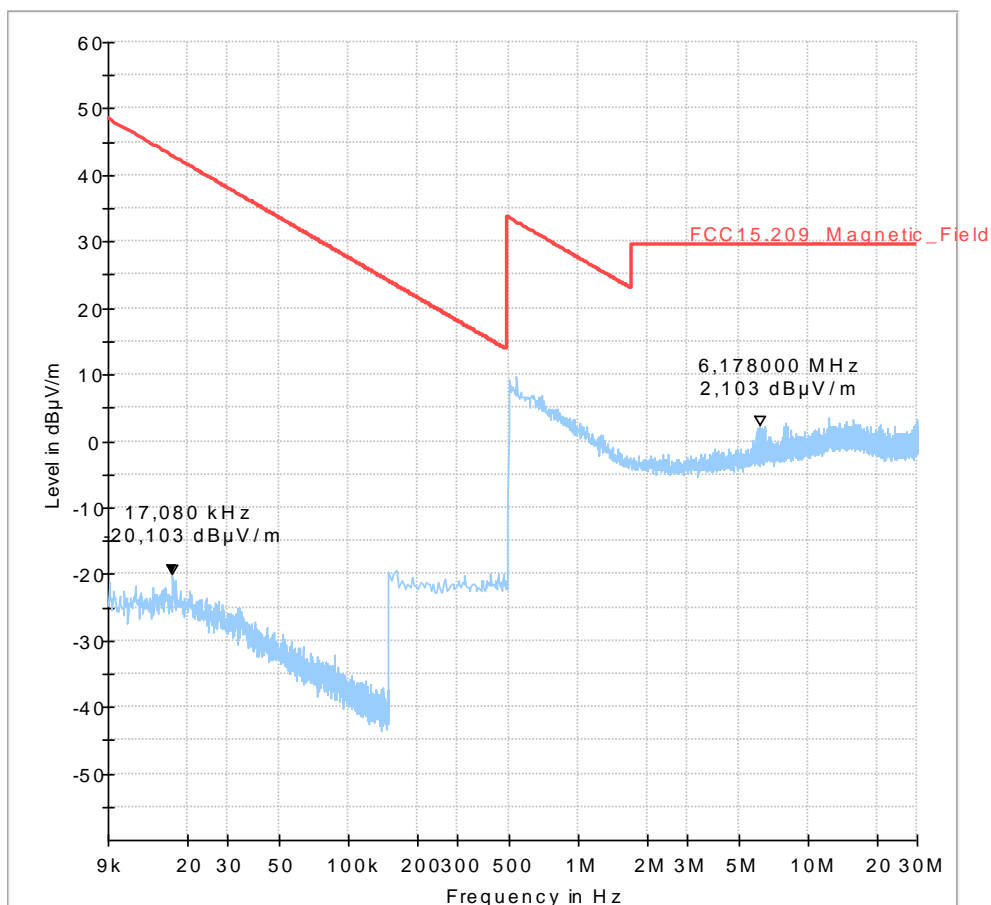
2.01_RSE_R_Ch18607_BW_1,4

Common Information

Test Description:	Magnetic Field Strength Measurement related to 30/300m distance
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3m measurement distance
Version of Testsoftware	EMC32 V9.25.0
Distance Correction	used accord. table, pls. see test report
Technical Data	Please see page 2 for detailed data of measurement setup
REc. antenna (pre-scan)	height 1.00 m, parallel and 90° to EUT polarisation
Used Filter	bypass
Test specification	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operating Mode	BW_1,4MHz_1RB low_CH_18607
Operator	DLe
Operating Conditions	Humidity: 35%rH; Temperature: 20°C
Power during Test	24V DC

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	66-10777-001
HW Version:	9134G05
SW Version:	17.02.S.016
Serial Number:	2950006922
Connected Interfaces:	Main wiring + DTNA Antenna
Power Supply:	24V DC



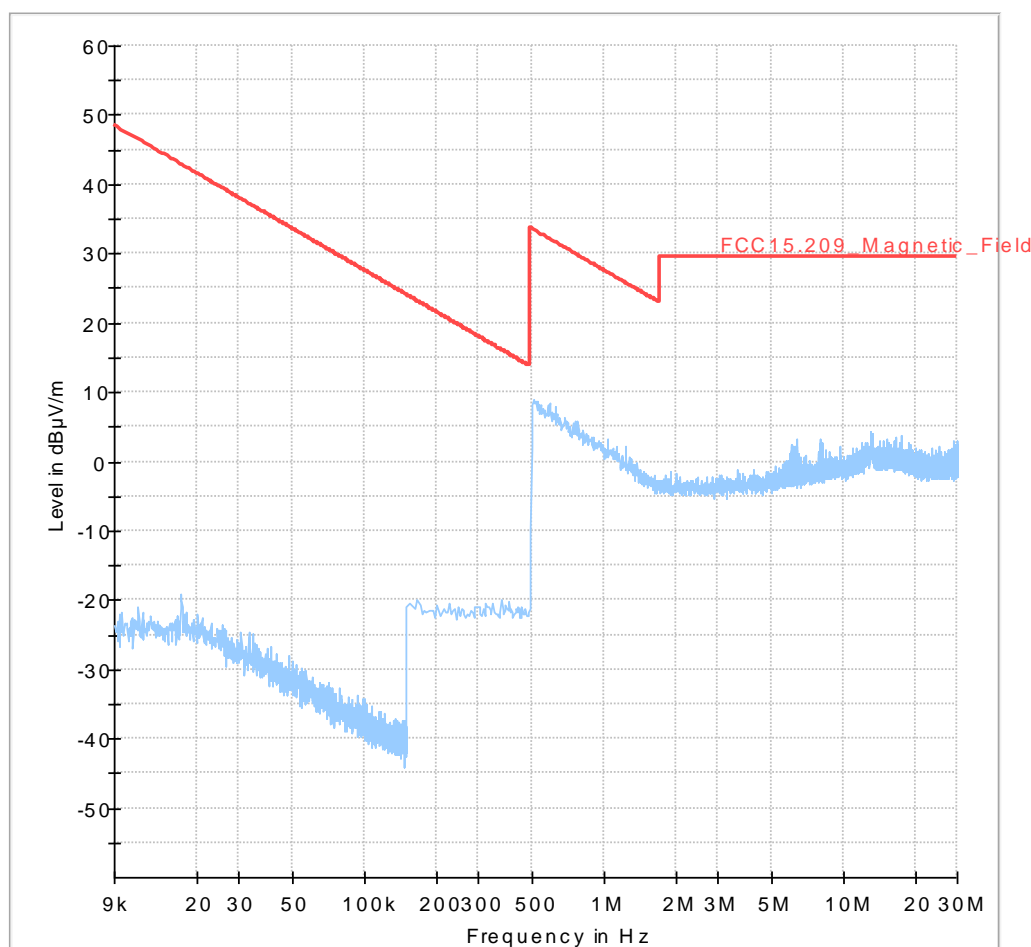
2.02_RSE_R_Ch18900_BW_10

Common Information

Test Description:	Magnetic Field Strength Measurement related to 30/300m distance
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3m measurement distance
Version of Testsoftware	EMC32 V9.25.0
Distance Correction	used accord. table, pls. see test report
Technical Data	Please see page 2 for detailed data of measurement setup
REc. antenna (pre-scan)	height 1.00 m, parallel and 90° to EUT polarisation
Used Filter	bypass
Test specification	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operating Mode	BW_10MHz_1RB high_CH_18900
Operator	DLe
Operating Conditions	Humidity: 35%rH; Temperature: 20°C
Power during Test	24V DC

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	66-10777-001
HW Version:	9134G05
SW Version:	17.02.S.016
Serial Number:	2950006922
Connected Interfaces:	Main wiring + DTNA Antenna
Power Supply:	24V DC



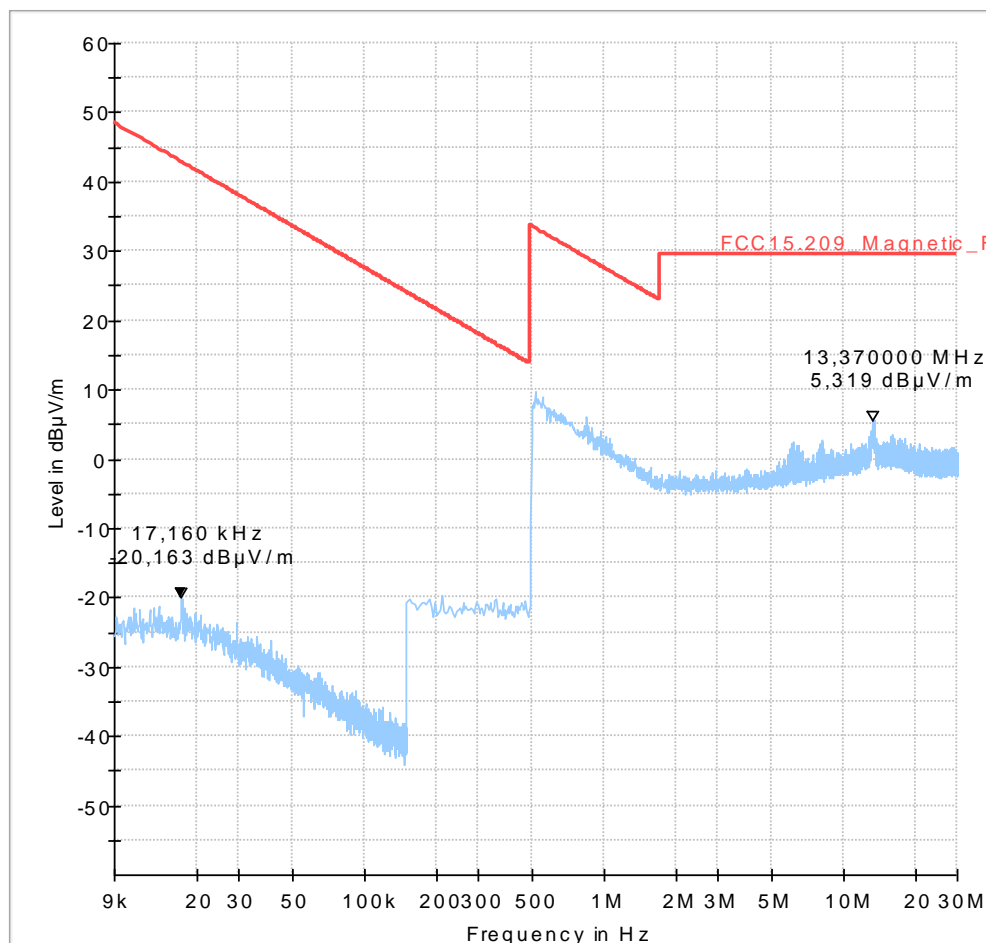
2.03_RSE_R_Ch19150_BW_10

Common Information

Test Description:	Magnetic Field Strength Measurement related to 30/300m distance
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3m measurement distance
Version of Testsoftware	EMC32 V9.25.0
Distance Correction	used accord. table, pls. see test report
Technical Data	Please see page 2 for detailed data of measurement setup
REc. antenna (pre-scan)	height 1.00 m, parallel and 90° to EUT polarisation
Used Filter	bypass
Test specification	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operating Mode	BW_10MHz_1RB high _CH_19150
Operator	DLe
Operating Conditions	Humidity: 35%rH; Temperature: 20°C
Power during Test	24V DC

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	66-10777-001
HW Version:	9134G05
SW Version:	17.02.S.016
Serial Number:	2950006922
Connected Interfaces:	Main wiring + DTNA Antenna
Power Supply:	24V DC



1.3.2. Emissions above 30MHz (LTE Band 2)

8.01_RSE_R_Ch18607_BW_1,4

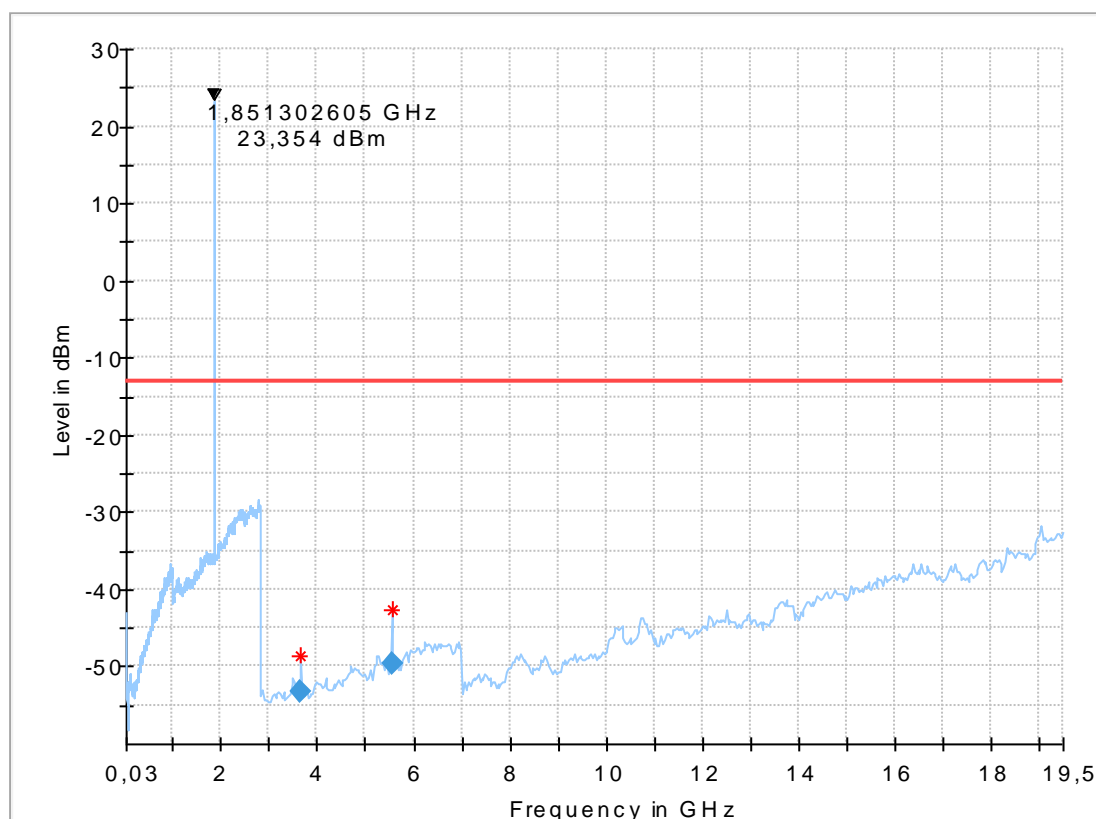
Common Information

Test Description:	Radiated Spurious Emissions LTE FDDII
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 24
Operating Mode:	BW_1,4MHz_1RB low_Ch_18607
Environmental Conditions:	Humidity: 50%rH; Temperature: 25°C
Operator:	RI

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	66-10777-001
HW Version:	9134G05
SW Version:	17.02.S.016
Serial Number:	2950006922
Connected Interfaces:	Main wiring + DTNA Antenna
Power Supply:	24V DC

Full Spectrum



Final Result

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
3669.753507	-53.27	-13.00	40.27	10000.0	1000.000	H	272.0	0.0	-94.8
5544.382765	-49.62	-13.00	36.62	10000.0	1000.000	H	248.0	0.0	-89.9

8.02_RSE_ R_Ch18900_BW_10

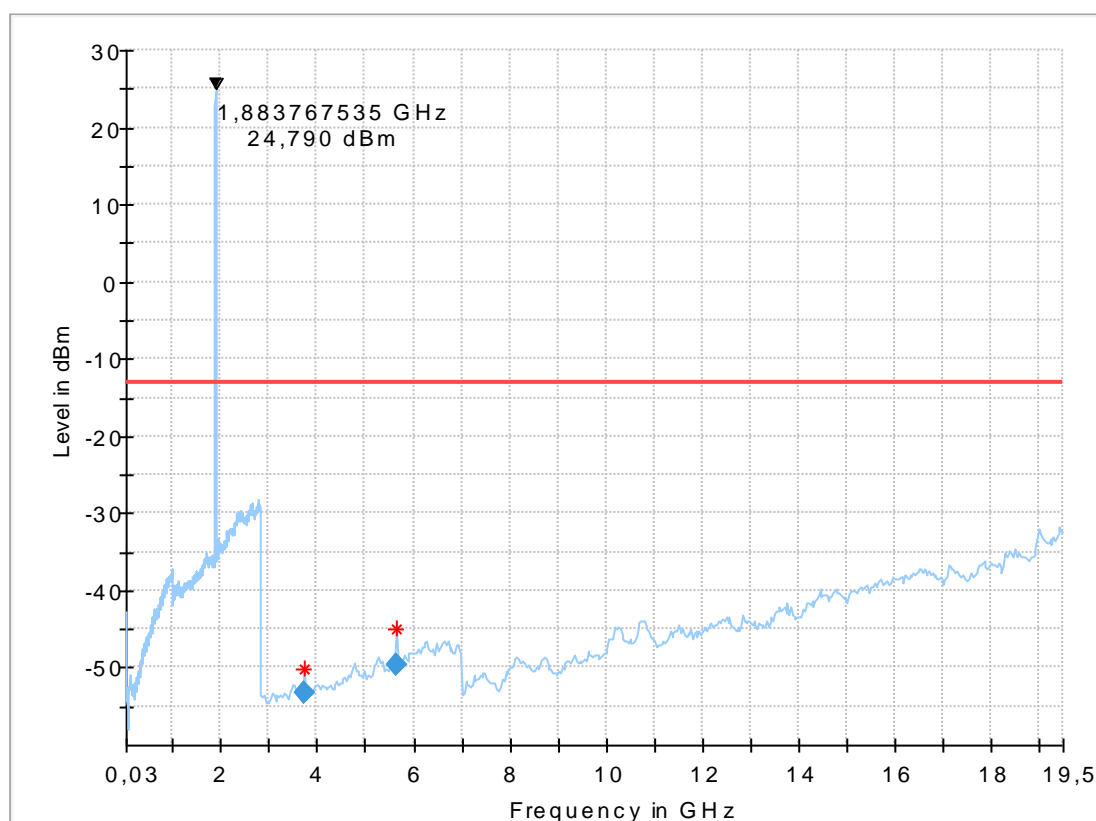
Common Information

Test Description:	Radiated Spurious Emissions LTE FDDII
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 24
Operating Mode:	BW_10MHz_1RB high_Ch_18900
Environmental Conditions:	Humidity: 50%rH; Temperature: 25°C
Operator:	

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	66-10777-001
-----	-----
HW Version:	9134G05
SW Version:	17.02.S.016
Serial Number:	2950006922
Connected Interfaces:	Main wiring + DTNA Antenna
Power Supply:	24V DC

Full Spectrum



Final Result

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
3736.775551	-53.38	-	40.38	10000.0	1000.000	H	203.0	0.0	-95.0
5644.274549	-49.68	-	36.68	10000.0	1000.000	H	294.0	0.0	-89.7

8.03_RSE_R_Ch19150_BW_10

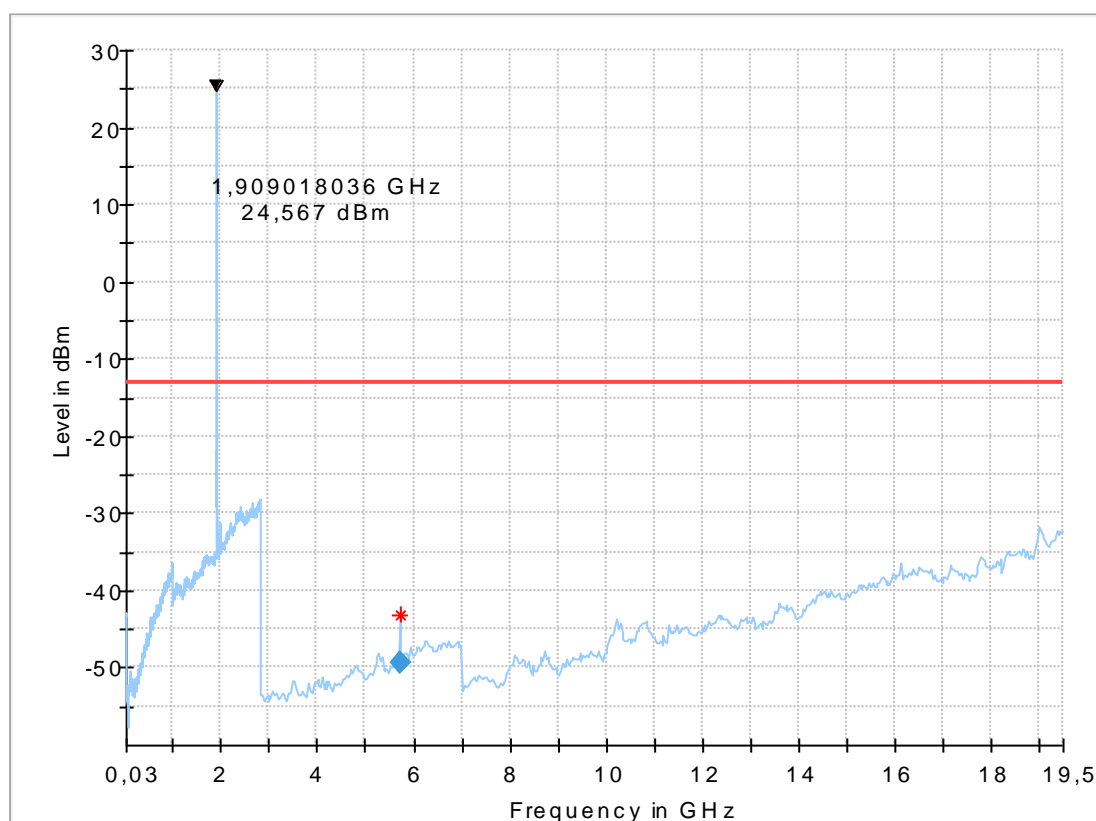
Common Information

Test Description:	Radiated Spurious Emissions LTE FDDII
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 24
Operating Mode:	BW_10MHz_1RB_high_Ch_19150
Environmental Conditions:	Humidity: 35%rH; Temperature: 22°C
Operator:	SRa

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	66-10777-001
HW Version:	9134G05
SW Version:	17.02.S.016
Serial Number:	2950006922
Connected Interfaces:	Main wiring + DTNA Antenna
Power Supply:	24V DC

Full Spectrum



Final Result

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
5712.290582	-49.44	13.00	36.44	10000.0	1000.000	H	241.0	0.0	-89.5

1.4. Spurious emissions radiated (LTE Band 4)

1.4.1. Magnetic field strength radiated (LTE Band 4)

Diagram No. 2.11_RSE_R_Ch19965_BW_3

Common Information

Test description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Testsoftware:	EMC32 V9.25.0
Distance correction:	used accord. table, pls. see test report
Technical Data:	Please see page 2 for detailed data of measurement setup
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Used filter:	bypass
Test specification:	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operator:	RI
Operating conditions:	BW_3MHz_1RB high_Ch_19965
Power during tests:	24V DC
Comment 1:	Channel low

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	66-10777-001
HW Version:	9134G05
SW Version:	17.02.S.016
Serial Number:	2950006922
Connected Interfaces:	Main wiring + DTNA Antenna
Power Supply:	24V DC

Full Spectrum

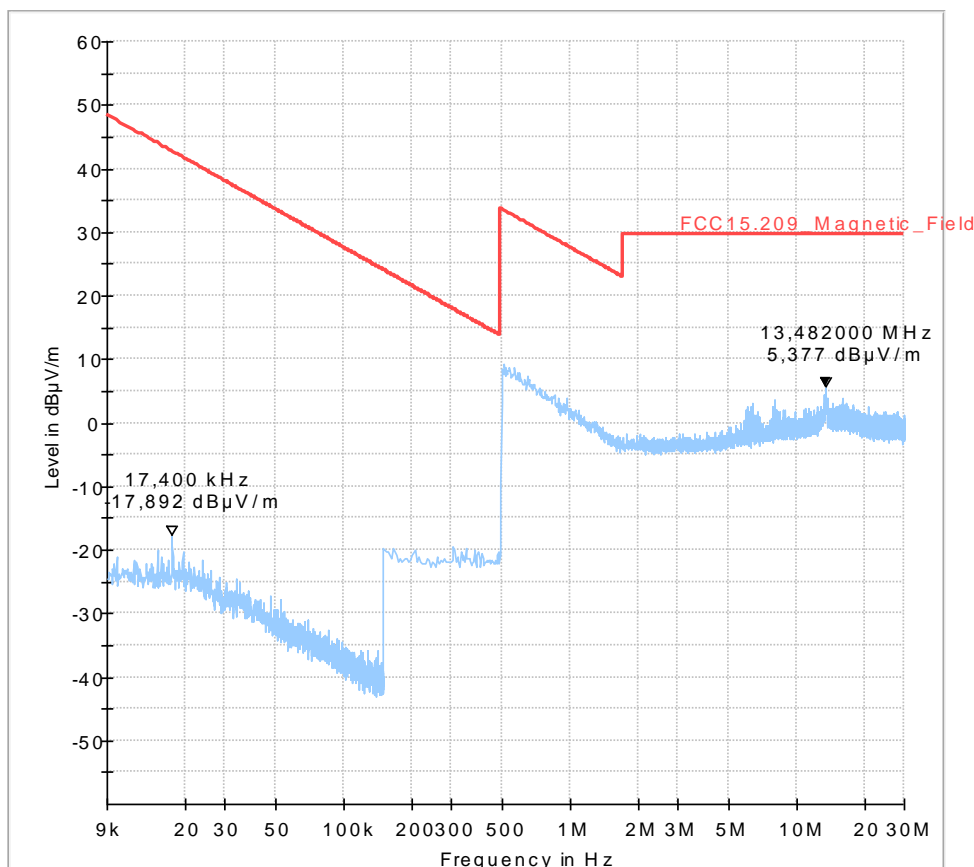


Diagram No. 2.12_RSE_R_Ch20175_BW_10

Common Information

Test description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Testsoftware:	EMC32 V9.25.0
Distance correction:	used accord. table, pls. see test report
Technical Data:	Please see page 2 for detailed data of measurement setup
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Used filter:	bypass
Test specification:	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operator:	RI
Operating conditions:	BW_10MHz_1RB_high_QPSK_CH_20175
Power during tests:	24V DC
Comment 1:	Channel low

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	66-10777-001
HW Version:	9134G05
SW Version:	17.02.S.016
Serial Number:	2950006922
Connected Interfaces:	Main wiring + DTNA Antenna
Power Supply:	24V DC

Full Spectrum

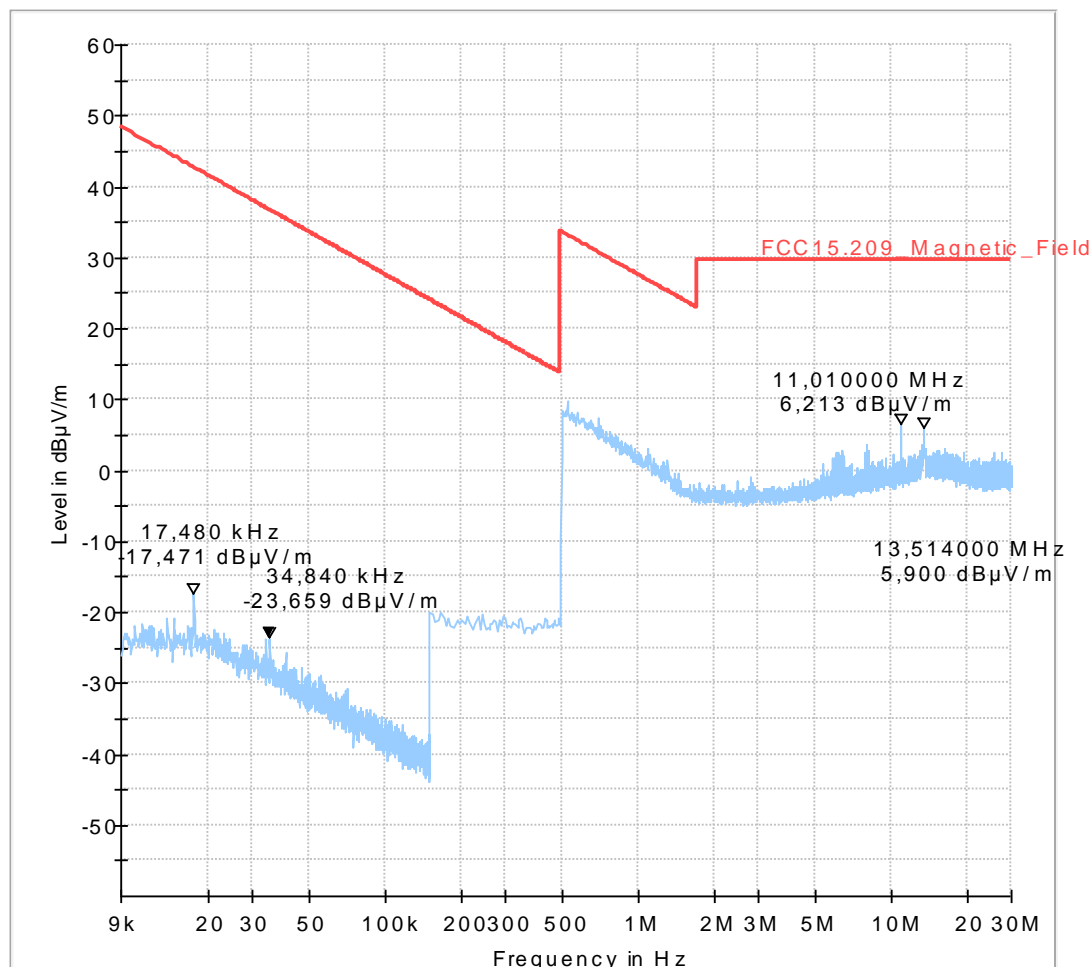


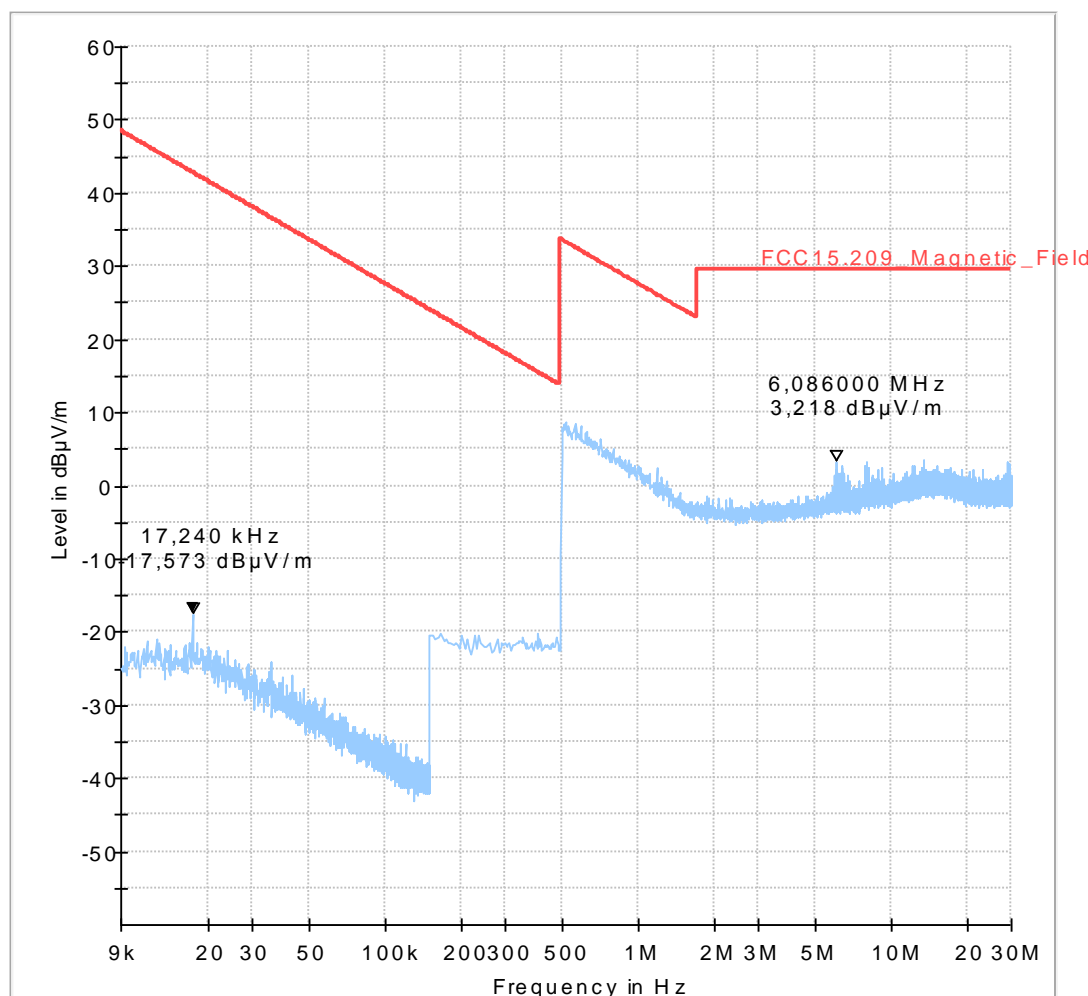
Diagram No.2.13_RSE_R_Ch20300_BW_20

Common Information

Test Description:	Magnetic Field Strength Measurement related to 30/300m distance
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3m measurement distance
Version of Testsoftware	EMC32 V9.25.0
Distance Correction	used accord. table, pls. see test report
Technical Data	Please see page 2 for detailed data of measurement setup
REc. antenna (pre-scan)	height 1.00 m, parallel and 90° to EUT polarisation
Used Filter	bypass
Test specification	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operating Mode	BW_20MHz_RB_low_QPSK_CH_20300
Operator	DLe
Operating Conditions	Humidity: 35%rH; Temperature: 20°C
Power during Test	24V DC

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	66-10777-001
HW Version:	9134G05
SW Version:	17.02.S.016
Serial Number:	2950006922
Connected Interfaces:	Main wiring + DTNA Antenna
Power Supply:	24V DC



1.4.2. Emissions above 30MHz (LTE Band 4)

8.11_RSE_R_Ch19965_BW_3

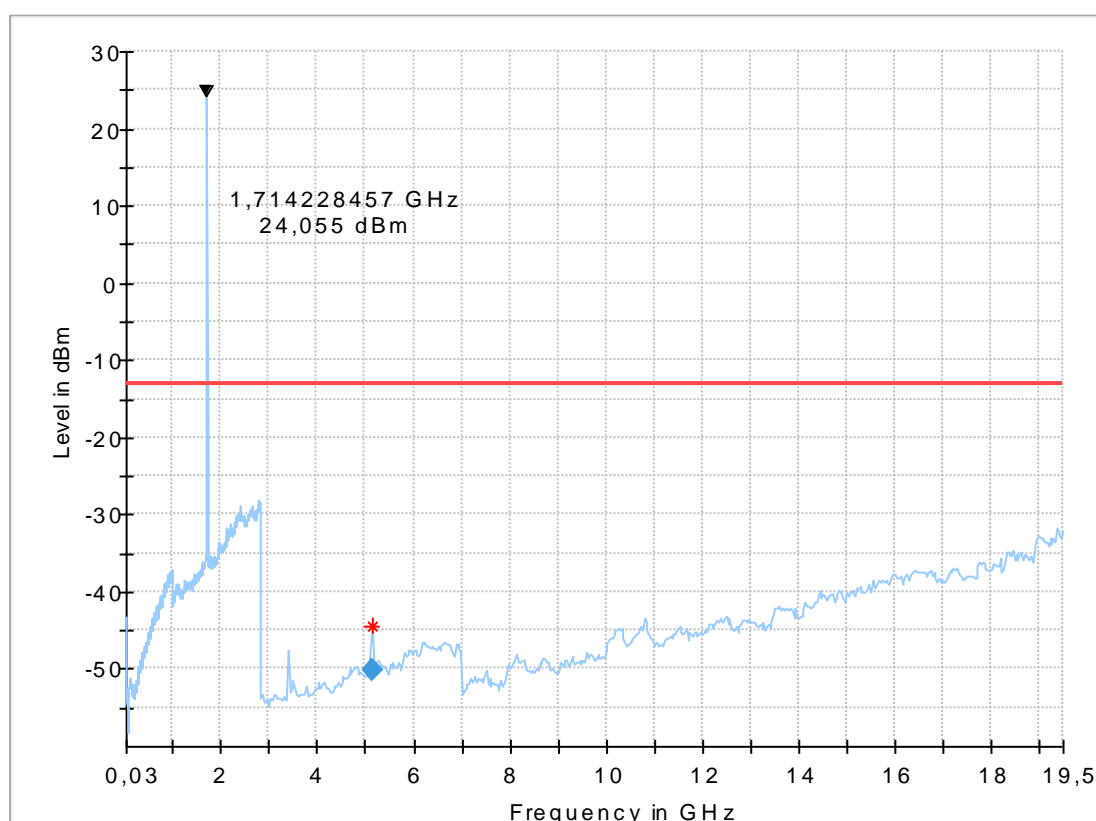
Common Information

Test Description:	Radiated Spurious Emissions LTE FDD4
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 24
Operating Mode:	BW_3MHz_1RB_high_QPSK_CH_19965
Environmental Conditions:	Humidity: 35%rH; Temperature: 22°C
Operator:	SRa

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	66-10777-001
HW Version:	9134G05
SW Version:	17.02.S.016
Serial Number:	2950006922
Connected Interfaces:	Main wiring + DTNA Antenna
Power Supply:	24V DC

Full Spectrum



Final Result

Frequency (MHz)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
5142.891784	13.00	37.25	10000.0	H	273.0	0.0	-90.5

8.12_RSE_R_Ch20175_BW_10

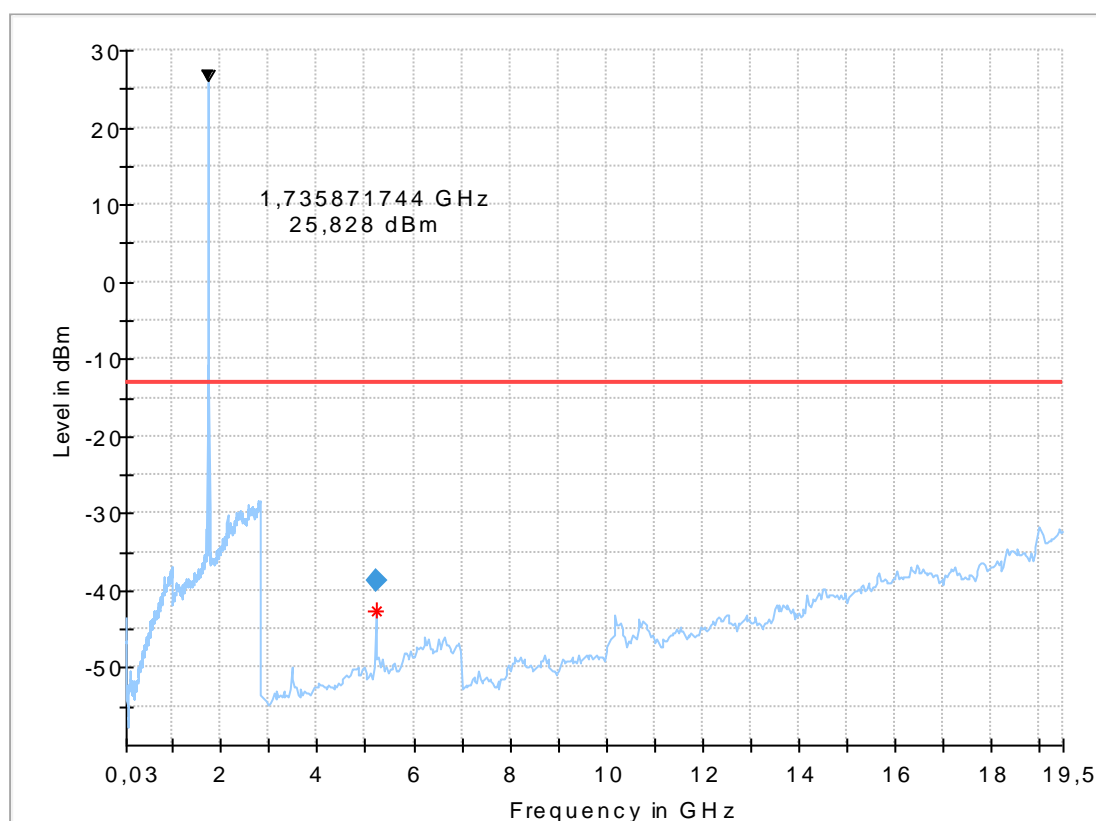
Common Information

Test Description:	Radiated Spurious Emissions LTE FDD4
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 24
Operating Mode:	BW_10MHz_1RB_high_QPSK_CH_20175
Environmental Conditions:	Humidity: 35%rH; Temperature: 22°C
Operator:	SRa

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	66-10777-001
HW Version:	9134G05
SW Version:	17.02.S.016
Serial Number:	2950006922
Connected Interfaces:	Main wiring + DTNA Antenna
Power Supply:	24V DC

Full Spectrum



Final Result

Frequency (MHz)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
5210.603207	-13.00	25.69	10000.0	V	268.0	0.0	-89.1

8.13_RSE_R_Ch20300_BW_20

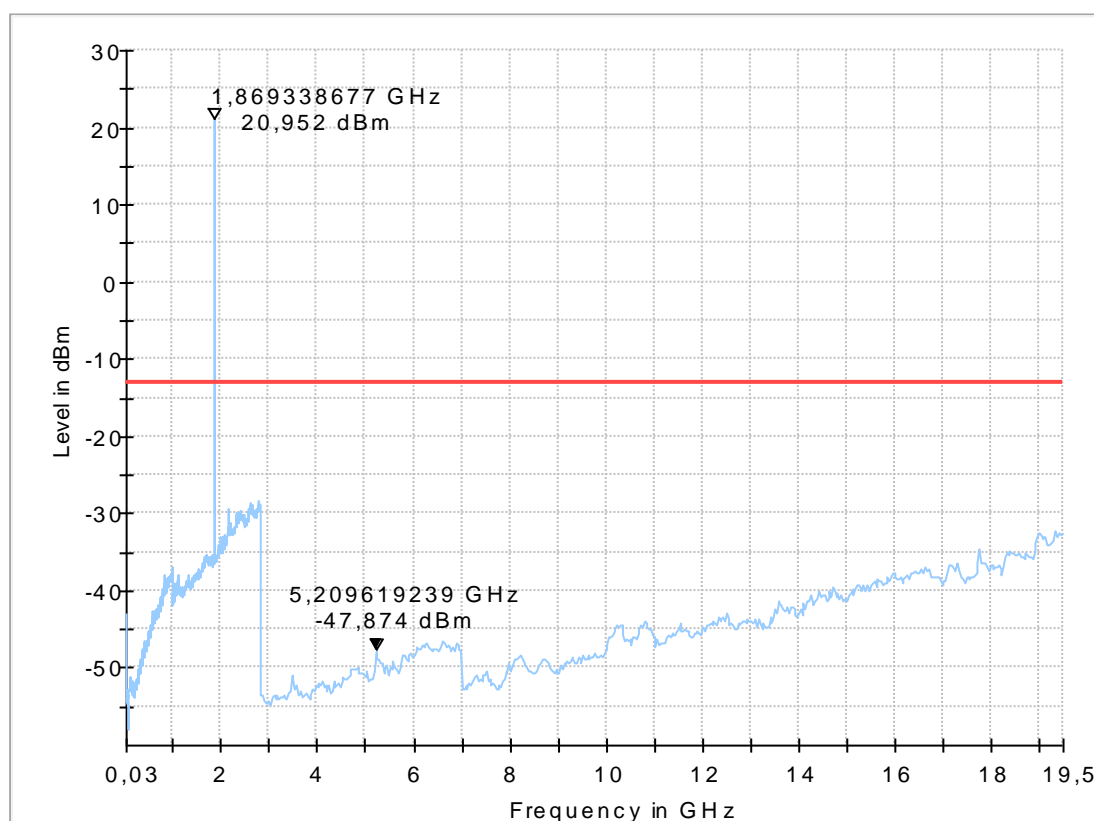
Common Information

Test Description:	Radiated Spurious Emissions LTE FDD4
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 24
Operating Mode:	20MHz_1RB low_QPSK_Ch_20300
Environmental Conditions:	Humidity: 35%rH; Temperature: 22°C
Operator:	SRa

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	66-10777-001
HW Version:	9134G05
SW Version:	17.02.S.016
Serial Number:	2950006922
Connected Interfaces:	Main wiring + DTNA Antenna
Power Supply:	24V DC

Full Spectrum



1.5. Spurious emissions radiated (LTE Band 5)

1.5.1. Magnetic field strength radiated (LTE Band 5)

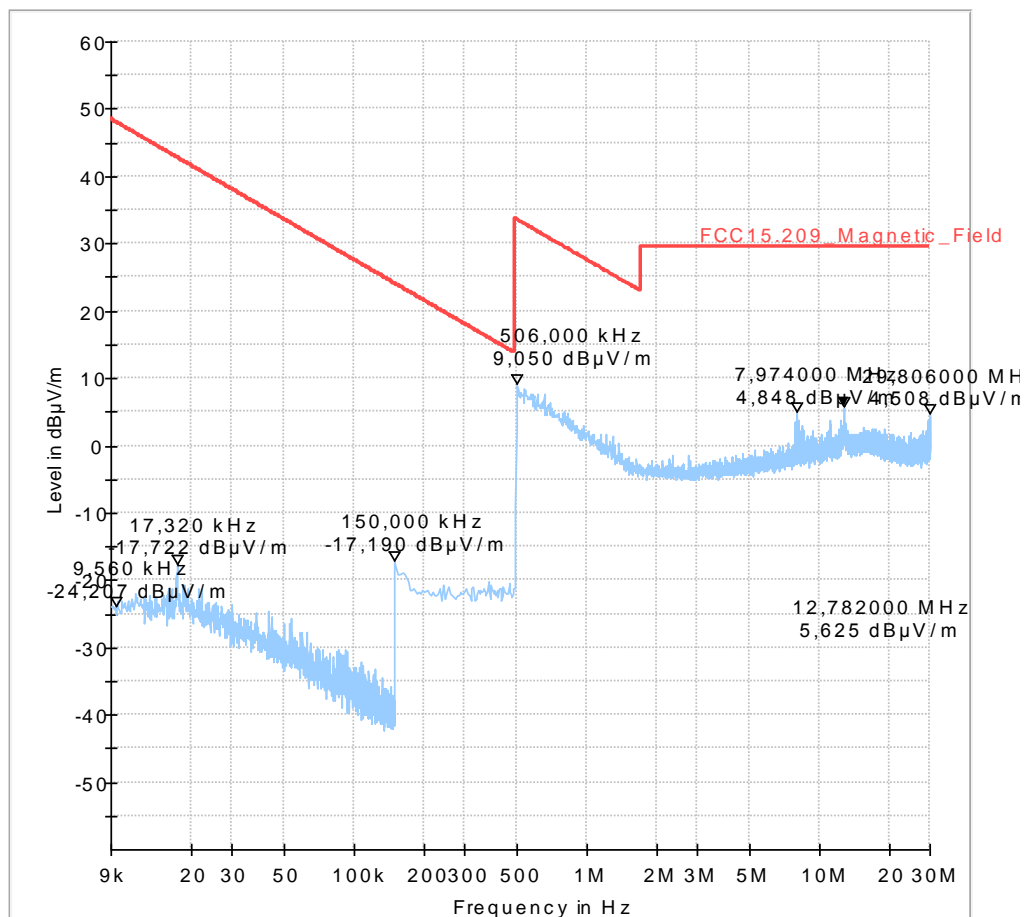
2.21_RSE_R_Ch20425_BW_5

Common Information

Test Description:	Magnetic Field Strength Measurement related to 30/300m distance
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3m measurement distance
Version of Testsoftware	EMC32 V9.25.0
Distance Correction	used accord. table, pls. see test report
Technical Data	Please see page 2 for detailed data of measurement setup
REc. antenna (pre-scan)	height 1.00 m, parallel and 90° to EUT polarisation
Used Filter	bypass
Test specification	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operating Mode	BW_5MHz_1RB_high_QPSK_CH_20425
Operator	SLo
Operating Conditions	Humidity: 35%rH; Temperature: 20°C
Power during Test	24V DC

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	66-10777-001
HW Version:	9134G05
SW Version:	17.02.S.016
Serial Number:	2950006922
Connected Interfaces:	Main wiring + DTNA Antenna
Power Supply:	24V DC



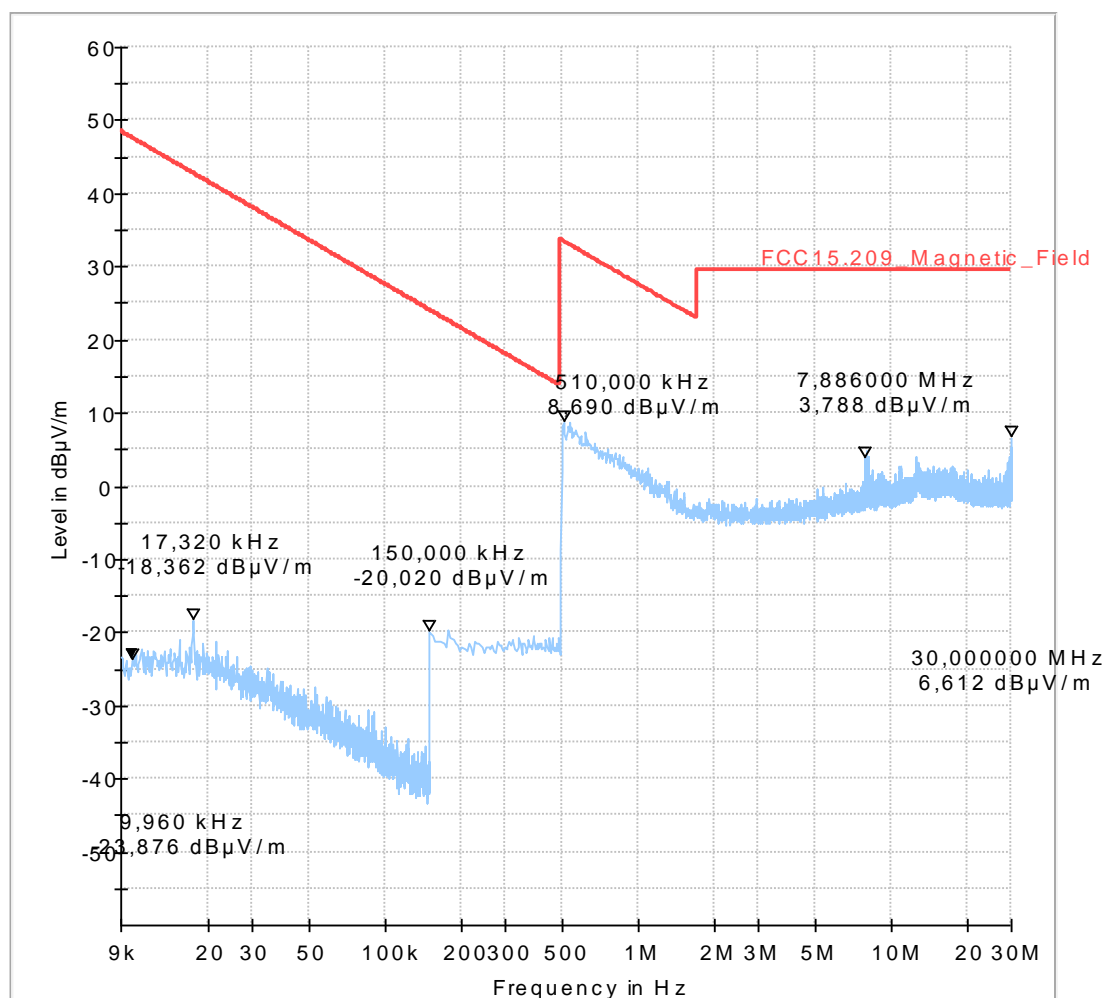
2.22_RSE_R_Ch20525_BW_10

Common Information

Test Description:	Magnetic Field Strength Measurement related to 30/300m distance
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3m measurement distance
Version of Testsoftware	EMC32 V9.25.0
Distance Correction	used accord. table, pls. see test report
Technical Data	Please see page 2 for detailed data of measurement setup
REc. antenna (pre-scan)	height 1.00 m, parallel and 90° to EUT polarisation
Used Filter	bypass
Test specification	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operating Mode	BW_10MHz_1RB_low_QPSK_CH_20525
Operator	SLo
Operating Conditions	Humidity: 35%rH; Temperature: 20°C
Power during Test	24V DC

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	66-10777-001
HW Version:	9134G05
SW Version:	17.02.S.016
Serial Number:	2950006922
Connected Interfaces:	Main wiring + DTNA Antenna
Power Supply:	24 V DC



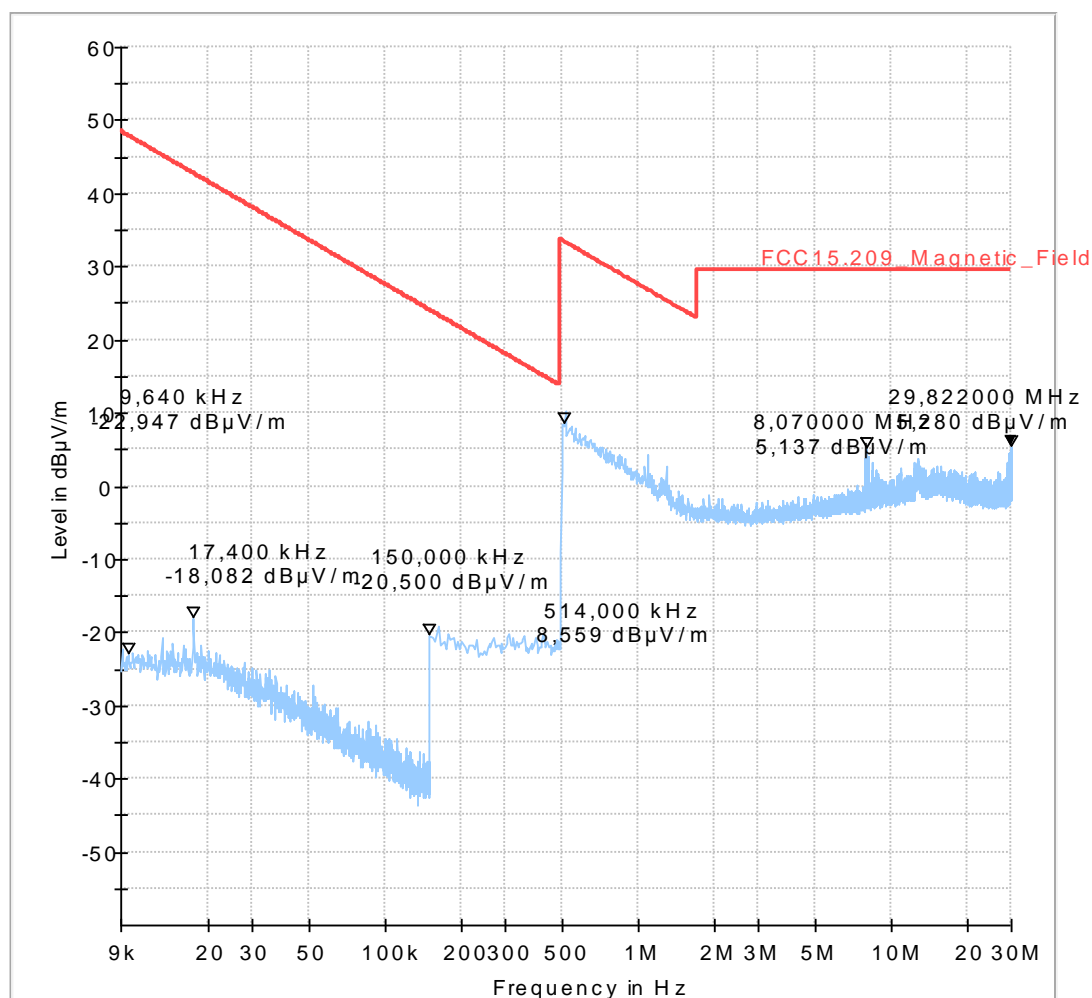
2.23_RSE_R_Ch20643_BW_5

Common Information

Test Description:	Magnetic Field Strength Measurement related to 30/300m distance
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3m measurement distance
Version of Testsoftware	EMC32 V9.25.0
Distance Correction	used accord. table, pls. see test report
Technical Data	Please see page 2 for detailed data of measurement setup
REc. antenna (pre-scan)	height 1.00 m, parallel and 90° to EUT polarisation
Used Filter	bypass
Test specification	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operating Mode	BW_5MHz_1RB_high_QPSK_CH_20643
Operator	SLo
Operating Conditions	Humidity: 35%rH; Temperature: 20°C
Power during Test	24V DC

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	66-10777-001
HW Version:	9134G05
SW Version:	17.02.S.016
Serial Number:	2950006922
Connected Interfaces:	Main wiring + DTNA Antenna
Power Supply:	24V DC



1.5.2. Emissions above 30MHz (LTE Band 5)

8.21_RSE_R_Ch20425_BW_5

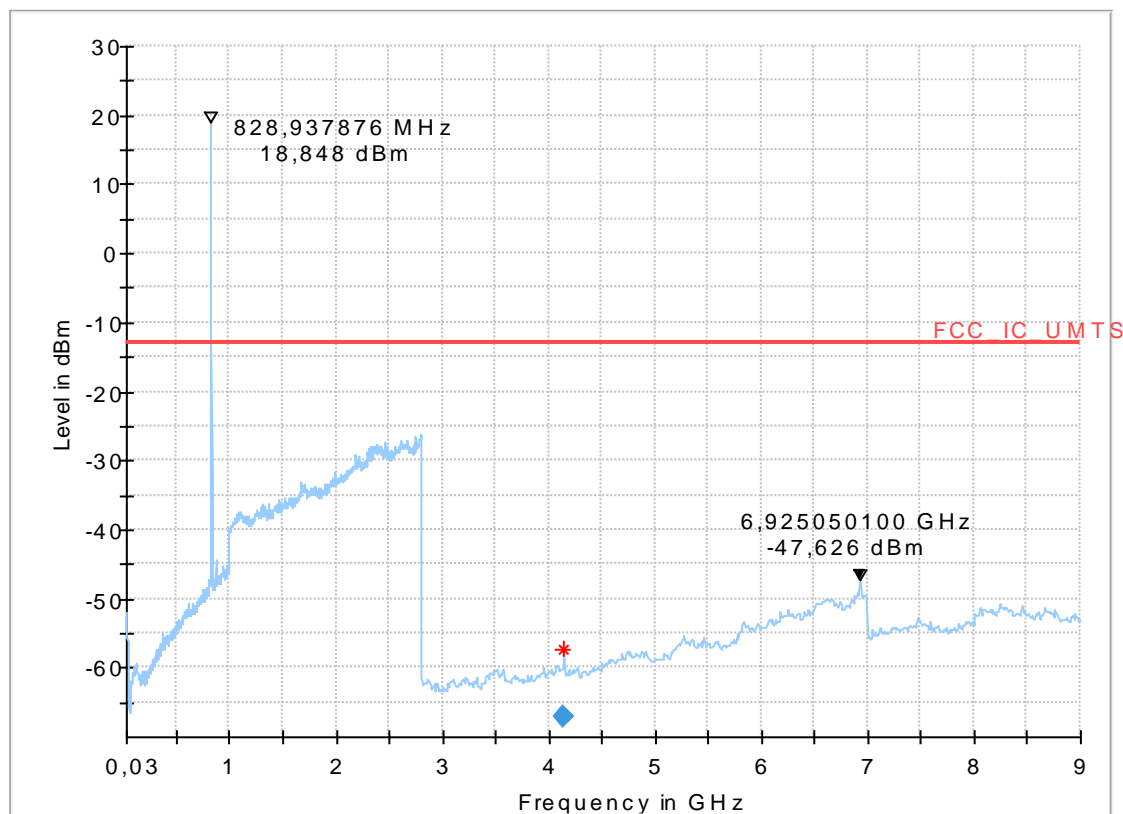
Common Information

Test Description:	Radiated Spurious Emissions LTEF DD 5
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917(a)
Operating Mode:	5MHz_1high_QPSK_Ch_20425
Environmental Conditions:	Humidity: 35%rH; Temperature: 22°C
Operator:	RI's

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	66-10777-001
HW Version:	9134G05
SW Version:	17.02.S.016
Serial Number:	2950006922
Connected Interfaces:	Main wiring + DTNA Antenna
Power Supply:	24V DC

Full Spectrum



Final Result

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
4143.336674	-67.13	-	54.13	1000.0	100.000	H	156.0	0.0	-93.4

8.22_RSE_R_Ch20525_BW_10

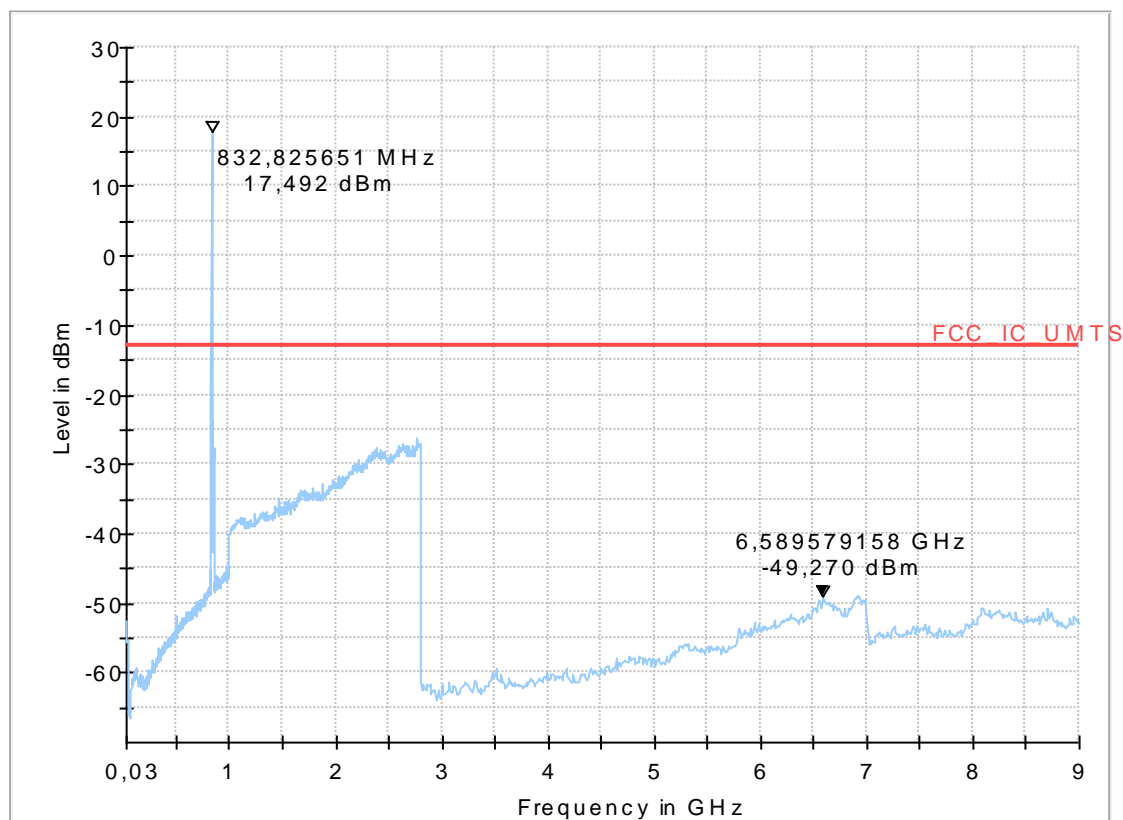
Common Information

Test Description:	Radiated Spurious Emissions LTE FDD 5
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917(a)
Operating Mode:	10MHz_1low_QPSK_Ch_20525
Environmental Conditions:	Humidity: 35%rH; Temperature: 22°C
Operator:	RI

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	66-10777-001
HW Version:	9134G05
SW Version:	17.02.S.016
Serial Number:	2950006922
Connected Interfaces:	Main wiring + DTNA Antenna
Power Supply:	24V DC

Full Spectrum



8.23_RSE_R_Ch20643_BW_5

Common Information

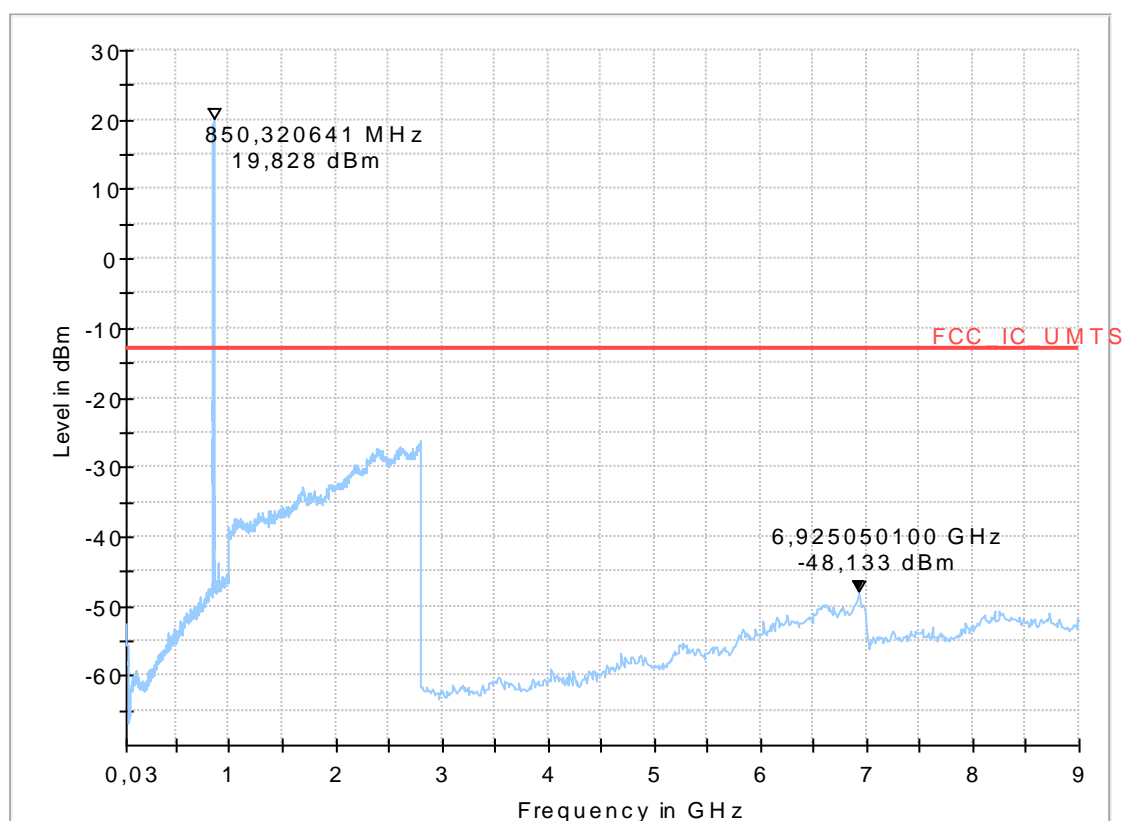
Test Description:	Radiated Spurious Emissions LTE FDD 5
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917(a)
Operating Mode:	5MHz_1high_QPSK_Ch_20625
Environmental Conditions:	Humidity: 35%rH; Temperature: 22°C
Operator:	RI

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	66-10777-001

HW Version:	9134G05
SW Version:	17.02.S.016
Serial Number:	2950006922
Connected Interfaces:	Main wiring + DTNA Antenna
Power Supply:	24V DC

Full Spectrum



1.6. Spurious emissions radiated (LTE Band 7)

1.6.1. Magnetic field strength radiated (LTE Band 7)

Diagram No. 2.31_RSE_R_Ch20850_BW_20

Common Information

Test description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Testsoftware:	EMC32 V9.25.0
Distance correction:	used accord. table, pls. see test report
Technical Data:	Please see page 2 for detailed data of measurement setup
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Used filter:	bypass
Test specification:	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operator:	RI
Operating conditions:	BW20MHz_RB1high_QPSK_Ch20850
Power during tests:	24V DC
Comment 1:	Channel low

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	66-10777-001
HW Version:	9134G05
SW Version:	17.02.S.016
Serial Number:	2950006922
Connected Interfaces:	Main wiring + DTNA Antenna
Power Supply:	24V DC

Full Spectrum

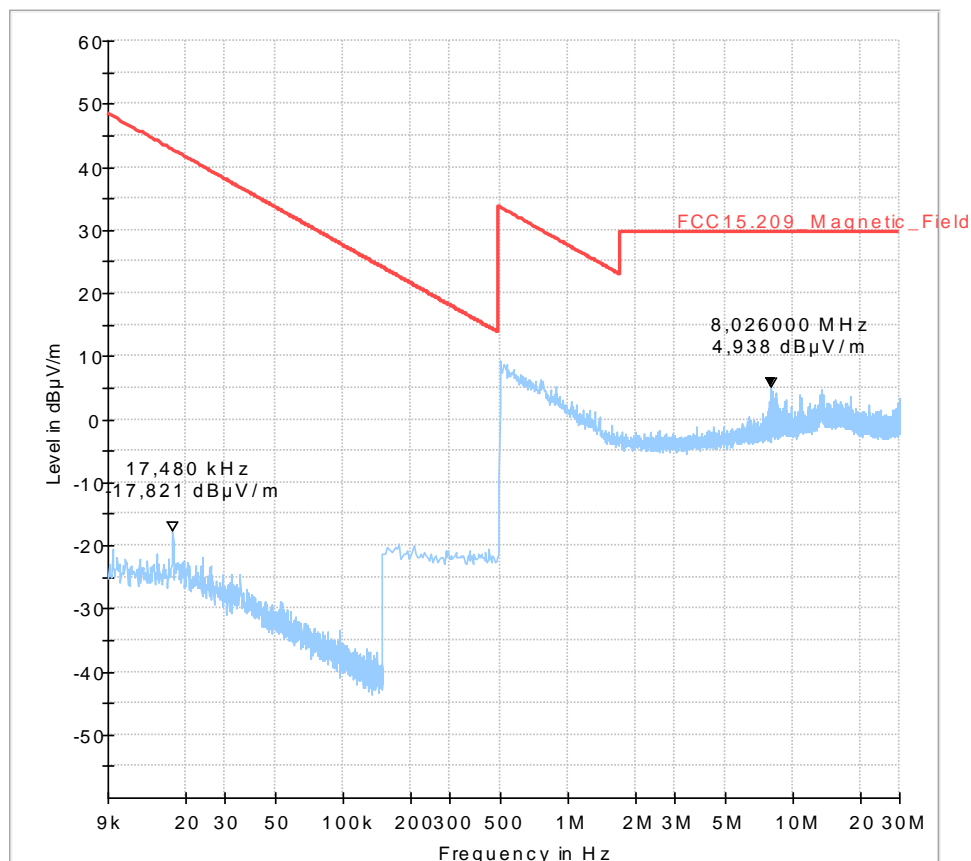


Diagram No. 2.32_RSE_R_Ch21100_BW_15

Common Information

Test description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Testsoftware:	EMC32 V9.25.0
Distance correction:	used accord. table, pls. see test report
Technical Data:	Please see page 2 for detailed data of measurement setup
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Used filter:	bypass
Test specification:	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operator:	RI's
Operating conditions:	BW15MHz_RB1Low_QPSK_Ch21100
Power during tests:	24V DC
Comment 1:	Channel middle

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	66-10777-001
HW Version:	9134G05
SW Version:	17.02.S.016
Serial Number:	2950006922
Connected Interfaces:	Main wiring + DTNA Antenna
Power Supply:	24V DC

Full Spectrum

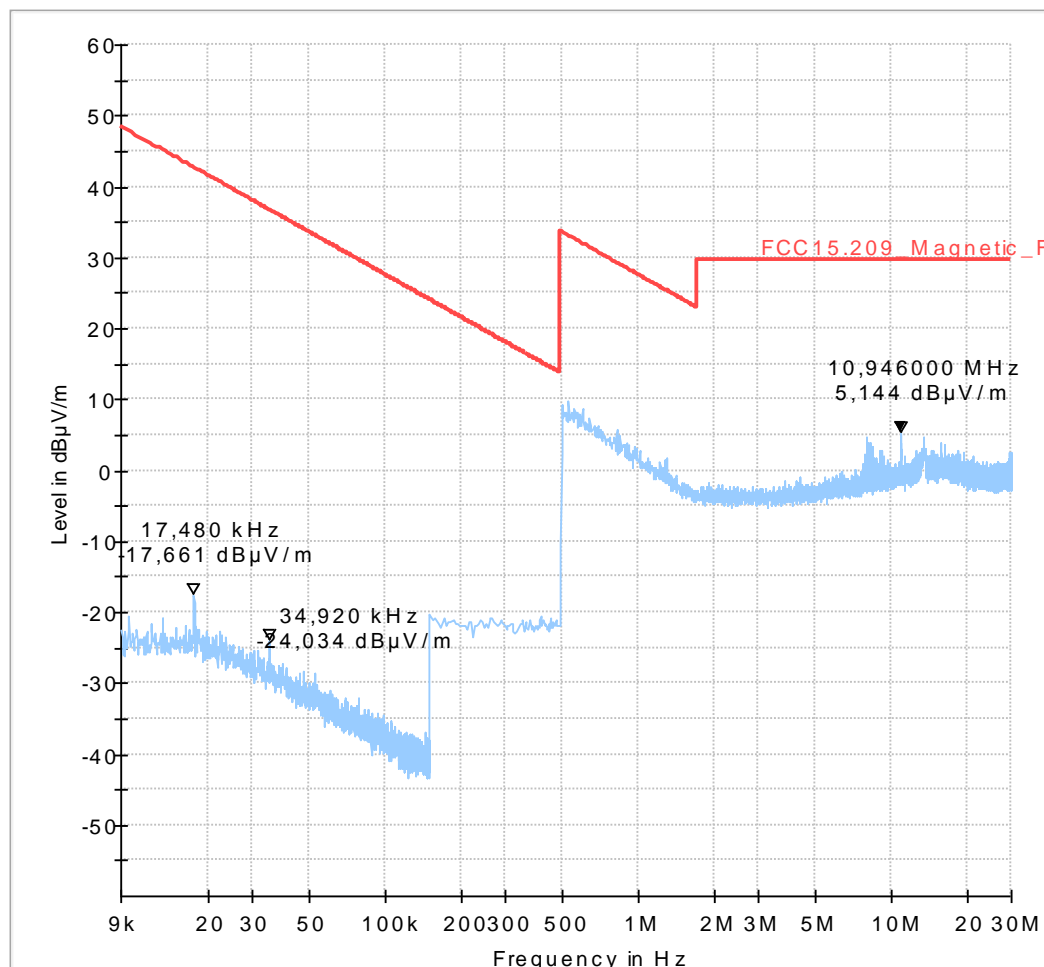


Diagram No. 2.33_RSE_R_Ch21425_BW_5

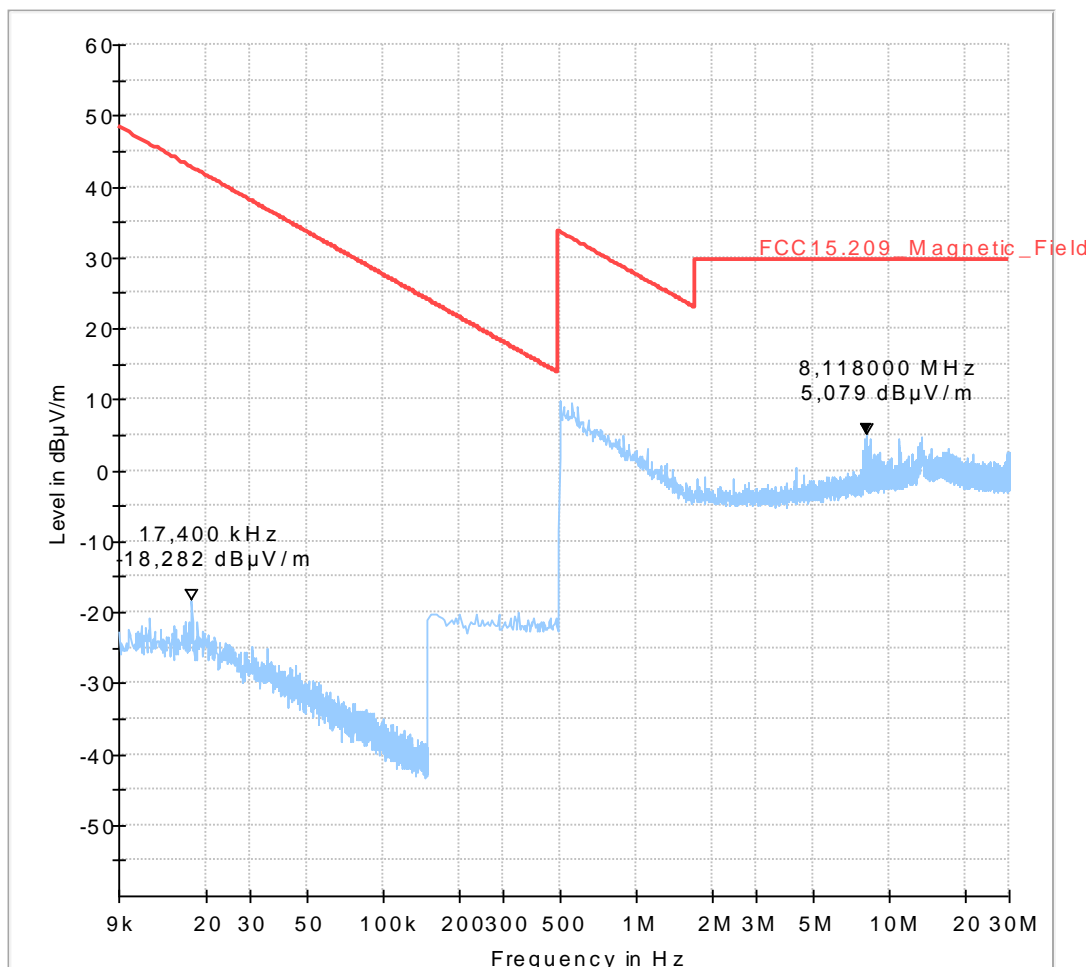
Common Information

Test description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Testsoftware:	EMC32 V9.25.0
Distance correction:	used accord. table, pls. see test report
Technical Data:	Please see page 2 for detailed data of measurement setup
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Used filter:	bypass
Test specification:	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operator:	RI
Operating conditions:	BW5MHz_RB1Low_QPSK_Ch21425
Power during tests:	24V DC
Comment 1:	Channel high

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	66-10777-001
HW Version:	9134G05
SW Version:	17.02.S.016
Serial Number:	2950006922
Connected Interfaces:	Main wiring + DTNA Antenna
Power Supply:	24V DC

Full Spectrum



1.6.2. Emissions 30MHz - 2.8GHz (LTE Band 7)

8.31_RSE_R_Ch20850_BW_20

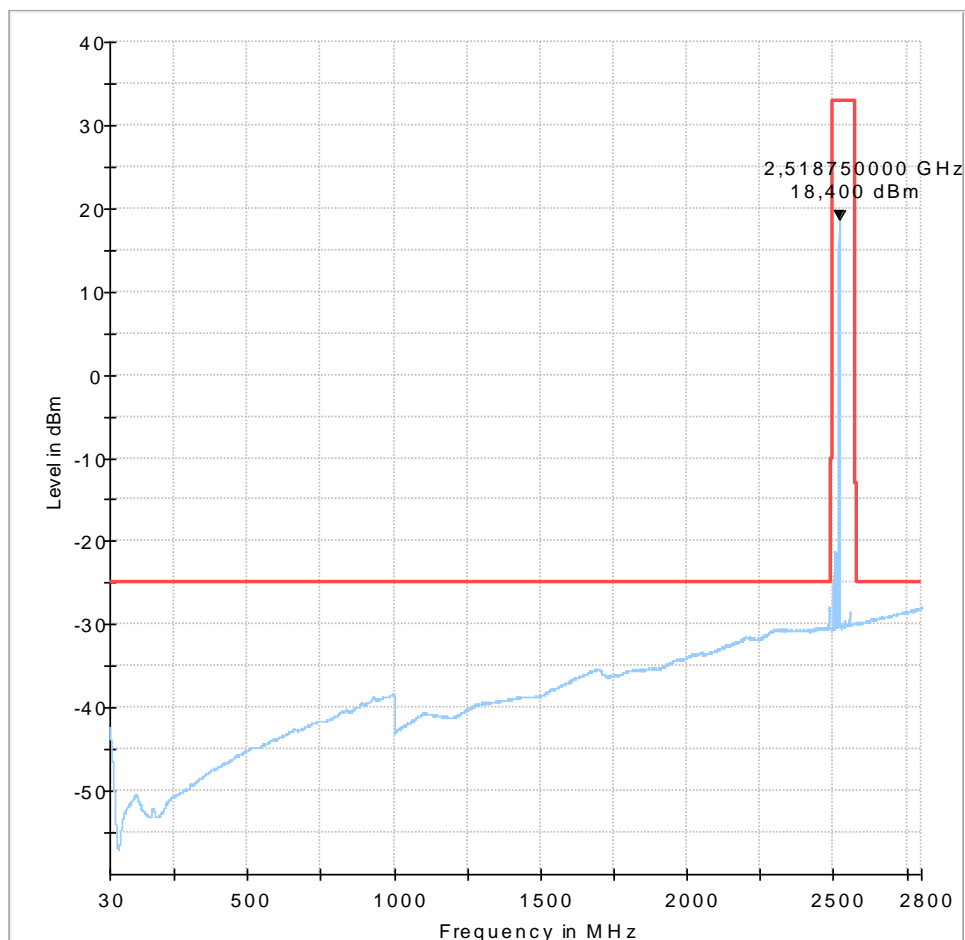
Common Information

Test Description:	Band-Edge low - Radiated Spurious Emissions LTE Band 7
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 27.53(l)(4) Mobile stations limits
Operating Mode:	UE allocated channel 20850/ BW:20MHz / RB:1 / Position: high
Environmental Conditions:	Humidity: 35%rH; Temperature: 23°C
Test SW Version:	EMC32 V9.26.0
Operator:	SRa
Remarks:	

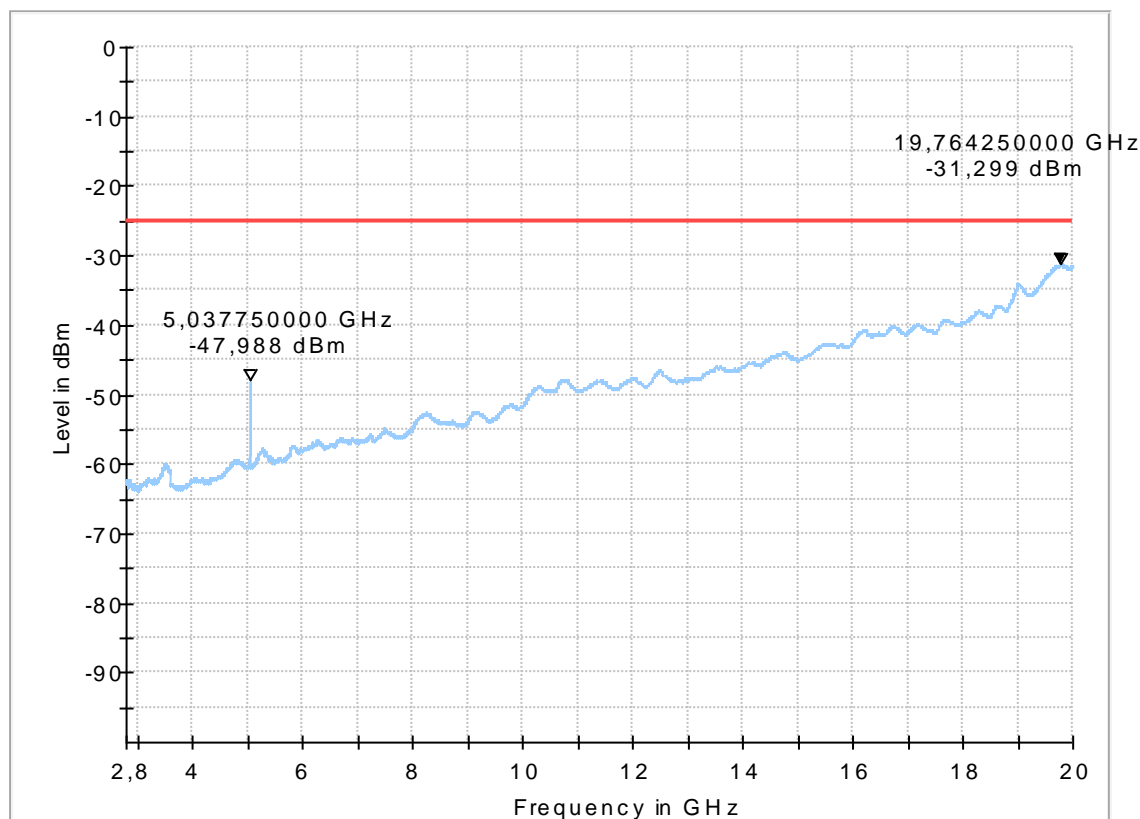
EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	66-10777-001
HW Version:	9134G05
SW Version:	17.02.S.016
Serial Number:	2950006922
Connected Interfaces:	Main wiring + DTNA Antenna
Power Supply:	24V DC

Full Spectrum



Full Spectrum



8.32_RSE_R_Ch21100_BW_15

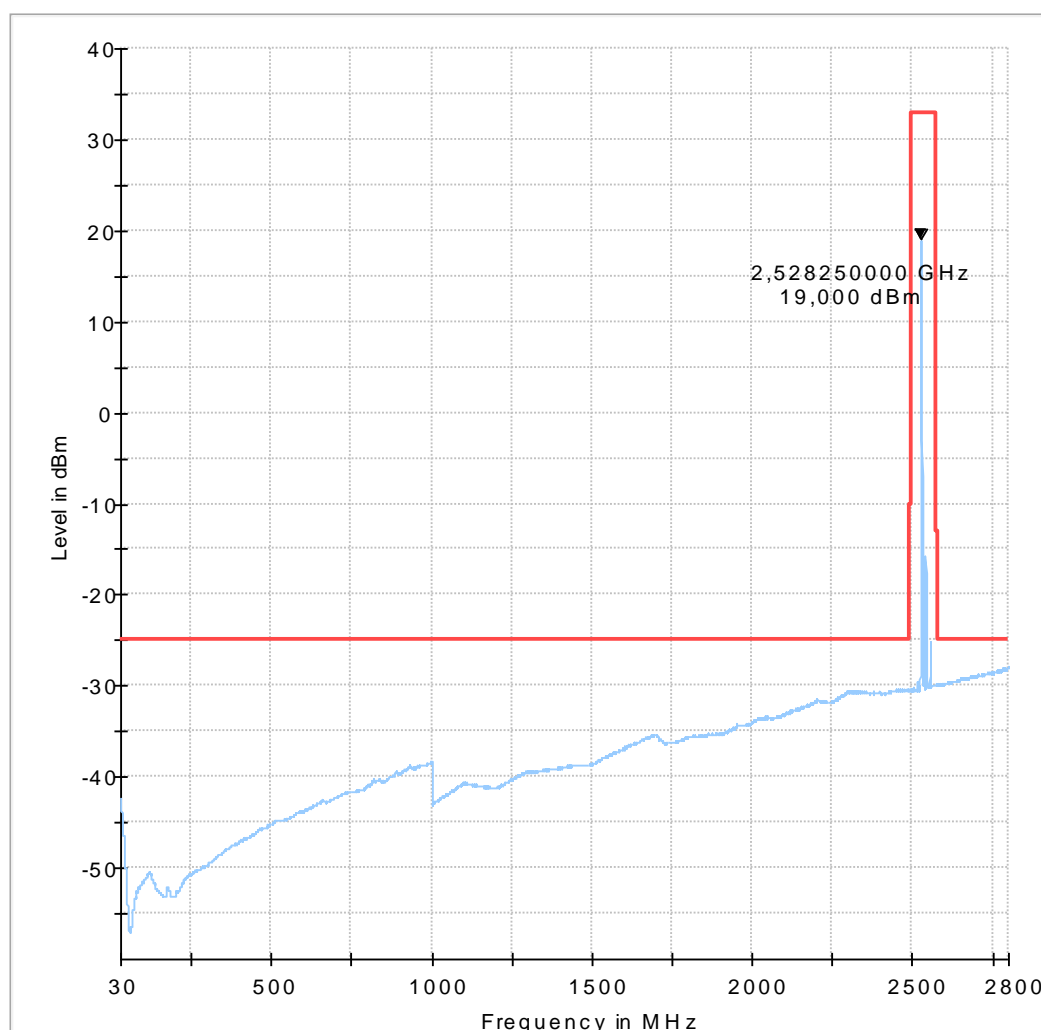
Common Information

Test Description:	Band-Edge low - Radiated Spurious Emissions LTE Band 7
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 27.53(l)(4) Mobile stations limits
Operating Mode:	UE allocated channel 21100/ BW:15MHz / RB:1 / Position: low
Environmental Conditions:	Humidity: 35%rH; Temperature: 23°C
Test SW Version:	EMC32 V9.26.0
Operator:	SRa
Remarks:	

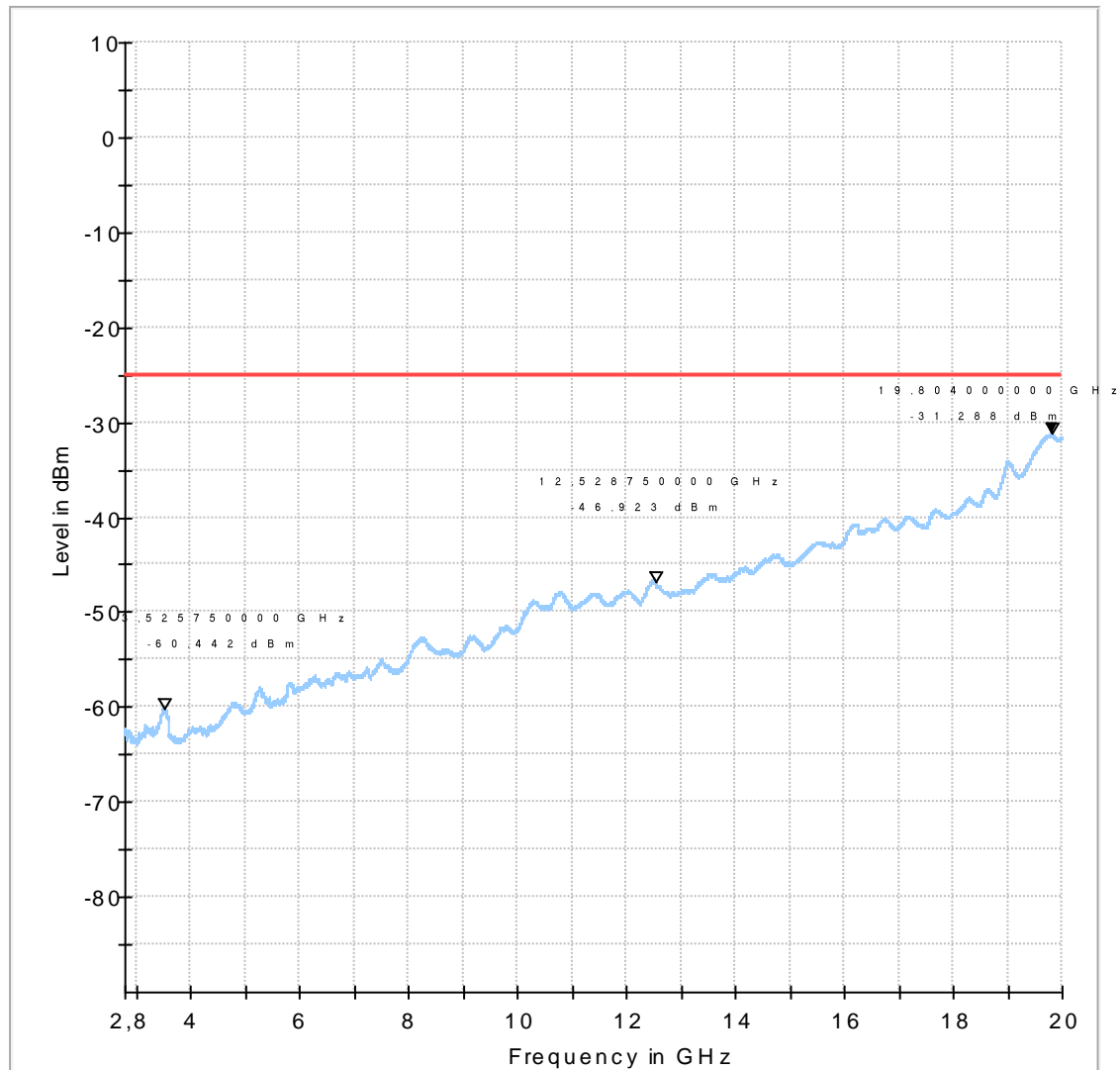
EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	66-10777-001
HW Version:	9134G05
SW Version:	17.02.S.016
Serial Number:	2950006922
Connected Interfaces:	Main wiring + DTNA Antenna
Power Supply:	24V DC

Full Spectrum



Full Spectrum



8.33_RSE_R_Ch21425_BW_5

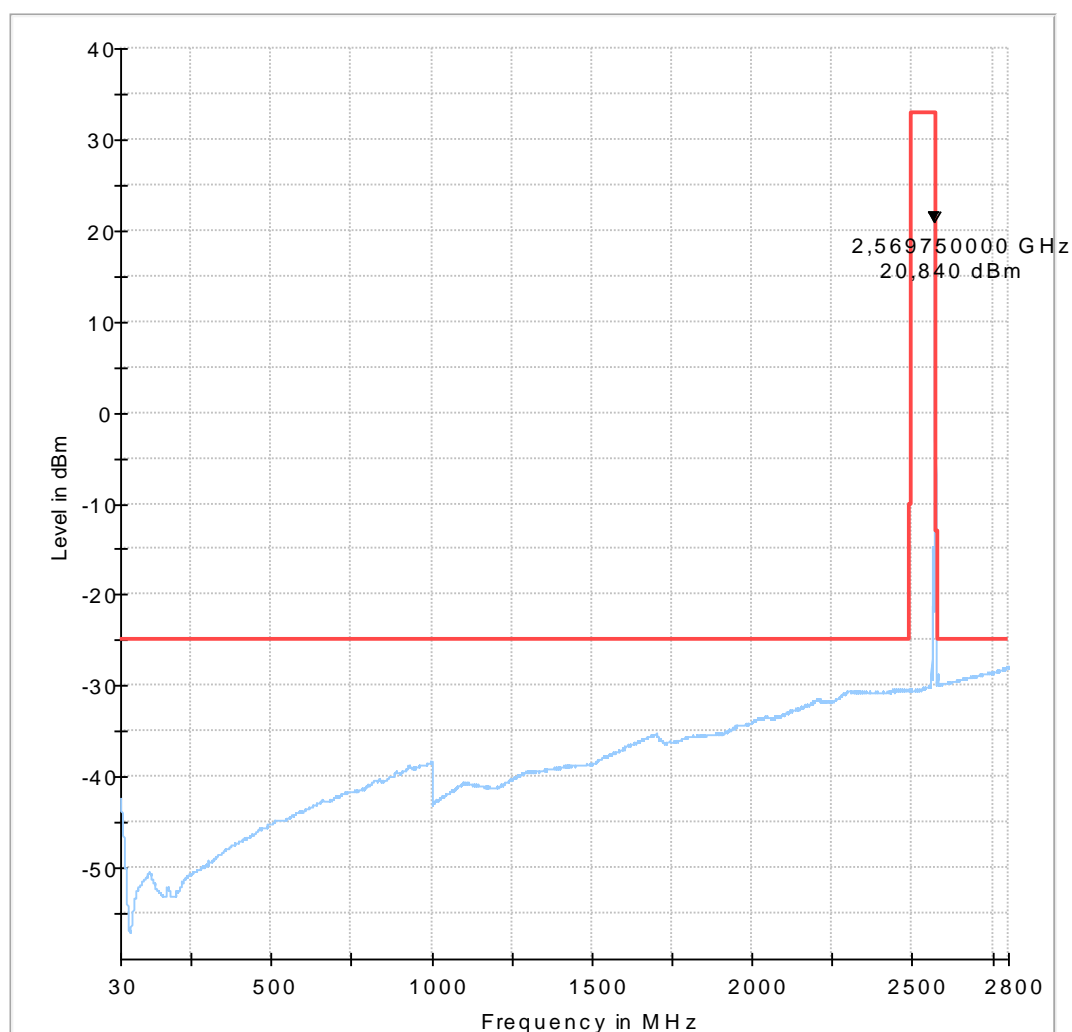
Common Information

Test Description:	Band-Edge low - Radiated Spurious Emissions LTE Band 7
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 27.53(l)(4) Mobile stations limits
Operating Mode:	UE allocated channel 21425/ BW:5MHz / RB:1 / Position: high
Environmental Conditions:	Humidity: 35%rH; Temperature: 23°C
Test SW Version:	EMC32 V9.26.0
Operator:	SRa
Remarks:	EUT - laying+standing position

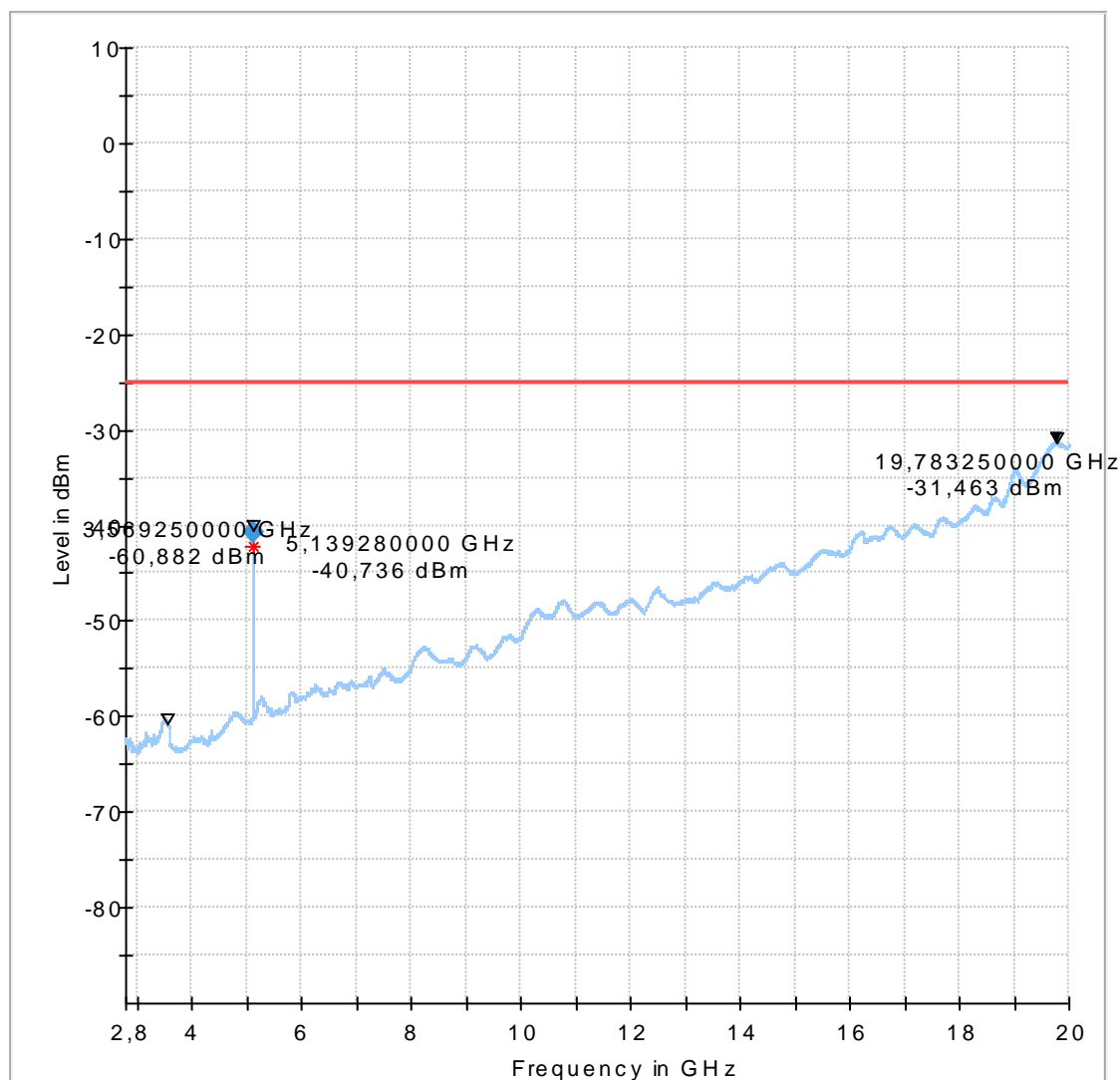
EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	66-10777-001
HW Version:	9134G05
SW Version:	17.02.S.016
Serial Number:	2950006922
Connected Interfaces:	Main wiring + DTNA Antenna
Power Supply:	24V DC

Full Spectrum



Full Spectrum



1.7. Spurious emissions radiated (LTE Band 17)

1.7.1. Magnetic field strength radiated (LTE Band 17)

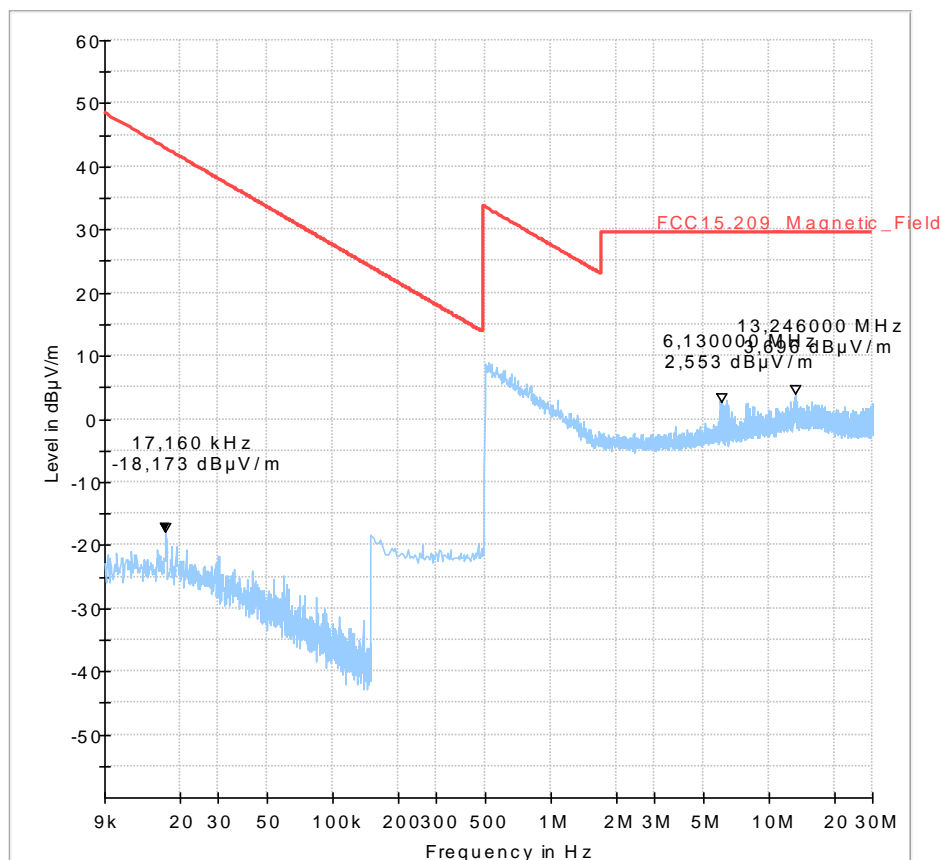
2.41_RSE_R_Ch23035_BW_5

Common Information

Test Description:	Magnetic Field Strength Measurement related to 30/300m distance
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3m measurement distance
Version of Testsoftware	EMC32 V9.25.0
Distance Correction	used accord. table, pls. see test report
Technical Data	Please see page 2 for detailed data of measurement setup
REc. antenna (pre-scan)	height 1.00 m, parallel and 90° to EUT polarisation
Used Filter	bypass
Test specification	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operating Mode	BW_5MHz_RB_HIGH_QPSK_CH_23035
Operator	DLe
Operating Conditions	Humidity: 35%rH; Temperature: 20°C
Power during Test	24V DC

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	66-10777-001
HW Version:	9134G05
SW Version:	17.02.S.016
Serial Number:	2950006922
Connected Interfaces:	Main wiring + DTNA Antenna
Power Supply:	24V DC



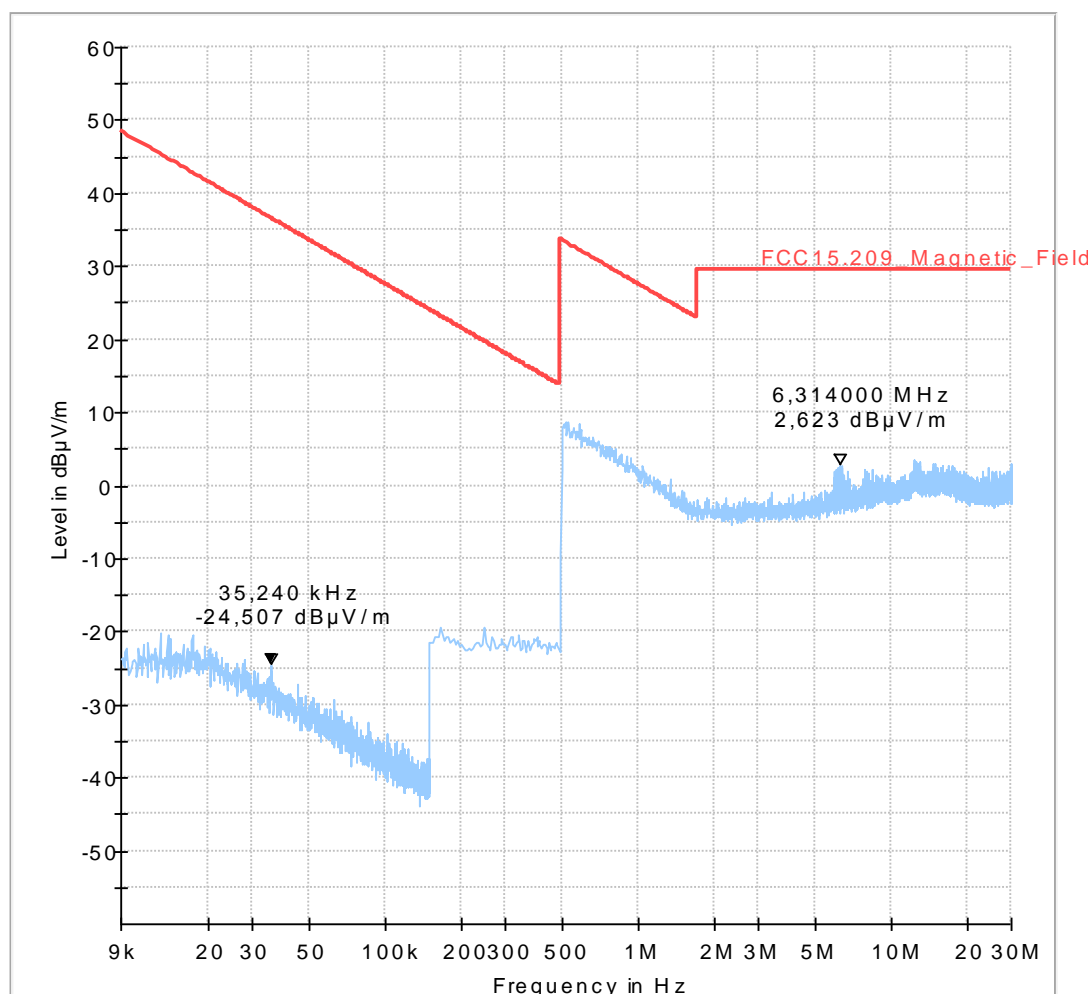
2.42_RSE_R_Ch23790_BW_10

Common Information

Test Description:	Magnetic Field Strength Measurement related to 30/300m distance
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3m measurement distance
Version of Testsoftware	EMC32 V9.25.0
Distance Correction	used accord. table, pls. see test report
Technical Data	Please see page 2 for detailed data of measurement setup
REc. antenna (pre-scan)	height 1.00 m, parallel and 90° to EUT polarisation
Used Filter	bypass
Test specification	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operating Mode	BW_10MHz_RB_LOW_QPSK_CH_23790
Operator	DLe
Operating Conditions	Humidity: 35%rH; Temperature: 20°C
Power during Test	24V DC

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	66-10777-001
HW Version:	9134G05
SW Version:	17.02.S.016
Serial Number:	2950006922
Connected Interfaces:	Main wiring + DTNA Antenna
Power Supply:	24V DC



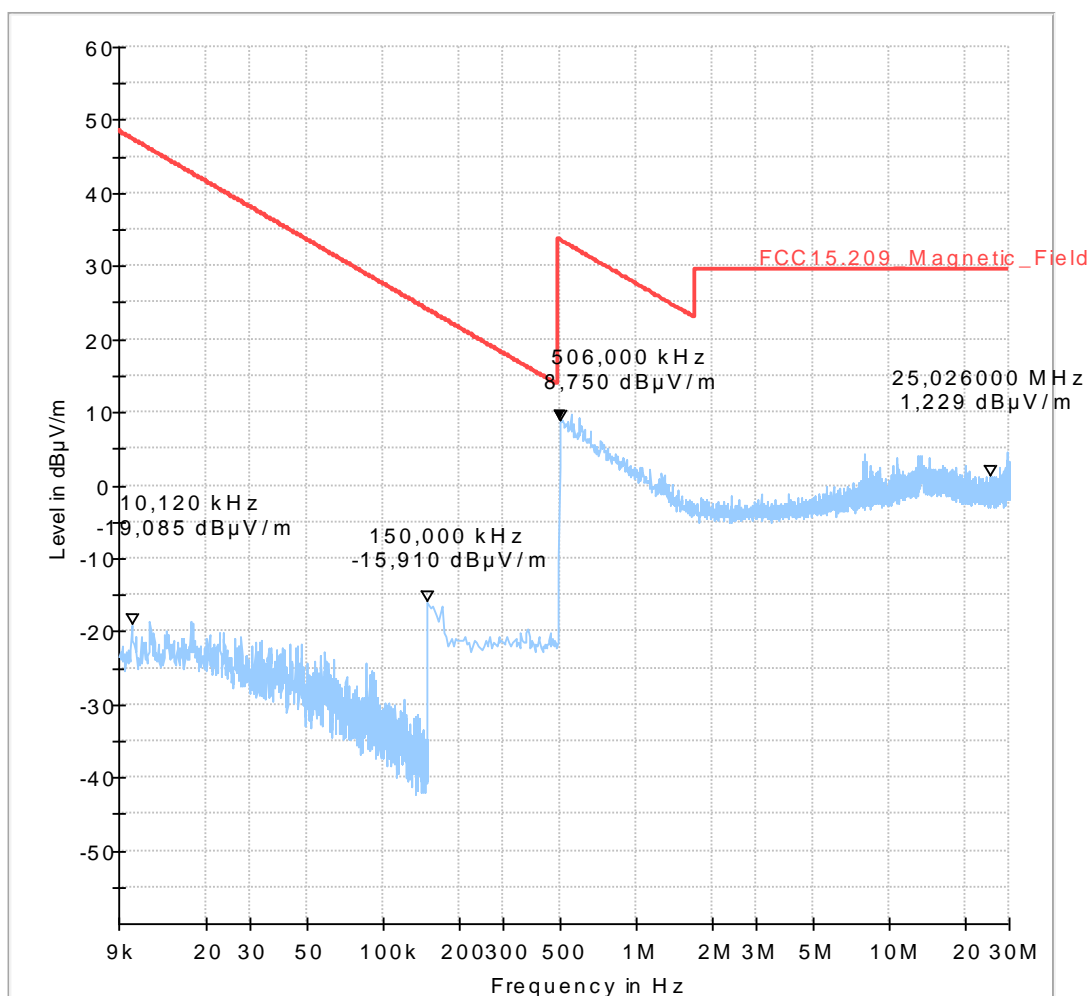
2.43_RSE_R_Ch23800_BW_10

Common Information

Test Description:	Magnetic Field Strength Measurement related to 30/300m distance
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3m measurement distance
Version of Testsoftware	EMC32 V9.25.0
Distance Correction	used accord. table, pls. see test report
Technical Data	Please see page 2 for detailed data of measurement setup
REc. antenna (pre-scan)	height 1.00 m, parallel and 90° to EUT polarisation
Used Filter	bypass
Test specification	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operating Mode	BW_10MHz_1RB_high_QPSK_CH_23800
Operator	SLo
Operating Conditions	Humidity: 35%rH; Temperature: 20°C
Power during Test	24V DC

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	66-10777-001
HW Version:	9134G05
SW Version:	17.02.S.016
Serial Number:	2950006922
Connected Interfaces:	Main wiring + DTNA Antenna
Power Supply:	24V DC



1.8. Radiated emissions – band-edge (LTE Band 2)

1.8.1. Low band-edge

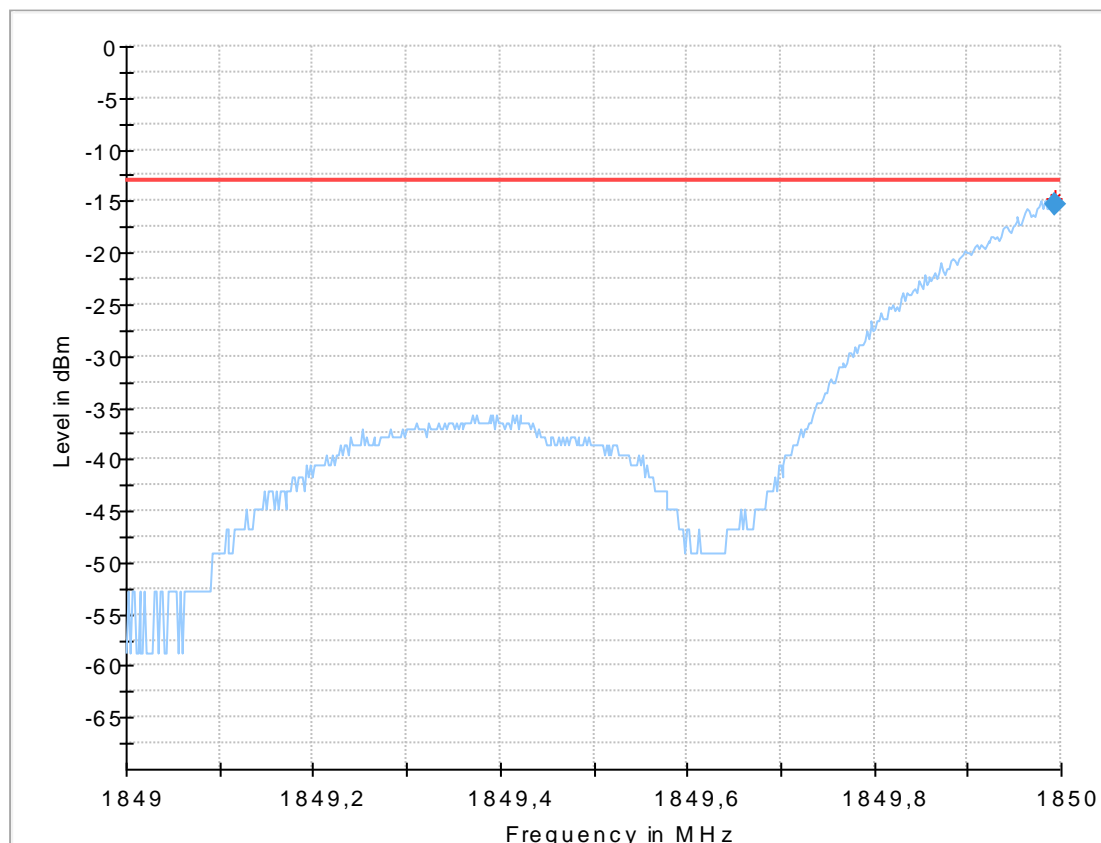
9.01_BE_LTE2_low

Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC 030417
Operating Mode:	BE 1.4MHz 1Rb low Modulation QPSK Ch 18607
Environmental Conditions:	Humidity: 35%rH; Temperature: 22°C
Operator:	SRa/TFra

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	66-10777-001
HW Version:	9134G05
SW Version:	17.02.S.016
Serial Number:	2950006922
Connected Interfaces:	Main wiring + DTNA Antenna
Power Supply:	24V DC



Final Result

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
1849.993988	-15.28	-13.00	2.28	2000.0	20.000	V	282.0	90.0	-63.1

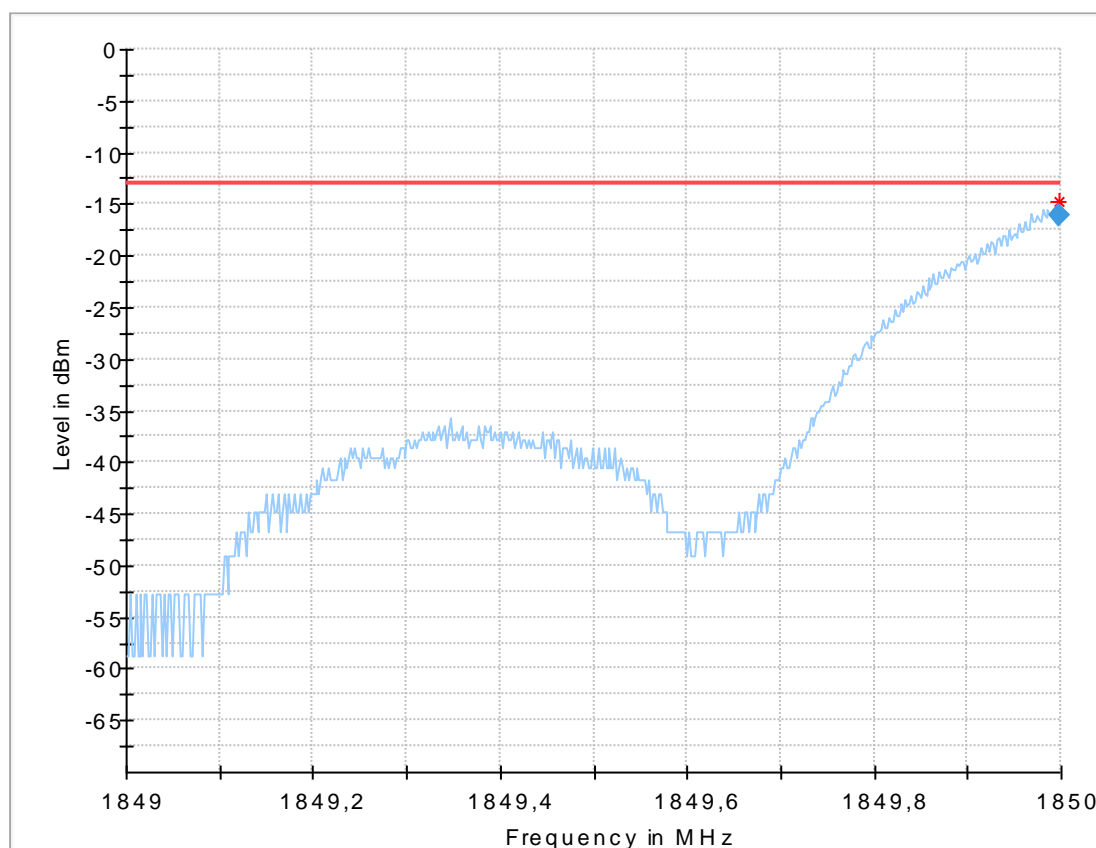
9.02_BE_LTE2_low_Ch18607_QAM

Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 24
Operating Mode:	BE 1.4MHz 1RB low Modulation QAM CH 18607
Environmental Conditions:	Humidity: 35%rH; Temperature: 22°C
Operator:	SRa/TFra

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	66-10777-001
HW Version:	9134G05
SW Version:	17.02.S.016
Serial Number:	2950006922
Connected Interfaces:	Main wiring + DTNA Antenna
Power Supply:	24V DC



Final Result

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
1849.997996	-16.14	-13.00	3.14	2000.0	20.000	H	269.0	0.0	-63.1

9.05_BE_LTE2_low_Ch18650_QAM

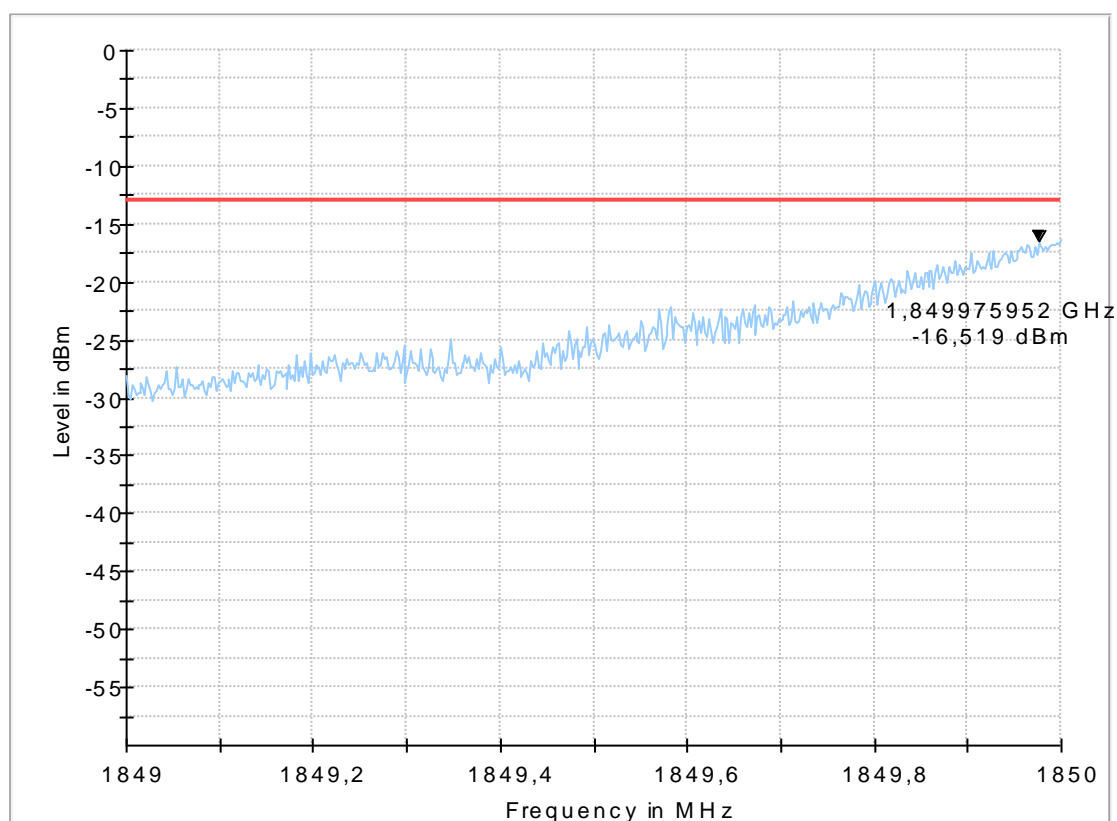
Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 24
Operating Mode:	BE 10 MHz / 50 RB low / Modulation QAM / CH 18650
Environmental Conditions:	Humidity: 35%rH; Temperature: 22°C
Operator:	RI

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	66-10777-001
HW Version:	9134G05
SW Version:	17.02.S.016
Serial Number:	2950006922
Connected Interfaces:	Main wiring + DTNA Antenna
Power Supply:	24V DC

Full Spectrum



9.06_BE_LTE2_low_Ch18650_QPSK

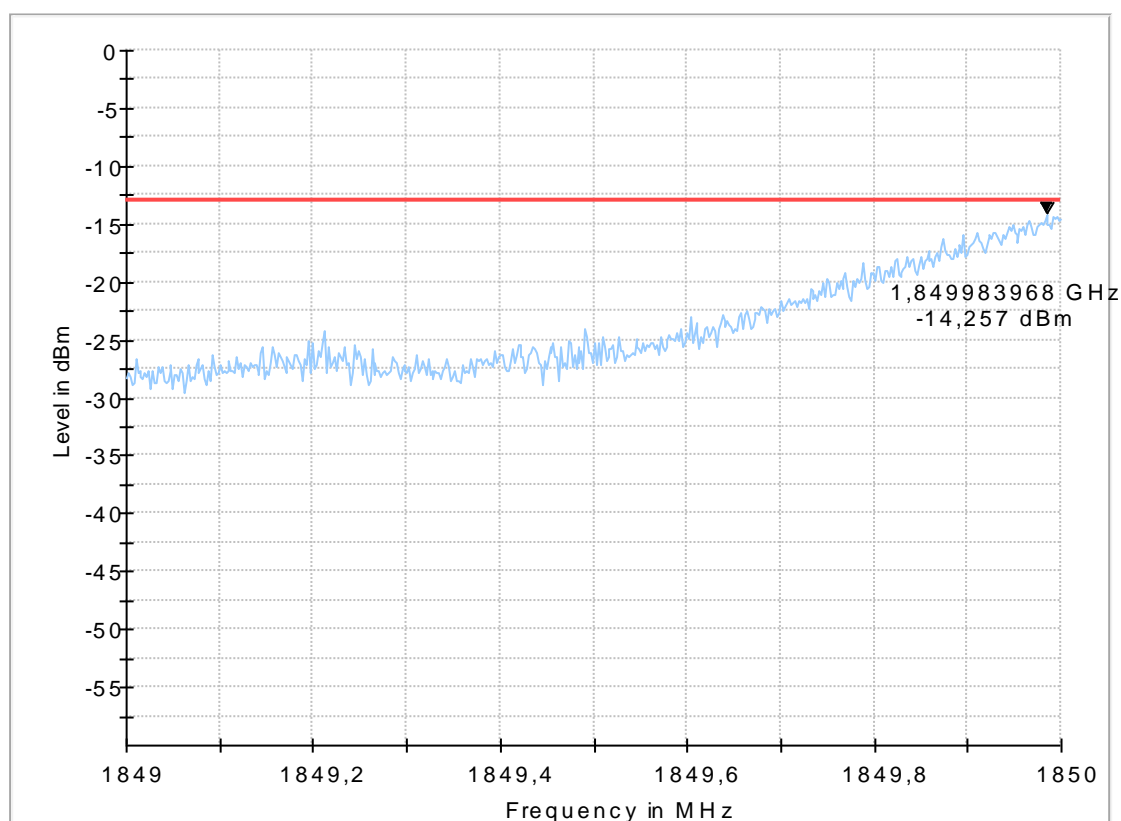
Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 24
Operating Mode:	BE 10 MHz / 50 RB low / Modulation QPSK / CH 18650
Environmental Conditions:	Humidity: 35%rH; Temperature: 22°C
Operator:	RI

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	66-10777-001
HW Version:	9134G05
SW Version:	17.02.S.016
Serial Number:	2950006922
Connected Interfaces:	Main wiring + DTNA Antenna
Power Supply:	24V DC

Full Spectrum



1.8.2. High band-edge

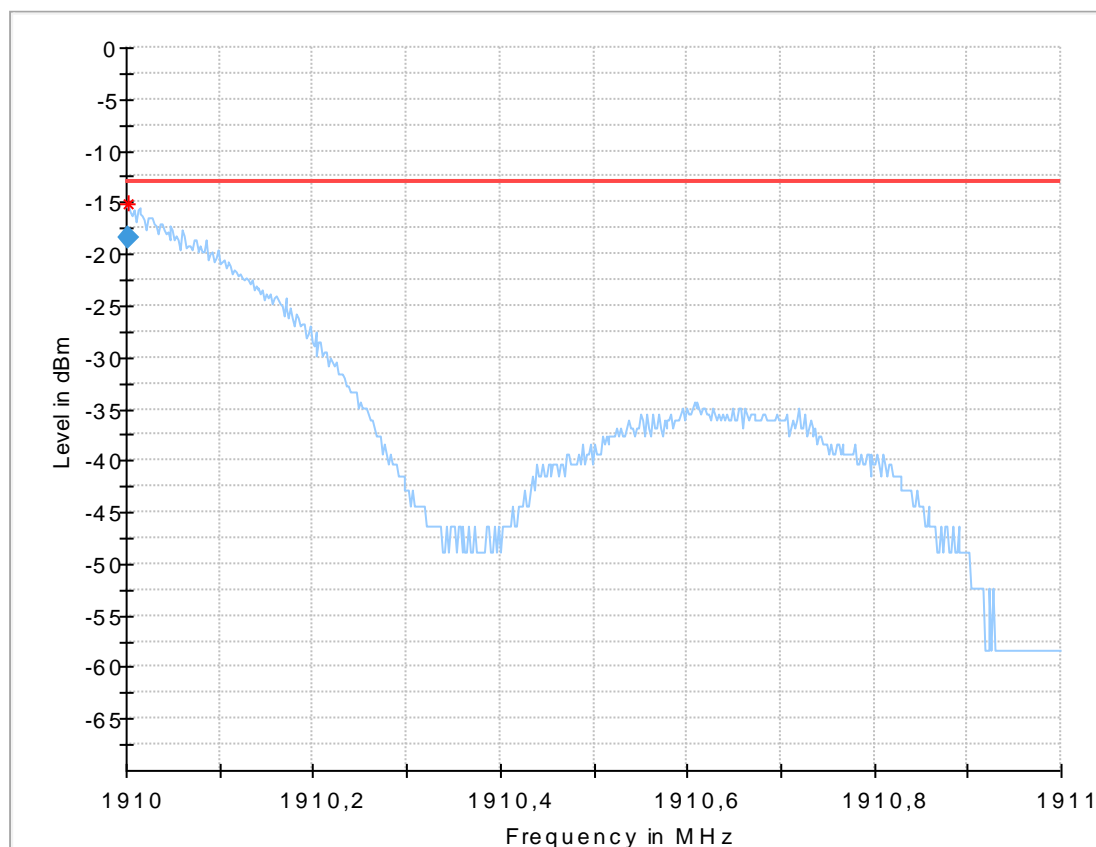
9.03_BE_LTE2_high_Ch19175_QAM

Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 24
Operating Mode:	BE 1,4 MHz / 1RB high / Modulation QAM / CH 19175
Environmental Conditions:	Humidity: 35%rH; Temperature: 22°C
Operator:	SRa/TFra

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	66-10777-001
-----	-----
HW Version:	9134G05
SW Version:	17.02.S.016
Serial Number:	2950006922
Connected Interfaces:	Main wiring + DTNA Antenna
Power Supply:	24V DC



Final Result

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
1910.002004	-18.41	-13.00	5.41	2000.0	20.000	H	276.0	0.0	-62.8

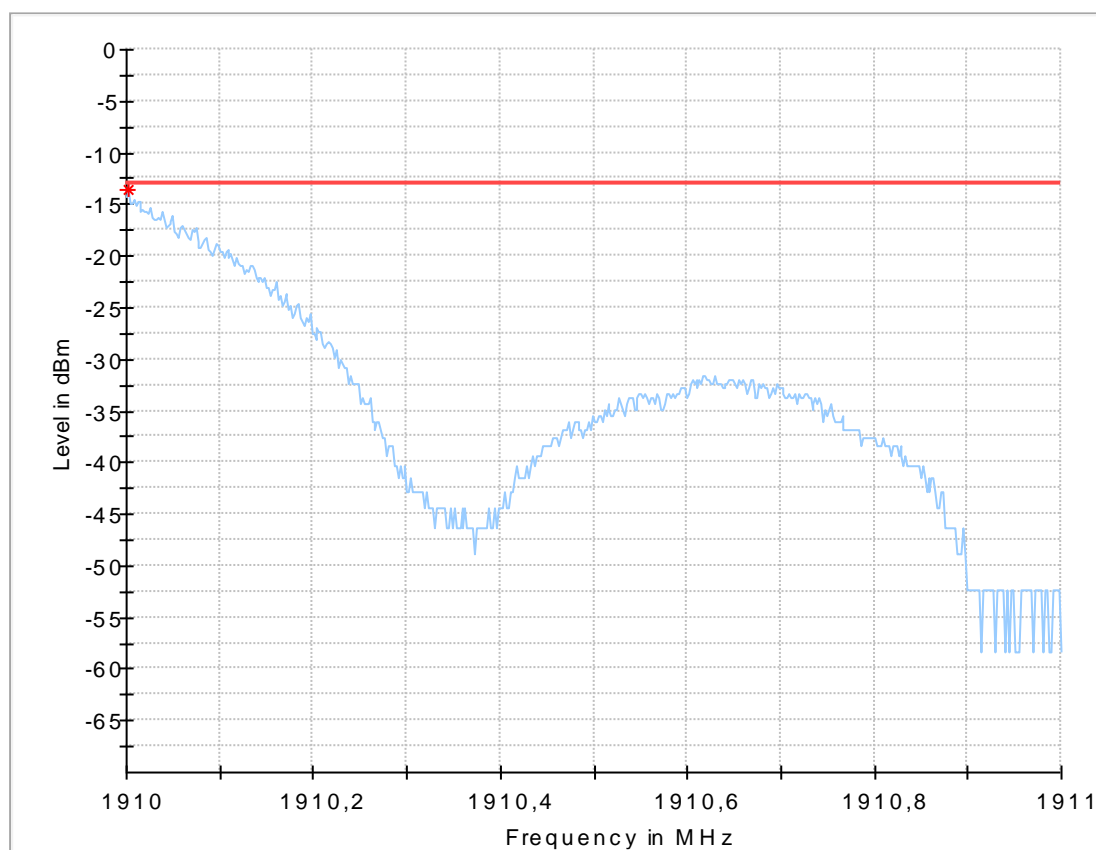
9.04_BE_LTE2_high_Ch19175_QPSK

Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 24
Operating Mode:	BE 1,4 MHz / 1RB high / Modulation QPSK / CH 19175
Environmental Conditions:	Humidity: 35%rH; Temperature: 22°C
Operator:	SRa/TFra

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	66-10777-001
-----	-----
HW Version:	9134G05
SW Version:	17.02.S.016
Serial Number:	2950006922
Connected Interfaces:	Main wiring + DTNA Antenna
Power Supply:	24V DC



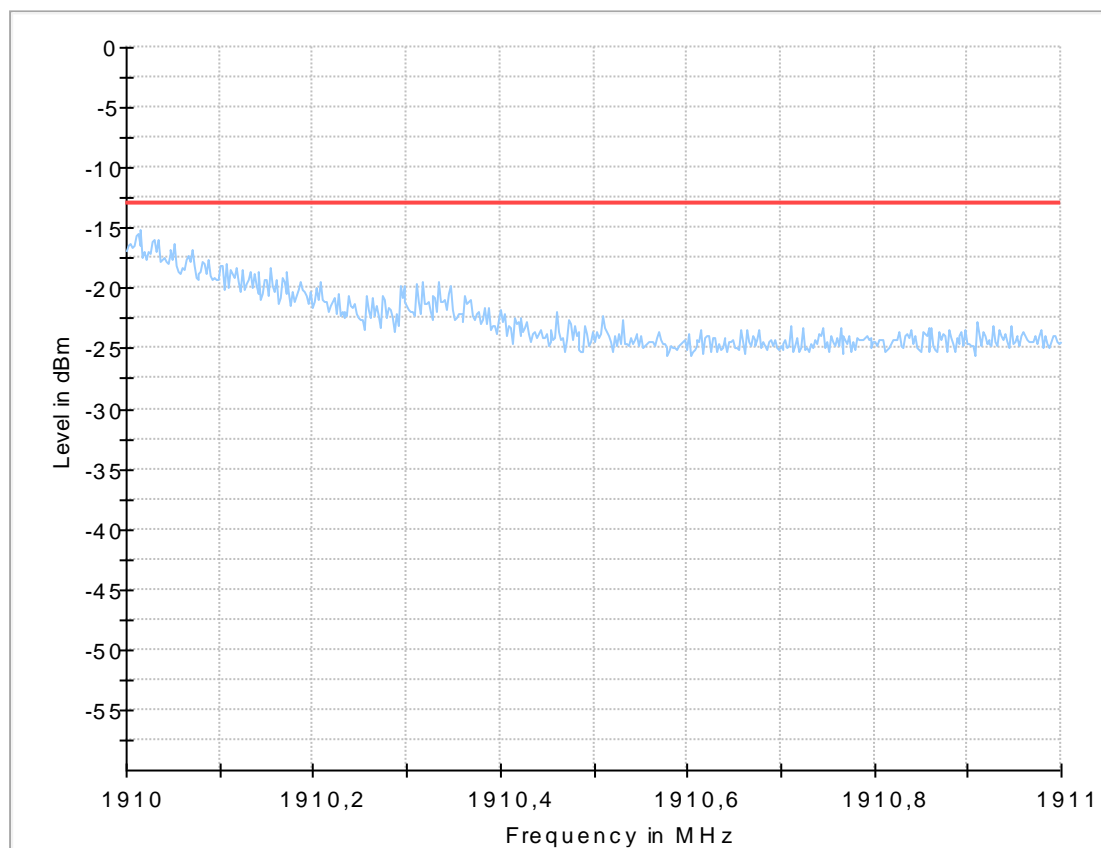
9.07_BE_LTE2_high_Ch19150_QAM

Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 24
Operating Mode:	BE 10 MHz / 50RB / Modulation QAM / CH 19150
Environmental Conditions:	Humidity: 35%rH; Temperature: 22°C
Operator:	SRa/TFra

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	66-10777-001
-----	-----
HW Version:	9134G05
SW Version:	17.02.S.016
Serial Number:	2950006922
Connected Interfaces:	Main wiring + DTNA Antenna
Power Supply:	24V DC



9.08_BE_LTE2_high_Ch19150_QPSK

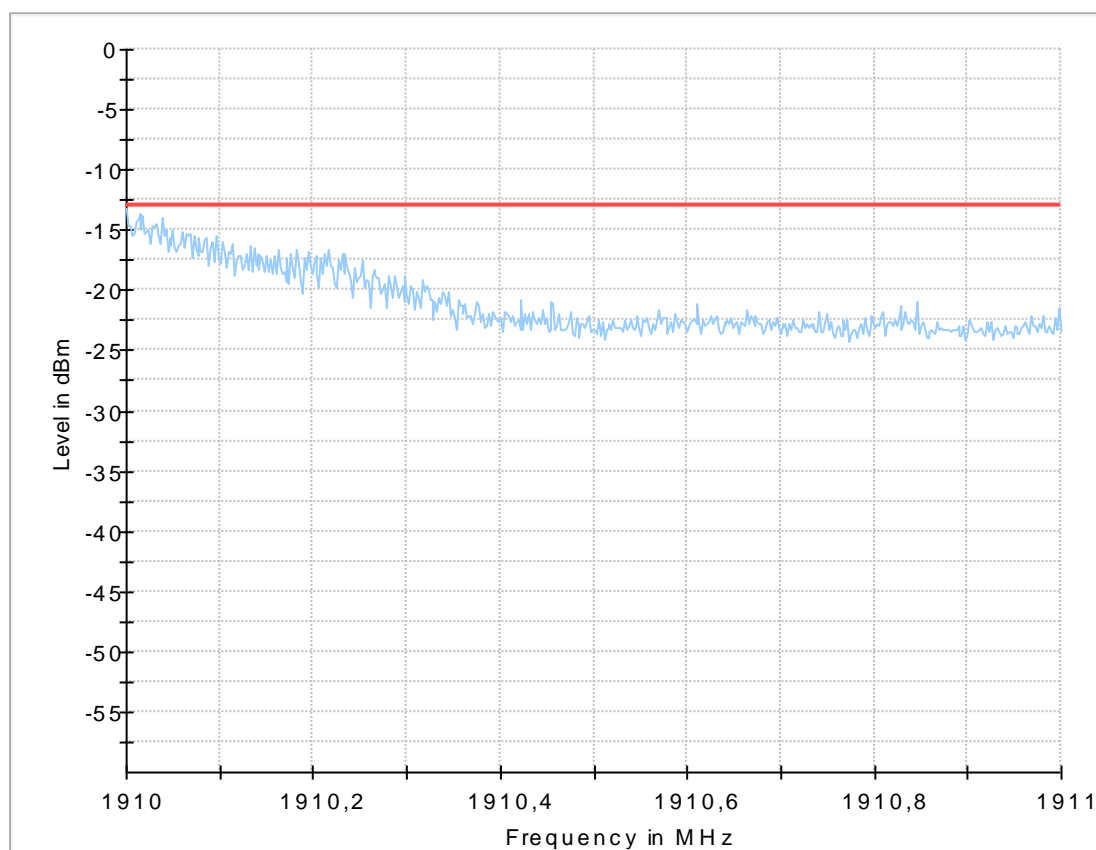
Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 24
Operating Mode:	BE 10 MHz / 50RB / Modulation QPSK / CH 19150
Environmental Conditions:	Humidity: 35%rH; Temperature: 22°C
Operator:	SRa/TFra

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	66-10777-001

HW Version:	9134G05
SW Version:	17.02.S.016
Serial Number:	2950006922
Connected Interfaces:	Main wiring + DTNA Antenna
Power Supply:	24V DC



1.9. Radiated emissions – band-edge (LTE Band 4)

1.9.1. Low Band-Edge

9.10_BE_LTE4_1RB_Low_CH19965_QPSK

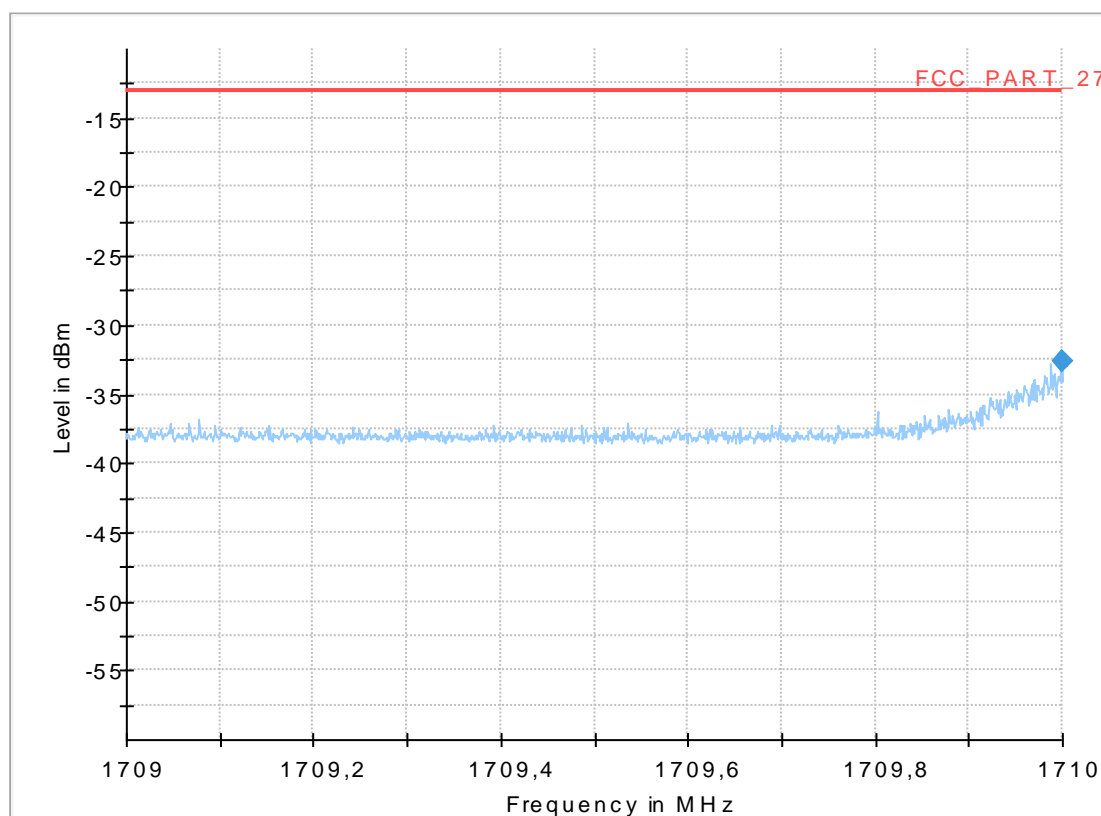
Common Information

Test Description:	Radiated Band Edge Compliance LTE B4
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 27
Operating Mode:	Continuous TX, BW 3MHz, 1RB low, QPSK, CH19965
Environment Conditions:	Humidity: 35%rH; Temperature: 23°C
Operator Name:	Klv

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	66-10777-001
HW Version:	9134G05
SW Version:	17.02.S.016
Serial Number:	2950006922
Connected Interfaces:	Main wiring + DTNA Antenna
Power Supply:	24V DC

Full Spectrum



Final Result

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Measurement Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Correction (dB)
1710.000000	-32.60	-13.00	19.60	700.0	30.000	155.0	H	328.0	0.0	-63.4

9.11_BE_LTE4_1RB_Low_CH19965_QAM

Common Information

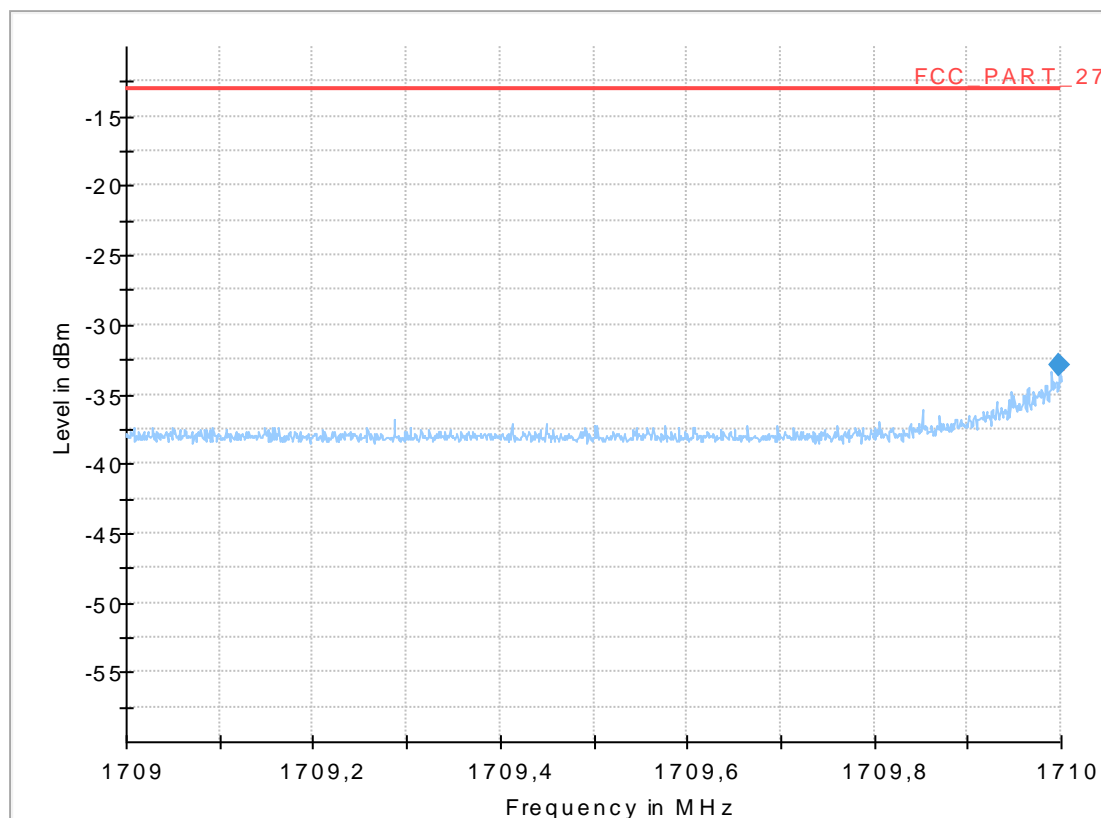
Test Description:	Radiated Band Edge Compliance LTE B4
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 27
Operating Mode:	Continuous TX, BW 3MHz, 1RB low, QAM, CH19965
Environment Conditions:	Humidity: 35%rH; Temperature: 23°C
Operator Name:	Klv

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	66-10777-001

HW Version:	9134G05
SW Version:	17.02.S.016
Serial Number:	2950006922
Connected Interfaces:	Main wiring + DTNA Antenna
Power Supply:	24V DC

Full Spectrum



Final Result

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Measurement Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Correction (dB)
1709.998000	-32.91	-13.00	19.91	700.0	30.000	155.0	H	331.0	0.0	-63.3

9.12_BE_LTE4_low_Ch19965_QPSK

Common Information

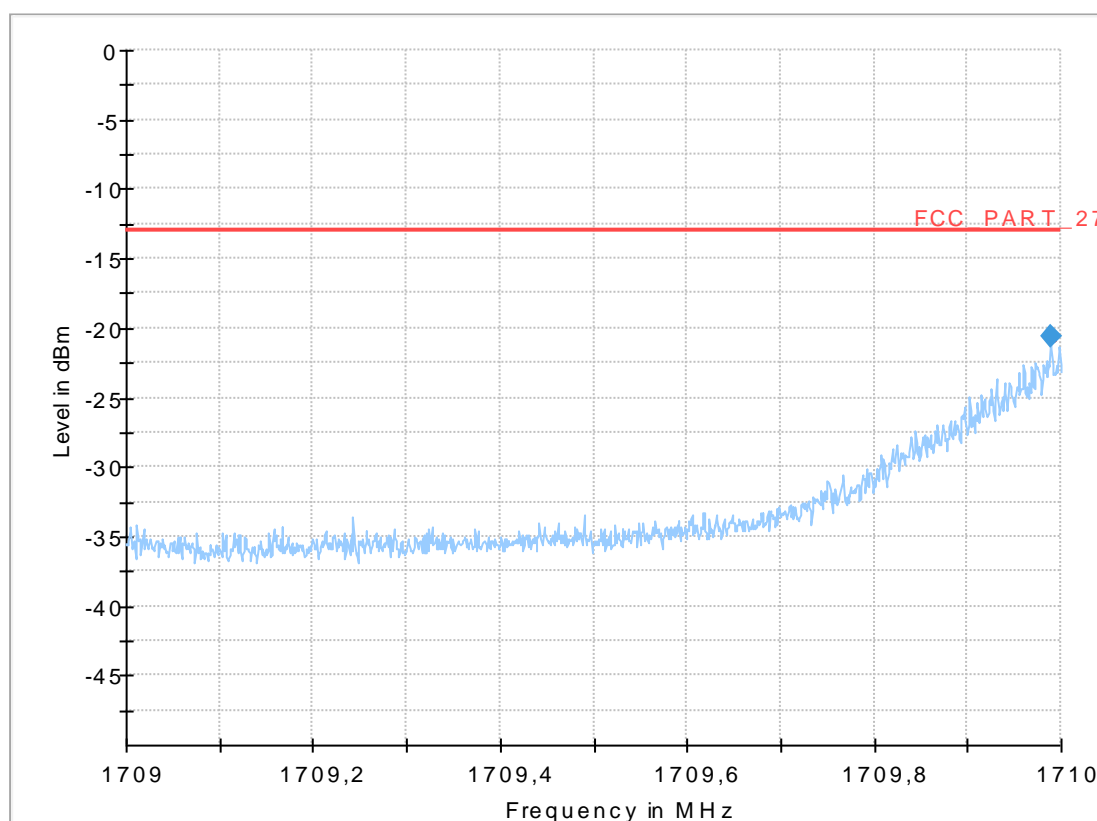
Test Description:	Radiated Band Edge Compliance LTE B4
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 27
Operating Mode:	BE3MHz_15RBlow_ModulationQPSK_CH 19965
Environmental Conditions:	Humidity: 35%rH; Temperature: 22°C
Operator:	RI

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	66-10777-001

HW Version:	9134G05
SW Version:	17.02.S.016
Serial Number:	2950006922
Connected Interfaces:	Main wiring + DTNA Antenna
Power Supply:	24V DC

Full Spectrum



Final Result

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Measurement Time	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Elevation (deg)	Correction (dB)
1709.989000	-	-13.00	7.67	700.0	30.000	155.0	V	285.0	90.0	-63.3

9.13_BE_LTE4_low_Ch19965_QAM

Common Information

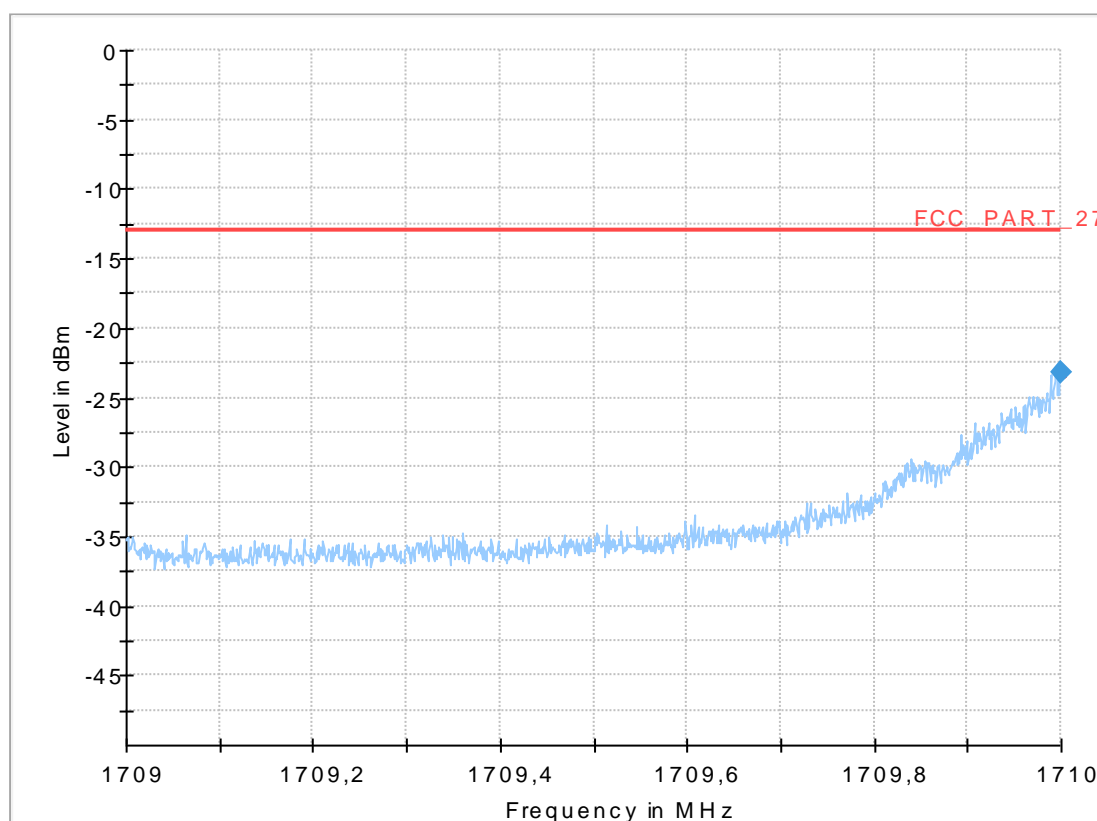
Test Description:	Radiated Band Edge Compliance LTE B4
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 27
Operating Mode:	BE3MHz_15RBlow_ModulationQAM_CH 19965
Environmental Conditions:	Humidity: 35%rH; Temperature: 22°C
Operator:	RI

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	66-10777-001

HW Version:	9134G05
SW Version:	17.02.S.016
Serial Number:	2950006922
Connected Interfaces:	Main wiring + DTNA Antenna
Power Supply:	24V DC

Full Spectrum



Final Result

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Measurement Time	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Elevation (deg)	Correction (dB)
1709.999000	-	-13.00	10.24	700.0	30.000	155.0	V	280.0	90.0	-63.3

1.9.2. High Band-Edge

9.14_BE_LTE4_high_Ch20300_QPSK

Common Information

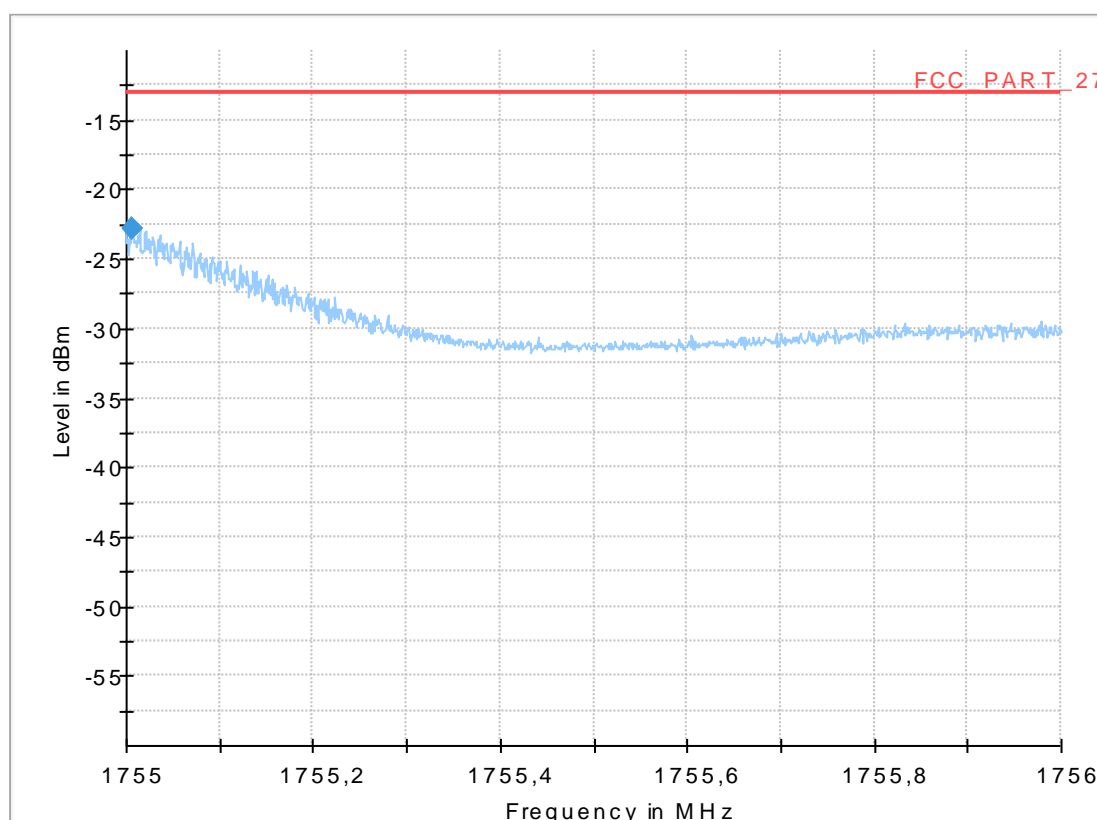
Test Description:	Radiated Band Edge Compliance LTE B4
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 27
Operating Mode:	BE20MHz_1RBhigh_ModulationQPSK_CH20300
Environmental Conditions:	Humidity: 35%rH; Temperature: 22°C
Operator:	RI

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	66-10777-001

HW Version:	9134G05
SW Version:	17.02.S.016
Serial Number:	2950006922
Connected Interfaces:	Main wiring + DTNA Antenna
Power Supply:	24V DC

Full Spectrum



Final Result

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Measurement Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Correction (dB)
1755.007000	-22.84	-13.00	9.84	700.0	200.000	155.0	V	286.0	90.0	-63.6

9.15_BE_LTE4_high_Ch20300_QAM

Common Information

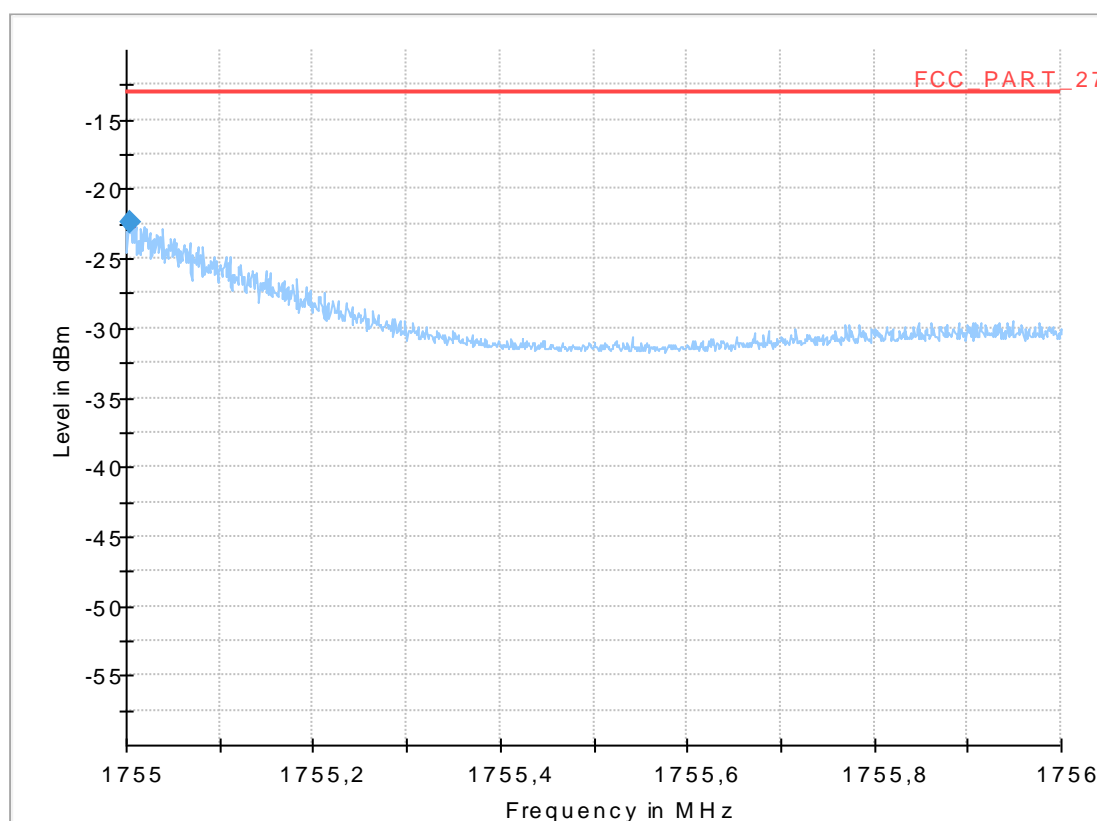
Test Description:	Radiated Band Edge Compliance LTE B4
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 27
Operating Mode:	BE20MHz_1RBhigh_ModulationQAM_CH20300
Environmental Conditions:	Humidity: 35%rH; Temperature: 22°C
Operator:	RI

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	66-10777-001

HW Version:	9134G05
SW Version:	17.02.S.016
Serial Number:	2950006922
Connected Interfaces:	Main wiring + DTNA Antenna
Power Supply:	24V DC

Full Spectrum



Final Result

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Measurement Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Correction (dB)
1755.005000	-22.44	-13.00	9.44	700.0	200.000	155.0	V	286.0	90.0	-63.6

9.16_BE_LTE4_high_Ch20300_QPSK

Common Information

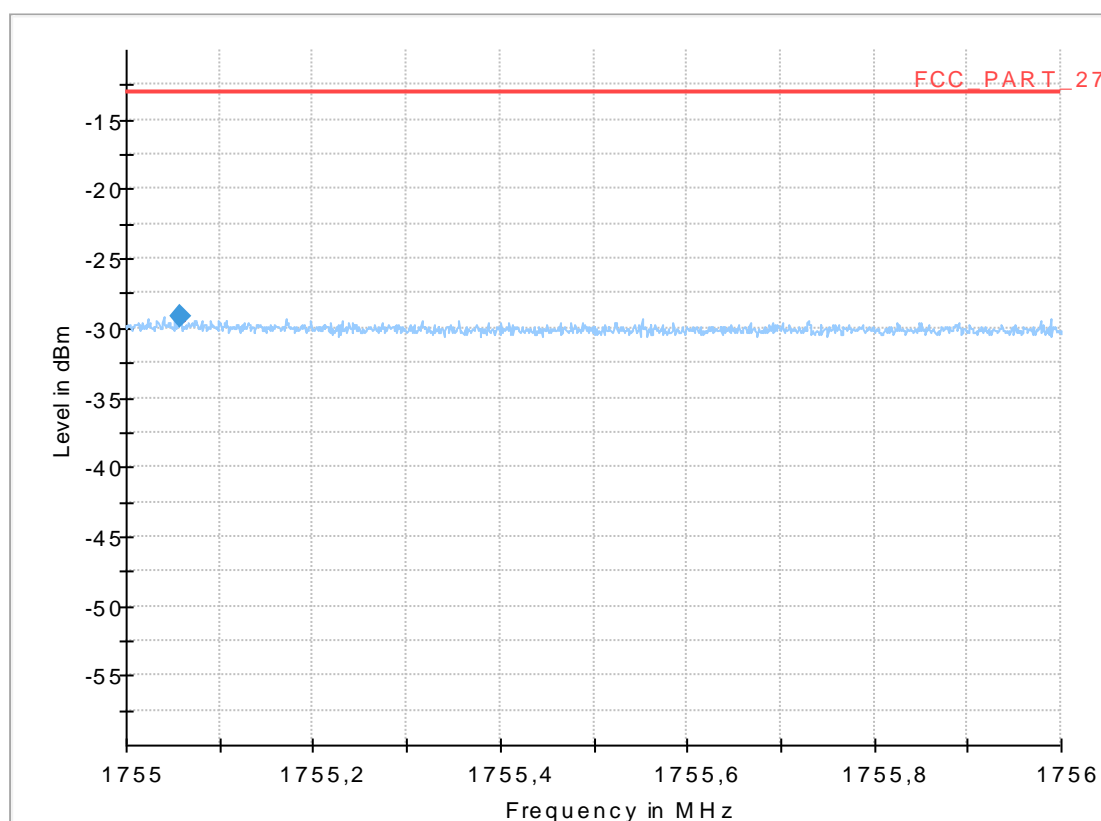
Test Description:	Radiated Band Edge Compliance LTE B4
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 27
Operating Mode:	BE20MHz_1RBhigh_ModulationQPSK_CH20300
Environmental Conditions:	Humidity: 35%rH; Temperature: 22°C
Operator:	RI

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	66-10777-001

HW Version:	9134G05
SW Version:	17.02.S.016
Serial Number:	2950006922
Connected Interfaces:	Main wiring + DTNA Antenna
Power Supply:	24V DC

Full Spectrum



Final Result

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Measurement Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Correction (dB)
1755.058000	-29.12	-13.00	16.12	700.0	200.000	155.0	V	285.0	90.0	-63.6

9.17_BE_LTE4_high_Ch20300_QAM

Common Information

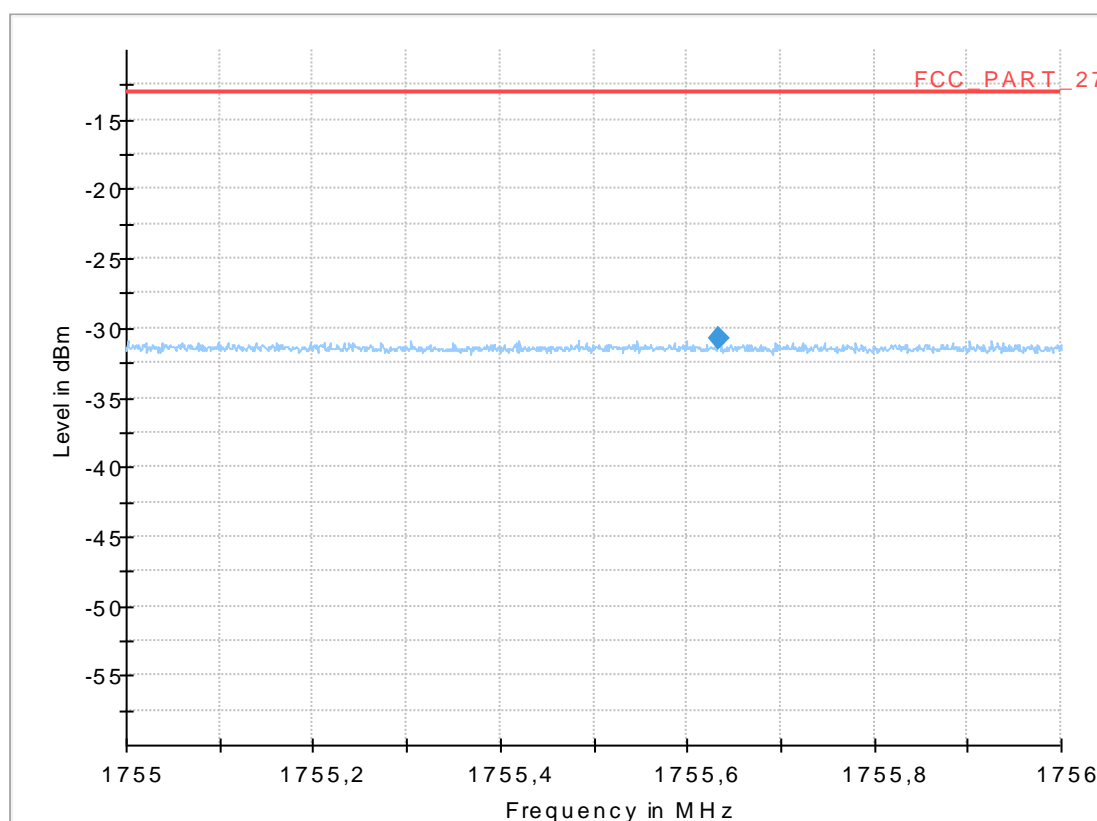
Test Description:	Radiated Band Edge Compliance LTE B4
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 27
Operating Mode:	BE20MHz_1RBhigh_ModulationQAM_CH20300
Environmental Conditions:	Humidity: 35%rH; Temperature: 22°C
Operator:	RI

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	66-10777-001

HW Version:	9134G05
SW Version:	17.02.S.016
Serial Number:	2950006922
Connected Interfaces:	Main wiring + DTNA Antenna
Power Supply:	24V DC

Full Spectrum



Final Result

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Measurement Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Correction (dB)
1755.634000	-30.82	-13.00	17.82	700.0	200.000	155.0	H	325.0	0.0	-63.6

1.10. Radiated emissions – band-edge (LTE Band 5)

1.10.1. Low Band-Edge

9.21_BE_LTE5_1RBLow_Ch20425_QPSK

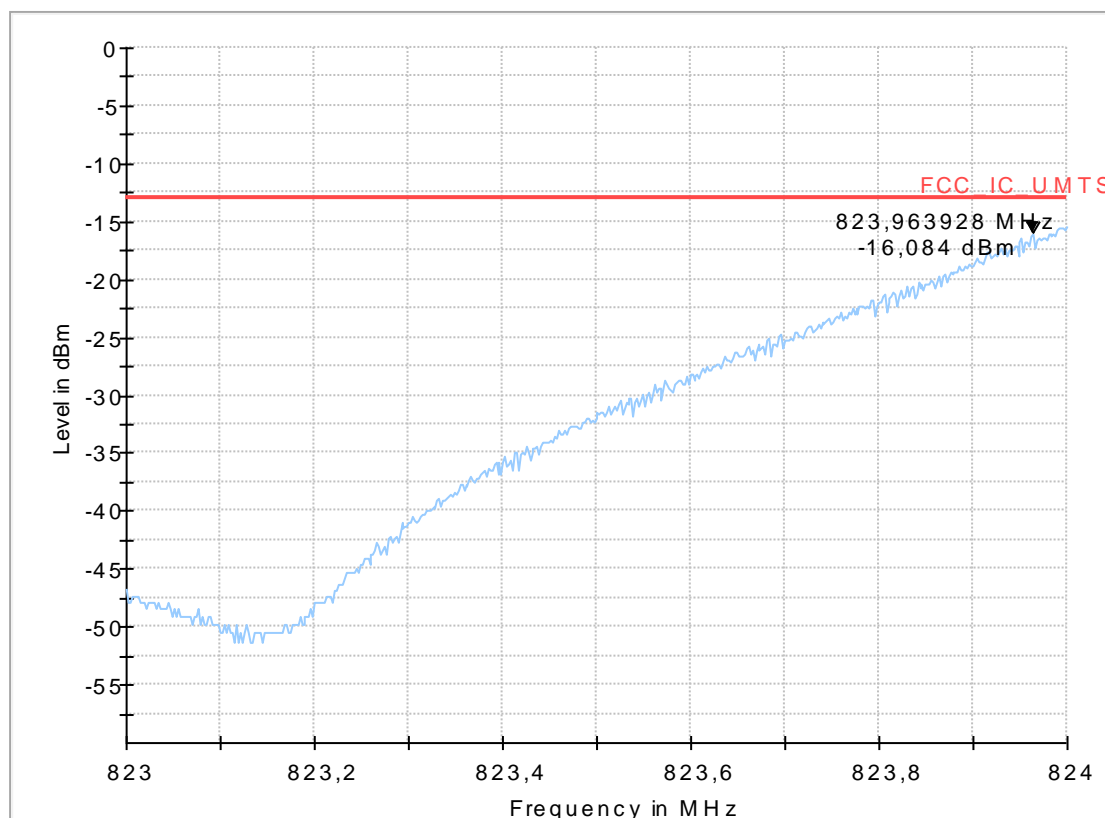
Common Information

Test Description:	Radiated Band Edge Compliance LTE B5
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22
Operating Mode:	BE5MHz_1RBLow_ModulationQPSK_CH20425
Environmental Conditions:	Humidity: 35%rH; Temperature: 22°C
Operator:	RLs

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	66-10777-001
HW Version:	9134G05
SW Version:	17.02.S.016
Serial Number:	2950006922
Connected Interfaces:	Main wiring + DTNA Antenna
Power Supply:	24V DC

Full Spectrum



9.22_BE_LTE5_1RBLow_Ch20425_QAM

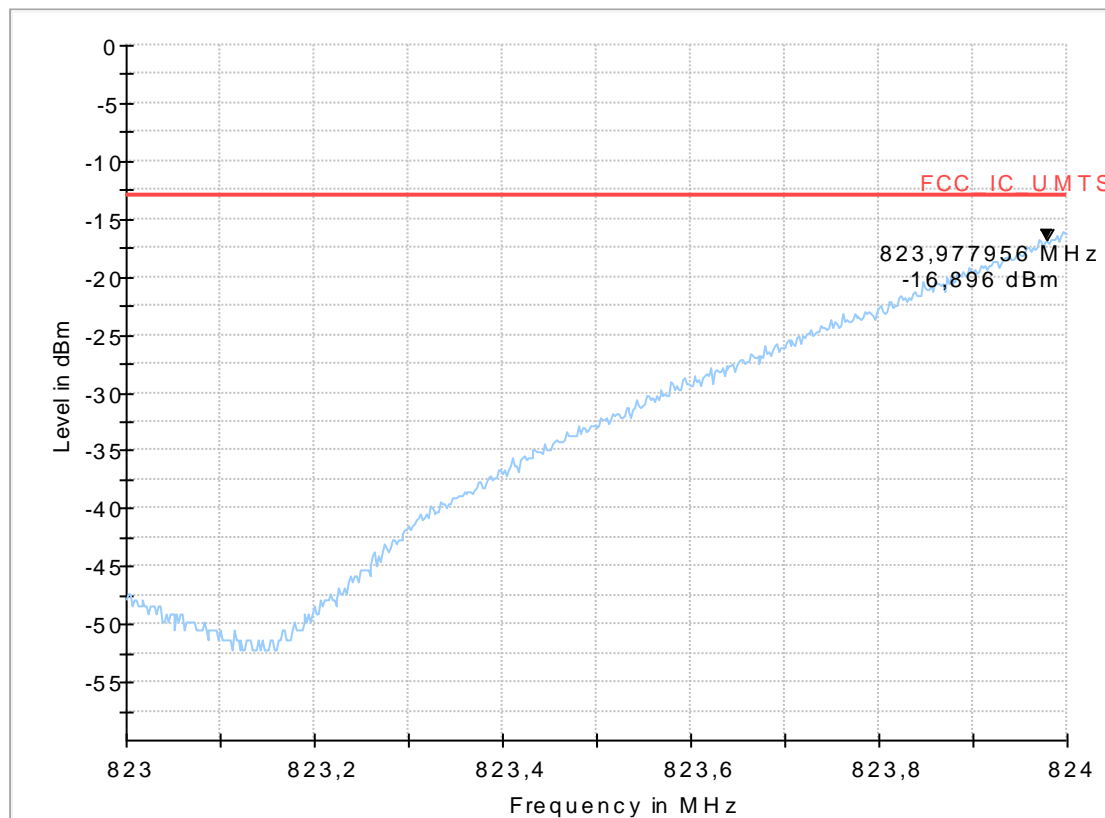
Common Information

Test Description:	Radiated Band Edge Compliance LTE B5
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22
Operating Mode:	BE5MHz_1RBLow_ModulationQAM_CH20425
Environmental Conditions:	Humidity: 35%rH; Temperature: 22°C
Operator:	RI

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	66-10777-001
HW Version:	9134G05
SW Version:	17.02.S.016
Serial Number:	2950006922
Connected Interfaces:	Main wiring + DTNA Antenna
Power Supply:	24V DC

Full Spectrum



9.23_BE_LTE5_25RBLow_Ch20425_QPSK

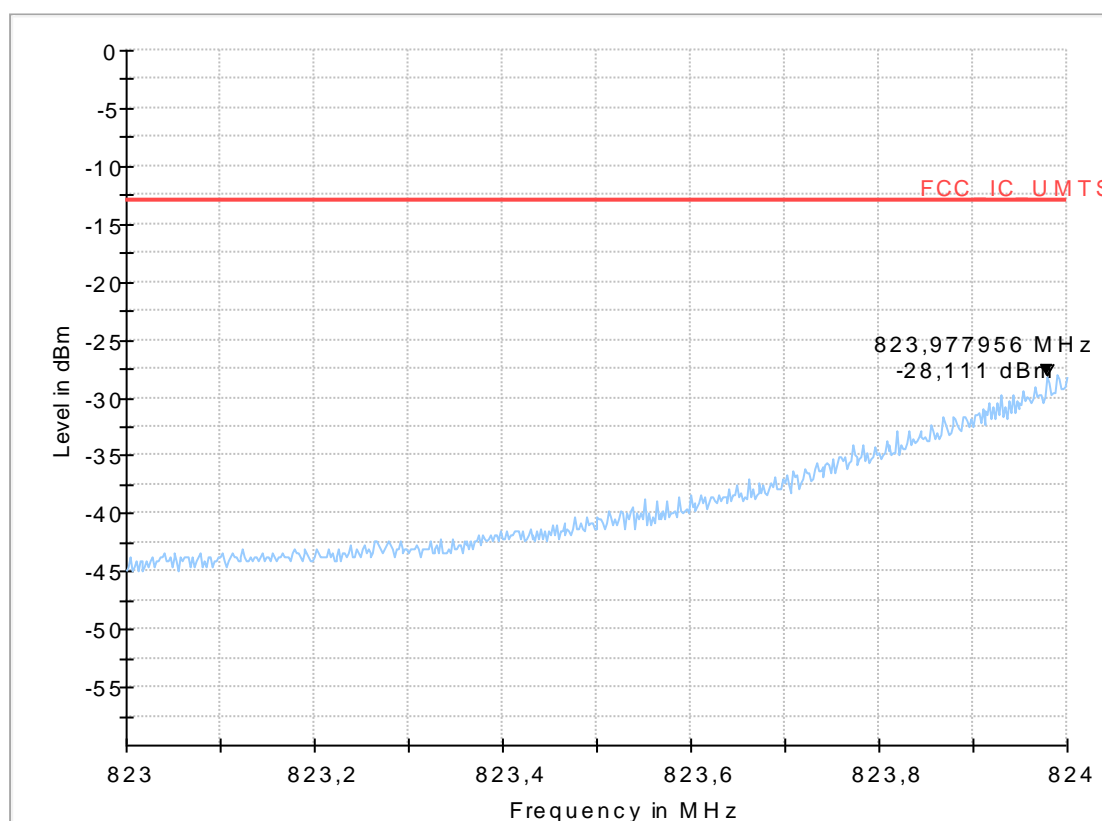
Common Information

Test Description:	Radiated Band Edge Compliance LTE B5
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22
Operating Mode:	BE5MHz_25RBLow_ModulationQPSK_CH20425
Environmental Conditions:	Humidity: 35%rH; Temperature: 22°C
Operator:	RI

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	66-10777-001
HW Version:	9134G05
SW Version:	17.02.S.016
Serial Number:	2950006922
Connected Interfaces:	Main wiring + DTNA Antenna
Power Supply:	24V DC

Full Spectrum



9.24_BE_LTE5_25RBLow_Ch20425_QAM

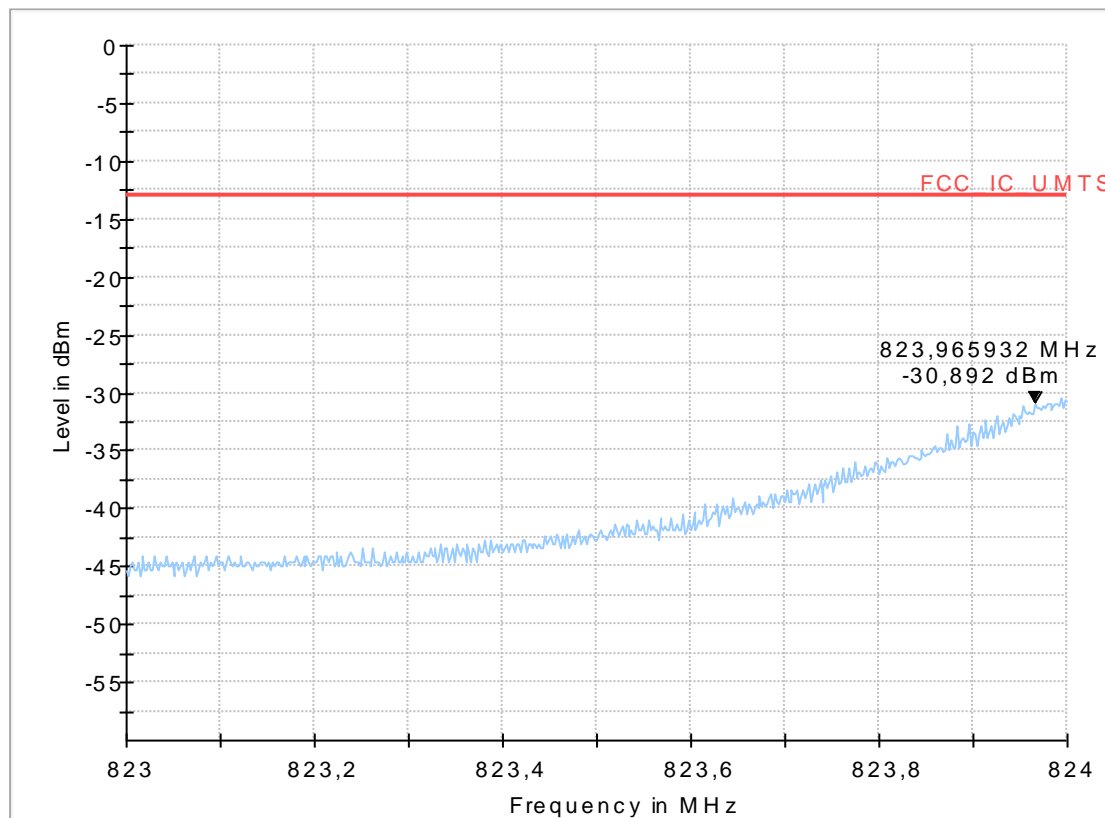
Common Information

Test Description:	Radiated Band Edge Compliance LTE B5
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22
Operating Mode:	BE5MHz_25RBLow_ModulationQAM_CH20425
Environmental Conditions:	Humidity: 35%rH; Temperature: 22°C
Operator:	RI

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	66-10777-001
HW Version:	9134G05
SW Version:	17.02.S.016
Serial Number:	2950006922
Connected Interfaces:	Main wiring + DTNA Antenna
Power Supply:	24V DC

Full Spectrum



1.10.2. High Band-Edge

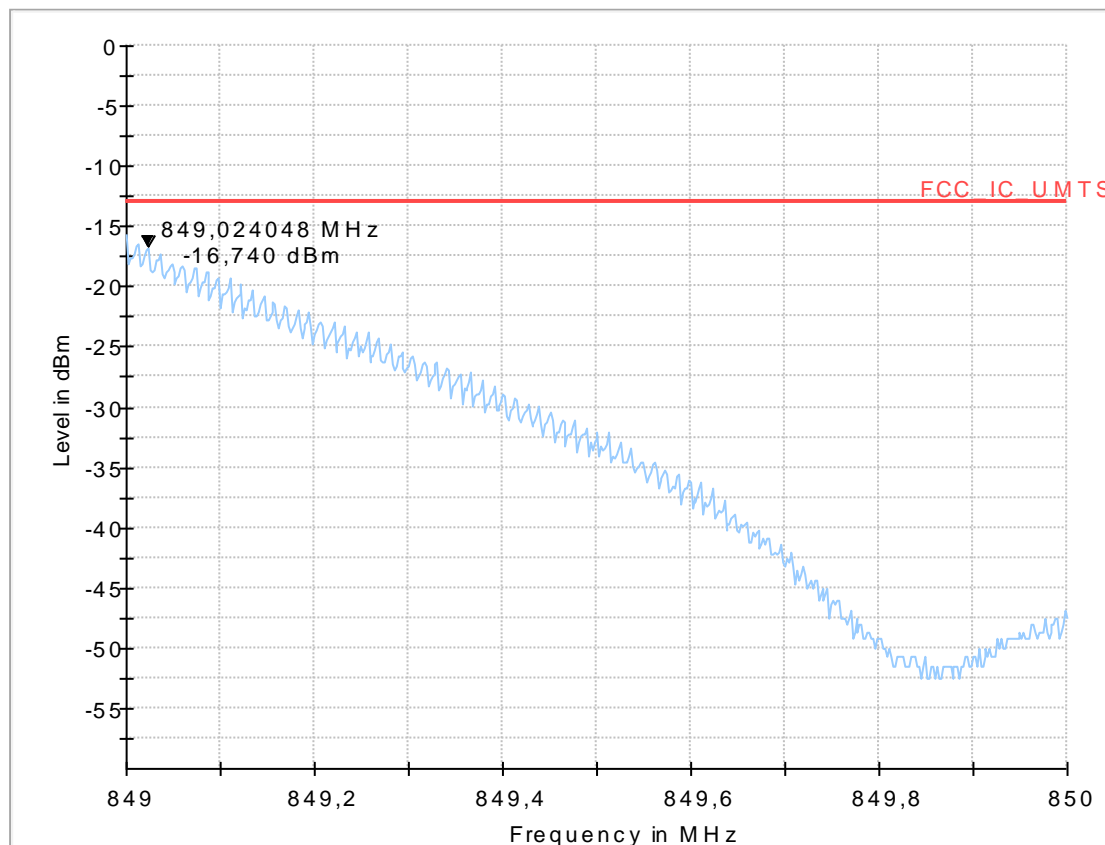
9.25_BE_LTE5_1RBHigh_Ch20625_QPSK

Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part xx
Operating Mode:	BE5MHz_1RBHigh_ModulationQPSK_CH20625
Environmental Conditions:	Humidity: 35%rH; Temperature: 22°C
Operator:	RI

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	66-10777-001
HW Version:	9134G05
SW Version:	17.02.S.016
Serial Number:	2950006922
Connected Interfaces:	Main wiring + DTNA Antenna
Power Supply:	24V DC



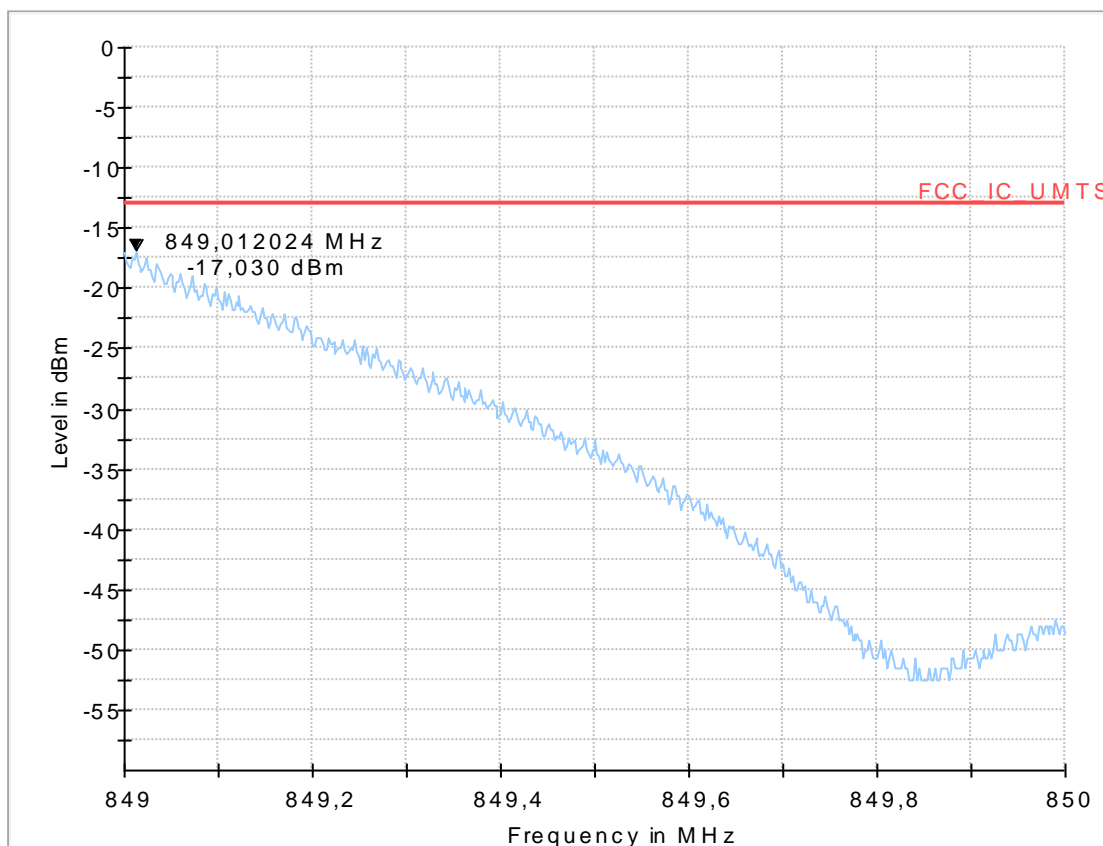
9.26_BE_LTE5_1RBHigh_Ch20625_QAM

Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part xx
Operating Mode:	BE5MHz_1RBHigh_ModulationQAM_CH20625
Environmental Conditions:	Humidity: 35%rH; Temperature: 22°C
Operator:	RI

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	66-10777-001
HW Version:	9134G05
SW Version:	17.02.S.016
Serial Number:	2950006922
Connected Interfaces:	Main wiring + DTNA Antenna
Power Supply:	24V DC



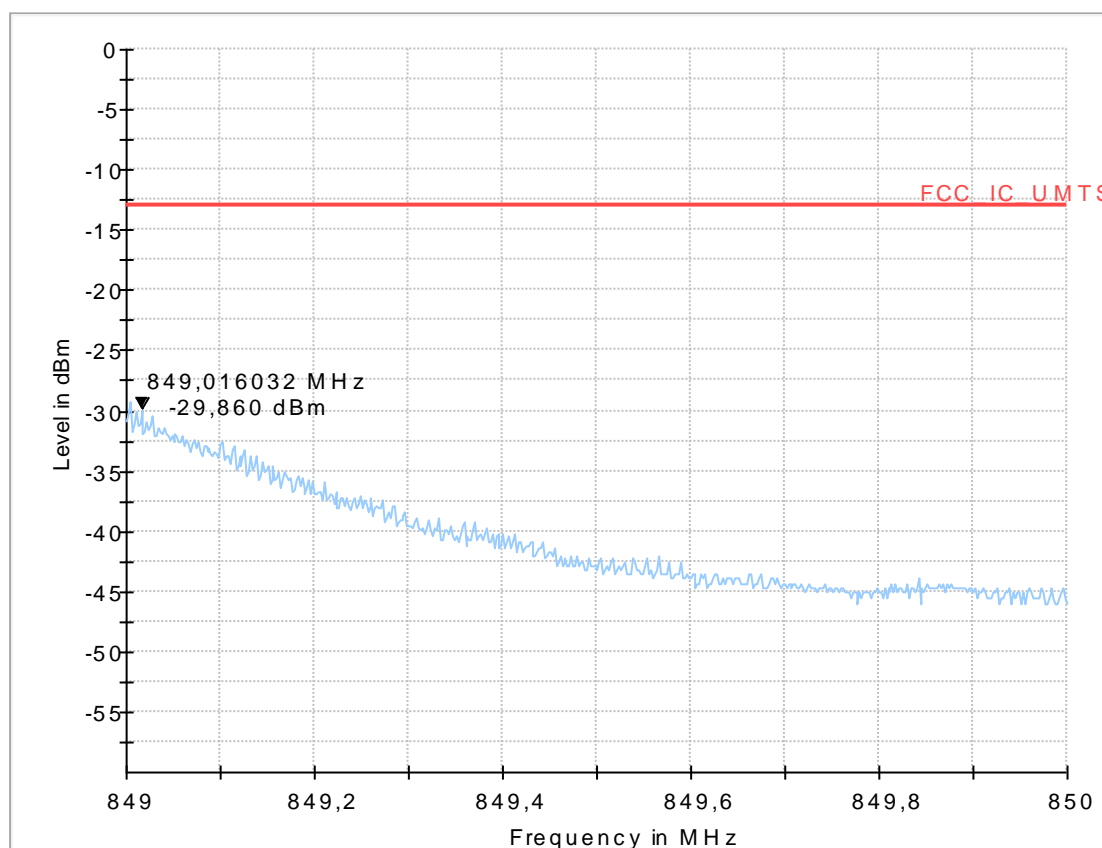
9.27_BE_LTE5_25RBHigh_Ch20625_QPSK

Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 24
Operating Mode:	BE5MHz_25RBHigh_ModulationQPSK_CH20625
Environmental Conditions:	Humidity: 35%rH; Temperature: 22°C
Operator:	RI

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	66-10777-001
HW Version:	9134G05
SW Version:	17.02.S.016
Serial Number:	2950006922
Connected Interfaces:	Main wiring + DTNA Antenna
Power Supply:	24V DC



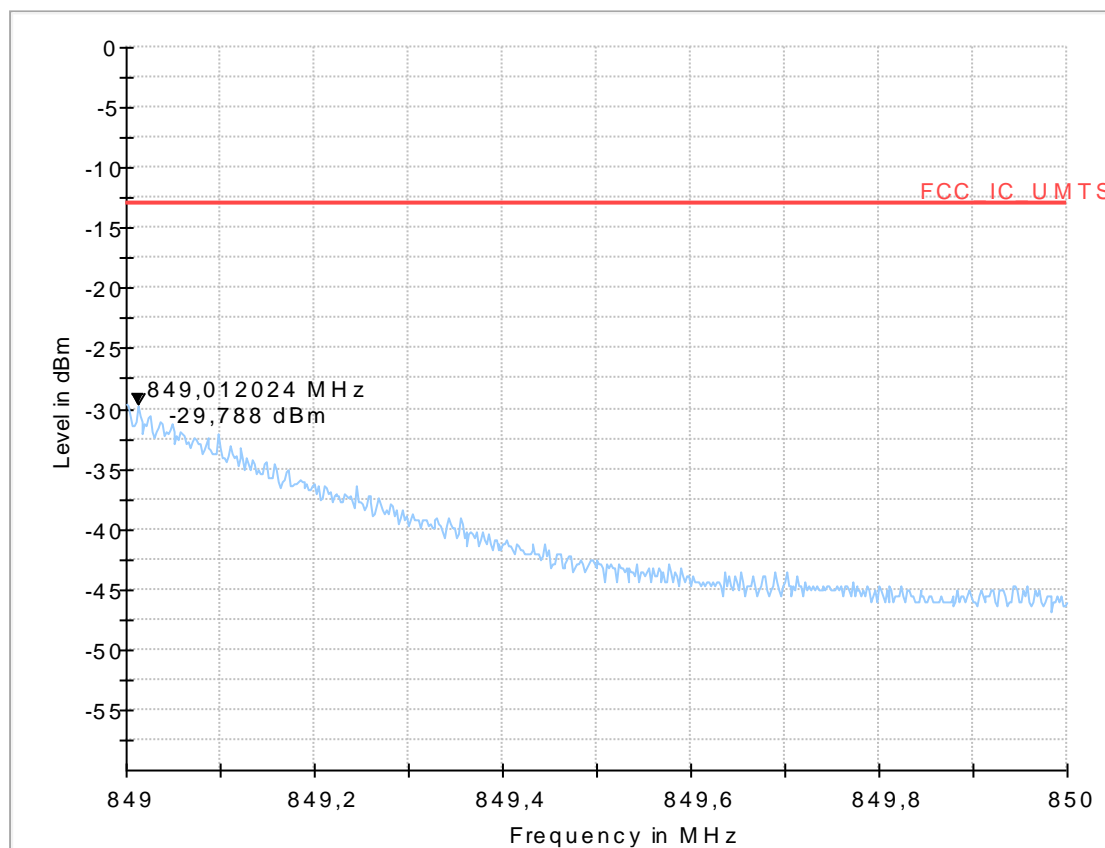
9.28_BE_LTE5_25RBHigh_Ch20625_QAM

Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part xx
Operating Mode:	BE5MHz_25RBHigh_ModulationQAM_CH20625
Environmental Conditions:	Humidity: 35%rH; Temperature: 22°C
Operator:	RI

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	66-10777-001
HW Version:	9134G05
SW Version:	17.02.S.016
Serial Number:	2950006922
Connected Interfaces:	Main wiring + DTNA Antenna
Power Supply:	24V DC



1.11. Radiated emissions – band-edge (LTE Band 7)

1.11.1. Low Band-Edge

9.30_BE_LTE7_1RB_Low_CH20850_QPSK_new

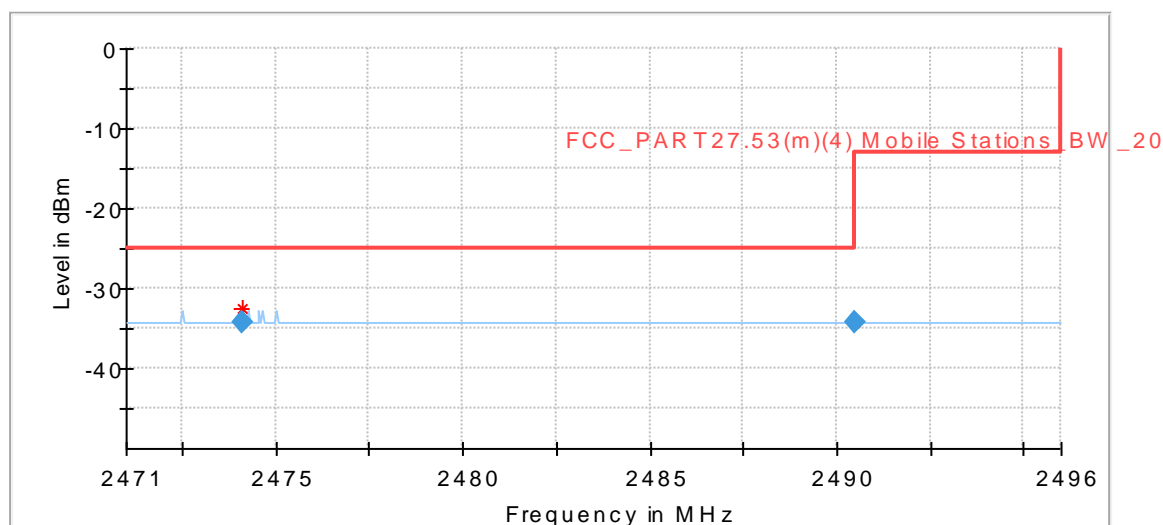
Common Information

Test Description:	Band-Edge low - Radiated Spurious Emissions LTE Band 7
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 27.53(l)(4) Mobile stations limits
Operating Mode:	UE allocated channel 20850/ BW20: / RB 1: / Position: low/ QPSK
Environmental Conditions:	Humidity: 45%rH; Temperature: 23°C
Test SW Version:	EMC32 V9.26.0
Operator:	Mah/Soz
Remarks:	EUT - laying/standing position

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	66-10777-001
HW Version:	9134G05
SW Version:	17.02.S.016
Serial Number:	2950006922
Connected Interfaces:	Main wiring + DTNA Antenna
Power Supply:	24V DC

Full Spectrum



9.31_BE_LTE7_1RB_CH20850_QAM

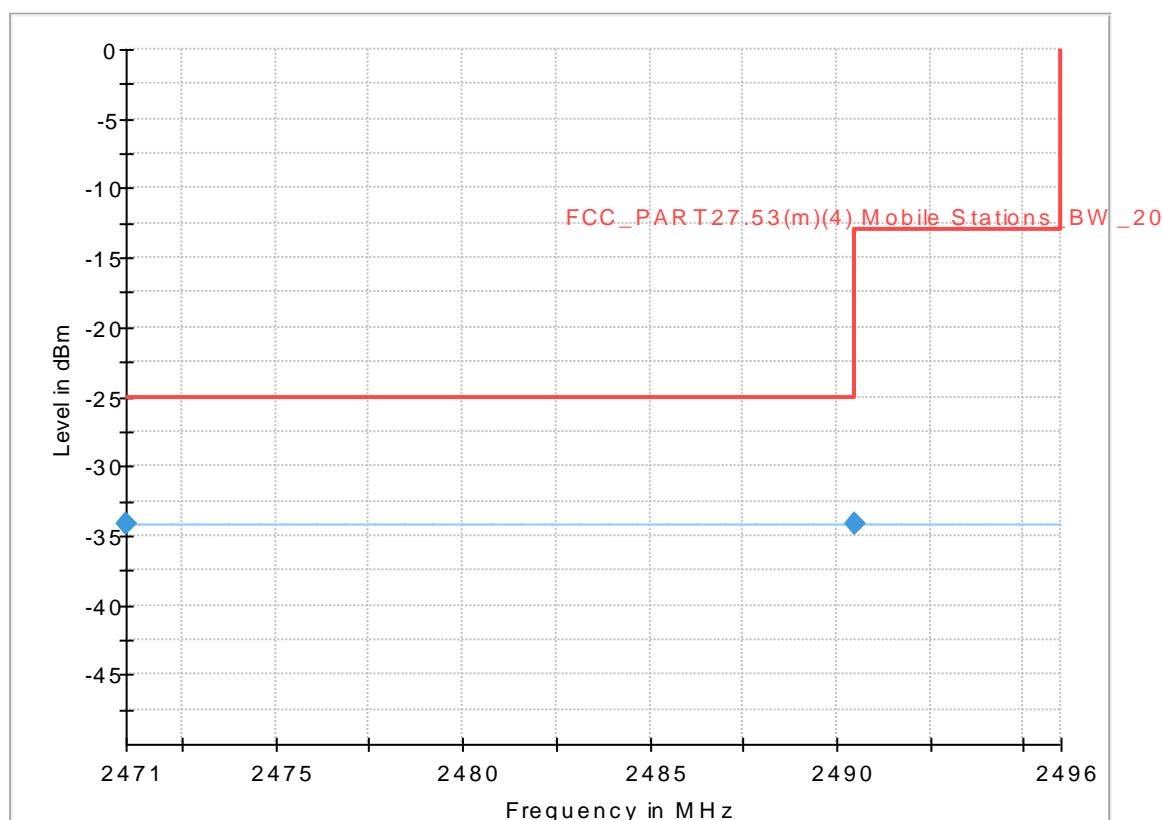
Common Information

Test Description:	Band-Edge low - Radiated Spurious Emissions LTE Band 7
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 27.53(l)(4) Mobile stations limits
Operating Mode:	UE allocated channel 20850/ BW:20MHz / RB: 1/ Position: low/ QAM
Environmental Conditions:	Humidity: 45%rH; Temperature: 23°C
Test SW Version:	EMC32 V9.26.0
Operator:	Mah/Soz
Remarks:	EUT - laying/standing position

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	66-10777-001
-----	-----
HW Version:	9134G05
SW Version:	17.02.S.016
Serial Number:	2950006922
Connected Interfaces:	Main wiring + DTNA Antenna
Power Supply:	24V DC

Full Spectrum



Final Result

Frequency (MHz)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)	Comment
2471.000000	-	9.20	1000.0	155.0	H	29.0	90.0	-59.6	09:46:51 - 20.09.2017
2490.488978	-	9.19	1000.0	155.0	H	32.0	90.0	-59.6	09:48:49 - 20.09.2017

9.32_BE_LTE7_100RB_CH20850_QPSK

Common Information

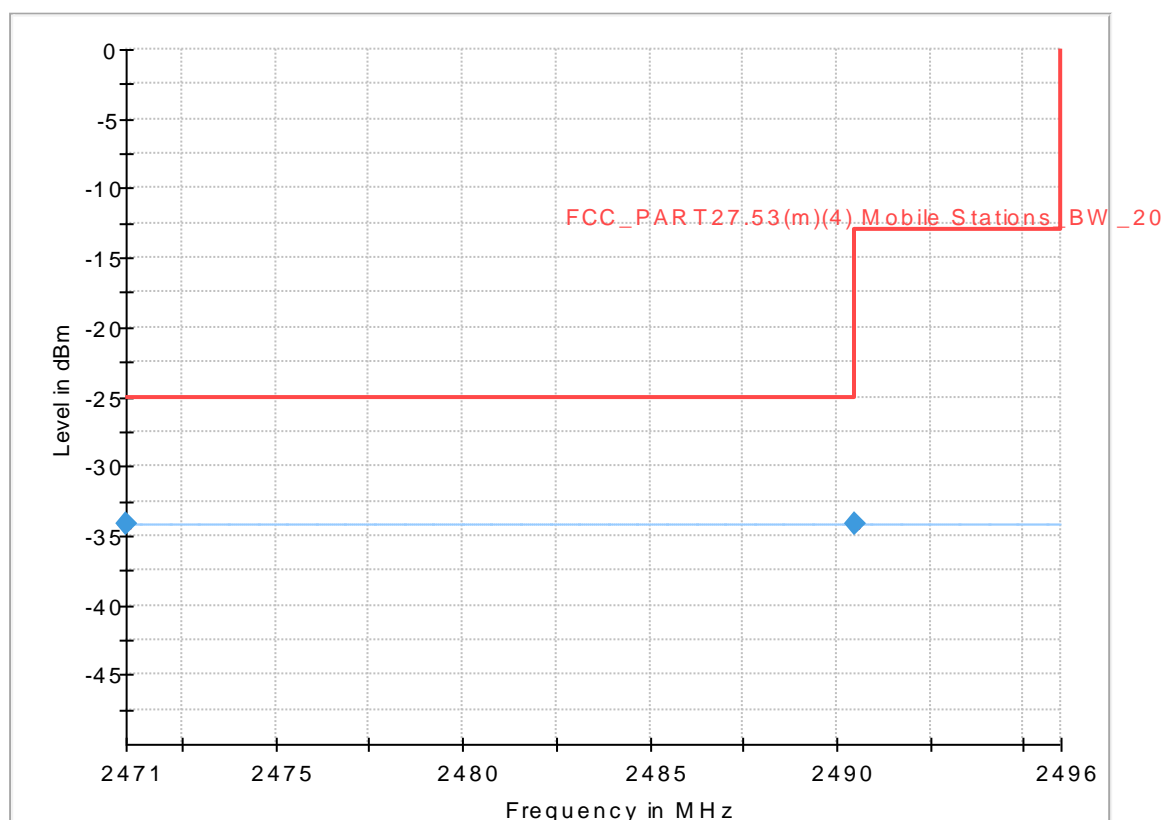
Test Description:	Band-Edge low - Radiated Spurious Emissions LTE Band 7
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 27.53(l)(4) Mobile stations limits
Operating Mode:	UE allocated channel 20850/ BW: 20MHz/ RB: 100/ QPSK
Environmental Conditions:	Humidity: 45%rH; Temperature: 23°C
Test SW Version:	EMC32 V9.26.0
Operator:	Mah/Soz
Remarks:	EUT - laying/standing position

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	66-10777-001

HW Version:	9134G05
SW Version:	17.02.S.016
Serial Number:	2950006922
Connected Interfaces:	Main wiring + DTNA Antenna
Power Supply:	24V DC

Full Spectrum



Final Result

Frequency (MHz)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)	Comment
2471.000000	-	9.20	1000.0	155.0	H	31.0	90.0	-59.6	10:27:48 - 20.09.2017
2490.488978	-	9.19	1000.0	155.0	H	31.0	90.0	-59.6	10:29:48 - 20.09.2017

9.33_BE_LTE7_100RB_CH20850_QAM

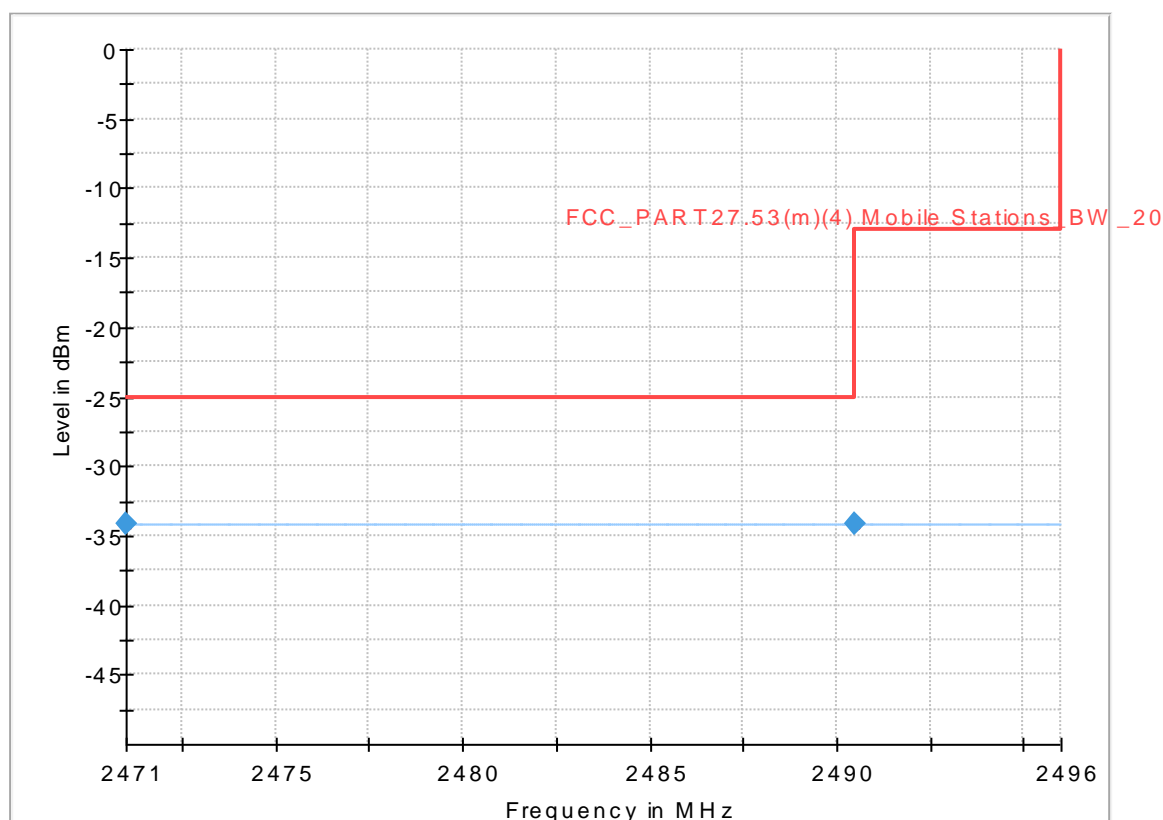
Common Information

Test Description:	Band-Edge low - Radiated Spurious Emissions LTE Band 7
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 27.53(l)(4) Mobile stations limits
Operating Mode:	UE allocated channel 20850/ BW: 20MHz/ RB: 100/ QAM
Environmental Conditions:	Humidity: 45%rH; Temperature: 23°C
Test SW Version:	EMC32 V9.26.0
Operator:	Mah/Soz
Remarks:	EUT - laying/standing position

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	66-10777-001
-----	-----
HW Version:	9134G05
SW Version:	17.02.S.016
Serial Number:	2950006922
Connected Interfaces:	Main wiring + DTNA Antenna
Power Supply:	24V DC

Full Spectrum



Final Result

Frequency (MHz)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)	Comment
2471.000000	-	9.20	1000.0	155.0	H	31.0	90.0	-59.6	10:07:58 - 20.09.2017
2490.488978	-	9.19	1000.0	155.0	H	30.0	90.0	-59.6	10:09:58 - 20.09.2017

1.11.2. High Band-Edge

9.34_BE_LTE7_1RB_High_CH21425_QPSK

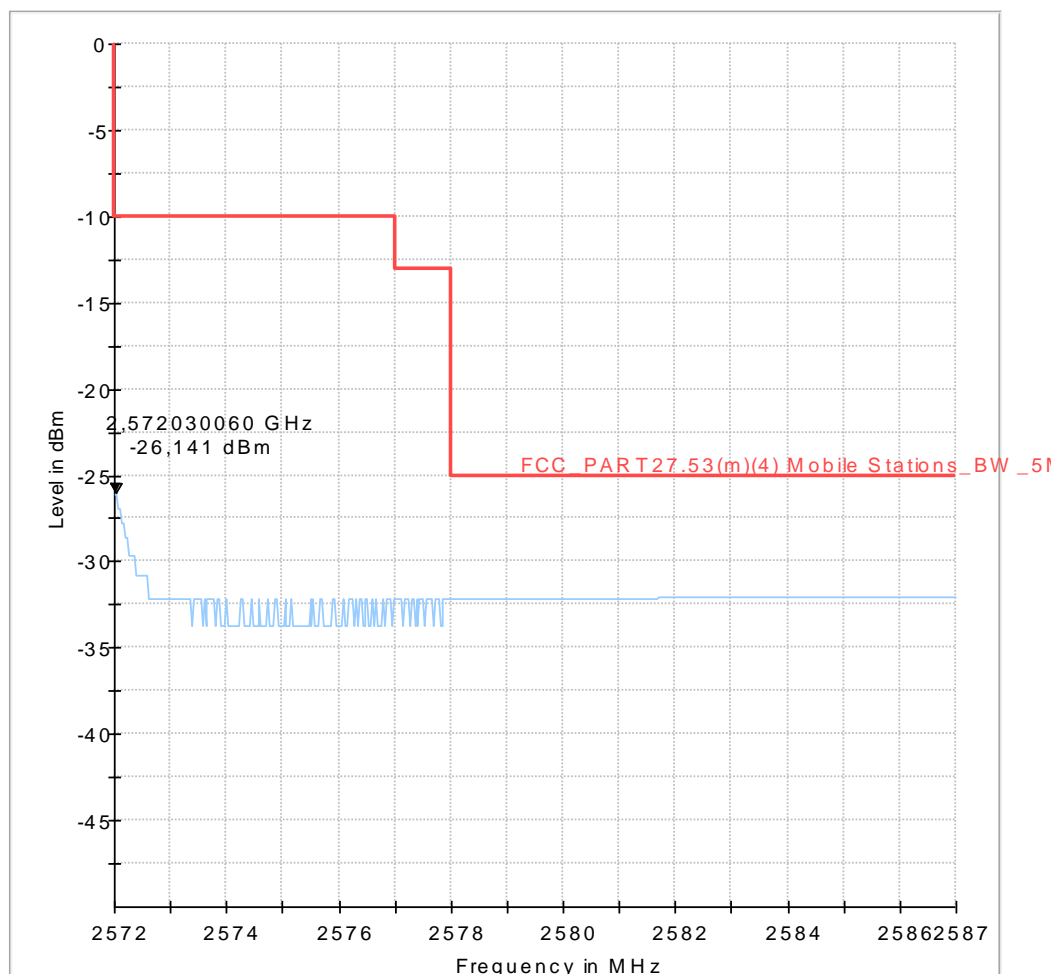
Common Information

Test Description:	Band-Edge low - Radiated Spurious Emissions LTE Band 7
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 27.53(l)(4) Mobile stations limits
Operating Mode:	UE allocated channel 21425/ BW: 5MHz/ RB: 1/ Position: high/ QPSK
Environmental Conditions:	Humidity: 35%rH; Temperature: 23°C
Test SW Version:	EMC32 V9.26.0
Operator:	Klv
Remarks:	EUT - laying/standing position

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	66-10777-001
HW Version:	9134G05
SW Version:	17.02.S.016
Serial Number:	2950006922
Connected Interfaces:	Main wiring + DTNA Antenna
Power Supply:	24V DC

Full Spectrum



9.35_BE_LTE7_1RB_High_CH21425_QAM

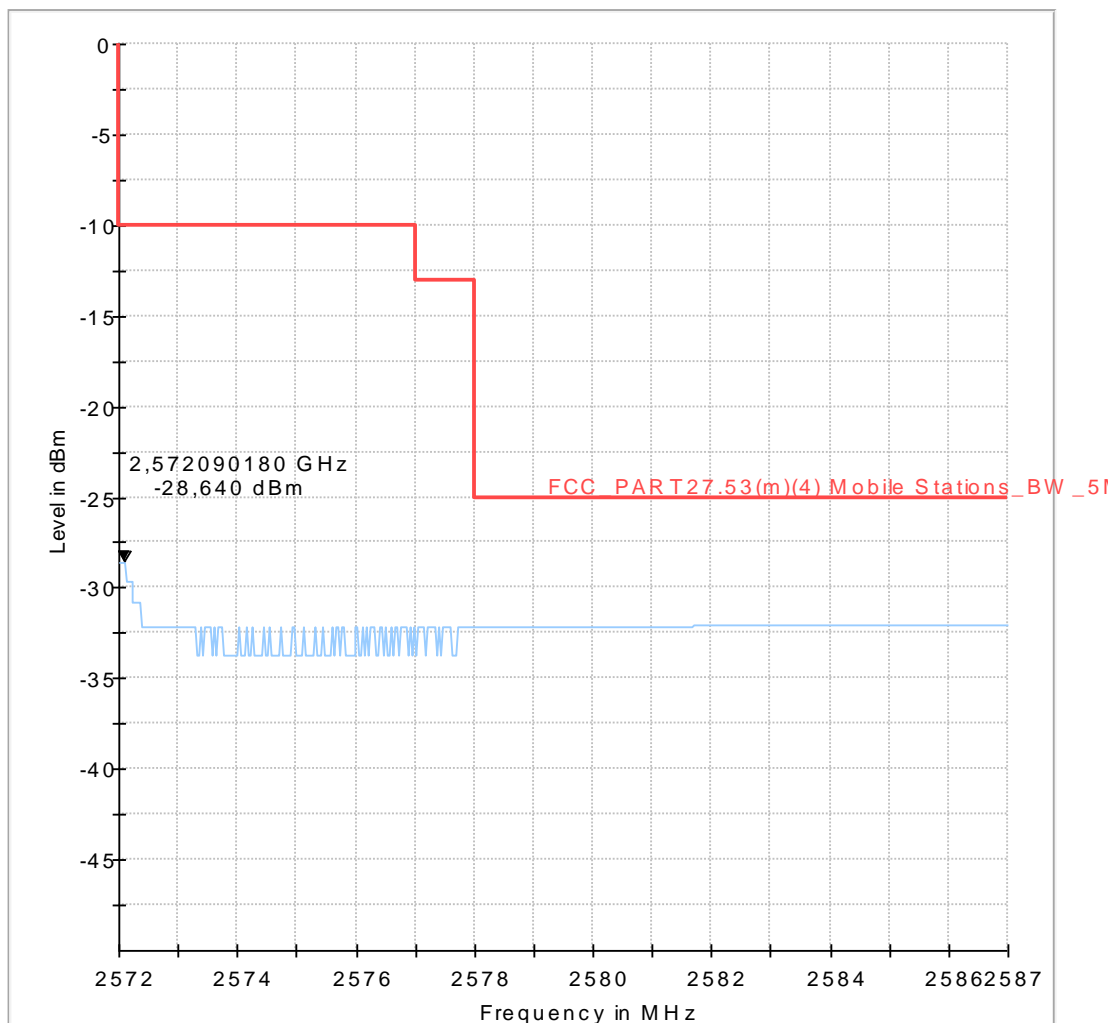
Common Information

Test Description:	Band-Edge low - Radiated Spurious Emissions LTE Band 7
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 27.53(l)(4) Mobile stations limits
Operating Mode:	UE allocated channel 21425/ BW: 5MHz/ RB: 1/ Position: high/ QAM
Environmental Conditions:	Humidity: 35%rH; Temperature: 23°C
Test SW Version:	EMC32 V9.26.0
Operator:	Klv
Remarks:	EUT - laying/standing position

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	66-10777-001
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HW Version:	9134G05
SW Version:	17.02.S.016
Serial Number:	2950006922
Connected Interfaces:	Main wiring + DTNA Antenna
Power Supply:	24V DC

Full Spectrum



9.36_BE_LTE7_25RB_High_CH21425_QPSK

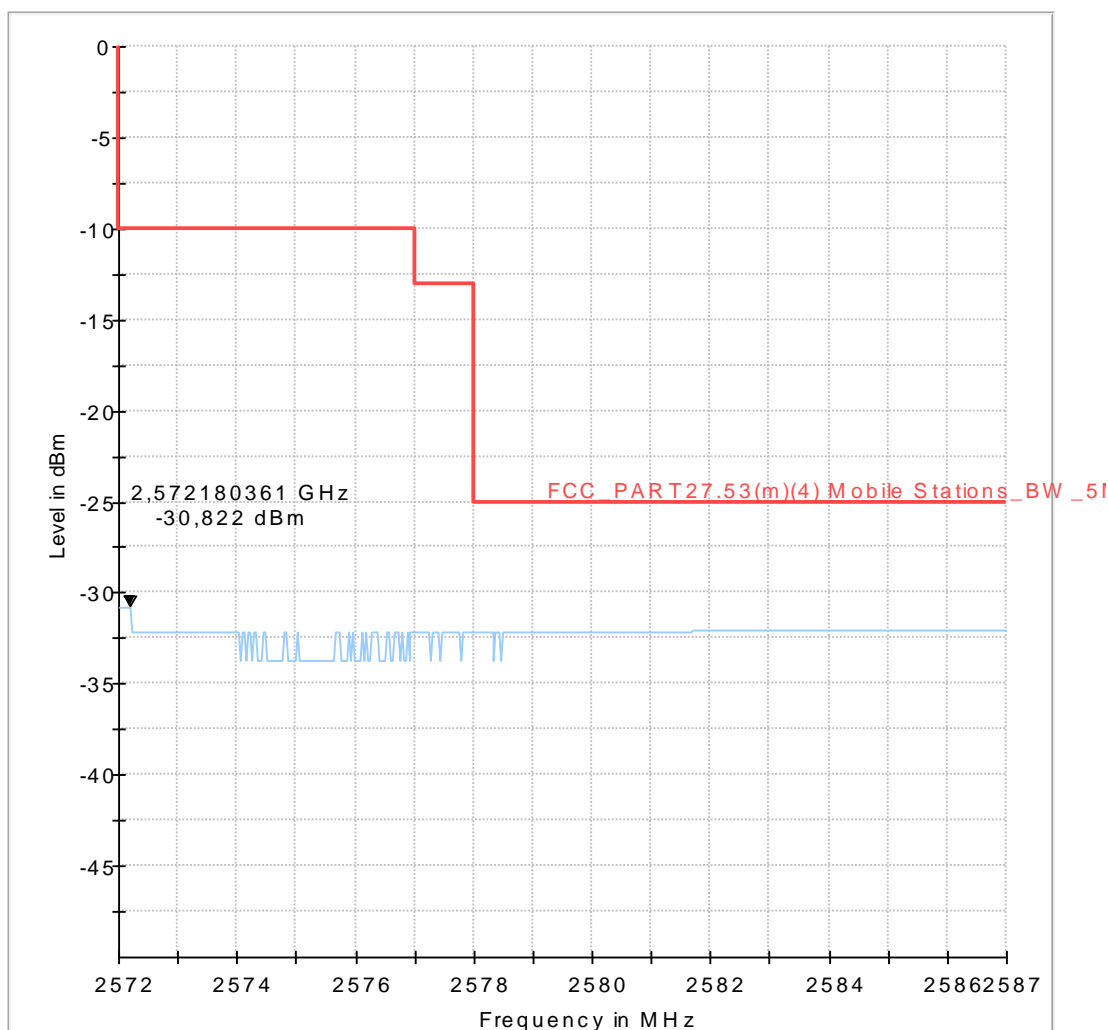
Common Information

Test Description:	Band-Edge low - Radiated Spurious Emissions LTE Band 7
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 27.53(l)(4) Mobile stations limits
Operating Mode:	UE allocated channel 21425/ BW: 5MHz/ RB: 25/ QPSK
Environmental Conditions:	Humidity: 35%rH; Temperature: 23°C
Test SW Version:	EMC32 V9.26.0
Operator:	Klv
Remarks:	EUT - laying/standing position

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	66-10777-001
HW Version:	9134G05
SW Version:	17.02.S.016
Serial Number:	2950006922
Connected Interfaces:	Main wiring + DTNA Antenna
Power Supply:	24V DC

Full Spectrum



9.37_BE_LTE7_25RB_High_CH21425_QAM

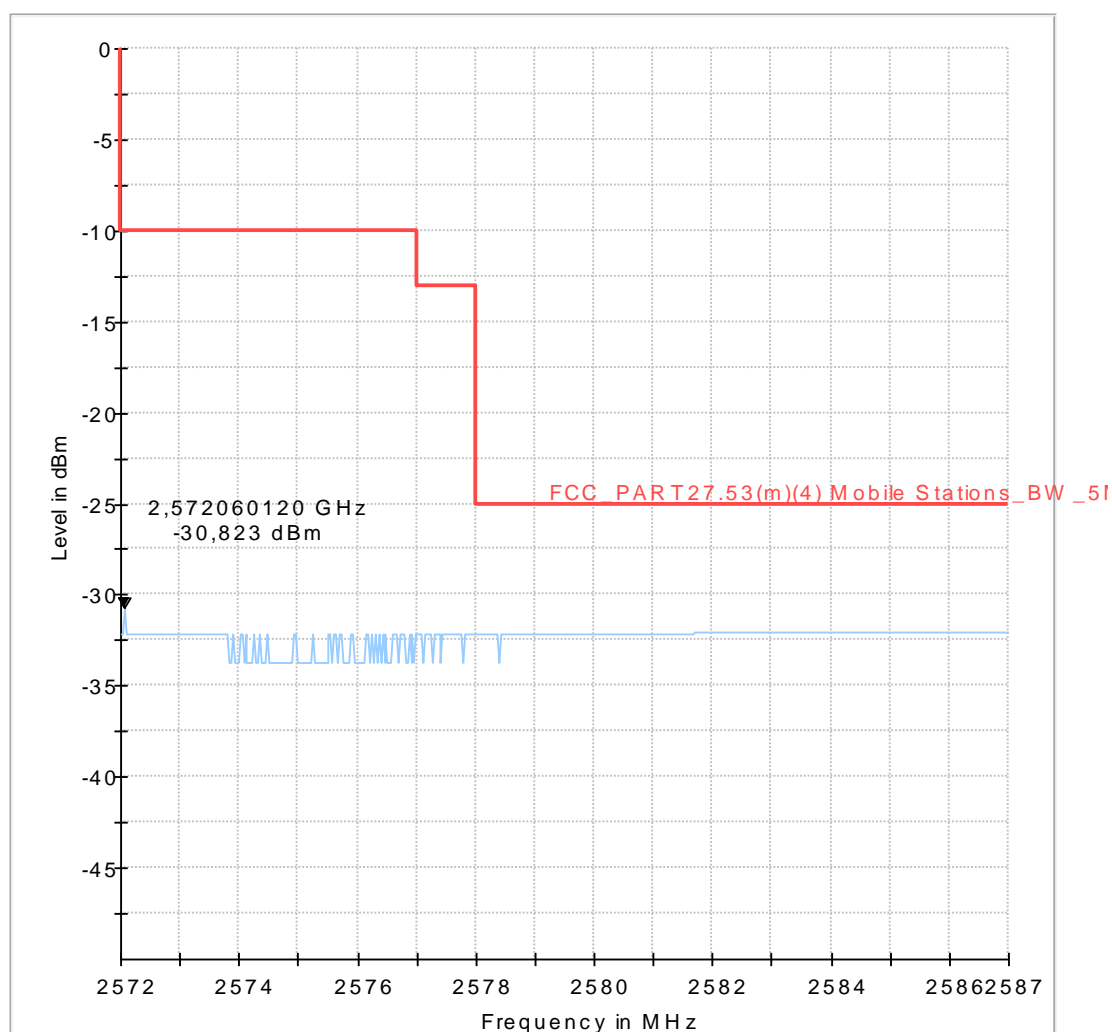
Common Information

Test Description:	Band-Edge low - Radiated Spurious Emissions LTE Band 7
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 27.53(l)(4) Mobile stations limits
Operating Mode:	UE allocated channel 21425/ BW: 5MHz/ RB: 25/ QAM
Environmental Conditions:	Humidity: 35%rH; Temperature: 23°C
Test SW Version:	EMC32 V9.26.0
Operator:	Klv
Remarks:	EUT - laying/standing position

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	66-10777-001
HW Version:	9134G05
SW Version:	17.02.S.016
Serial Number:	2950006922
Connected Interfaces:	Main wiring + DTNA Antenna
Power Supply:	24V DC

Full Spectrum



1.12. Radiated emissions – band-edge (LTE Band 17)

1.12.1. Low Band-Edge

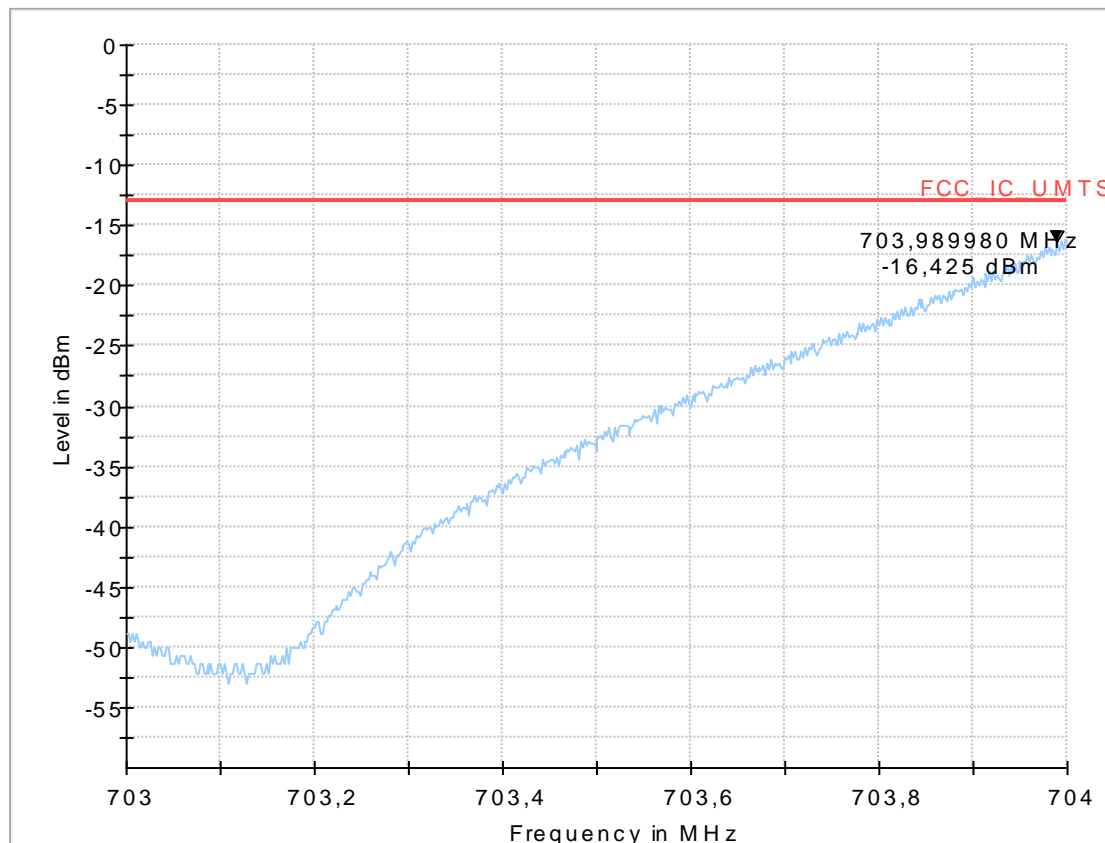
9.40_BE_LTE17_1RBLow_Ch23755_QPSK

Common Information

Test Description:	Radiated Band Edge Compliance LTE B17
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 27
Operating Mode:	BE5MHz_1RBLow_ModulationQPSK_CH23755
Environmental Conditions:	Humidity: 35%rH; Temperature: 22°C
Operator:	RI

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	66-10777-001
HW Version:	9134G05
SW Version:	17.02.S.016
Serial Number:	2950006922
Connected Interfaces:	Main wiring + DTNA Antenna
Power Supply:	24V DC



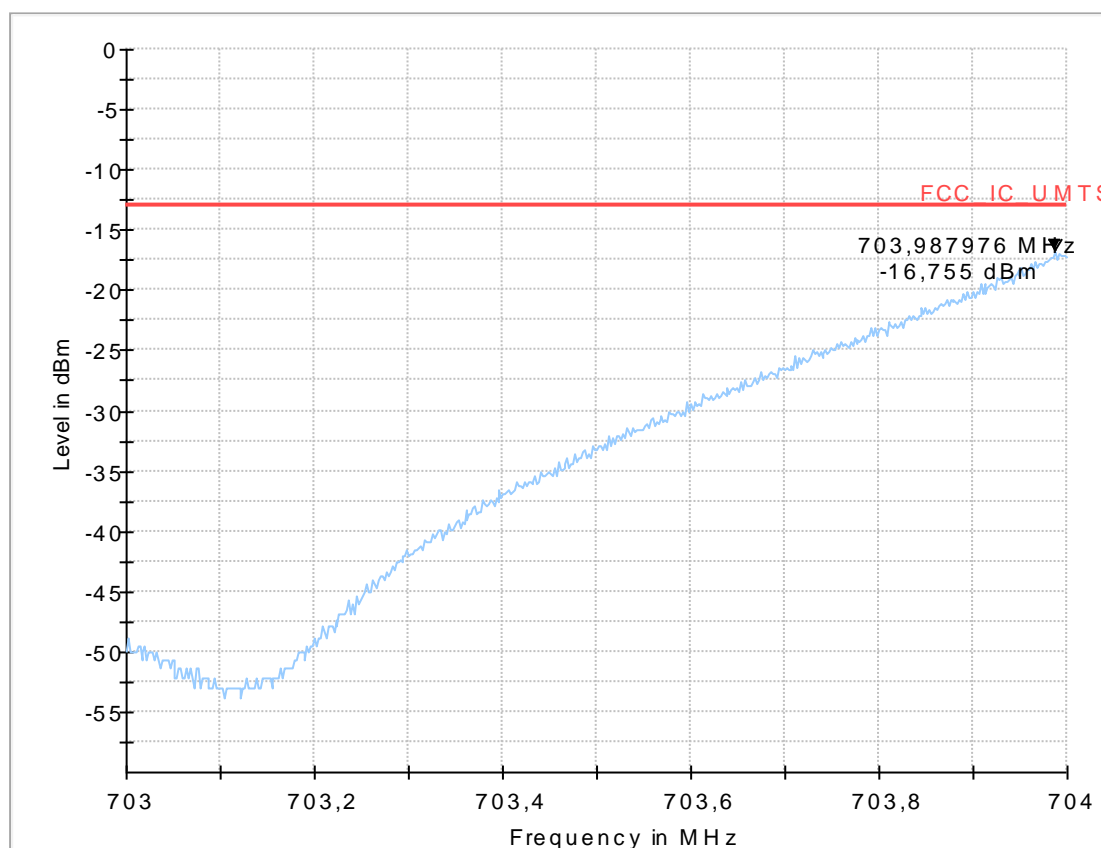
9.41_BE_LTE17_1RBLow_Ch23755_QAM

Common Information

Test Description:	Radiated Band Edge Compliance LTE B17
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 27
Operating Mode:	BE5MHz_1RBLow_ModulationQAM_CH23755
Environmental Conditions:	Humidity: 35%rH; Temperature: 22°C
Operator:	RI

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	66-10777-001
HW Version:	9134G05
SW Version:	17.02.S.016
Serial Number:	2950006922
Connected Interfaces:	Main wiring + DTNA Antenna
Power Supply:	24V DC



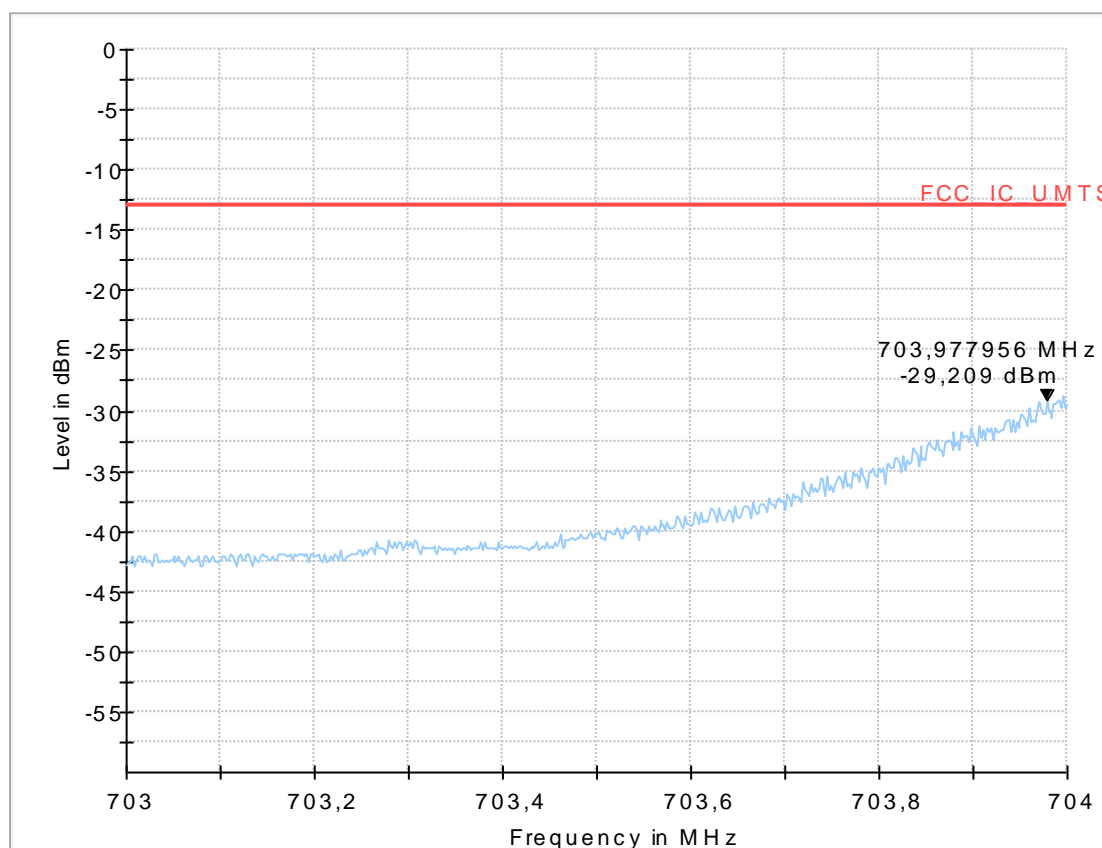
9.42_BE_LTE17_25RBLow_Ch23755_QPSK

Common Information

Test Description:	Radiated Band Edge Compliance LTE B17
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 27
Operating Mode:	BE5MHz_25RBLow_ModulationQPSK_CH23755
Environmental Conditions:	Humidity: 35%rH; Temperature: 22°C
Operator:	RI

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	66-10777-001
HW Version:	9134G05
SW Version:	17.02.S.016
Serial Number:	2950006922
Connected Interfaces:	Main wiring + DTNA Antenna
Power Supply:	24V DC



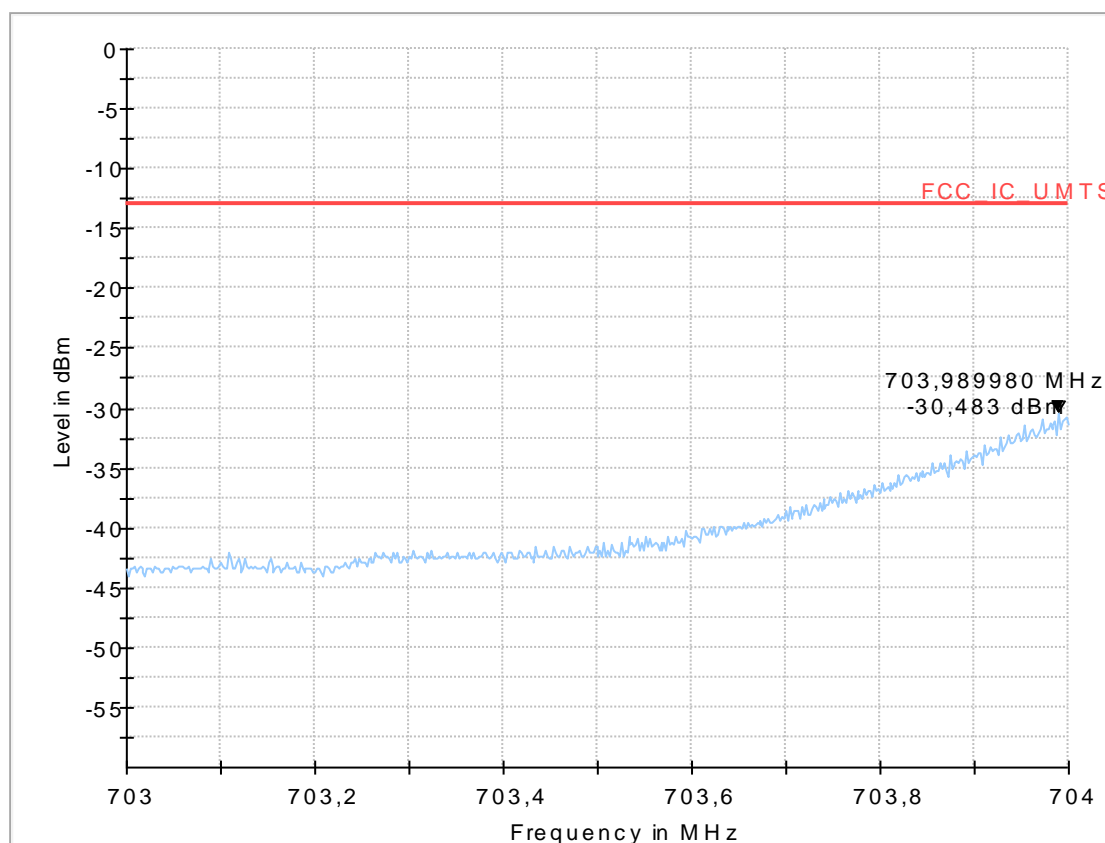
9.43_BE_LTE17_25RBLow_Ch23755_QAM

Common Information

Test Description:	Radiated Band Edge Compliance LTE B17
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 27
Operating Mode:	BE5MHz_25RBLow_ModulationQAM_CH23755
Environmental Conditions:	Humidity: 35%rH; Temperature: 22°C
Operator:	RI

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	66-10777-001
HW Version:	9134G05
SW Version:	17.02.S.016
Serial Number:	2950006922
Connected Interfaces:	Main wiring + DTNA Antenna
Power Supply:	24V DC



1.12.2. High Band-Edge

9.44_BE_R_Ch23800_QPSK_1high_BW10

Common Information

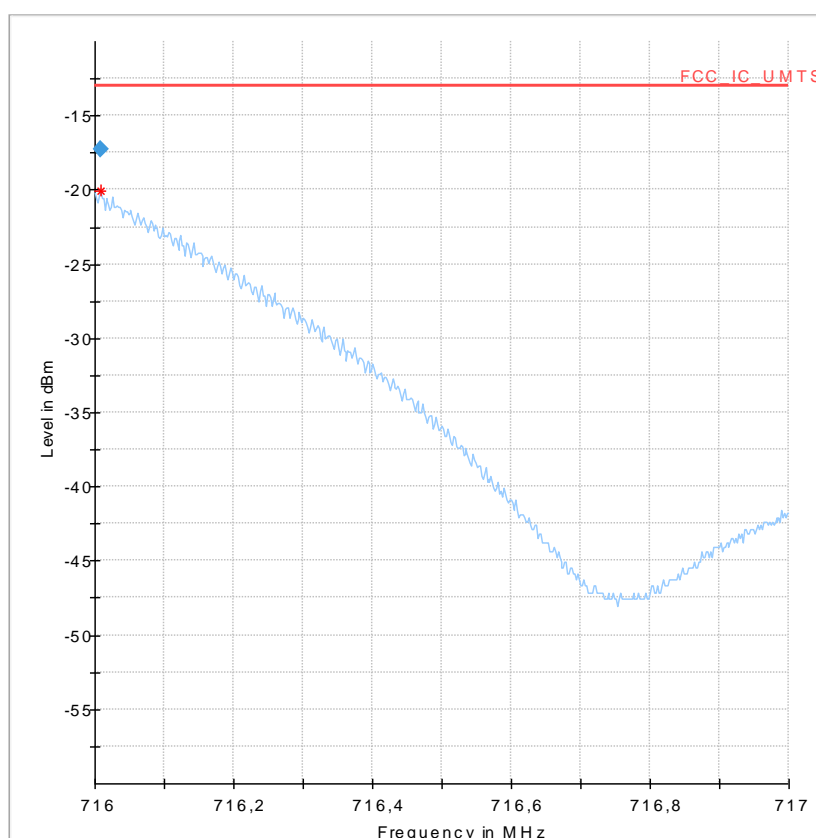
Test Description:	Band-Edge - Radiated Spurious Emissions LTE Band 17
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22 / RSS-133
Operating Mode:	BE10MHz_1high_ModulationQPSK_CH23800
Environmental Conditions:	Humidity: 35%rH; Temperature: 22°C
Operator:	TFr

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	66-10777-001

HW Version:	9134G05
SW Version:	17.02.S.016
Serial Number:	2950006922
Connected Interfaces:	Main wiring + DTNA Antenna
Power Supply:	24V DC

Full Spectrum



Final Result

Frequency (MHz)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
716.008016	-	4.32	100.0	H	179.0	90.0	-77.2

9.45_BE_R_Ch23800_QAM_1high_BW10

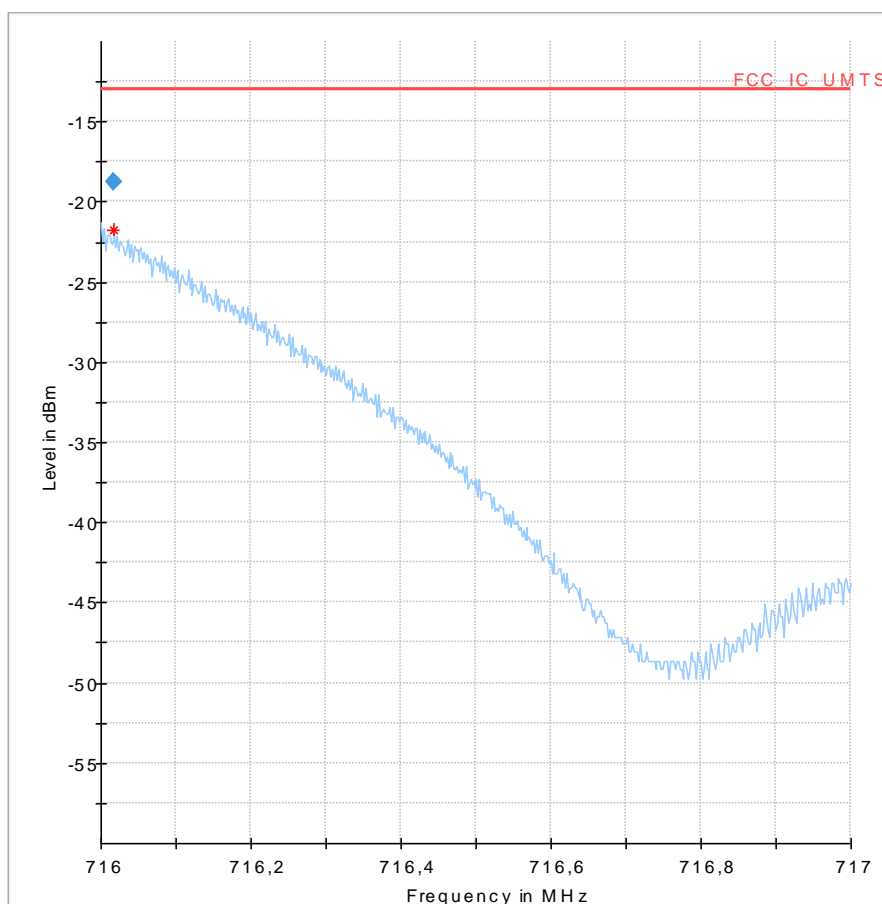
Common Information

Test Description:	Band-Edge - Radiated Spurious Emissions LTE Band 17
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22 / RSS-133
Operating Mode:	BE10MHz_1high_ModulationQAM_CH23800
Environmental Conditions:	Humidity: 35%rH; Temperature: 22°C
Operator:	TFr

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	66-10777-001
HW Version:	9134G05
SW Version:	17.02.S.016
Serial Number:	2950006922
Connected Interfaces:	Main wiring + DTNA Antenna
Power Supply:	24V DC

Full Spectrum



Final Result

Frequency (MHz)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
716.018036	-	5.74	100.0	H	178.0	90.0	-77.2

9.46_BE_R_Ch23800_QPSK_50RB_BW10

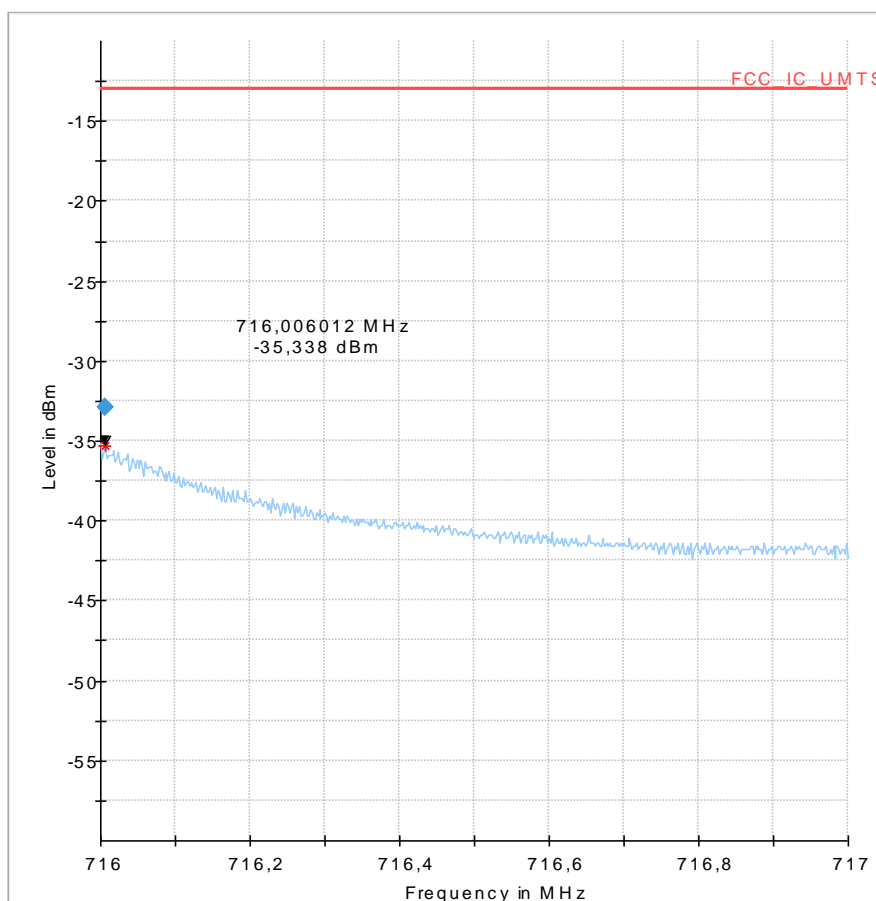
Common Information

Test Description:	Band-Edge - Radiated Spurious Emissions LTE Band 17
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22 / RSS-133
Operating Mode:	BE10MHz_50RB_ModulationQPSK_CH23800
Environmental Conditions:	Humidity: 35%rH; Temperature: 22°C
Operator:	TFr

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	66-10777-001
HW Version:	9134G05
SW Version:	17.02.S.016
Serial Number:	2950006922
Connected Interfaces:	Main wiring + DTNA Antenna
Power Supply:	24V DC

Full Spectrum



Final Result

Frequency (MHz)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
716.006012	-	19.90	100.0	H	186.0	90.0	-77.2

9.47_BE_R_Ch23800_QAM_50RB_BW10

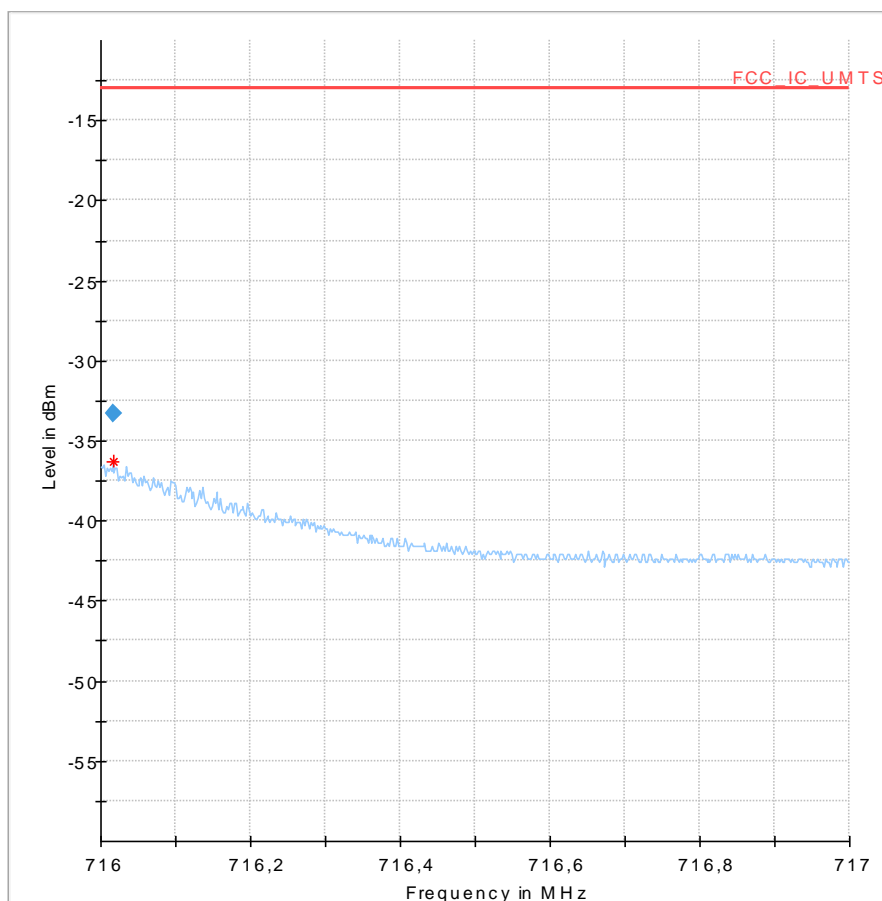
Common Information

Test Description:	Band-Edge - Radiated Spurious Emissions LTE Band 17
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22 / RSS-133
Operating Mode:	BE10MHz_50RB_ModulationQAM_CH23800
Environmental Conditions:	Humidity: 35%rH; Temperature: 22°C
Operator:	TFR

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	66-10777-001
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HW Version:	9134G05
SW Version:	17.02.S.016
Serial Number:	2950006922
Connected Interfaces:	Main wiring + DTNA Antenna
Power Supply:	24V DC

Full Spectrum



Final Result

Frequency (MHz)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
716.016032	-	20.35	100.0	H	179.0	90.0	-77.2