

Annex 1: Measurement diagrams to
TEST REPORT
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According to:
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 Part 22, Part 24, Part 27

ISED-Regulations
 RSS-132 Issue 3, RSS-133 Issue 6,
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for

peiker acoustic GmbH & Co. KG

GSM/ WCDMA/ LTE Telematics US Module
 V1231-0

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CETECOM GmbH Laboratory Radio Communications & Electromagnetic Compatibility Im Teelbruch 116 • 45219 Essen • Germany Registered in Essen, Germany, Reg. No.: HRB Essen 8984 Tel.: + 49 (0) 20 54 / 95 19-954 • Fax: + 49 (0) 20 54 / 95 19-964 E-mail: info@cetecom.com • Internet: www.cetecom.com		
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Table of contents

1. MEASUREMENT DIAGRAMS LTE-MODE	3
1.1. Power conducted LTE-Band 2.....	3
1.2. Power conducted LTE-Band 4.....	4
1.3. Power conducted LTE-Band 5.....	5
1.4. Power conducted LTE-Band 7.....	6
1.5. Power conducted LTE-Band 12.....	7
1.6. PAPR-Value (CCDF plots).....	8
1.7. Spurious emissions radiated (LTE Band 2).....	68
1.8. Spurious emissions radiated (LTE Band 4).....	81
1.9. Spurious emissions radiated (LTE Band 5).....	95
1.10. Spurious emissions radiated (LTE Band 12).....	109
1.11. Spurious emissions radiated (LTE Band 7).....	125
1.12. Radiated emissions – band-edge (LTE Band 2) with signal bandwidth of 1.4MHz.....	146
1.13. Radiated emissions – band-edge (LTE Band 4) with signal bandwidth of 1.4MHz.....	163
1.14. Radiated emissions – band-edge (LTE Band 5).....	180
1.15. Radiated emissions – band-edge (LTE Band 12).....	197
1.16. Radiated emissions – band-edge (LTE Band 7).....	214
1.17. 26dBc Emission bandwidth	221
1.18. 99% occupied bandwidth.....	303
1.19. Spurious emissions conducted (LTE Band 2).....	383
1.20. Spurious emissions conducted (LTE Band 4).....	389
1.21. Spurious emissions conducted (LTE Band 5).....	399
1.22. Spurious emissions conducted (LTE Band 7).....	411
1.23. Spurious emissions conducted (LTE Band 12).....	423
Conducted emissions – band - edge (LTE Band 2).....	435
1.24. Conducted emissions – band - edge (LTE Band 4).....	447
1.25. Conducted emissions – band - edge (LTE Band 5).....	459
1.26. Conducted emissions – band - edge (LTE Band 12).....	467
1.27. Conducted emissions – band - edge (LTE Band 7).....	476
1.28. Spektrum-Mask frequency error accord. RSS-130 (LTE Band 12)	500

1. Measurement diagrams LTE-mode

1.1. Power conducted LTE-Band 2

LTE-Band 2				QPSK-Modulation			16-QAM-Modulation			max. modulation QPSK	max. modulation 16QAM	max. bandwidth	absol. 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]				
14 MHz	18607	1890,7	1RB low	27,38	22,88	4,5024	27,484	22,205	5,2792	23,039	22,286	23,0386	
			1RB high	27,54	22,89	4,6526	27,519	22,074	5,4451				
			50%RB mid	27,57	23,04	4,5304	27,546	22,286	5,2591				
			100%RB	27,94	21,88	6,0583	27,633	20,939	6,6946				
	18900	1880	1RB low	27,48	22,5	4,9749	27,511	22,011	5,5001	22,583	22,011		
			1RB high	27,43	22,55	4,8822	27,508	21,846	5,6626				
			50%RB mid	27,57	22,58	4,9839	27,514	21,951	5,5634				
			100%RB	27,94	21,46	6,4832	27,575	20,601	6,9738				
	19193	1909,3	1RB low	26,81	22,17	4,6381	26,848	21,498	5,3506	22,296	21,546		
			1RB high	26,54	22,19	4,3484	26,66	21,546	5,3141				
			50%RB mid	26,66	22,3	4,3682	26,821	21,373	5,4477				
			100%RB	26,9	21,08	5,82	26,757	20,352	6,4056				
3 MHz	18615	1851,5	1RB low	27,22	23,05	4,3735	27,212	22,31	4,9036	23,052	22,376	23,0515	
			1RB high	27,27	22,96	4,3141	27,449	22,376	5,0722				
			50%RB mid	26,6	21,94	4,6632	27,192	22,084	5,3077				
			100%RB	27,48	21,85	5,624	27,278	20,998	6,2802				
	18900	1880	1RB low	27,26	22,64	4,6363	27,409	22,022	5,3866	22,642	22,022		
			1RB high	27,14	22,44	4,7001	27,277	21,873	5,4046				
			50%RB mid	26,36	21,49	4,8722	27,251	21,905	5,3465				
			100%RB	27,53	21,51	6,078	27,482	20,655	6,8272				
	19185	1908,5	1RB low	26,64	22,36	4,277	26,709	21,793	4,9299	22,364	21,793		
			1RB high	26,35	22,28	4,0732	26,384	21,45	4,9344				
			50%RB mid	25,86	21,13	4,735	26,536	21,423	5,128				
			100%RB	26,69	21,2	5,492	27,126	20,299	6,8268				
5 MHz	18625	1852,5	1RB low	27,48	23,25	4,2306	27,471	22,748	4,7229	23,225	22,748	23,2472	
			1RB high	27,35	23,03	4,3369	27,365	22,353	5,0135				
			50%RB mid	27,12	21,99	5,3355	27,366	22,119	5,2471				
			100%RB	27,43	21,93	5,5007	27,897	21	6,897				
	18900	1880	1RB low	27,64	23,24	4,4004	27,524	22,14	5,3845	23,237	22,14		
			1RB high	27,17	22,6	4,5685	27,185	22,002	5,3626				
			50%RB mid	26,85	21,45	5,4043	27,253	21,668	5,5844				
			100%RB	27,16	21,53	5,6234	27,447	20,575	6,8737				
	19175	1907,5	1RB low	26,87	22,58	4,2971	27,029	21,995	5,0342	22,577	21,995		
			1RB high	26,36	22,24	4,1841	26,469	21,734	4,7395				
			50%RB mid	26,3	21,12	5,289	26,601	21,314	5,2864				
			100%RB	26,69	21,11	5,5774	27	20,206	6,7936				
10 MHz	18650	1855	1RB low	27,76	23,61	4,3447	27,816	23,062	4,754	23,61	23,06	23,61	
			1RB high	27,67	23,36	4,3095	27,744	22,775	4,9694				
			50%RB mid	27,09	22,05	5,042	26,944	21,218	5,7262				
			100%RB	28,17	22,17	5,9964	27,589	21,112	6,477				
	18900	1880	1RB low	27,55	23,08	4,4664	27,711	22,344	5,3664	23,082	22,344		
			1RB high	27,03	22,48	4,5447	27,132	21,977	5,358				
			50%RB mid	26,81	21,59	5,2233	26,295	20,599	5,6954				
			100%RB	28,11	21,62	6,4853	27,4	20,695	6,7048				
	19150	1905	1RB low	27,02	22,85	4,1713	27,052	22,431	4,6209	22,85	22,431		
			1RB high	26,46	22,36	4,0974	26,426	21,711	4,7146				
			50%RB mid	26,2	21,37	4,8335	25,929	20,321	5,6076				
			100%RB	27,28	21,42	5,8634	27,627	20,331	7,2961				
15 MHz	18675	1857,5	1RB low	27,83	23,35	4,4832	27,892	22,75	5,3439	23,544	22,895	23,5443	
			1RB high	28,19	23,54	4,641	28,047	22,895	5,3525				
			50%RB mid	27,5	22,22	5,2824	27,84	22,314	5,526				
			100%RB	28,24	22,28	5,9603	28,317	21,386	6,9306				
	18900	1880	1RB low	27,33	22,96	4,3724	27,356	22,577	4,779	22,999	22,577		
			1RB high	27,07	22,56	4,5067	27,261	22,386	4,875				
			50%RB mid	26,63	21,5	5,1226	27,261	21,689	5,572				
			100%RB	28,11	21,63	6,4839	27,768	20,704	7,0637				
	19125	1902,5	1RB low	26,8	22,59	4,2044	26,983	22,143	4,8397	22,594	22,143		
			1RB high	26,58	22,56	4,0238	26,498	22,066	4,4321				
			50%RB mid	26,32	21,25	5,0669	26,618	21,324	5,2934				
			100%RB	27,65	21,32	6,3288	27,239	20,336	6,9033				
20 MHz	18700	1860	1RB low	28,06	23,45	4,6081	28,146	22,961	5,3852	23,91	22,961	23,91	
			1RB high	28,32	23,91	4,4052	28,222	22,944	5,2773				
			50%RB mid	27,52	22,35	5,1277	27,862	22,333	5,529				
			100%RB	28,61	22,49	6,245	28,003	21,525	6,4779				
	18900	1880	1RB low	27,61	23,47	4,192	27,422	22,567	4,8547	23,467	22,567		
			1RB high	27,12	22,8	4,3358	27,288	22,322	4,9669				
			50%RB mid	26,61	21,56	5,0542	27,155	21,639	5,582				
			100%RB	27,91	21,69	6,2393	27,949	20,716	7,2326				
	19100	1900	1RB low	27	22,71	4,2939	27,016	22,031	4,9848	22,711	22,253		
			1RB high	26,63	22,62	4,0071	26,728	22,253	4,475				
			50%RB mid	26,23	21,29	4,9471	26,675	21,365	5,3095				
			100%RB	27,73	21,52	6,235	27,364	20,676	6,6889				

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 Factor [dB]	Peak detector [dBm]	RMS detector [dBm]	PAR Factor [dB]				
14 MHz	19957	1730,7	1RB low	27,23	22,61	4,6387	27,247	22,112	5,1341	22,734	22,302	23,5082	
			1RB high	27,34	22,73	4,6053	27,441	22,012	5,4289				
			50%RB mid	27,43	22,71	4,7203	27,443	22,089	5,3533				
			100%RB	27,69	21,55	6,1334	27,406	20,693	6,7136				
	20175	1732,5	1RB low	27,66	23,09	4,5668	27,556	22,462	5,0942	23,094	22,462		
			1RB high	27,59	22,98	4,6122	27,544	22,266	5,278				
			50%RB mid	27,7	23,09	4,6084	27,624	22,174	5,4497				
			100%RB	27,78	21,99	5,7882	27,637	21,104	6,5336				
	20393	1754,3	1RB low	27,89	23,45	4,4465	27,968	22,754	5,2134	23,508	22,76		
			1RB high	27,94	23,46	4,4749	28,061	22,746	5,3344				
			50%RB mid	27,98	23,51	4,4696	27,902	22,76	5,3427				
			100%RB	28,17	22,38	5,7907	27,728	21,363	6,3653				
3 MHz	19965	1711,5	1RB low	27,25	22,94	4,311	27,21	22,286	4,924	22,941	22,286	23,5508	
			1RB high	27,04	22,67	4,3698	26,941	22,139	4,8032				
			50%RB mid	26,48	21,95	4,5298	26,945	21,865	5,0796				
			100%RB	27,46	21,8	5,6632	27,201	20,817	6,3841				
	20175	1732,5	1RB low	27,43	23,13	4,3013	27,367	22,491	4,8762	23,132	22,675		
			1RB high	27,46	23,01	4,4524	27,512	22,675	4,8371				
			50%RB mid	26,65	22,08	4,5717	27,324	22,277	5,047				
			100%RB	27,63	21,96	5,6637	27,709	21,139	6,5704				
	20385	1753,5	1RB low	27,74	23,55	4,3854	27,816	23,142	4,6733	23,551	23,342		
			1RB high	27,66	23,44	4,2265	27,622	22,949	4,6734				
			50%RB mid	26,94	22,5	4,4424	27,677	22,763	4,9337				
			100%RB	28,25	22,46	5,7962	27,825	21,548	6,2774				
5 MHz	19975	1712,5	1RB low	27,37	23,03	4,3433	27,335	22,379	4,9558	23,028	22,379	23,6434	
			1RB high	27,2	22,78	4,424	27,189	22,161	5,0283				
			50%RB mid	26,83	21,66	5,1731	27,199	21,948	5,2514				
			100%RB	27,76	21,72	6,0394	27,781	20,842	6,9388				
	20175	1732,5	1RB low	27,47	23,26	4,2111	27,478	22,447	5,0335	23,263	22,466		
			1RB high	27,35	23,06	4,2896	27,434	22,466	4,9681				
			50%RB mid	27,1	22,09	5,0028	27,409	22,331	5,0784				
			100%RB	27,43	21,96	5,4711	27,882	21,198	6,6846				
	20375	1752,5	1RB low	27,89	23,64	4,2539	27,887	23,016	4,8711	23,641	23,035		
			1RB high	27,64	23,56	4,0849	27,7	22,807	4,8931				
			50%RB mid	27,46	22,5	4,9524	27,747	22,725	5,0238				
			100%RB	28,24	22,48	5,7579	28,45	21,546	6,9033				
10 MHz	20000	1715	1RB low	27,43	22,98	4,4498	27,481	22,482	4,999	23,01	22,521	24,05	
			1RB high	27,5	23,01	4,4868	27,495	22,521	4,9734				
			50%RB mid	26,73	21,67	5,0638	26,571	20,865	5,7062				
			100%RB	27,43	21,72	5,7811	27,831	20,664	7,3671				
	20175	1732,5	1RB low	27,4	23,21	4,2005	27,378	22,659	4,7888	23,49	23,067		
			1RB high	27,75	23,49	4,2636	27,8	23,067	4,7328				
			50%RB mid	26,92	21,99	4,9343	26,589	21,148	5,441				
			100%RB	28,22	22,03	6,3821	27,771	21,152	6,6384				
	20350	1750	1RB low	28,19	24,05	4,3499	27,994	23,053	4,9435	24,05	23,405		
			1RB high	27,91	23,97	3,9436	27,998	23,405	4,5934				
			50%RB mid	27,36	22,50	4,8531	26,902	21,541	5,3635				
			100%RB	28,54	22,44	6,0994	28,302	21,457	6,8451				
15 MHz	20025	1717,5	1RB low	27,96	23,48	4,4785	27,921	22,928	4,9939	23,483	22,928	23,954	
			1RB high	27,56	23,01	4,5563	27,611	22,306	5,3046				
			50%RB mid	27,23	22,12	5,3071	27,657	22,296	5,3633				
			100%RB	28,41	22,02	6,3878	27,996	21,092	6,9042				
	20175	1732,5	1RB low	27,39	23,23	4,3674	27,372	22,61	4,7639	23,227	22,61		
			1RB high	27,39	23,07	4,3211	27,536	22,576	4,9597				
			50%RB mid	27,14	22,21	4,9334	27,607	22,418	5,3886				
			100%RB	28,43	22,15	6,2789	28,163	21,175	6,9877				
	20325	1747,5	1RB low	28,11	23,95	4,566	27,614	22,785	4,8289	23,954	23,246		
			1RB high	27,81	23,72	4,081	27,86	23,246	4,6342				
			50%RB mid	27,46	22,64	4,8391	27,905	22,731	5,1743				
			100%RB	28,4	22,52	5,8856	28,275	21,504	6,7705				
20 MHz	20050	1720	1RB low	28,13	23,53	4,6035	28,329	23,095	5,2341	23,53	23,095	23,8254	
			1RB high	27,72	22,97	4,7502	27,657	22,455	5,2081				
			50%RB mid	27,41	22,17	5,2423	27,933	22,215	5,7885				
			100%RB	28,18	22,02	6,3646	28,09	21,093	6,997				
	20175	1732,5	1RB low	27,37	23,19	4,1798	27,383	22,797	4,5855	23,254	22,797		
			1RB high	27,51	23,25	4,2561	27,547	22,723	4,8237				
			50%RB mid	27,07	22,2	4,8729	27,554	22,365	5,3895				
			100%RB	28,5	22,19	6,3174	27,948	21,254	6,694				
	20300	1745	1RB low	27,54	23,36	4,383	27,566	22,635	4,9335	23,825	23,381		
			1RB high	27,84	23,83	4,0352	27,945	23,181	4,7636				
			50%RB mid	27,38	22,57	4,8123	27,945	22,788	5,569				
			100%RB	28,62	22,45	6,1711	28,334	21,642	6,6936				

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	27,38	23,11	4,2764	27,176	22,425	4,7508	23,38	22,42	23,38	
			1RB high	27,46	23,18	4,2756	27,328	22,342	4,9858				
			50%RB mid	27,61	23,06	4,5482	27,572	22,289	5,2836				
			100%RB	28,04	21,91	6,131	27,823	20,95	6,8731				
	20525	836.5	1RB low	27,95	23,1	4,8485	27,972	22,469	5,503	23,38	22,56		
			1RB high	27,97	23,22	4,756	27,974	22,538	5,4361				
			50%RB mid	28,40	23,38	5,0204	28,33	22,564	5,7662				
			100%RB	28,12	22,36	5,7586	28,212	21,465	6,7473				
	20643	848.3	1RB low	28,01	23,33	4,6781	28,042	23,015	5,0273	23,37	23,05		
			1RB high	28,07	23,37	4,6928	28,101	22,721	5,3804				
			50%RB mid	28,23	23,29	4,9409	28,53	23,047	5,4825				
			100%RB	28,69	22,52	6,1702	28,185	21,594	6,5908				
3 MHz	20435	825.5	1RB low	27,36	23,24	4,118	27,457	22,565	4,8922	23,24	22,57	23,65	
			1RB high	27,59	23,21	4,3722	27,445	22,522	4,9229				
			50%RB mid	26,8	22,11	4,6951	27,47	22,414	5,0556				
			100%RB	27,75	22,16	5,5916	27,441	21,099	6,3438				
	20525	836.5	1RB low	28,23	23,65	4,5814	28,05	22,549	5,5008	23,65	22,86		
			1RB high	27,98	23,52	4,4657	27,983	22,811	5,1719				
			50%RB mid	27,43	22,48	4,9436	28,115	22,865	5,25				
			100%RB	28,44	22,35	6,0885	28,453	21,272	7,1807				
	20635	847.5	1RB low	27,65	23,29	4,3633	27,934	22,922	5,012	23,31	23,15		
			1RB high	27,79	23,31	4,4815	28,267	23,153	5,1142				
			50%RB mid	27,56	22,75	4,8097	28,151	22,929	5,2224				
			100%RB	28,49	22,77	5,7155	28,071	21,672	6,3996				
5 MHz	20425	826.5	1RB low	27,63	23,62	4,0096	27,553	22,644	4,9095	23,65	22,91	23,73	
			1RB high	28,03	23,65	4,3843	27,779	22,908	4,8705				
			50%RB mid	27,31	22,03	5,2769	27,798	22,555	5,2435				
			100%RB	27,66	22,09	5,5704	28,275	21,171	7,1042				
	20525	836.5	1RB low	28,28	23,73	4,5584	28,133	22,769	5,3643	23,73	22,93		
			1RB high	27,88	23,40	4,4834	28,042	22,927	5,1144				
			50%RB mid	27,64	22,22	5,4286	28,253	22,61	5,6428				
			100%RB	27,99	22,13	5,8671	28,601	21,266	7,3354				
	20625	846.5	1RB low	27,57	23,29	4,2732	27,757	22,831	4,9258	23,36	23,63		
			1RB high	27,81	23,36	4,4454	28,454	23,629	4,8253				
			50%RB mid	27,89	22,61	5,2779	28,204	22,876	5,3281				
			100%RB	29,18	22,69	6,4892	28,584	21,808	6,7764				
10 MHz	20450	829	1RB low	27,36	22,98	4,3813	27,432	22,411	5,0201	23,09	22,82	23,36	
			1RB high	27,94	23,09	4,8492	27,926	22,817	5,1092				
			50%RB mid	27,73	22,34	5,3887	27,185	21,41	5,7744				
			100%RB	28,16	22,04	6,1217	28,513	21,073	7,4398				
	20525	836.5	1RB low	27,83	23,18	4,6559	27,691	22,44	5,2514	23,36	22,72		
			1RB high	27,66	23,36	4,2982	27,642	22,723	4,9192				
			50%RB mid	27,6	22,17	5,4284	27,287	21,404	5,8823				
			100%RB	28,57	22,16	6,4115	28,521	21,12	7,4011				
	20600	844	1RB low	27,62	23,29	4,336	27,71	22,751	4,9592	23,29	22,75		
			1RB high	27,65	23,26	4,3941	27,787	22,641	5,1462				
			50%RB mid	27,48	22,46	5,0211	27,064	21,405	5,6592				
			100%RB	28,69	22,32	6,3694	28,095	21,29	6,8054				

1.4. Power conducted LTE-Band 7

LTE-Band 7				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	20775		1RB low	26,14	22,08	4,0567	26,16	21,329	4,8311	22,082			
			1RB high	26	21,83	4,1749	25,923	21,15	4,7733				
			50%RB mid	25,64	20,7	4,9463	25,887	20,933	4,9538				
			100%RB	26,49	20,73	5,7591	26,245	19,86	6,3844				
	21100		1RB low	26,13	21,67	4,4642	26,234	21,008	5,226	21,666	22,082	22,08	
			1RB high	25,81	21,44	4,3617	25,82	20,843	4,9775				
			50%RB mid	25,51	20,38	5,1355	25,888	20,481	5,4066				
			100%RB	26,49	20,3	6,1863	26,631	19,447	7,1842				
	21425		1RB low	26,33	21,78	4,5577	26,245	21,035	5,2107	21,776			
			1RB high	25,94	21,49	4,455	25,873	20,923	4,9496				
			50%RB mid	25,8	20,47	5,3378	26,199	20,74	5,4598				
			100%RB	26,82	20,41	6,4121	26,73	19,527	7,2034				
10 MHz	20800		1RB low	26,61	22,46	4,1511	26,645	21,813	4,8326	22,463			
			1RB high	26,65	22,19	4,4564	26,778	21,941	4,8373				
			50%RB mid	25,65	20,82	4,8244	25,341	19,946	5,3958				
			100%RB	26,75	21	5,7439	26,335	20,055	6,2807				
	21000		1RB low	26,54	22,02	4,5179	26,452	21,22	5,2326	22,024	22,463	22,46	
			1RB high	26,08	21,81	4,2719	26,186	21,419	4,7668				
			50%RB mid	25,44	20,42	5,0193	24,998	19,481	5,5162				
			100%RB	26,76	20,6	6,1657	26,399	19,666	6,733				
	21400	2565MHz	1RB low	26,31	21,86	4,4518	26,263	21,269	4,9938	21,86			
			1RB high	26,2	21,8	4,3946	26,243	21,361	4,8817				
			50%RB mid	25,7	20,55	5,1445	25,256	19,585	5,6714				
			100%RB	26,97	20,66	6,3036	26,656	19,784	6,8722				
15 MHz	20825		1RB low	26,69	22,34	4,3467	26,331	21,734	4,5966	22,345			
			1RB high	26,73	22,01	4,7253	26,874	21,534	5,3397				
			50%RB mid	25,7	20,78	4,9184	26,473	21,154	5,319				
			100%RB	27,07	20,91	6,1596	26,853	20,04	6,8123				
	21100		1RB low	26,42	21,98	4,4435	26,564	21,663	4,9011	21,979	22,34	22,34	
			1RB high	26,25	21,74	4,5106	26,33	21,242	5,0886				
			50%RB mid	25,56	20,54	5,0201	26,119	20,638	5,4818				
			100%RB	27,16	20,57	6,5977	26,846	19,633	7,2128				
	21375		1RB low	25,91	21,52	4,3873	25,874	20,881	4,9929	21,52			
			1RB high	25,86	21,52	4,3433	25,831	20,933	4,898				
			50%RB mid	25,46	20,33	5,1235	26,154	20,596	5,5578				
			100%RB	26,99	20,46	6,5296	26,416	19,404	7,0118				
20 MHz	20850		1RB low	26,77	22,46	4,3119	26,626	21,542	5,0844	22,455			
			1RB high	26,84	21,97	4,8719	27,014	21,54	5,4746				
			50%RB mid	26	20,84	5,162	26,575	20,951	5,6245				
			100%RB	27,18	20,91	6,2688	27,153	19,926	7,2278				
	21100		1RB low	26,36	21,94	4,4212	26,563	21,756	4,8069	21,938	22,455	22,46	
			1RB high	26,21	21,82	4,3863	26,246	21,055	5,1903				
			50%RB mid	25,59	20,52	5,0737	26,184	20,574	5,6101				
			100%RB	26,86	20,62	6,2402	26,944	19,653	7,2917				
	21300		1RB low	25,9	21,67	4,2221	25,855	21,196	4,6596	21,674			
			1RB high	26	21,64	4,3591	26,028	20,778	5,25				
			50%RB mid	25,25	20,37	4,8788	26,06	20,544	5,558				
			100%RB	26,64	20,45	6,1911	26,338	19,455	6,8828				

1.5. Power conducted LTE-Band 12

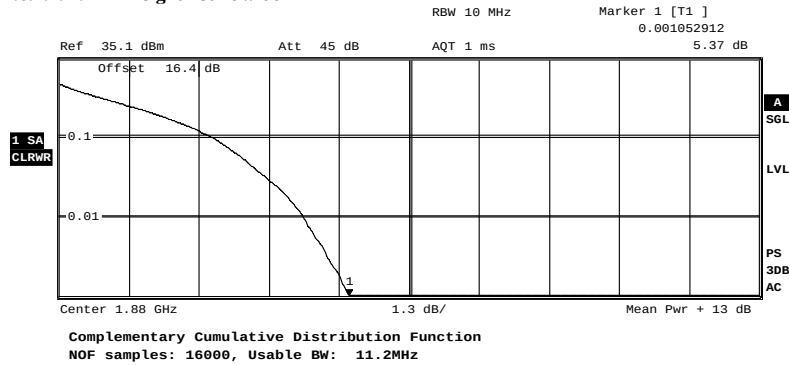
LTE-Band 12				QPSK-Modulation			16-QAM-Modulation			max. modulation QPSK	max. modulation 16-QAM	max. channel	absolute max. value
channel bandwidth	ARFCN ch. no.	ARFCN-Frequency [MHz]	Resource block allocation	Peak detector [dBm]	RMS detector [dBm]	PAR Faktor [dB]	Peak detector [dBm]	RMS detector [dBm]	PAR Faktor [dB]				
14 MHz	23017	699.7	1RB low	27,50	22,50	5,00	27,59	22,23	5,37	22,81	22,23	22,85	23,21
			1RB high	27,55	22,71	4,84	27,61	22,10	5,51				
			50%RB mid	27,71	22,81	4,90	27,80	22,23	5,57				
			100%RB	28,19	21,76	6,42	27,84	20,80	7,04				
	23095	707.5	1RB low	27,44	22,66	4,78	27,57	21,89	5,68	22,77	21,89		
			1RB high	27,43	22,62	4,82	27,61	21,54	6,07				
			50%RB mid	27,75	22,77	4,99	27,94	21,45	6,49				
			100%RB	28,00	21,48	6,53	28,11	20,34	7,76				
	23173	715.3	1RB low	27,53	22,85	4,68	27,76	21,04	6,72	22,85	22,02		
			1RB high	27,48	22,53	4,95	27,53	22,02	5,51				
			50%RB mid	27,65	22,45	5,19	27,65	21,72	5,93				
			100%RB	27,90	21,58	6,32	27,30	20,27	7,03				
3 MHz	23025	700.5	1 RB low	27,38	22,84	4,54	27,57	22,22	5,35	22,97	22,36		
			1 RB high	27,52	22,97	4,54	27,69	22,36	5,33				
			50% RB mid	26,80	21,93	4,88	27,07	21,14	5,93				
			100% RB	28,04	21,89	6,14	27,94	21,05	6,89				
	23095	707.5	1 RB low	27,44	22,75	4,70	27,55	21,52	6,03	22,75	21,70		
			1 RB high	27,31	22,70	4,61	27,41	21,70	5,71				
			50% RB mid	26,82	21,67	5,15	26,80	20,97	5,83				
			100% RB	27,92	21,62	6,30	27,42	20,62	6,80				
	23165	714.5	1 RB low	27,31	22,59	4,72	27,38	21,80	5,58	22,82	21,80		
			1 RB high	27,24	22,82	4,42	27,28	21,55	5,73				
			50% RB mid	26,72	21,73	5,00	26,84	20,82	6,02				
			100% RB	27,58	21,64	5,93	28,01	20,70	7,31				
5 MHz	23035	701.5	1 RB low	27,47	22,89	4,58	27,53	22,25	5,28	23,21	22,26		
			1 RB high	27,73	23,21	4,52	27,86	22,26	5,61				
			50% RB mid	27,24	21,86	5,37	27,65	21,74	5,91				
			100% RB	27,99	21,88	6,10	28,11	20,74	7,37				
	23095	707.5	1 RB low	27,50	22,71	4,79	27,55	21,66	5,88	22,71	22,39		
			1 RB high	27,35	22,60	4,76	27,49	21,53	5,96				
			50% RB mid	27,07	21,75	5,32	27,65	22,19	5,46				
			100% RB	27,43	21,64	5,79	28,10	20,50	7,60				
	23155	713.5	1 RB low	27,37	22,74	4,63	27,46	21,78	5,67	22,74	22,07		
			1 RB high	27,31	22,64	4,67	27,40	22,07	5,34				
			50% RB mid	27,06	21,65	5,40	27,80	21,65	6,15				
			100% RB	27,58	21,61	5,97	28,54	20,88	7,66				
10 MHz	23060	704	1 RB low	27,71	23,06	4,64	27,73	22,56	5,17	23,06	22,56		
			1 RB high	27,74	22,97	4,77	27,81	21,90	5,91				
			50% RB mid	27,43	21,82	5,61	27,37	20,96	6,41				
			100% RB	28,08	21,93	6,15	28,36	21,04	7,32				
	23095	707.5	1 RB low	27,50	22,85	4,65	27,65	22,54	5,11	22,85	22,54		
			1 RB high	27,40	22,75	4,66	27,40	21,90	5,49				
			50% RB mid	27,07	21,73	5,34	27,07	20,83	6,24				
			100% RB	28,33	21,87	6,46	28,30	20,66	7,63				
	23130	711	1 RB low	27,33	22,73	4,60	27,45	21,65	5,79	22,81	21,98		
			1 RB high	27,26	22,81	4,46	27,30	21,98	5,32				
			50% RB mid	27,13	21,72	5,41	27,10	20,62	6,48				
			100% RB	27,86	21,92	5,94	27,57	20,67	6,90				

1.6. PAPR-Value (CCDF plots)

1.6.1. LTE Band 2

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

1.6.1.1. 1.4MHz signal bandwidth



Trace 1

Mean 21.61 dBm

Peak 27.64 dBm

Crest 6.03 dB

10 % 2.83 dB

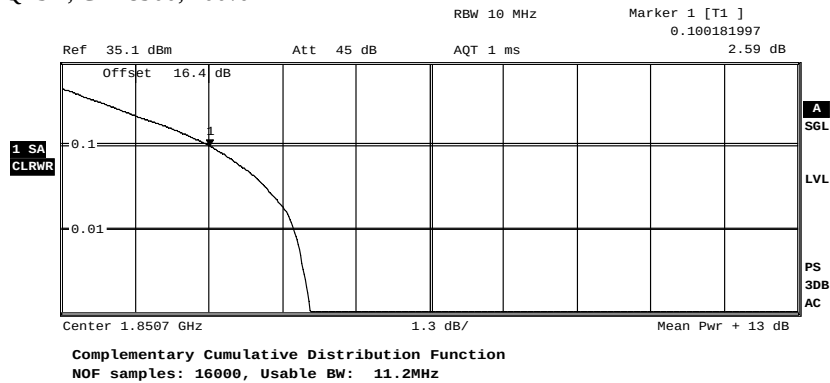
1 % 4.54 dB

.1 % 5.40 dB

.01 % 5.98 dB

Date: 2.MAY.2017 14:04:12

QPSK, CH18900, 100% RB



Trace 1

Mean 22.95 dBm

Peak 27.41 dBm

Crest 4.46 dB

10 % 2.60 dB

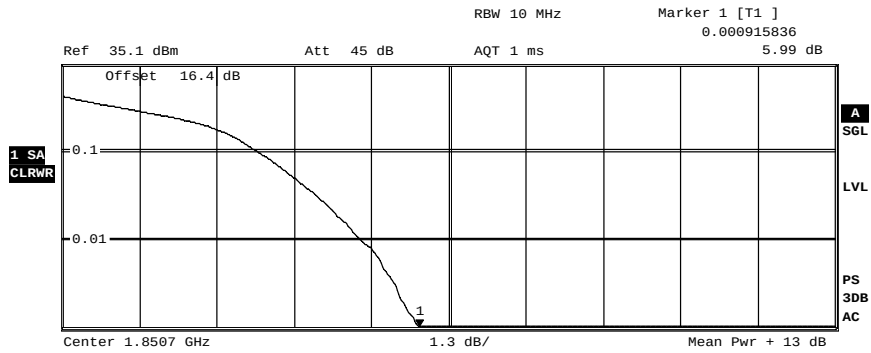
1 % 4.10 dB

.1 % 4.40 dB

.01 % 4.46 dB

Date: 2.MAY.2017 13:53:04

QPSK, 1.4MHz CH18607, 50% RB



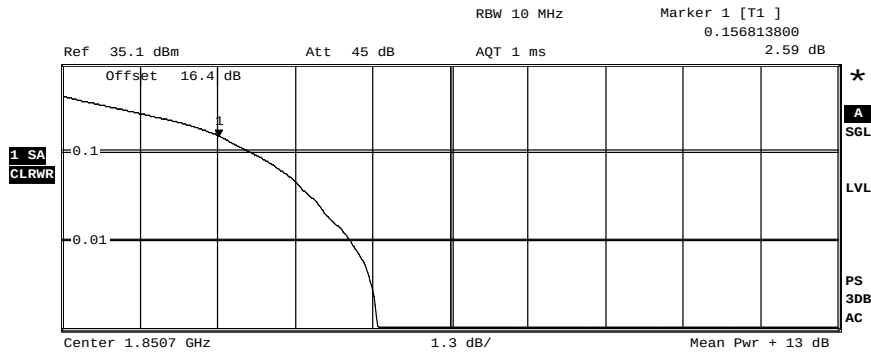
Complementary Cumulative Distribution Function
NOF samples: 16000, Usable BW: 11.2MHz

Trace 1

Mean	20.88 dBm
Peak	27.27 dBm
Crest	6.39 dB
10 %	3.29 dB
1 %	5.00 dB
.1 %	5.98 dB
.01 %	6.31 dB

Date: 2.MAY.2017 14:00:23

QAM, 1.4MHz CH18607, 100% RB



Complementary Cumulative Distribution Function
NOF samples: 16000, Usable BW: 11.2MHz

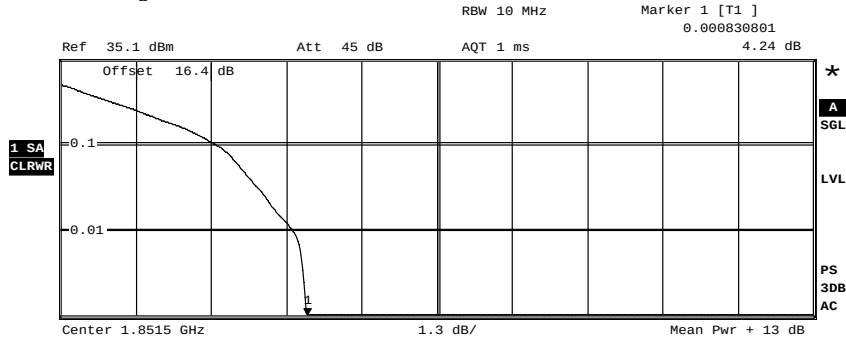
Trace 1

Mean	22.05 dBm
Peak	27.41 dBm
Crest	5.36 dB
10 %	3.17 dB
1 %	4.81 dB
.1 %	5.29 dB
.01 %	5.35 dB

Date: 2.MAY.2017 13:57:47

QAM, 1.4MHz CH18607, 50% RB

1.6.1.2. 3MHz signal bandwidth



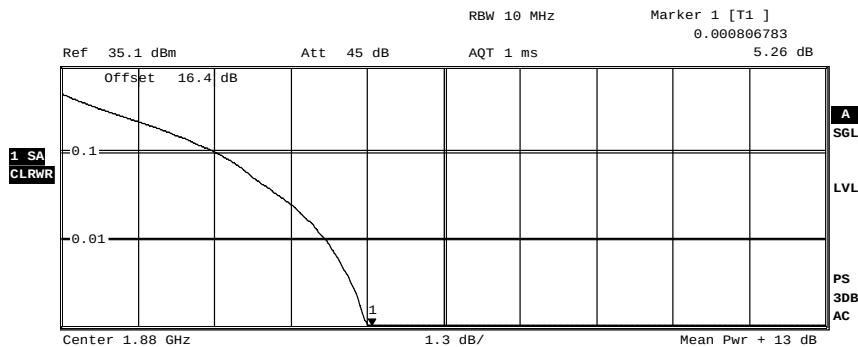
Complementary Cumulative Distribution Function
NOF samples: 16000, Usable BW: 11.2MHz

Trace 1

Mean	22.88 dBm
Peak	27.21 dBm
Crest	4.33 dB
10 %	2.69 dB
1 %	4.00 dB
.1 %	4.25 dB
.01 %	4.31 dB

Date: 2.MAY.2017 14:24:06

QPSK, 3MHz CH18615, 1 RB low



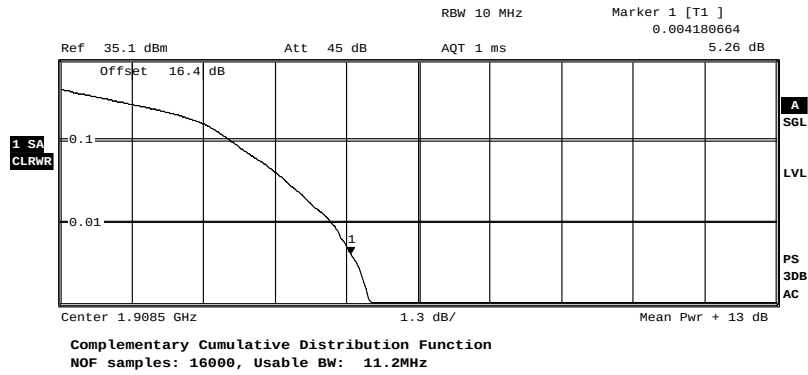
Complementary Cumulative Distribution Function
NOF samples: 16000, Usable BW: 11.2MHz

Trace 1

Mean	21.65 dBm
Peak	27.43 dBm
Crest	5.78 dB
10 %	2.63 dB
1 %	4.50 dB
.1 %	5.23 dB
.01 %	5.60 dB

Date: 2.MAY.2017 14:37:00

QPSK, 3MHz CH18900, 100% RB

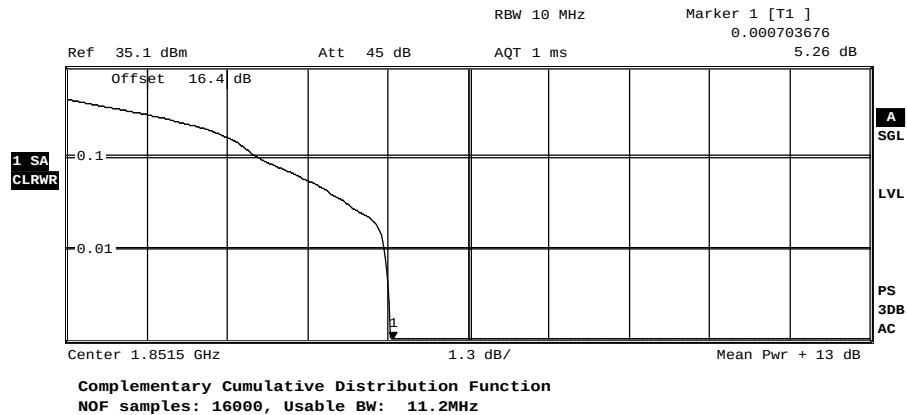


Trace 1

Mean	20.29 dBm
Peak	26.44 dBm
Crest	6.16 dB
10 %	3.10 dB
1 %	4.92 dB
.1 %	5.65 dB
.01 %	6.06 dB

Date: 2.MAY.2017 14:46:10

QAM, 3MHz CH19185, 100% RB



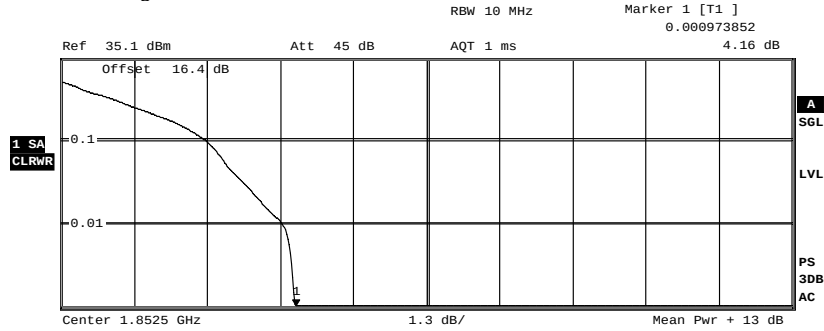
Trace 1

Mean	22.04 dBm
Peak	27.42 dBm
Crest	5.38 dB
10 %	3.10 dB
1 %	5.15 dB
.1 %	5.25 dB
.01 %	5.33 dB

Date: 2.MAY.2017 14:27:29

QAM, 3MHz CH18615, 1 RB high.WMF

1.6.1.3. 5MHz signal bandwidth



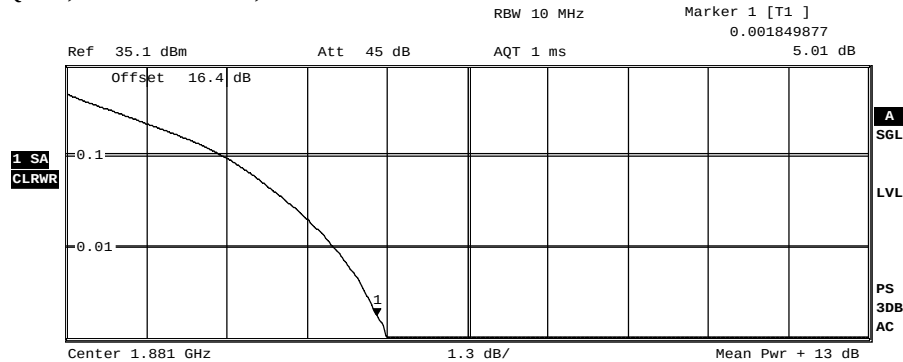
Complementary Cumulative Distribution Function
NOF samples: 16000, Usable BW: 11.2MHz

Trace 1
Mean 23.01 dBm
Peak 27.28 dBm
Crest 4.27 dB

10 % 2.58 dB
1 % 3.92 dB
.1 % 4.17 dB
.01 % 4.23 dB

Date: 2.MAY.2017 15:06:38

QPSK, 5MHz CH18625, 1 RB low



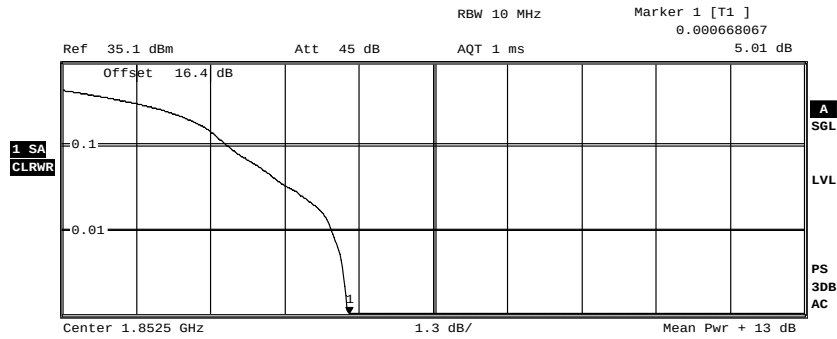
Complementary Cumulative Distribution Function
NOF samples: 16000, Usable BW: 11.2MHz

Trace 1
Mean 21.61 dBm
Peak 27.58 dBm
Crest 5.97 dB

10 % 2.52 dB
1 % 4.33 dB
.1 % 5.19 dB
.01 % 5.88 dB

Date: 2.MAY.2017 15:16:15

QPSK, 5MHz CH18900 100 RB.WMF



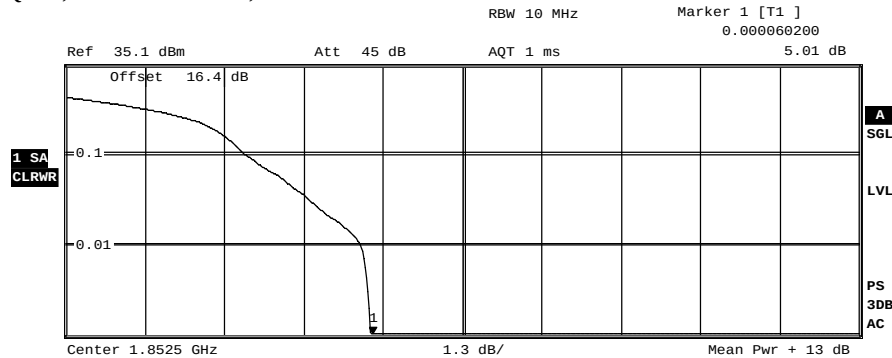
Complementary Cumulative Distribution Function
NOF samples: 16000, Usable BW: 11.2MHz

Trace 1
Mean 22.34 dBm
Peak 27.49 dBm
Crest 5.15 dB

10 % 2.90 dB
1 % 4.73 dB
.1 % 5.00 dB
.01 % 5.08 dB

Date: 2.MAY.2017 15:08:15

QAM, 5MHz CH18625, 1 RB low



Complementary Cumulative Distribution Function
NOF samples: 16000, Usable BW: 11.2MHz

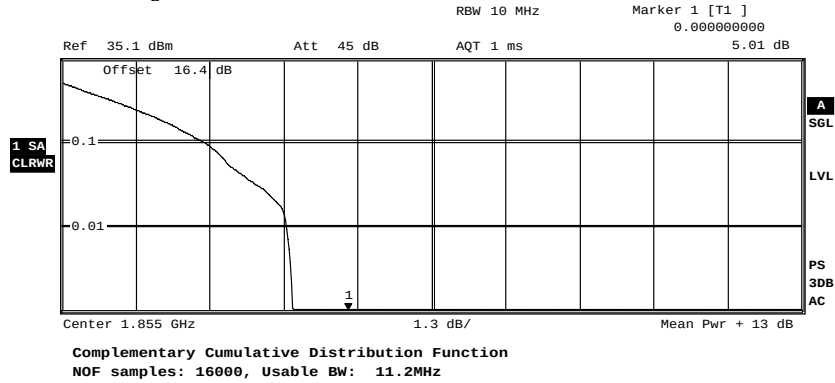
Trace 1
Mean 22.27 dBm
Peak 27.35 dBm
Crest 5.08 dB

10 % 2.94 dB
1 % 4.83 dB
.1 % 5.00 dB
.01 % 5.02 dB

Date: 2.MAY.2017 15:09:27

QAM, 5MHz CH18625, 100 RB.WMF

1.6.1.4. 10MHz signal bandwidth

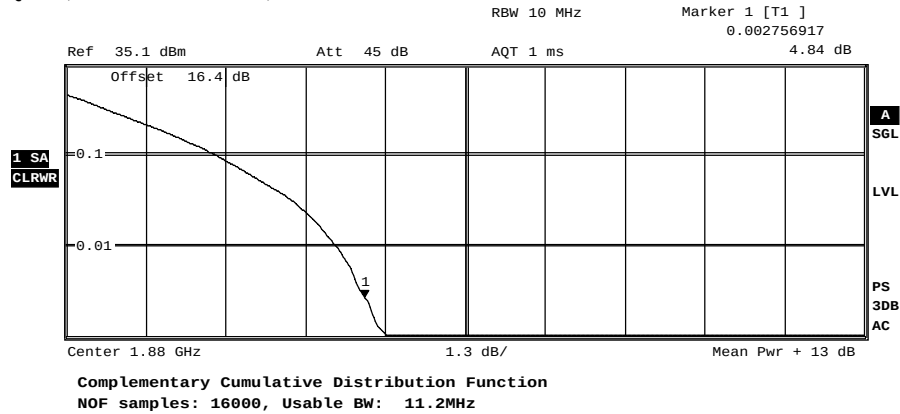


Trace 1

Mean	23.11 dBm
Peak	27.30 dBm
Crest	4.19 dB
10 %	2.52 dB
1 %	3.96 dB
.1 %	4.06 dB
.01 %	4.13 dB

Date: 2.MAY.2017 15:19:06

QPSK, 10MHz CH18650, 1 RB low

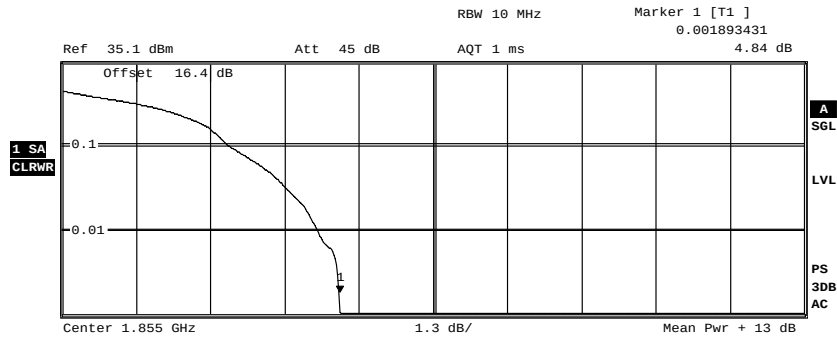


Trace 1

Mean	21.81 dBm
Peak	27.99 dBm
Crest	6.19 dB
10 %	2.44 dB
1 %	4.40 dB
.1 %	5.31 dB
.01 %	5.88 dB

Date: 2.MAY.2017 15:22:04

QPSK, 10MHz CH18900, 100% RB



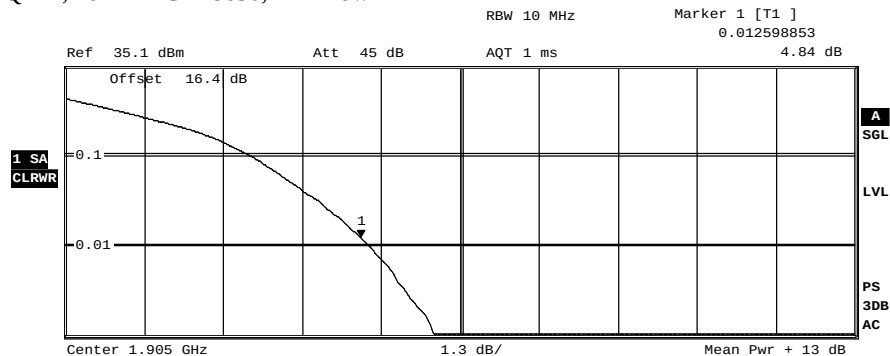
Complementary Cumulative Distribution Function
NOF samples: 16000, Usable BW: 11.2MHz

Trace 1
Mean 22.29 dBm
Peak 27.30 dBm
Crest 5.01 dB

10 % 2.92 dB
1 % 4.48 dB
.1 % 4.88 dB
.01 % 4.96 dB

Date: 2.MAY.2017 15:20:14

QAM, 10MHz CH18650, 1 RB low



Complementary Cumulative Distribution Function
NOF samples: 16000, Usable BW: 11.2MHz

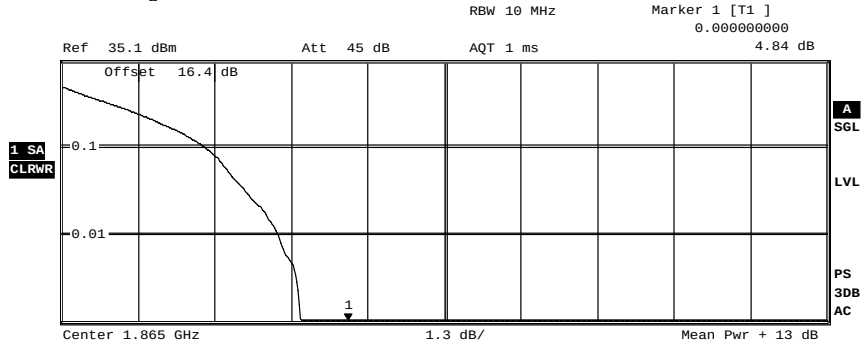
Trace 1
Mean 20.33 dBm
Peak 26.87 dBm
Crest 6.54 dB

10 % 3.06 dB
1 % 4.98 dB
.1 % 6.06 dB
.01 % 6.50 dB

Date: 2.MAY.2017 15:24:16

QAM, 10MHz CH19150, 100% RB

1.6.1.5. 15MHz signal bandwidth



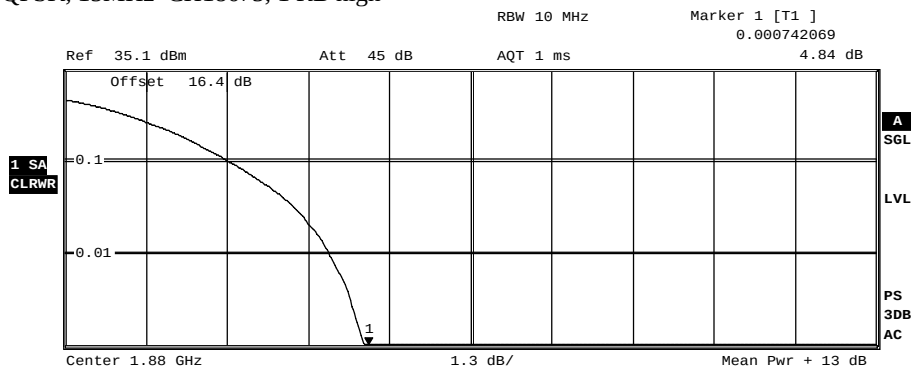
Complementary Cumulative Distribution Function
NOF samples: 16000, Usable BW: 11.2MHz

Trace 1
Mean 23.42 dBm
Peak 27.57 dBm
Crest 4.15 dB

10 % 2.44 dB
1 % 3.67 dB
.1 % 4.06 dB
.01 % 4.10 dB

Date: 2.MAY.2017 15:28:51

QPSK, 15MHz CH18675, 1 RB high



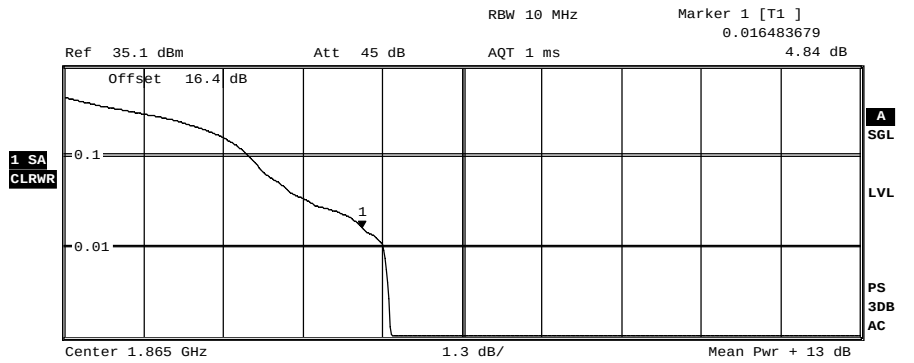
Complementary Cumulative Distribution Function
NOF samples: 16000, Usable BW: 11.2MHz

Trace 1
Mean 20.93 dBm
Peak 26.02 dBm
Crest 5.09 dB

10 % 2.63 dB
1 % 4.23 dB
.1 % 4.79 dB
.01 % 5.06 dB

Date: 2.MAY.2017 15:34:59

QPSK, 15MHz CH18900, 100% RB



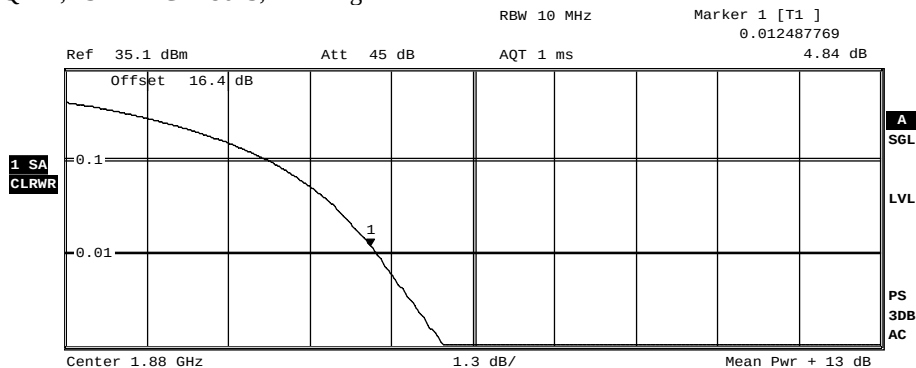
Complementary Cumulative Distribution Function
NOF samples: 16000, Usable BW: 11.2MHz

Trace 1
Mean 22.23 dBm
Peak 27.57 dBm
Crest 5.34 dB

10 % 3.00 dB
1 % 5.21 dB
.1 % 5.33 dB
.01 % 5.35 dB

Date: 2.MAY.2017 15:31:02

QAM, 15MHz CH18675, 1 RB high



Complementary Cumulative Distribution Function
NOF samples: 16000, Usable BW: 11.2MHz

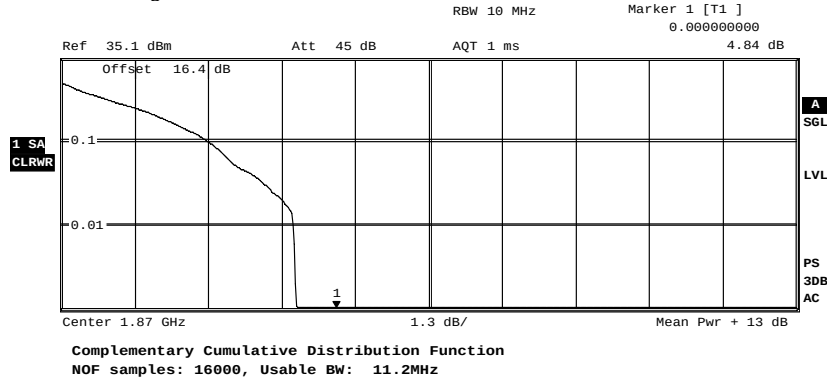
Trace 1
Mean 20.01 dBm
Peak 27.01 dBm
Crest 7.00 dB

10 % 3.25 dB
1 % 4.96 dB
.1 % 6.02 dB
.01 % 6.54 dB

Date: 2.MAY.2017 15:37:22

QAM, 15MHz CH18900, 100% RB

1.6.1.6. 20MHz signal bandwidth

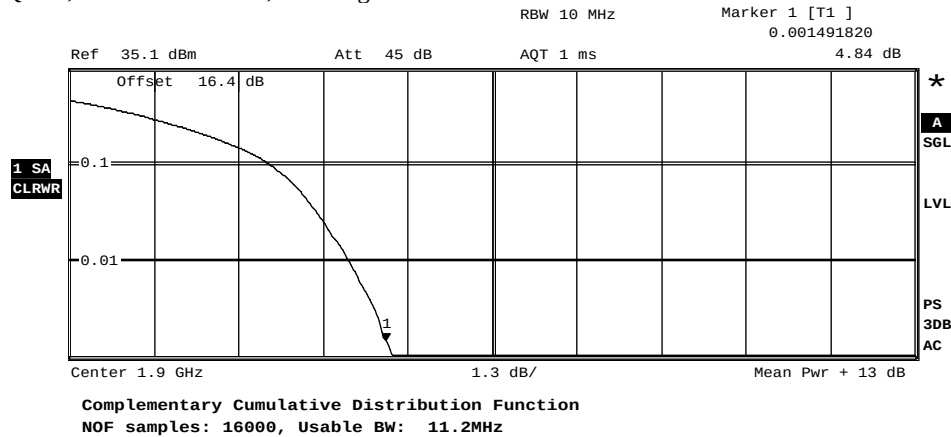


Trace 1

Mean	23.47 dBm
Peak	27.68 dBm
Crest	4.22 dB
10 %	2.58 dB
1 %	4.10 dB
.1 %	4.17 dB
.01 %	4.21 dB

Date: 2.MAY.2017 15:47:48

QPSK, 20MHz CH18700, 1 RB high

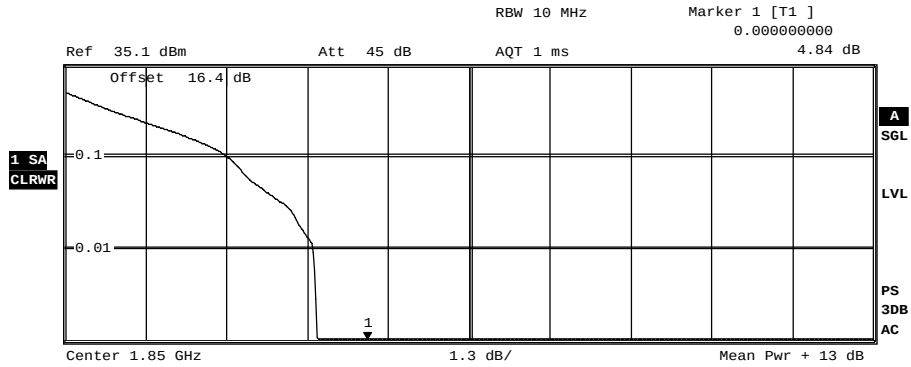


Trace 1

Mean	19.06 dBm
Peak	24.44 dBm
Crest	5.38 dB
10 %	3.08 dB
1 %	4.29 dB
.1 %	5.02 dB
.01 %	5.31 dB

Date: 2.MAY.2017 15:54:16

QPSK, 20MHz CH19100, 100 RB



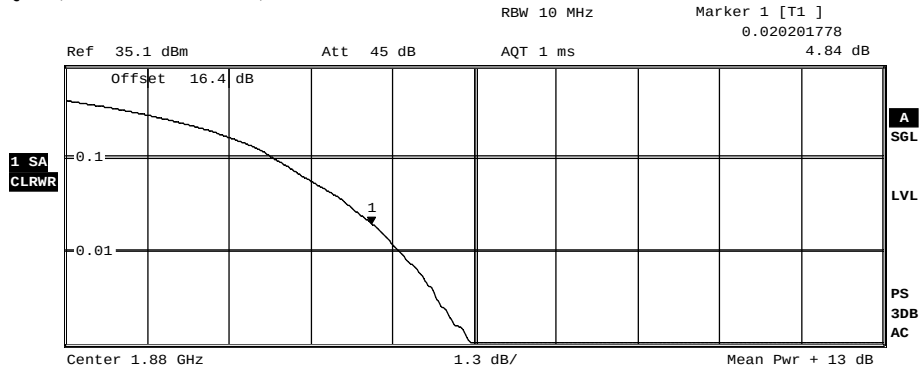
Complementary Cumulative Distribution Function
NOF samples: 16000, Usable BW: 11.2MHz

Trace 1
Mean 23.08 dBm
Peak 27.20 dBm
Crest 4.12 dB

10 % 2.60 dB
1 % 4.00 dB
.1 % 4.06 dB
.01 % 4.13 dB

Date: 2.MAY.2017 15:49:24

QAM, 20MHz CH18700, 1 RB low



Complementary Cumulative Distribution Function
NOF samples: 16000, Usable BW: 11.2MHz

Trace 1
Mean 18.64 dBm
Peak 25.74 dBm
Crest 7.09 dB

10 % 3.31 dB
1 % 5.31 dB
.1 % 6.48 dB
.01 % 7.06 dB

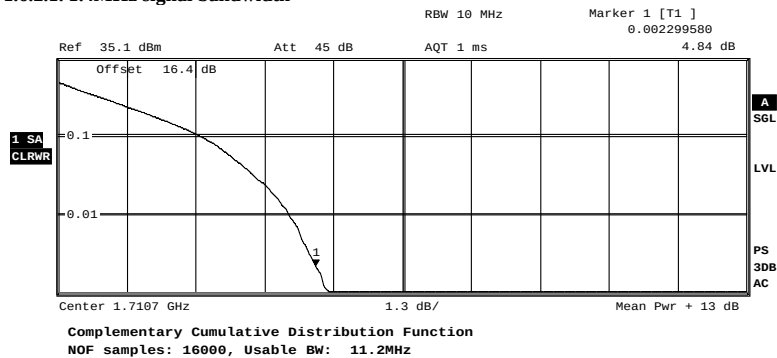
Date: 2.MAY.2017 15:52:33

QAM, 20MHz CH18900, 100% RB

1.6.2. LTE Band 4

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

1.6.2.1. 1.4MHz signal bandwidth

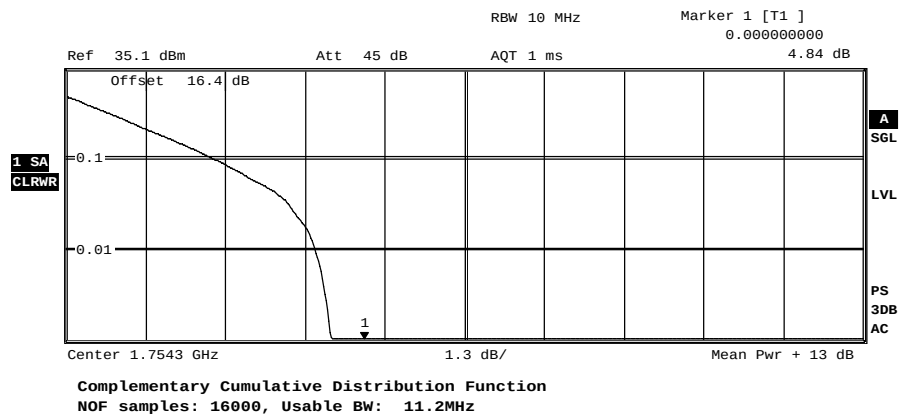


Trace 1

Mean	21.93 dBm
Peak	27.80 dBm
Crest	5.87 dB
10 %	2.71 dB
1 %	4.35 dB
.1 %	5.13 dB
.01 %	5.81 dB

Date: 2.MAY.2017 16:18:57

QPSK 1.4 MHz CH19957, 100% RB

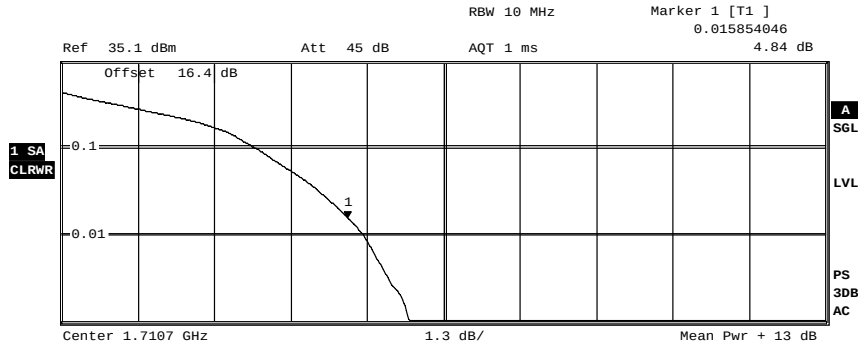


Trace 1

Mean	23.94 dBm
Peak	28.36 dBm
Crest	4.42 dB
10 %	2.42 dB
1 %	4.06 dB
.1 %	4.31 dB
.01 %	4.40 dB

Date: 2.MAY.2017 16:25:43

QPSK 1.4 MHz CH20393, 50% RB



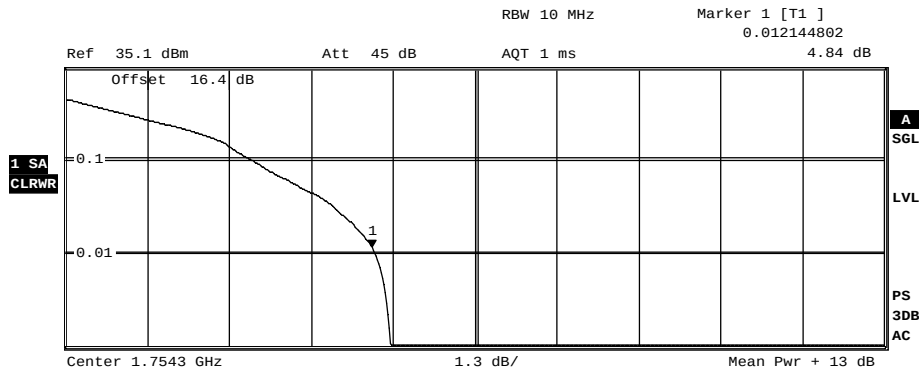
Complementary Cumulative Distribution Function
NOF samples: 16000, Usable BW: 11.2MHz

Trace 1
Mean 20.90 dBm
Peak 27.17 dBm
Crest 6.27 dB

10 % 3.29 dB
1 % 5.13 dB
.1 % 5.92 dB
.01 % 6.25 dB

Date: 2.MAY.2017 16:21:10

QAM 1.4 MHz CH19957, 100% RB



Complementary Cumulative Distribution Function
NOF samples: 16000, Usable BW: 11.2MHz

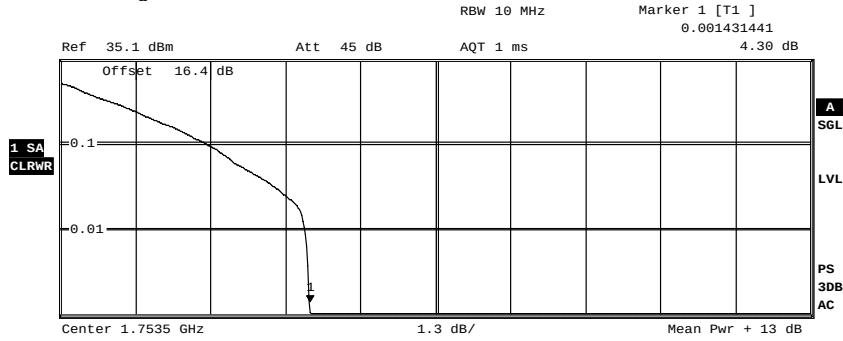
Trace 1
Mean 23.18 dBm
Peak 28.44 dBm
Crest 5.26 dB

10 % 2.96 dB
1 % 4.92 dB
.1 % 5.17 dB
.01 % 5.21 dB

Date: 2.MAY.2017 16:24:15

QAM 1.4 MHz CH20393, 50% RB

1.6.2.2. 3MHz signal bandwidth



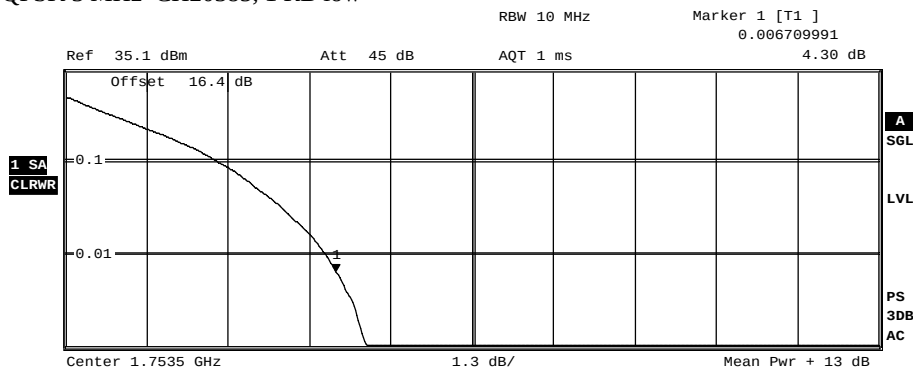
Complementary Cumulative Distribution Function
NOF samples: 16000, Usable BW: 11.2MHz

Trace 1
Mean 23.63 dBm
Peak 28.08 dBm
Crest 4.45 dB

10 % 2.54 dB
1 % 4.23 dB
.1 % 4.33 dB
.01 % 4.40 dB

Date: 2.MAY.2017 16:39:46

QPSK 3 MHz CH20385, 1 RB low



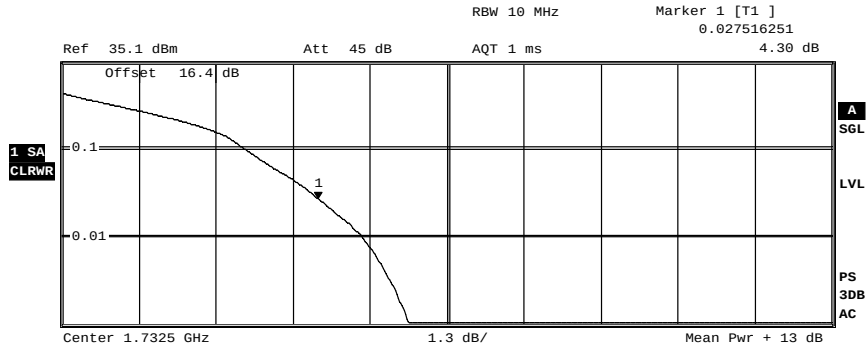
Complementary Cumulative Distribution Function
NOF samples: 16000, Usable BW: 11.2MHz

Trace 1
Mean 23.18 dBm
Peak 28.36 dBm
Crest 5.18 dB

10 % 2.44 dB
1 % 4.15 dB
.1 % 4.81 dB
.01 % 5.13 dB

Date: 2.MAY.2017 16:50:28

QPSK 3 MHz CH20385, 100% RB



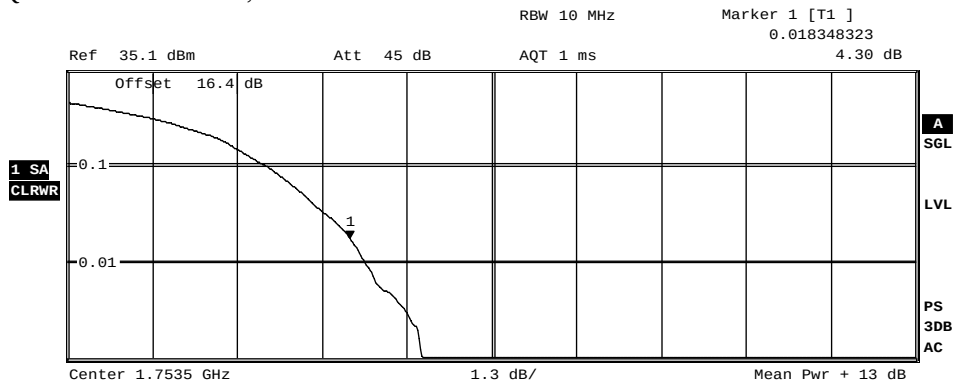
Complementary Cumulative Distribution Function
NOF samples: 16000, Usable BW: 11.2MHz

Trace 1

Mean	21.21 dBm
Peak	27.61 dBm
Crest	6.40 dB
10 %	3.08 dB
1 %	5.06 dB
.1 %	5.85 dB
.01 %	6.15 dB

Date: 2.MAY.2017 16:44:06

QAM 3 MHz CH20175, 50%RB



Complementary Cumulative Distribution Function
NOF samples: 16000, Usable BW: 11.2MHz

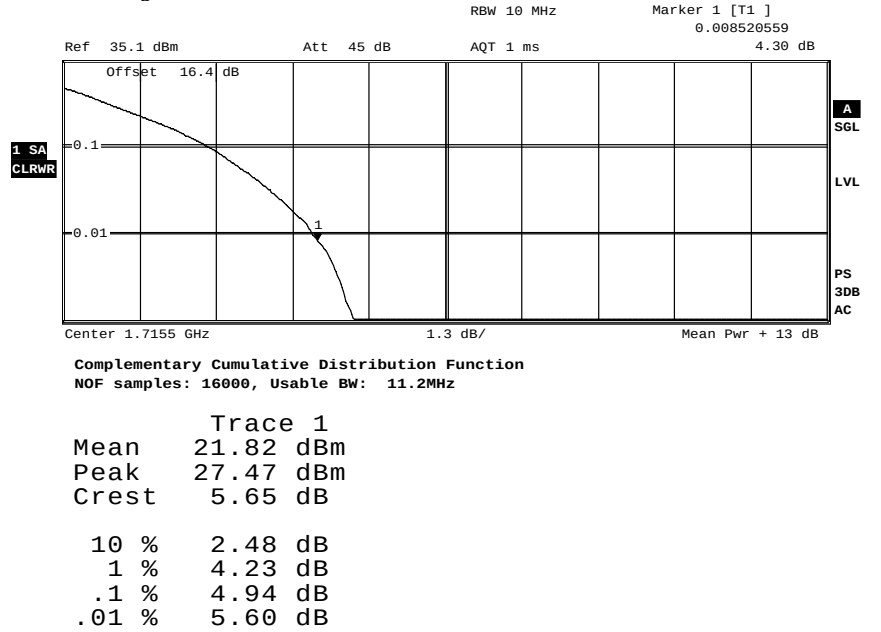
Trace 1

Mean	22.86 dBm
Peak	28.43 dBm
Crest	5.57 dB
10 %	3.04 dB
1 %	4.56 dB
.1 %	5.44 dB
.01 %	5.50 dB

Date: 2.MAY.2017 16:41:16

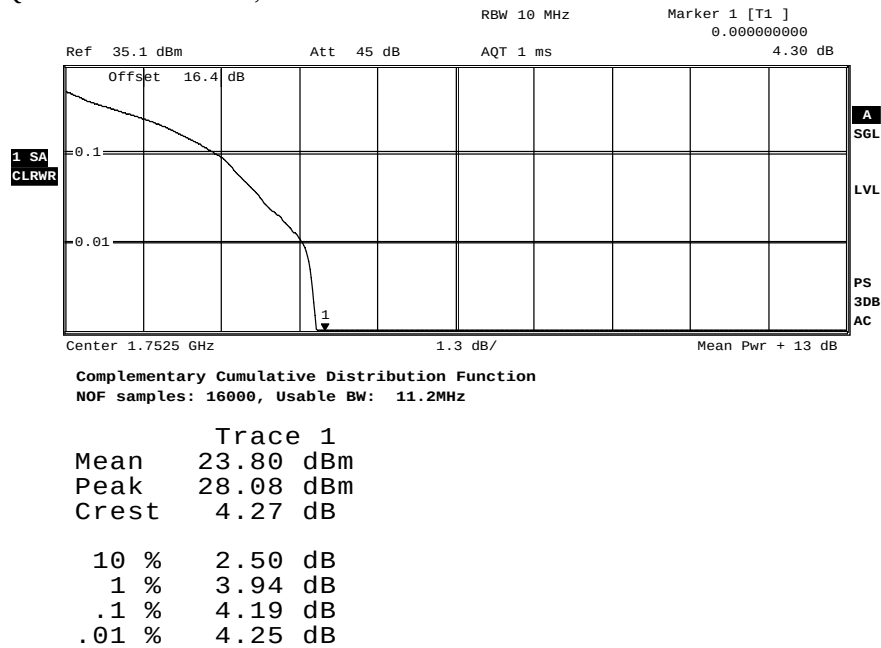
QAM 3 MHz CH20385, 1 RB low

1.6.2.3. 5MHz signal bandwidth



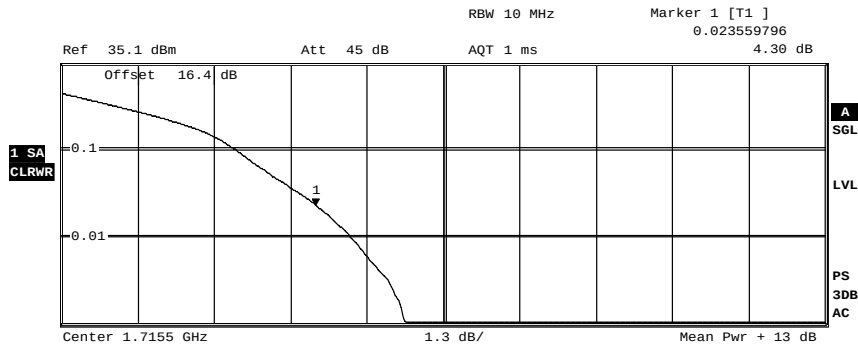
Date: 2.MAY.2017 17:06:16

QPSK 5 MHz CH19975, 100% RB



Date: 2.MAY.2017 17:15:15

QPSK 5 MHz CH20375, 1 RB low



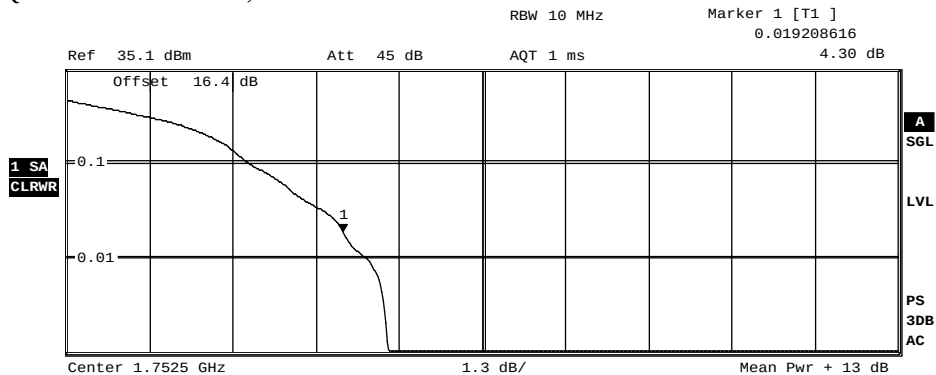
Complementary Cumulative Distribution Function
NOF samples: 16000, Usable BW: 11.2MHz

Trace 1
Mean 20.73 dBm
Peak 27.69 dBm
Crest 6.95 dB

10 % 2.96 dB
1 % 4.92 dB
.1 % 5.85 dB
.01 % 6.50 dB

Date: 2.MAY.2017 17:07:57

QAM 5 MHz CH19975, 100% RB



Complementary Cumulative Distribution Function
NOF samples: 16000, Usable BW: 11.2MHz

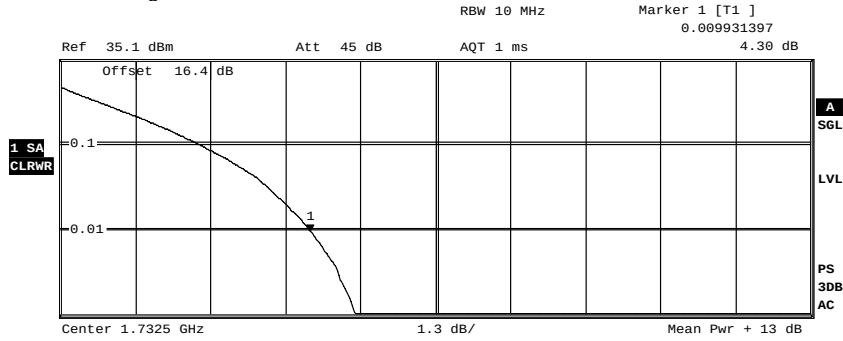
Trace 1
Mean 22.92 dBm
Peak 28.08 dBm
Crest 5.15 dB

10 % 2.83 dB
1 % 4.67 dB
.1 % 5.04 dB
.01 % 5.10 dB

Date: 2.MAY.2017 17:16:50

QAM 5 MHz CH20375, 1 RB low

1.6.2.4. 10MHz signal bandwidth



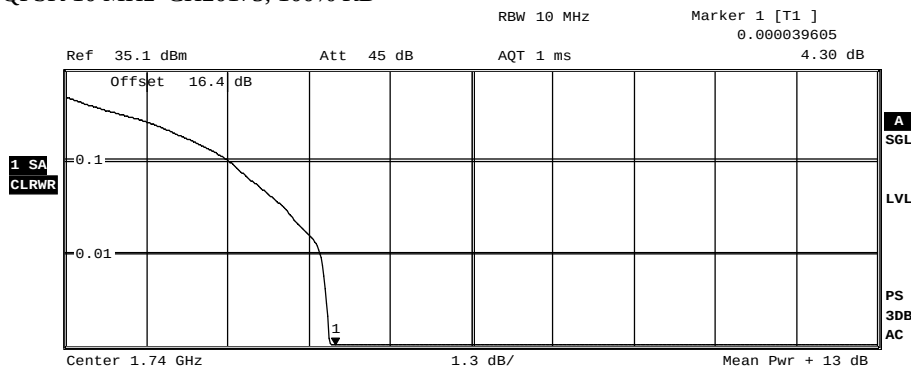
Complementary Cumulative Distribution Function
NOF samples: 16000, Usable BW: 11.2MHz

Trace 1

Mean	22.41 dBm
Peak	28.17 dBm
Crest	5.76 dB
10 %	2.40 dB
1 %	4.31 dB
.1 %	5.10 dB
.01 %	5.44 dB

Date: 2.MAY.2017 17:20:19

QPSK 10 MHz CH20175, 100% RB



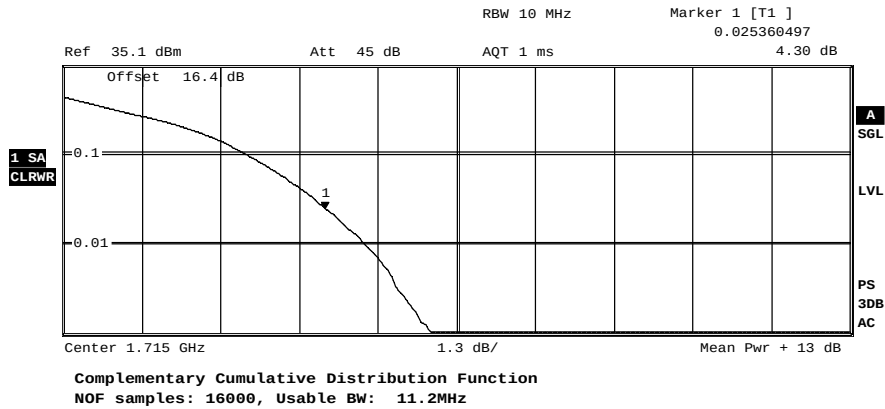
Complementary Cumulative Distribution Function
NOF samples: 16000, Usable BW: 11.2MHz

Trace 1

Mean	19.22 dBm
Peak	23.53 dBm
Crest	4.31 dB
10 %	2.63 dB
1 %	4.08 dB
.1 %	4.23 dB
.01 %	4.31 dB

Date: 2.MAY.2017 17:25:00

QPSK 10 MHz CH20350, 1 RB low

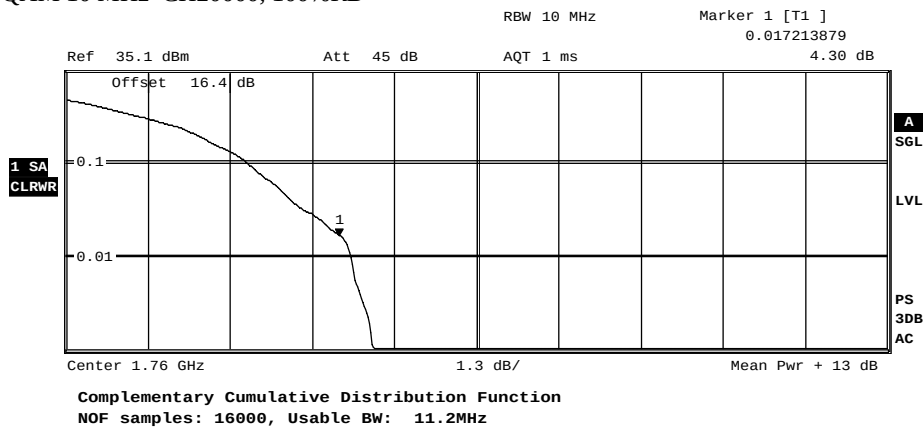


Trace 1
Mean 20.99 dBm
Peak 27.75 dBm
Crest 6.76 dB

10 % 3.02 dB
1 % 4.98 dB
.1 % 6.06 dB
.01 % 6.71 dB

Date: 2.MAY.2017 17:18:34

QAM 10 MHz CH20000, 100%RB



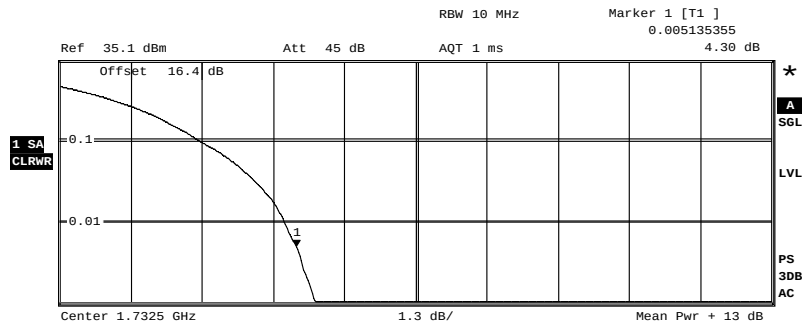
Trace 1
Mean 21.20 dBm
Peak 26.19 dBm
Crest 4.99 dB

10 % 2.88 dB
1 % 4.52 dB
.1 % 4.85 dB
.01 % 4.94 dB

Date: 2.MAY.2017 17:27:53

QAM 10 MHz CH20350, 1 RB high

1.6.2.5. 15MHz signal bandwidth



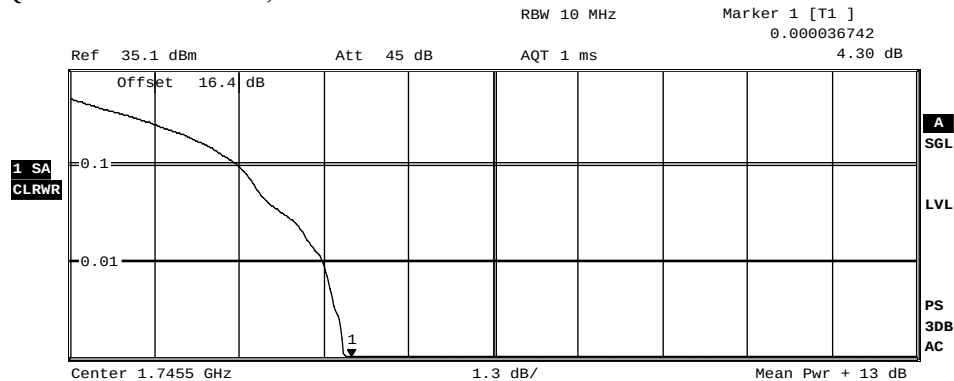
Complementary Cumulative Distribution Function
NOF samples: 16000, Usable BW: 11.2MHz

Trace 1
Mean 21.75 dBm
Peak 26.90 dBm
Crest 5.15 dB

10 % 2.56 dB
1 % 4.10 dB
.1 % 4.67 dB
.01 % 5.04 dB

Date: 2.MAY.2017 17:34:02

QPSK 15 MHz CH20175, 100% RB



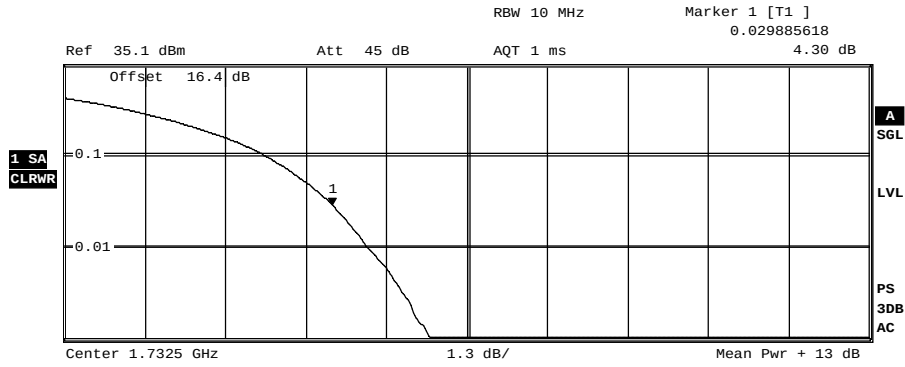
Complementary Cumulative Distribution Function
NOF samples: 16000, Usable BW: 11.2MHz

Trace 1
Mean 22.58 dBm
Peak 26.93 dBm
Crest 4.35 dB

10 % 2.58 dB
1 % 3.88 dB
.1 % 4.21 dB
.01 % 4.29 dB

Date: 2.MAY.2017 17:38:13

QPSK 15 MHz CH20325, 1 RB low



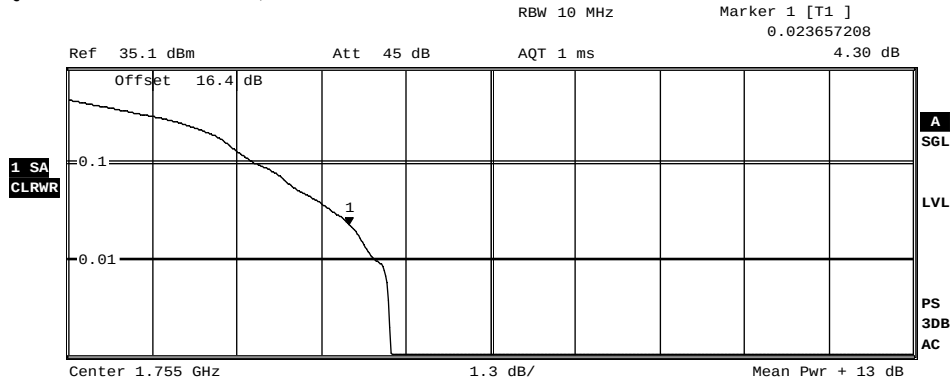
Complementary Cumulative Distribution Function
NOF samples: 16000, Usable BW: 11.2MHz

Trace 1
Mean 20.68 dBm
Peak 27.61 dBm
Crest 6.92 dB

10 % 3.25 dB
1 % 4.88 dB
.1 % 5.92 dB
.01 % 6.50 dB

Date: 2.MAY.2017 17:35:32

QAM 15 MHz CH20175, 100% RB



Complementary Cumulative Distribution Function
NOF samples: 16000, Usable BW: 11.2MHz

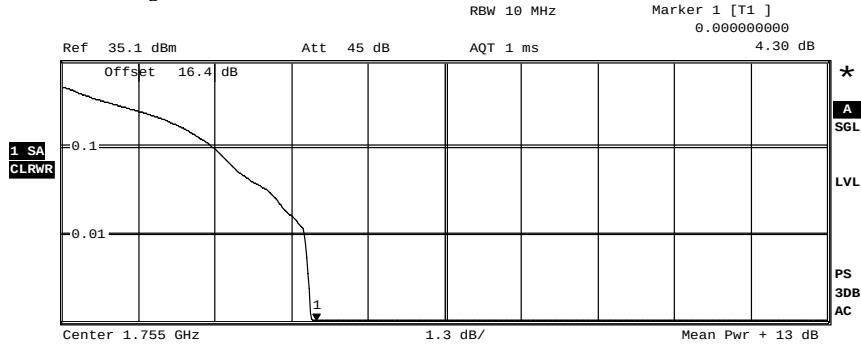
Trace 1
Mean 22.69 dBm
Peak 27.66 dBm
Crest 4.97 dB

10 % 2.90 dB
1 % 4.73 dB
.1 % 4.98 dB
.01 % 4.98 dB

Date: 2.MAY.2017 17:40:16

QAM 15 MHz CH20325, 1 RB high

1.6.2.6. 20MHz signal bandwidth



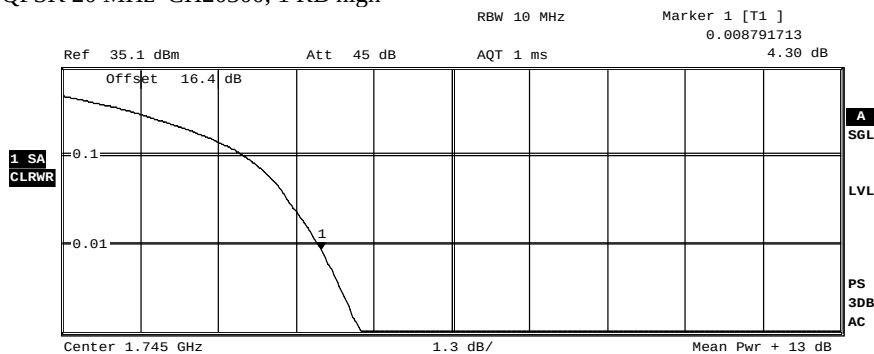
Complementary Cumulative Distribution Function
NOF samples: 16000, Usable BW: 11.2MHz

Trace 1
Mean 23.42 dBm
Peak 27.66 dBm
Crest 4.24 dB

10 % 2.56 dB
1 % 4.13 dB
.1 % 4.23 dB
.01 % 4.25 dB

Date: 2.MAY.2017 17:48:30

QPSK 20 MHz CH20300, 1 RB high



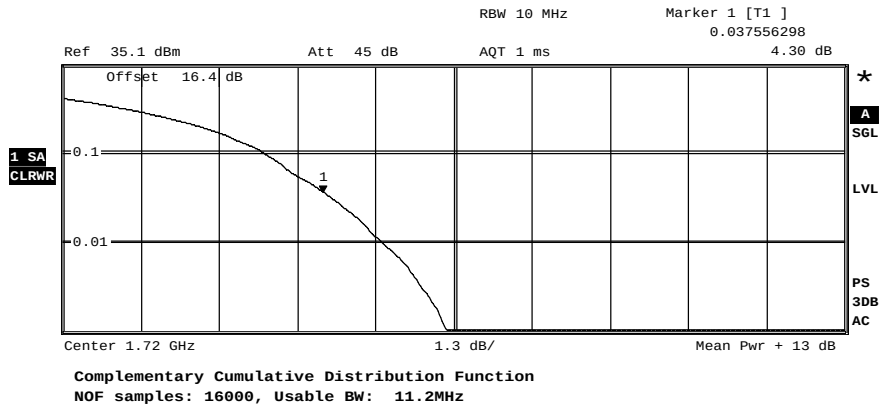
Complementary Cumulative Distribution Function
NOF samples: 16000, Usable BW: 11.2MHz

Trace 1
Mean 20.67 dBm
Peak 26.36 dBm
Crest 5.69 dB

10 % 3.02 dB
1 % 4.27 dB
.1 % 4.98 dB
.01 % 5.38 dB

Date: 2.MAY.2017 17:50:55

QPSK 20 MHz CH20300, 100% RB

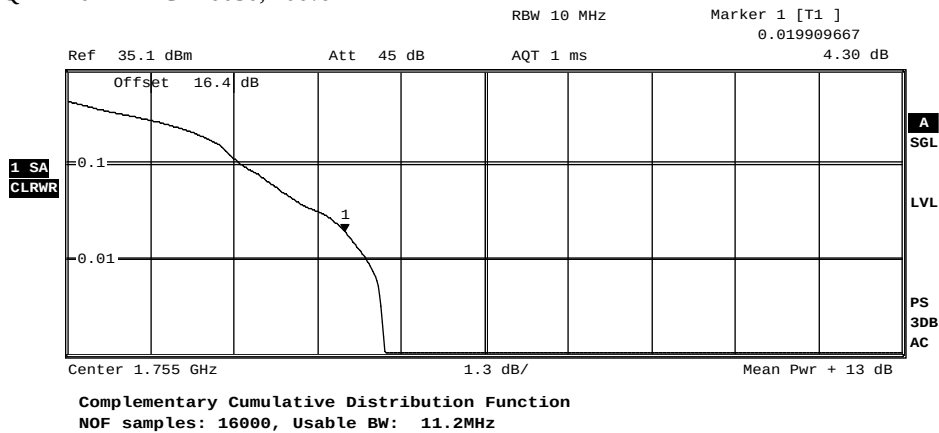


Trace 1
Mean 19.30 dBm
Peak 26.44 dBm
Crest 7.14 dB

10 % 3.35 dB
1 % 5.31 dB
.1 % 6.42 dB
.01 % 6.90 dB

Date: 2.MAY.2017 17:44:04

QAM 20 MHz CH20050, 100% RB



Trace 1
Mean 22.82 dBm
Peak 27.80 dBm
Crest 4.98 dB

10 % 2.71 dB
1 % 4.67 dB
.1 % 4.96 dB
.01 % 5.00 dB

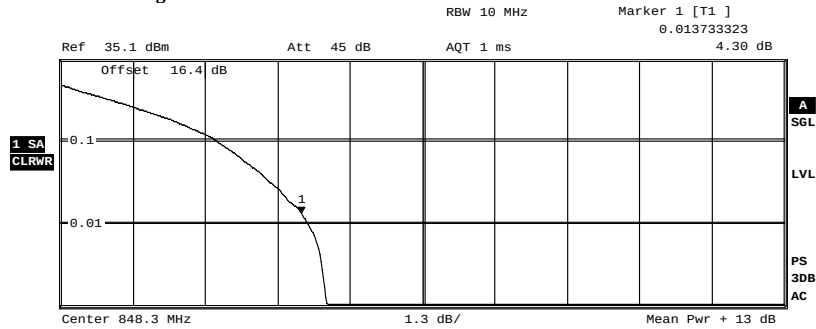
Date: 2.MAY.2017 17:47:11

QAM 20 MHz CH20300, 1 RB high

1.6.3. LTE Band 5

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

1.6.3.1. 1.4MHz signal bandwidth

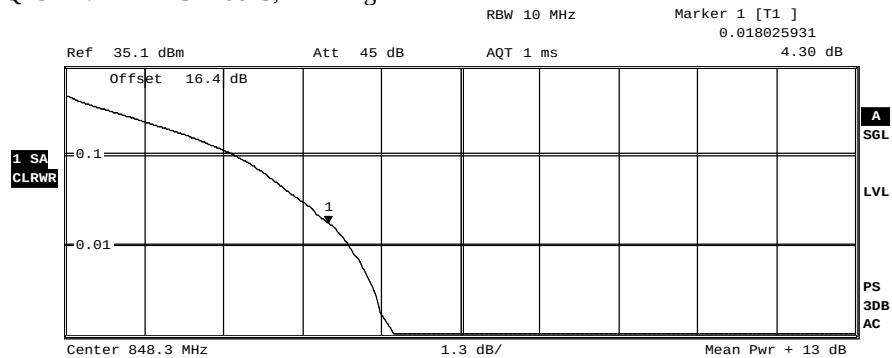


Complementary Cumulative Distribution Function
NOF samples: 16000, Usable BW: 11.2MHz

Trace 1	
Mean	23.15 dBm
Peak	28.07 dBm
Crest	4.92 dB
10 %	2.79 dB
1 %	4.44 dB
.1 %	4.79 dB
.01 %	4.88 dB

Date: 2.MAY.2017 17:58:22

QPSK 1.4 MHz CH20643, 1 RB high

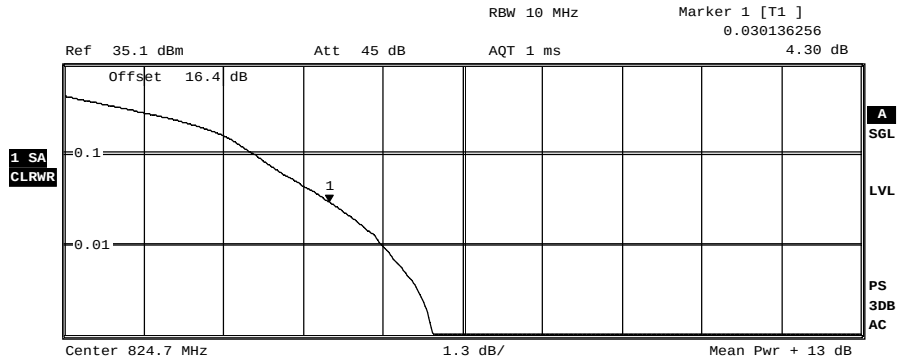


Complementary Cumulative Distribution Function
NOF samples: 16000, Usable BW: 11.2MHz

Trace 1	
Mean	22.04 dBm
Peak	28.35 dBm
Crest	6.31 dB
10 %	2.79 dB
1 %	4.67 dB
.1 %	5.42 dB
.01 %	6.21 dB

Date: 2.MAY.2017 18:00:09

QPSK 1.4 MHz CH20643, 100 RB



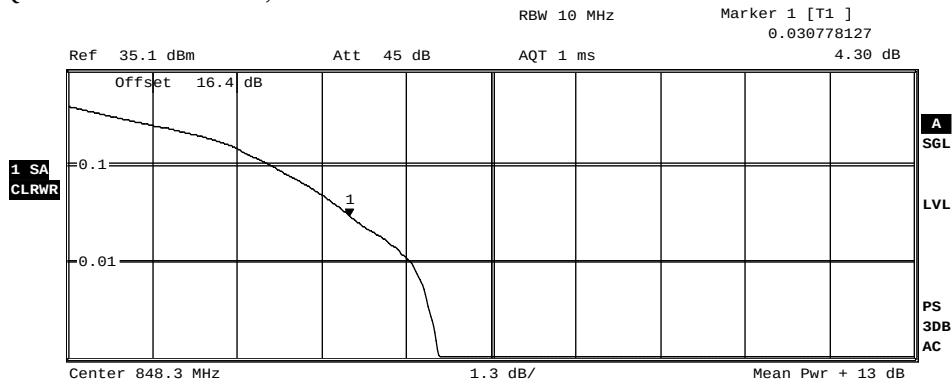
Complementary Cumulative Distribution Function
NOF samples: 16000, Usable BW: 11.2MHz

Trace 1
Mean 20.78 dBm
Peak 27.10 dBm
Crest 6.32 dB

10 % 3.10 dB
1 % 5.19 dB
.1 % 6.02 dB
.01 % 6.25 dB

Date: 2.MAY.2017 17:55:15

QAM 1.4 MHz CH20407, 100% RB



Complementary Cumulative Distribution Function
NOF samples: 16000, Usable BW: 11.2MHz

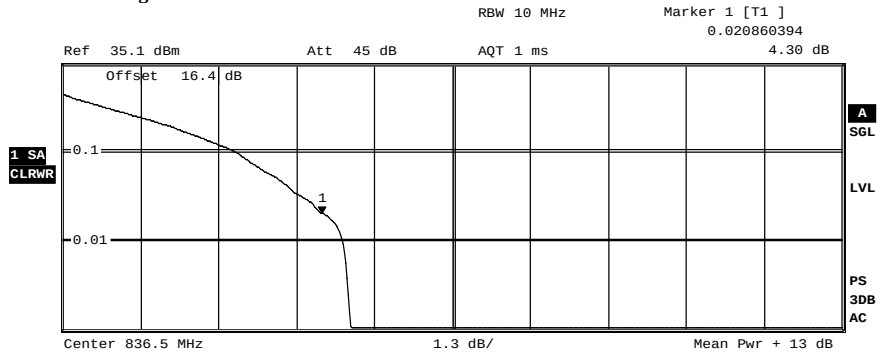
Trace 1
Mean 22.39 dBm
Peak 28.28 dBm
Crest 5.89 dB

10 % 3.15 dB
1 % 5.27 dB
.1 % 5.71 dB
.01 % 5.81 dB

Date: 2.MAY.2017 18:02:51

QAM 1.4 MHz CH20643, 50% RB

1.6.3.2. 3MHz signal bandwidth



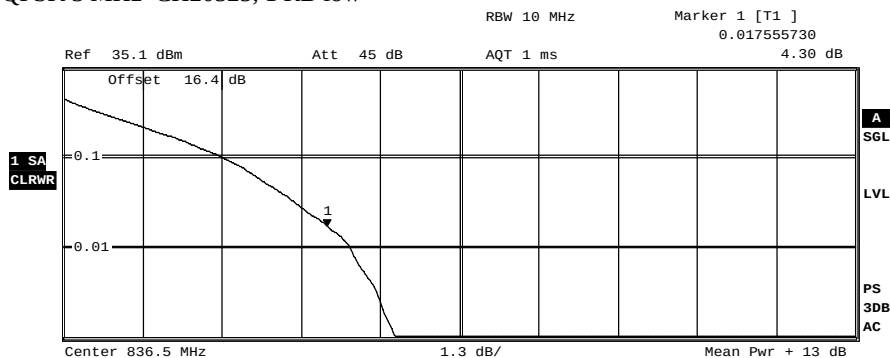
Complementary Cumulative Distribution Function
NOF samples: 16000, Usable BW: 11.2MHz

Trace 1

Mean	22.70 dBm
Peak	27.52 dBm
Crest	4.82 dB
10 %	2.88 dB
1 %	4.67 dB
.1 %	4.81 dB
.01 %	4.83 dB

Date: 2.MAY.2017 18:06:40

QPSK 3 MHz CH20525, 1 RB low



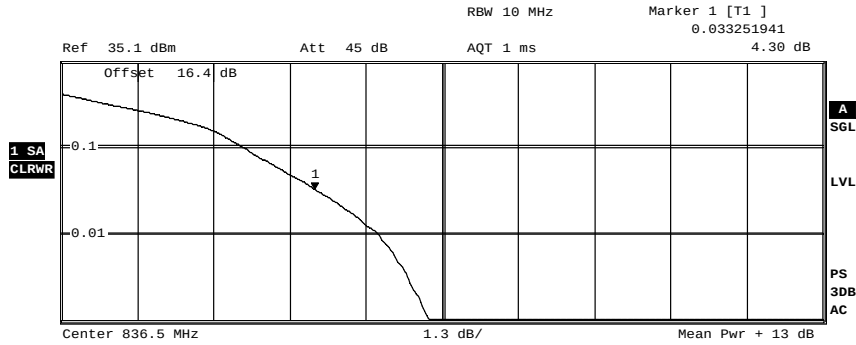
Complementary Cumulative Distribution Function
NOF samples: 16000, Usable BW: 11.2MHz

Trace 1

Mean	22.19 dBm
Peak	28.22 dBm
Crest	6.03 dB
10 %	2.63 dB
1 %	4.71 dB
.1 %	5.44 dB
.01 %	5.92 dB

Date: 2.MAY.2017 18:10:28

QPSK 3 MHz CH20525, 100% RB



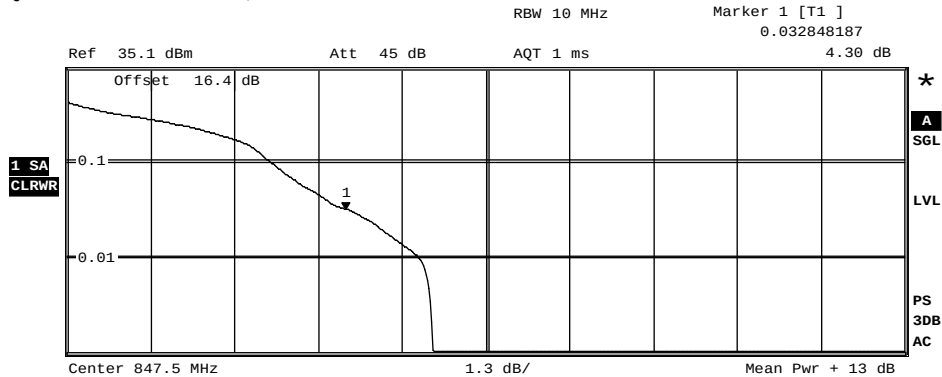
Complementary Cumulative Distribution Function
NOF samples: 16000, Usable BW: 11.2MHz

Trace 1
Mean 21.14 dBm
Peak 28.22 dBm
Crest 7.09 dB

10 % 3.10 dB
1 % 5.42 dB
.1 % 6.27 dB
.01 % 6.77 dB

Date: 2.MAY.2017 18:12:00

QAM 3 MHz CH20525, 100% RB



Complementary Cumulative Distribution Function
NOF samples: 16000, Usable BW: 11.2MHz

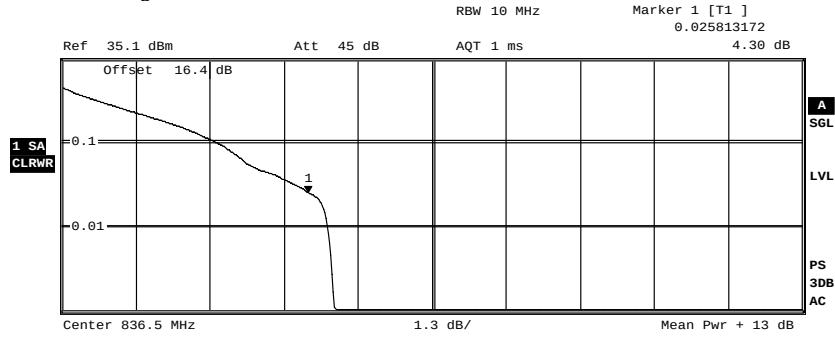
Trace 1
Mean 22.18 dBm
Peak 27.93 dBm
Crest 5.75 dB

10 % 3.17 dB
1 % 5.46 dB
.1 % 5.69 dB
.01 % 5.75 dB

Date: 2.MAY.2017 18:14:30

QAM 3 MHz CH20635, 1 RB high

1.6.3.3. 5MHz signal bandwidth



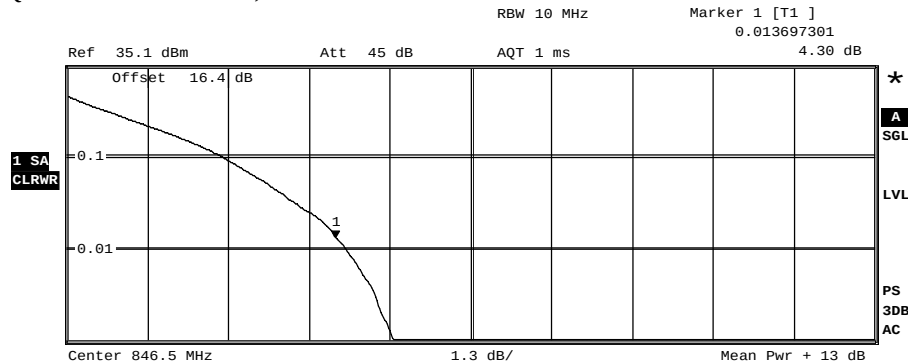
Complementary Cumulative Distribution Function
NOF samples: 16000, Usable BW: 11.2MHz

Trace 1
Mean 22.70 dBm
Peak 27.59 dBm
Crest 4.89 dB

10 % 2.73 dB
1 % 4.67 dB
.1 % 4.79 dB
.01 % 4.83 dB

Date: 2.MAY.2017 18:18:48

QPSK 5 MHz CH20525, 1 RB low



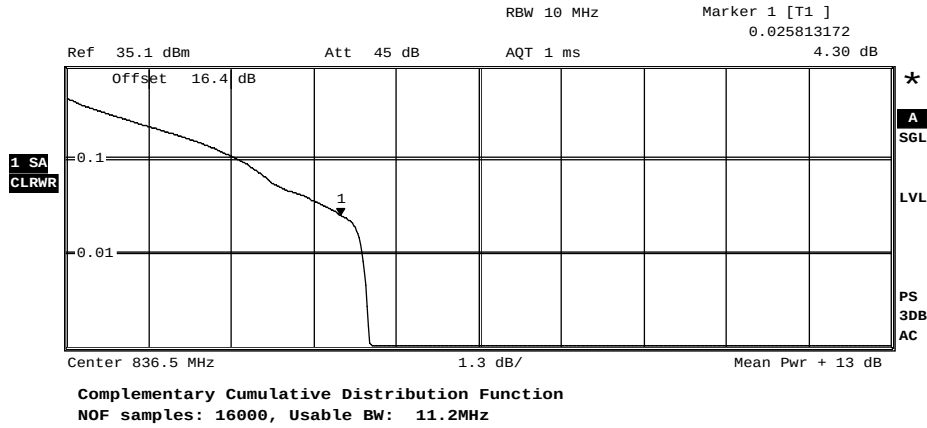
Complementary Cumulative Distribution Function
NOF samples: 16000, Usable BW: 11.2MHz

Trace 1
Mean 22.77 dBm
Peak 28.42 dBm
Crest 5.65 dB

10 % 2.52 dB
1 % 4.48 dB
.1 % 5.25 dB
.01 % 5.54 dB

Date: 2.MAY.2017 18:24:43

QPSK 5 MHz CH20625, 100% RB

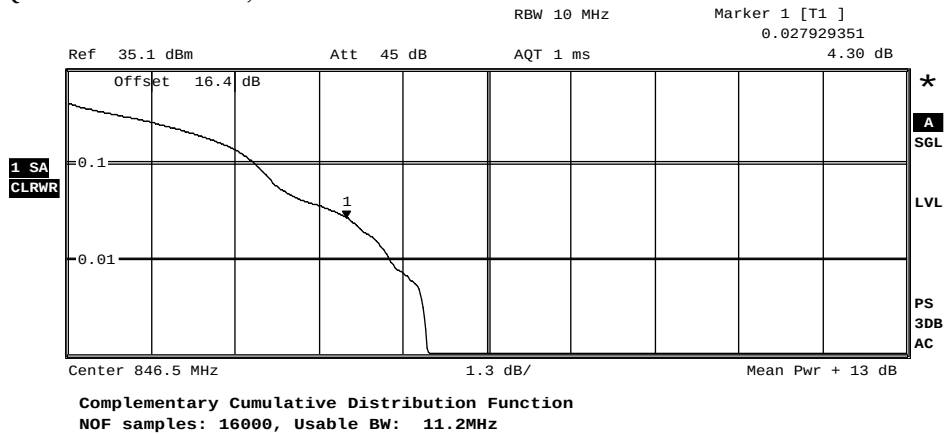


Trace 1

Mean	22.70 dBm
Peak	27.59 dBm
Crest	4.89 dB
10 %	2.73 dB
1 %	4.67 dB
.1 %	4.79 dB
.01 %	4.83 dB

Date: 2.MAY.2017 18:20:48

QAM 5 MHz CH20525, 100% RB



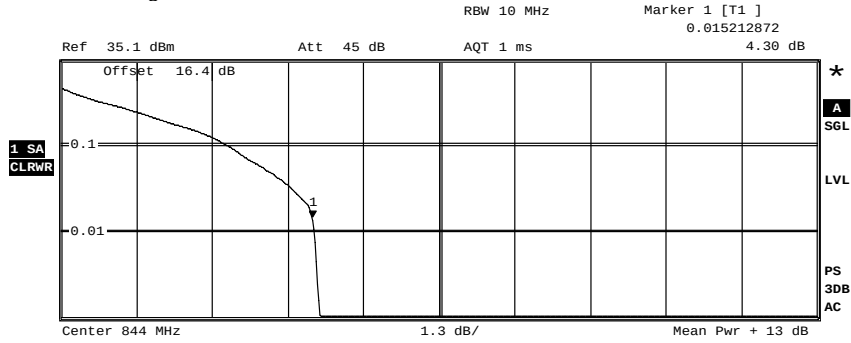
Trace 1

Mean	22.27 dBm
Peak	27.92 dBm
Crest	5.66 dB
10 %	2.90 dB
1 %	5.00 dB
.1 %	5.58 dB
.01 %	5.67 dB

Date: 2.MAY.2017 18:26:00

QAM 5 MHz CH20625, 1 RB high

1.6.3.4. 10MHz signal bandwidth



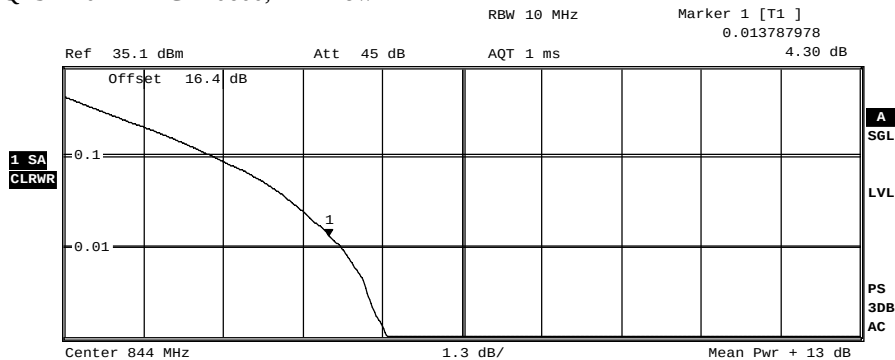
Complementary Cumulative Distribution Function
NOF samples: 16000, Usable BW: 11.2MHz

Trace 1
Mean 22.60 dBm
Peak 27.15 dBm
Crest 4.54 dB

10 % 2.85 dB
1 % 4.35 dB
.1 % 4.46 dB
.01 % 4.48 dB

Date: 2.MAY.2017 18:34:48

QPSK 10 MHz CH20600, 1 RB low



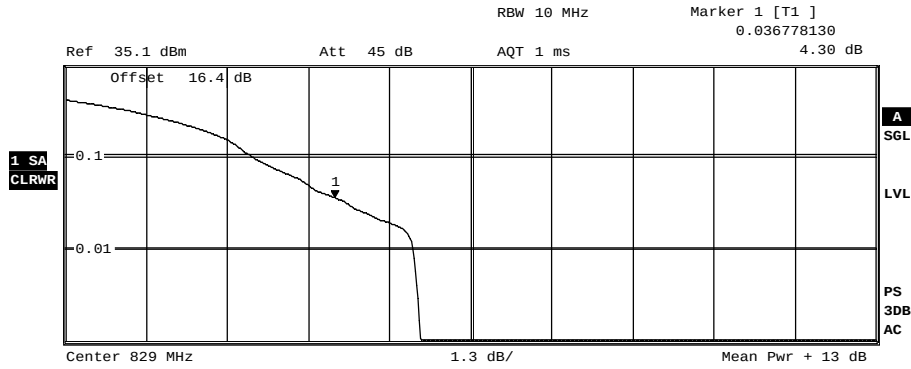
Complementary Cumulative Distribution Function
NOF samples: 16000, Usable BW: 11.2MHz

Trace 1
Mean 22.25 dBm
Peak 28.27 dBm
Crest 6.02 dB

10 % 2.46 dB
1 % 4.52 dB
.1 % 5.29 dB
.01 % 5.71 dB

Date: 2.MAY.2017 18:36:01

QPSK 10 MHz CH20600, 100%RB



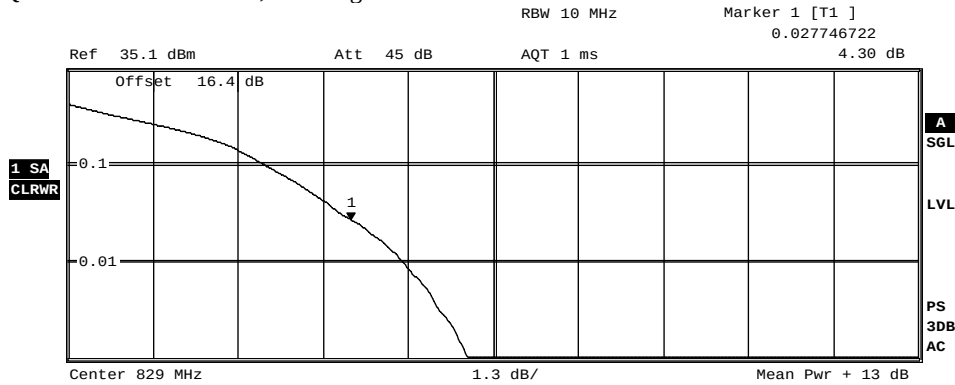
Complementary Cumulative Distribution Function
NOF samples: 16000, Usable BW: 11.2MHz

Trace 1
Mean 22.22 dBm
Peak 27.99 dBm
Crest 5.77 dB

10 % 3.00 dB
1 % 5.58 dB
.1 % 5.71 dB
.01 % 5.77 dB

Date: 2.MAY.2017 18:30:26

QAM 10 MHz CH20450, 1 RB high



Complementary Cumulative Distribution Function
NOF samples: 16000, Usable BW: 11.2MHz

Trace 1
Mean 21.02 dBm
Peak 28.06 dBm
Crest 7.04 dB

10 % 3.02 dB
1 % 5.13 dB
.1 % 6.10 dB
.01 % 6.94 dB

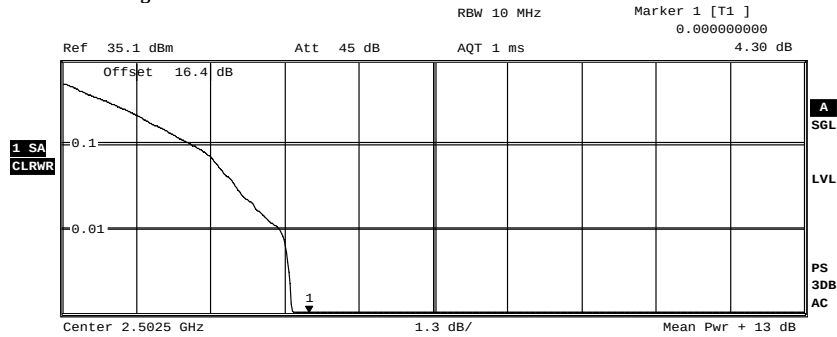
Date: 2.MAY.2017 18:32:31

QAM 10 MHz CH20450, 100 RB

1.6.4. LTE Band 7

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

1.6.4.1. 5MHz signal bandwidth



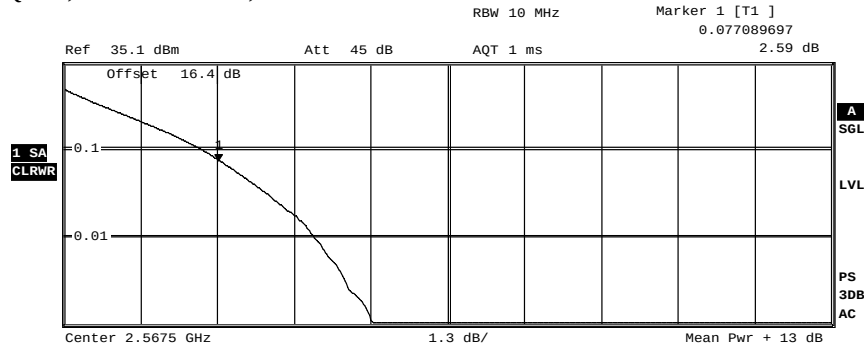
Complementary Cumulative Distribution Function
NOF samples: 16000, Usable BW: 11.2MHz

Trace 1
Mean 21.62 dBm
Peak 25.79 dBm
Crest 4.17 dB

10 % 2.27 dB
1 % 3.79 dB
.1 % 4.04 dB
.01 % 4.10 dB

Date: 3.MAY.2017 09:23:05

QPSK, 5MHz CH20775, 1 RB low



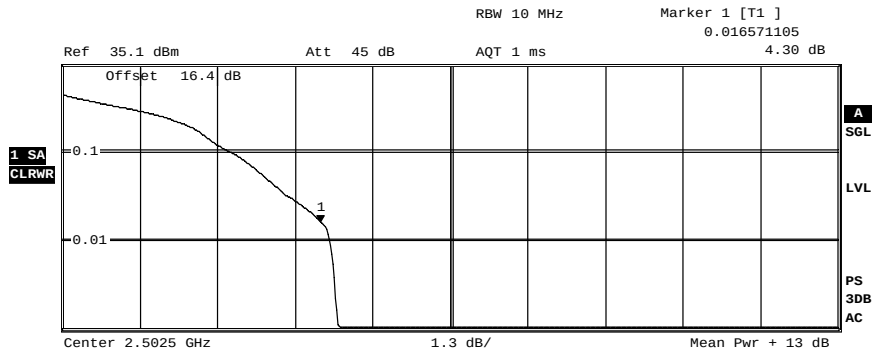
Complementary Cumulative Distribution Function
NOF samples: 16000, Usable BW: 11.2MHz

Trace 1
Mean 20.54 dBm
Peak 26.42 dBm
Crest 5.88 dB

10 % 2.33 dB
1 % 4.23 dB
.1 % 5.23 dB
.01 % 5.83 dB

Date: 3.MAY.2017 09:50:02

QPSK, 5MHz CH21425, 100% RB low



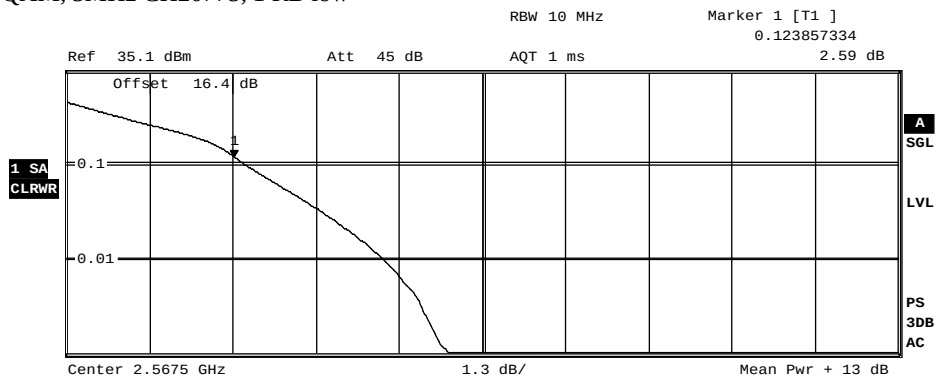
Complementary Cumulative Distribution Function
NOF samples: 16000, Usable BW: 11.2MHz

Trace 1

Mean	21.35 dBm
Peak	26.07 dBm
Crest	4.72 dB
10 %	2.81 dB
1 %	4.48 dB
.1 %	4.63 dB
.01 %	4.71 dB

Date: 3.MAY.2017 09:27:00

QAM, 5MHz CH20775, 1 RB low



Complementary Cumulative Distribution Function
NOF samples: 16000, Usable BW: 11.2MHz

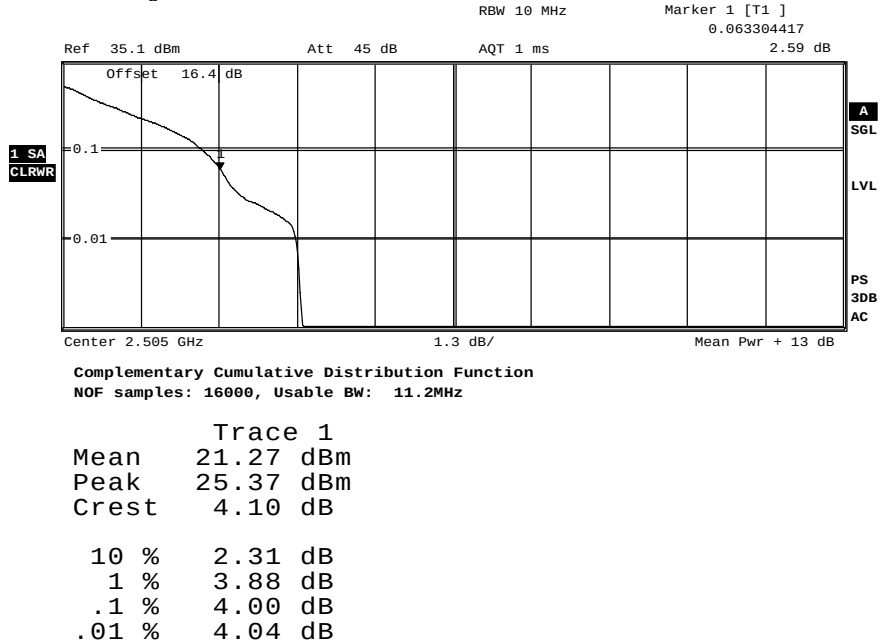
Trace 1

Mean	19.64 dBm
Peak	26.49 dBm
Crest	6.85 dB
10 %	2.79 dB
1 %	4.96 dB
.1 %	5.98 dB
.01 %	6.56 dB

Date: 3.MAY.2017 09:51:26

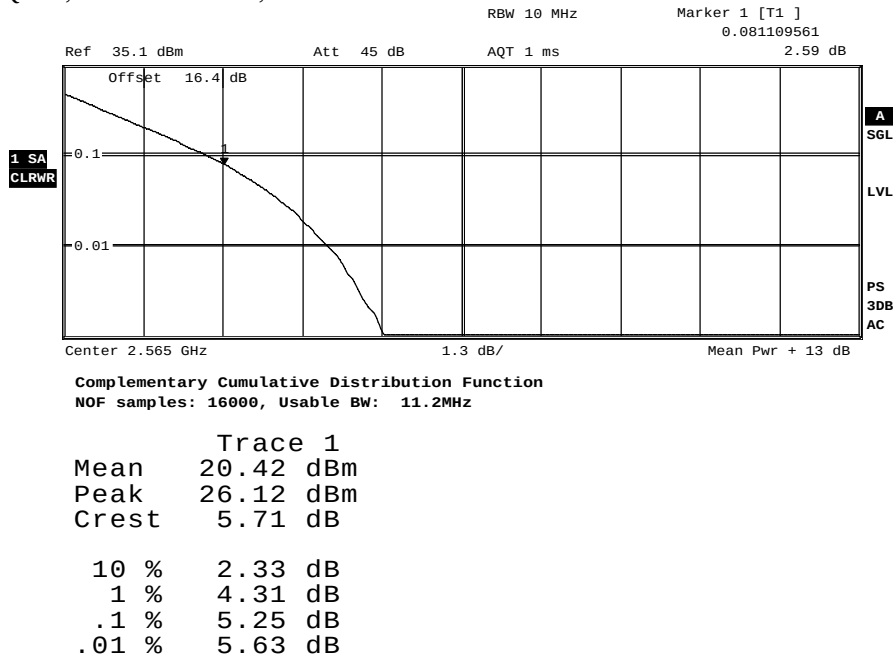
QAM, 5MHz CH21425, 100% RB low

1.6.4.2. 10MHz signal bandwidth



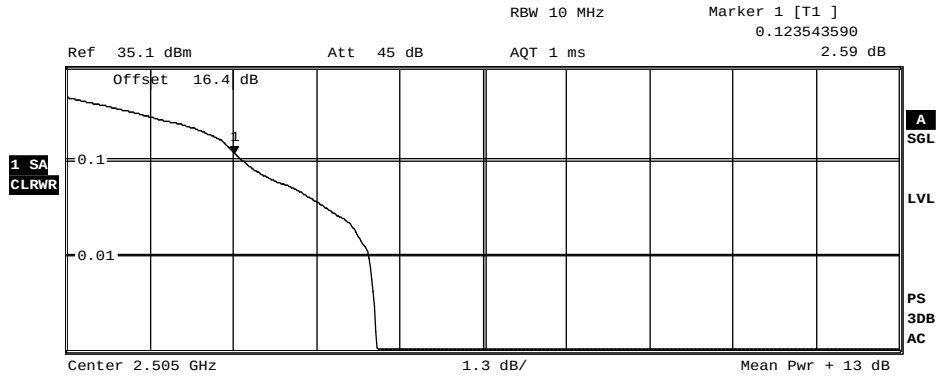
Date: 3.MAY.2017 09:54:28

QPSK, 10MHz CH20800, 1 RB low



Date: 3.MAY.2017 09:58:38

QPSK, 10MHz CH21400, 100% RB



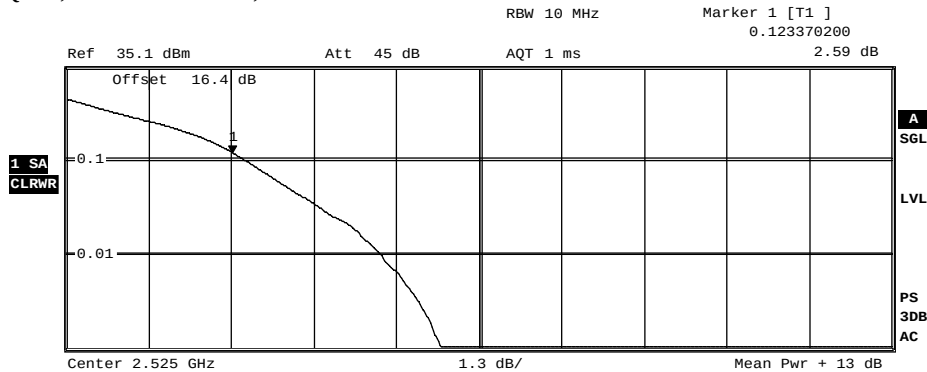
Complementary Cumulative Distribution Function
NOF samples: 16000, Usable BW: 11.2MHz

Trace 1
Mean 20.81 dBm
Peak 25.72 dBm
Crest 4.91 dB

10 % 2.75 dB
1 % 4.73 dB
.1 % 4.85 dB
.01 % 4.92 dB

Date: 3.MAY.2017 09:55:25

QAM, 10MHz CH20800, 1 RB low



Complementary Cumulative Distribution Function
NOF samples: 16000, Usable BW: 11.2MHz

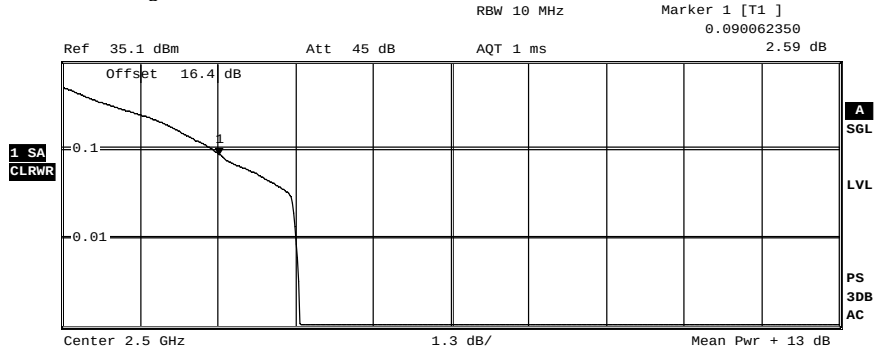
Trace 1
Mean 19.78 dBm
Peak 26.49 dBm
Crest 6.72 dB

10 % 2.83 dB
1 % 4.96 dB
.1 % 5.90 dB
.01 % 6.67 dB

Date: 3.MAY.2017 09:57:01

QAM, 10MHz CH21000, 100% RB

1.6.4.3. 15MHz signal bandwidth



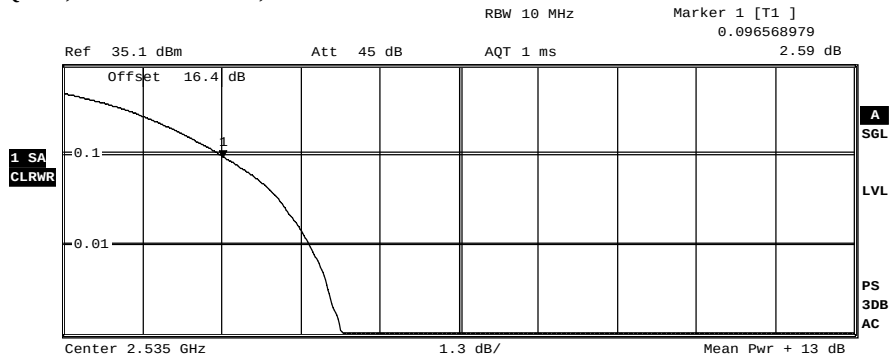
Complementary Cumulative Distribution Function
NOF samples: 16000, Usable BW: 11.2MHz

Trace 1

Mean	21.46 dBm
Peak	25.50 dBm
Crest	4.05 dB
10 %	2.52 dB
1 %	3.92 dB
.1 %	3.98 dB
.01 %	4.00 dB

Date: 3.MAY.2017 10:04:05

QPSK, 15MHz CH20825, 1 RB low



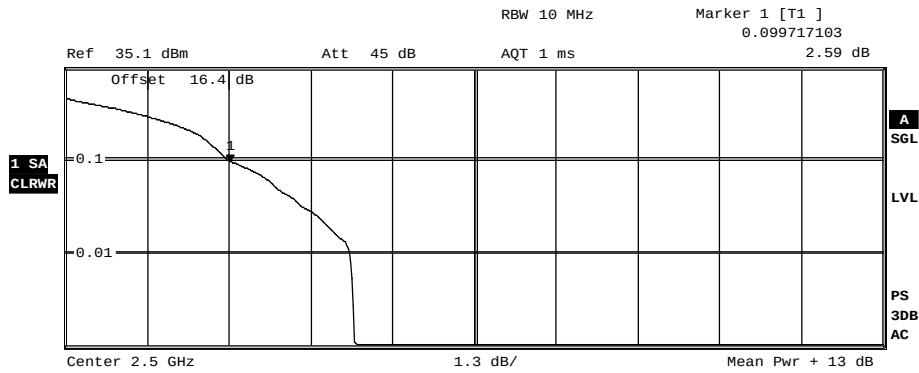
Complementary Cumulative Distribution Function
NOF samples: 16000, Usable BW: 11.2MHz

Trace 1

Mean	20.17 dBm
Peak	25.09 dBm
Crest	4.91 dB
10 %	2.56 dB
1 %	4.04 dB
.1 %	4.58 dB
.01 %	4.83 dB

Date: 3.MAY.2017 10:22:05

QPSK, 15MHz CH21100, 100% RB



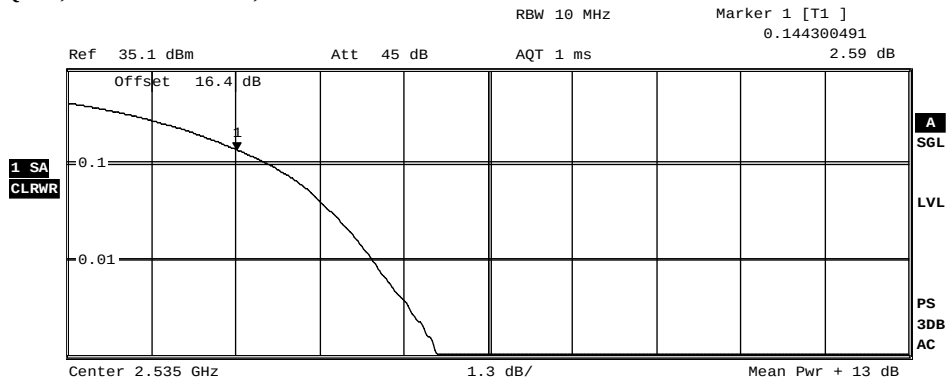
Complementary Cumulative Distribution Function
NOF samples: 16000, Usable BW: 11.2MHz

Trace 1
Mean 20.63 dBm
Peak 25.29 dBm
Crest 4.66 dB

10 % 2.60 dB
1 % 4.52 dB
.1 % 4.60 dB
.01 % 4.67 dB

Date: 3.MAY.2017 10:05:03

QAM, 15MHz CH20825, 1 RB low



Complementary Cumulative Distribution Function
NOF samples: 16000, Usable BW: 11.2MHz

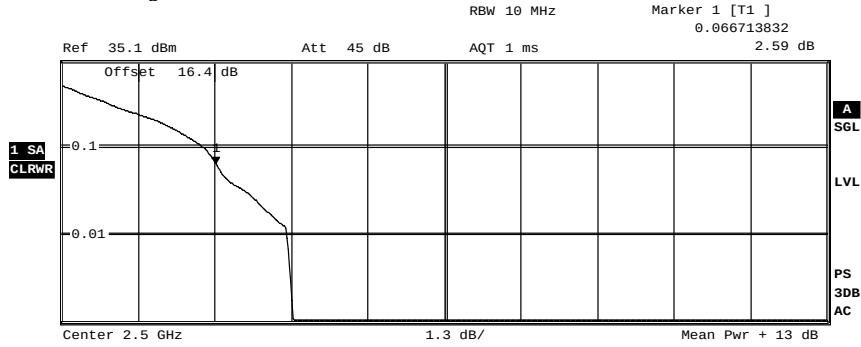
Trace 1
Mean 19.19 dBm
Peak 25.58 dBm
Crest 6.39 dB

10 % 3.10 dB
1 % 4.71 dB
.1 % 5.71 dB
.01 % 6.29 dB

Date: 3.MAY.2017 10:23:06

QAM, 15MHz CH21100, 100% RB

1.6.4.4. 20MHz signal bandwidth



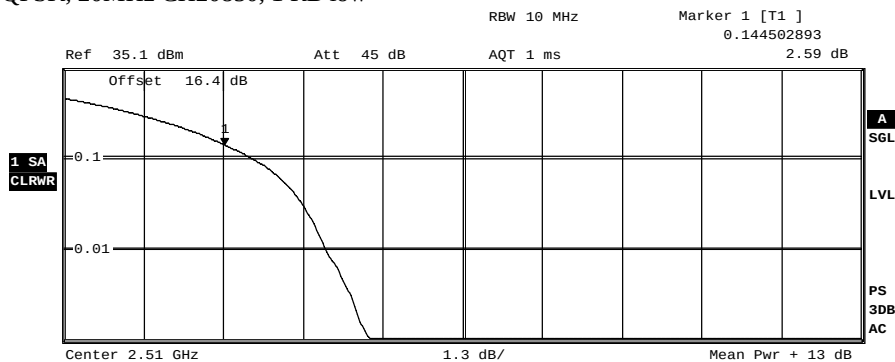
Complementary Cumulative Distribution Function
NOF samples: 16000, Usable BW: 11.2MHz

Trace 1
Mean 21.49 dBm
Peak 25.43 dBm
Crest 3.94 dB

10 % 2.40 dB
1 % 3.83 dB
.1 % 3.94 dB
.01 % 3.96 dB

Date: 3.MAY.2017 10:12:35

QPSK, 20MHz CH20850, 1 RB low



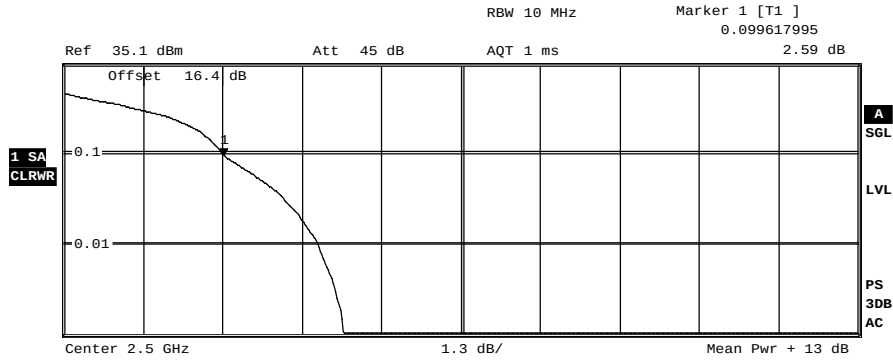
Complementary Cumulative Distribution Function
NOF samples: 16000, Usable BW: 11.2MHz

Trace 1
Mean 18.45 dBm
Peak 23.97 dBm
Crest 5.52 dB

10 % 3.06 dB
1 % 4.27 dB
.1 % 4.98 dB
.01 % 5.42 dB

Date: 3.MAY.2017 10:15:53

QPSK, 20MHz CH20850, 100% RB



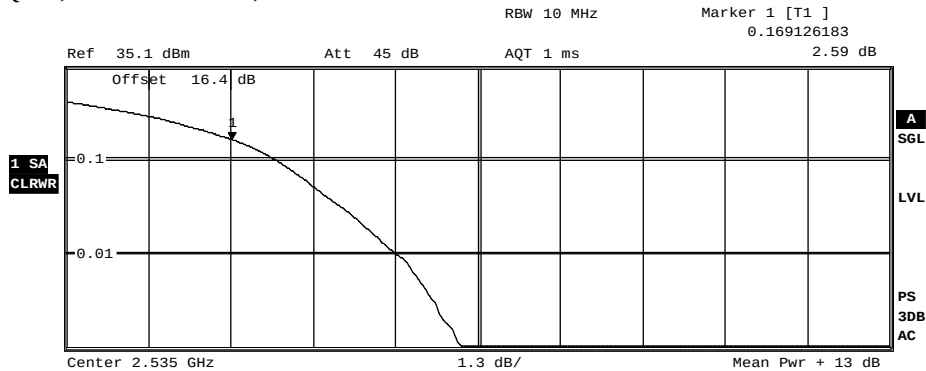
Complementary Cumulative Distribution Function
NOF samples: 16000, Usable BW: 11.2MHz

Trace 1
Mean 20.75 dBm
Peak 25.43 dBm
Crest 4.68 dB

10 % 2.60 dB
1 % 4.17 dB
.1 % 4.58 dB
.01 % 4.67 dB

Date: 3.MAY.2017 10:14:04

QAM, 20MHz CH20850, 1 RB low



Complementary Cumulative Distribution Function
NOF samples: 16000, Usable BW: 11.2MHz

Trace 1
Mean 18.14 dBm
Peak 25.23 dBm
Crest 7.09 dB

10 % 3.31 dB
1 % 5.21 dB
.1 % 6.25 dB
.01 % 6.79 dB

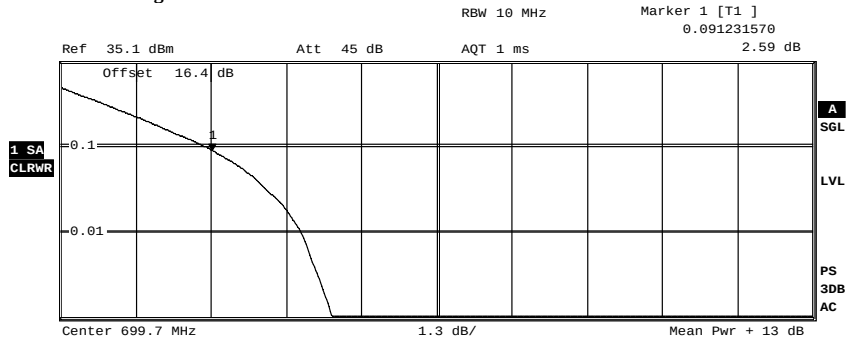
Date: 3.MAY.2017 10:20:08

QAM, 20MHz CH21100, 100% RB

1.6.5. LTE Band 12

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

1.6.5.1. 1.4MHz signal bandwidth



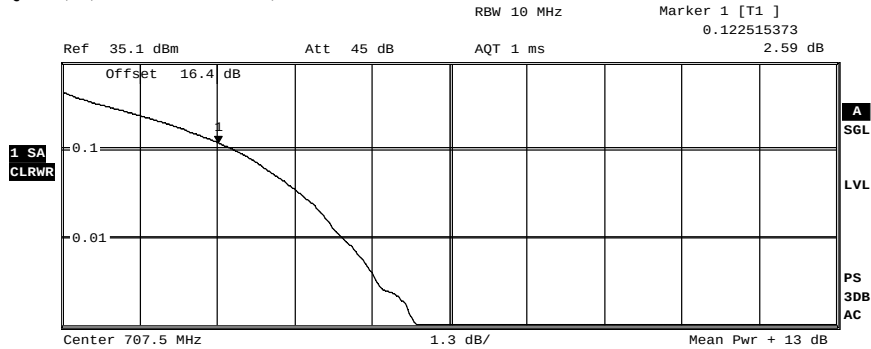
Complementary Cumulative Distribution Function
NOF samples: 16000, Usable BW: 11.2MHz

Trace 1

Mean	22.63 dBm
Peak	27.55 dBm
Crest	4.92 dB
10 %	2.50 dB
1 %	4.15 dB
.1 %	4.69 dB
.01 %	4.88 dB

Date: 3.MAY.2017 10:28:06

QPSK, 1,4 MHz CH23017, 50% RB



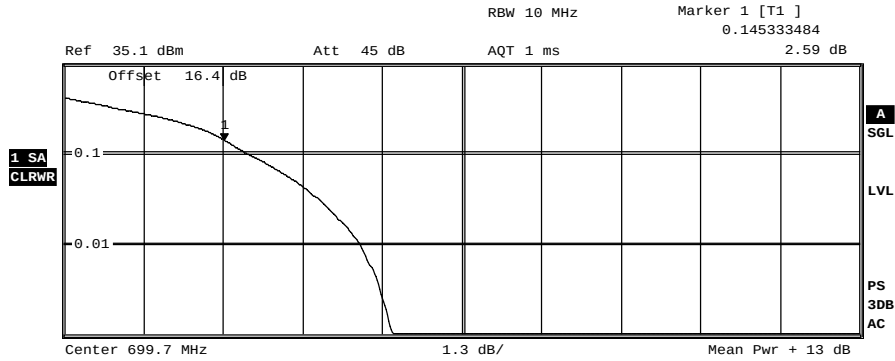
Complementary Cumulative Distribution Function
NOF samples: 16000, Usable BW: 11.2MHz

Trace 1

Mean	21.14 dBm
Peak	27.54 dBm
Crest	6.39 dB
10 %	2.90 dB
1 %	4.71 dB
.1 %	5.94 dB
.01 %	6.35 dB

Date: 3.MAY.2017 10:31:39

QPSK, 1,4 MHz CH23095, 100% RB



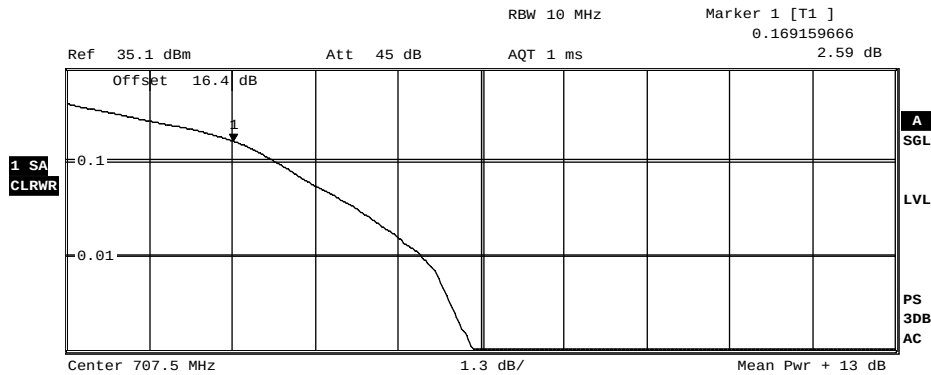
Complementary Cumulative Distribution Function
NOF samples: 16000, Usable BW: 11.2MHz

Trace 1
Mean 21.74 dBm
Peak 27.27 dBm
Crest 5.53 dB

10 % 3.00 dB
1 % 4.83 dB
.1 % 5.38 dB
.01 % 5.52 dB

Date: 3.MAY.2017 10:29:40

QAM, 1,4 MHz CH23017, 50% RB



Complementary Cumulative Distribution Function
NOF samples: 16000, Usable BW: 11.2MHz

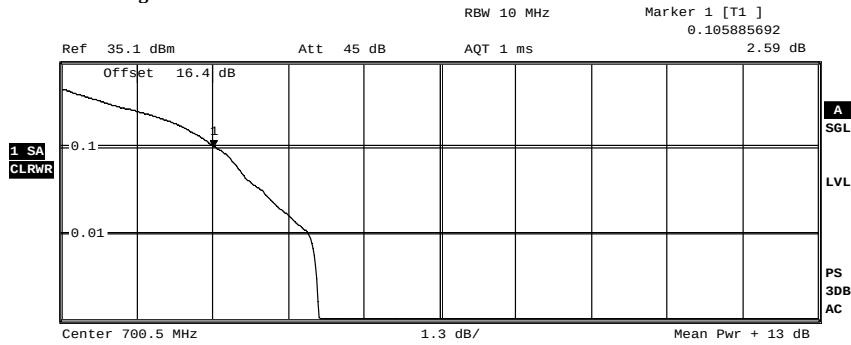
Trace 1
Mean 20.20 dBm
Peak 27.04 dBm
Crest 6.84 dB

10 % 3.29 dB
1 % 5.56 dB
.1 % 6.38 dB
.01 % 6.79 dB

Date: 3.MAY.2017 10:33:17

QAM, 1,4 MHz CH23095, 100% RB

1.6.5.2. 3MHz signal bandwidth



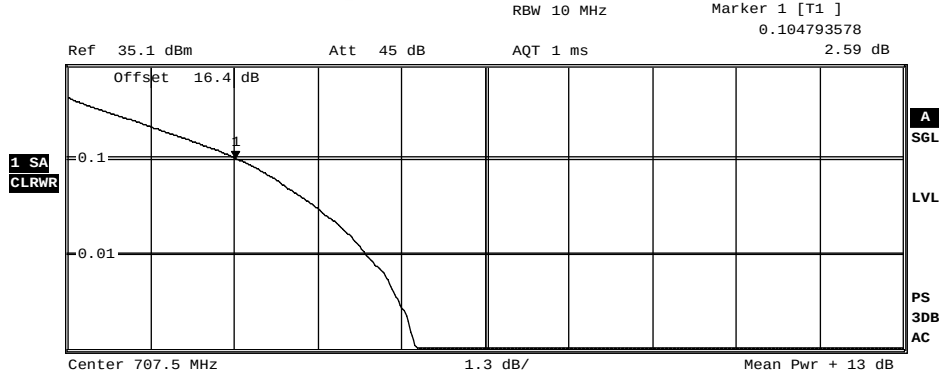
Complementary Cumulative Distribution Function
NOF samples: 16000, Usable BW: 11.2MHz

Trace 1
Mean 22.77 dBm
Peak 27.27 dBm
Crest 4.50 dB

10 % 2.67 dB
1 % 4.25 dB
.1 % 4.44 dB
.01 % 4.48 dB

Date: 3.MAY.2017 10:34:51

QPSK, 3 MHz CH23025, 1 RB high



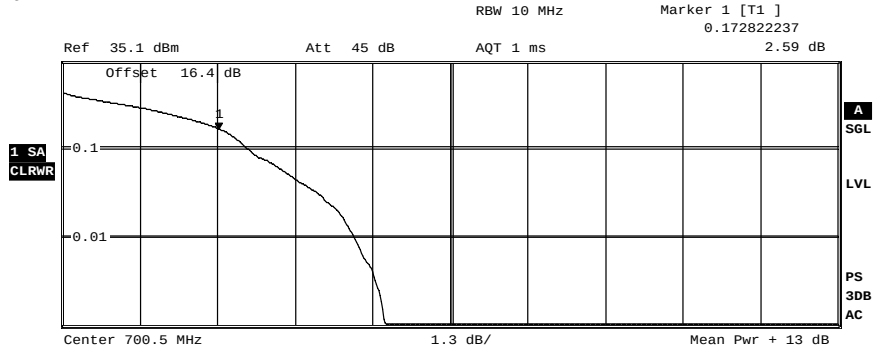
Complementary Cumulative Distribution Function
NOF samples: 16000, Usable BW: 11.2MHz

Trace 1
Mean 21.28 dBm
Peak 27.26 dBm
Crest 5.98 dB

10 % 2.67 dB
1 % 4.65 dB
.1 % 5.44 dB
.01 % 5.90 dB

Date: 3.MAY.2017 10:38:03

QPSK, 3 MHz CH23095, 100% RB



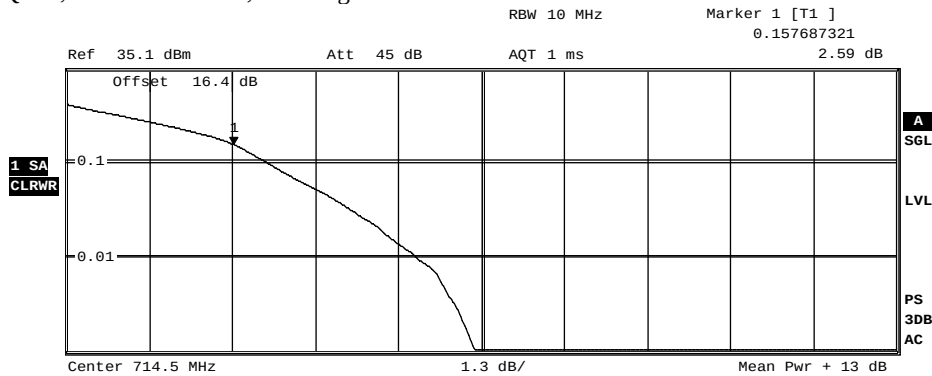
Complementary Cumulative Distribution Function
NOF samples: 16000, Usable BW: 11.2MHz

Trace 1
Mean 21.45 dBm
Peak 26.98 dBm
Crest 5.53 dB

10 % 3.10 dB
1 % 4.90 dB
.1 % 5.42 dB
.01 % 5.52 dB

Date: 3.MAY.2017 10:35:53

QAM, 3 MHz CH23025, 1 RB high



Complementary Cumulative Distribution Function
NOF samples: 16000, Usable BW: 11.2MHz

Trace 1
Mean 20.41 dBm
Peak 27.33 dBm
Crest 6.91 dB

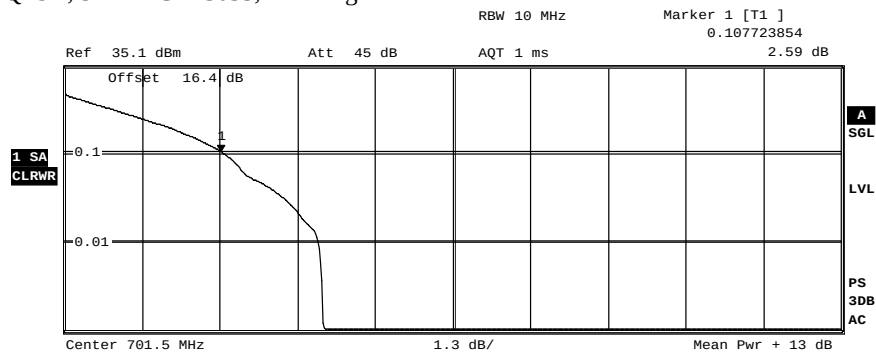
10 % 3.15 dB
1 % 5.48 dB
.1 % 6.42 dB
.01 % 6.81 dB

Date: 3.MAY.2017 10:40:03

QAM, 3 MHz CH23165, 100% RB

1.6.5.3. 5MHz signal bandwidth

QPSK, 5 MHz CH23035, 1 RB high

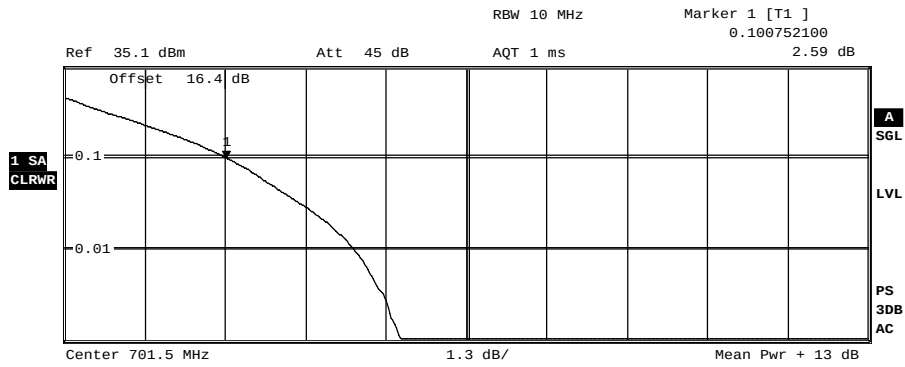


Complementary Cumulative Distribution Function
NOF samples: 16000, Usable BW: 11.2MHz

Trace 1
Mean 22.72 dBm
Peak 27.12 dBm
Crest 4.40 dB

10 % 2.67 dB
1 % 4.25 dB
.1 % 4.33 dB
.01 % 4.40 dB

Date: 3.MAY.2017 10:54:56



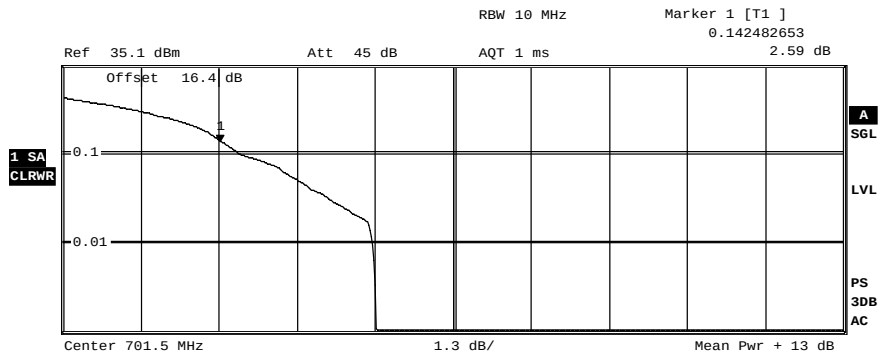
Complementary Cumulative Distribution Function
NOF samples: 16000, Usable BW: 11.2MHz

Trace 1
Mean 21.49 dBm
Peak 27.62 dBm
Crest 6.13 dB

10 %	2.60 dB
1 %	4.67 dB
.1 %	5.44 dB
.01 %	5.96 dB

Date: 3.MAY.2017 10:56:55

QPSK, 5 MHz CH23035, 100% RB.WMF



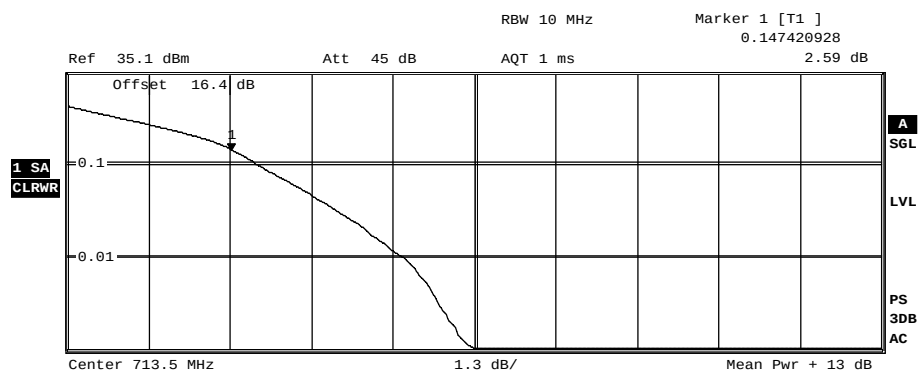
Complementary Cumulative Distribution Function
NOF samples: 16000, Usable BW: 11.2MHz

Trace 1
Mean 21.76 dBm
Peak 27.05 dBm
Crest 5.29 dB

10 %	2.96 dB
1 %	5.17 dB
.1 %	5.23 dB
.01 %	5.27 dB

Date: 3.MAY.2017 10:56:04

QAM, 5 MHz CH23035, 1 RB high



Complementary Cumulative Distribution Function
 NOF samples: 16000, Usable BW: 11.2MHz

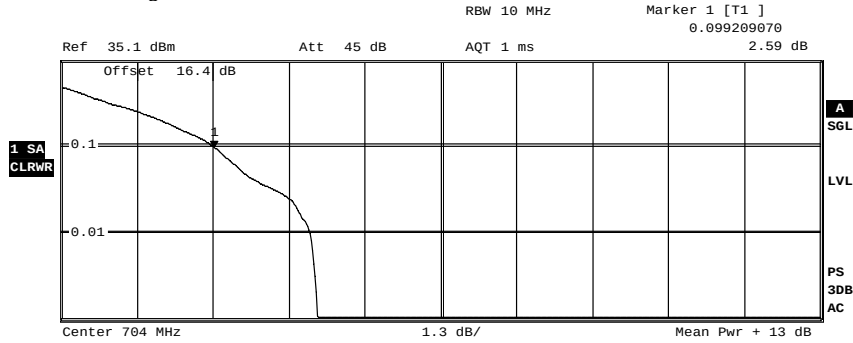
Trace 1
 Mean 20.44 dBm
 Peak 27.68 dBm
 Crest 7.24 dB

10 % 3.04 dB
 1 % 5.35 dB
 .1 % 6.56 dB
 .01 % 7.19 dB

Date: 3.MAY.2017 10:58:21

QAM, 5 MHz CH23155, 100% RB

1.6.5.4. 10MHz signal bandwidth



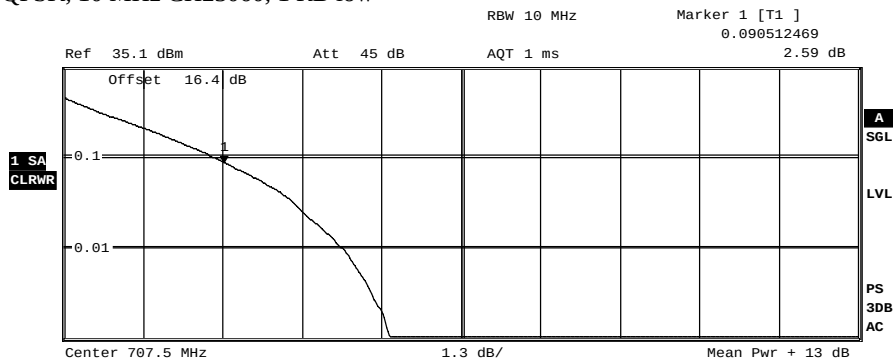
Complementary Cumulative Distribution Function
NOF samples: 16000, Usable BW: 11.2MHz

Trace 1
Mean 22.65 dBm
Peak 27.12 dBm
Crest 4.47 dB

10 % 2.60 dB
1 % 4.27 dB
.1 % 4.40 dB
.01 % 4.46 dB

Date: 3.MAY.2017 11:00:39

QPSK, 10 MHz CH23060, 1 RB low



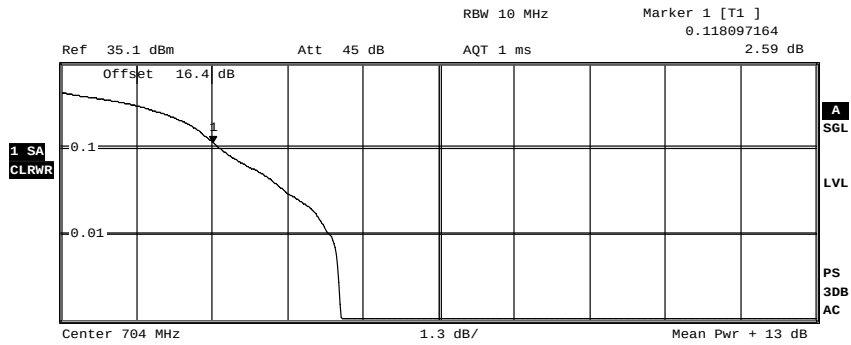
Complementary Cumulative Distribution Function
NOF samples: 16000, Usable BW: 11.2MHz

Trace 1
Mean 21.40 dBm
Peak 27.82 dBm
Crest 6.42 dB

10 % 2.46 dB
1 % 4.54 dB
.1 % 5.33 dB
.01 % 6.17 dB

Date: 3.MAY.2017 11:04:03

QPSK, 10 MHz CH23095, 100% RB



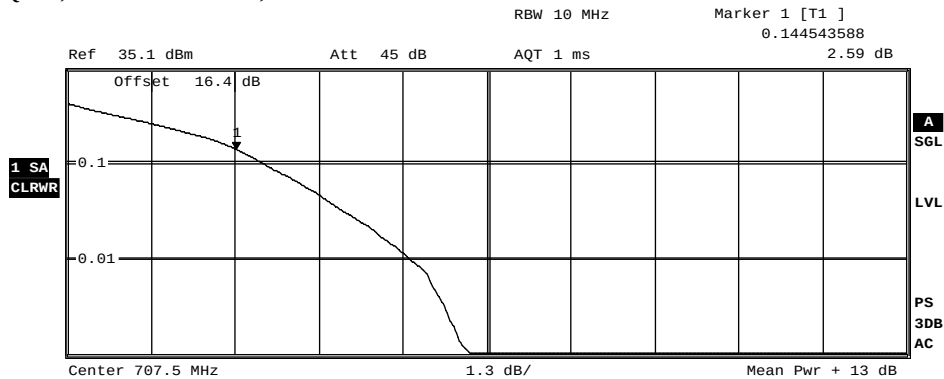
Complementary Cumulative Distribution Function
NOF samples: 16000, Usable BW: 11.2MHz

Trace 1
Mean 22.25 dBm
Peak 27.12 dBm
Crest 4.87 dB

10 % 2.73 dB
1 % 4.60 dB
.1 % 4.83 dB
.01 % 4.88 dB

Date: 3.MAY.2017 11:01:43

QAM, 10 MHz CH23060, 1 RB low



Complementary Cumulative Distribution Function
NOF samples: 16000, Usable BW: 11.2MHz

Trace 1
Mean 20.41 dBm
Peak 27.40 dBm
Crest 6.99 dB

10 % 3.04 dB
1 % 5.31 dB
.1 % 6.25 dB
.01 % 6.71 dB

Date: 3.MAY.2017 11:05:08

QAM, 10 MHz CH23095, 100% RB

1.7. Spurious emissions radiated (LTE Band 2)**1.7.1. Magnetic field strength radiated (LTE Band 2)****Diagram No. 2.20_RSE_R_Ch18700_BW_20**

Date:	18.04.2017	Page 1 of 3
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	
EUT Position:	EUT Standing	
Operator:	Mah	
Operating conditions:	Humidity: 35%rH; Temperature: 21°C	
Power during tests:	12V DC	
Comment 1:	LTE Band2 Ch:18700, BW:20MHz, RB: 1 High, QPSK	

EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG
EUT:	V1231-0

HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum

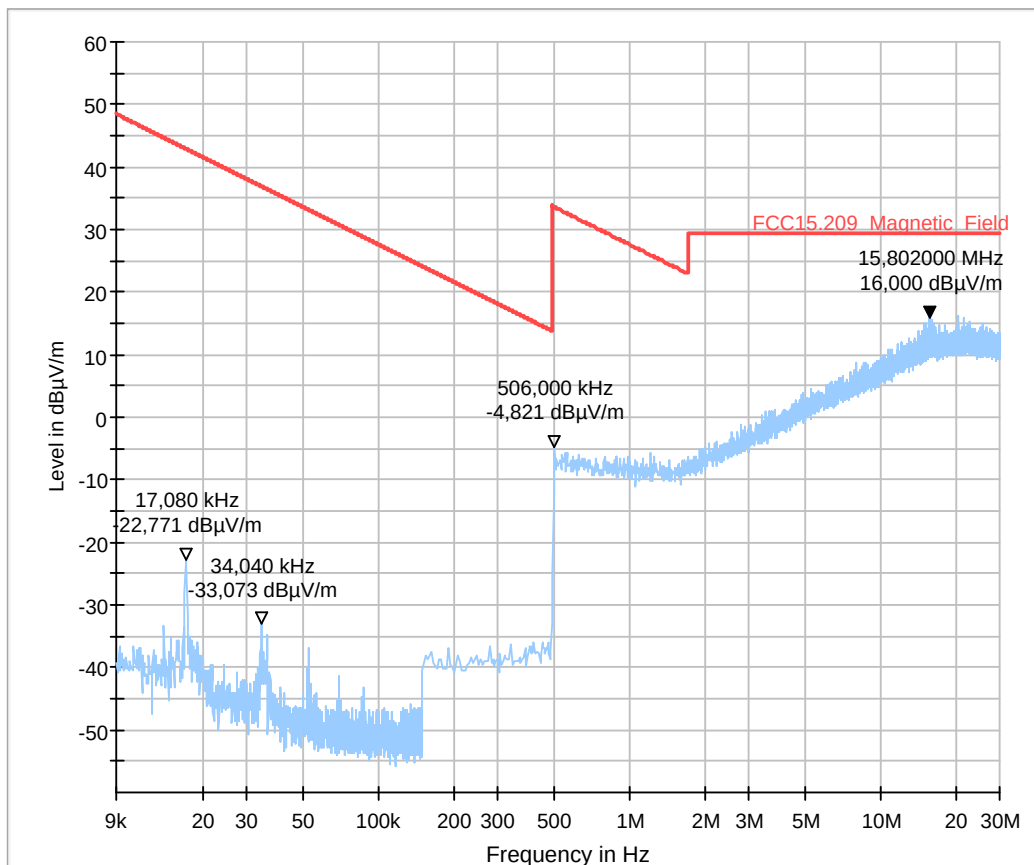


Diagram No. 2.20a_RSE_R_Ch18700_BW_20

Test description:
Test site and distance:
Version of Testsoftware:
Distance correction:
Technical Data:
Rec. antenna (pre-scan):
Used filter:
Test specification:

Date: 10.04.2017 Page 1 of 1
Magnetic Field Strength Measurement related to 30/300 m distance
Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
EMC32 V9.25.0
used accord. table, pls. see test report
Please see page 2 for detailed data of measurement setup
height 1.00 m, parallel and 90° to EUT polarisation
bypass
FCC 15.205 § 15.209; RSS-Gen: Issue 4

Operator:
Operating conditions:
Power during tests:
Comment 1:

HLa
LTE Band2 Ch:18700, BW:20MHz, RB: 1 High, QPSK
12V DC
Channel low

EUT Information

Manufacturer:
EUT:

peiker acoustic GmbH & Co. KG
V1231-0

HW version:
SW version:
Serial number:
Connected Interfaces:

V1231-0_Ver.1
MPSS.TH.2.0.2-00256
004402580040446
Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna
LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables

Power Supply:
Comments:

12VDC
-

Full Spectrum

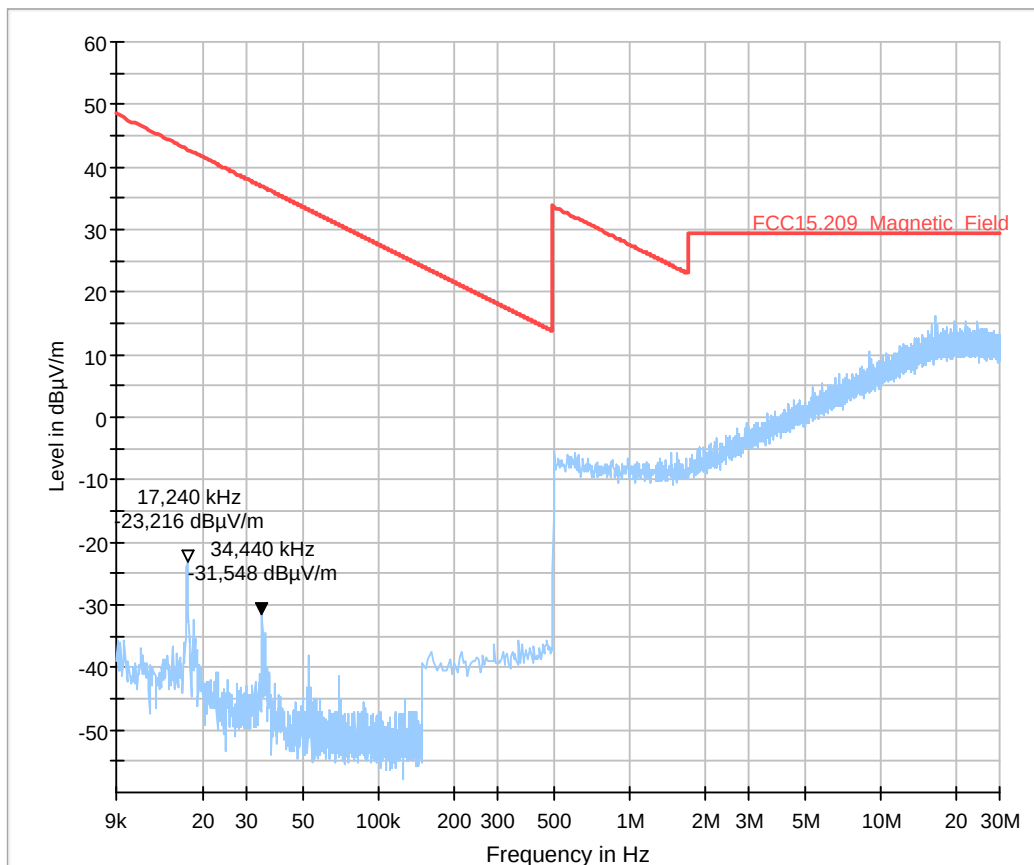


Diagram No. 2.21_RSE_R_Ch18900_BW_20

Test description:

Test site and distance:

Version of Testsoftware:

Distance correction:

Technical Data:

Rec. antenna (pre-scan):

Used filter:

Test specification:

EUT Position:

Operator:

Operating conditions:

Power during tests:

Comment 1:

Date: 18.04.2017 Page 1 of 3

Magnetic Field Strength Measurement related to 30/300 m distance

Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance

EMC32 V9.25.0

used accord. table, pls. see test report

Please see page 2 for detailed data of measurement setup

height 1.00 m, parallel and 90° to EUT polarisation

bypass

FCC 15.205 § 15.209; RSS-Gen: Issue 4

EUT Standing

Mah

Humidity: 35%rH; Temperature: 21°C

12V DC

LTE Band2 Ch:18900, BW:20MHz, RB: 1 low, QPSK

EUT Information

Manufacturer:

EUT:

peiker acoustic GmbH & Co. KG

V1231-0

HW version:

SW version:

Serial number:

Connected Interfaces:

Power Supply:

Comments:

V1231-0_Ver.1

MPSS.TH.2.0.2-00256

004402580040446

Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna

LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables

12VDC

-

Full Spectrum

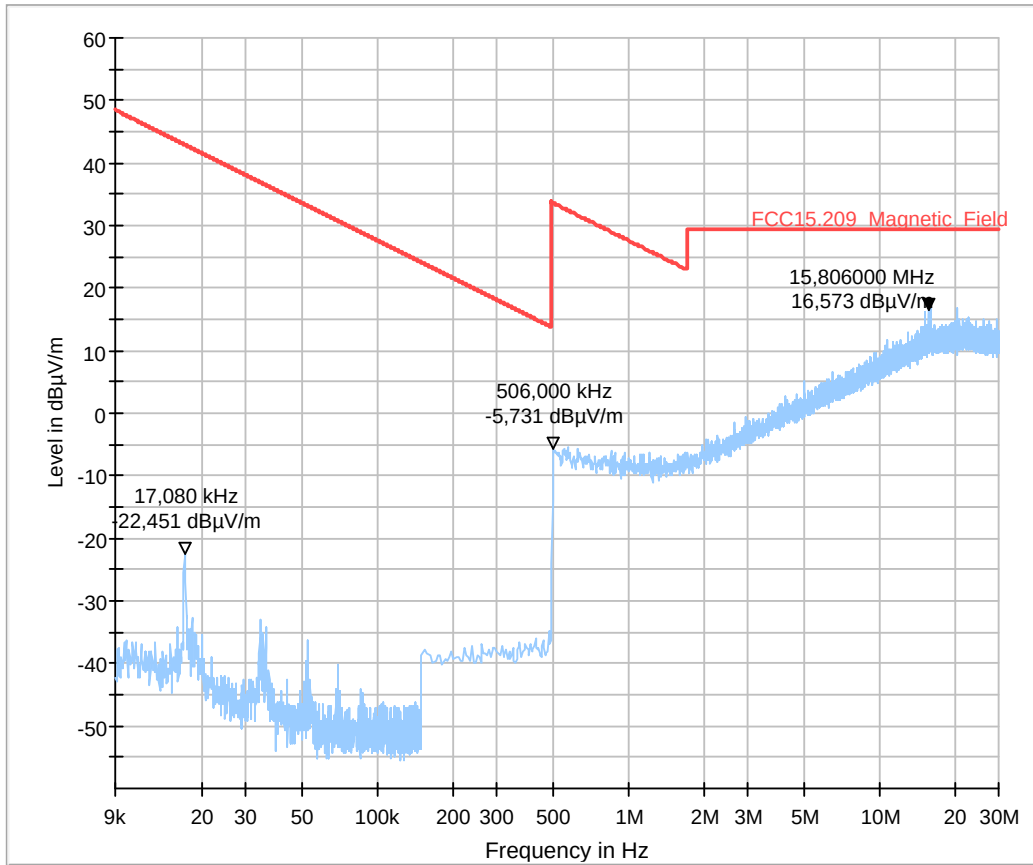


Diagram No. 2.21a_RSE_R_Ch18900_BW_20

Date: 10.04.2017 Page 1 of 1
 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: HLa
 Operating conditions: LTE Band2 Ch:1900, BW:20MHz, RB: 1 low, QPSK
 Power during tests: 12V DC
 Comment 1:

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1231-0

HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum

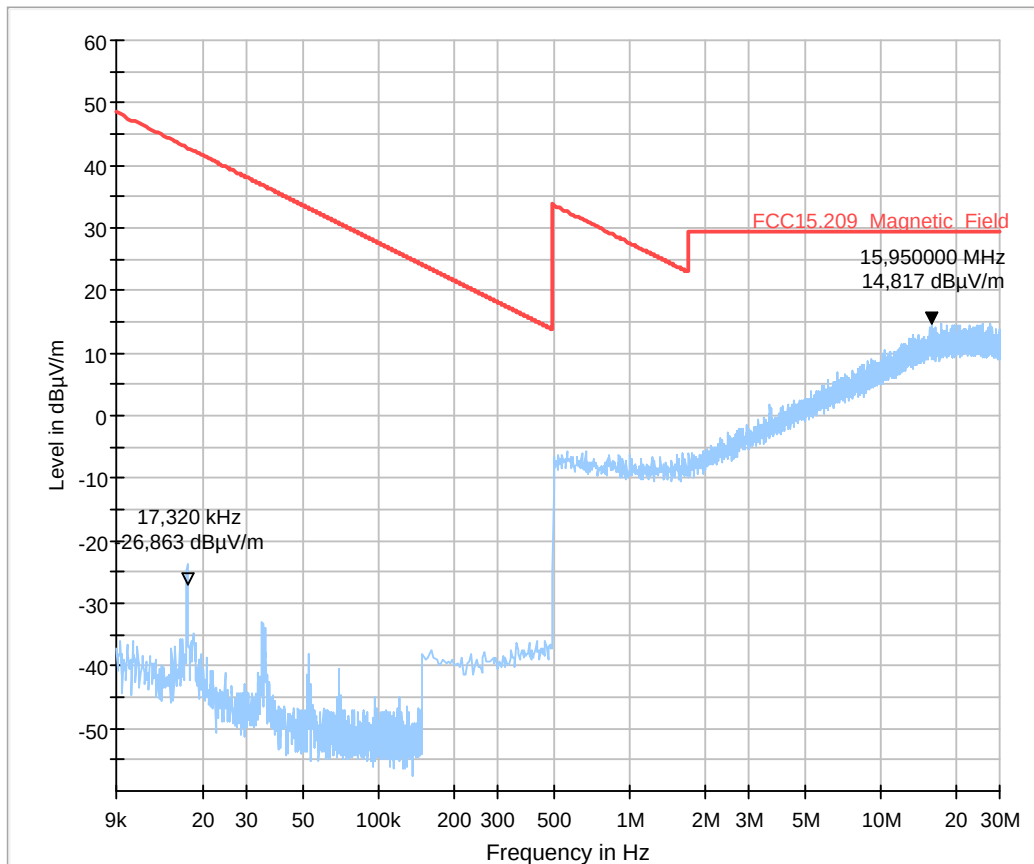


Diagram No. 2.22_RSE_R_Ch19150_BW_20

Test description:	Date: 18.04.2017 Page 1 of 3
Test site and distance:	Magnetic Field Strength Measurement related to 30/300 m distance
Version of Testsoftware:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Distance correction:	EMC32 V9.25.0
Technical Data:	used accord. table, pls. see test report
Rec. antenna (pre-scan):	Please see page 2 for detailed data of measurement setup
Used filter:	height 1.00 m, parallel and 90° to EUT polarisation
Test specification:	bypass
EUT Position:	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operator:	EUT Standing
Operating conditions:	Mah
Power during tests:	Humidity: 35%rH; Temperature: 21°C
Comment 1:	12V DC
	LTE Band2 Ch:19150, BW:10MHz, RB: 1 low, QPSK

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1231-0
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum

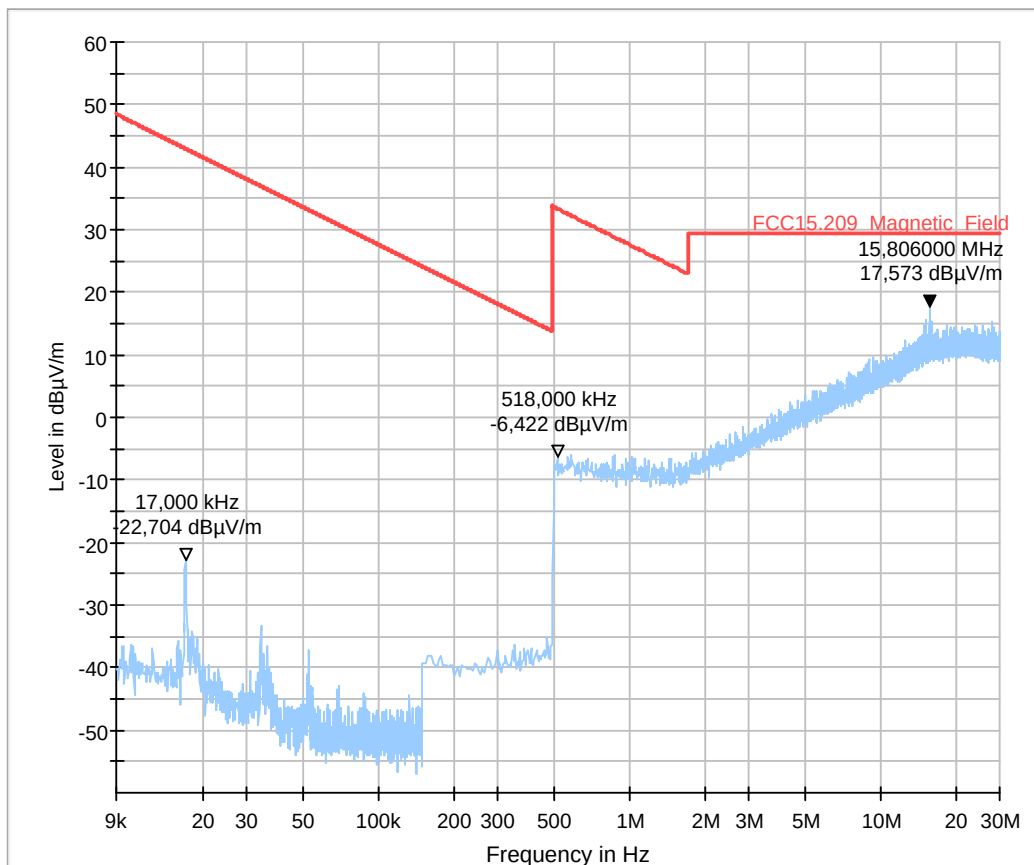


Diagram No. 2.22a_RSE_R_Ch19150_BW_20

Date: 10.04.2017 Page 1 of 1
 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

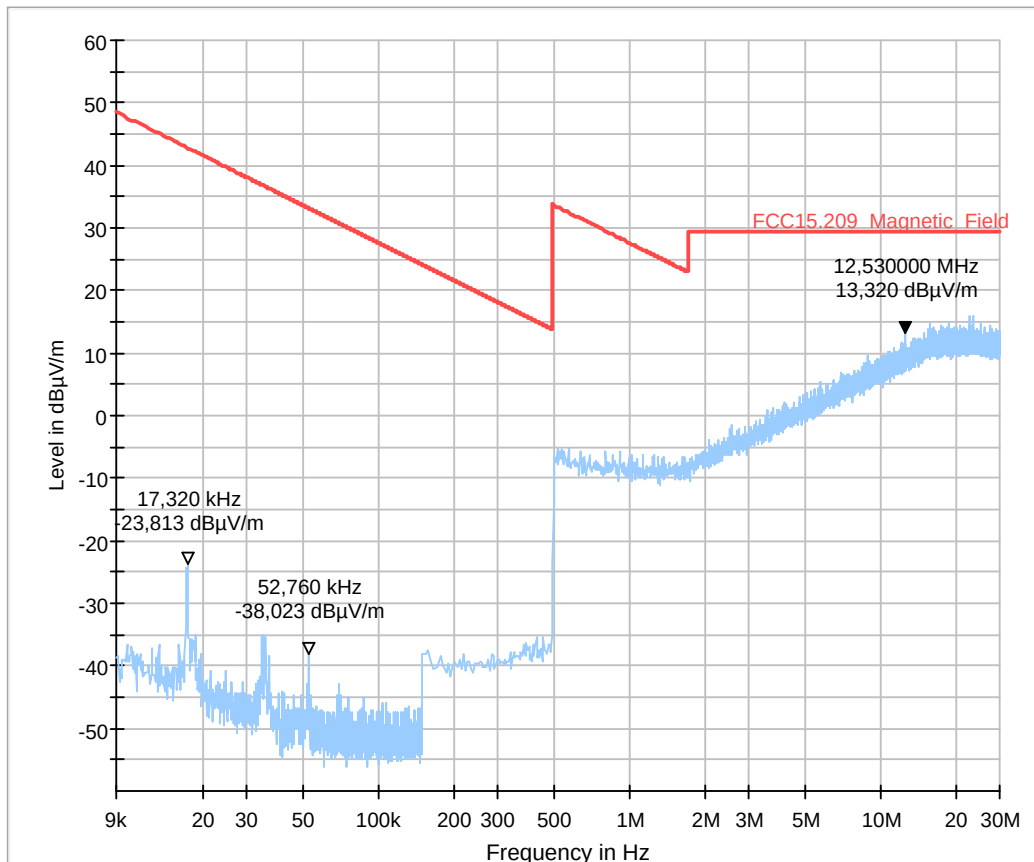
Operator: HLa
 Operating conditions: LTE Band2 Ch:19150, BW:10MHz, RB: 1 low, QPSK
 Power during tests: 12V DC
 Comment 1:

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1231-0

HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



1.7.2. Emissions above 30MHz (LTE Band 2)

8.20_RSE_R_Ch18700_BW_20_Standing

Common Information

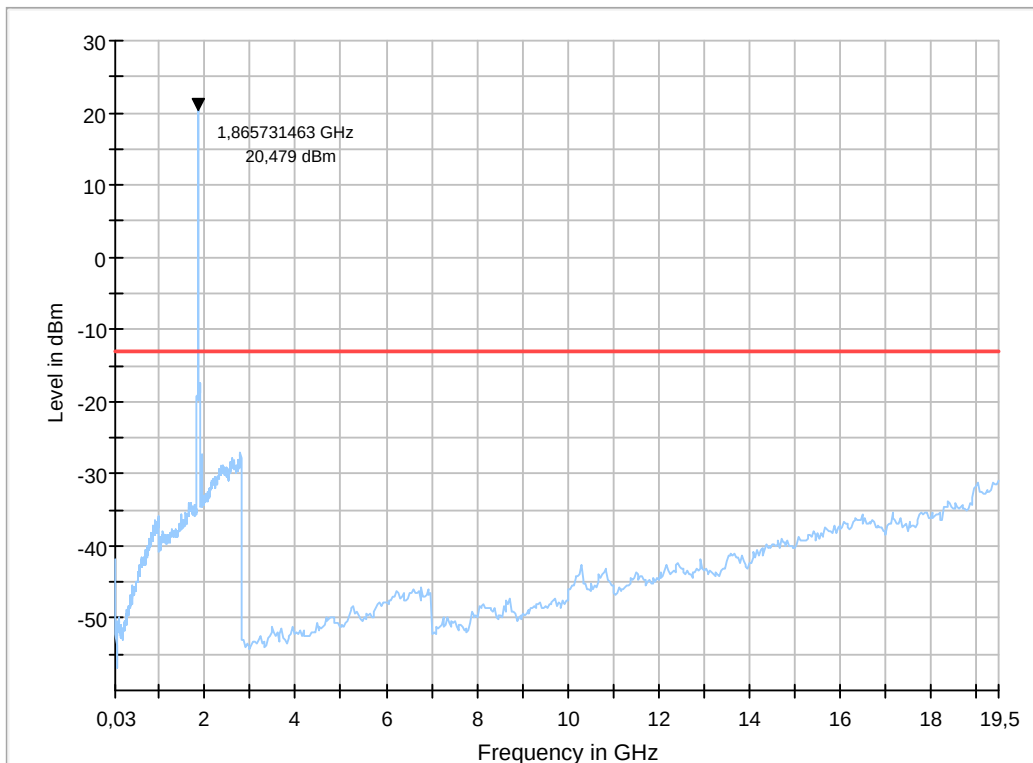
Test Description:	Radiated Spurious Emissions LTE Band 2
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 24
Operating Mode:	UE allocated channel 18700/BW:20/RB:1 high/QPSK
Environmental Conditions:	Humidity: 51%rH; Temperature: 20°C
Operator:	SLo
Comment:	EUT - standing position

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1231-0

HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



8.20_RSE_R_Ch18700_BW_20_Laying

Common Information

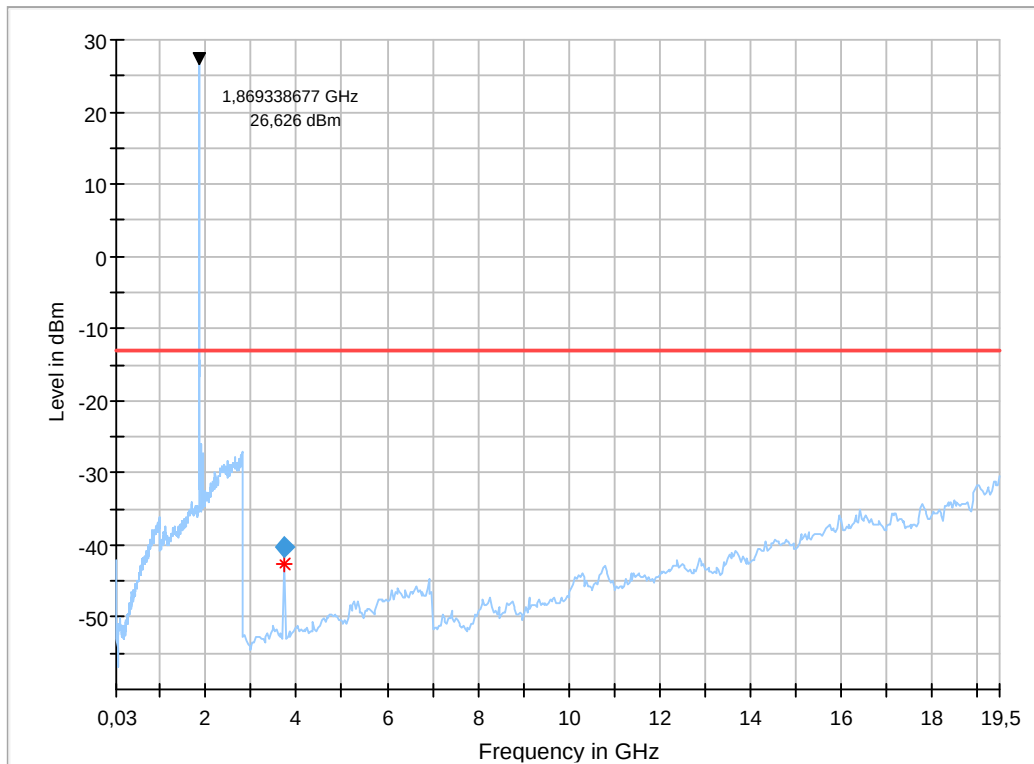
Test Description: Radiated Spurious Emissions LTE Band 2
 Test Site Location: CETECOM GmbH Essen
 Test Site: Fully Anechoic Room (FAR)
 Test Standard: FCC Part 24
 Operating Mode: UE allocated channel 18700/BW:20/RB:1 high/QPSK
 Environmental Conditions: Humidity: 49%rH; Temperature: 21°C
 Operator: SLo
 Comment: EUT - laying position

EUT Information

Manufacturer: peiker acoustic GmbH & Co. KG
 EUT: V1231-0

 HW version: V1231-0_Ver.1
 SW version: MPSS.TH.2.0.2-00256
 Serial number: 004402580040446
 Connected Interfaces: Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
 Power Supply: 12VDC
 Comments: -

Full Spectrum



Final Result

Frequency (MHz)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
3737.825651	13.00	27.36	10000.0	V	328.0	0.0	-95.0

8.21_RSE_R_Ch18900_BW_20_Standing

Common Information

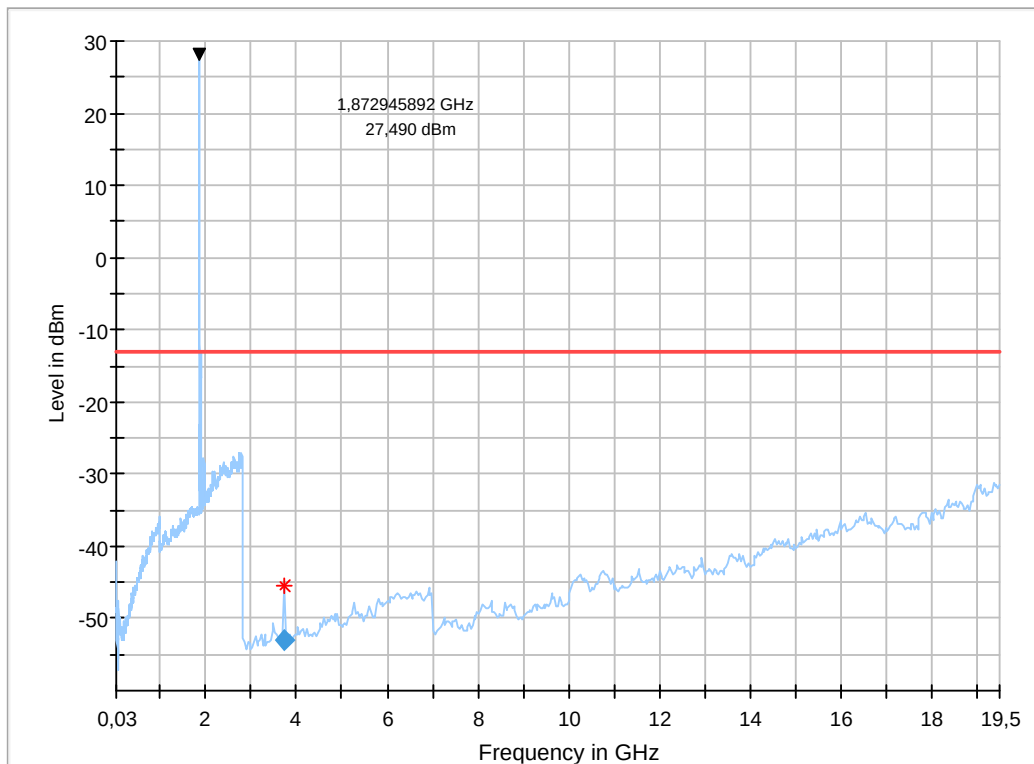
Test Description:	Radiated Spurious Emissions LTE Band 2
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 24
Operating Mode:	UE allocated channel 18900/BW:20/RB:1 low/QPSK
Environmental Conditions:	Humidity: 51%rH; Temperature: 20°C
Operator:	SLo
Comment:	EUT - standing position

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1231-0

HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



Final Result

Frequency (MHz)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
3736.711423	-13.00	39.99	10000.0	V	185.0	0.0	-95.0

8.21_RSE_R_Ch18900_BW_20_Laying

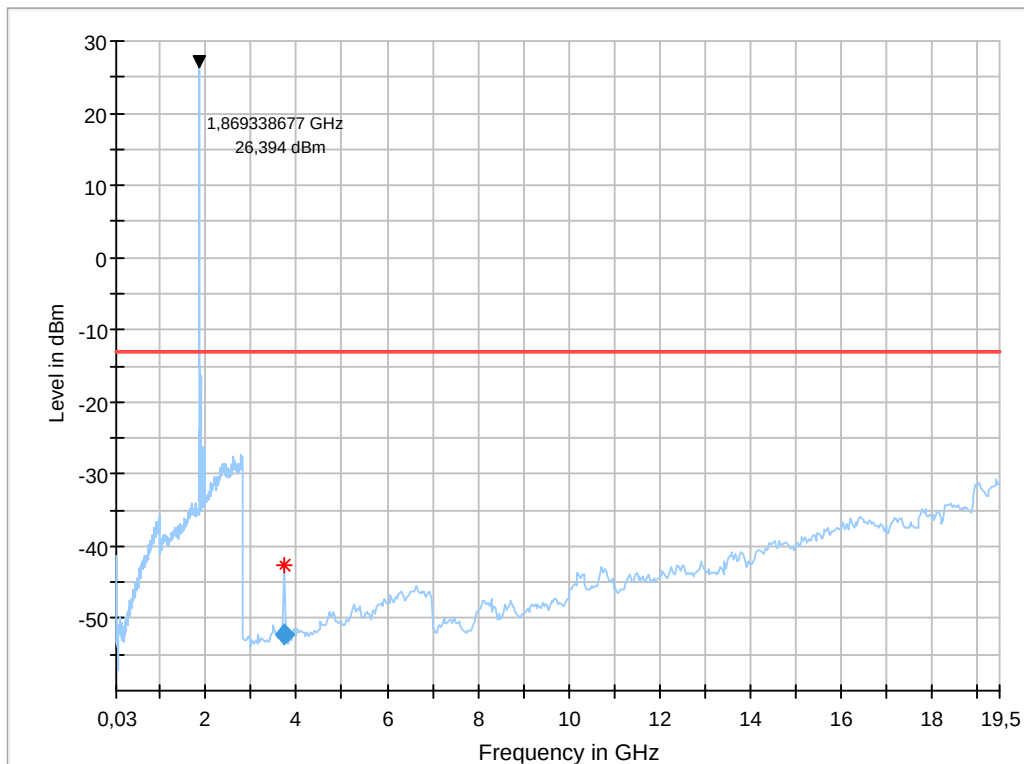
Common Information

Test Description:	Radiated Spurious Emissions LTE Band 2
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 24
Operating Mode:	UE allocated channel 18900/BW:20/RB:1 low/QPSK
Environmental Conditions:	Humidity: 49%rH; Temperature: 21°C
Operator:	SLo
Comment:	EUT - laying position

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1231-0
-----	-----
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



Final Result

Frequency (MHz)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
3738.038076	-13.00	39.12	10000.0	V	310.0	0.0	-95.0

8.22_RSE_R_Ch19150_BW_20_Standing

Common Information

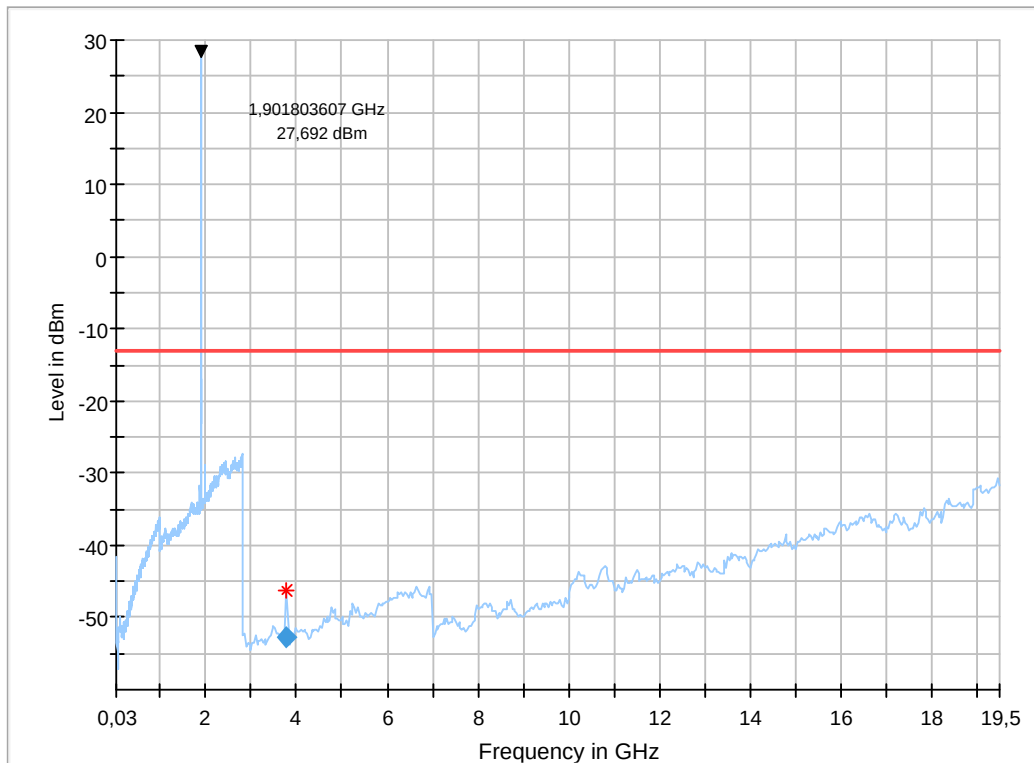
Test Description: Radiated Spurious Emissions LTE Band 2
 Test Site Location: CETECOM GmbH Essen
 Test Site: Fully Anechoic Room (FAR)
 Test Standard: FCC Part 24
 Operating Mode: UE allocated channel 19150/BW:10/RB:1 low/QPSK
 Environmental Conditions: Humidity: 51%rH; Temperature: 20°C
 Operator: SLo
 Comment: EUT - standing position

EUT Information

Manufacturer: peiker acoustic GmbH & Co. KG
 EUT: V1231-0

 HW version: V1231-0_Ver.1
 SW version: MPSS.TH.2.0.2-00256
 Serial number: 004402580040446
 Connected Interfaces: Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
 Power Supply: 12VDC
 Comments: -

Full Spectrum



Final Result

Frequency (MHz)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
3770.579158	13.00	39.78	10000.0	H	15.0	0.0	-95.1

8.22_RSE_R_Ch19150_BW_20_Laying

Common Information

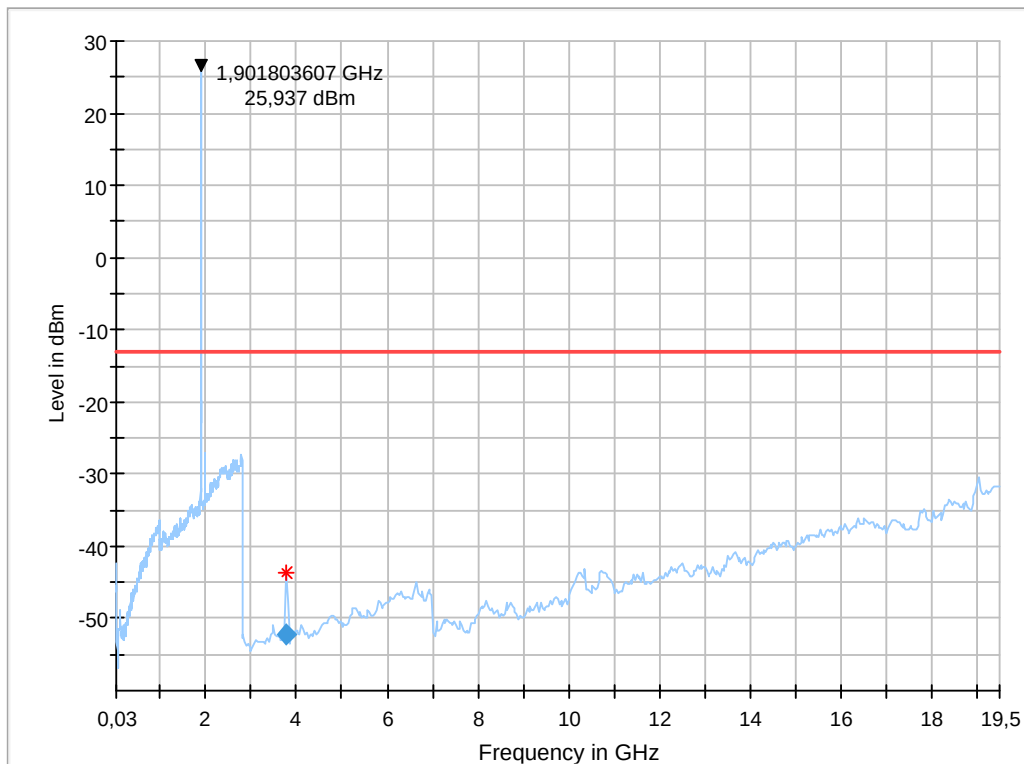
Test Description:	Radiated Spurious Emissions LTE Band 2
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 24
Operating Mode:	UE allocated channel 19150/BW:10/RB:1 low/QPSK
Environmental Conditions:	Humidity: 49%rH; Temperature: 21°C
Operator:	SLo
Comment:	EUT - laying position

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1231-0

HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



Final Result

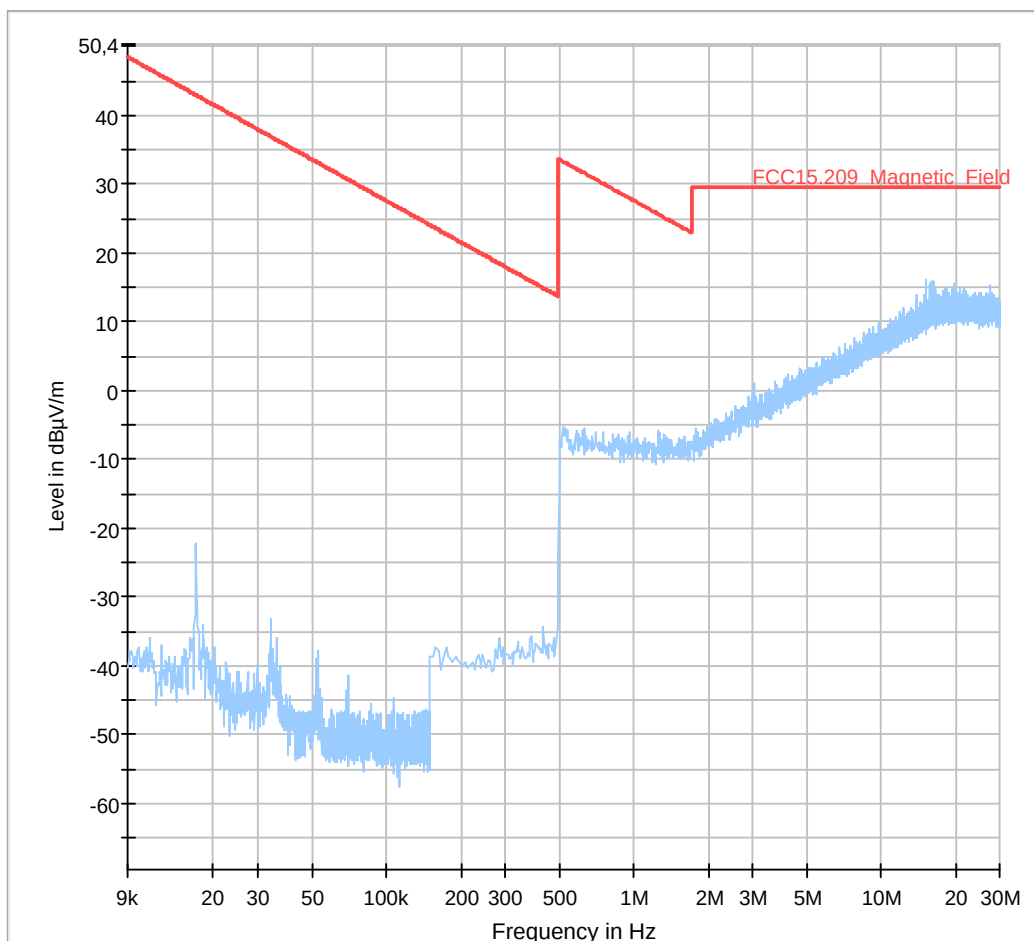
Frequency (MHz)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
3771.272545	-13.00	39.19	10000.0	V	104.0	0.0	-95.1

1.8. Spurious emissions radiated (LTE Band 4)**1.8.1. Magnetic field strength radiated (LTE Band 4)****2.40_RSE_R_Ch20050_BW_20_Standing****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 date:	Please see page 2 for detailed data of measurement setup
Rec. antenna (pre-scan):	height 1.00m, parallel and 90° to EUT polarisation
Used filter:	bypass
Test specification:	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operator:	MBe
Power during tests:	12V DC
Comment 1:	EUT standing

EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG
EUT:	V1231-0
-----	-----
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-



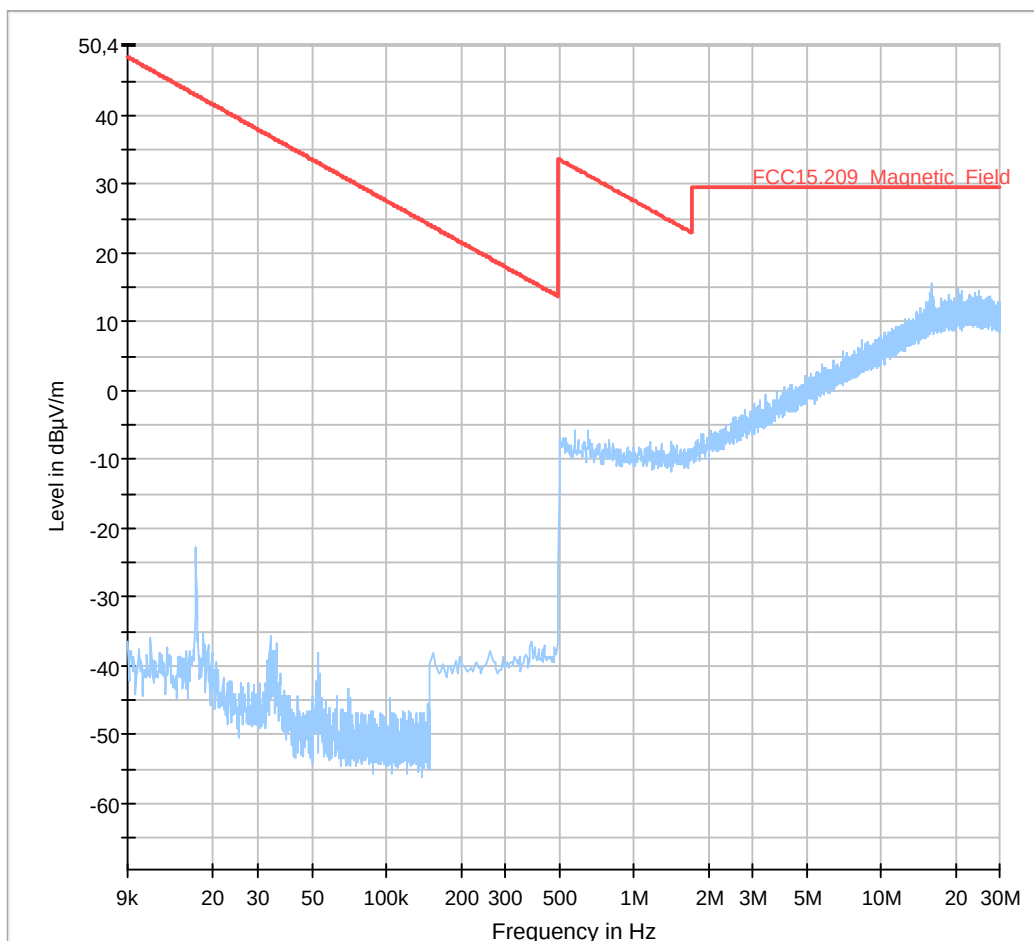
2.40b_RSE_R_Ch20050_BW_20_Laying

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 date:	Please see page 2 for detailed data of measurement setup
Rec. antenna (pre-scan):	height 1.00m, parallel and 90° to EUT polarisation
Used filter:	bypass
Test specification:	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operator:	MBe
Power during tests:	12V DC
Comment 1:	EUT laying

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1231-0
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-



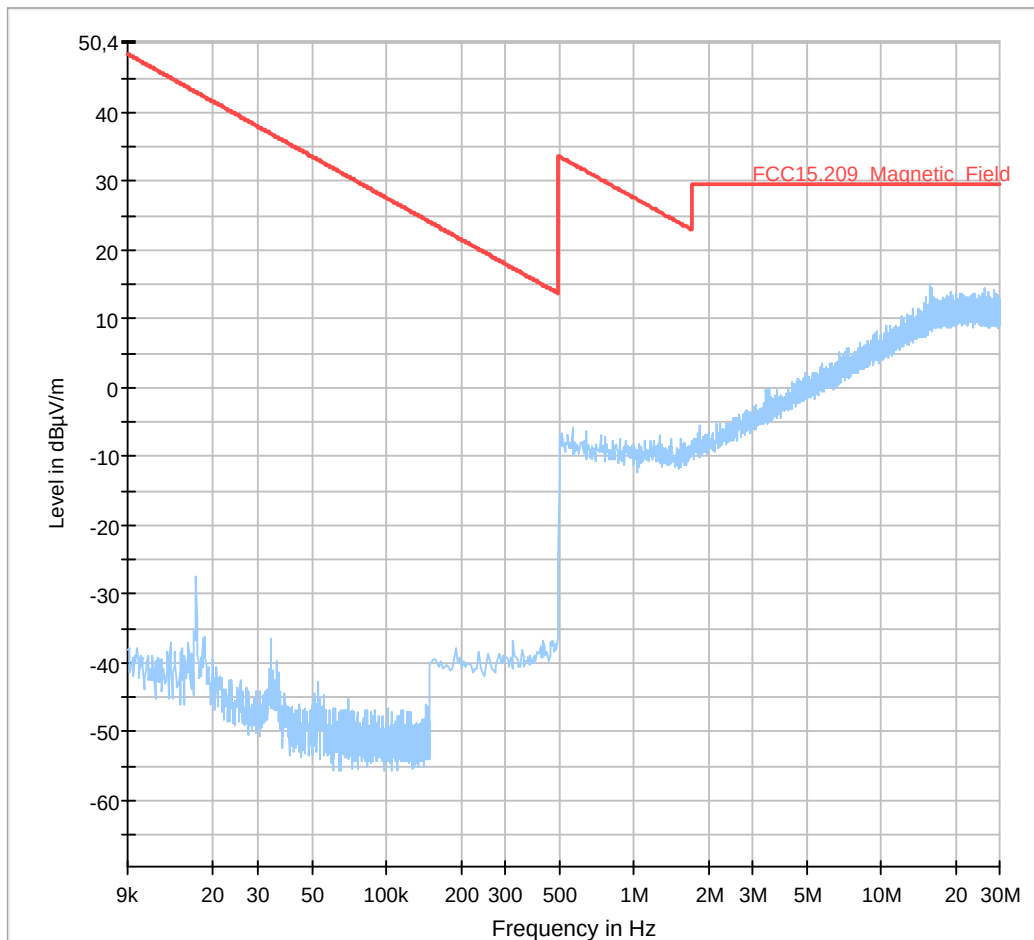
2.41_RSE_R_Ch20175_BW10_Standing

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 date:	Please see page 2 for detailed data of measurement setup
Rec. antenna (pre-scan):	height 1.00m, parallel and 90° to EUT polarisation
Used filter:	bypass
Test specification:	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operator:	MBe
Power during tests:	12V DC
Comment 1:	EUT standing

EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG
EUT:	V1231-0
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-



2.41b_RSE_R_Ch20175_BW10_Laying

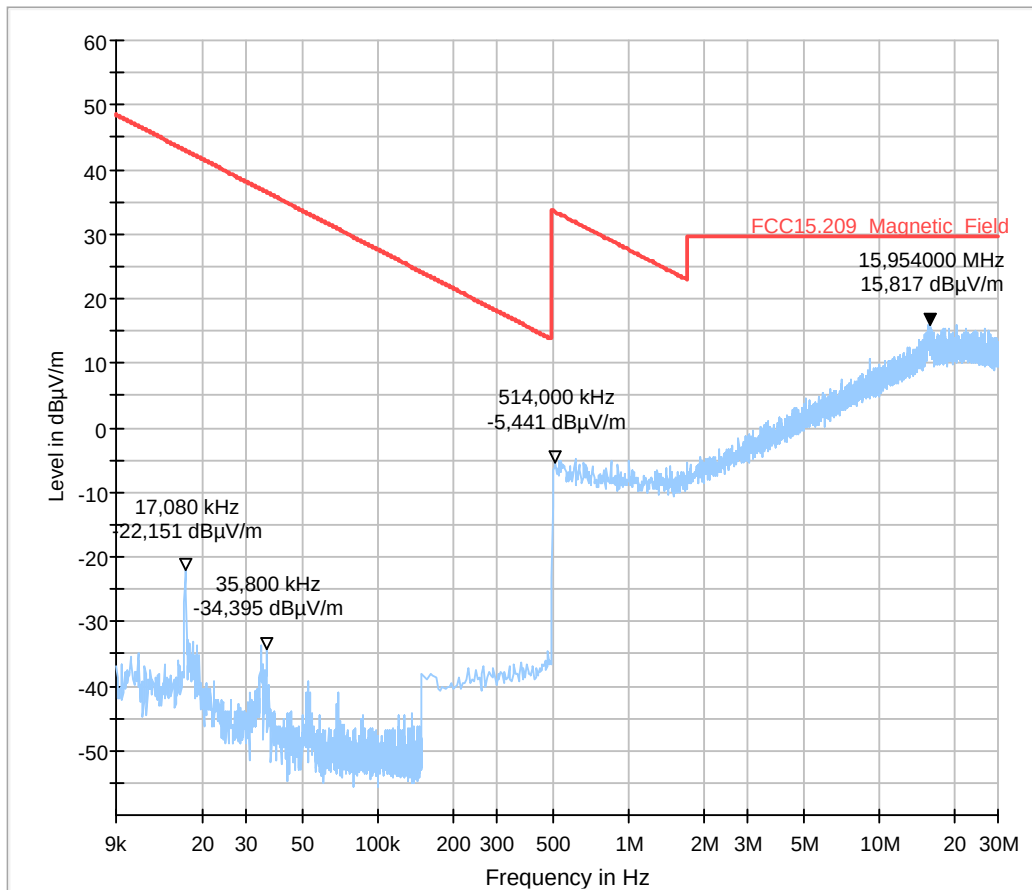
Test Description: Magnetic Field Strength Measurement related to 30/300 m distance
 Test site and distance: Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
 Version of testsoftware: EMC32 V9.25.0
 Distance correction: used accord. table, pls. see test report
 Technical date: Please see page 2 for detailed data of measurement setup
 Rec. antenna (pre-scan): height 1.00m, parallel and 90° to EUT polarisation
 Used filter: bypass
 Test specification: FCC 15.205 § 15.209; RSS-Gen: Issue 4

Operator: MBe
 Power during tests: 12V DC
 Comment 1: EUT laying

EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG
EUT:	PKD0632AA0 (y)
HW version:	V1231_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



2.42_RSE_R_Ch20350_BW10_Standing

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 date:	Please see page 2 for detailed data of measurement setup
Rec. antenna (pre-scan):	height 1.00m, parallel and 90° to EUT polarisation
Used filter:	bypass
Test specification:	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operator:	MBe
Power during tests:	12V DC
Comment :	EUT standing

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1231-0
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC

Comments:

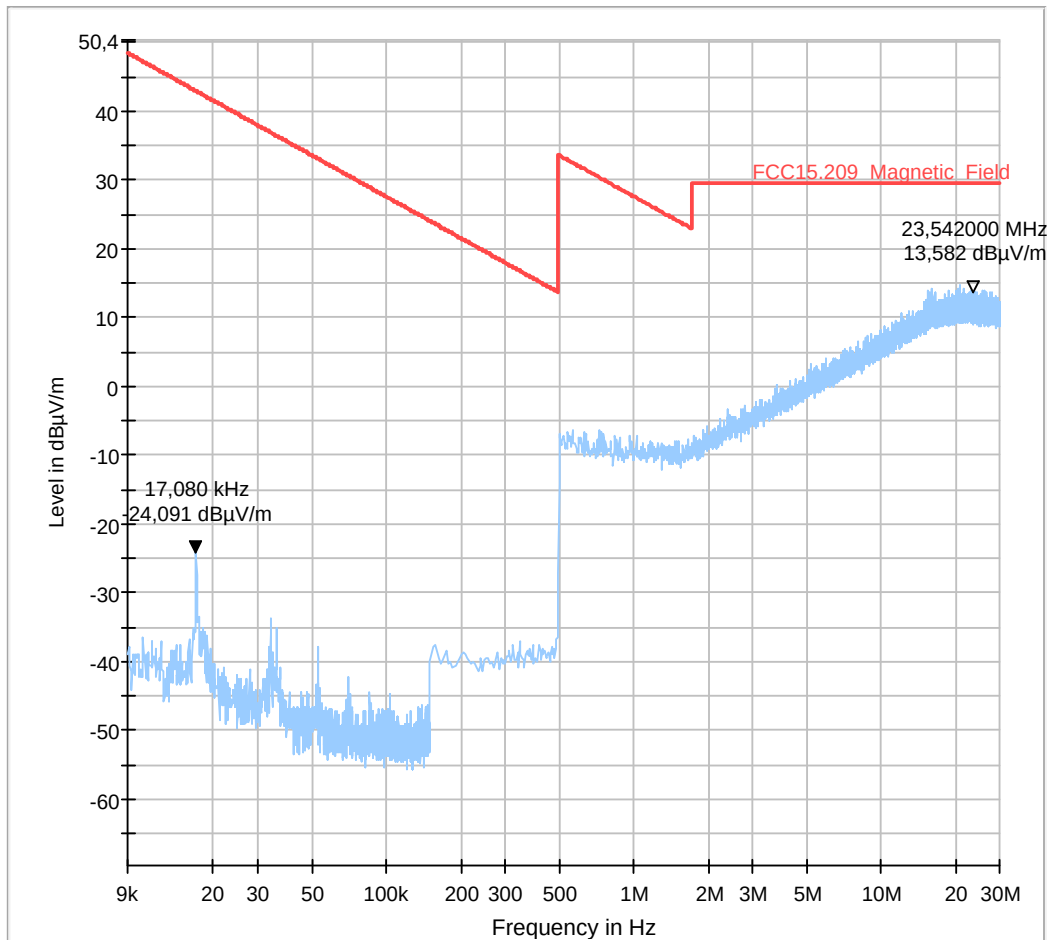


Diagram No. 2.42a_RSE_ R_Ch20350_BW_10_Laying

Test description:
Test site and distance:
Version of Testsoftware:
Distance correction:
Technical Data:
Rec. antenna (pre-scan):
Used filter:
Test specification:

Date: 11.04.2017 Page 1 of 2
Magnetic Field Strength Measurement related to 30/300 m distance
Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
EMC32 V9.25.0
used accord. table, pls. see test report
Please see page 2 for detailed data of measurement setup
height 1.00 m, parallel and 90° to EUT polarisation
bypass
FCC 15.205 § 15.209; RSS-Gen: Issue 4

Operator:
Operating conditions:
Power during tests:
Comment 1:

MAh SRa
LTE Band4 Ch:20350, BW:10MHz, RB: 1 high, QPSK
12V DC
EUT laying

EUT Information

Manufacturer:
EUT:

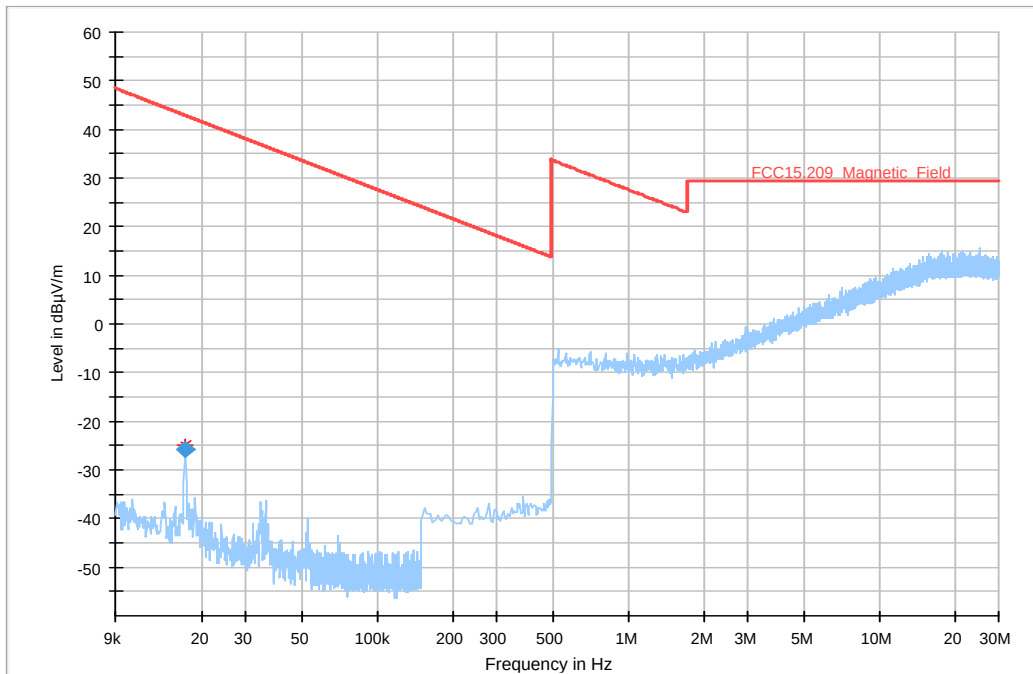
peiker acoustic GmbH & Co. KG
V1231-0

HW version:
SW version:
Serial number:
Connected Interfaces:

V1231-0_Ver.1
MPSS.TH.2.0.2-00256
004402580040446
Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna
LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables

Power Supply: 12VDC
Comments: -

Full Spectrum



Final Result

Frequency (MHz)	RMS (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
0.017080	-25.86	42.95	68.81	1000.0	0.200	100.0	V	6.0	-58.7

(continuation of the "Final_Result" table from column 16 ...)

Frequency (MHz)	Comment
0.017080	09:51:27 - 11.04.2017

1.8.2. Emissions above 30MHz (LTE Band 4)

8.40_RSE_R_Ch20050_BW_20_Standing

Common Information

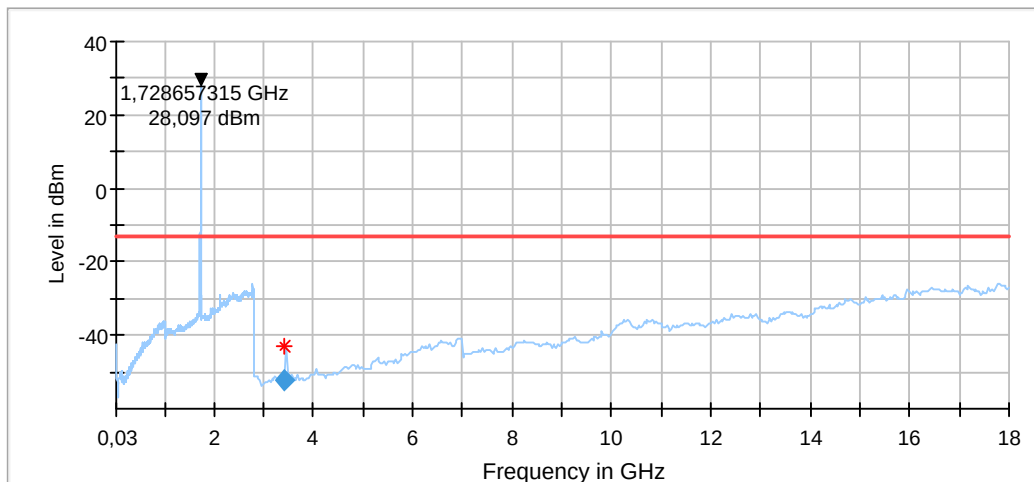
Test Description:	Radiated Spurious Emissions LTE Band 4
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 24
Operating Mode:	UE allocated channel 20050/ BW:20 / RB:1high / Position:standing
Environmental Conditions:	Humidity: 35%rH; Temperature: 20°C
Operator:	RIS
Remarks:	EUT - standing position

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1231-0

HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



Final Result

Frequency (MHz)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)	Comment
3428.587175	13.00	39.33	10000.0	155.0	H	43.0	0.0	-94.9	18:19:58 - 01.04.2017

8.40b_RSE_R_Ch20050_BW_20_Laying

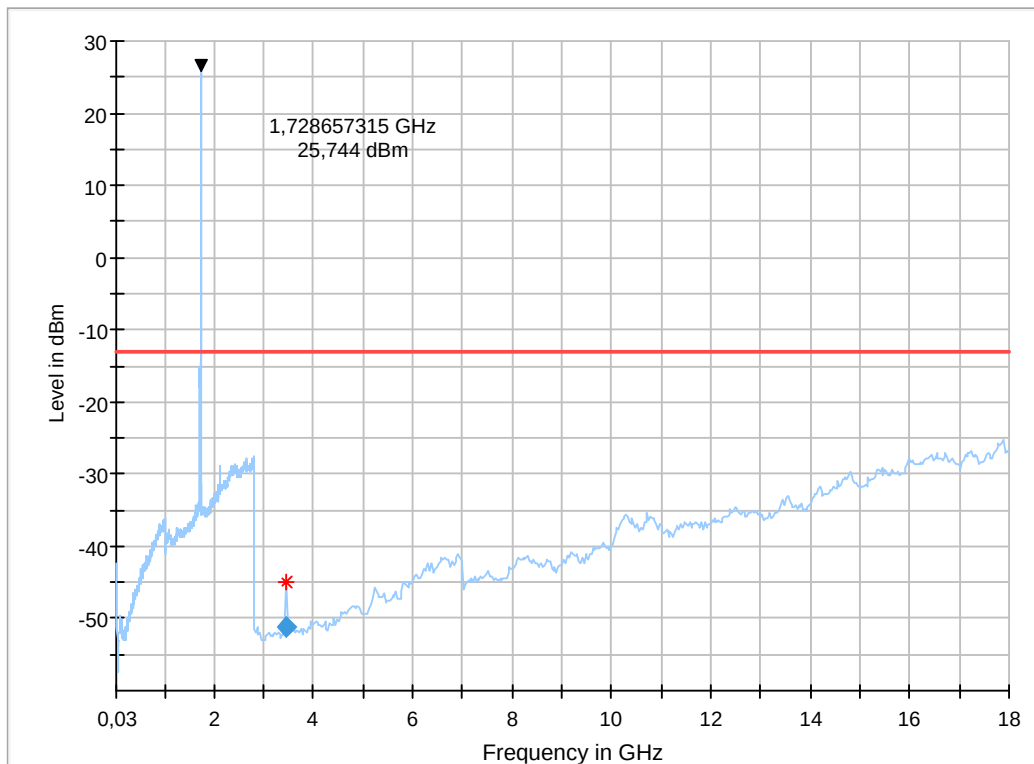
Common Information

Test Description:	Radiated Spurious Emissions LTE Band 4
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 27
Operating Mode:	UE allocated channel 20050/BW:20/RB:1 high/QPSK
Environmental Conditions:	Humidity: 51%rH; Temperature: 20°C
Operator:	SLo
Comment:	EUT - laying position

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1231-0
-----	-----
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



Final Result

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
3447.344690	-51.25	-13.00	38.25	10000.0	1000.000	155.0	V	-8.0	0.0	-94.5

(continuation of the "Final_Result" table from column 17 ...)

Frequency (MHz)	Comment
-----------------	---------

3447.344690 13:13:15 - 02.04.2017

8.41_RSE_R_Ch20175_BW10_Standing

Common Information

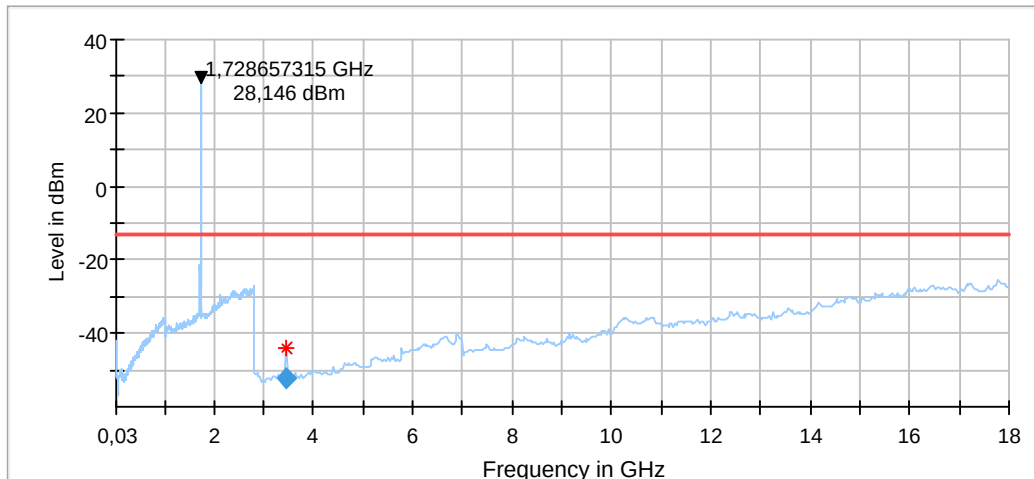
Test Description: Radiated Spurious Emissions LTE Band 4
 Test Site Location: CETECOM GmbH Essen
 Test Site: Fully Anechoic Room (FAR)
 Test Standard: FCC Part 24
 Operating Mode: UE allocated channel 20175/ BW:10 / RB:1low / Position:standing
 Environmental Conditions: Humidity: 35%rH; Temperature: 20°C
 Operator: RIs
 Remarks: EUT - standing position

EUT Information

Manufacturer: peiker acoustic GmbH & Co. KG
 EUT: V1231-0

 HW version: V1231-0_Ver.1
 SW version: MPSS.TH.2.0.2-00256
 Serial number: 004402580040446
 Connected Interfaces: Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
 Power Supply: 12VDC
 Comments: -

Full Spectrum



Final Result

Frequency (MHz)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)	Comment
3452.034068	13.00	39.10	10000.0	155.0	H	47.0	0.0	-94.4	17:44:36 - 01.04.2017

8.41b_RSE_R_Ch20175_BW10_Laying

Common Information

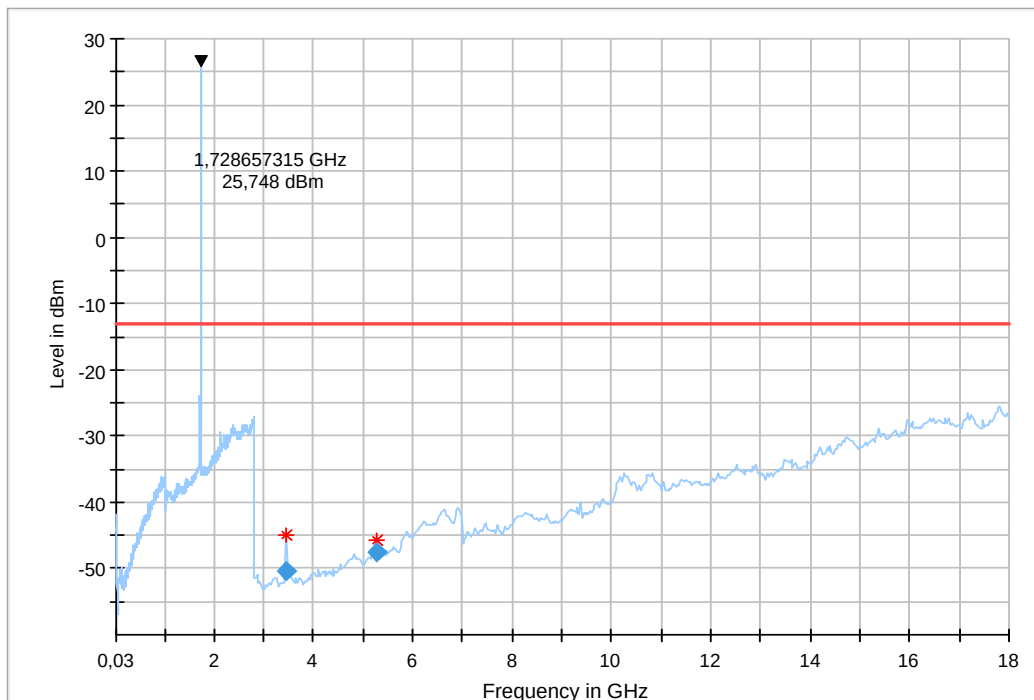
Test Description: Radiated Spurious Emissions LTE Band 4
 Test Site Location: CETECOM GmbH Essen
 Test Site: Fully Anechoic Room (FAR)
 Test Standard: FCC Part 27
 Operating Mode: UE allocated channel 20175/BW:10/RB:1 low/QPSK
 Environmental Conditions: Humidity: 51%rH; Temperature: 20°C
 Operator: SLo
 Comment: EUT - laying position

EUT Information

Manufacturer: peiker acoustic GmbH & Co. KG
 EUT: V1231-0

 HW version: V1231-0_Ver.1
 SW version: MPSS.TH.2.0.2-00256
 Serial number: 004402580040446
 Connected Interfaces: Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
 Power Supply: 12VDC
 Comments: -

Full Spectrum



Final Result

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
3454.679359	-50.30	-13.00	37.30	10000.0	1000.000	155.0	V	-8.0	0.0	-94.3
5276.503006	-47.57	-13.00	34.57	10000.0	1000.000	155.0	H	238.0	0.0	-88.6

(continuation of the "Final_Result" table from column 17 ...)

Frequency (MHz)	Comment
3454.679359	14:01:05 - 02.04.2017
5276.503006	13:56:13 - 02.04.2017

8.42_RSE_R_Ch20350_BW10_Standing

Common Information

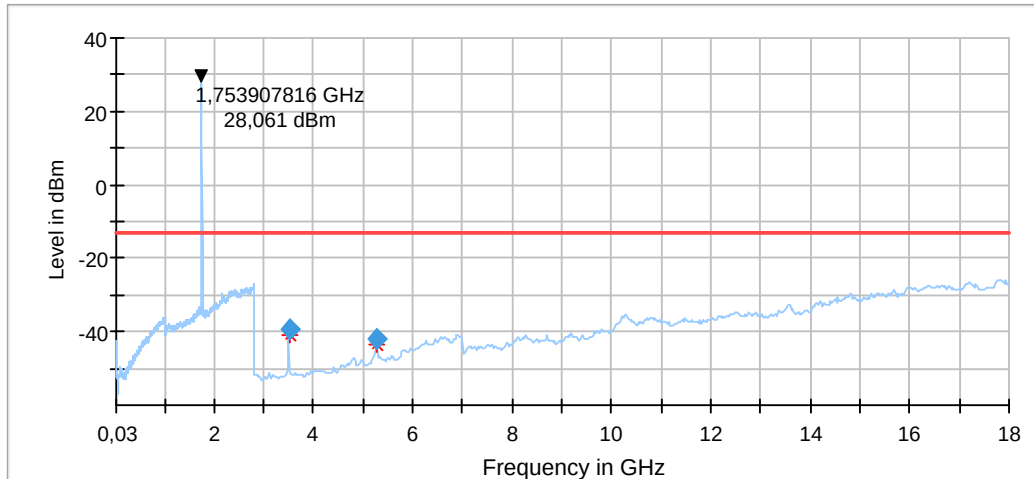
Test Description: Radiated Spurious Emissions LTE Band 4
 Test Site Location: CETECOM GmbH Essen
 Test Site: Fully Anechoic Room (FAR)
 Test Standard: FCC Part 24
 Operating Mode: UE allocated channel 20350/ BW:10 / RB:1high / Position:standing
 Environmental Conditions: Humidity: 35%rH; Temperature: 20°C
 Operator: Rls
 Remarks: EUT - standing position

EUT Information

Manufacturer: peiker acustic GmbH & Co. KG
 EUT: V1231-0

 HW version: V1231-0_Ver.1
 SW version: MPSS.TH.2.0.2-00256
 Serial number: 004402580040446
 Connected Interfaces: Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
 Power Supply: 12VDC
 Comments: -

Full Spectrum



Final Result

Frequency (MHz)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)	Comment
3508.807616	13.00	26.47	10000.0	155.0	H	45.0	0.0	-93.5	17:01:22 - 01.04.2017
5263.276553	13.00	29.17	10000.0	155.0	H	314.0	0.0	-88.5	17:03:13 - 01.04.2017

8.42b_RSE_R_Ch20350_BW10_Laying

Common Information

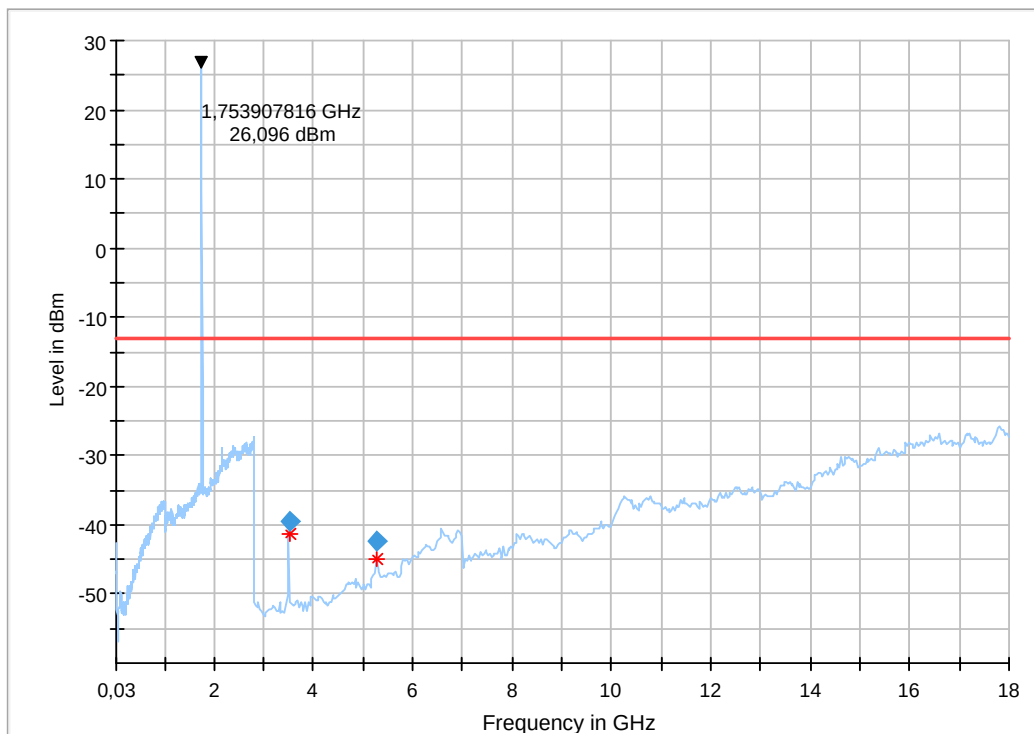
Test Description: Radiated Spurious Emissions LTE Band 4
 Test Site Location: CETECOM GmbH Essen
 Test Site: Fully Anechoic Room (FAR)
 Test Standard: FCC Part 27
 Operating Mode: UE allocated channel 20350/BW:10/RB:1 high/QPSK
 Environmental Conditions: Humidity: 51%rH; Temperature: 20°C
 Operator: SLo
 Comment: EUT - laying position

EUT Information

Manufacturer: peiker acoustic GmbH & Co. KG
 EUT: V1231-0

 HW version: V1231-0_Ver.1
 SW version: MPSS.TH.2.0.2-00256
 Serial number: 004402580040446
 Connected Interfaces: Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
 Power Supply: 12VDC
 Comments: -

Full Spectrum



Final Result

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
3508.747496	-39.50	-13.00	26.50	10000.0	1000.000	155.0	V	1.0	0.0	-93.5
5263.216433	-42.49	-13.00	29.49	10000.0	1000.000	155.0	V	176.0	0.0	-88.5

(continuation of the "Final_Result" table from column 17 ...)

Frequency (MHz)	Comment
3508.747496	14:37:56 - 02.04.2017
5263.216433	14:43:44 - 02.04.2017

1.9. Spurious emissions radiated (LTE Band 5)**1.9.1. Magnetic field strength radiated (LTE Band 5)****Diagram No. 2.50a_RSE_R_Ch20425_BW_5**

Test description:	Date: 11.04.2017 Page 1 of 2
Test site and distance:	Magnetic Field Strength Measurement related to 30/300 m distance
Version of Testsoftware:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Distance correction:	EMC32 V9.25.0
Technical Data:	used accord. table, pls. see test report
Rec. antenna (pre-scan):	Please see page 2 for detailed data of measurement setup
Used filter:	height 1.00 m, parallel and 90° to EUT polarisation
Test specification:	bypass
	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operator:	MAh RSa
Operating conditions:	LTE Band5 Ch:20425, BW:5MHz, RB: 1 high, QPSK
Power during tests:	12V DC
Comment 1:	EUT laying
EUT Information	
Manufacturer:	peiker acustic GmbH & Co. KG
EUT:	V1231-0

HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum

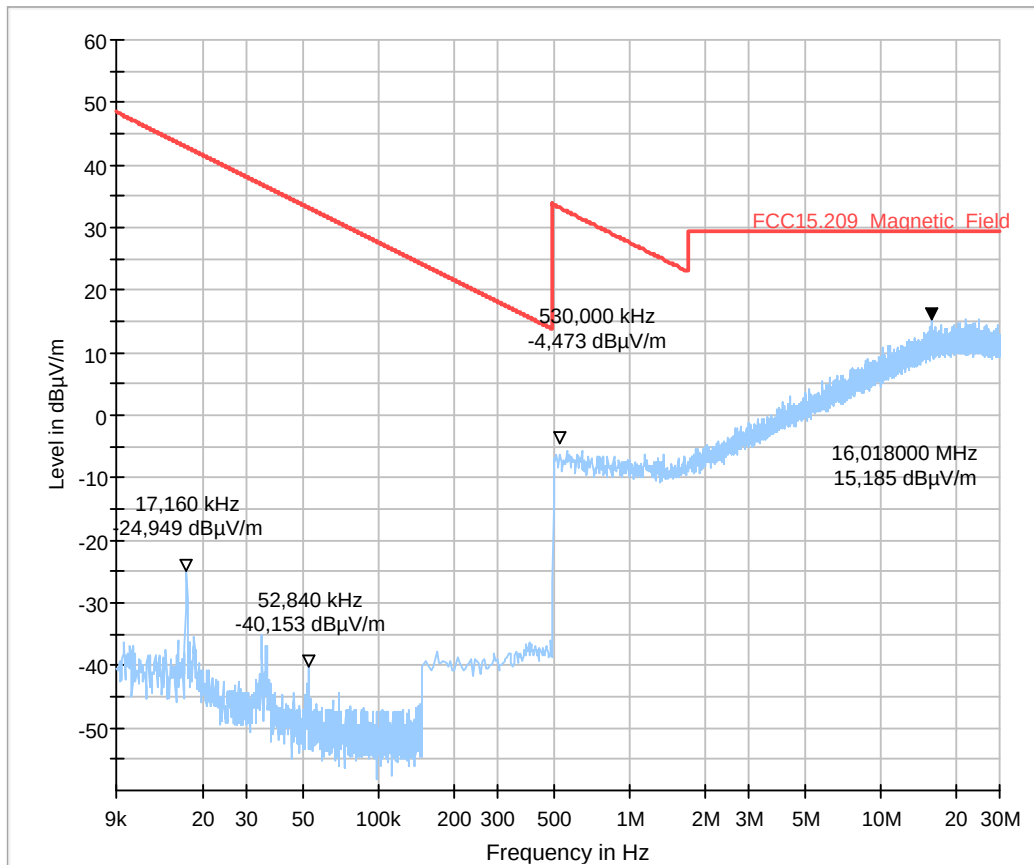


Diagram No. 2.50b_RSE_R_Ch20425_BW_5

Test description:
Test site and distance:
Version of Testsoftware:
Distance correction:
Technical Data:
Rec. antenna (pre-scan):
Used filter:
Test specification:

Date: 10.04.2017 Page 1 of 2
Magnetic Field Strength Measurement related to 30/300 m distance
Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
EMC32 V9.25.0
used accord. table, pls. see test report
Please see page 2 for detailed data of measurement setup
height 1.00 m, parallel and 90° to EUT polarisation
bypass
FCC 15.205 § 15.209; RSS-Gen: Issue 4

Operator:
Operating conditions:
Power during tests:
Comment 1:

Klv
LTE Band5 Ch:20425, BW:5MHz, RB: 1 High, QPSK
12V DC
EUT standing

EUT Information

Manufacturer:
EUT:

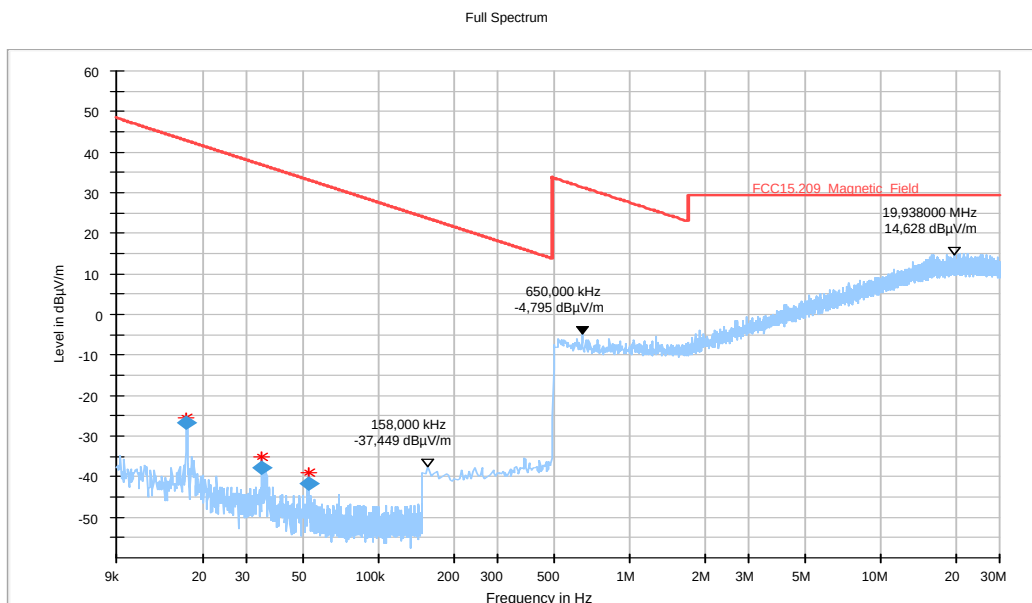
peiker acustic GmbH & Co. KG
V1231-0

HW version:
SW version:
Serial number:
Connected Interfaces:

V1231-0_Ver.1
MPSS.TH.2.0.2-00256
004402580040446
Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna
LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables

Power Supply:
Comments:

12VDC
-



Final_Result

Frequency (MHz)	RMS (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
0.017160	-26.57	42.91	69.47	1000.0	0.200	100.0	V	34.0	-58.7
0.034360	-37.90	36.88	74.77	1000.0	0.200	100.0	V	297.0	-59.5
0.052760	-41.65	33.15	74.81	1000.0	0.200	100.0	V	16.0	-59.7

(continuation of the "Final_Result" table from column 16 ...)

Frequency (MHz)	Comment
0.017160	00:25:31 - 11.04.2017
0.034360	00:18:36 - 11.04.2017
0.052760	00:14:01 - 11.04.2017

Diagram No. 2.51a_RSE_R_Ch20525_BW_5

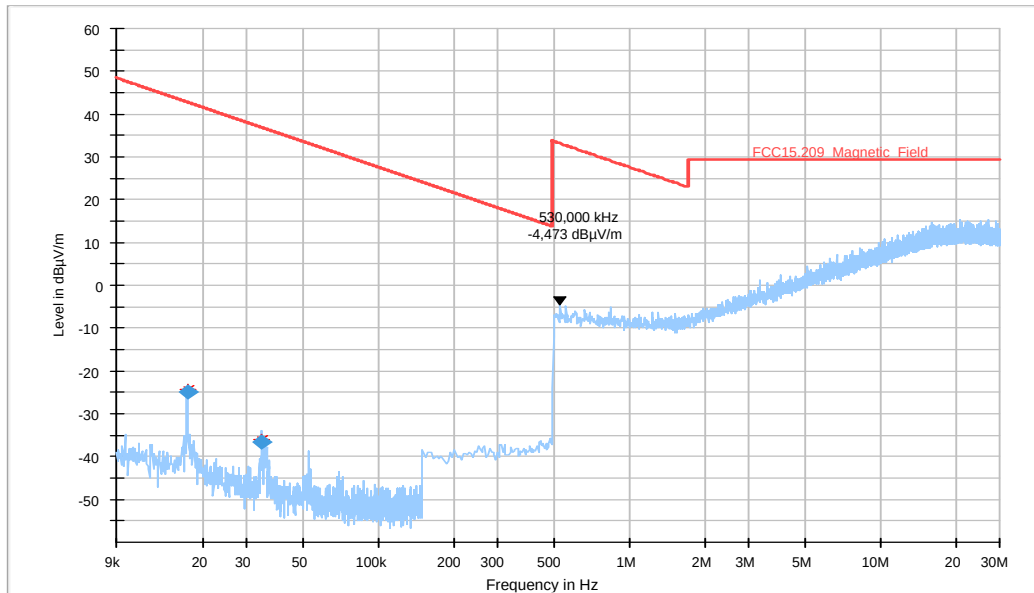
Date: 11.04.2017 Page 1 of 2
 Test description: Magnetic Field Strength Measurement related to 30/300 m distance
 Test site and distance: Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
 Version of Testsoftware: EMC32 V9.25.0
 Distance correction: used accord. table, pls. see test 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: Mah
 Operating conditions: LTE Band5 Ch:20525, BW:5MHz, RB: 1 Low, QPSK
 Power during tests: 12V DC
 Comment 1: EUT laying

EUT Information

Manufacturer: peiker acoustic GmbH & Co. KG
 EUT: V1231-0

 HW version: V1231-0_Ver.1
 SW version: MPSS.TH.2.0.2-00256
 Serial number: 004402580040446
 Connected Interfaces: Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna
 LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
 Power Supply: 12VDC
 Comments: -

Full Spectrum



Final Result

Frequency (MHz)	RMS (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
0.017240	-24.88	42.87	67.74	1000.0	0.200	100.0	V	237.0	-58.7
0.034440	-36.61	36.86	73.46	1000.0	0.200	100.0	V	59.0	-59.5

(continuation of the "Final_Result" table from column 16 ...)

Frequency (MHz)	Comment
0.017240	08:32:48 - 11.04.2017
0.034440	08:38:57 - 11.04.2017

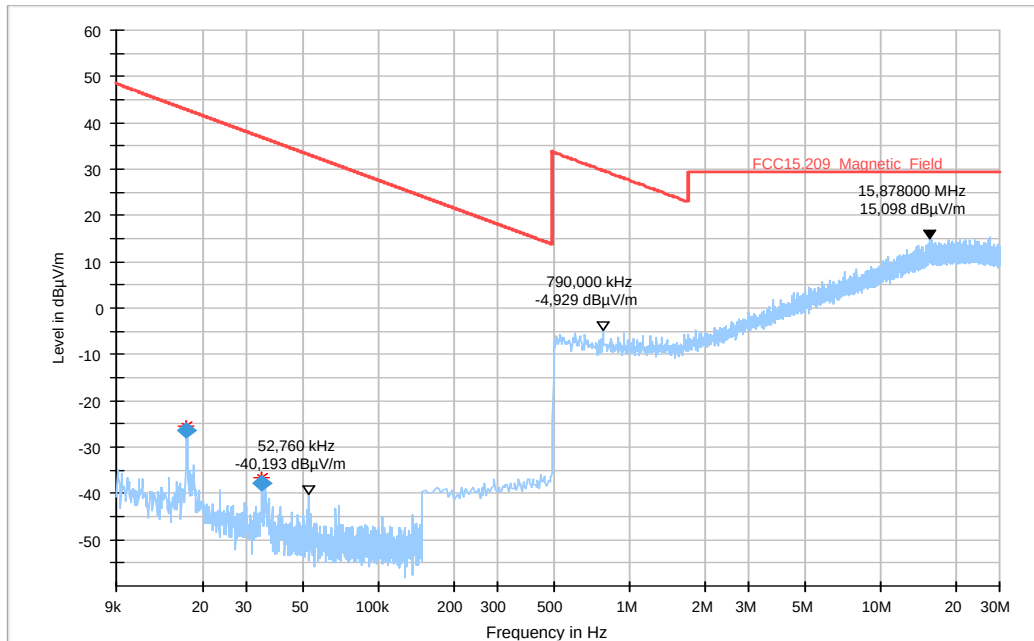
Diagram No. 2.51b_RSE_R_Ch20525_BW_5

Date: 11.04.2017 Page 1 of 2
 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: Klv
 Operating conditions: LTE Band5 Ch:20525, BW:5MHz, RB: 1 Low, QPSK
 Power during tests: 12V DC
 Comment 1: EUT standing

EUT Information

Manufacturer: peiker acoustic GmbH & Co. KG
 EUT: V1231-0
 HW version: V1231-0_Ver.1
 SW version: MPSS.TH.2.0.2-00256
 Serial number: 004402580040446
 Connected Interfaces: Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
 Power Supply: 12VDC
 Comments: -

Full Spectrum



Final Result

Frequency (MHz)	RMS (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
0.017160	-26.46	42.91	69.36	1000.0	0.200	100.0	V	54.0	-58.7
0.034360	-37.80	36.88	74.67	1000.0	0.200	100.0	V	165.0	-59.5

(continuation of the "Final_Result" table from column 16 ...)

Frequency (MHz)	Comment
0.017160	01:04:40 - 11.04.2017
0.034360	00:58:45 - 11.04.2017

Diagram No. 2.52a_RSE_R_Ch20643_BW_1_4

Test description:	Date: 11.04.2017 Page 1 of 2
Test site and distance:	Magnetic Field Strength Measurement related to 30/300 m distance
Version of Testsoftware:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Distance correction:	EMC32 V9.25.0
Technical Data:	used accord. table, pls. see test report
Rec. antenna (pre-scan):	Please see page 2 for detailed data of measurement setup
Used filter:	height 1.00 m, parallel and 90° to EUT polarisation
Test specification:	bypass
	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operator:	Kiv
Operating conditions:	LTE Band5 Ch:20643, BW:1.4MHz, RB: 1 High, QPSK
Power during tests:	12V DC
Comment 1:	EUT laying

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1231-0

HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum

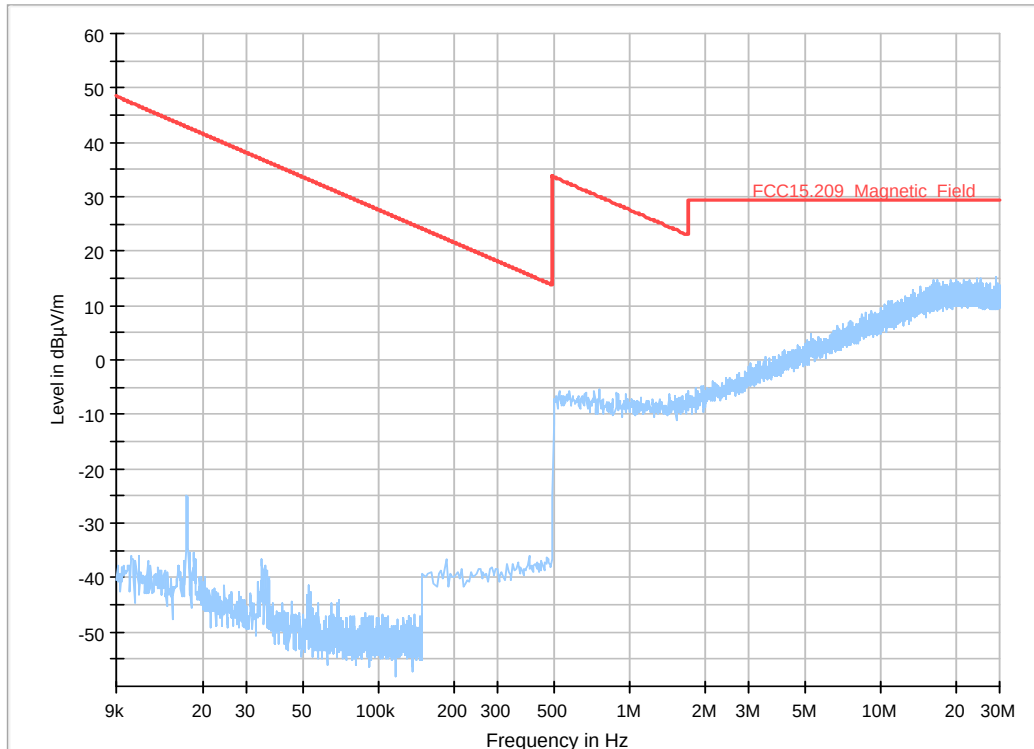


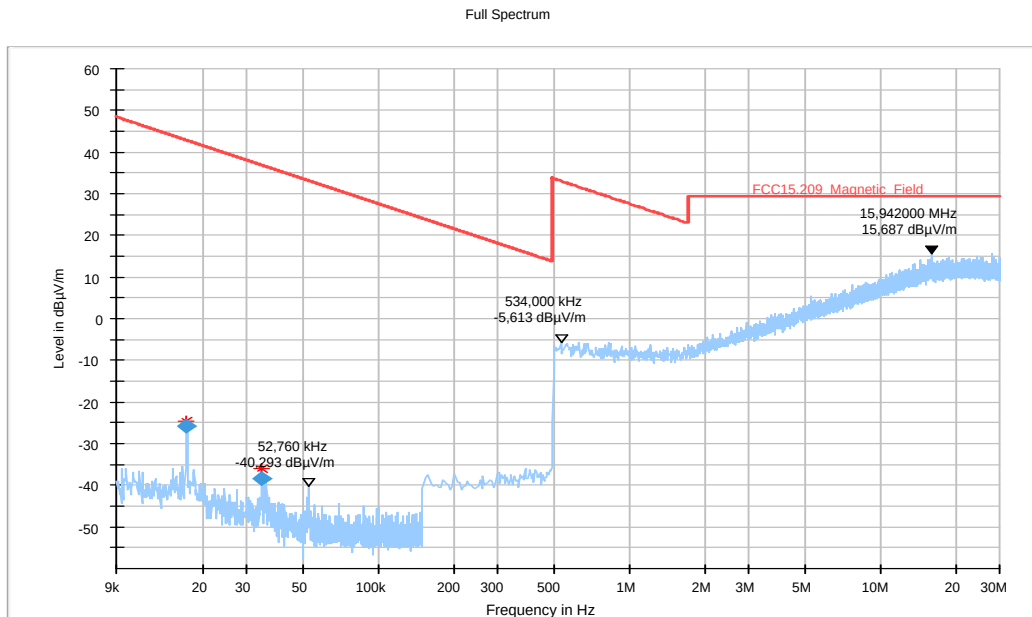
Diagram No. 2.52b_RSE_R_Ch20643_BW_1_4

Date: 11.04.2017 Page 1 of 2
 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: Klv
 Operating conditions: LTE Band5 Ch:20643, BW:1.4MHz, RB: 1 High, QPSK
 Power during tests: 12V DC
 Comment 1: EUT standing

EUT Information

Manufacturer: peiker acustic GmbH & Co. KG
 EUT: V1231-0

 HW version: V1231-0_Ver.1
 SW version: MPSS.TH.2.0.2-00256
 Serial number: 004402580040446
 Connected Interfaces: Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
 Power Supply: 12VDC
 Comments: -



Final Result

Frequency (MHz)	RMS (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
0.017160	-25.71	42.91	68.61	1000.0	0.200	100.0	V	107.0	-58.7
0.034280	-38.49	36.90	75.38	1000.0	0.200	100.0	V	156.0	-59.5

(continuation of the "Final_Result" table from column 16 ...)

Frequency (MHz)	Comment
0.017160	01:42:33 - 11.04.2017
0.034280	01:46:35 - 11.04.2017

1.9.2. Emissions above 30MHz (LTE Band 5)

8.50a_RSE_R_Ch20425_BW_5_Standing

Common Information

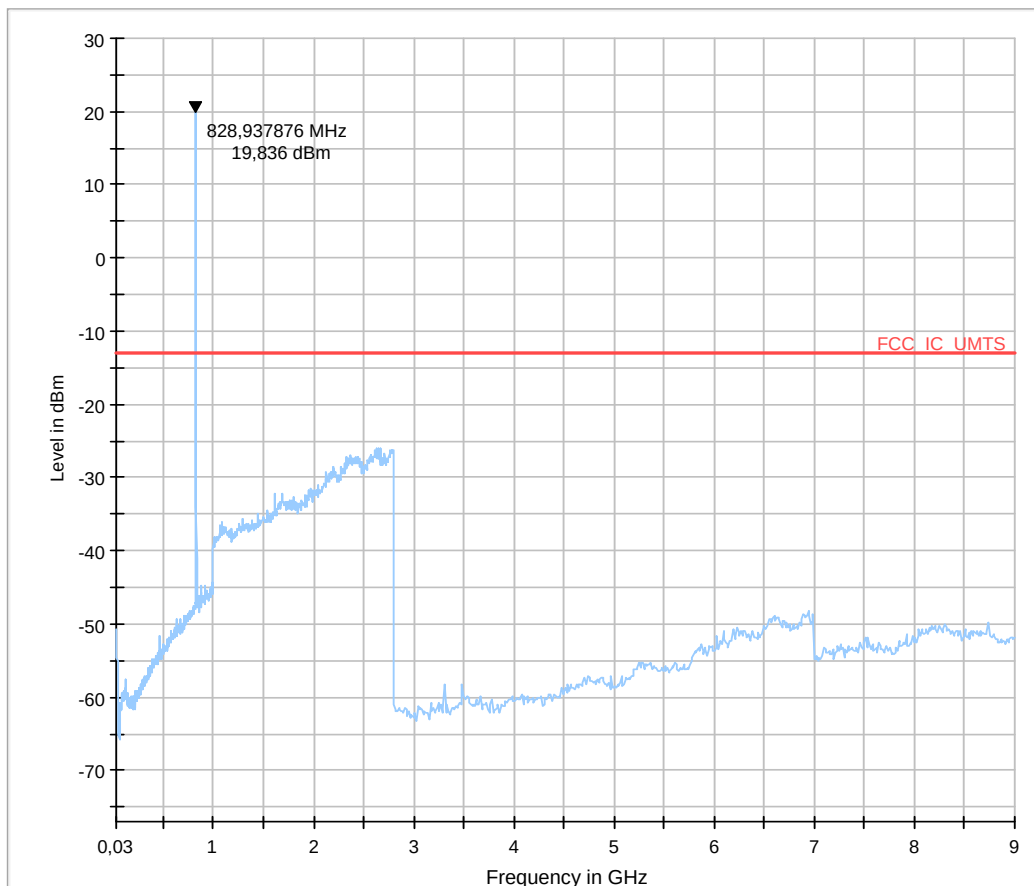
Test Description:	Radiated Spurious Emissions LTE Band 5
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22
Operating Mode:	UE allocated channel 20425/ BW:5 / RB:1 / Position:standing
Environmental Conditions:	Humidity: 35%rH; Temperature: 20°C
Operator:	RIs
Remarks:	EUT - standing position

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1231-0

HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



8.50b_RSE_R_Ch20425_BW_5_Laying

Common Information

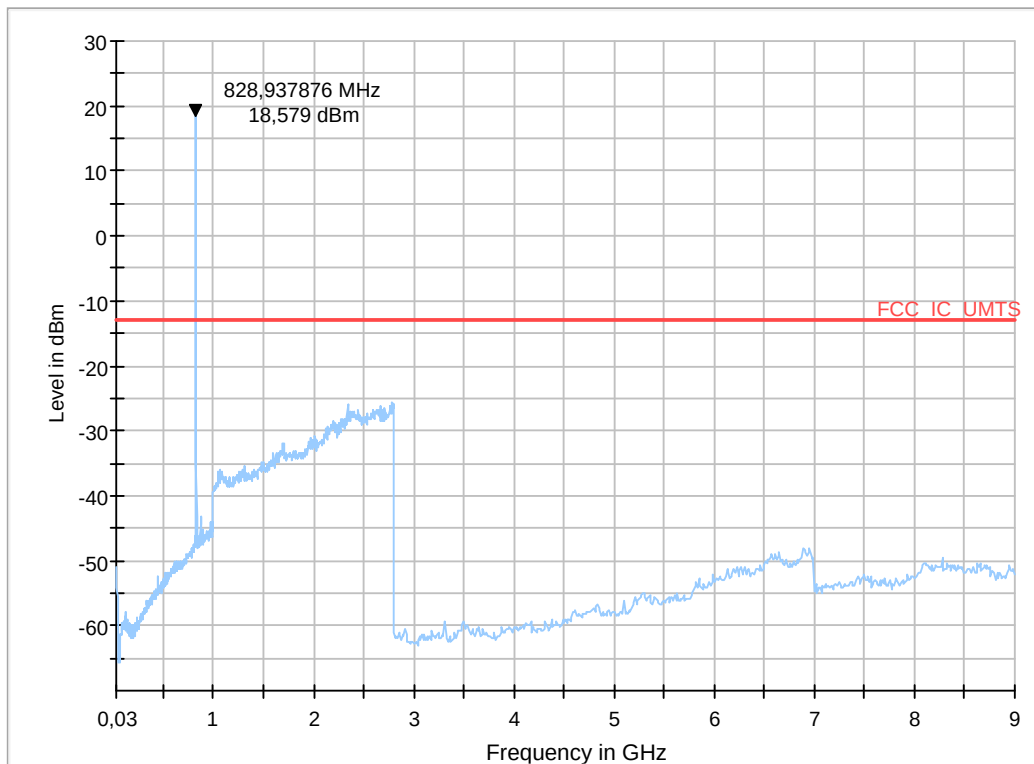
Test Description:	Radiated Spurious Emissions LTE Band 5
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22
Operating Mode:	UE allocated channel 20425/BW:5/RB:1 high/QPSK
Environmental Conditions:	Humidity: 49%rH; Temperature: 21°C
Operator:	SLo
Comment:	EUT - laying position

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1231-0

HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



8.51a_RSE_R_Ch20525_BW5_Standing

Common Information

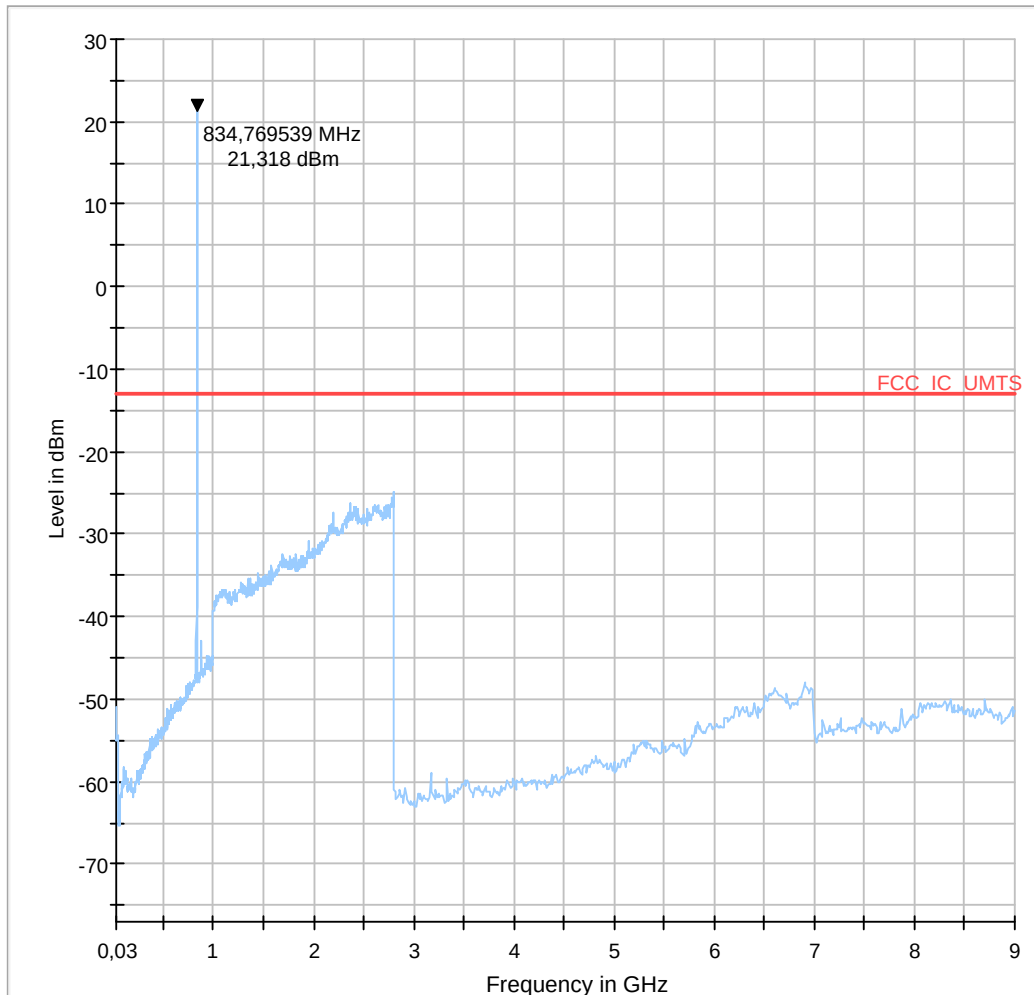
Test Description:	Radiated Spurious Emissions LTE Band 5
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22
Operating Mode:	UE allocated channel 20525/ BW:5 / RB:1
Environmental Conditions:	Humidity: 35%rH; Temperature: 20°C
Operator:	RLS
Remarks:	EUT - standing position

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1231-0

HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



8.51b_RSE_R_Ch20525_BW5_Laying

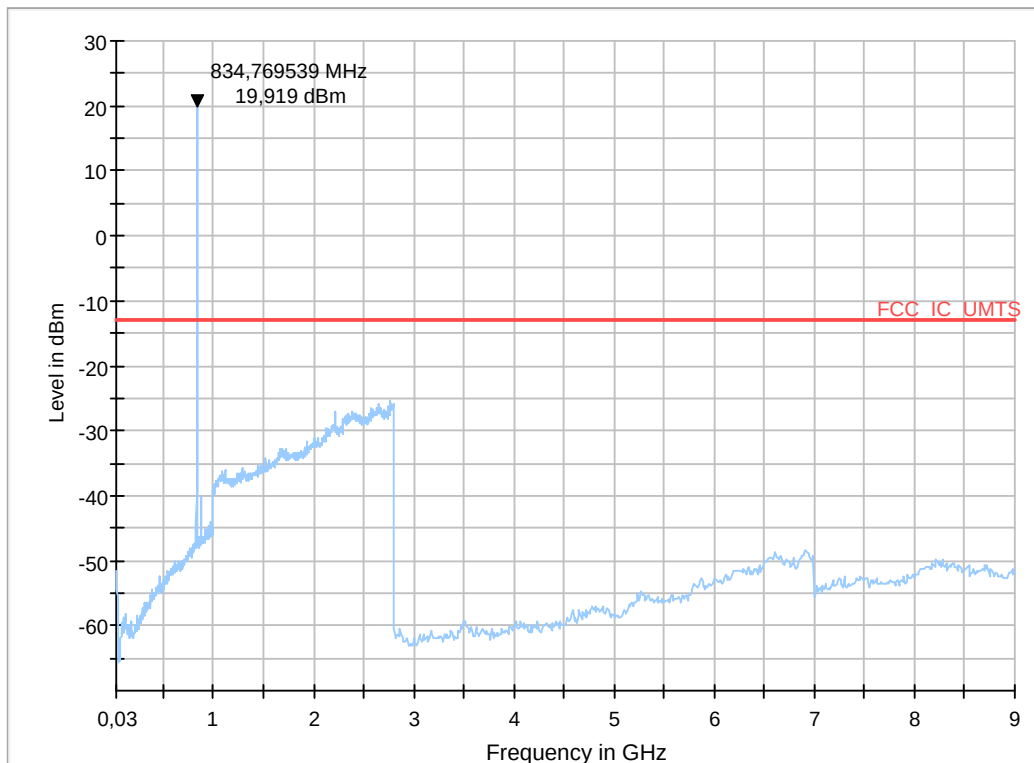
Common Information

Test Description:	Radiated Spurious Emissions LTE Band 5
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22
Operating Mode:	UE allocated channel 20525/BW:5/RB:1 low/QPSK
Environmental Conditions:	Humidity: 49%rH; Temperature: 21°C
Operator:	SLo
Comment:	EUT - laying position

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1231-0
-----	-----
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



8.52a_RSE_R_Ch20643_BW1_4_Standing

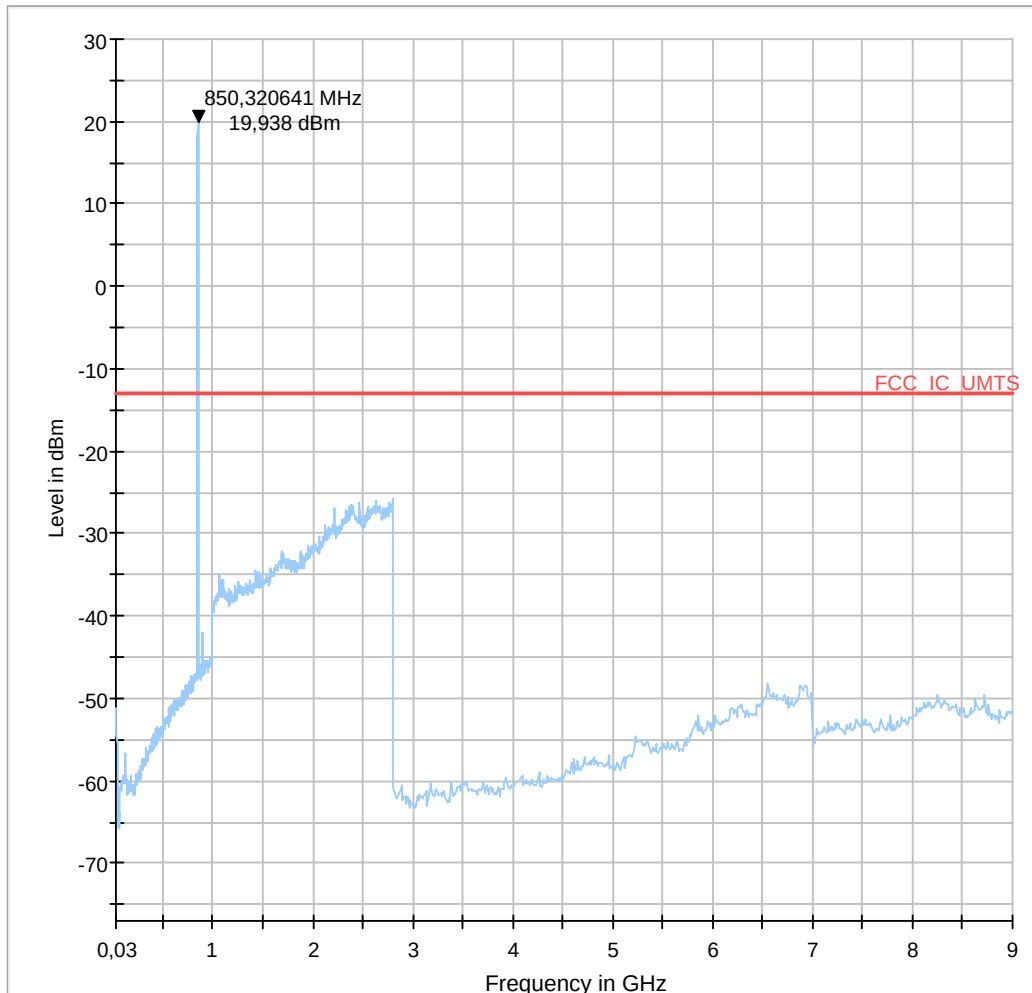
Common Information

Test Description:	Radiated Spurious Emissions LTE Band 5
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22
Operating Mode:	UE allocated channel 20643/ BW:1,4 / RB:1 / Position:standing
Environmental Conditions:	Humidity: 35%rH; Temperature: 20°C
Operator:	RLs
Remarks:	EUT - standing position

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1231-0
-----	-----
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



8.52b_RSE_R_Ch20643_BW1_4_Laying

Common Information

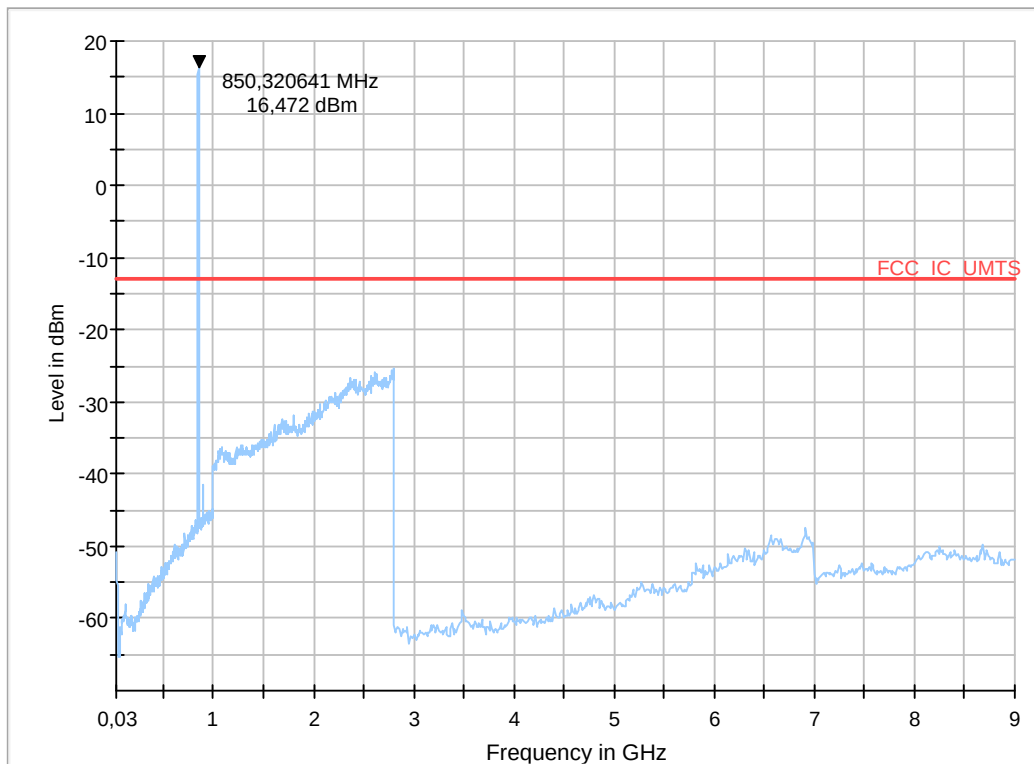
Test Description:	Radiated Spurious Emissions LTE Band 5
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22
Operating Mode:	UE allocated channel 20643/BW:1,4/RB:1 high/QPSK
Environmental Conditions:	Humidity: 49%rH; Temperature: 21°C
Operator:	SLo
Comment:	EUT - laying position

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1231-0

HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



1.10. Spurious emissions radiated (LTE Band 12)

1.10.1. Magnetic field strength radiated (LTE Band 12)

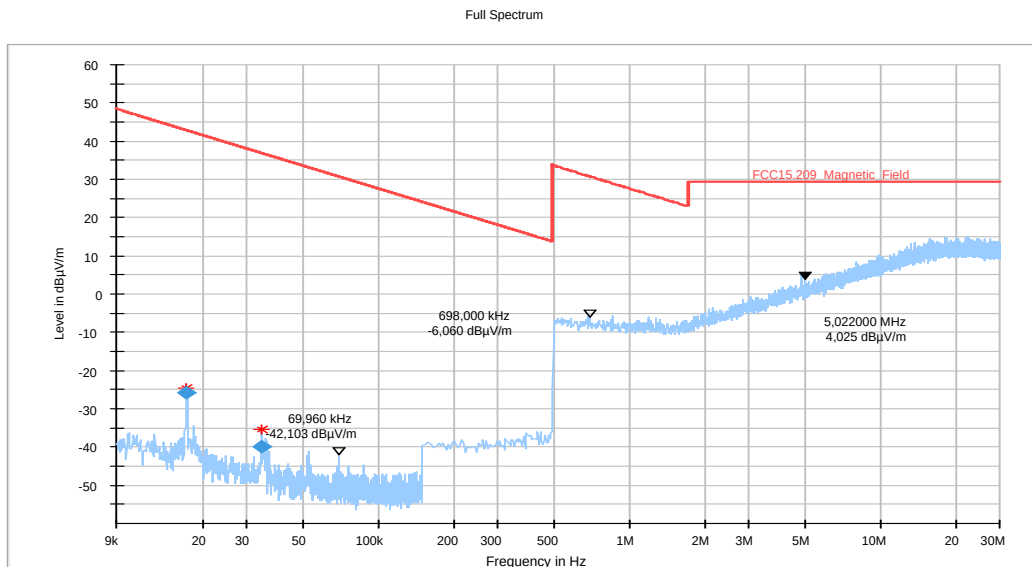
Diagram No. 2.53a_RSE_R_Ch23035_BW_5

Date: 11.04.2017 Page 1 of 2
 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: Kiv
 Operating conditions: LTE Band12 Ch:23035, BW:5MHz, RB: 1 High, QPSK
 Power during tests: 12V DC
 Comment 1: EUT laying

EUT Information

Manufacturer: peiker acoustic GmbH & Co. KG
 EUT: V1231-0

 HW version: V1231-0_Ver.1
 SW version: MPSS.TH.2.0.2-00256
 Serial number: 004402580040446
 Connected Interfaces: Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
 Power Supply: 12VDC
 Comments: -



Final Result

Frequency (MHz)	RMS (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
0.017160	-25.87	42.91	68.77	1000.0	0.200	100.0	V	160.0	-58.7
0.034360	-39.86	36.88	76.73	1000.0	0.200	100.0	V	137.0	-59.5

(continuation of the "Final_Result" table from column 16 ...)

Frequency (MHz)	Comment
0.017160	06:31:11 - 11.04.2017
0.034360	06:36:15 - 11.04.2017

Diagram No. 2.53b_RSE_R_Ch23035_BW_5

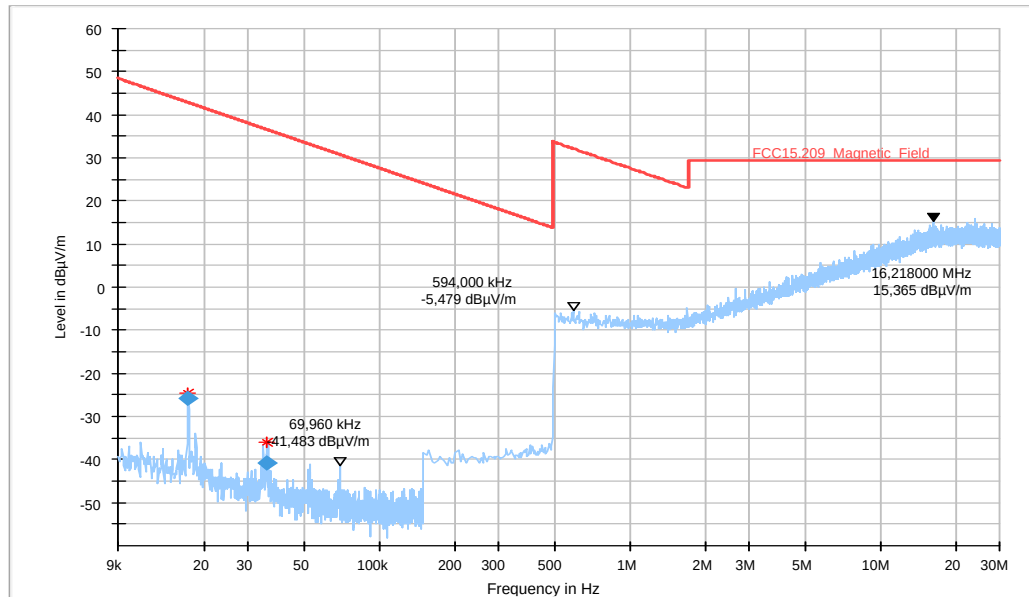
Date: 11.04.2017 Page 1 of 2
 Test description: Magnetic Field Strength Measurement related to 30/300 m distance
 Test site and distance: Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
 Version of Testsoftware: EMC32 V9.25.0
 Distance correction: used accord. table, pls. see test 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: Klv
 Operating conditions: LTE Band12 Ch:23035, BW:5MHz, RB: 1 High, QPSK
 Power during tests: 12V DC
 Comment 1: EUT standing

EUT Information

Manufacturer: peiker acoustic GmbH & Co. KG
 EUT: V1231-0

 HW version: V1231-0_Ver.1
 SW version: MPSS.TH.2.0.2-00256
 Serial number: 004402580040446
 Connected Interfaces: Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
 Power Supply: 12VDC
 Comments: -

Full Spectrum



Final Result

Frequency (MHz)	RMS (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
0.017160	-25.76	42.91	68.66	1000.0	0.200	100.0	V	313.0	-58.7
0.035640	-40.79	36.56	77.35	1000.0	0.200	100.0	V	214.0	-59.5

(continuation of the "Final_Result" table from column 16 ...)

Frequency (MHz)	Comment
0.017160	02:27:51 - 11.04.2017
0.035640	02:23:15 - 11.04.2017

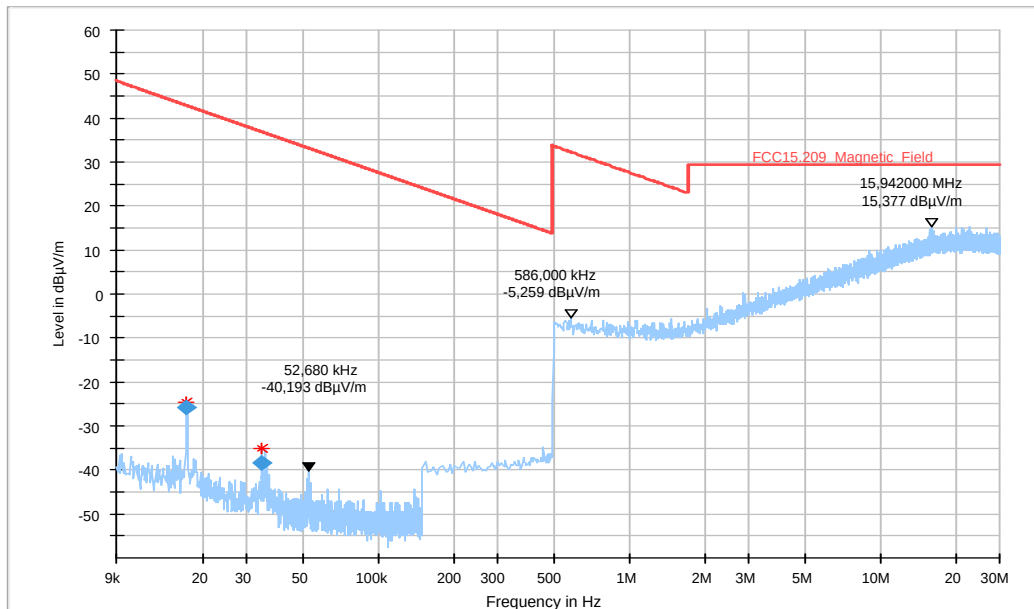
Diagram No. 2.54a_RSE_R_Ch23095_BW_10

Date: 11.04.2017 Page 1 of 2
 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: Klv
 Operating conditions: LTE Band12 Ch:23095, BW:10MHz, RB: 1 Low, QPSK
 Power during tests: 12V DC
 Comment 1: EUT laying

EUT Information

Manufacturer: peiker acoustic GmbH & Co. KG
 EUT: V1231-0
 HW version: V1231-0_Ver.1
 SW version: MPSS.TH.2.0.2-00256
 Serial number: 004402580040446
 Connected Interfaces: Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
 Power Supply: 12VDC
 Comments: -

Full Spectrum



Final Result

Frequency (MHz)	RMS (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
0.017160	-25.81	42.91	68.71	1000.0	0.200	100.0	V	35.0	-58.7
0.034440	-38.44	36.86	75.29	1000.0	0.200	100.0	V	150.0	-59.5

(continuation of the "Final_Result" table from column 16 ...)

Frequency (MHz)	Comment
0.017160	05:50:07 - 11.04.2017

0.034440	05:55:11 - 11.04.2017
----------	-----------------------

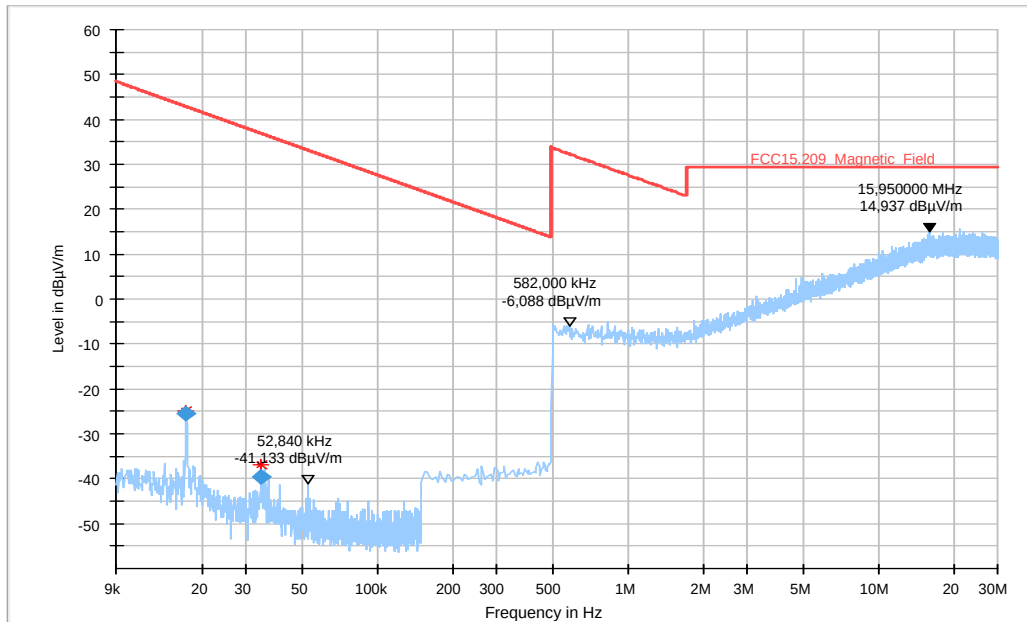
Diagram No. 2.54b_RSE_R_Ch23095_BW_10

Date: 11.04.2017 Page 1 of 2
 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: Klv
 Operating conditions: LTE Band12 Ch:23095, BW:10MHz, RB: 1 Low, QPSK
 Power during tests: 12V DC
 Comment 1: EUT standing

EUT Information

Manufacturer: peiker acoustic GmbH & Co. KG
 EUT: V1231-0
 HW version: V1231-0_Ver.1
 SW version: MPSS.TH.2.0.2-00256
 Serial number: 004402580040446
 Connected Interfaces: Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
 Power Supply: 12VDC
 Comments: -

Full Spectrum



Final Result

Frequency (MHz)	RMS (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
0.017160	-25.51	42.91	68.41	1000.0	0.200	100.0	V	173.0	-58.7
0.034280	-39.51	36.90	76.40	1000.0	0.200	100.0	V	175.0	-59.5

(continuation of the "Final_Result" table from column 16 ...)

Frequency (MHz)	Comment
0.017160	03:06:09 - 11.04.2017
0.034280	03:01:12 - 11.04.2017

Diagram No. 2.55a_RSE_R_Ch23173_BW_1_4

Date: 11.04.2017 Page 1 of 2

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: Klv

Operating conditions: LTE Band12 Ch:23173, BW:1.4MHz, RB: 1 Low, QPSK

Power during tests: 12V DC

Comment 1: EUT laying

EUT Information

Manufacturer: peiker acoustic GmbH & Co. KG

EUT: V1231-0

HW version: V1231-0_Ver.1

SW version: MPSS.TH.2.0.2-00256

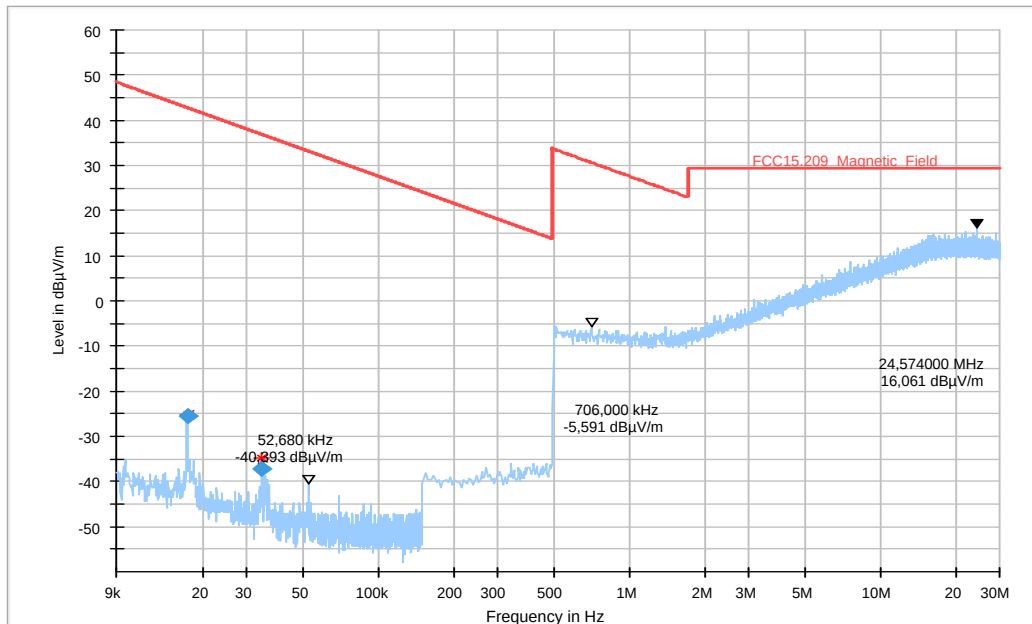
Serial number: 004402580040446

Connected Interfaces: Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables

Power Supply: 12VDC

Comments: -

Full Spectrum



Final Result

Frequency (MHz)	RMS (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
0.017240	-25.37	42.87	68.23	1000.0	0.200	100.0	V	-8.0	-58.7
0.034440	-37.35	36.86	74.20	1000.0	0.200	100.0	V	34.0	-59.5

(continuation of the "Final_Result" table from column 16 ...)

Frequency (MHz)	Comment
-----------------	---------

0.017240	05:09:10 - 11.04.2017
0.034440	05:15:31 - 11.04.2017

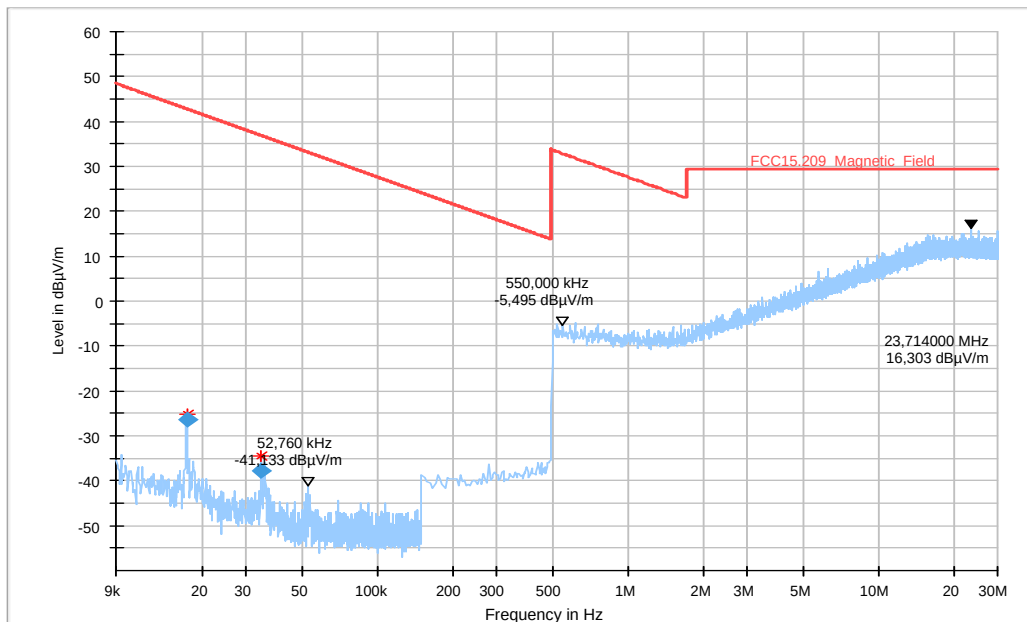
Diagram No. 2.55b_RSE_R_Ch23173_BW_1_4

Date: 11.04.2017 Page 1 of 2
 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: Klv
 Operating conditions: LTE Band12 Ch:23173, BW:1.4MHz, RB: 1 Low, QPSK
 Power during tests: 12V DC
 Comment 1: EUT standing

EUT Information

Manufacturer: peiker acoustic GmbH & Co. KG
 EUT: V1231-0
 HW version: V1231-0_Ver.1
 SW version: MPSS.TH.2.0.2-00256
 Serial number: 004402580040446
 Connected Interfaces: Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
 Power Supply: 12VDC
 Comments: -

Full Spectrum



Final Result

Frequency (MHz)	RMS (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
0.017240	-26.36	42.87	69.22	1000.0	0.200	100.0	V	253.0	-58.7
0.034360	-37.90	36.88	74.77	1000.0	0.200	100.0	V	143.0	-59.5

(continuation of the "Final_Result" table from column 16 ...)

Frequency (MHz)	Comment
0.017240	03:46:09 - 11.04.2017
0.034360	03:41:35 - 11.04.2017

1.10.2. Emissions above 30MHz (LTE Band 12)

8.53_RSE_R_Ch23035_BW5_Laying

Common Information

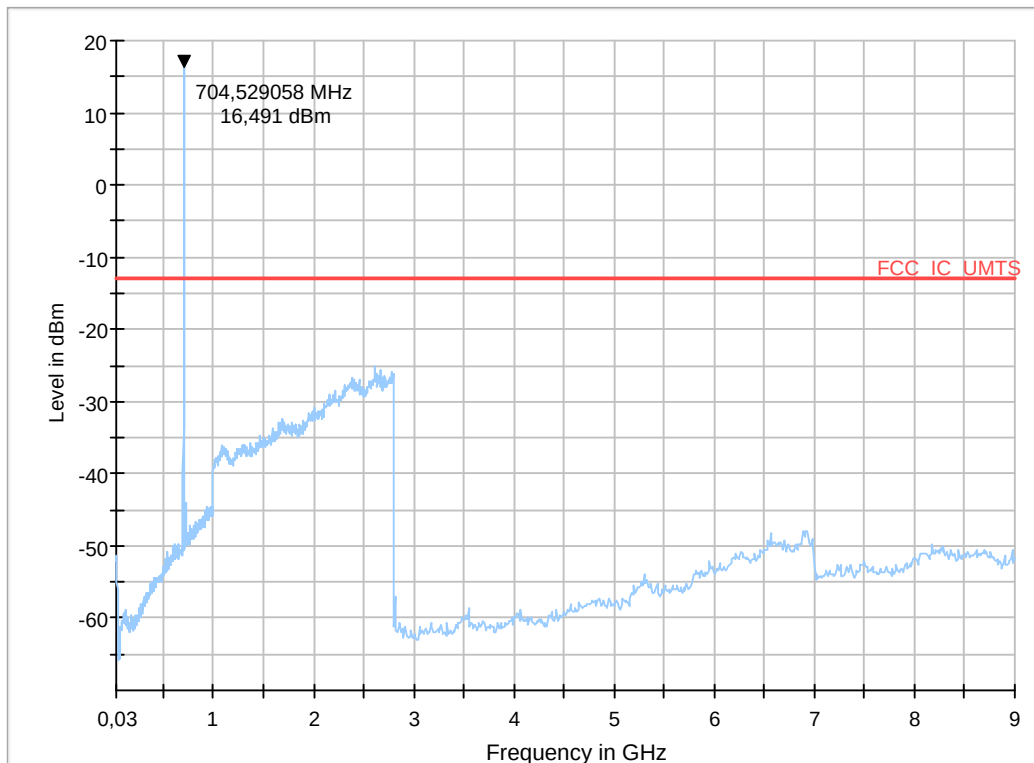
Test Description:	Radiated Spurious Emissions LTE Band 12
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22
Operating Mode:	UE allocated channel 23035/BW:5RB:1 high/QPSK
Environmental Conditions:	Humidity: 49%rH; Temperature: 21°C
Operator:	Klv
Comment:	EUT - laying position

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1231-0

HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



8.53_RSE_R_Ch23035_BW5_Standing

Common Information

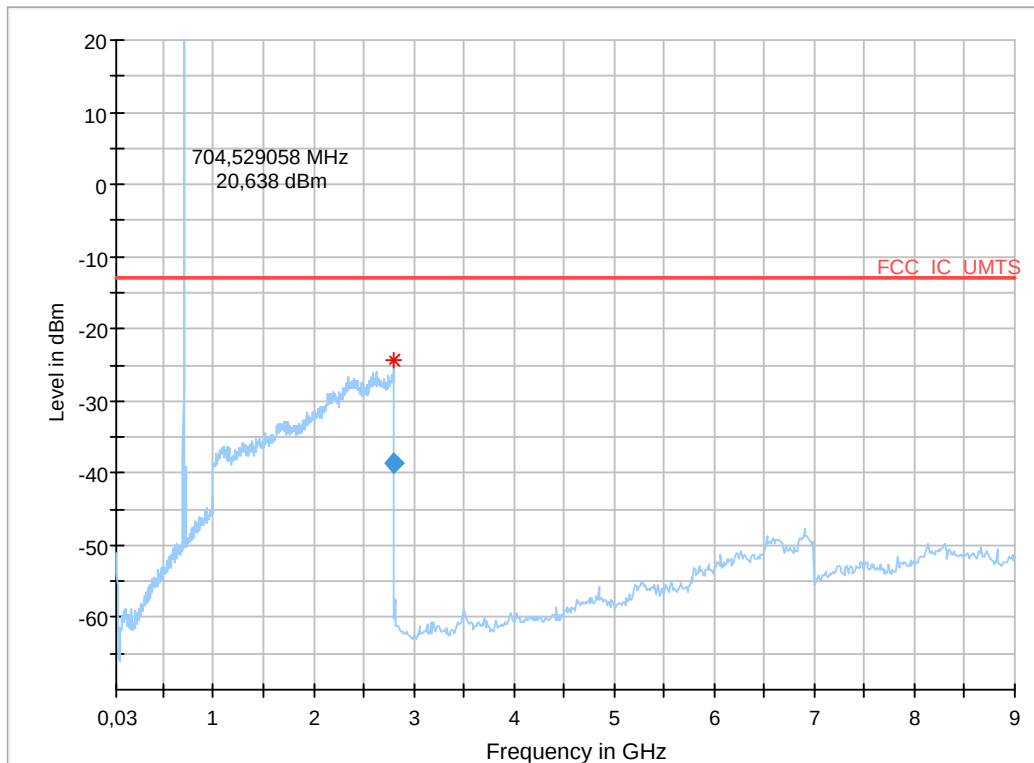
Test Description: Radiated Spurious Emissions LTE Band 12
 Test Site Location: CETECOM GmbH Essen
 Test Site: Fully Anechoic Room (FAR)
 Test Standard: FCC Part 22
 Operating Mode: UE allocated channel 23035/BW:5RB:1 high/QPSK
 Environmental Conditions: Humidity: 49%rH; Temperature: 21°C
 Operator: Klv
 Comment: EUT - standing position

EUT Information

Manufacturer: peiker acoustic GmbH & Co. KG
 EUT: V1231-0

 HW version: V1231-0_Ver.1
 SW version: MPSS.TH.2.0.2-00256
 Serial number: 004402580040446
 Connected Interfaces: Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
 Power Supply: 12VDC
 Comments: -

Full Spectrum



Final Result

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
2797.429910	-38.71	-13.00	25.71	1000.0	100.000	H	53.0	0.0	-57.1

8.54_RSE_R_Ch23095_BW10_Laying

Common Information

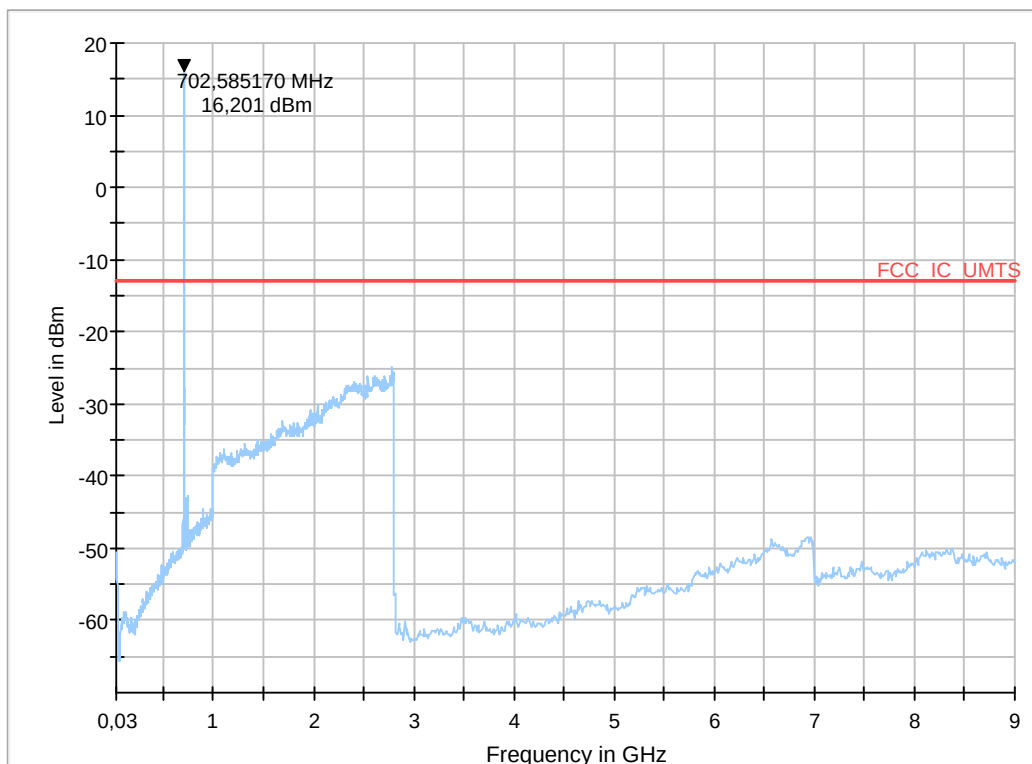
Test Description:	Radiated Spurious Emissions LTE Band 12
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22
Operating Mode:	UE allocated channel 23095/BW:10RB:1 low/QPSK
Environmental Conditions:	Humidity: 49%rH; Temperature: 21°C
Operator:	Kiv
Comment:	EUT - laying position

EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG
EUT:	V1231-0

HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



8.54_RSE_R_Ch23095_BW10_Standing

Common Information

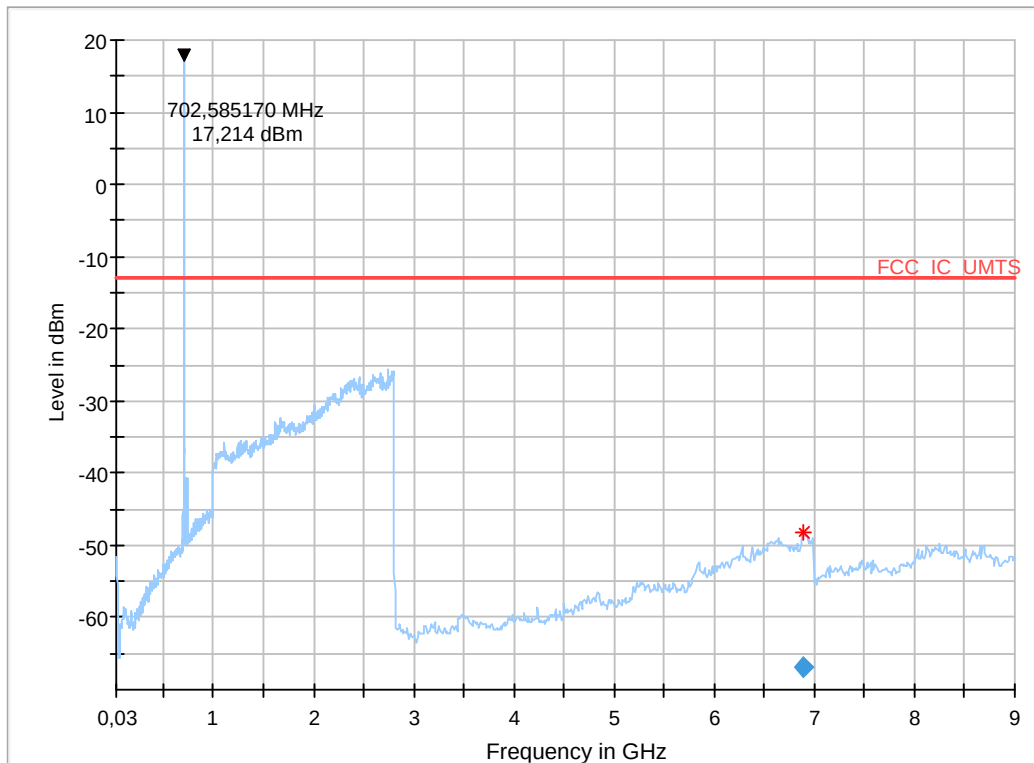
Test Description:	Radiated Spurious Emissions LTE Band 12
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22
Operating Mode:	UE allocated channel 23095/BW:10RB:1 low/QPSK
Environmental Conditions:	Humidity: 49%rH; Temperature: 21°C
Operator:	Klv
Comment:	EUT - standing position

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1231-0

HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



8.54_RSE_R_Ch23095_BW10_Laying

Common Information

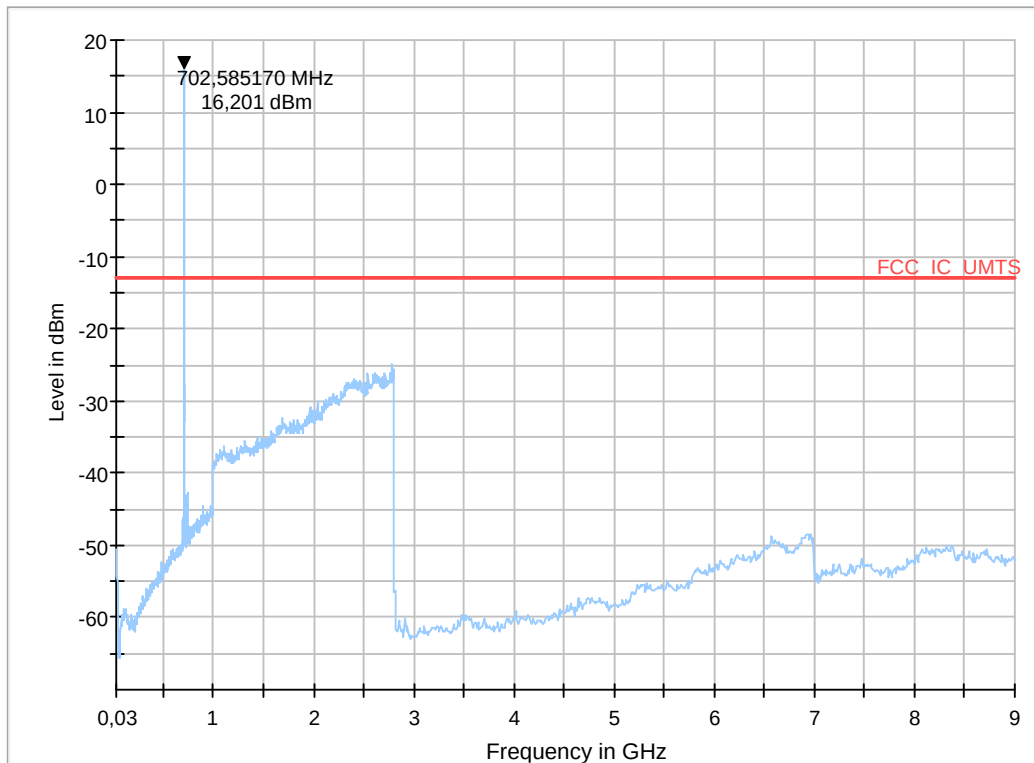
Test Description:	Radiated Spurious Emissions LTE Band 12
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22
Operating Mode:	UE allocated channel 23095/BW:10RB:1 low/QPSK
Environmental Conditions:	Humidity: 49%rH; Temperature: 21°C
Operator:	Klv
Comment:	EUT - laying position

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1231-0

HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



8.56a_Ch23173_BW_1_4MHz_1RB_low_QPSK_Laying

Common Information

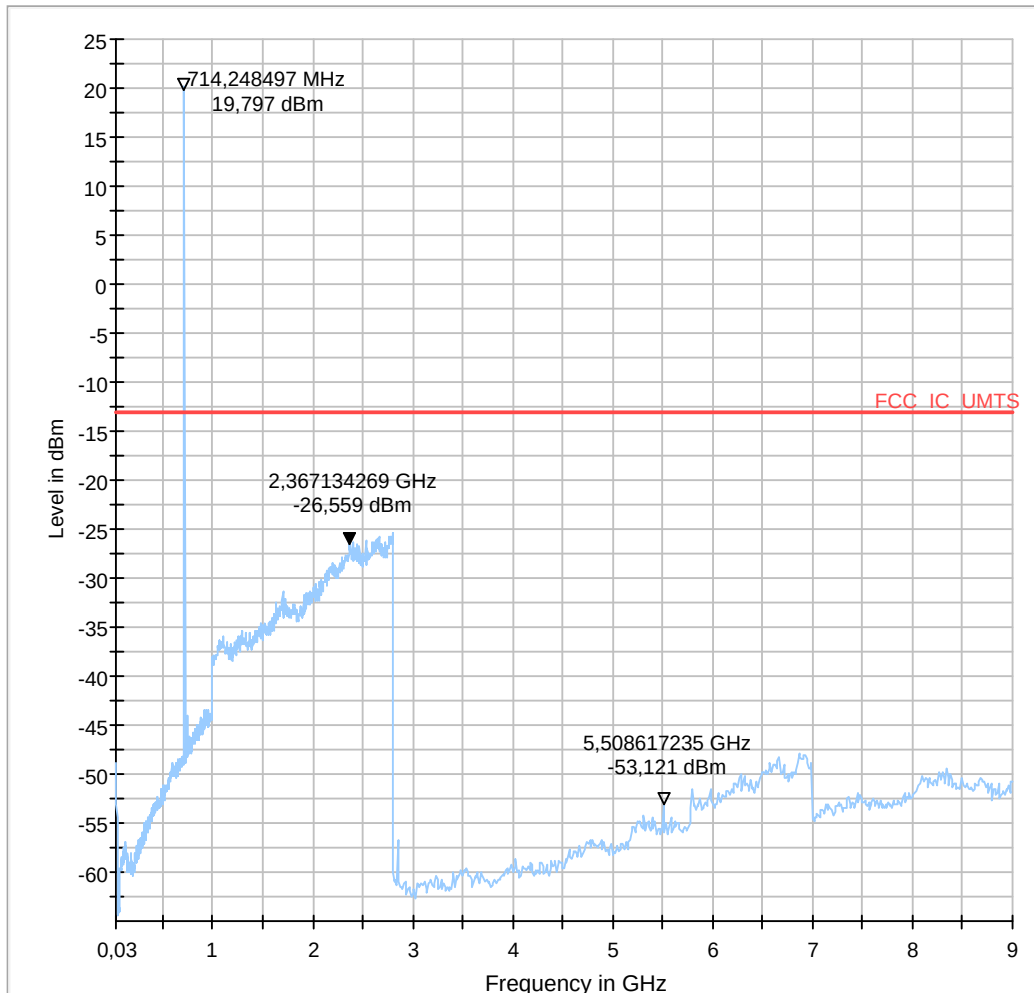
Test Description:	Radiated Spurious Emissions LTE Band 12
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917 / RSS-130
Operating Mode:	UE allocated channel 23173
Environmental Conditions:	Humidity: 49%rH; Temperature: 20.2°C
Operator:	Lor
Remark:	EUT laying

EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG
EUT:	V1231-0

HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



8.56b_Ch23173_BW_1_4MHz_1RB_low_QPSK_standing

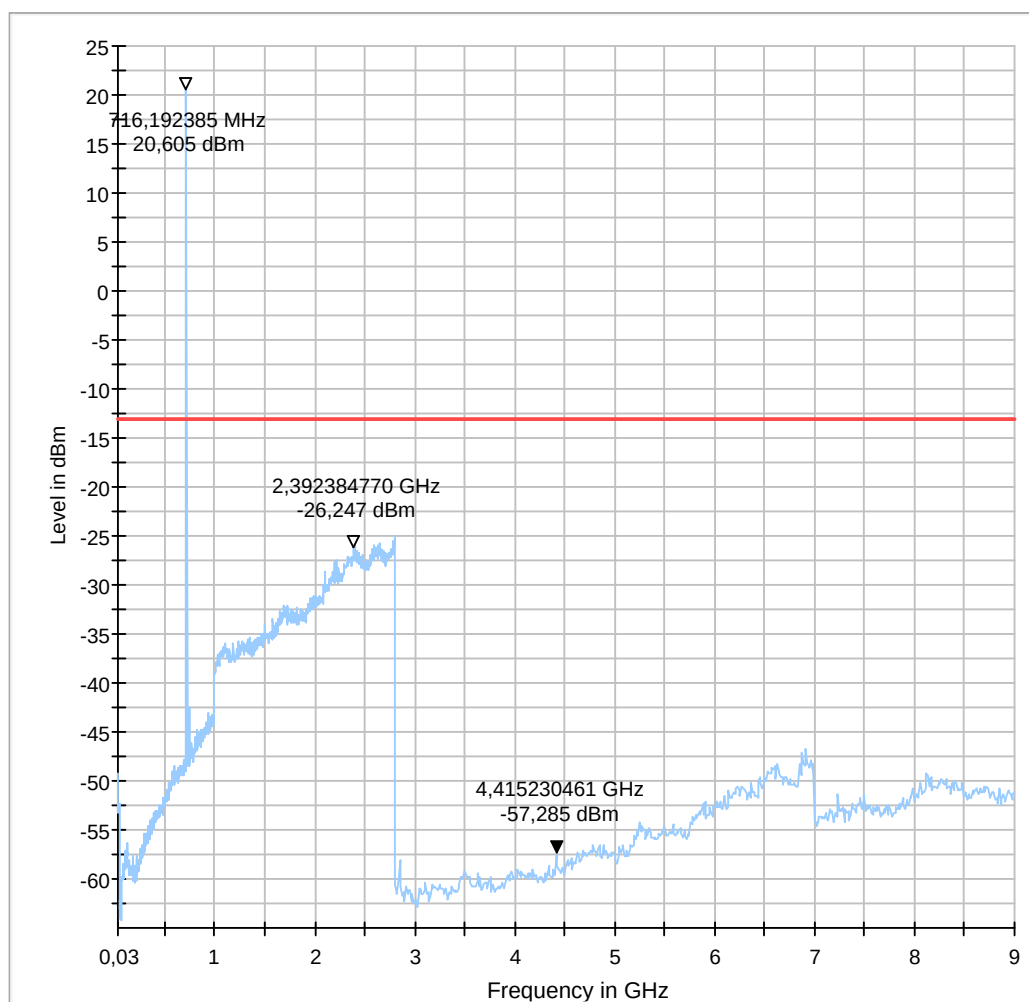
Common Information

Test Description:	Radiated Spurious Emissions LTE Band 12
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917 / RSS-130
Operating Mode:	UE allocated channel 23173/ QPSK / 1RB Low/ BW=1.4MHz
Environmental Conditions:	Humidity: 49%rH; Temperature: 20.2°C
Operator:	Lor
	EUTstanding

EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG
EUT:	V1231-0
-----	-----
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



1.11. Spurious emissions radiated (LTE Band 7)

1.11.1. Magnetic field strength radiated (LTE Band 7)

Diagram No. 2.56a_RSE_R_Ch20850_BW_20_Laying

Test description:	Date: 04.05.2017 Page 1 of 2
Test site and distance:	Magnetic Field Strength Measurement related to 30/300 m distance
Version of Testsoftware:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Distance correction:	EMC32 V9.25.0
Technical Data:	used accord. table, pls. see test report
Rec. antenna (pre-scan):	Please see page 2 for detailed data of measurement setup
Used filter:	height 1.00 m, parallel and 90° to EUT polarisation
Test specification:	bypass
Operator:	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operating conditions:	MBe
Power during tests:	LTE Band7 Ch:20850, BW:20MHz, RB: 1 high, QPSK
Comment 1:	12V DC
	EUT laying

EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG
EUT:	V1231-0

HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum

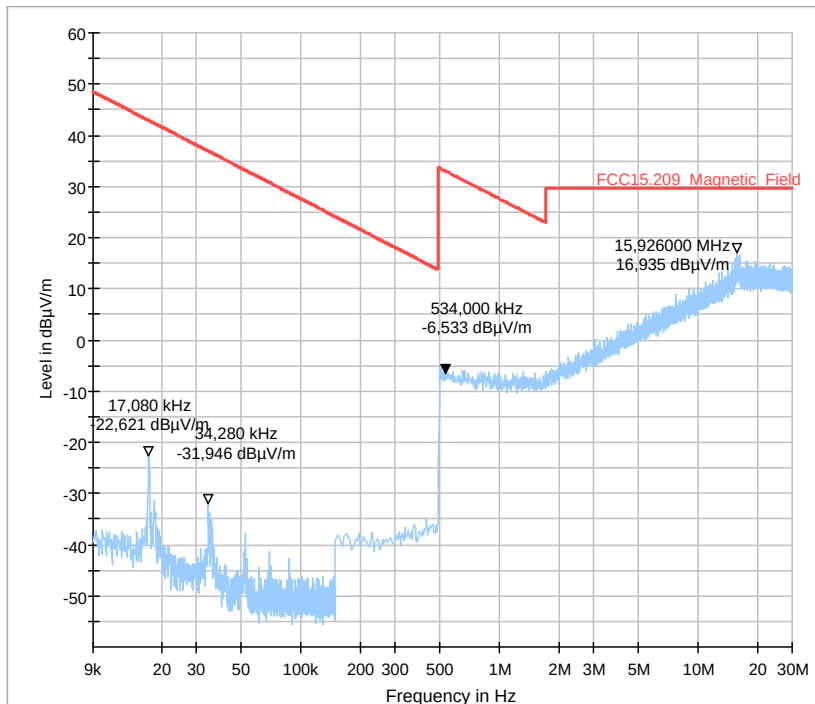


Diagram No. 2.56b_RSE_R_Ch20850_BW_20_Standing

Test description:	Date: 04.05.2017 Page 1 of 1
Test site and distance:	Magnetic Field Strength Measurement related to 30/300 m distance
Version of Testsoftware:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Distance correction:	EMC32 V9.25.0
Technical Data:	used accord. table, pls. see test report
Rec. antenna (pre-scan):	Please see page 2 for detailed data of measurement setup
Used filter:	height 1.00 m, parallel and 90° to EUT polarisation
Test specification:	bypass
Operator:	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operating conditions:	Mah
Power during tests:	LTE Band7 Ch:20850, BW:20MHz, RB: 1 high, QPSK
Comment 1:	12V DC
	EUT standing

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1231-0

HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum

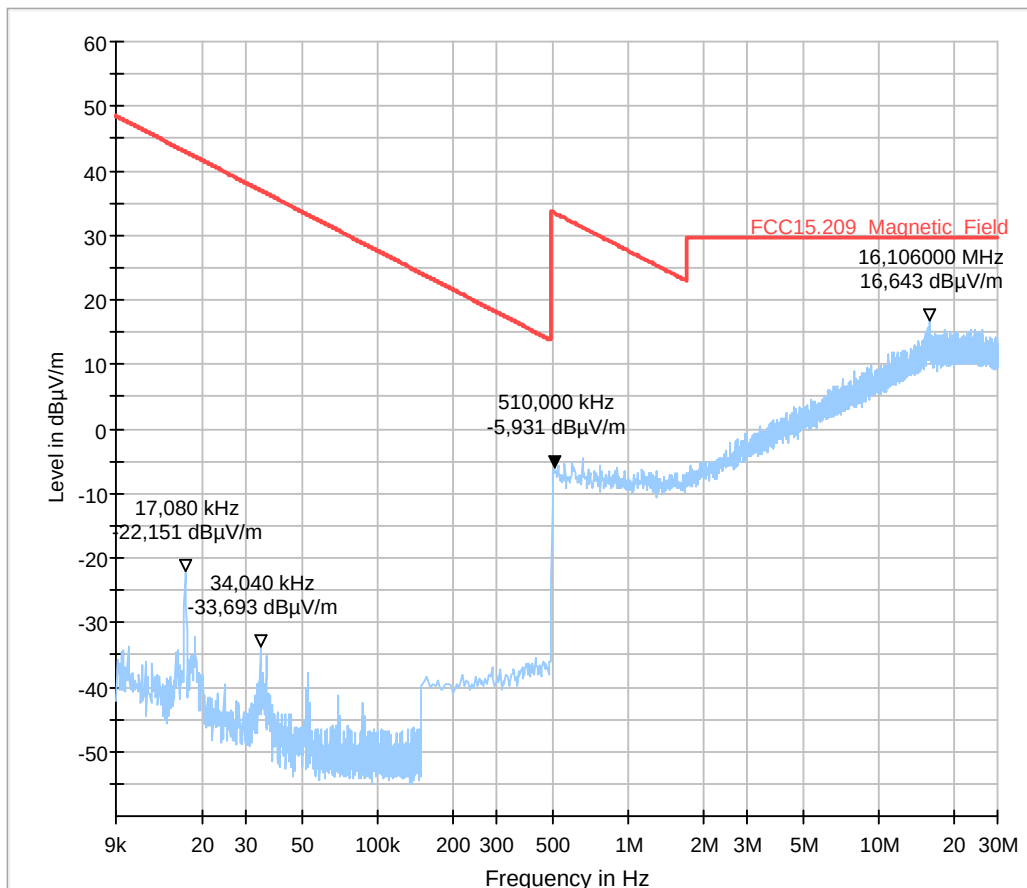


Diagram No. 2.57a_RSE_R_Ch21100_BW_20_Laying

Date:	04.05.2017	Page 1 of 1
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:	MBe	
Operating conditions:	LTE Band7 Ch:21100, BW:20MHz, RB: 1 low, QPSK	
Power during tests:	12V DC	
Comment 1:	EUT laying	

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1231-0

HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum

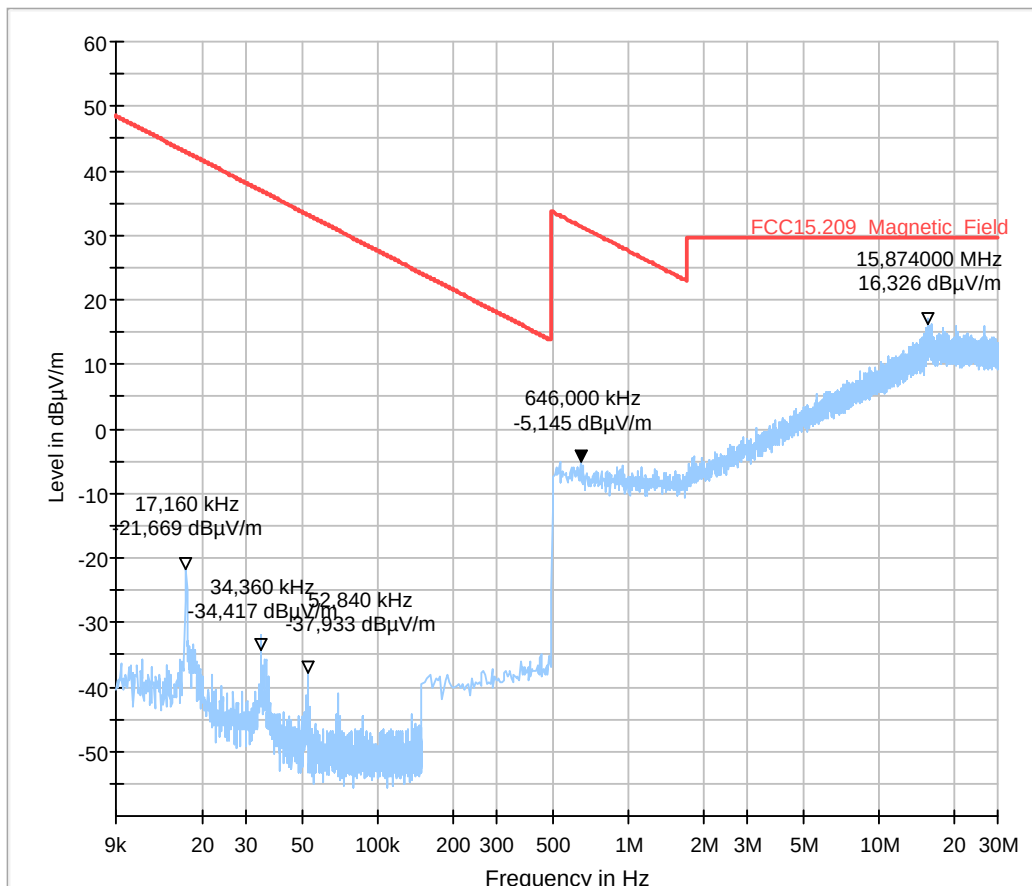


Diagram No. 2.57b_RSE_ R_Ch21100_BW_20_Standing

Test description:	Date: 04.05.2017 Page 1 of 1
Test site and distance:	Magnetic Field Strength Measurement related to 30/300 m distance
Version of Testsoftware:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Distance correction:	EMC32 V9.25.0
Technical Data:	used accord. table, pls. see test report
Rec. antenna (pre-scan):	Please see page 2 for detailed data of measurement setup
Used filter:	height 1.00 m, parallel and 90° to EUT polarisation
Test specification:	bypass
Operator:	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operating conditions:	MBe
Power during tests:	LTE Band7 Ch:21100, BW:20MHz, RB: 1 low, QPSK
Comment 1:	12V DC
	EUT standing

EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG
EUT:	V1231-0

HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum

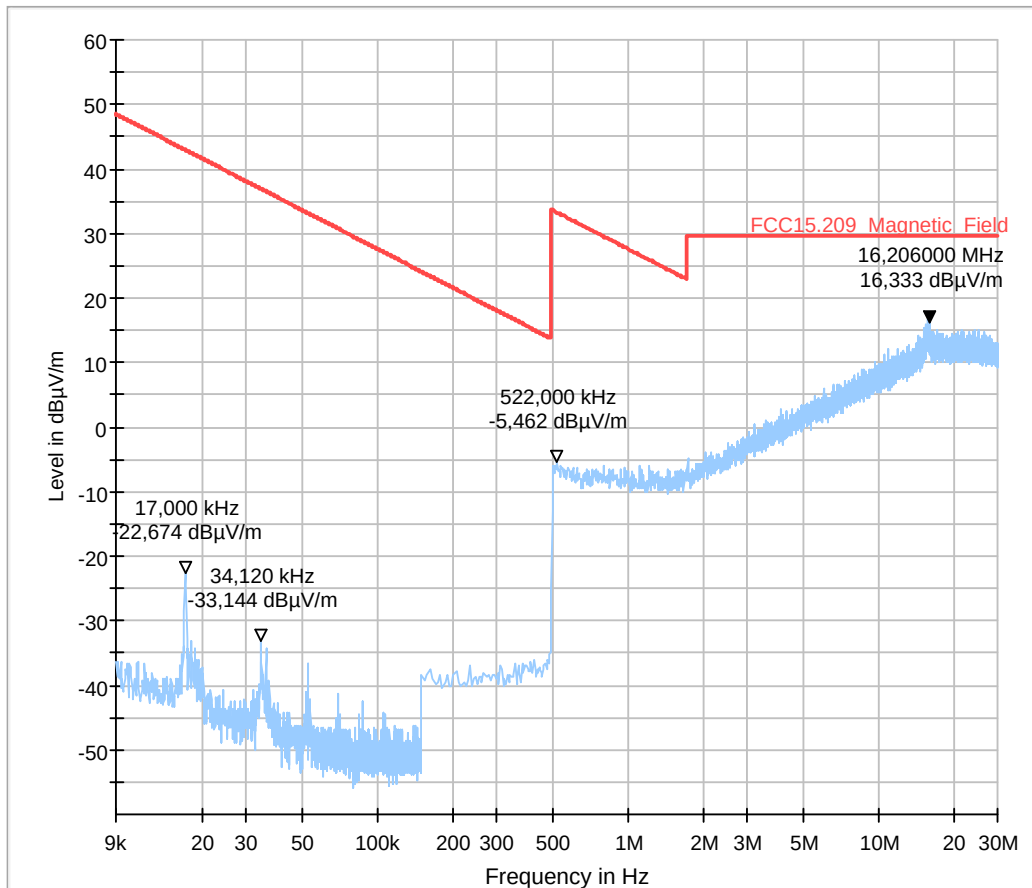


Diagram No. 2.58a_RSE_R_Ch21300_BW_20_Laying

Date:	04.05.2017	Page 1 of 1
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:	MBe	
Operating conditions:	LTE Band7 Ch:21300, BW:20MHz, RB: 1 low, QPSK	
Power during tests:	12V DC	
Comment 1:	EUT laying	

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1231-0

HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum

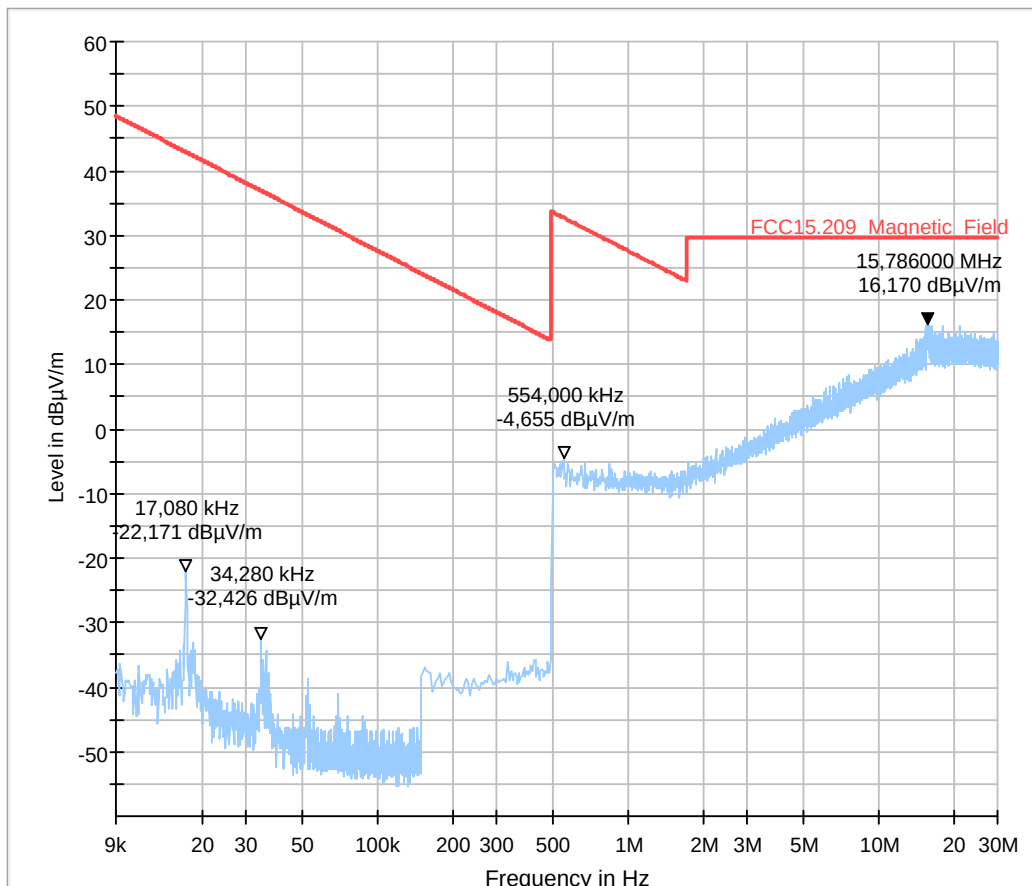


Diagram No. 2.58b_RSE_R_Ch21300_BW_20_Standing

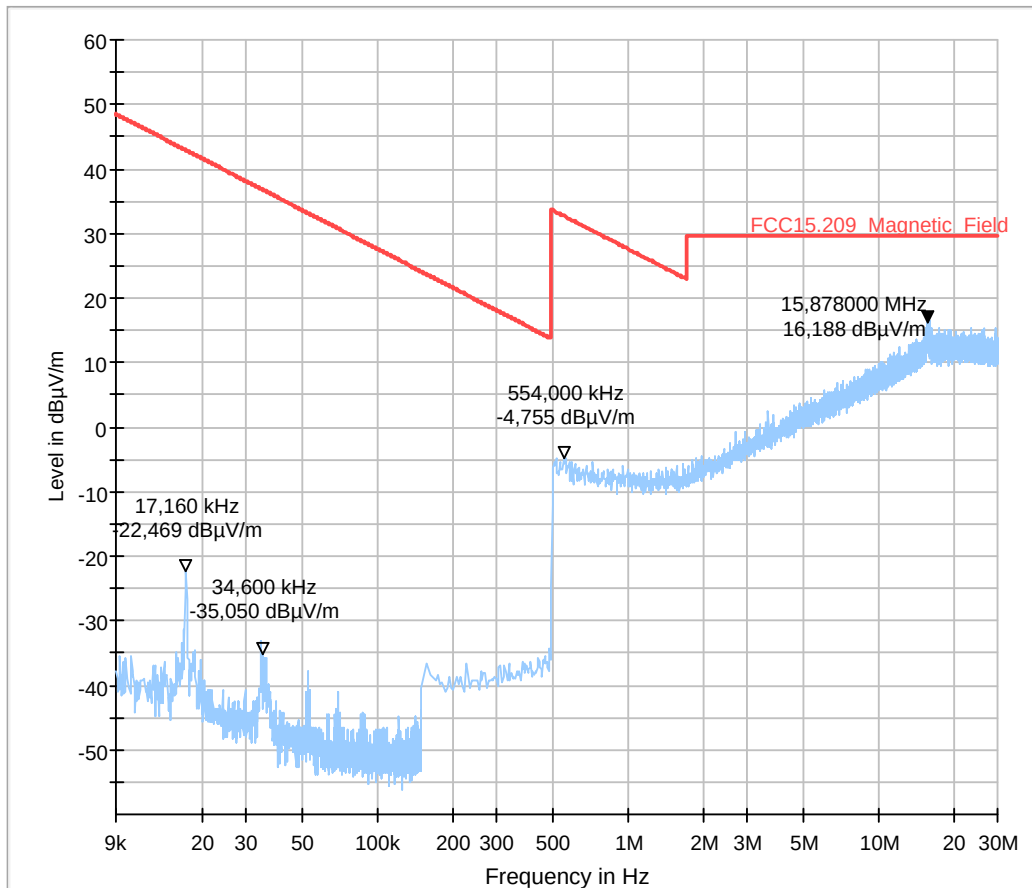
Test description:	Date: 04.05.2017 Page 1 of 1
Test site and distance:	Magnetic Field Strength Measurement related to 30/300 m distance
Version of Testsoftware:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Distance correction:	EMC32 V9.25.0
Technical Data:	used accord. table, pls. see test report
Rec. antenna (pre-scan):	Please see page 2 for detailed data of measurement setup
Used filter:	height 1.00 m, parallel and 90° to EUT polarisation
Test specification:	bypass
Operator:	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operating conditions:	MBe
Power during tests:	LTE Band7 Ch:21300, BW:20MHz, RB: 1 low, QPSK
Comment 1:	12V DC
	EUT standing

EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG
EUT:	V1231-0

HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



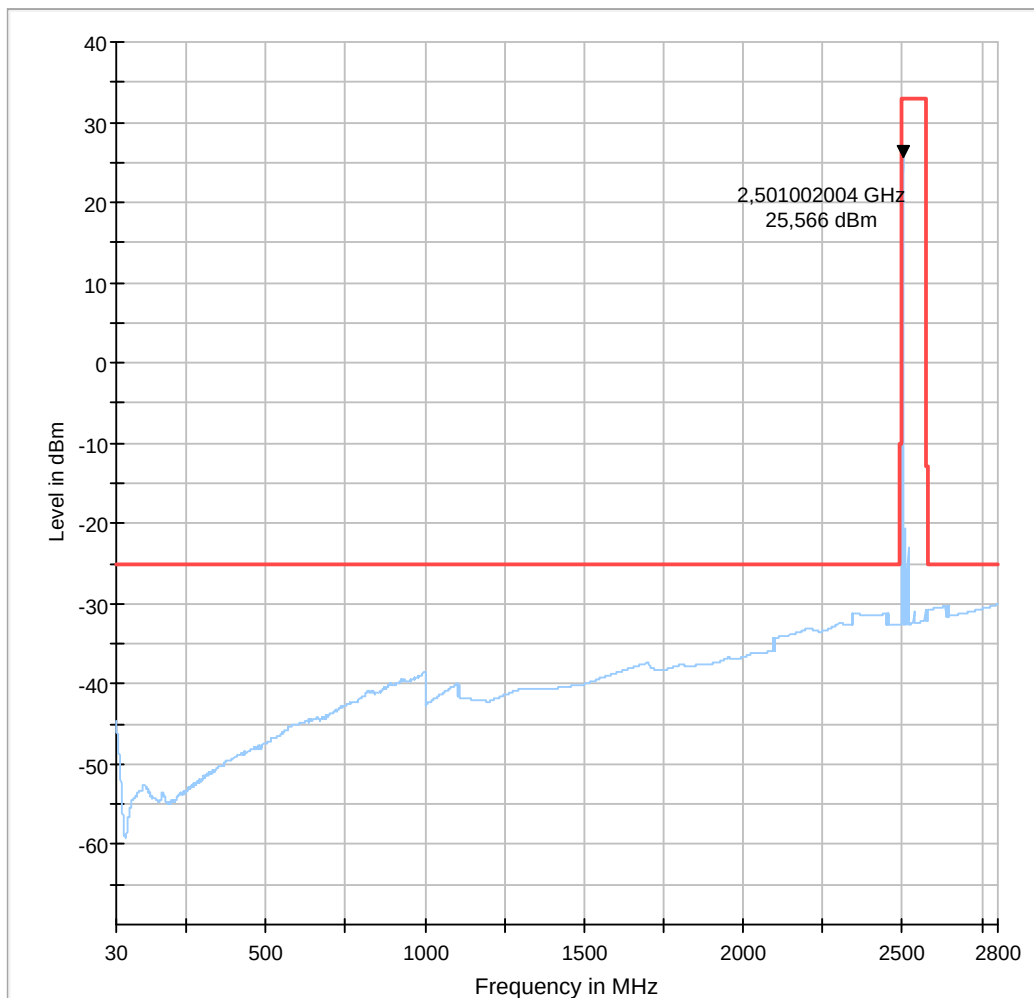
1.11.2. Emissions above 30MHz (LTE Band 7)**8.53a_RSE_R_Ch20850_BW_20_30-2.8MHz_standing****Common Information**

Test Description:	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:20 / RB:1 / Position:low
Environmental Conditions:	Humidity: 35%rH; Temperature: 20°C
Operator:	Ris
Remarks:	EUT - standing position

EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG
EUT:	V1231-0
-----	-----
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



8.54b_RSE_R_Ch20850_BW_10_MHz_30-2.8GHz_laying

Common Information

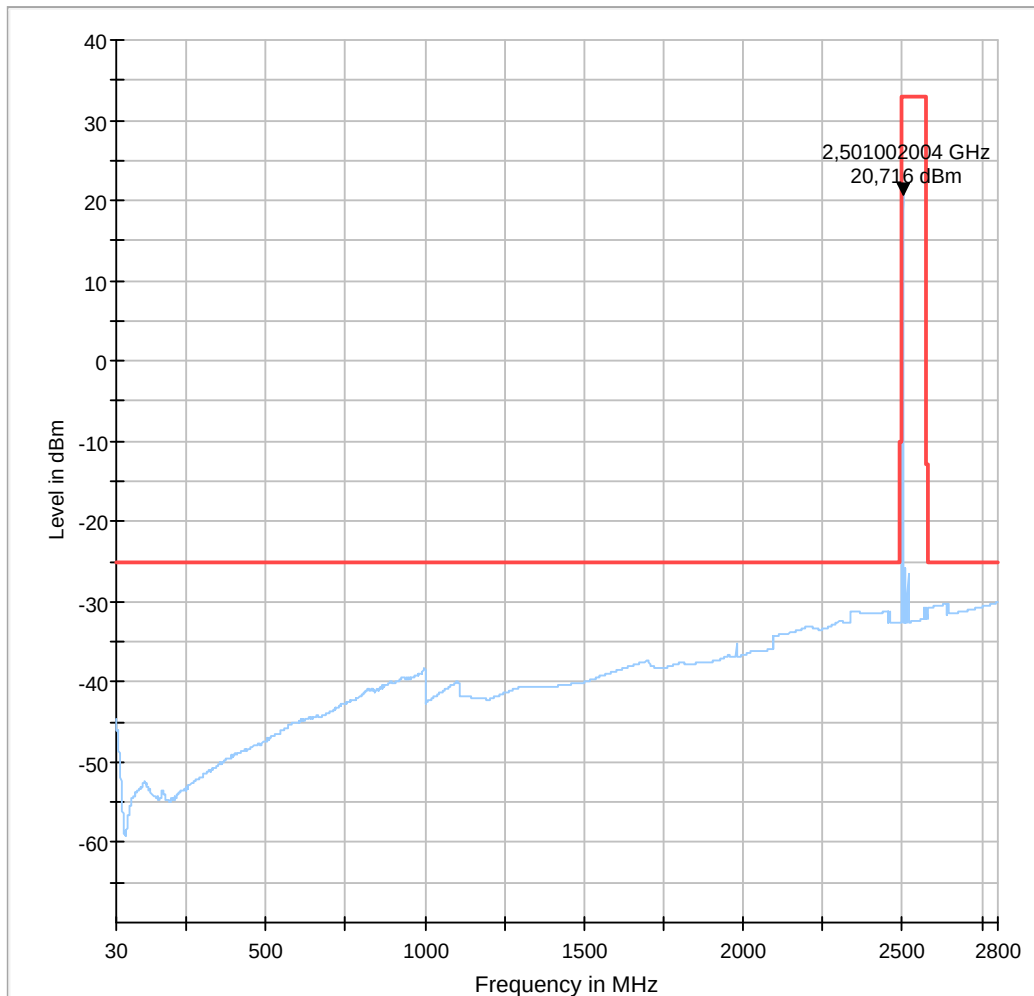
Test Description:	Radiated Spurious Emissions LTE Band 7
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 27.53(l)(4) Mobile stations limits
Operating Mode:	UE allocated channel 20850/ BW: 20/ RB:1 / Position: Low
Environmental Conditions:	Humidity: 35%rH; Temperature: 20°C
Operator:	HEI
Remarks:	EUT - laying position

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1231-0

HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



8.54bb_RSE_R_Ch20850_BW_10_MHz_2.8-20GHz_laying

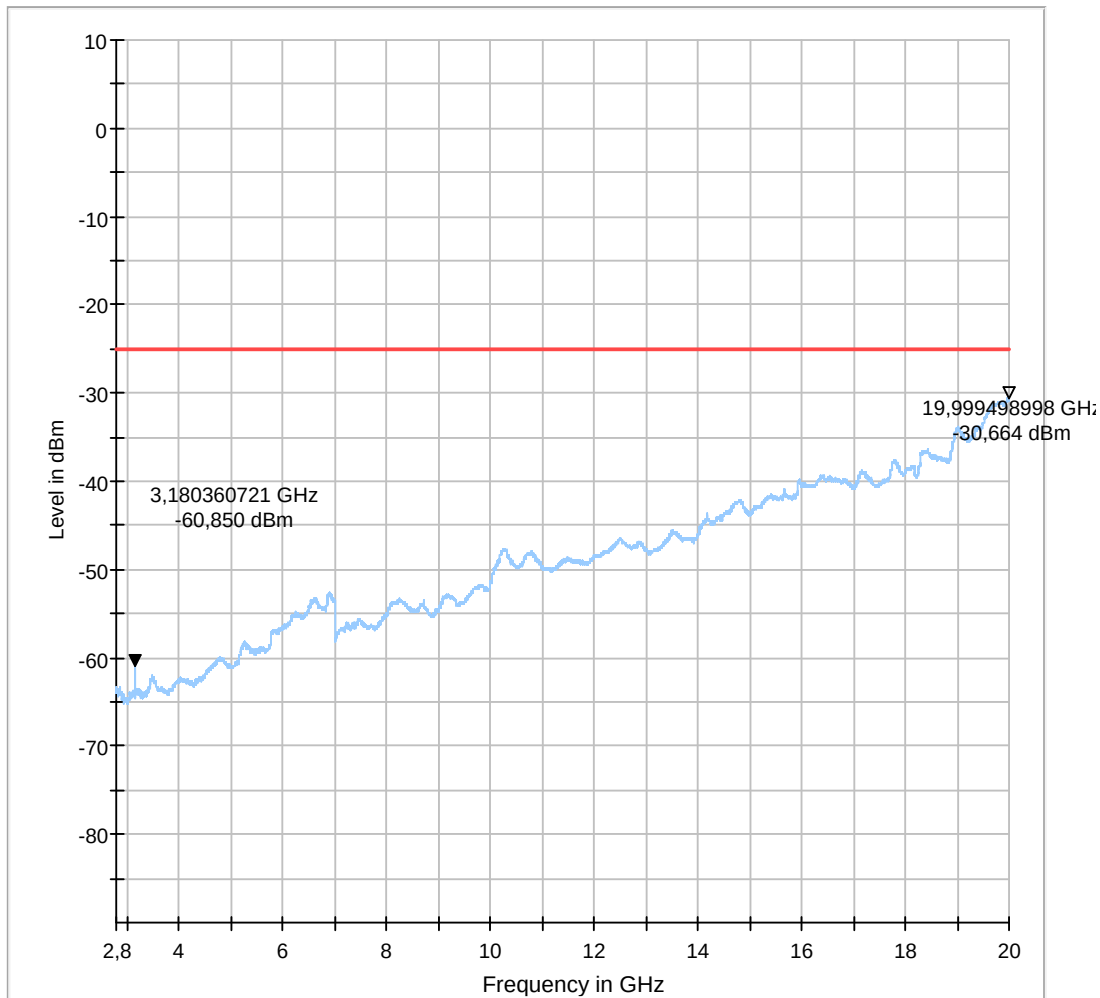
Common Information

Test Description:	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: 20/ RB:1 / Position: Low
Environmental Conditions:	Humidity: 35%rH; Temperature: 20°C
Operator:	HEI
Remarks:	EUT - laying position

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1231-0
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



8.53aa_RSE_R_Ch20850_BW_20_2.8-20MHz_standing

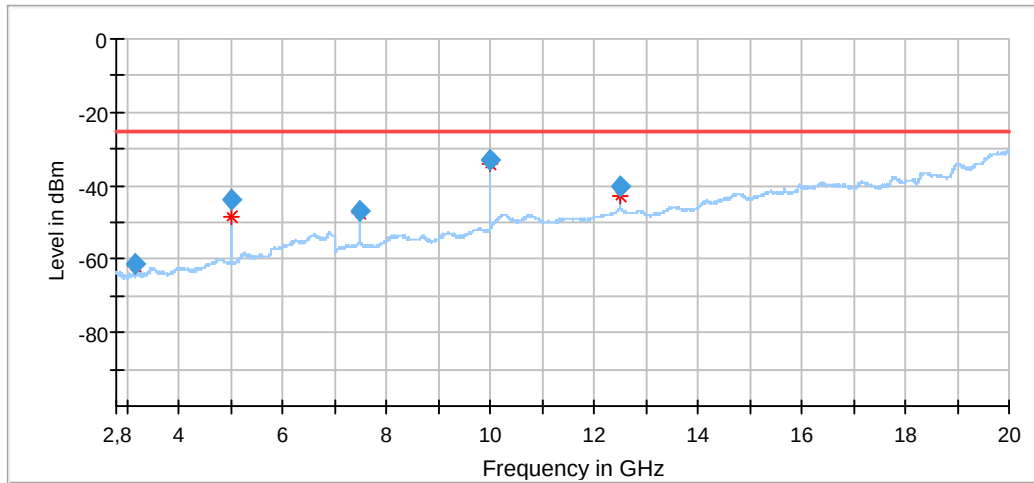
Common Information

Test Description:	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:20 / RB:1 / Position:low
Environmental Conditions:	Humidity: 35%rH; Temperature: 20°C
Operator:	RI
Remarks:	EUT - standing position

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1231-0
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



Final Result

Frequency (MHz)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Comment
3180.070140	-	36.16	1000.0	155.0	H	307.0	-95.5	22:16:07 - 21.04.2017
5002.112722	-	19.02	1000.0	155.0	H	58.0	-91.2	22:13:55 - 21.04.2017
7503.247577	-	21.83	1000.0	155.0	H	314.0	-83.3	22:17:46 - 21.04.2017
10004.418697	25.00	8.04	1000.0	155.0	H	307.0	-80.7	22:19:24 - 21.04.2017
12505.280561	25.00	15.12	1000.0	155.0	H	313.0	-75.3	22:21:04 - 21.04.2017

8.54a_RSE_R_Ch21100_BW_10_30-2.8MHz_standing**Common Information**

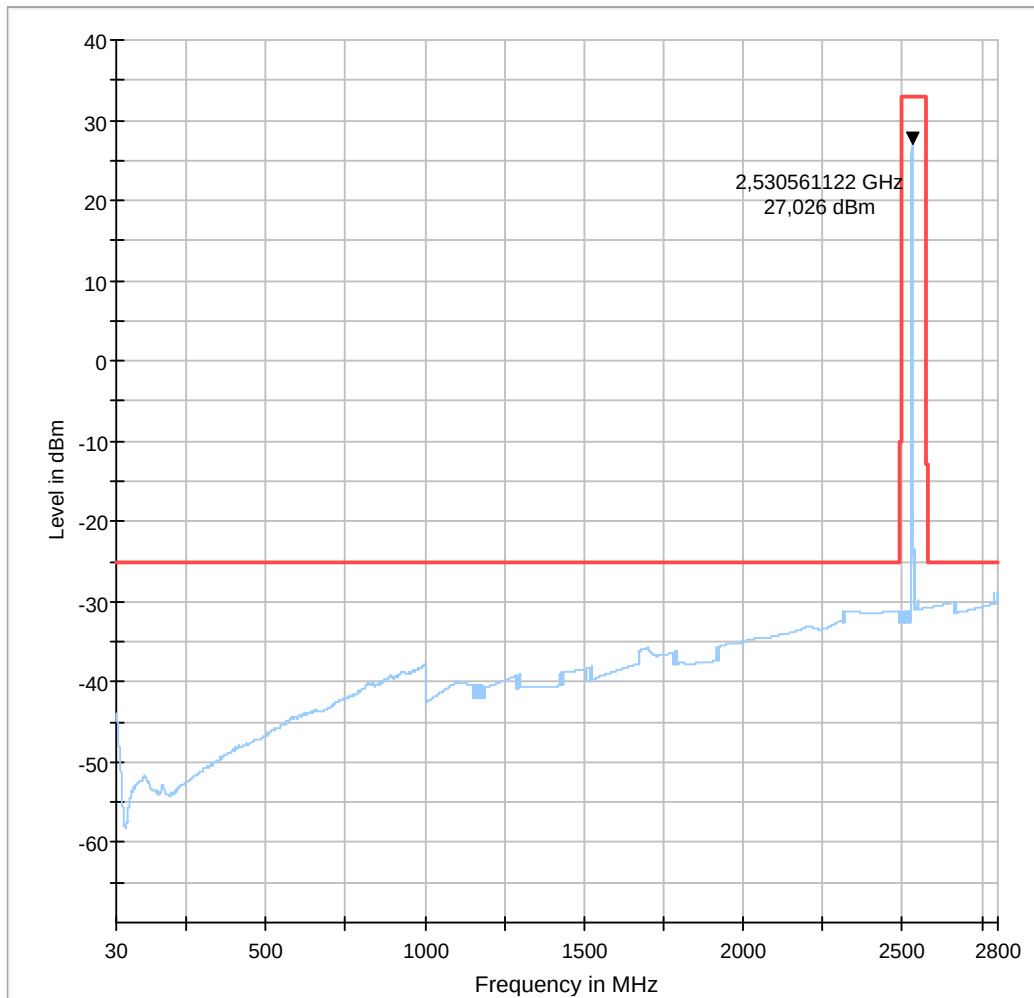
Test Description:	Radiated Spurious Emissions LTE Band 7
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 27.53(l)(4) Mobile stations limits
Operating Mode:	UE allocated channel 21100/ BW:10 / RB:1 / Position:low
Environmental Conditions:	Humidity: 35%rH; Temperature: 20°C
Operator:	RI's
Remarks:	EUT - standing position

EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG
EUT:	V1231-0

HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



8.54aa_RSE_R_Ch21100_BW_10_MHz_2.8-20MHz_standing

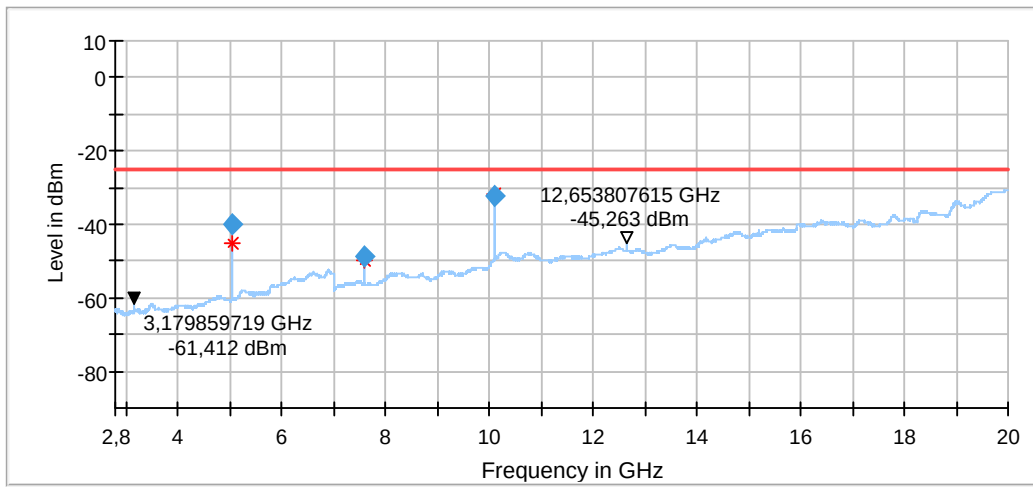
Common Information

Test Description:	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:10 / RB:1 / Position:low
Environmental Conditions:	Humidity: 35%rH; Temperature: 20°C
Operator:	Ris
Remarks:	EUT - standing position

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1231-0
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



Final Result

Frequency (MHz)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Comment
5061.212425	-	15.24	1000.0	155.0	H	57.0	-91.1	09:00:20 - 24.04.2017
7591.773547	-	23.98	1000.0	155.0	H	37.0	-83.7	08:58:38 - 24.04.2017
10122.214429	25.00	7.10	1000.0	155.0	H	307.0	-78.9	09:02:29 - 24.04.2017

8.54b_RSE_R_Ch21100_BW_10_MHz_30-2.8GHz_laying

Common Information

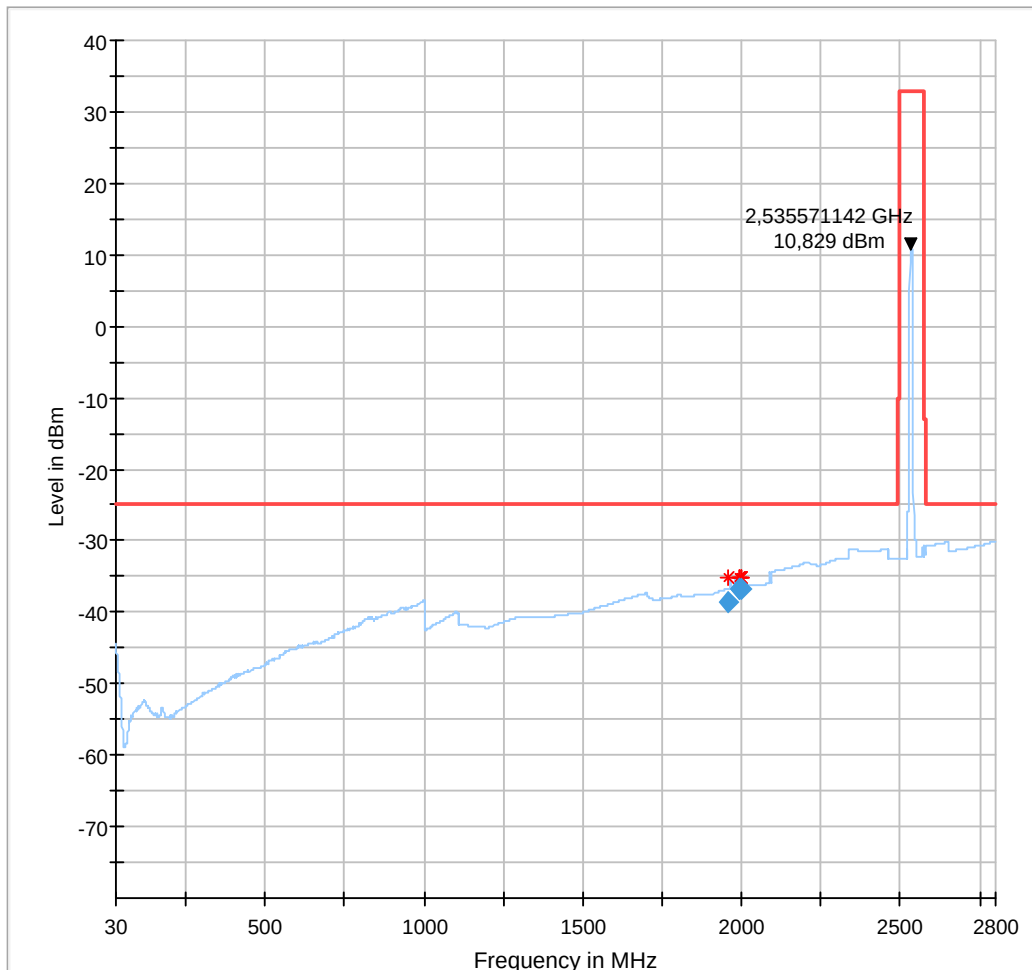
Test Description:	Radiated Spurious Emissions LTE Band 7
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 27.53(l)(4) Mobile stations limits
Operating Mode:	UE allocated channel 21100/ BW:10 / RB:1 / Position: Low
Environmental Conditions:	Humidity: 35%rH; Temperature: 20°C
Test SW Version:	EMC32 V9.26.0
Operator:	HEI
Remarks:	EUT - laying position

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1231-0

HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



8.54bb_RSE_R_Ch21100_BW_10_MHz_2.8-20GHz_laying

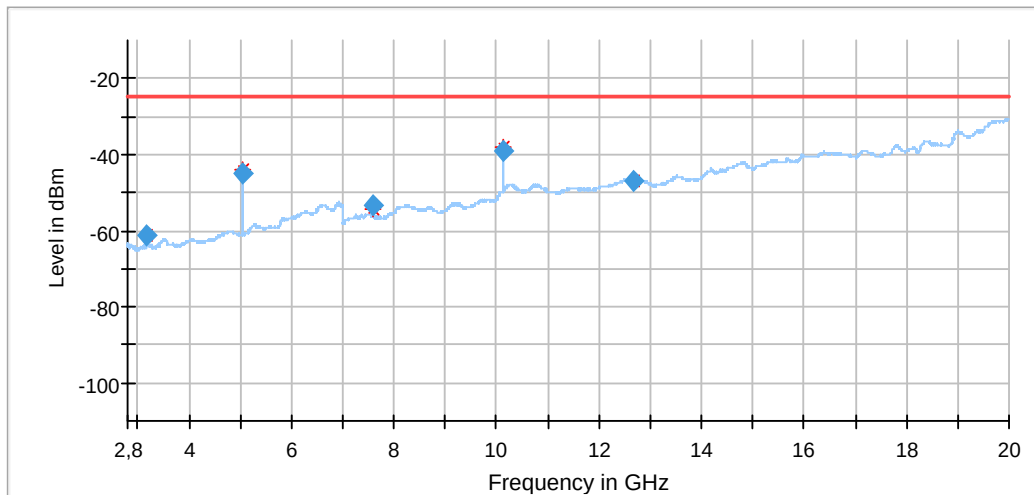
Common Information

Test Description:	Radiated Spurious Emissions LTE Band 7
Test Site Location:	CETECOM GmbH Essen
Test Site	Fully Anechoic Room (FAR)
Test Standart	FCC Part 27.53(l)(4) Mobile stations limits
Operating mode	UE allocated channel 21100/ BW:10 / RB:1 / Position: Low
Environmental conditions	Humidity: 35%rH; Temperature: 20°C
Test SW Version	EMC32 V9.26.0
Operator	MBe
Remarks	EUT - laying position

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1231-0

HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-



Final Result

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
3180.010020	-61.22	-25.00	36.22	1000.0	1000.000	155.0	V	-8.0	-95.5
5061.212425	-45.15	-25.00	20.15	1000.0	1000.000	155.0	V	217.0	-91.1
7591.693387	-53.19	-25.00	28.19	1000.0	1000.000	155.0	V	-9.0	-83.7
10122.334669	-39.02	-25.00	14.02	1000.0	1000.000	155.0	V	275.0	-78.9
12653.176352	-46.84	-25.00	21.84	1000.0	1000.000	155.0	V	276.0	-76.3

Final Result

Frequency (MHz)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Comment
1954.979960	-	13.65	1000.0	155.0	H	103.0	-62.1	13:59:52 - 24.04.2017
1993.957916	-	11.71	1000.0	155.0	V	211.0	-62.1	14:05:13 - 24.04.2017
1995.460922	-	11.68	1000.0	155.0	V	76.0	-62.1	14:03:38 - 24.04.2017
2000.000000	-	11.62	1000.0	155.0	V	256.0	-62.0	14:06:41 - 24.04.2017

8.55a_RSE_R_Ch21400_BW_10_MHz_30-2.8GHz_Standing

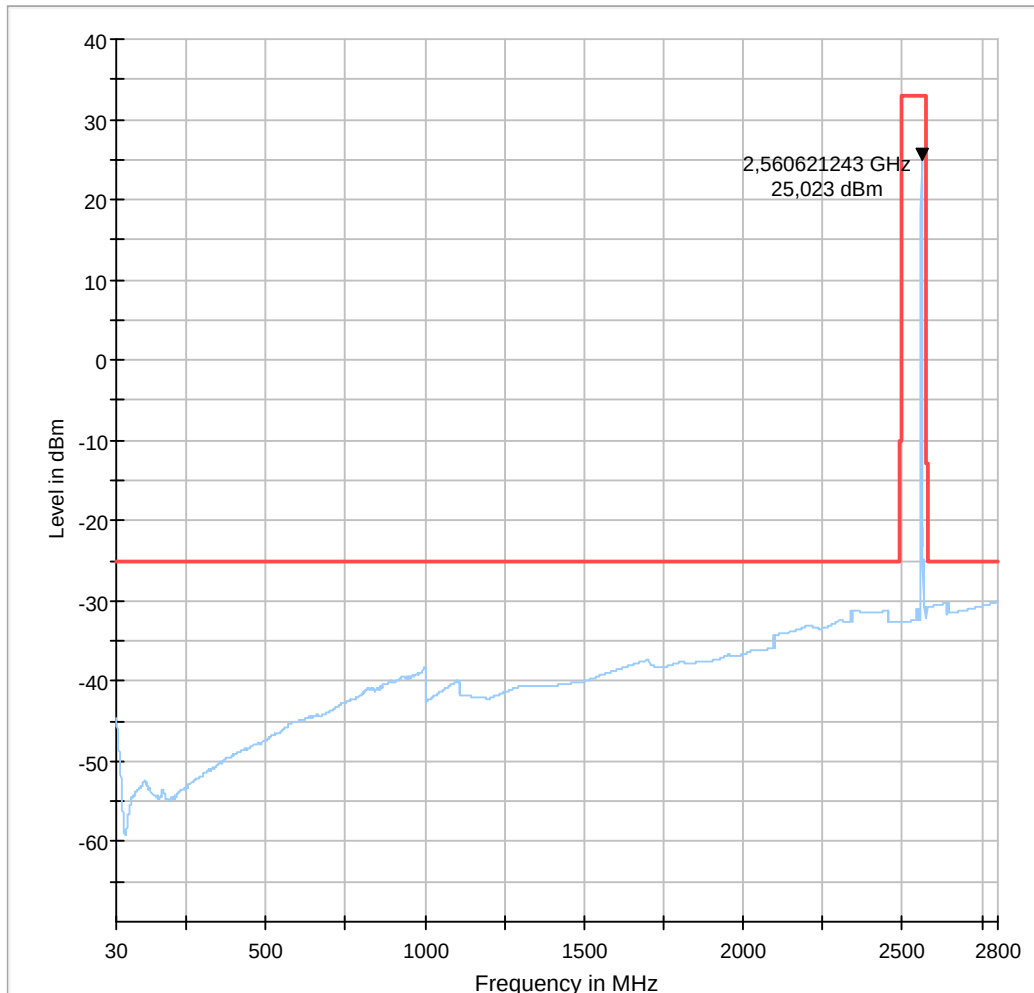
Common Information

Test Description:	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 xxx/ BW: / RB: / Position:
Environmental Conditions:	Humidity: 35%rH; Temperature: 20°C
Operator:	RIs
Remarks:	EUT - standing position

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1231-0
-----	-----
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



8.55aa_RSE_R_Ch21400_BW_10_MHz_2.8-20MHz_standing

Common Information

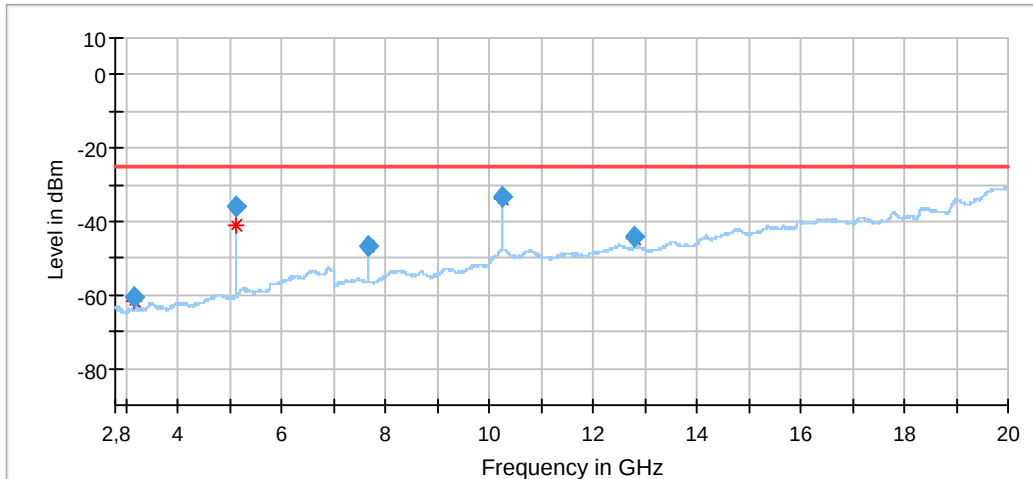
Test Description: Radiated Spurious Emissions LTE Band 7
 Test Site Location: CETECOM GmbH Essen
 Test Site: Fully Anechoic Room (FAR)
 Test Standard: FCC Part 27.53(l)(4) Mobile stations limits
 Operating Mode: UE allocated channel 21400/ BW:10 / RB:1 / Position:low
 Environmental Conditions: Humidity: 35%rH; Temperature: 20°C
 Operator: RIs
 Remarks: EUT - standing position

EUT Information

Manufacturer: peiker acoustic GmbH & Co. KG
 EUT: V1231-0

 HW version: V1231-0_Ver.1
 SW version: MPSS.TH.2.0.2-00256
 Serial number: 004402580040446
 Connected Interfaces: Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
 Power Supply: 12VDC
 Comments: -

Full Spectrum



Final Result

Frequency (MHz)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Comment
3179.889779	-	35.80	1000.0	155.0	H	307.0	-95.5	10:09:10 - 24.04.2017
5121.092184	-	11.12	1000.0	155.0	H	61.0	-90.7	10:05:20 - 24.04.2017
7681.953907	-	21.93	1000.0	155.0	H	37.0	-84.3	10:06:58 - 24.04.2017
10242.329549	25.00	8.54	1000.0	155.0	H	313.0	-77.9	10:10:45 - 24.04.2017
12802.935871	25.00	19.26	1000.0	155.0	H	313.0	-76.7	10:12:19 - 24.04.2017

8.55b_RSE_R_Ch21400_BW_10_MHz_2.8-20GHz_laying

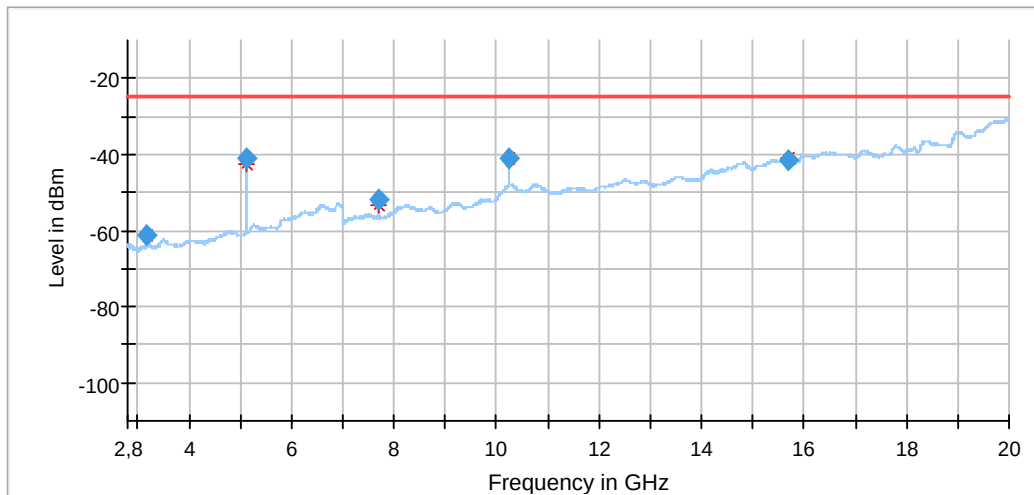
Common Information

Test Description:	Radiated Spurious Emissions LTE Band 7
Test Site Location:	CETECOM GmbH Essen
Test Site	Fully Anechoic Room (FAR)
Test Standart	FCC Part 27.53(l)(4) Mobile stations limits
Operating mode	UE allocated channel 21400/ BW:10 / RB:1 / Position: Low
Environmental conditions	Humidity: 35%rH; Temperature: 20°C
Test SW Version	EMC32 V9.26.0
Operator	MBE
Remarks	EUT - laying position

EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG
EUT:	V1231-0

HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-



Final Result

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
3179.889779	-61.29	-25.00	36.29	1000.0	1000.000	155.0	V	-8.0	-95.5
5121.132265	-40.97	-25.00	15.97	1000.0	1000.000	155.0	V	217.0	-90.7
7681.893787	-51.65	-25.00	26.65	1000.0	1000.000	155.0	V	298.0	-84.3
10242.284429	-41.22	-25.00	16.22	1000.0	1000.000	155.0	V	268.0	-77.9
15678.086172	-41.76	-25.00	16.76	1000.0	1000.000	155.0	H	-15.0	-71.6

1.12. Radiated emissions – band-edge (LTE Band 2) with signal bandwidth of 1.4MHz

1.12.1. Low band-edge, Channel 18700, QPSK, 1RB on low position

9.40a_BE_R_Ch18700_1RB_BW20_QPSK_Laying

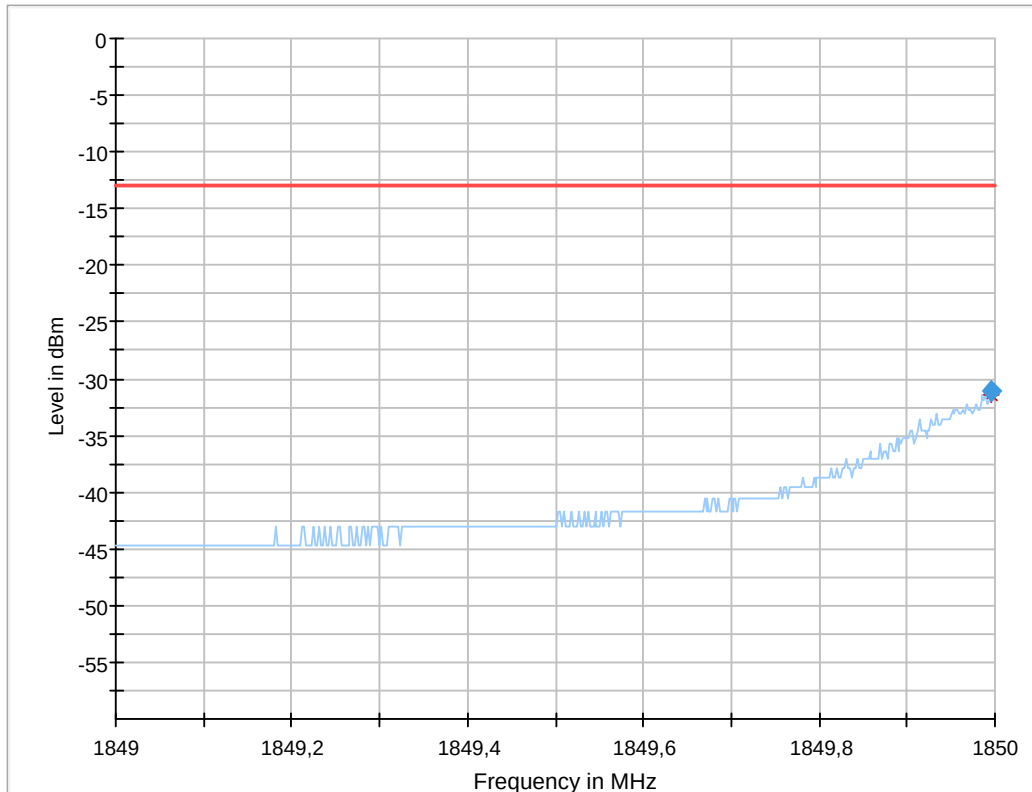
Common Information

Test Description:	Radiated Spurious Emissions LTE Band 2
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 24
Operating Mode:	UE allocated channel 18700
Environmental Conditions:	Humidity: 49%rH; Temperature: 21°C
Operator:	SLO
Comment:	EUT - laying position

EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG
EUT:	V1231-0

HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-



Final Result

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
1849.995992	-31.08	-13.00	18.08	1000.0	200.000	V	204.0	0.0	-63.1

9.40b_BE_R_Ch18700_1RB_BW20_QPSK_Standing

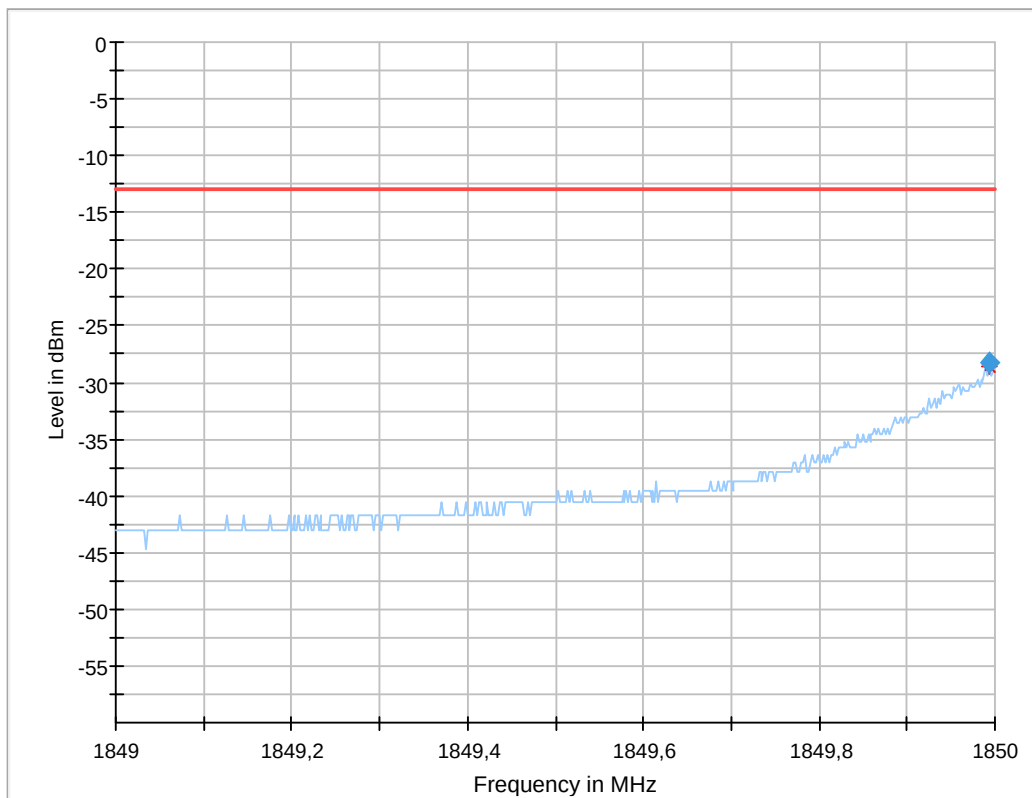
Common Information

Test Description:	Radiated Band Edge Compliance LTE B2
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 24
Operation mode:	LTE Band 2 TX ch 18700 1RB BW20 QPSK
Environmental Conditions:	Humidity: 51%rH; Temperature: 20°C
Operator:	SLo
Comment:	EUT - standing position

EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG
EUT:	V1231-0

HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-



Final Result

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
1849.993988	-28.31	-13.00	15.31	1000.0	200.000	V	342.0	90.0	-63.1

1.12.2. Low band-edge, Channel 18700, 16QAM, 1RB on low position

9.40a_BE_R_Ch18700_1RB_BW20_QAM_Laying

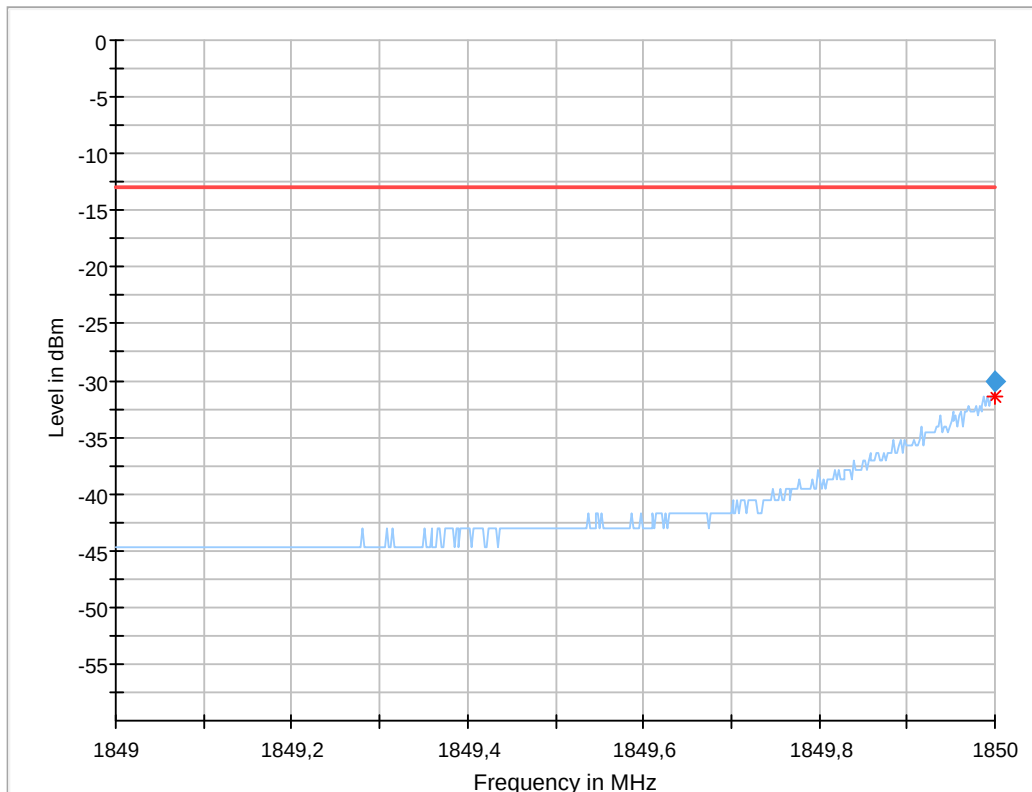
Common Information

Test Description: Radiated Spurious Emissions LTE Band 2
 Test Site Location: CETECOM GmbH Essen
 Test Site: Fully Anechoic Room (FAR)
 Test Standard: FCC Part 24
 Operating Mode: UE allocated channel 18700
 Environmental Conditions: Humidity: 49%rH; Temperature: 21°C
 Operator: SLo
 Comment: EUT - laying position

EUT Information

Manufacturer: peiker acustic GmbH & Co. KG
 EUT: V1231-0

 HW version: V1231-0_Ver.1
 SW version: MPSS.TH.2.0.2-00256
 Serial number: 004402580040446
 Connected Interfaces: Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
 Power Supply: 12VDC
 Comments: -



Final Result

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
1850.000000	-30.05	-13.00	17.05	1000.0	200.000	V	200.0	0.0	-63.1

9.40b_BE_R_Ch18700_1RB_BW20_QAM_Standing

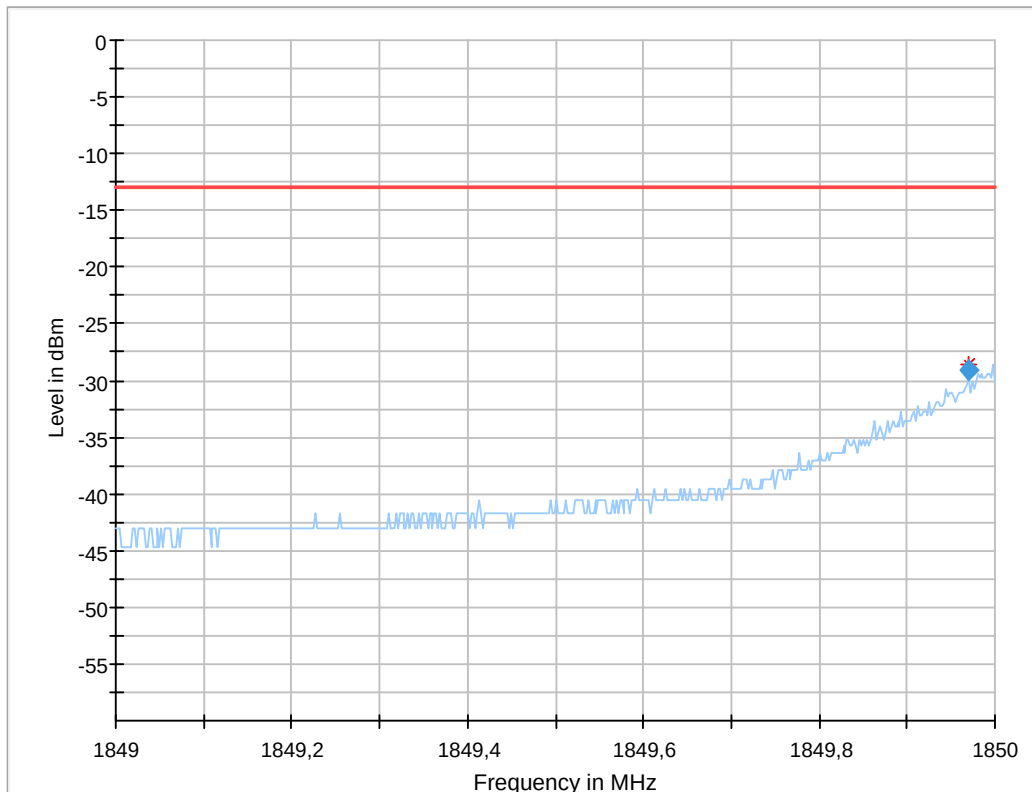
Common Information

Test Description: Radiated Band Edge Compliance LTE B2
 Test Site Location: CETECOM GmbH Essen
 Test Site: Fully Anechoic Room (FAR)
 Test Standard: FCC Part 24
 Operation mode: LTE Band 2 TX ch 18700 1RB BW20 QAM
 Environmental Conditions: Humidity: 51%rH; Temperature: 20°C
 Operator: SLo
 Comment: EUT - standing position

EUT Information

Manufacturer: peiker acustic GmbH & Co. KG
 EUT: V1231-0

 HW version: V1231-0_Ver.1
 SW version: MPSS.TH.2.0.2-00256
 Serial number: 004402580040446
 Connected Interfaces: Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
 Power Supply: 12VDC
 Comments: -



Final Result

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
1849.969940	-29.14	-13.00	16.14	1000.0	200.000	V	341.0	0.0	-63.1

1.12.3. Low band-edge, Channel 18700, QPSK, 100RBs

9.41a_BE_R_Ch18700_100RB_BW20_QPSK_Laying

Common Information

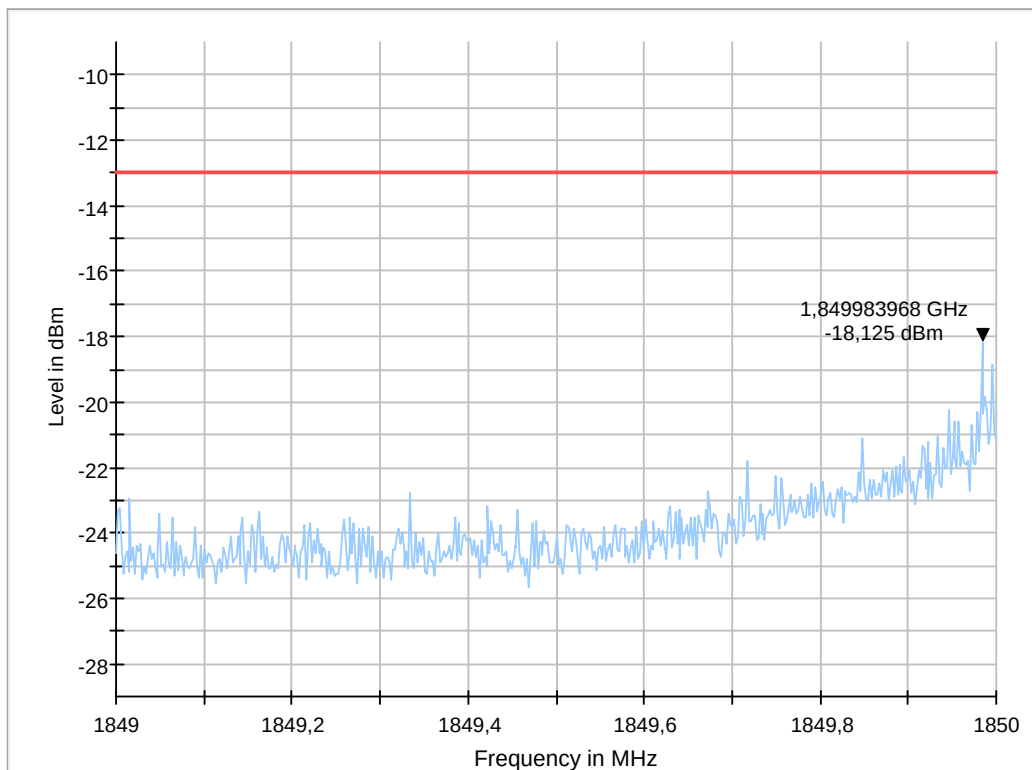
Test Description:	Radiated Spurious Emissions LTE Band 2
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 24
Operating Mode:	UE allocated channel 18700
Environmental Conditions:	Humidity: 49%rH; Temperature: 21°C
Operator:	SLo
Comment:	EUT - laying position

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1231-0

HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



9.41a_BE_R_Ch18700_100RB_BW20_QPSK_Standing

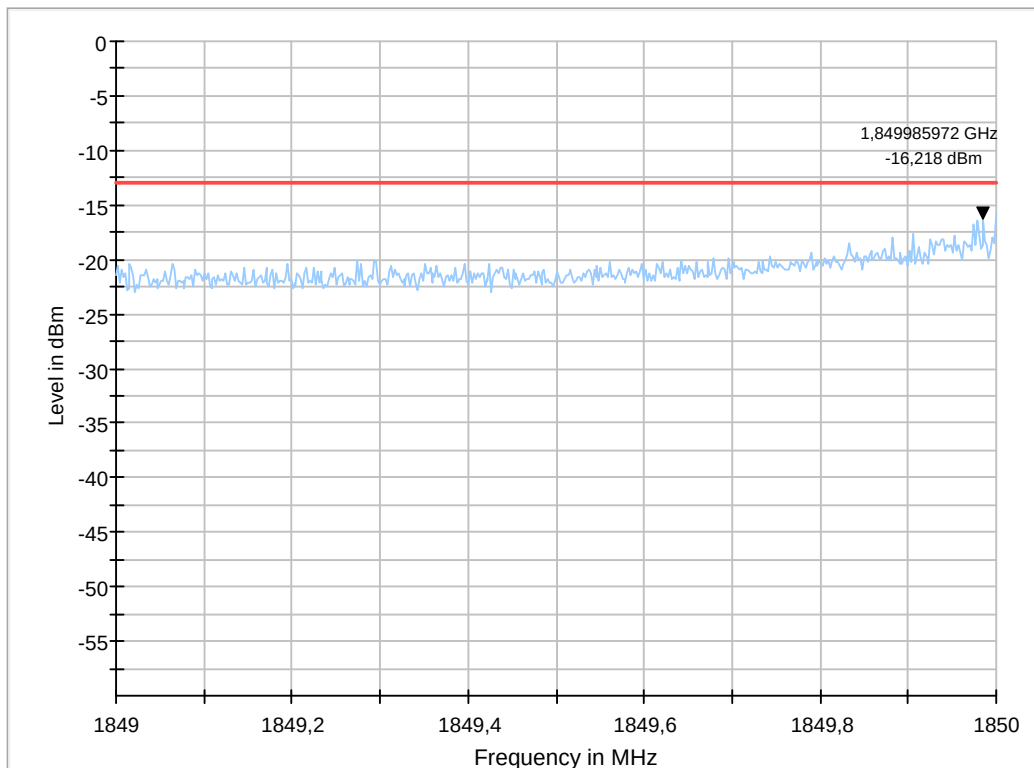
Common Information

Test Description:	Radiated Band Edge Compliance LTE B2
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 24
Operating Mode:	LTE Band 2 TX ch 18700 100RB BW20 QPSK
Environmental Conditions:	Humidity: 51%rH; Temperature: 20°C
Operator:	SLo
Comment:	EUT - standing position

EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG
EUT:	V1231-0
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



1.12.4. Low band-edge, Channel 18700, 16-QAM, 100RBs

9.41b_BE_R_Ch18700_100RB_BW20_QAM_Laying

Common Information

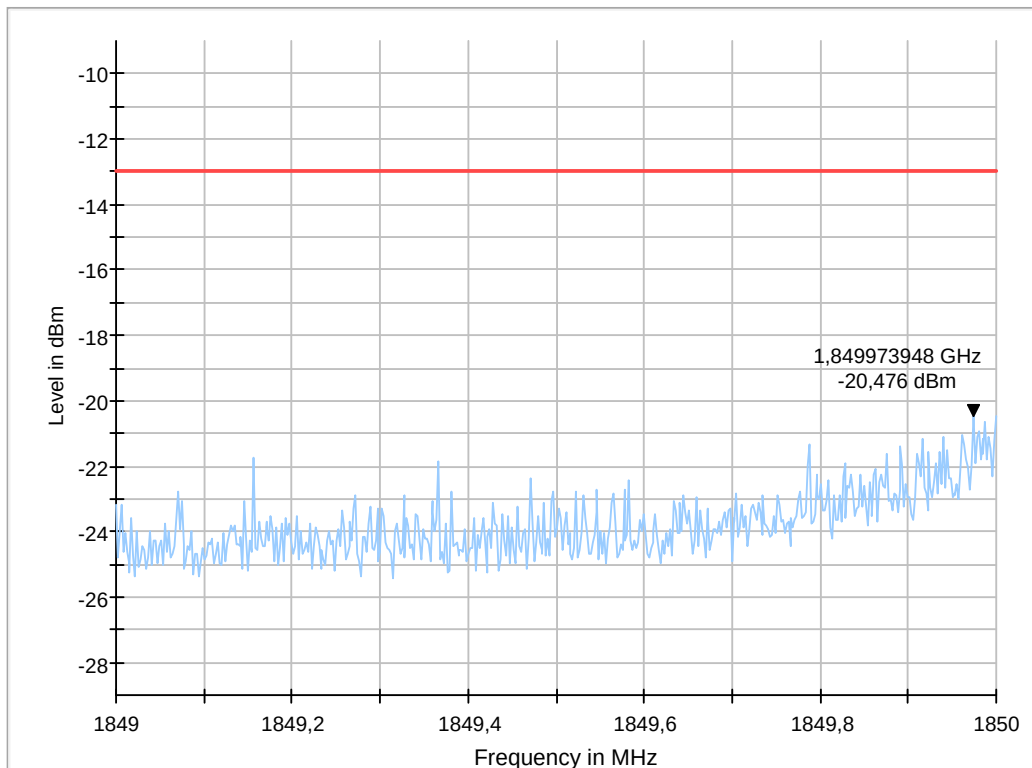
Test Description:	Radiated Spurious Emissions LTE Band 2
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 24
Operating Mode:	UE allocated channel 18700
Environmental Conditions:	Humidity: 49%rH; Temperature: 21°C
Operator:	SLo
Comment:	EUT - laying position

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1231-0

HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



9.41b_BE_R_Ch18700_100RB_BW20_QAM_Standing

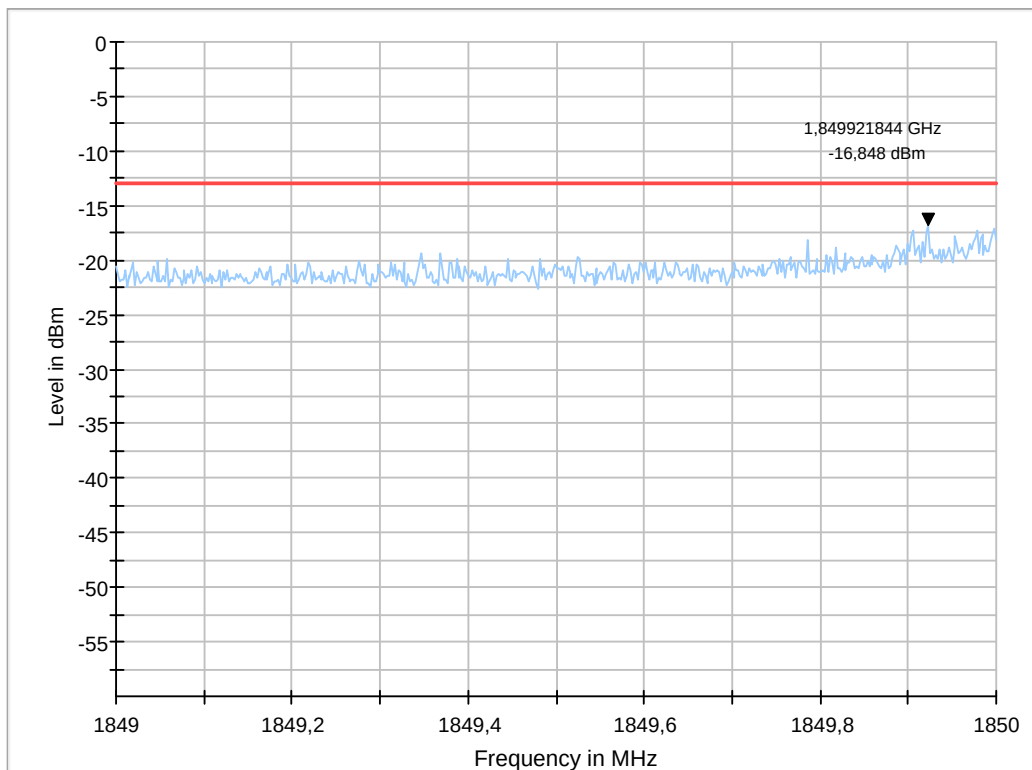
Common Information

Test Description:	Radiated Band Edge Compliance LTE B2
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 24
Operating Mode:	LTE Band 2 TX ch 18700 100RB BW20 QAM
Environmental Conditions:	Humidity: 51%rH; Temperature: 20°C
Operator:	SLo
Comment:	EUT - standing position

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1231-0
-----	-----
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



1.12.5. High band-edge, Channel 19150, QPSK, 1RB on high position

9.42a_BE_R_Ch19150_1RB_BW20_QPSK_Laying

Common Information

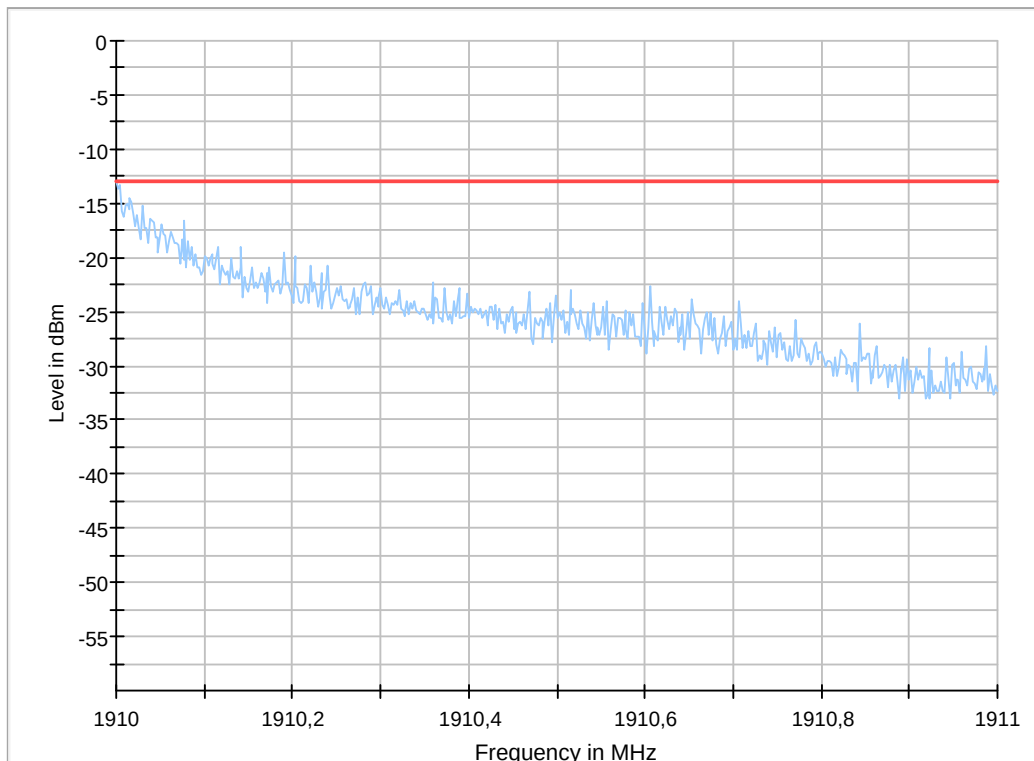
Test Description:	Radiated Spurious Emissions LTE Band 2
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 24
Operating Mode:	UE allocated channel 19150
Environmental Conditions:	Humidity: 49%rH; Temperature: 21°C
Operator:	SLO
Comment:	EUT - laying position

EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG
EUT:	V1231-0

HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



9.42a_BE_R_Ch19150_1RB_BW20_QPSK_Standing

Common Information

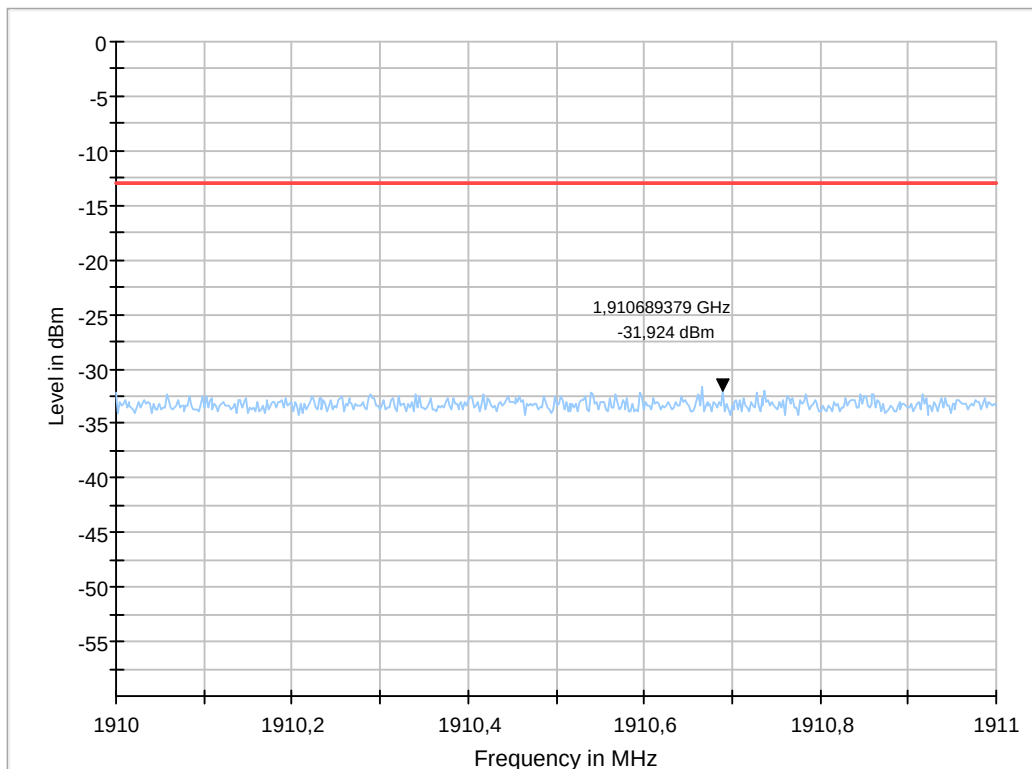
Test Description:	Radiated Band Edge Compliance LTE B2
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 24
Operating Mode:	LTE Band 2 TX ch 19150 1RB BW10 QPSK
Environmental Conditions:	Humidity: 51%rH; Temperature: 20°C
Operator:	SLo
Comment:	EUT - standing position

EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG
EUT:	V1231-0

HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



1.12.6. High band-edge, Channel 19150, 16-QAM, 1RB on high position

9.42b_BE_R_Ch19150_1RB_BW20_QAM_Laying

Common Information

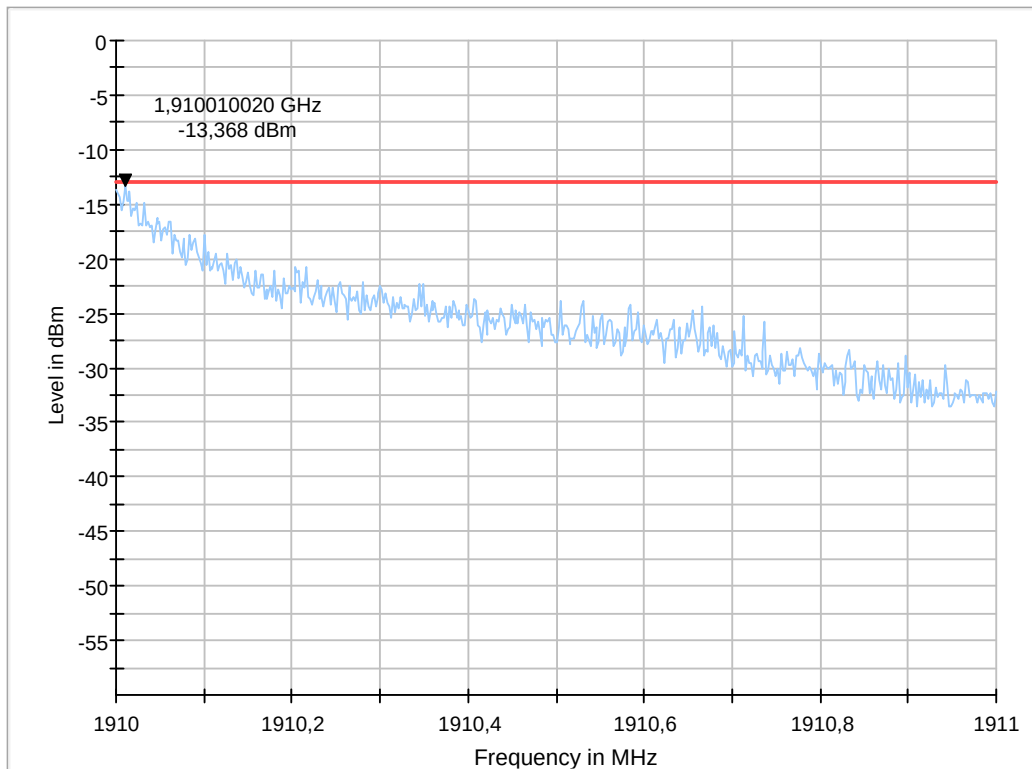
Test Description:	Radiated Spurious Emissions LTE Band 2
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 24
Operating Mode:	UE allocated channel 19150
Environmental Conditions:	Humidity: 49%rH; Temperature: 21°C
Operator:	SLo
Comment:	EUT - laying position

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1231-0

HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



9.42b_BE_R_Ch19150_1RB_BW20_QAM_Standing

Common Information

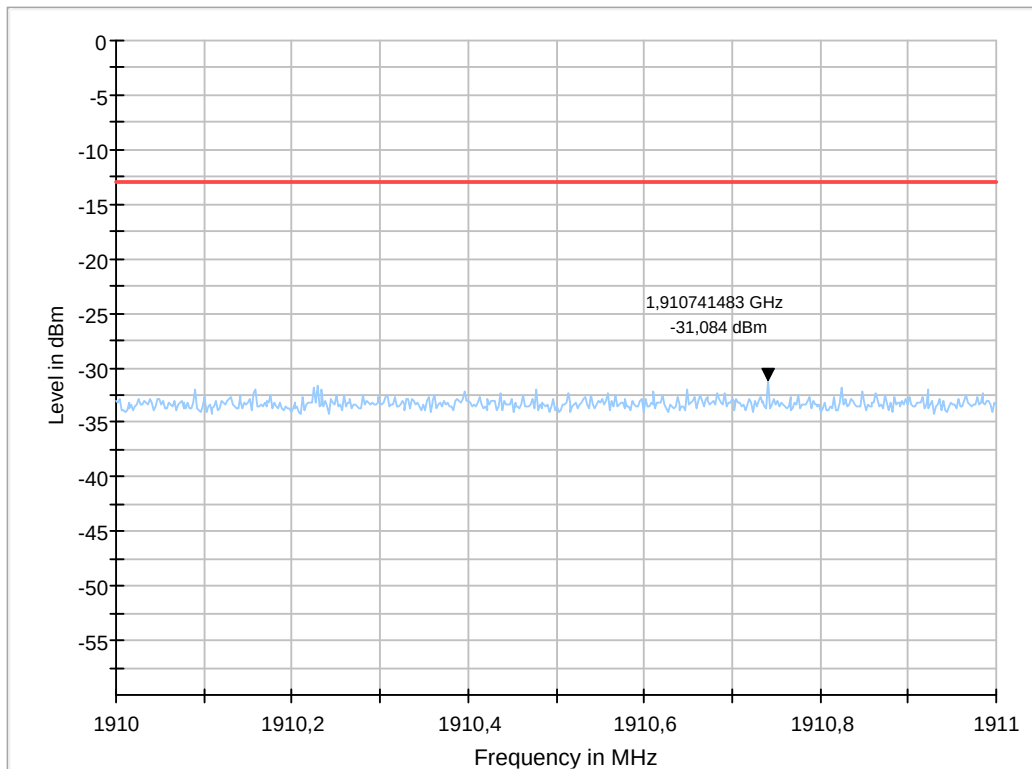
Test Description:	Radiated Band Edge Compliance LTE B2
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 24
Operating Mode:	LTE Band 2 TX ch 19150 1RB BW10 QAM
Environmental Conditions:	Humidity: 51%rH; Temperature: 20°C
Operator:	SLo
Comment:	EUT - standing position

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1231-0

HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



1.12.7. High band-edge, Channel 19150, QPSK, 100RBs

9.43a_BE_R_Ch19150_100RB_BW20_QPSK_Laying

Common Information

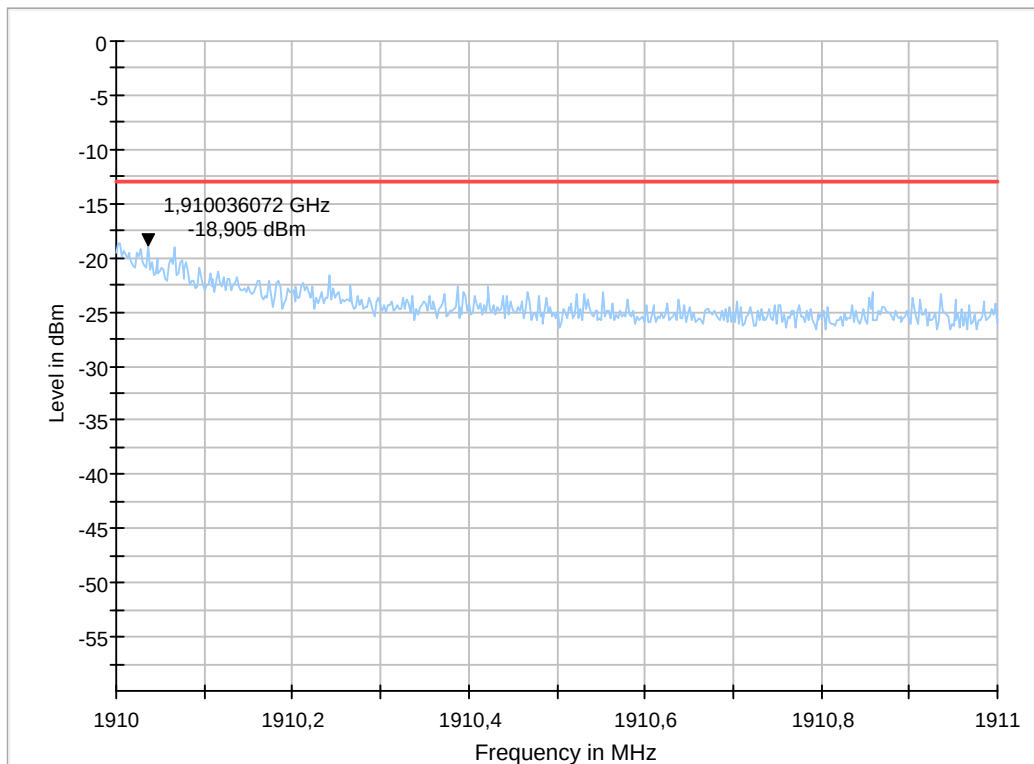
Test Description:	Radiated Spurious Emissions LTE Band 2
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 24
Operating Mode:	UE allocated channel 19150
Environmental Conditions:	Humidity: 49%rH; Temperature: 21°C
Operator:	SLo
Comment:	EUT - laying position

EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG
EUT:	V1231-0
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC

Comments: -

Full Spectrum



9.43a_BE_R_Ch19150_100RB_BW20_QPSK_Standing

Common Information

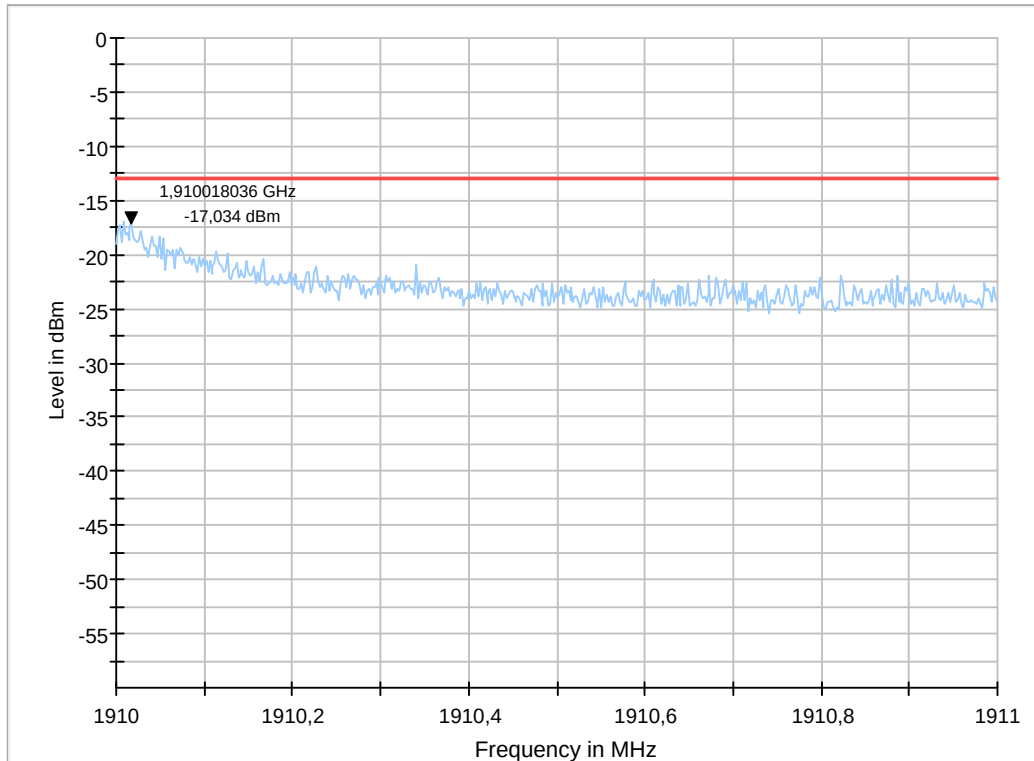
Test Description:	Radiated Band Edge Compliance LTE B2
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 24
Operating Mode:	LTE Band 2 TX ch 19150 50RB BW10 QPSK
Environmental Conditions:	Humidity: 51%rH; Temperature: 20°C
Operator:	SLo
Comment:	EUT - standing position

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1231-0

HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



1.12.8. High band-edge, Channel 19150, 16-QAM, 100RBs

9.43b_BE_R_Ch19150_100RB_BW20_QAM_Laying

Common Information

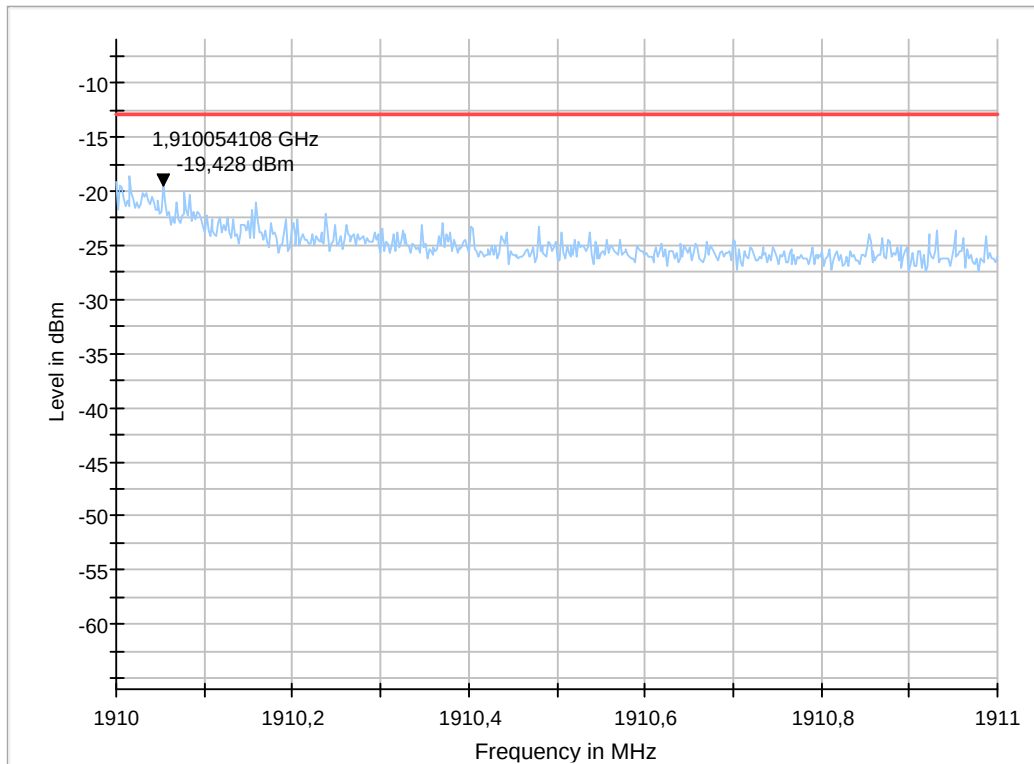
Test Description:	Radiated Spurious Emissions LTE Band 2
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 24
Operating Mode:	UE allocated channel 19150
Environmental Conditions:	Humidity: 49%rH; Temperature: 21°C
Operator:	SLo
Comment:	EUT - laying position

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1231-0
-----	-----
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446

Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna
Power Supply:	LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Comments:	12VDC
	-

Full Spectrum



9.43b_BE_R_Ch19150_50RB_BW10_QAM_Standing

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 24
Operating Mode:	LTE Band 2 TX ch 19150 50RB BW10 QAM
Environmental Conditions:	Humidity: 51%rH; Temperature: 20°C
Operator:	SLo
Comment:	EUT - standing position

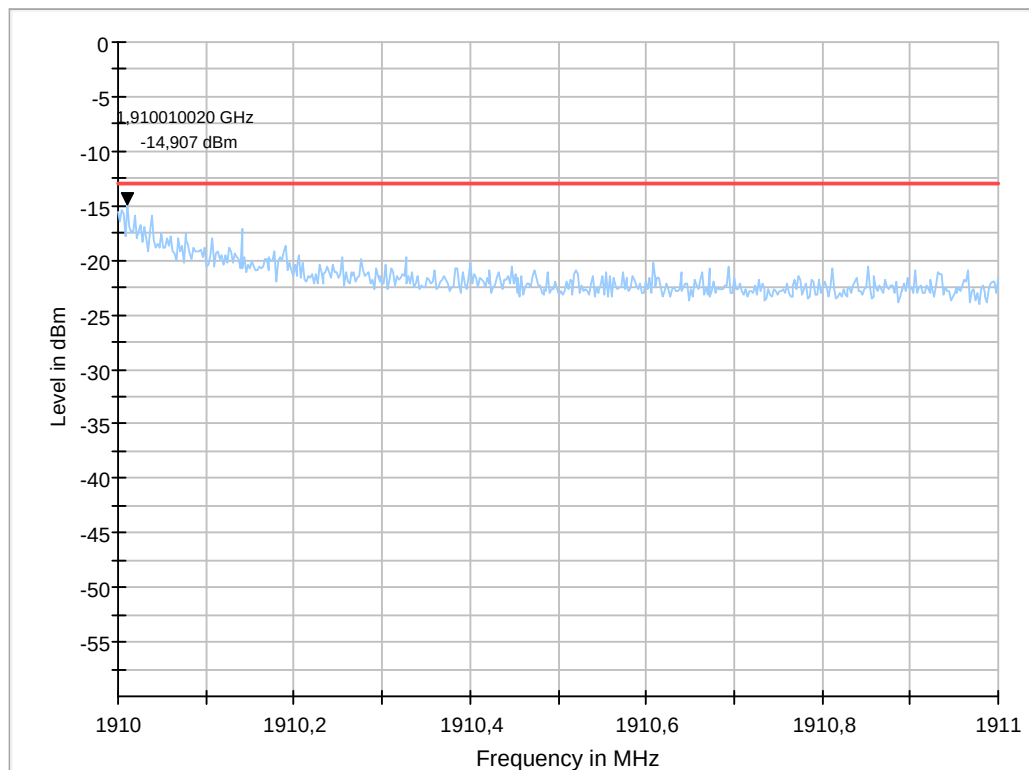
EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG
EUT:	V1231-0

HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446

Connected Interfaces: Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna
LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply: 12VDC
Comments: -

Full Spectrum



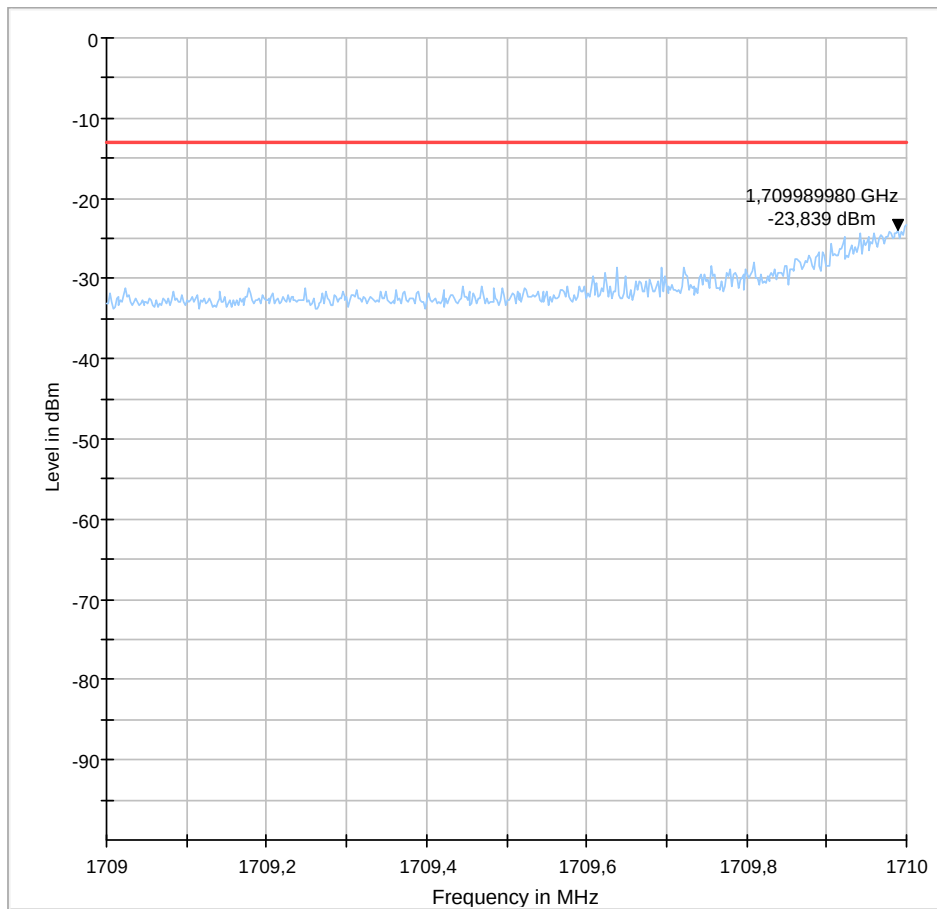
1.13. Radiated emissions – band-edge (LTE Band 4) with signal bandwidth of 1.4MHz**1.13.1. Low Band-Edge, channel 20050, QPSK, 1RB on low position****9.48a_BE_R_Ch20050_1RB_BW20_QPSK_Standing****Common Information**

Test Description:	Band-Edge - Radiated Spurious Emissions LTE Band 4
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 27
Operating Mode:	UE allocated channel 20050
Environmental Conditions:	Humidity: 35%rH; Temperature: 20°C
Operator:	RI
Remarks:	EUT - standing position

EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG
EUT:	V1231-0
-----	-----
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



9.48a_BE_R_Ch20050_1RB_BW20_QPSK_Laying

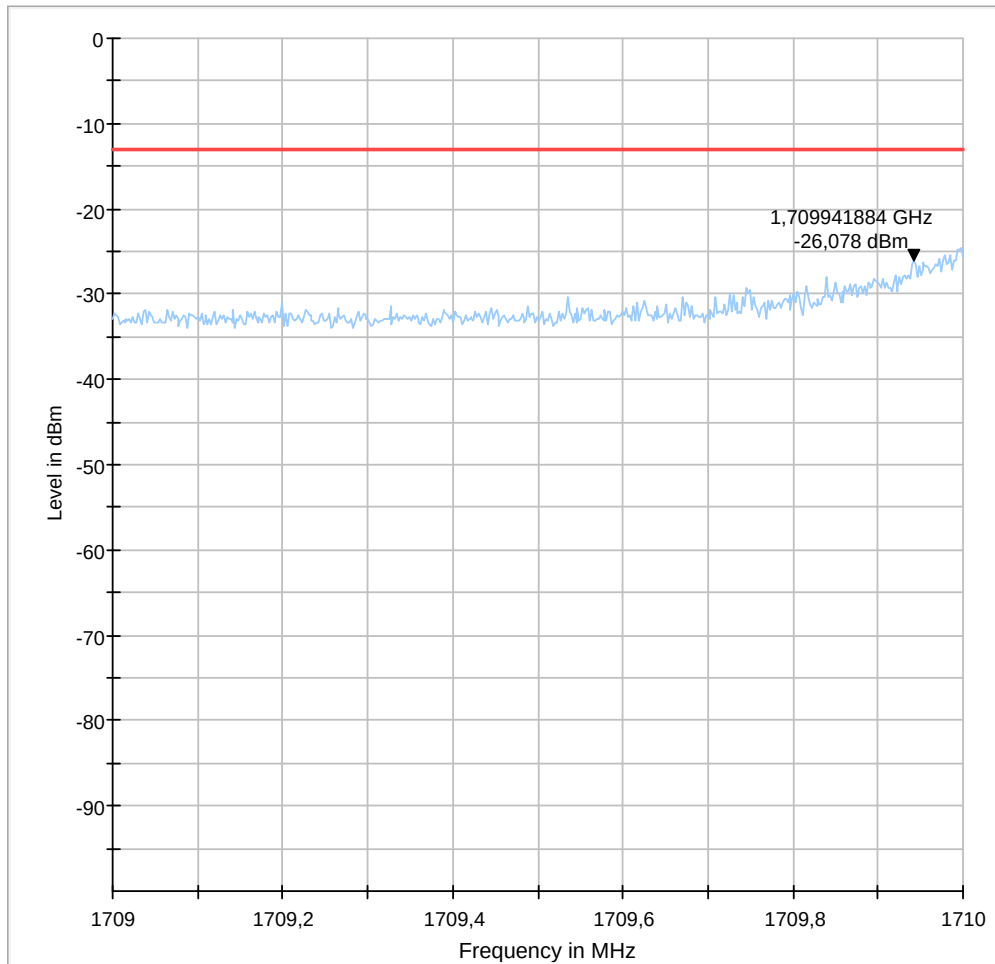
Common Information

Test Description:	Band-Edge - Radiated Spurious Emissions LTE Band 4
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 27
Operating Mode:	UE allocated channel 20050
Environmental Conditions:	Humidity: 51%rH; Temperature: 20°C
Operator:	SLO
Comment:	EUT - laying position

EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG
EUT:	V1231-0
-----	-----
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



1.13.2. Low Band-Edge, channel 20050, 16-QAM, 1RB on low position

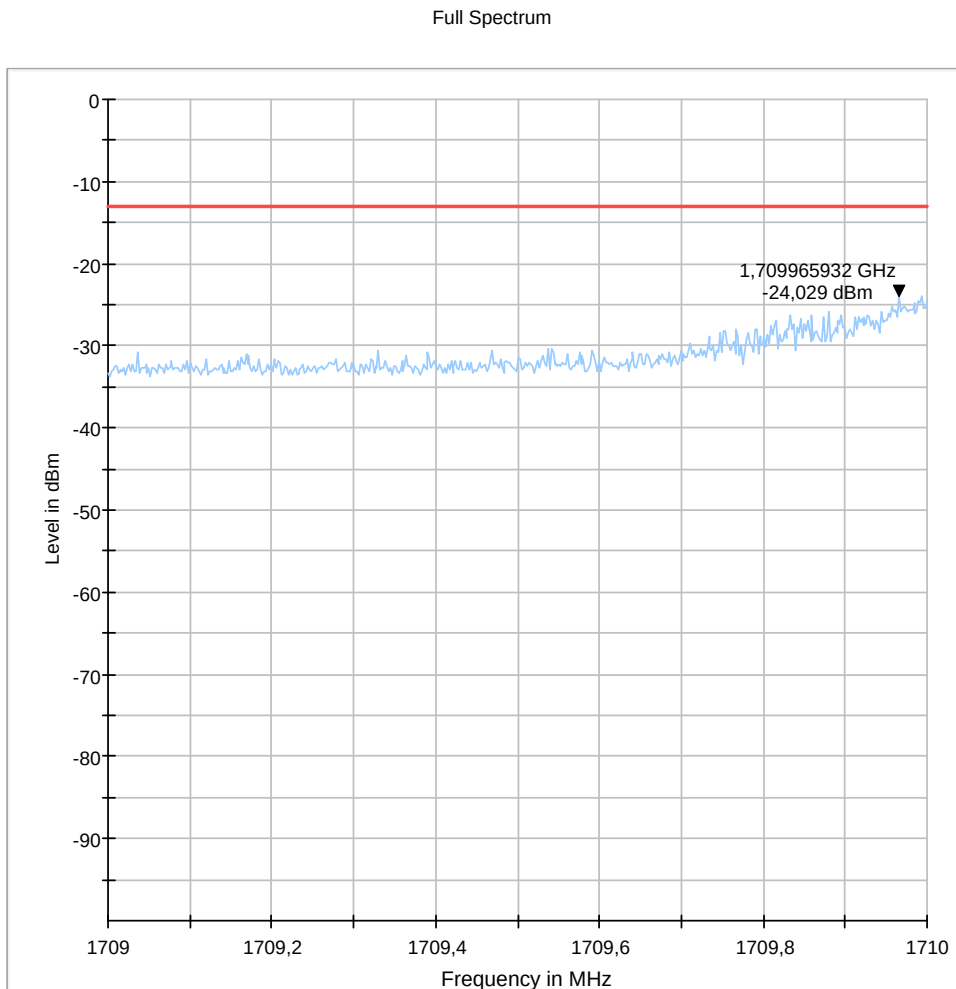
9.48b_BE_R_Ch20050_1RB_BW20_QAM_Standing

Common Information

Test Description:	Band-Edge - Radiated Spurious Emissions LTE Band 4
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 27
Operating Mode:	UE allocated channel 20050
Environmental Conditions:	Humidity: 35%rH; Temperature: 20°C
Operator:	RI
Remarks:	EUT - standing position

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1231-0
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-



9.48b_BE_R_Ch20050_1RB_BW20_QAM_Laying

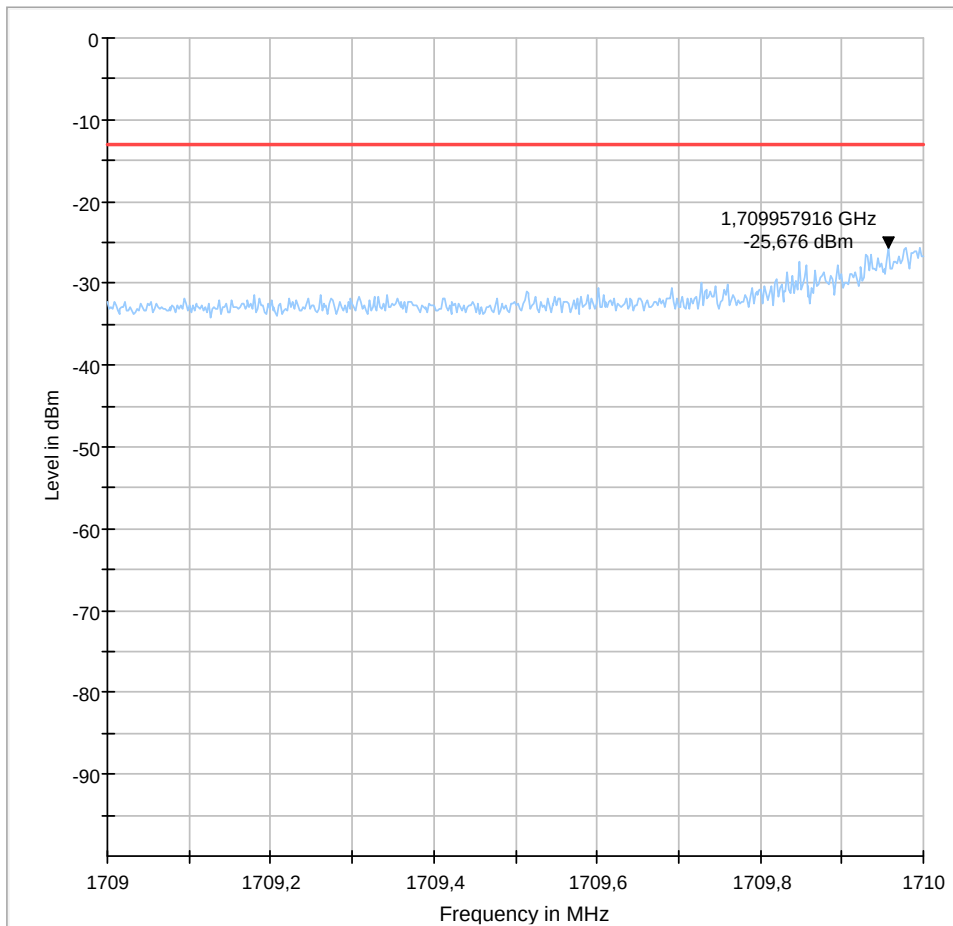
Common Information

Test Description:	Band-Edge - Radiated Spurious Emissions LTE Band 4
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 27
Operating Mode:	UE allocated channel 20050
Environmental Conditions:	Humidity: 49%rH; Temperature: 21°C
Operator:	SLo
Comment:	EUT - laying position

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1231-0
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



1.13.3. Low Band-Edge, channel 20050, QPSK, 100RBs

9.49a_BE_R_Ch20050_100RB_BW20_QPSK_Standing

Common Information

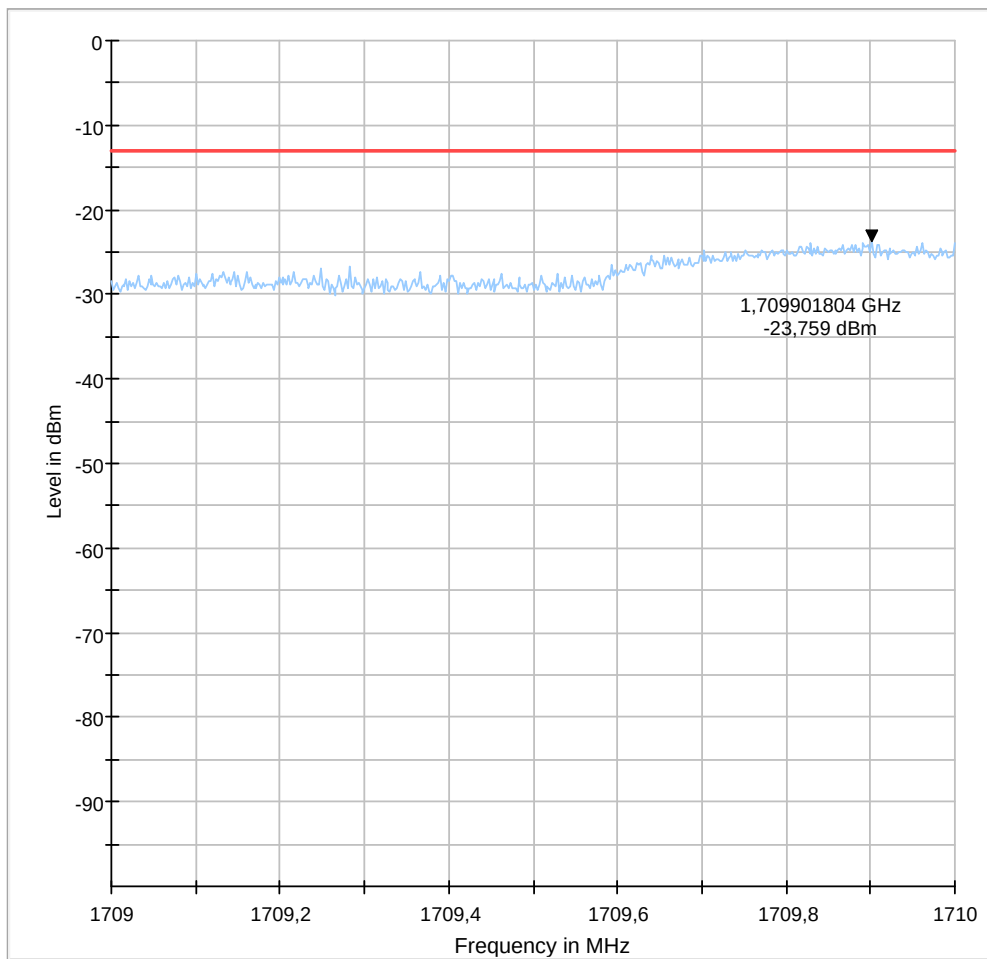
Test Description:	Band-Edge - Radiated Spurious Emissions LTE Band 4
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 27
Operating Mode:	UE allocated channel 20050
Environmental Conditions:	Humidity: 35%rH; Temperature: 20°C
Operator:	RLS
Remarks:	EUT - standing position

EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG
EUT:	V1231-0
-----	-----
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC

Comments: -

Full Spectrum



9.49a_BE_R_Ch20050_100RB_BW20_QPSK_Laying

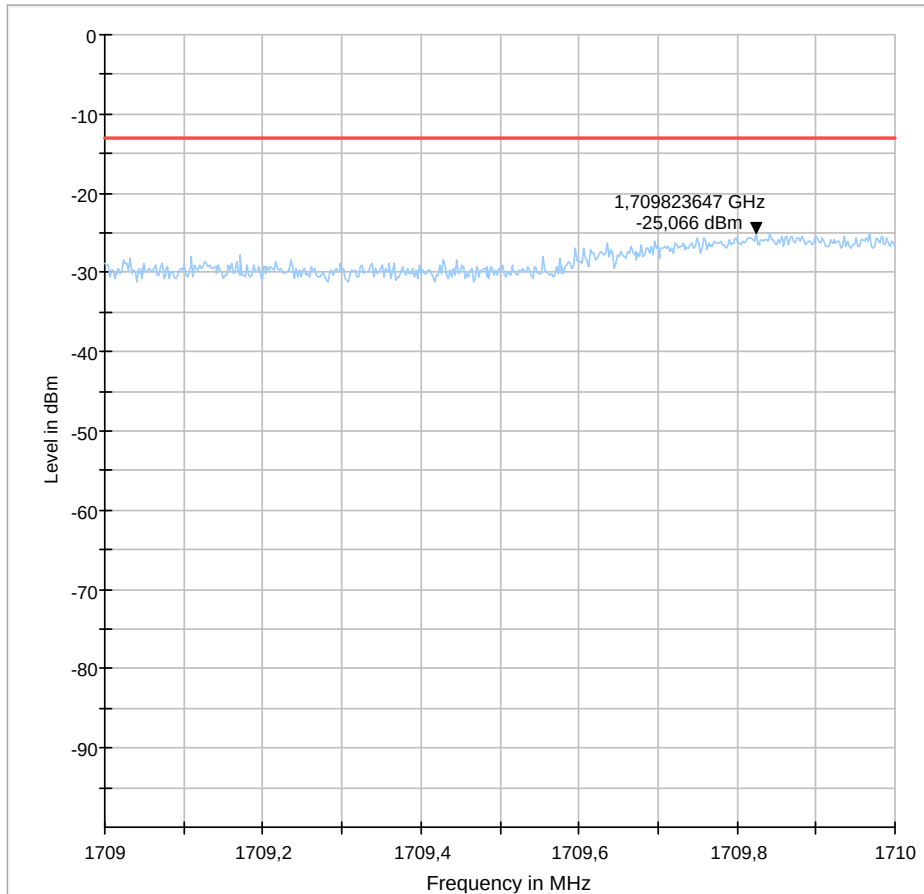
Common Information

Test Description:	Band-Edge - Radiated Spurious Emissions LTE Band 4
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 27
Operating Mode:	UE allocated channel 20050
Environmental Conditions:	Humidity: 49%rH; Temperature: 21°C
Operator:	SLo
Comment:	EUT - laying position

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1231-0
-----	-----
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



1.13.4. Low Band-Edge, channel 20050, 16-QAM, 100RBs

9.49b_BE_R_Ch20050_100RB_BW20_QAM_Standing

Common Information

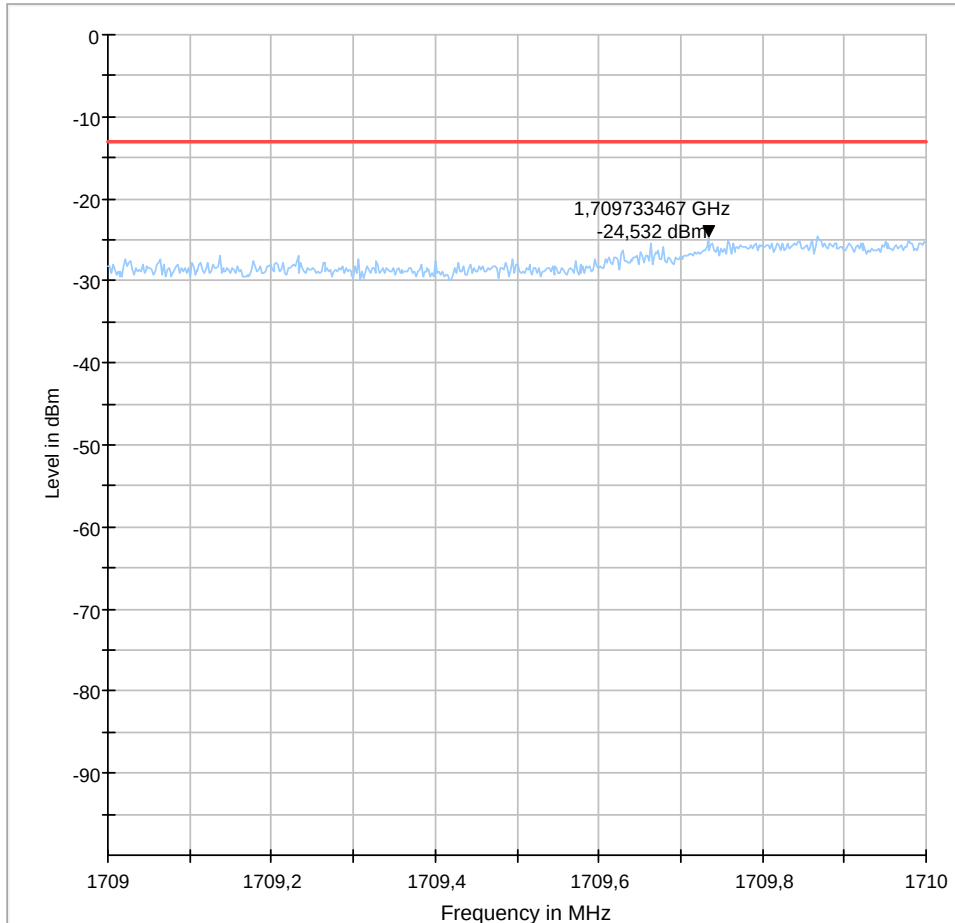
Test Description:	Band-Edge - Radiated Spurious Emissions LTE Band 4
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 27
Operating Mode:	UE allocated channel 20050
Environmental Conditions:	Humidity: 35%rH; Temperature: 20°C
Operator:	RI
Remarks:	EUT - standing position

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1231-0
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446

Connected Interfaces: Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256),Multiband antenna
 Power Supply: 12VDC
 Comments: -

Full Spectrum



9.49b_BE_R_Ch20050_100RB_BW20_QAM_Laying

Common Information

Test Description: Band-Edge - Radiated Spurious Emissions LTE Band 4
 Test Site Location: CETECOM GmbH Essen
 Test Site: Fully Anechoic Room (FAR)
 Test Standard: FCC Part 27
 Operating Mode: UE allocated channel 20050
 Environmental Conditions: Humidity: 49%rH; Temperature: 21°C
 Operator: SLo
 Comment: EUT - laying position

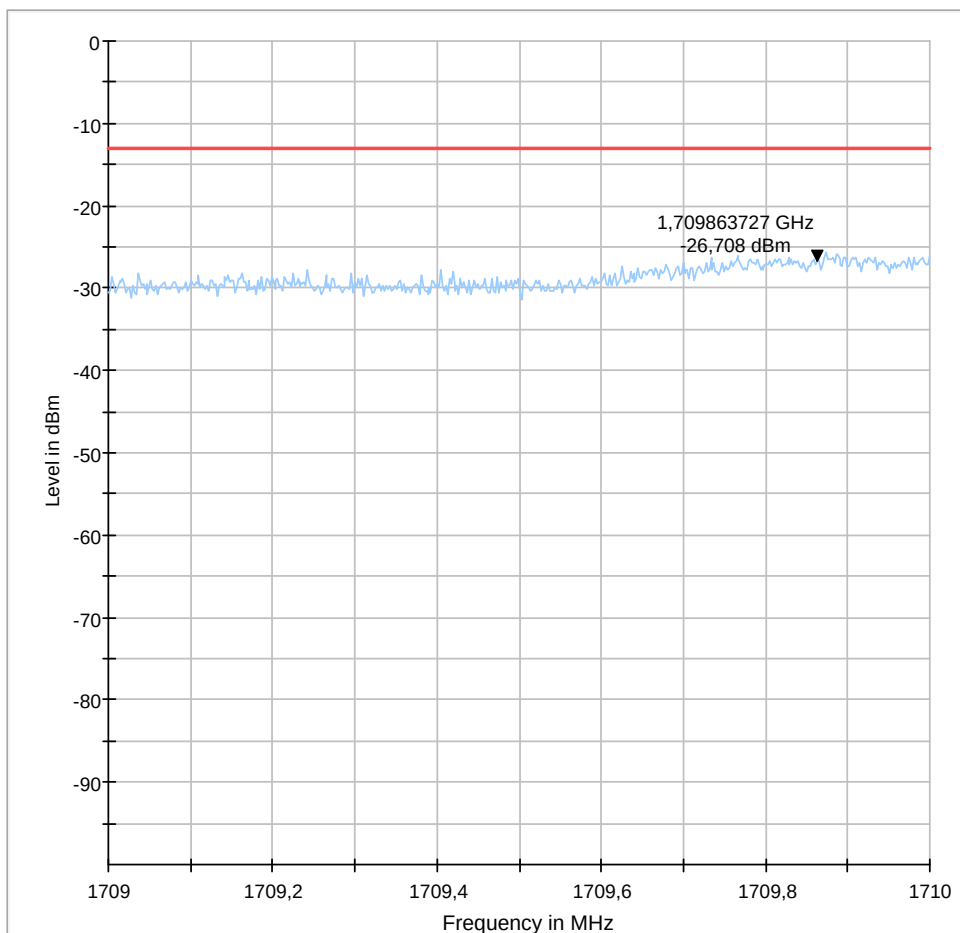
EUT Information

Manufacturer: peiker acustic GmbH & Co. KG
 EUT: V1231-0

 HW version: V1231-0_Ver.1
 SW version: MPSS.TH.2.0.2-00256
 Serial number: 004402580040446
 Connected Interfaces: Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256),Multiband antenna
 LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables

Power Supply: 12VDC
Comments: -

Full Spectrum



1.13.5. High Band-Edge, channel 20350, QPSK, 1RB on high position

9.41a_BE_R_Ch20350_1RB_BW_10_QPSK_Standing

Common Information

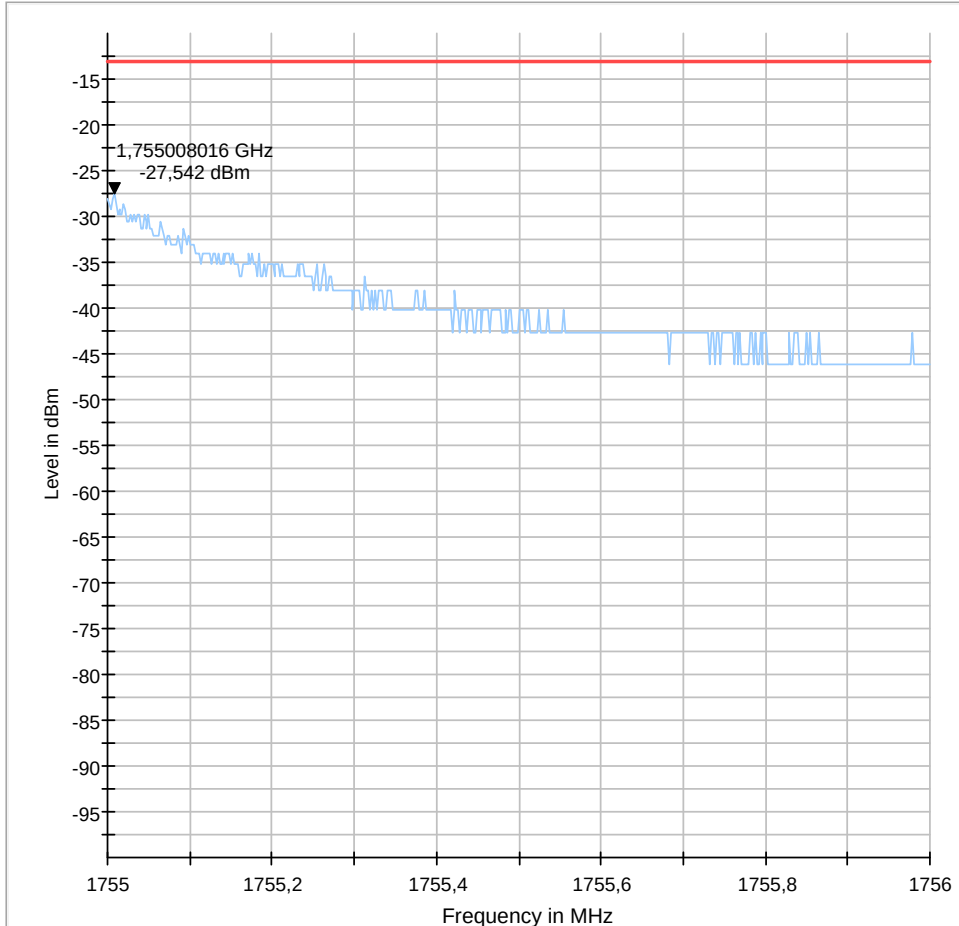
Test Description:	Band-Edge - Radiated Spurious Emissions LTE Band 4
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 27
Operating Mode:	UE allocated channel 20350
Environmental Conditions:	Humidity: 35%rH; Temperature: 20°C
Operator:	RI
Remarks:	EUT - standing position

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1231-0
-----	-----
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446

Connected Interfaces: Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256),Multiband antenna
 Power Supply: 12VDC
 Comments: -

Full Spectrum



9.41a_BE_R_Ch20350_1RB_BW_10_QPSK_Laying

Common Information

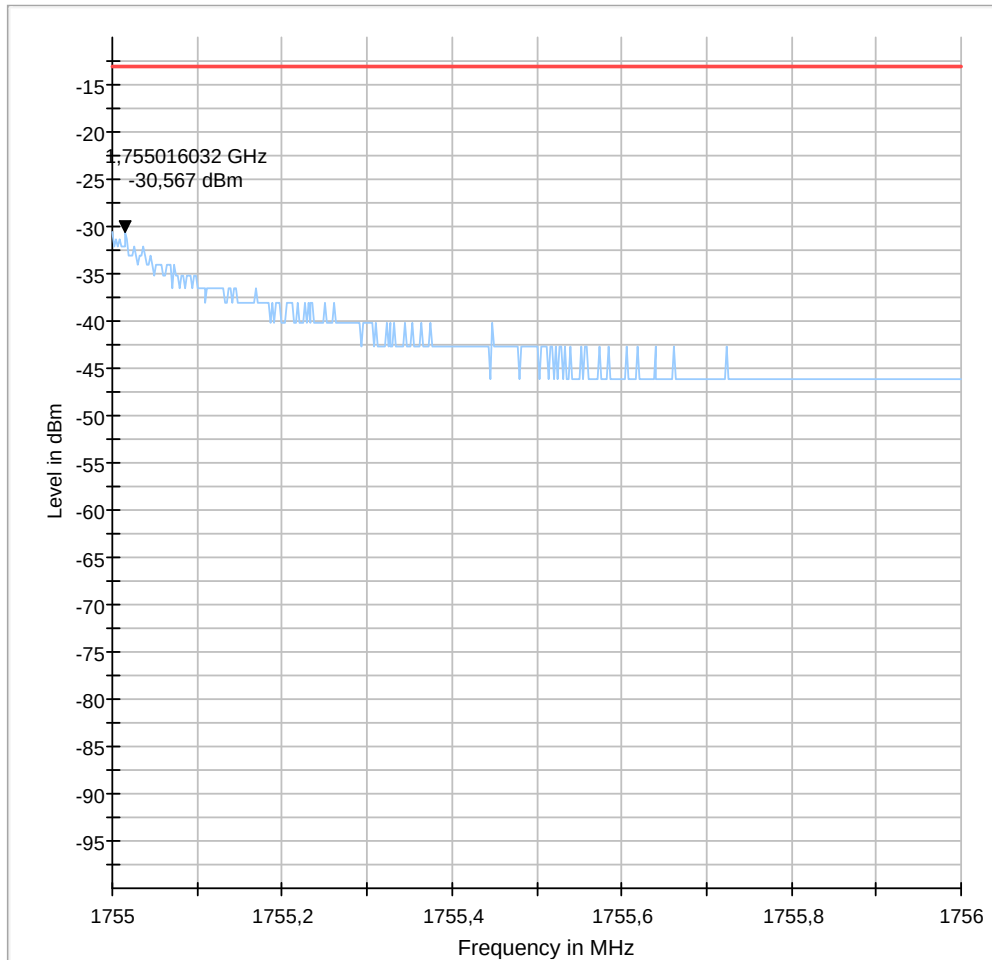
Test Description: Band-Edge - Radiated Spurious Emissions LTE Band 4
 Test Site Location: CETECOM GmbH Essen
 Test Site: Fully Anechoic Room (FAR)
 Test Standard: FCC Part 27
 Operating Mode: UE allocated channel 20350
 Environmental Conditions: Humidity: 49%rH; Temperature: 21°C
 Operator: SLo
 Comment: EUT - laying position

EUT Information

Manufacturer: peiker acoustic GmbH & Co. KG
 EUT: V1231-0
 HW version: V1231-0_Ver.1
 SW version: MPSS.TH.2.0.2-00256
 Serial number: 004402580040446
 Connected Interfaces: Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256),Multiband antenna
 LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables

Power Supply: 12VDC
Comments: -

Full Spectrum



1.13.6. High Band-Edge, channel 20350, 16-QAM, 1RB on high position

9.41b_BE_R_Ch20350_1RB_BW_10_QAM_Standing

Common Information

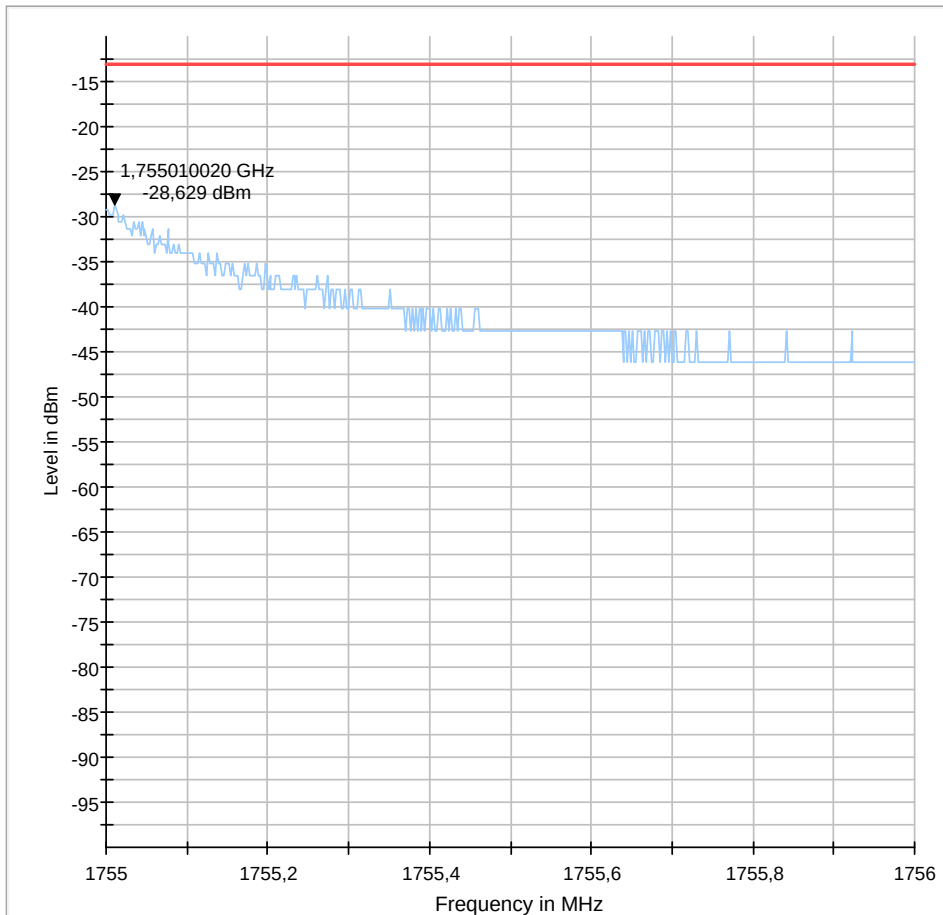
Test Description:	Band-Edge - Radiated Spurious Emissions LTE Band 4
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 27
Operating Mode:	UE allocated channel 20350
Environmental Conditions:	Humidity: 35%rH; Temperature: 20°C
Operator:	RI's
Remarks:	EUT - standing position

EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG
EUT:	V1231-0
-----	-----
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256

Serial number: 004402580040446
 Connected Interfaces: Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
 Power Supply: 12VDC
 Comments: -

Full Spectrum



9.41b_BE_R_Ch20350_1RB_BW_10_QAM_Laying

Common Information

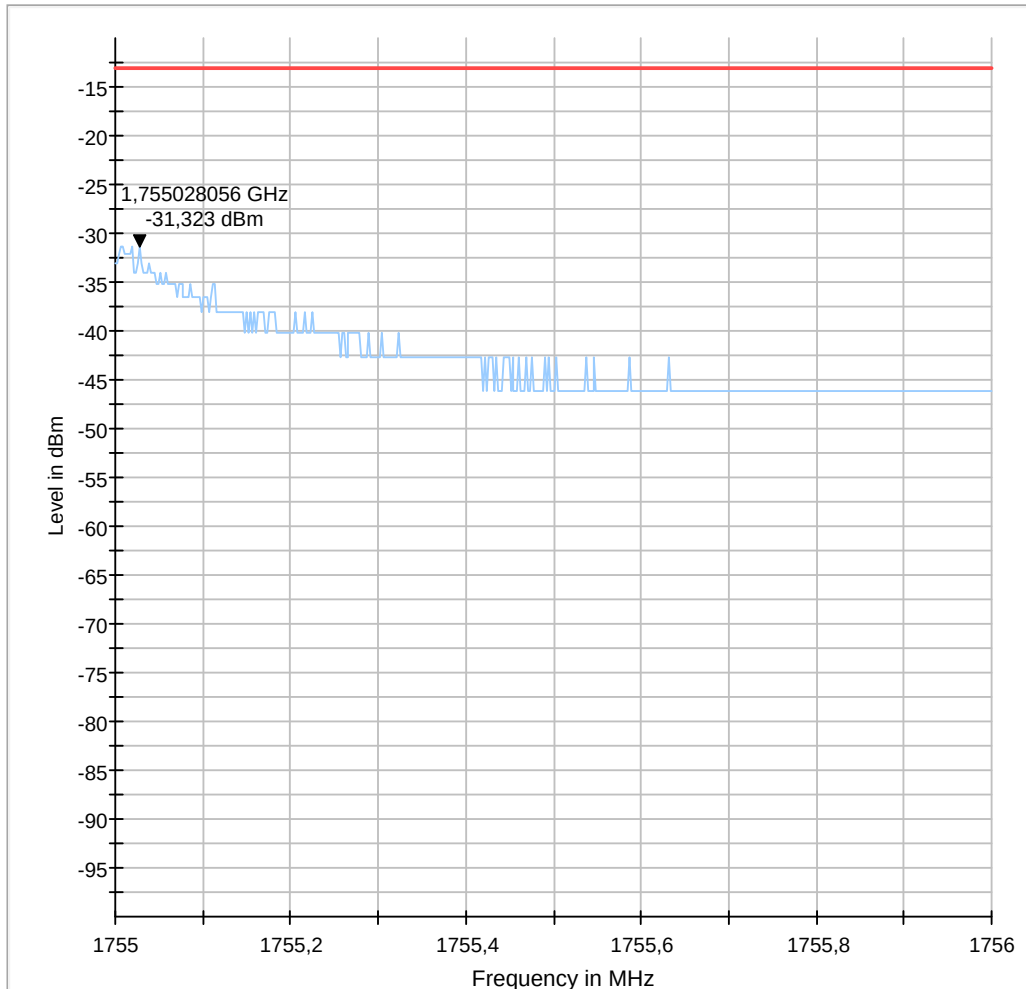
Test Description:	Band-Edge - Radiated Spurious Emissions LTE Band 4
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 27
Operating Mode:	UE allocated channel 20350
Environmental Conditions:	Humidity: 49%rH; Temperature: 21°C
Operator:	SLo
Comment:	EUT - laying position

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1231-0
-----	-----
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446

Connected Interfaces: Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna
 Power Supply: LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
 Comments: 12VDC
 -

Full Spectrum



1.13.7. High Band-Edge, channel 20350, QPSK, 50RBs

9.42a_BE_R_Ch20350_50RB_BW_10_QPSK_Standing

Common Information

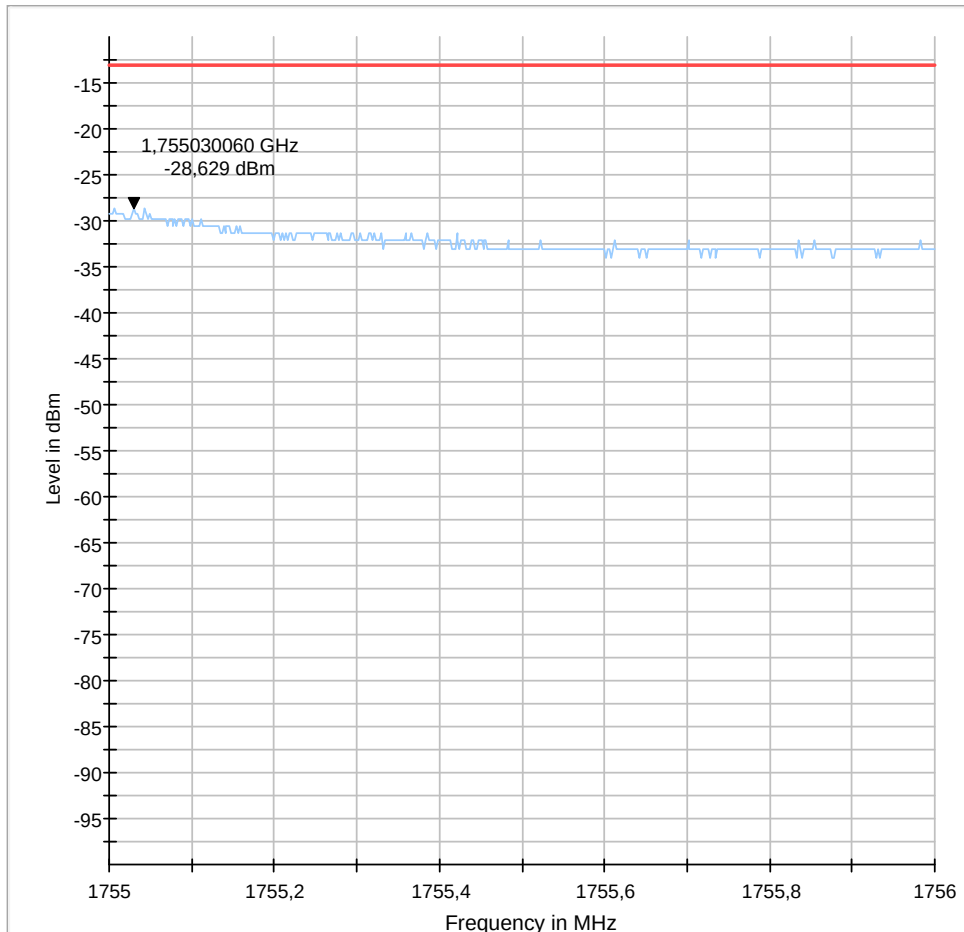
Test Description: Band-Edge - Radiated Spurious Emissions LTE Band 4
 Test Site Location: CETECOM GmbH Essen
 Test Site: Fully Anechoic Room (FAR)
 Test Standard: FCC Part 27
 Operating Mode: UE allocated channel 20350
 Environmental Conditions: Humidity: 35%rH; Temperature: 20°C
 Operator: RIs
 Remarks: EUT - standing position

EUT Information

Manufacturer: peiker acoustic GmbH & Co. KG
 EUT: V1231-0

HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



9.42a_BE_R_Ch20350_50RB_BW_10_QPSK_Laying

Common Information

Test Description:	Band-Edge - Radiated Spurious Emissions LTE Band 4
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 27
Operating Mode:	UE allocated channel 20350
Environmental Conditions:	Humidity: 49%rH; Temperature: 21°C
Operator:	SLo
Comment:	EUT - laying position

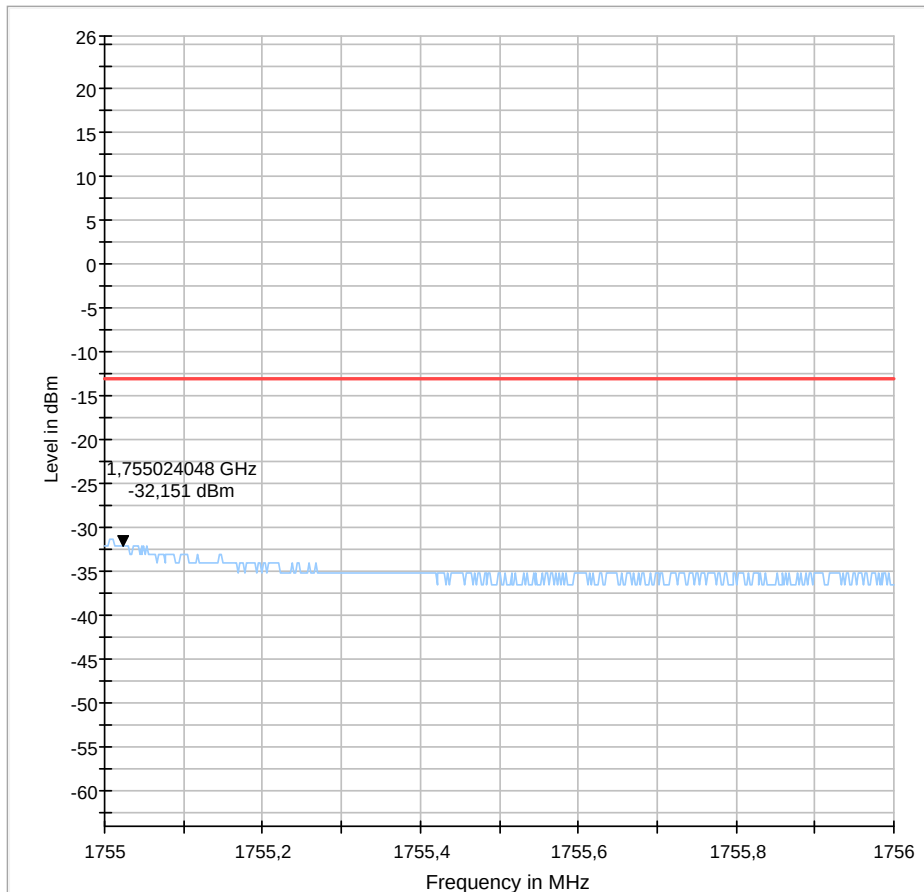
EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1231-0

HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256

Serial number: 004402580040446
 Connected Interfaces: Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
 Power Supply: 12VDC
 Comments: -

Full Spectrum



1.13.8. High Band-Edge, channel 20350, 16-QAM, 50RBs

9.42b_BE_R_Ch20350_50RB_BW_10_QAM_Standing

Common Information

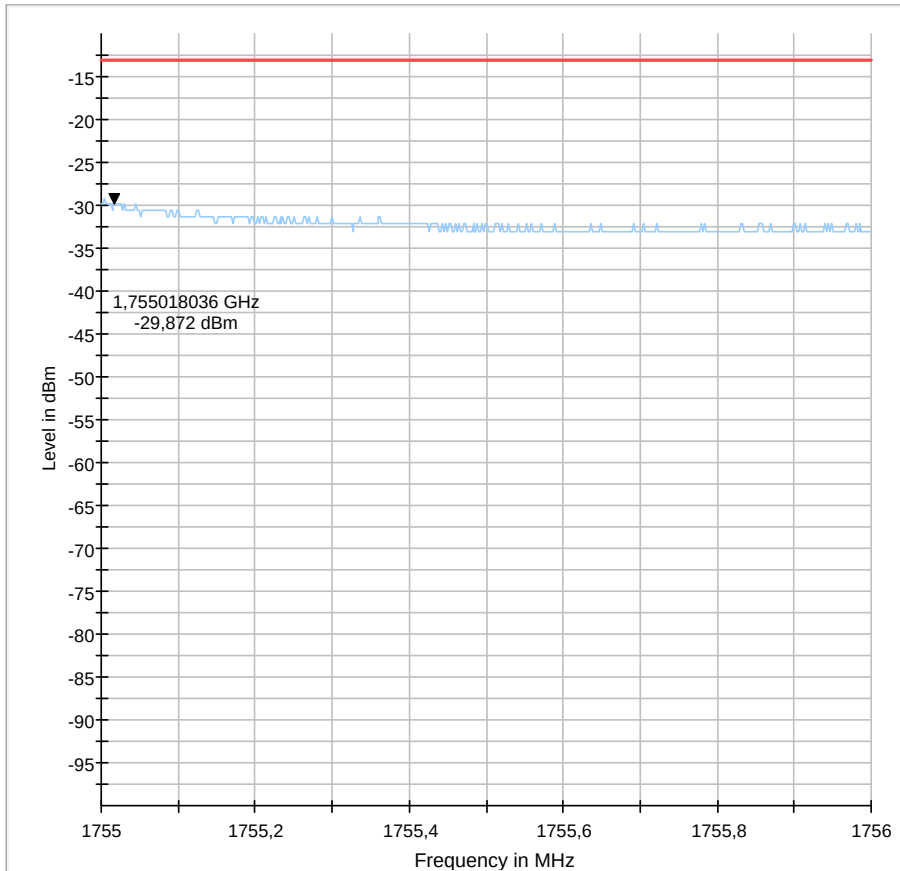
Test Description:	Band-Edge - Radiated Spurious Emissions LTE Band 4
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 27
Operating Mode:	UE allocated channel 20350
Environmental Conditions:	Humidity: 35%rH; Temperature: 20°C
Operator:	RLS
Remarks:	EUT - standing position

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1231-0

HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



9.42b_BE_R_Ch20350_50RB_BW_10_QAM_Laying

Common Information

Test Description:	Band-Edge - Radiated Spurious Emissions LTE Band 4
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 27
Operating Mode:	UE allocated channel 20350
Environmental Conditions:	Humidity: 49%rH; Temperature: 21°C
Operator:	SLo
Comment:	EUT - laying position

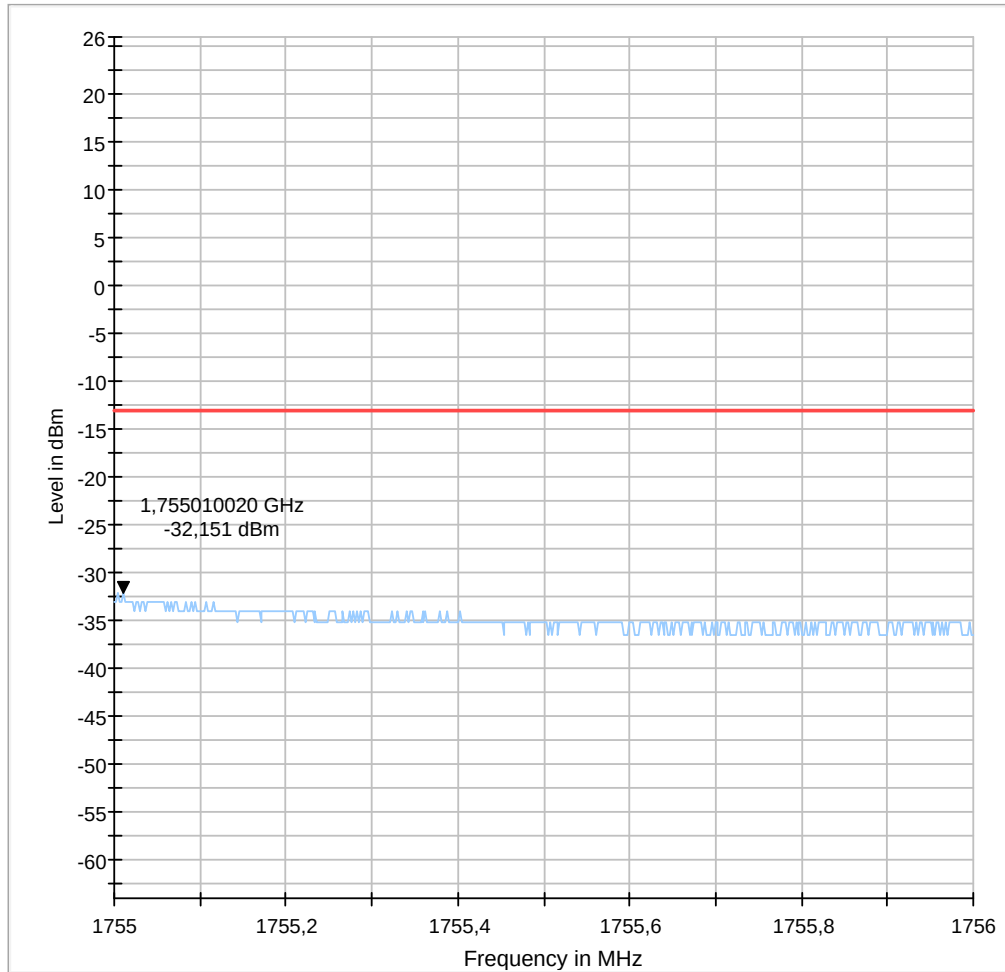
EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1231-0

HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256

Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



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

1.14.1. Low Band-Edge

1.14.2. Channel 20425, QPSK, 1RBs

9.508a_BE_R_Ch20425_1RB_BW5_QPSK_Laying

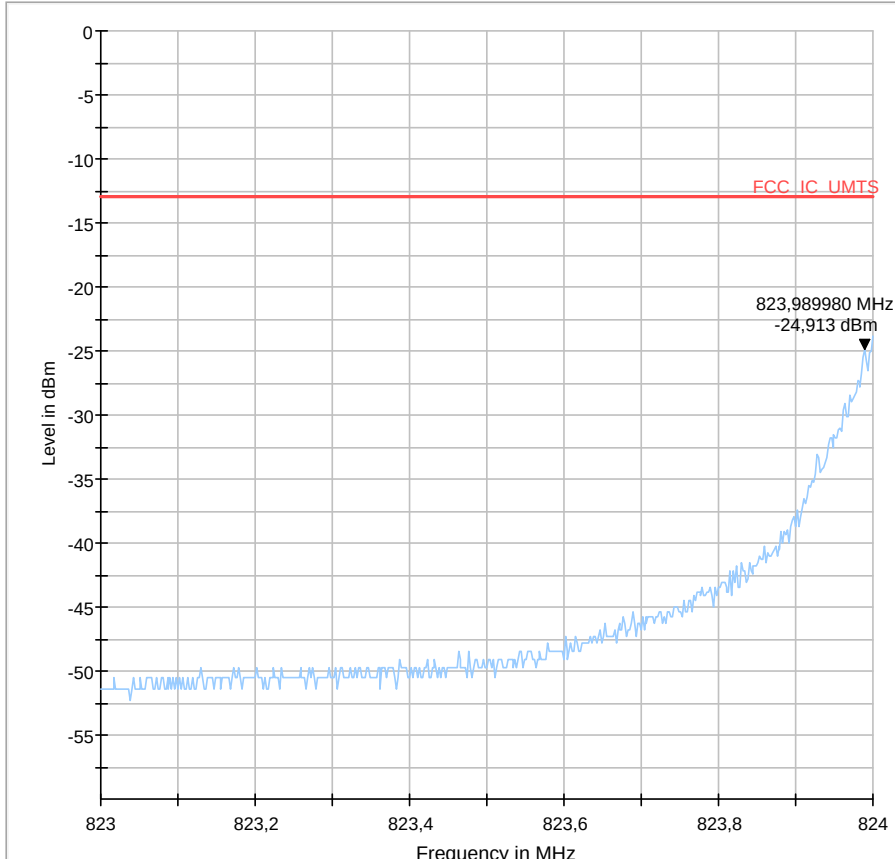
Common Information

Test Description:	Band-Edge - Radiated Spurious Emissions LTE Band V
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22
Operating Mode:	UE allocated channel 20425
Environmental Conditions:	Humidity: 35%rH; Temperature: 20°C
Operator:	Klv
Remarks:	EUT - laying position

EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG
EUT:	V1231-0
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



9.508a_BE_R_Ch20425_1RB_BW5_QPSK_Standing

Common Information

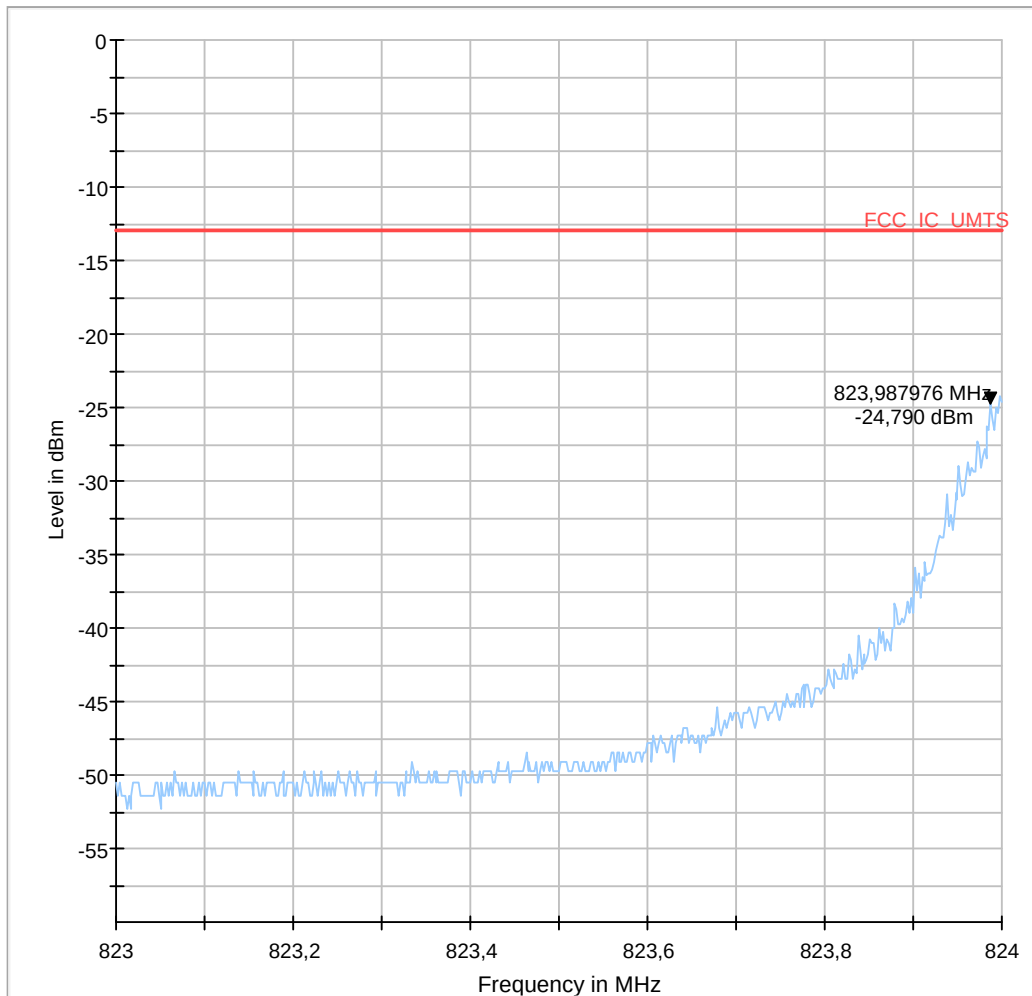
Test Description:	Band-Edge - Radiated Spurious Emissions LTE Band V
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22
Operating Mode:	UE allocated channel 20425
Environmental Conditions:	Humidity: 35%rH; Temperature: 20°C
Operator:	RI5
Remarks:	EUT - standing position

EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG
EUT:	V1231-0

HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



1.14.3. Channel 20425, 16-QAM, 1RBs

9.508b_BE_R_Ch20425_1RB_BW5_QAM_Laying

Common Information

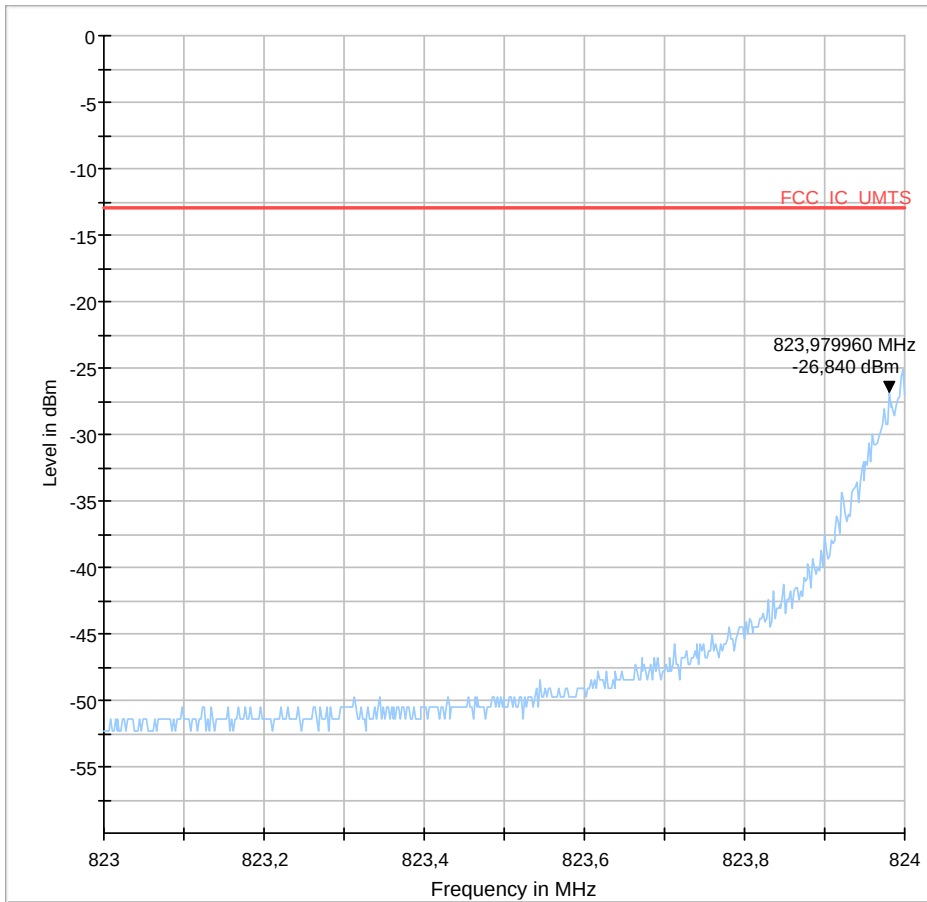
Test Description:	Band-Edge - Radiated Spurious Emissions LTE Band V
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22
Operating Mode:	UE allocated channel 20425
Environmental Conditions:	Humidity: 35%rH; Temperature: 20°C
Operator:	Kiv
Remarks:	EUT - laying position

EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG
EUT:	V1231-0
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables

Power Supply: 12VDC
Comments: -

Full Spectrum



9.508b_BE_R_Ch20425_1RB_BW5_QAM_Standing

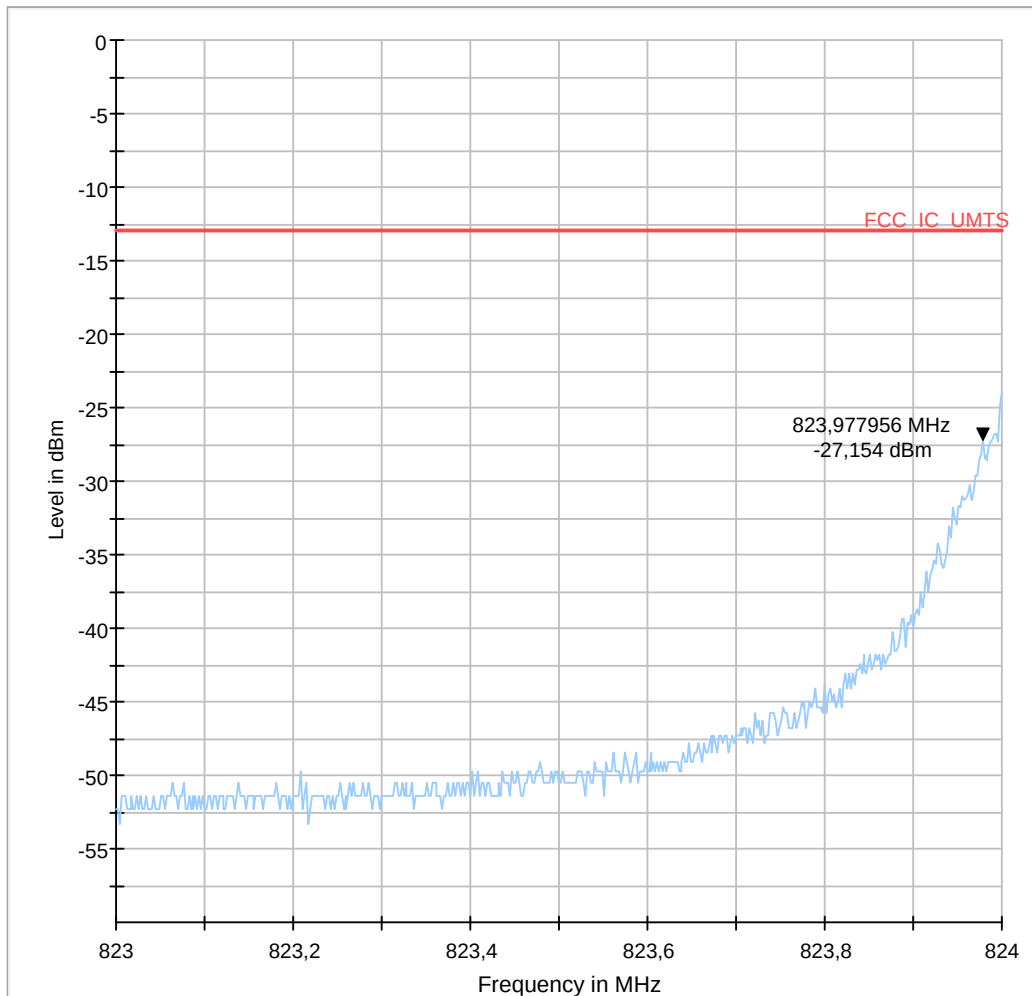
Common Information

Test Description:	Band-Edge - Radiated Spurious Emissions LTE Band V
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22
Operating Mode:	UE allocated channel 20425
Environmental Conditions:	Humidity: 35%rH; Temperature: 20°C
Operator:	RI
Remarks:	EUT - standing position

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1231-0
-----	-----
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



1.14.4. Channel 20425, QPSK, 25RBs

9.510a_BE_R_Ch20425_25RB_BW5_QPSK_Laying

Common Information

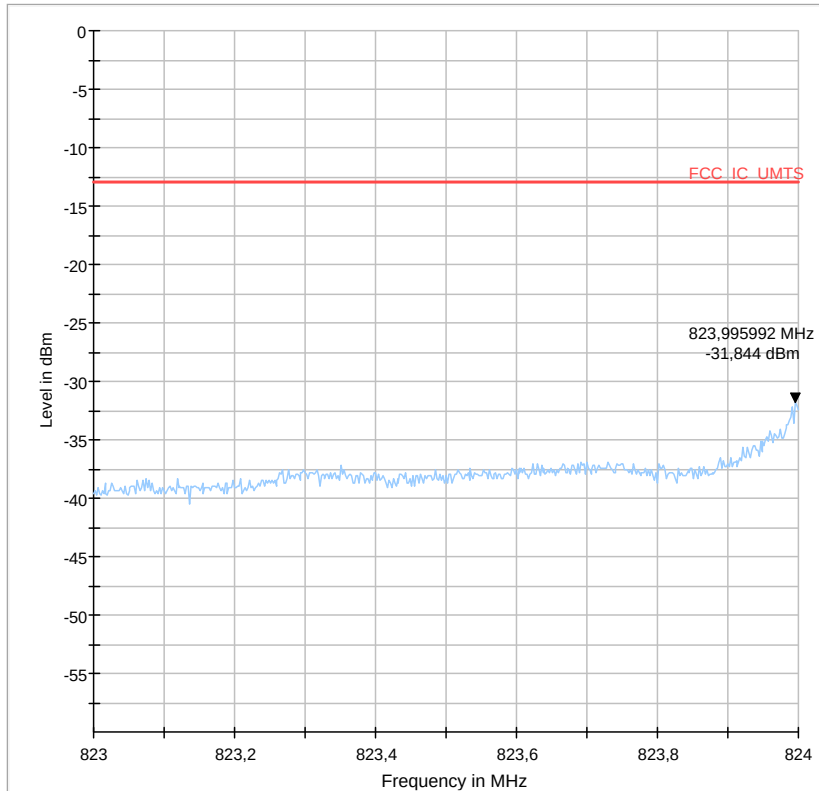
Test Description:	Band-Edge - Radiated Spurious Emissions LTE Band V
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22
Operating Mode:	UE allocated channel 20425
Environmental Conditions:	Humidity: 35%rH; Temperature: 20°C
Operator:	Kiv
Remarks:	EUT - laying position

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1231-0
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446

Connected Interfaces: Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna
 Power Supply: 12VDC
 Comments: -

Full Spectrum



9.510a_BE_R_Ch20425_25RB_BW5_QPSK_Standing

Common Information

Test Description:	Band-Edge - Radiated Spurious Emissions LTE Band V
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22
Operating Mode:	UE allocated channel 20425
Environmental Conditions:	Humidity: 35%rH; Temperature: 20°C
Operator:	RI5
Remarks:	EUT - standing position

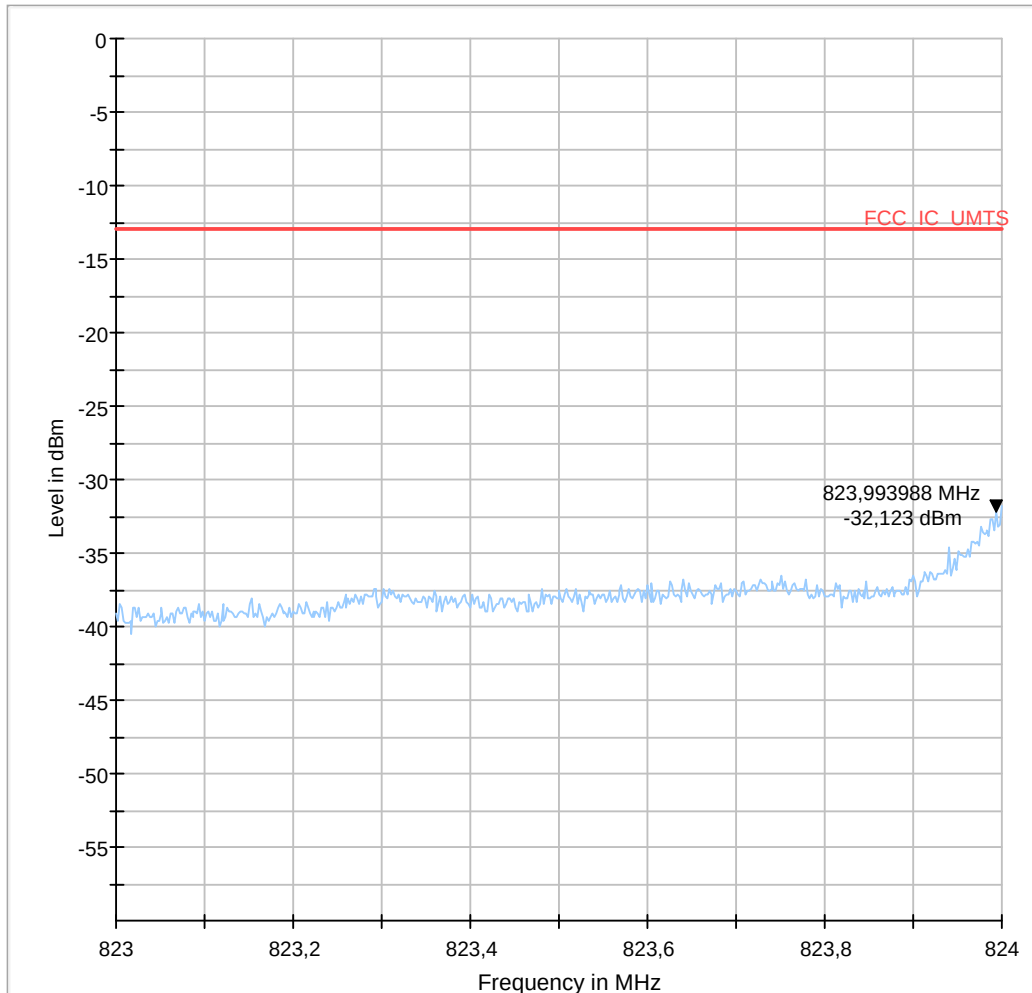
EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1231-0

HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446

Connected Interfaces: Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna
 Power Supply: LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
 Comments: 12VDC
 -

Full Spectrum



1.14.5. Channel 20425, 16-QAM, 25RBs

9.510b_BE_R_Ch20425_25RB_BW5_QAM_Laying

Common Information

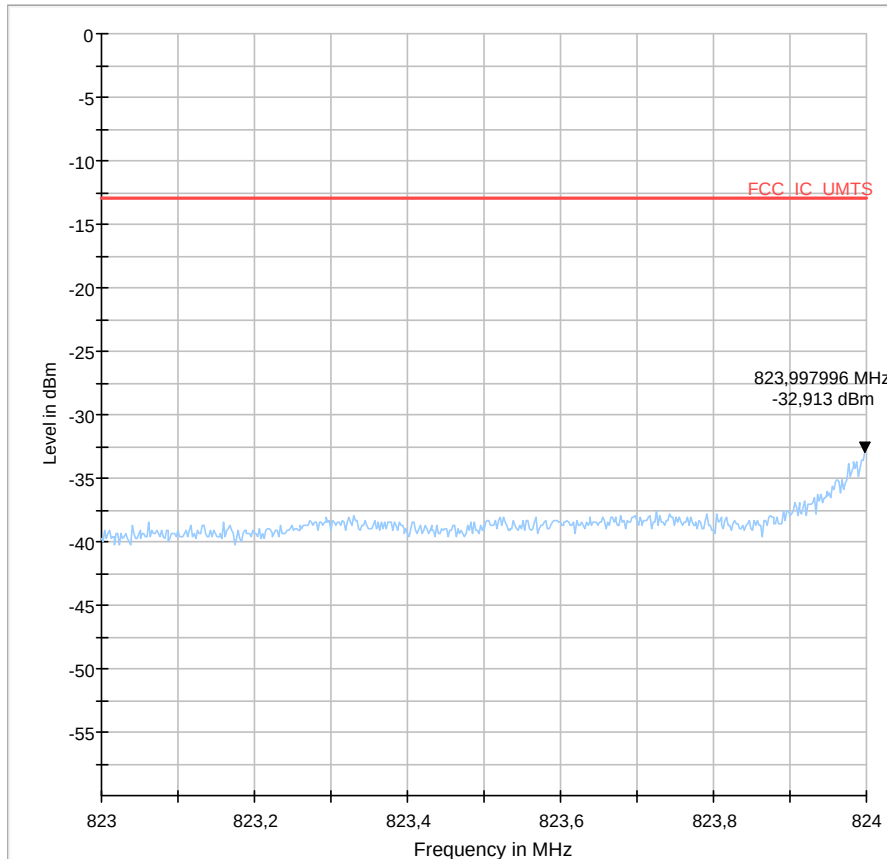
Test Description:	Band-Edge - Radiated Spurious Emissions LTE Band V
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22
Operating Mode:	UE allocated channel 20425
Environmental Conditions:	Humidity: 35%rH; Temperature: 20°C
Operator:	Klv
Remarks:	EUT - laying position

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1231-0

-----	-----
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



9.510b_BE_R_Ch20425_25RB_BW5_QAM_Standing

Common Information

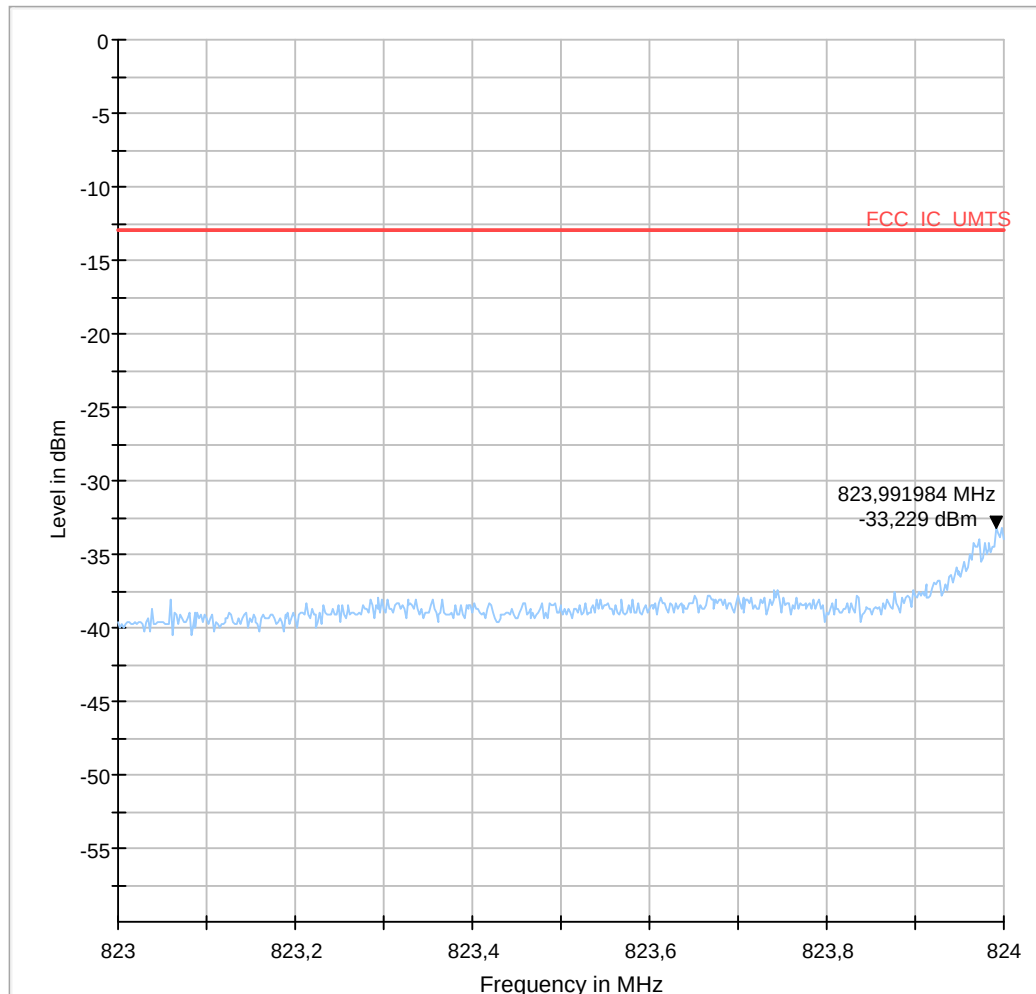
Test Description:	Band-Edge - Radiated Spurious Emissions LTE Band V
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22
Operating Mode:	UE allocated channel 20425
Environmental Conditions:	Humidity: 35%rH; Temperature: 20°C
Operator:	RS
Remarks:	EUT - standing position

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1231-0
-----	-----

HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



1.14.6. High Band-Edge

1.14.7. Channel 20643, QPSK, 1RBs

9.502a_BE_R_Ch20643_1RB_BW_1_4_QPSK_Laying

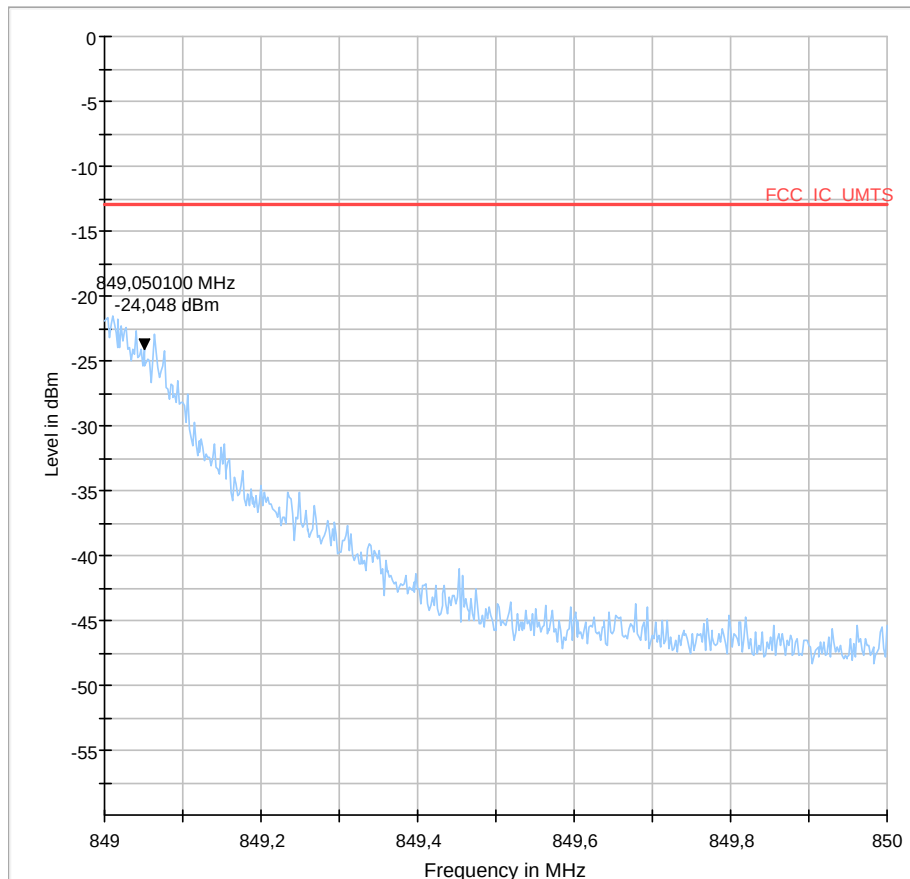
Common Information

Test Description:	Band-Edge - Radiated Spurious Emissions LTE Band V
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22
Operating Mode:	UE allocated channel 20643
Environmental Conditions:	Humidity: 35%rH; Temperature: 20°C
Operator:	Klv
Remarks:	EUT - laying position

EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG
EUT:	V1231-0
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



9.502a_BE_R_Ch20643_1RB_BW_1_4_QPSK_Standing

Common Information

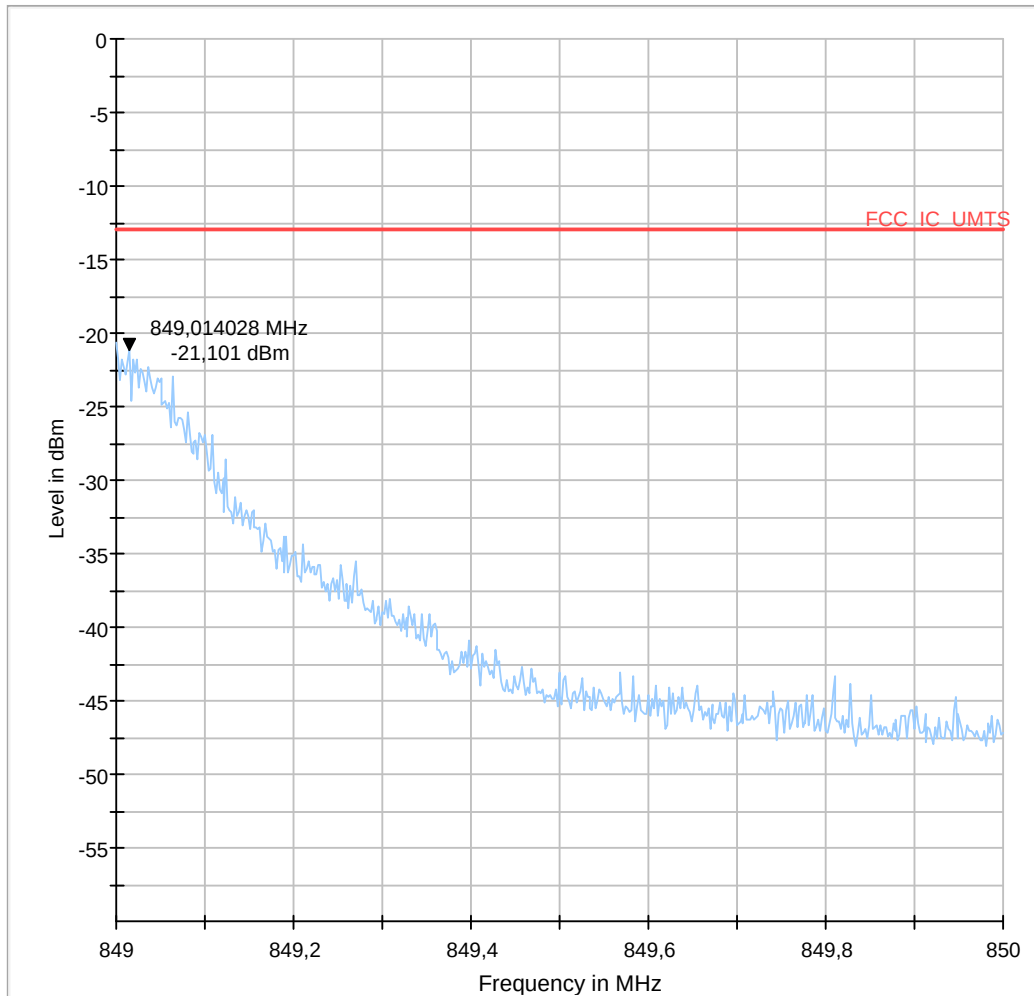
Test Description:	Band-Edge - Radiated Spurious Emissions LTE Band V
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22
Operating Mode:	UE allocated channel 20643
Environmental Conditions:	Humidity: 35%rH; Temperature: 20°C
Operator:	RS
Remarks:	EUT - standing position

EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG
---------------	------------------------------

EUT:	V1231-0
-----	-----
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



1.14.8. Channel 20643, 16-QAM, 1RBs

9.502b_BE_R_Ch20643_1RB_BW_1_4_QAM_Laying

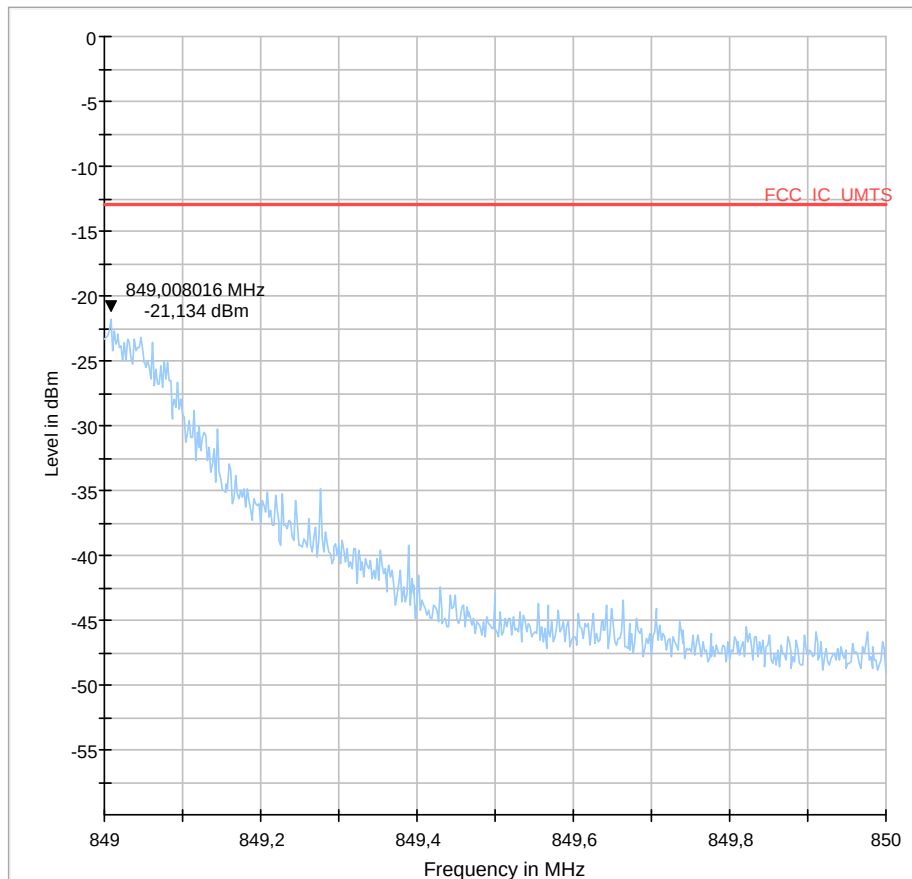
Common Information

Test Description:	Band-Edge - Radiated Spurious Emissions LTE Band V
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22
Operating Mode:	UE allocated channel 20643
Environmental Conditions:	Humidity: 35%rH; Temperature: 20°C
Operator:	Klv
Remarks:	EUT - laying position

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1231-0
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



9.502b_BE_R_Ch20643_1RB_BW_1_4_QAM_Standing

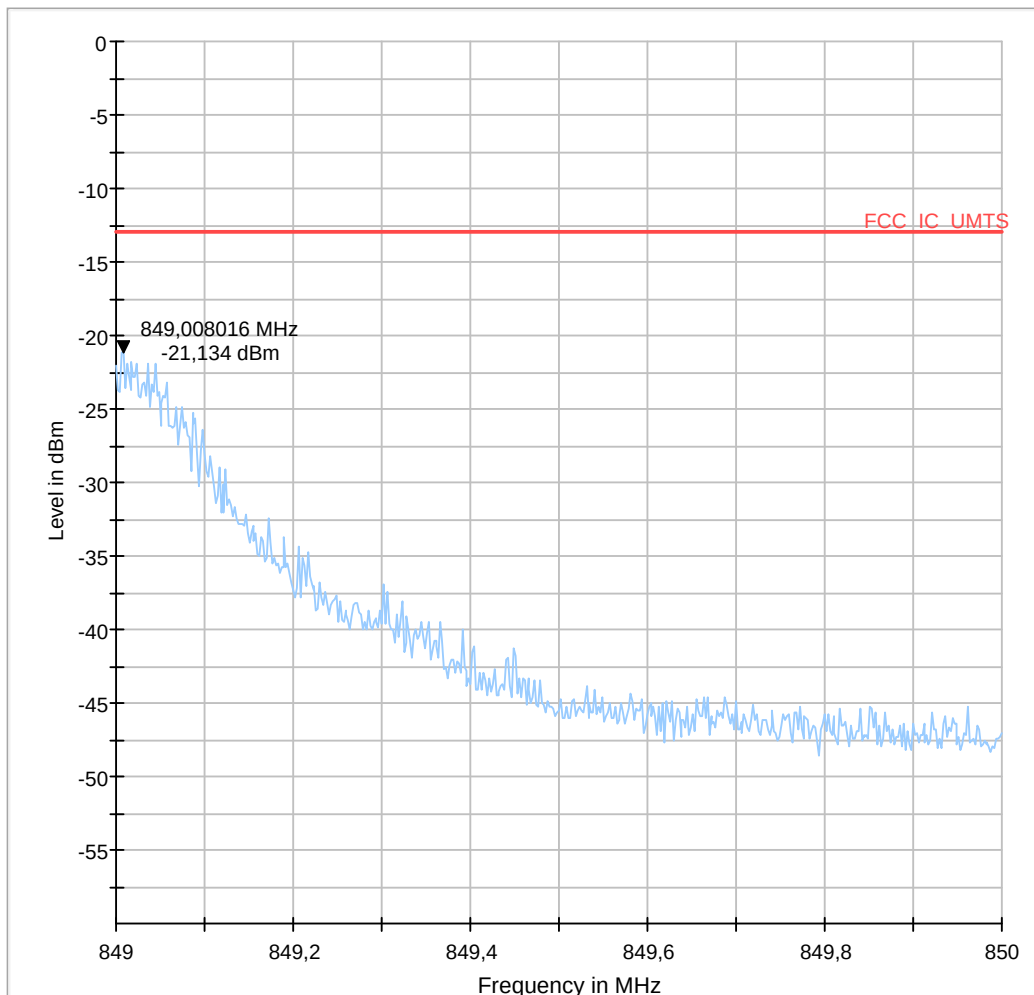
Common Information

Test Description:	Band-Edge - Radiated Spurious Emissions LTE Band V
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22
Operating Mode:	UE allocated channel 20643
Environmental Conditions:	Humidity: 35%rH; Temperature: 20°C
Operator:	RI
Remarks:	EUT - standing position

EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG
EUT:	V1231-0
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



1.14.9. Channel 20643, QPSK, 6RBs

9.503a_BE_R_Ch20643_6RB_1_4_QPSK_Laying

Common Information

Test Description:	Band-Edge - Radiated Spurious Emissions LTE Band V
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22
Operating Mode:	UE allocated channel 20643

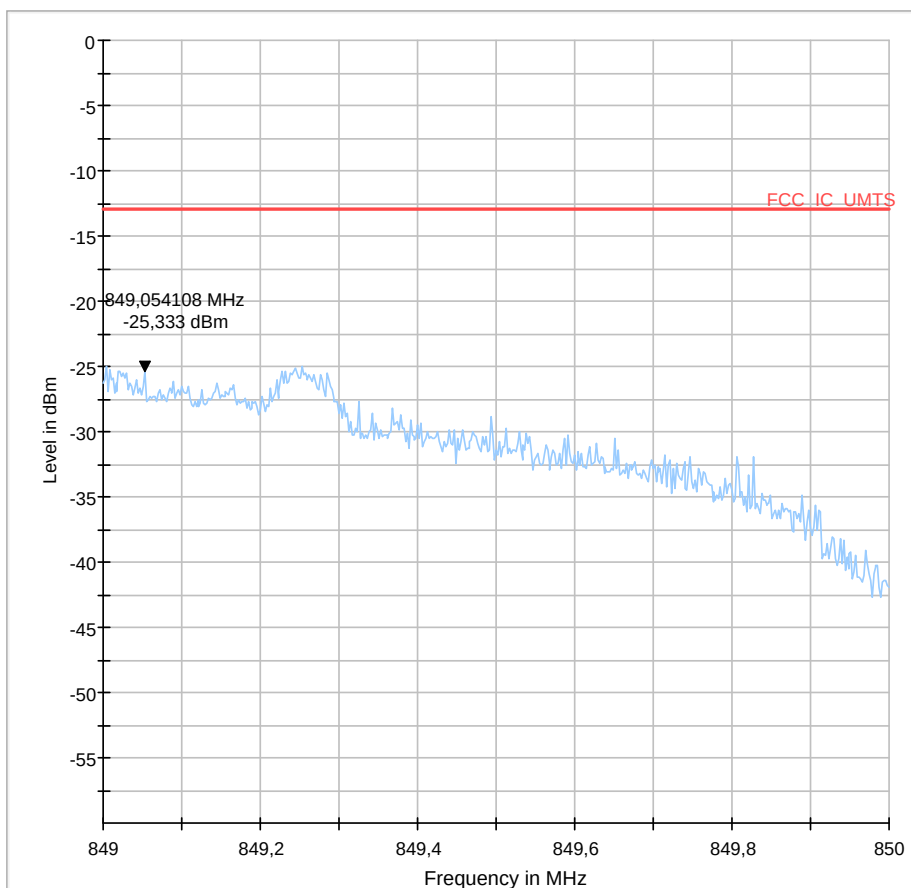
Environmental Conditions:	Humidity: 35%rH; Temperature: 20°C
Operator:	Klv
Remarks:	EUT - laying position

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1231-0

HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



9.503a_BE_R_Ch20643_6RB_1_4_QPSK_Standing

Common Information

Test Description:	Band-Edge - Radiated Spurious Emissions LTE Band V
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22
Operating Mode:	UE allocated channel 20643
Environmental Conditions:	Humidity: 35%rH; Temperature: 20°C

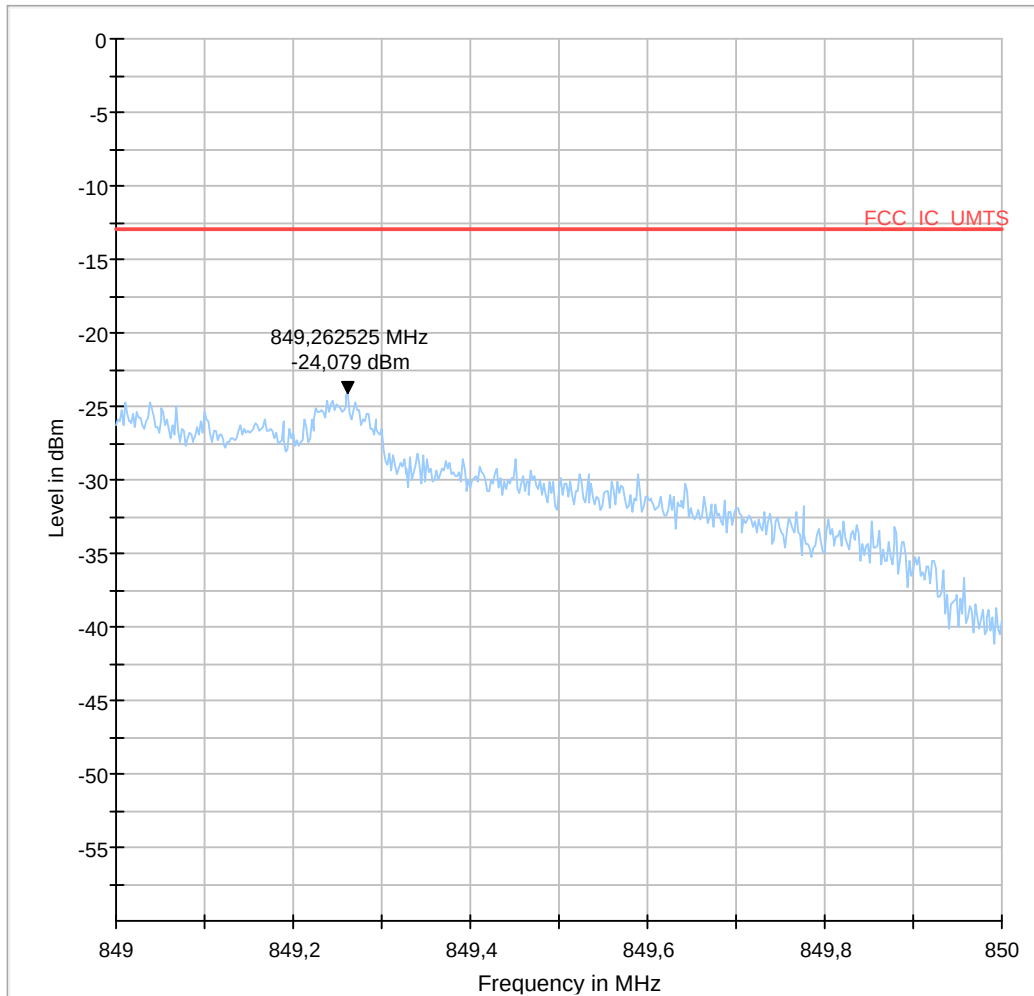
Operator: RIs
Remarks: EUT - standing position

EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG
EUT:	V1231-0

HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



1.14.10. Channel 20643, 16-QAM, 6RBs

9.503b_BE_R_Ch20643_6RB_BW_1_4_QAM_Laying

Common Information

Test Description:	Band-Edge - Radiated Spurious Emissions LTE Band V
Test Site Location:	CETECOM GmbH Essen

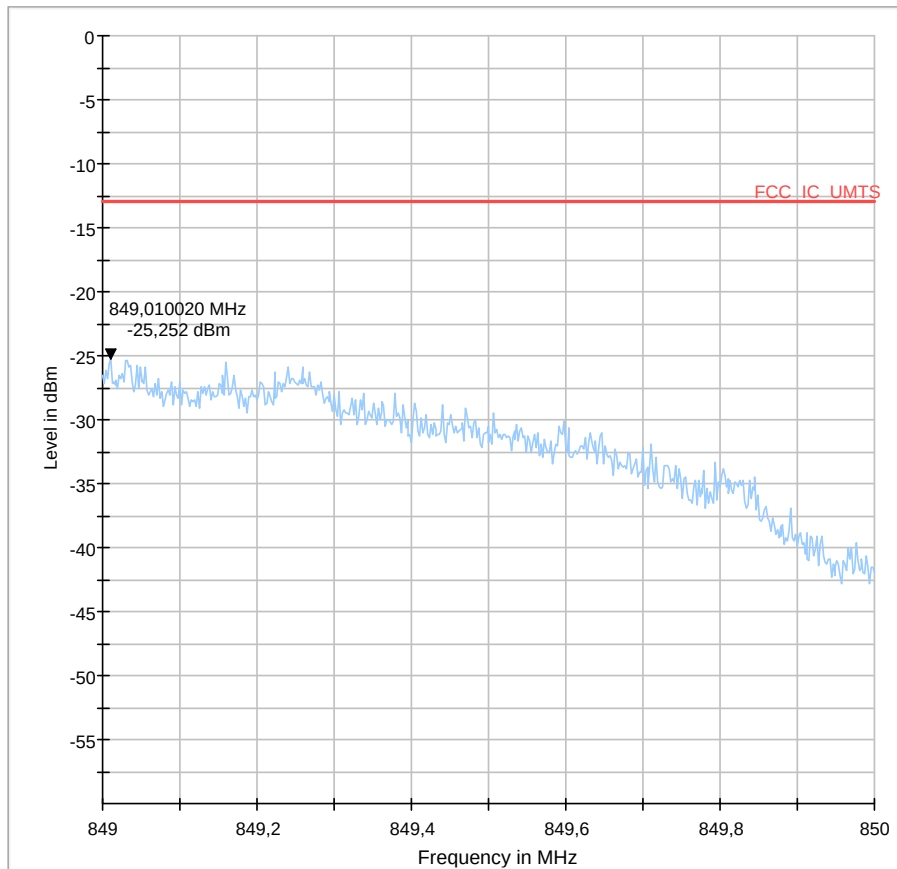
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22
Operating Mode:	UE allocated channel 20643
Environmental Conditions:	Humidity: 35%rH; Temperature: 20°C
Operator:	Klv
Remarks:	EUT - laying position

EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG
EUT:	V1231-0

HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



9.503b_BE_R_Ch20643_6RB_BW_1_4_QAM_Standing

Common Information

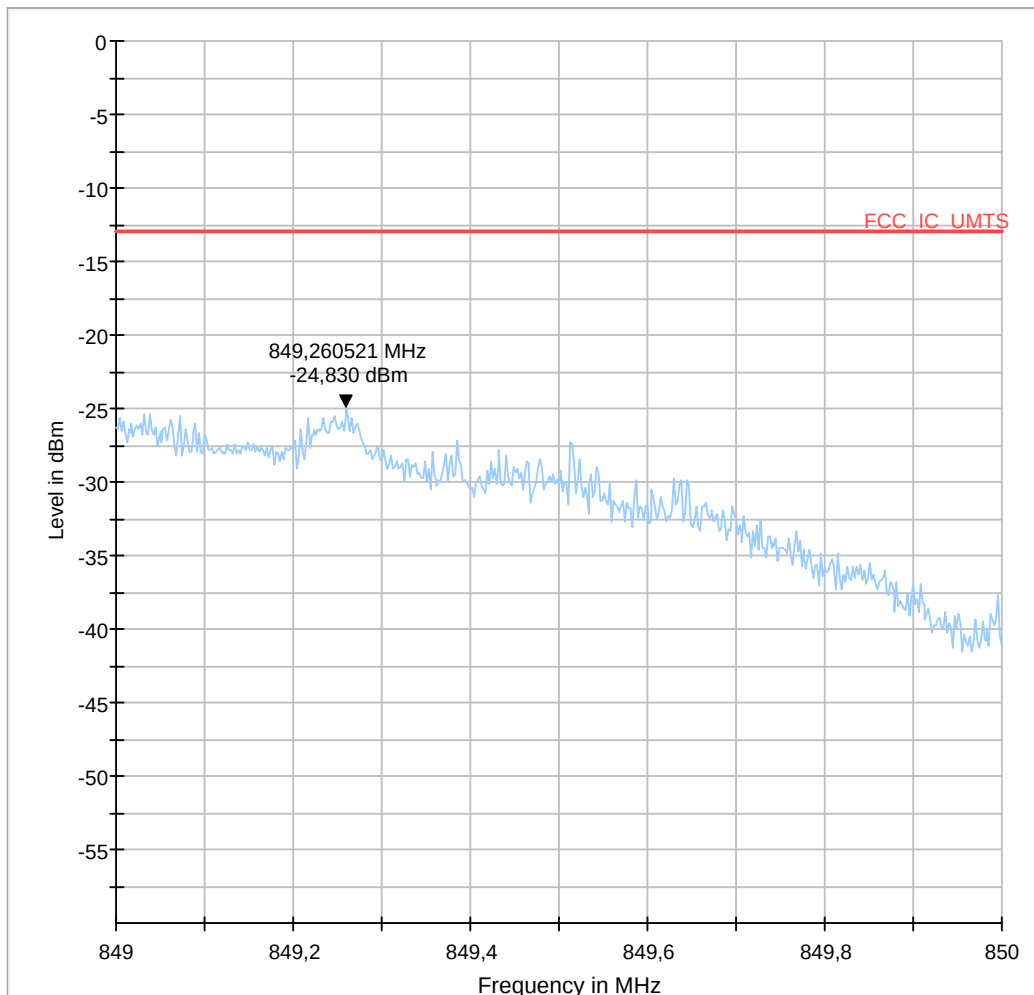
Test Description:	Band-Edge - Radiated Spurious Emissions LTE Band V
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)

Test Standard:	FCC Part 22
Operating Mode:	UE allocated channel 20643
Environmental Conditions:	Humidity: 35%rH; Temperature: 20°C
Operator:	RLS
Remarks:	EUT - standing position

EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG
EUT:	V1231-0
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



1.15. Radiated emissions – band-edge (LTE Band 12)

1.15.1. Low Band-Edge

1.15.2. Channel 23035, 16-QAM, 1RBs

9.55a_BE_R_Ch_23035_1RB_BW_5_QAM

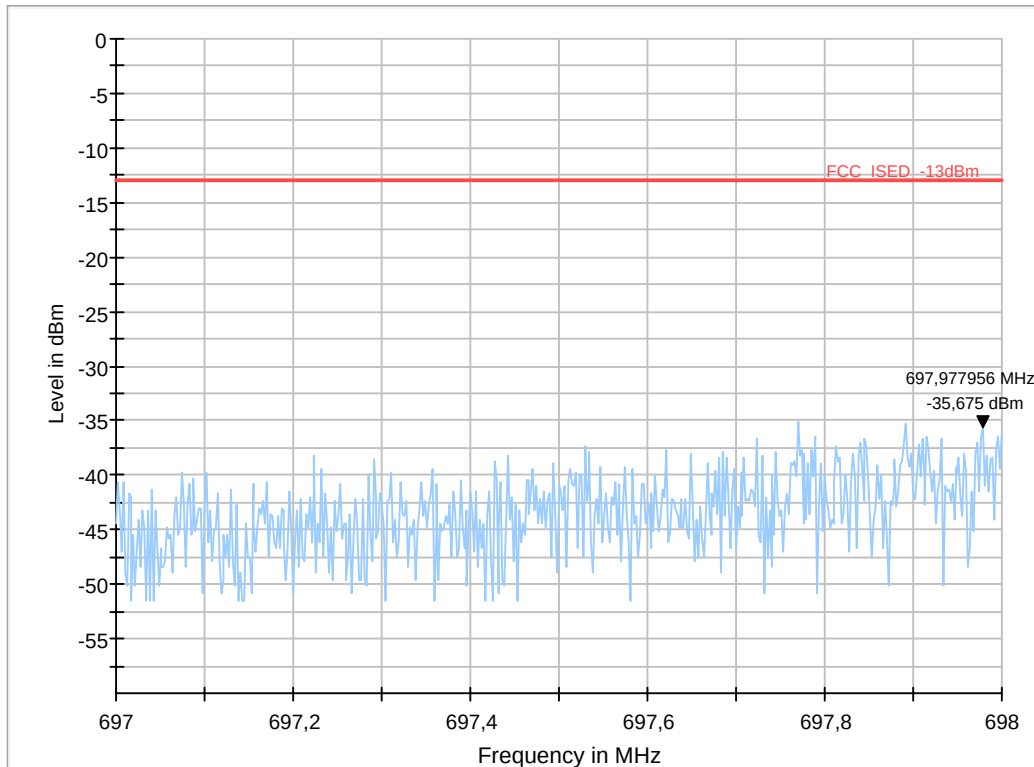
Common Information

Test Description:	Band-Edge low - Radiated Spurious Emissions LTE Band V
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917(a)
Operating Mode:	UE allocated channel xxx
Environmental Conditions:	Humidity: 46%rH; Temperature: 20°C
Test SW Version:	EMC32 V9.26.0
Operator:	Mah
Remarks:	EUT - Laying position

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1231-0
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



9.55a BE_R Ch_23035_1RB BW_5_QAM

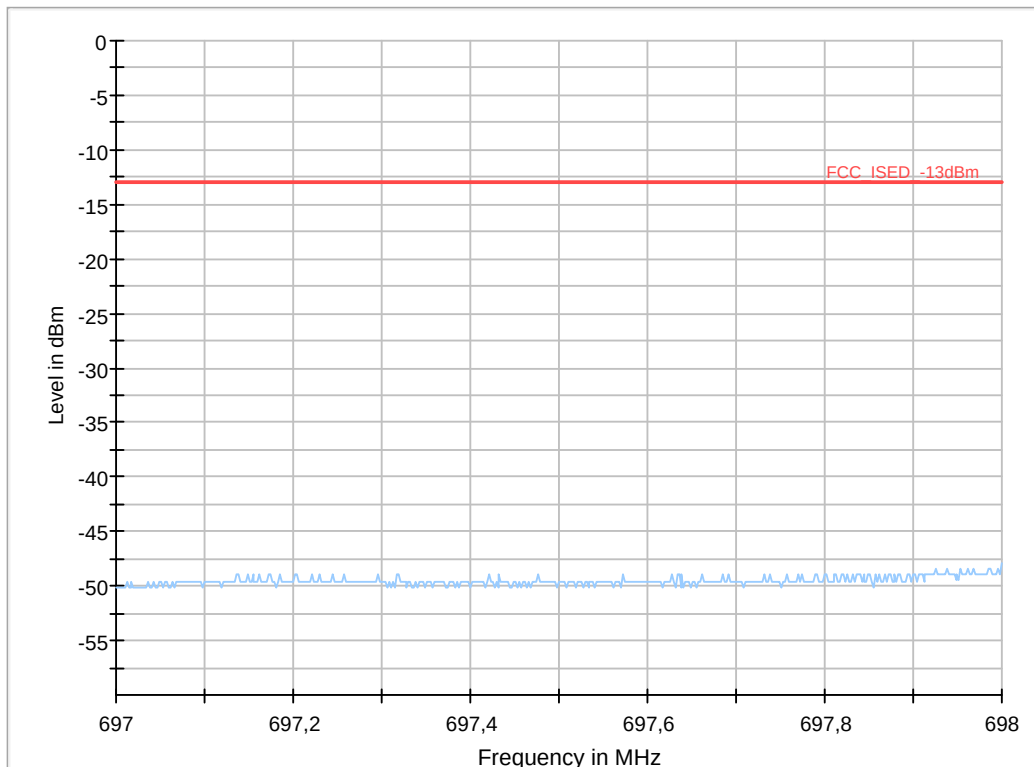
Common Information

Test Description:	Band-Edge low - Radiated Spurious Emissions LTE Band V
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917(a)
Operating Mode:	UE allocated channel xxx
Environmental Conditions:	Humidity: 46%rH; Temperature: 20°C
Test SW Version:	EMC32 V9.26.0
Operator:	Mah
Remarks:	EUT - standing position

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1231-0
-----	-----
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



1.15.3. Channel 23035, QPSK, 1RBs

9.55b_BE_R_Ch_23035_1RB_BW_5_QPSK

Common Information

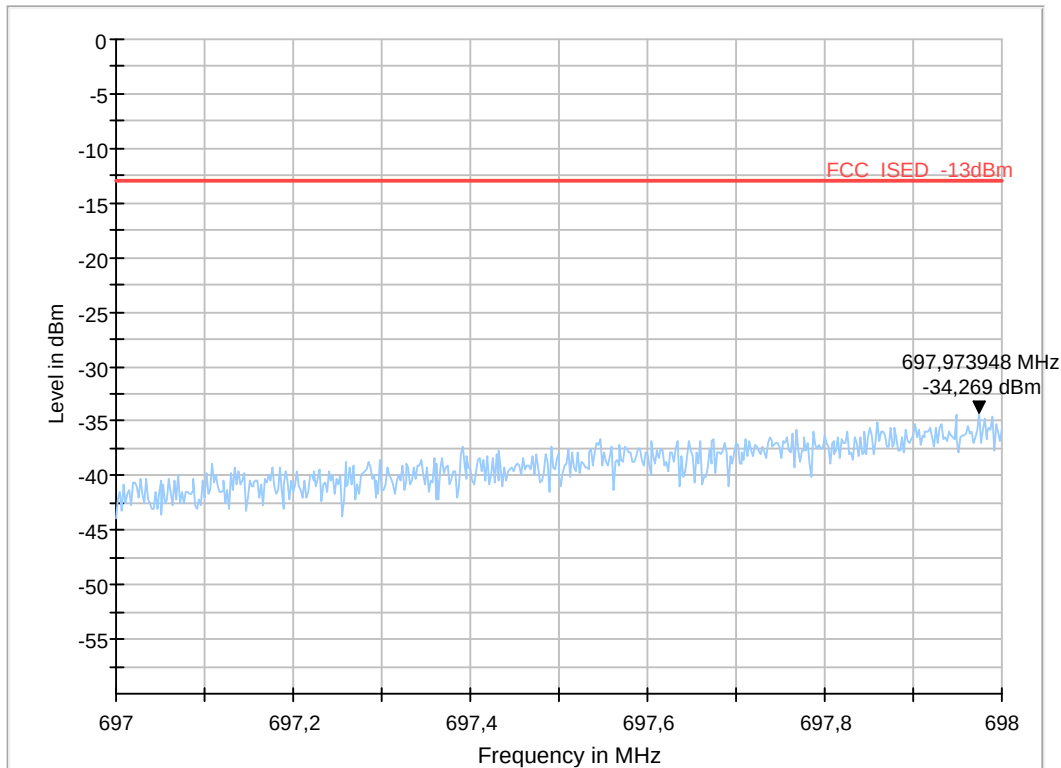
Test Description:	Band-Edge low - Radiated Spurious Emissions LTE Band V
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917(a)
Operating Mode:	UE allocated channel xxx
Environmental Conditions:	Humidity: 46%rH; Temperature: 20°C
Test SW Version:	EMC32 V9.26.0
Operator:	Mah
Remarks:	EUT - Laying position

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1231-0

HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



9.55b_BE_R_Ch_23035_1RB_BW_5_QPSK

Common Information

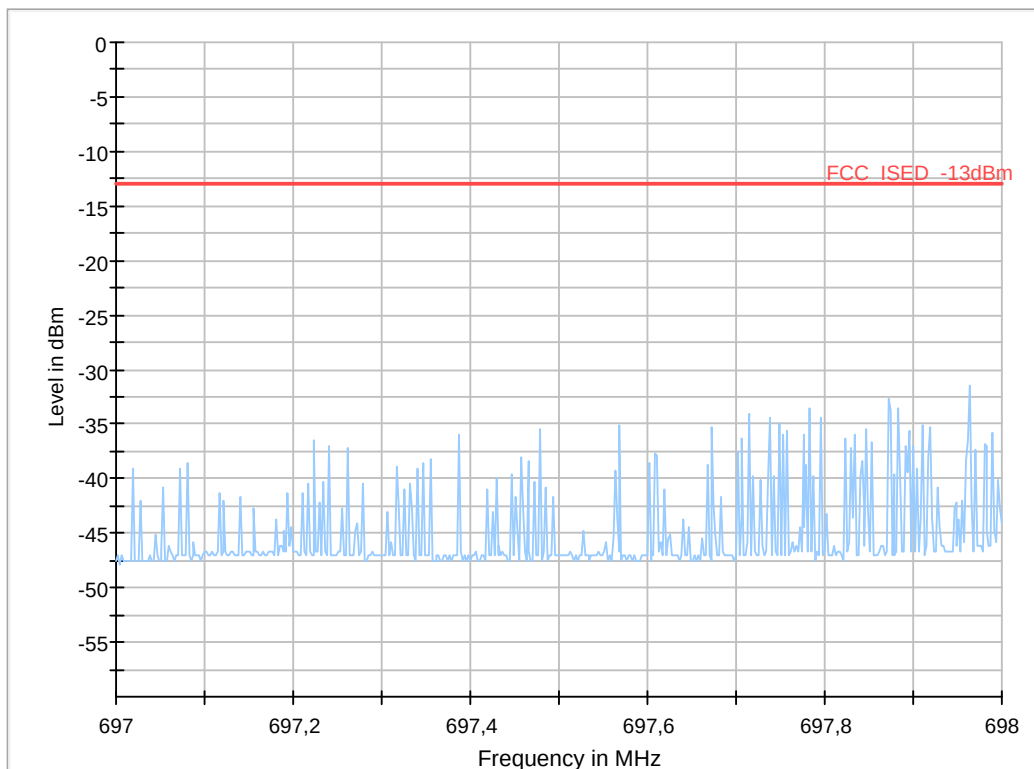
Test Description:	Band-Edge low - Radiated Spurious Emissions LTE Band V
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917(a)
Operating Mode:	UE allocated channel xxx
Environmental Conditions:	Humidity: 46%rH; Temperature: 20°C
Test SW Version:	EMC32 V9.26.0
Operator:	Mah
Remarks:	EUT - standing position

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1231-0

HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



1.15.4. Channel 23035, 16-QAM, 25RBs

9.56a_BE_R_Ch_23035_25RB_BW_5_QAM

Common Information

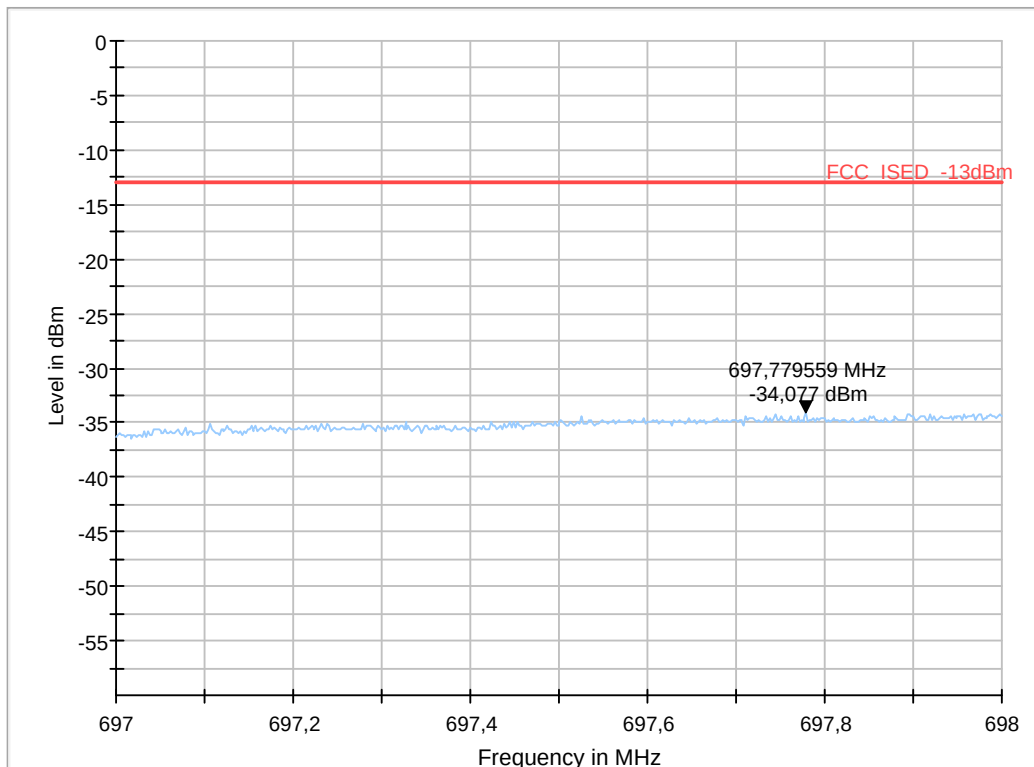
Test Description:	Band-Edge low - Radiated Spurious Emissions LTE Band V
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917(a)
Operating Mode:	UE allocated channel xxx
Environmental Conditions:	Humidity: 46%rH; Temperature: 20°C
Test SW Version:	EMC32 V9.26.0
Operator:	Mah
Remarks:	EUT - Laying position

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1231-0

HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



9.56a_BE_R_Ch_23035_25RB_BW_5_QAM

Common Information

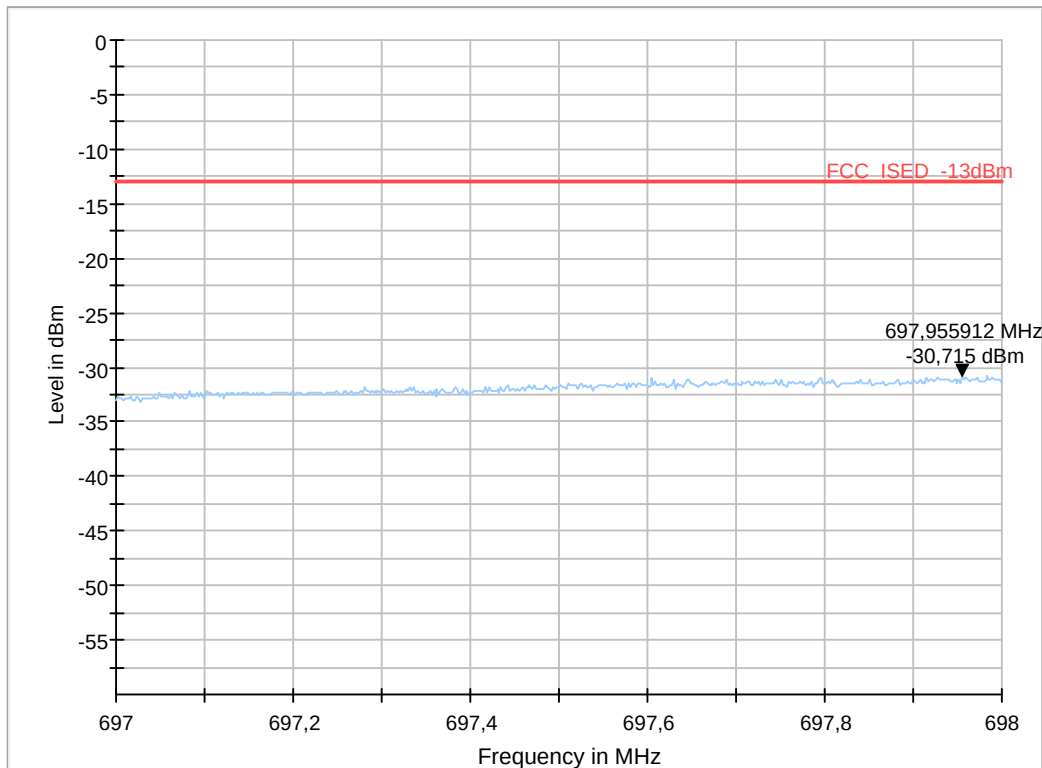
Test Description:	Band-Edge low - Radiated Spurious Emissions LTE Band V
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917(a)
Operating Mode:	UE allocated channel xxx
Environmental Conditions:	Humidity: 46%rH; Temperature: 20°C
Test SW Version:	EMC32 V9.26.0
Operator:	Mah
Remarks:	EUT - standing position

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1231-0

HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



1.15.5. Channel 23035, QPSK, 25RBs

9.56b_BE_R_Ch_23035_25RB_BW_5_QPSK

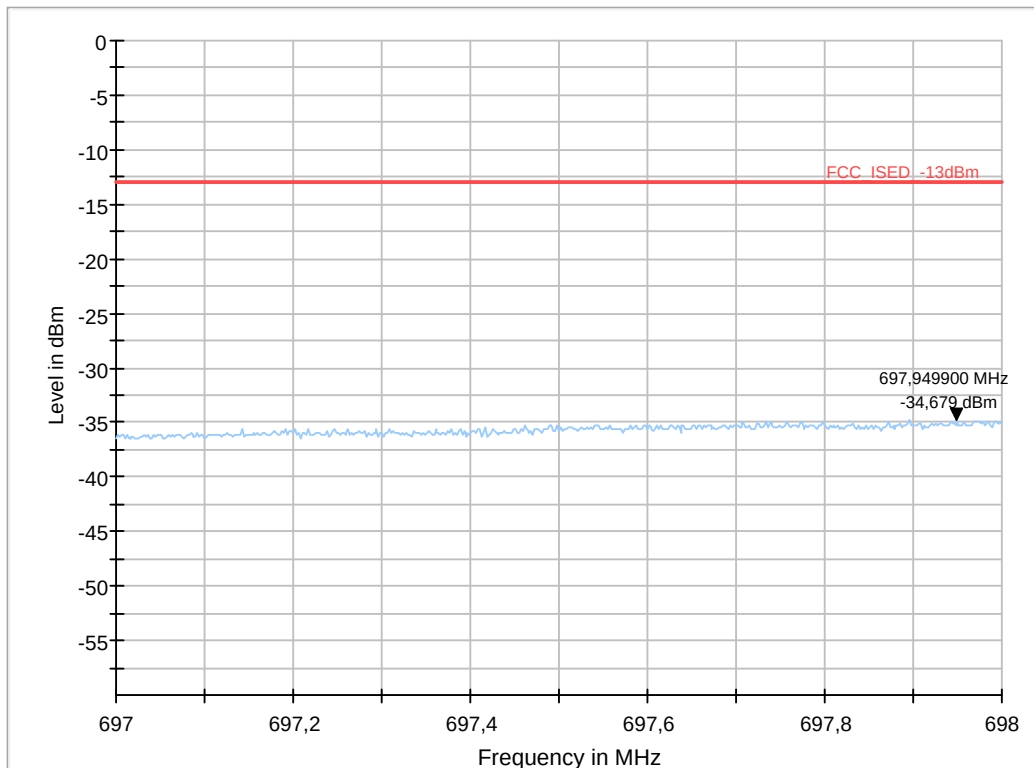
Common Information

Test Description:	Band-Edge low - Radiated Spurious Emissions LTE Band V
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917(a)
Operating Mode:	UE allocated channel xxx
Environmental Conditions:	Humidity: 46%rH; Temperature: 20°C
Test SW Version:	EMC32 V9.26.0
Operator:	Mah
Remarks:	EUT - Laying position

EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG
EUT:	V1231-0
-----	-----
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



9.56b_BE_R_Ch_23035_25RB_BW_5_QAM

Common Information

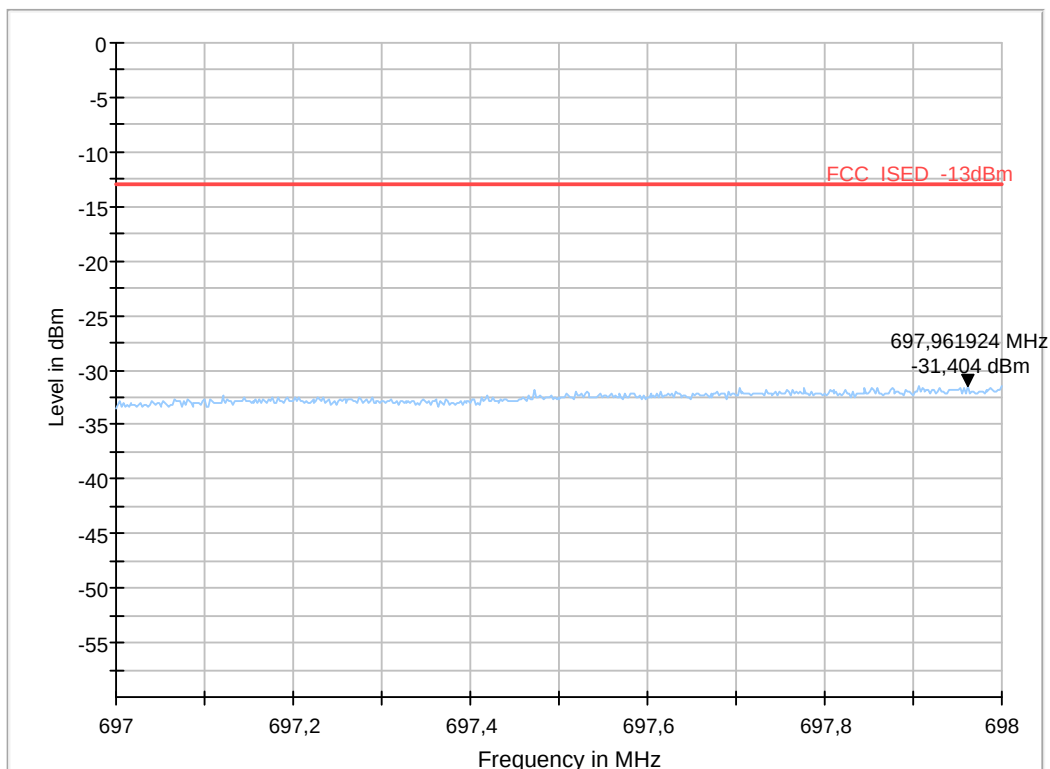
Test Description:	Band-Edge low - Radiated Spurious Emissions LTE Band V
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917(a)
Operating Mode:	UE allocated channel xxx
Environmental Conditions:	Humidity: 46%rH; Temperature: 20°C
Test SW Version:	EMC32 V9.26.0
Operator:	
Remarks:	EUT - standing position

EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG
EUT:	V1231-0

HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



1.15.6. High Band-Edge**1.15.7. Channel 23173, 16-QAM, 1RBs****9.57a_BE_R_Ch_23173_1RB_BW_1_4_QAM****Common Information**

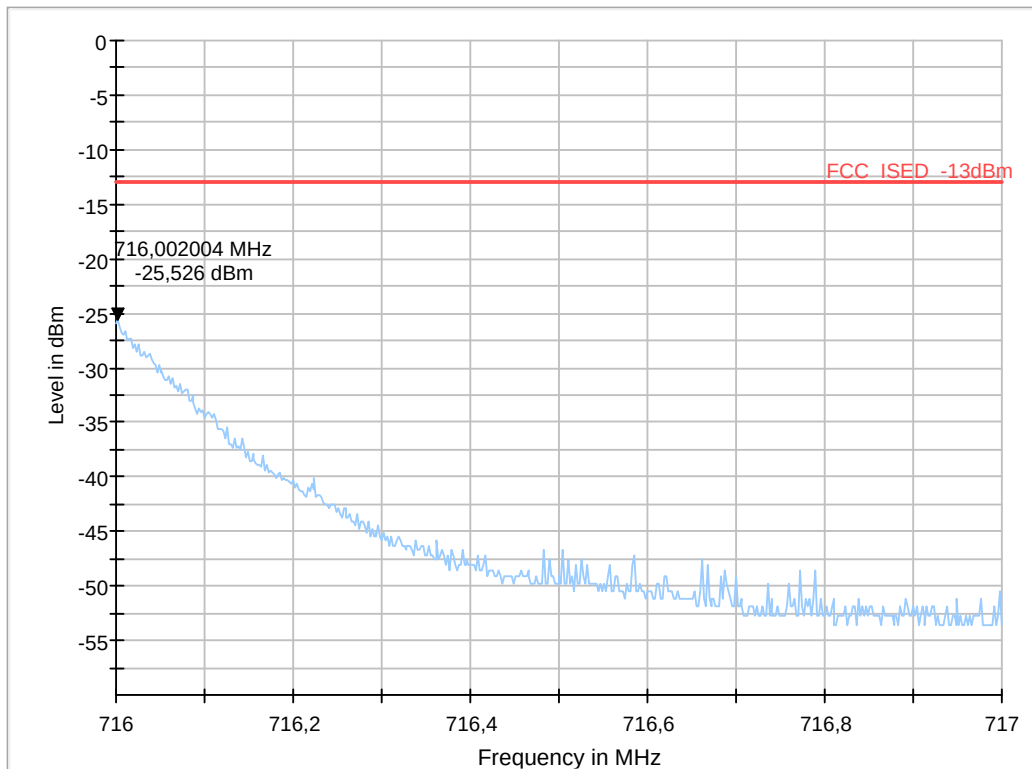
Test Description:	Band-Edge low - Radiated Spurious Emissions LTE Band V
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917(a)
Operating Mode:	UE allocated channel xxx
Environmental Conditions:	Humidity: 46%rH; Temperature: 20°C
Test SW Version:	EMC32 V9.26.0
Operator:	Mah
Remarks:	EUT - Laying position

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1231-0

HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



9.57a_BE_R_Ch_23173_1RB_BW_1_4_QAM

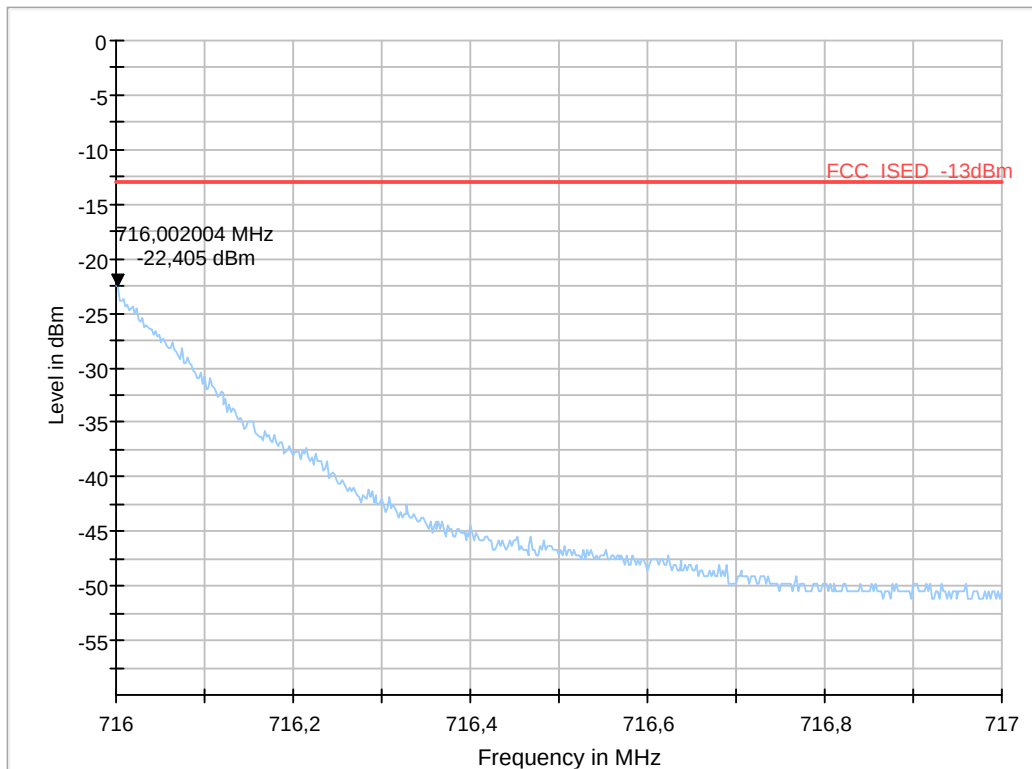
Common Information

Test Description:	Band-Edge low - Radiated Spurious Emissions LTE Band V
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917(a)
Operating Mode:	UE allocated channel xxx
Environmental Conditions:	Humidity: 46%rH; Temperature: 20°C
Test SW Version:	EMC32 V9.26.0
Operator:	Mah
Remarks:	EUT - standing position

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1231-0
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



1.15.8. Channel 23173, QPSK, 1RBs

9.57b_BE_R_Ch_23173_1RB_BW_1_4_QPSK

Common Information

Test Description:	Band-Edge low - Radiated Spurious Emissions LTE Band V
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917(a)
Operating Mode:	UE allocated channel xxx
Environmental Conditions:	Humidity: 46%rH; Temperature: 20°C
Test SW Version:	EMC32 V9.26.0
Operator:	Mah
Remarks:	EUT - Laying position

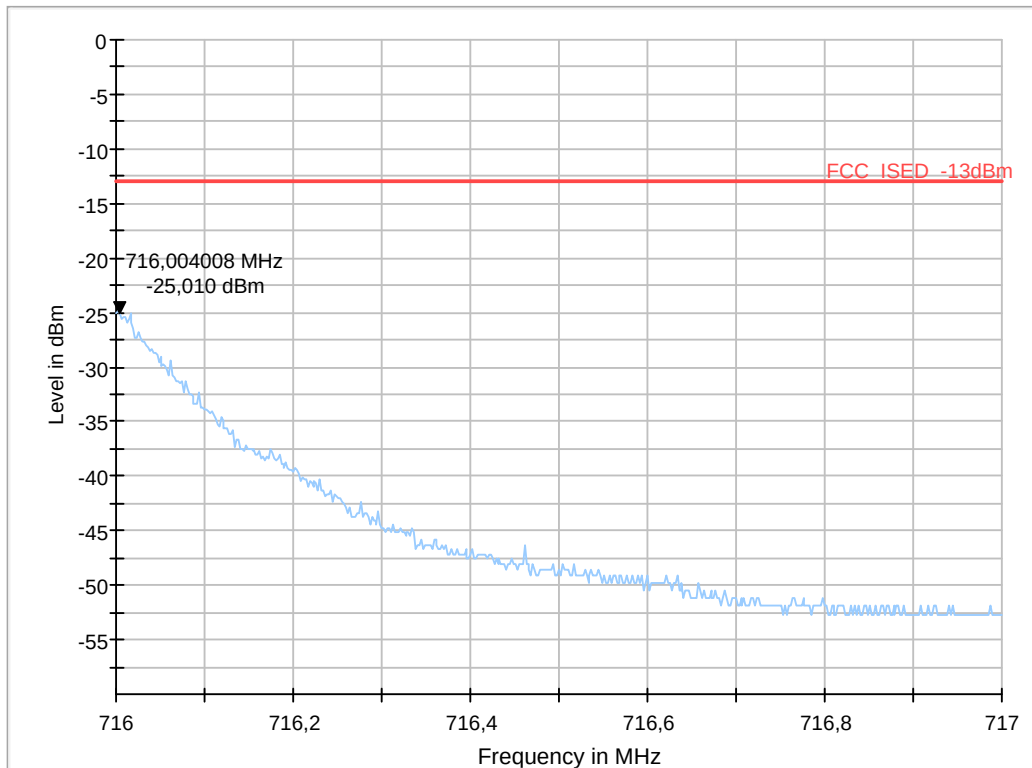
EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1231-0
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC

Comments:

-

Full Spectrum



9.57b_BE_R_Ch_23173_1RB_BW_1_4_QPSK

Common Information

Test Description:	Band-Edge low - Radiated Spurious Emissions LTE Band V
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917(a)
Operating Mode:	UE allocated channel xxx
Environmental Conditions:	Humidity: 46%rH; Temperature: 20°C
Test SW Version:	EMC32 V9.26.0
Operator:	Mah
Remarks:	EUT - standing position

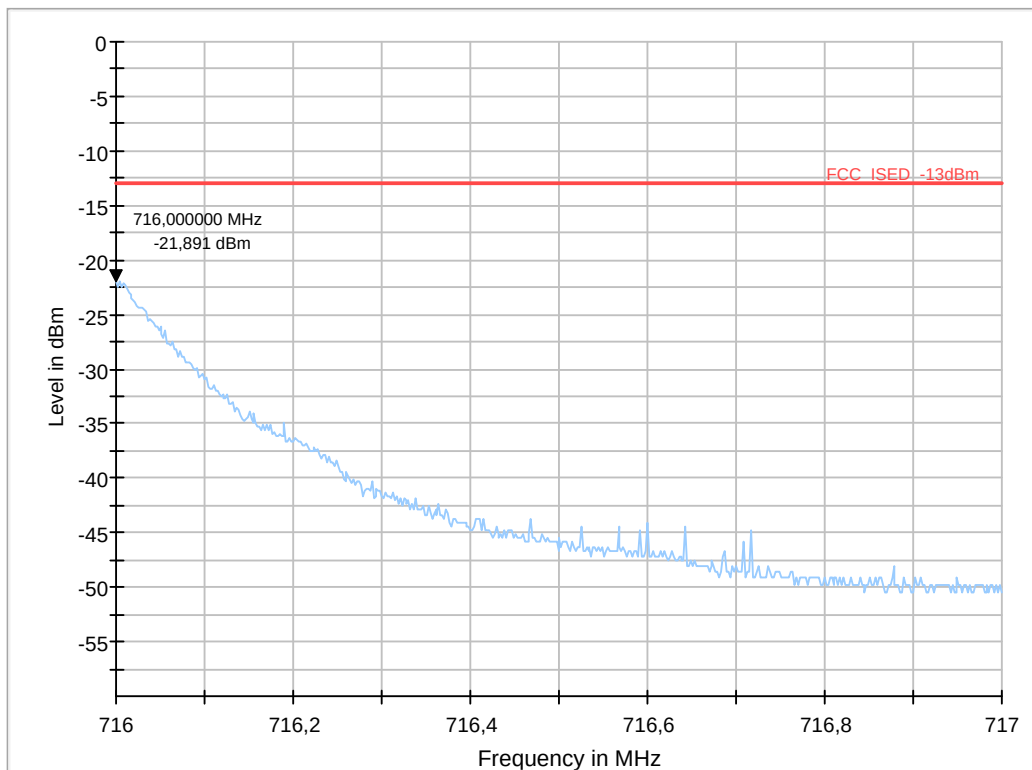
EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1231-0
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC

Comments:

-

Full Spectrum



1.15.9. Channel 23173, 16-QAM, 6RBs

9.58a_BE_R_Ch_23173_6RB_BW_1_4_QAM

Common Information

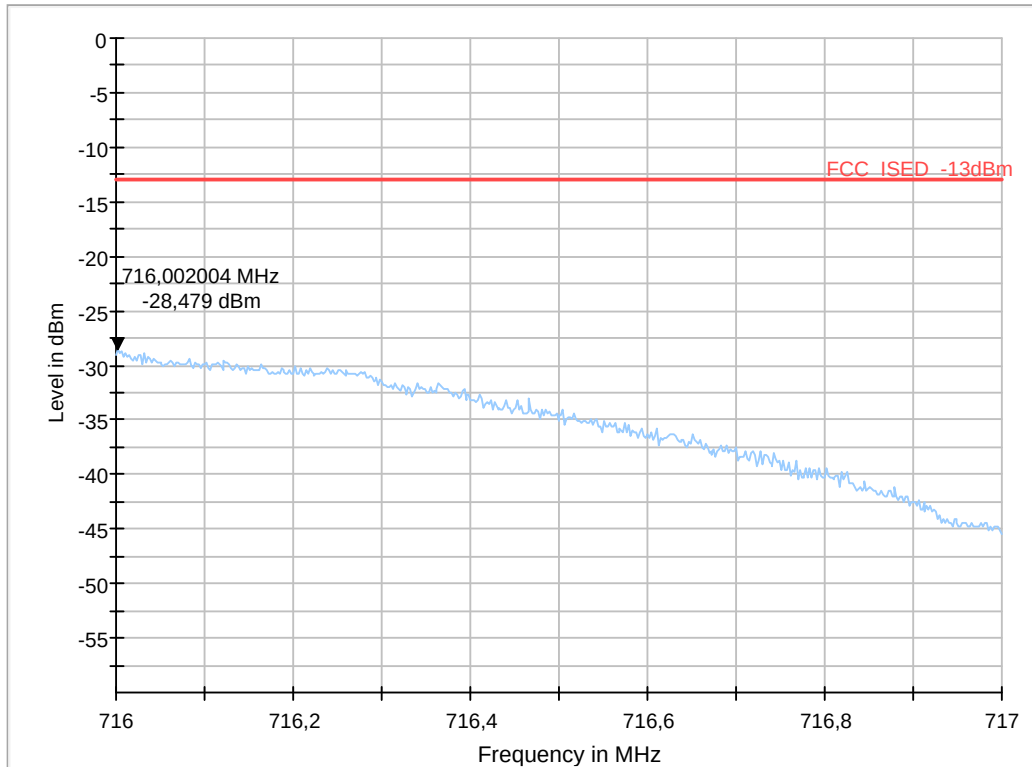
Test Description:	Band-Edge low - Radiated Spurious Emissions LTE Band V
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917(a)
Operating Mode:	UE allocated channel xxx
Environmental Conditions:	Humidity: 46%rH; Temperature: 20°C
Test SW Version:	EMC32 V9.26.0
Operator:	Mah
Remarks:	EUT - Laying position

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1231-0
-----	-----
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256

Serial number: 004402580040446
 Connected Interfaces: Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna
 LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
 Power Supply: 12VDC
 Comments: -

Full Spectrum



9.58a_BE_R_Ch_23173_6RB_BW_1_4_QAM

Common Information

Test Description:	Band-Edge low - Radiated Spurious Emissions LTE Band V
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917(a)
Operating Mode:	UE allocated channel xxx
Environmental Conditions:	Humidity: 46%rH; Temperature: 20°C
Test SW Version:	EMC32 V9.26.0
Operator:	Mah
Remarks:	EUT - standing position

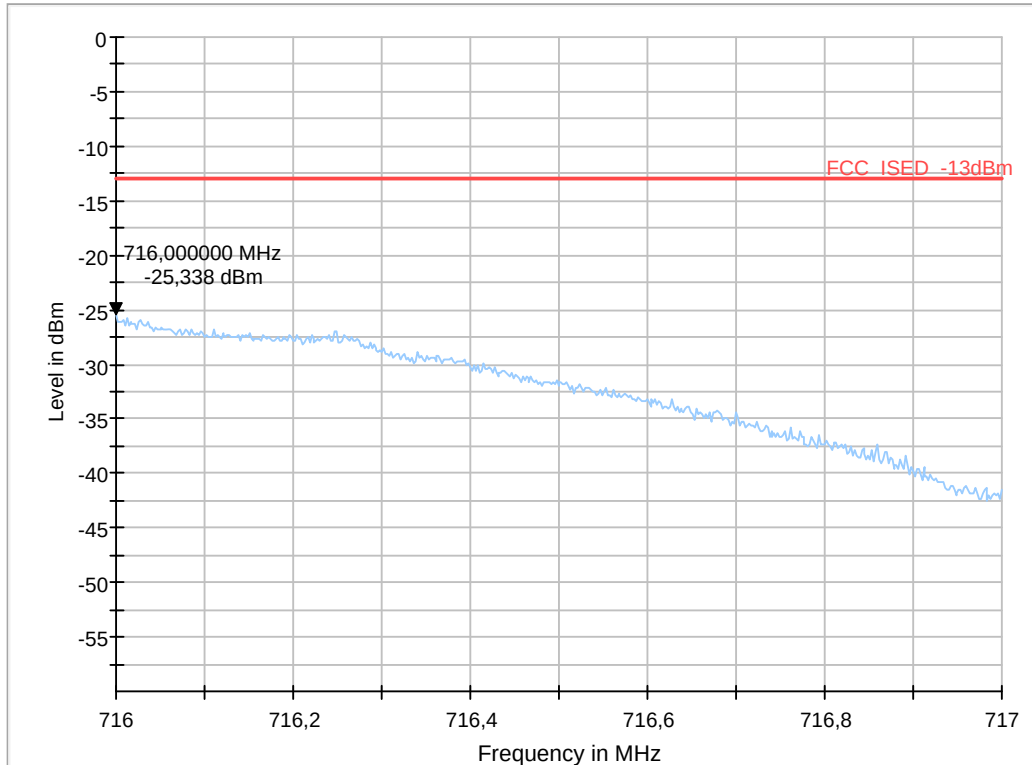
EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1231-0

HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446

Connected Interfaces: Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna
 Power Supply: 12VDC
 Comments: -

Full Spectrum



1.15.10. Channel 23173, QPSK, 6RBs

9.58b_BE_R_Ch_23173_6RB_BW_1_4_QPSK

Common Information

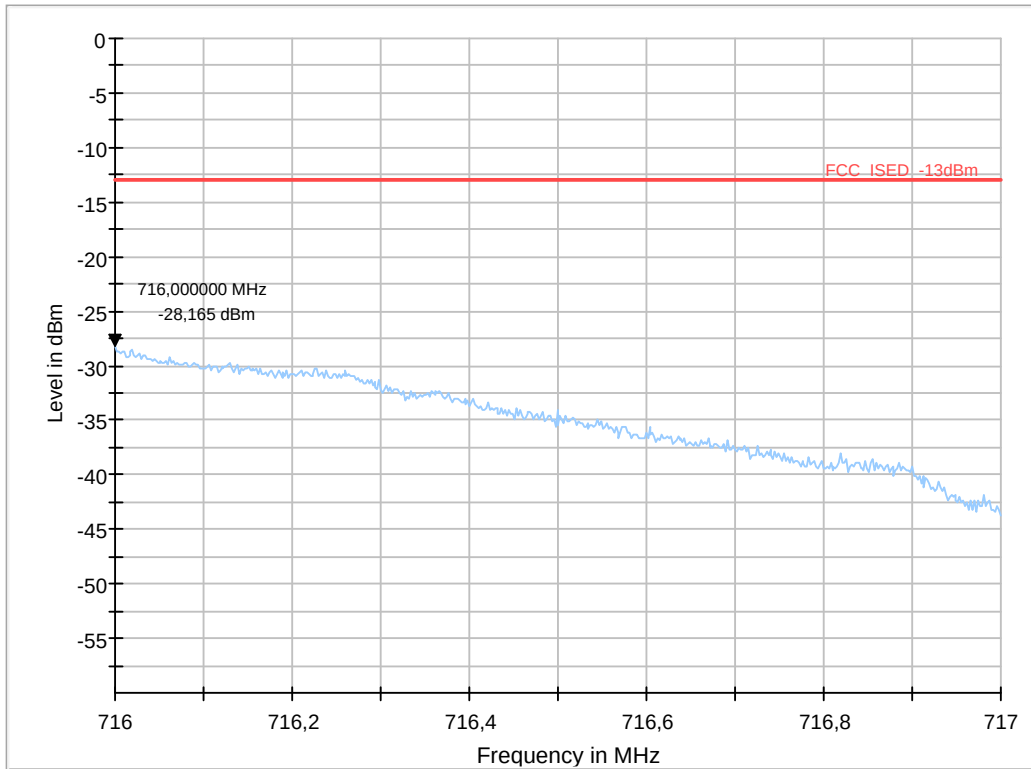
Test Description:	Band-Edge low - Radiated Spurious Emissions LTE Band V
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917(a)
Operating Mode:	UE allocated channel xxx
Environmental Conditions:	Humidity: 46%rH; Temperature: 20°C
Test SW Version:	EMC32 V9.26.0
Operator:	Mah
Remarks:	EUT - Laying position

EUT Information

Manufacturer: peiker acustic GmbH & Co. KG

EUT:	V1231-0
-----	-----
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256),Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



9.58b_BE_R_Ch_23173_6RB_BW_1_4_QPSK

Common Information

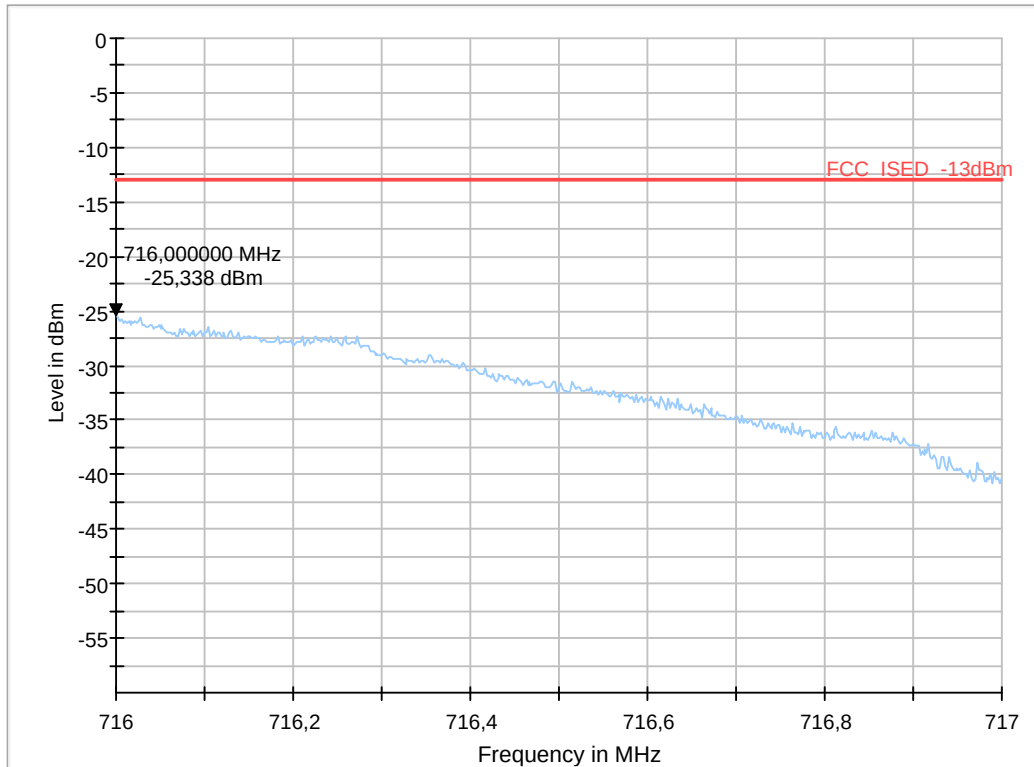
Test Description:	Band-Edge low - Radiated Spurious Emissions LTE Band V
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917(a)
Operating Mode:	UE allocated channel xxx
Environmental Conditions:	Humidity: 46%rH; Temperature: 20°C
Test SW Version:	EMC32 V9.26.0
Operator:	Mah
Remarks:	EUT - standing position

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1231-0
-----	-----

HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



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

1.16.1. Low Band-Edge

1.16.1.1. Channel 20825, QPSK, 75RBs

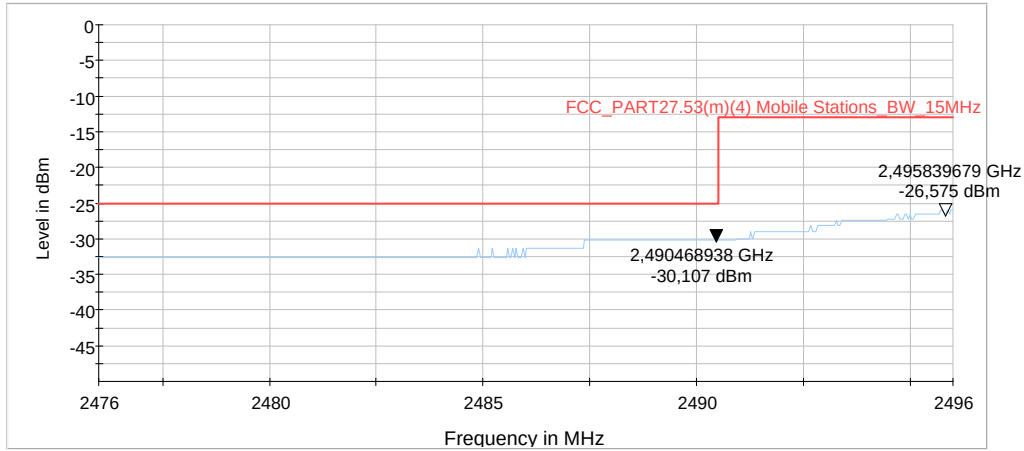


Diagram 9.706a_Ch20825_BW_15_QPSK_75RB_laying

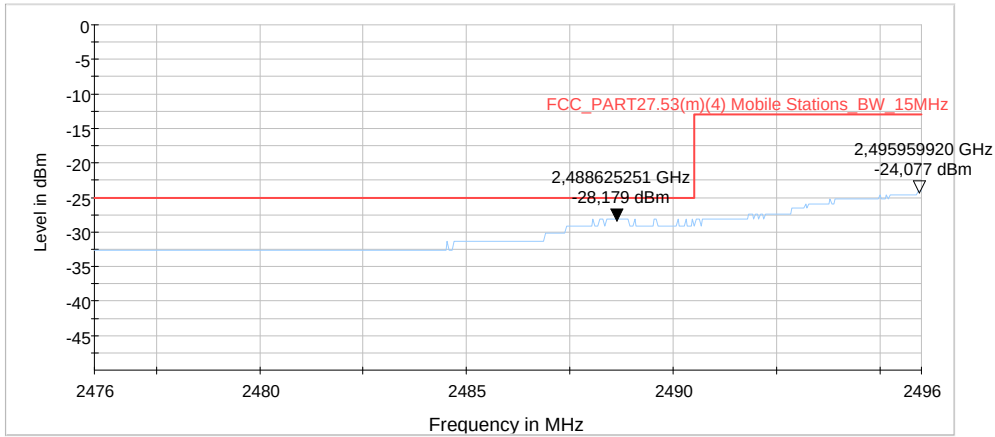


Diagram 9.706a_Ch20825_BW_15_QPSK_75RBs_standing

1.16.1.2. Channel 20825, 16-QAM, 15RBs

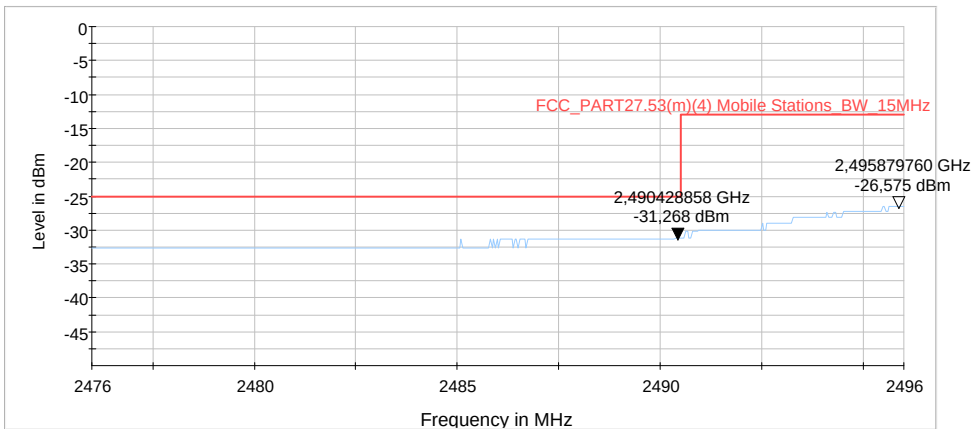


Diagram 9.706b_Ch20825_BW_15_16QAM_75RB_laying

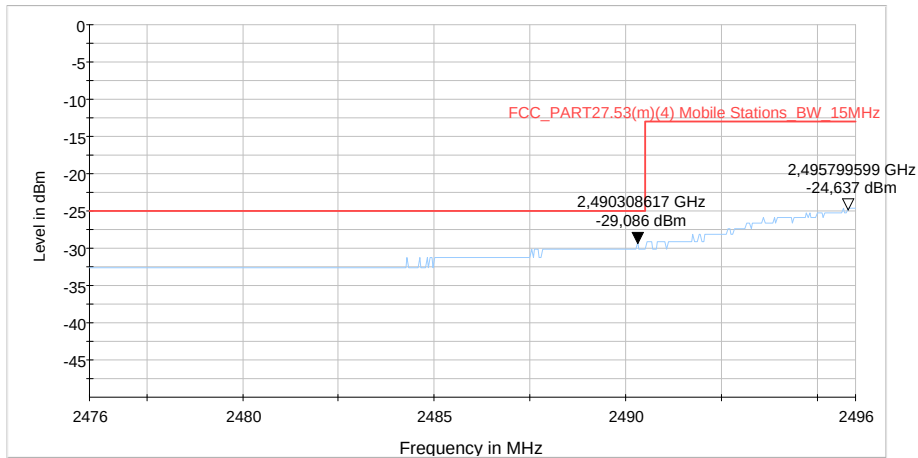


Diagram 9.706b_Ch20825_BW_15_16QAM_75RBs_standing

1.16.1.3. Channel 20850, QPSK, 100RBs

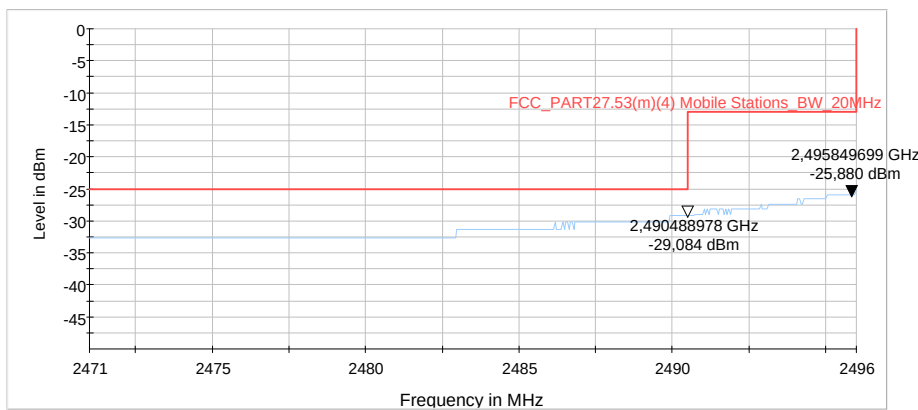


Diagram 9.707a_Ch20850_BW_20_QPSK_100RB_Laying

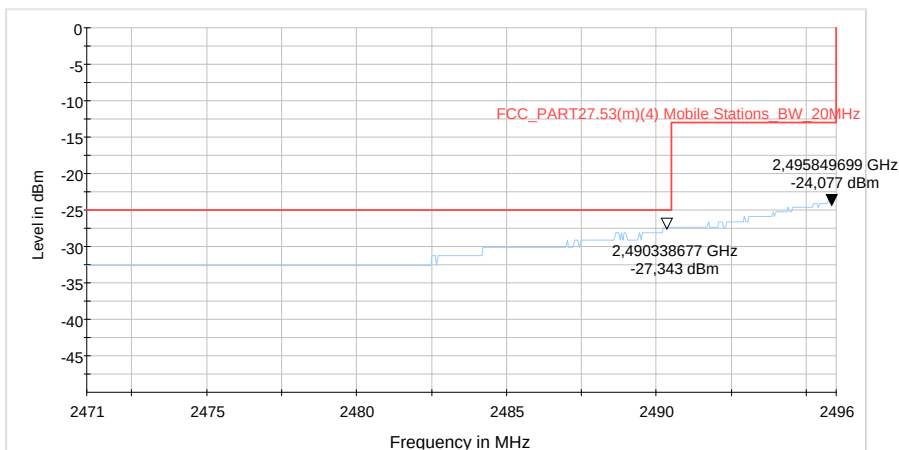


Diagram 9.707a_Ch20850_BW_20_QPSK_100RB_Standing

1.16.1.4. Channel 20850, 16-QAM, 100RBs

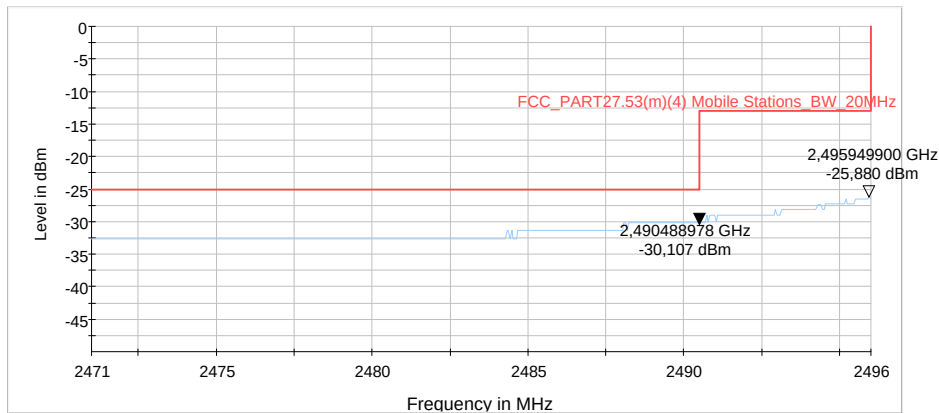


Diagram 9.707b_Ch20850_BW_20_16QAM_100RB_Laying

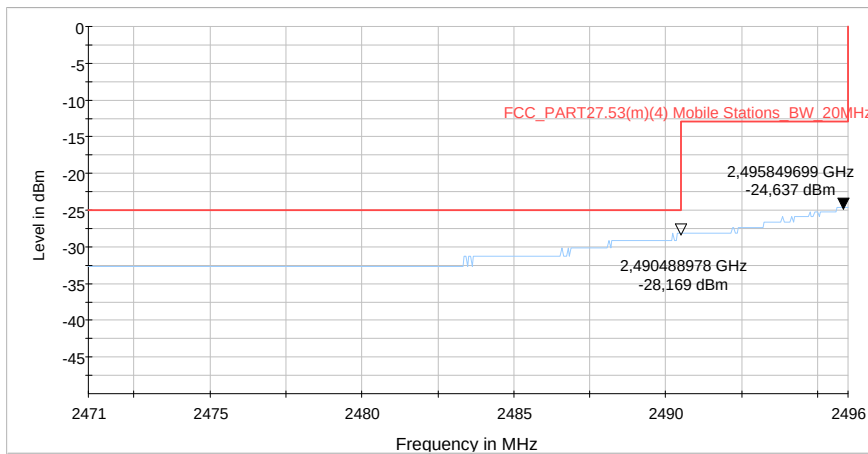


Diagram 9.707b_Ch20850_BW_20_16QAM_100RB_Standing

1.16.1.5. Channel 20825, 16-QAM, 1RBs

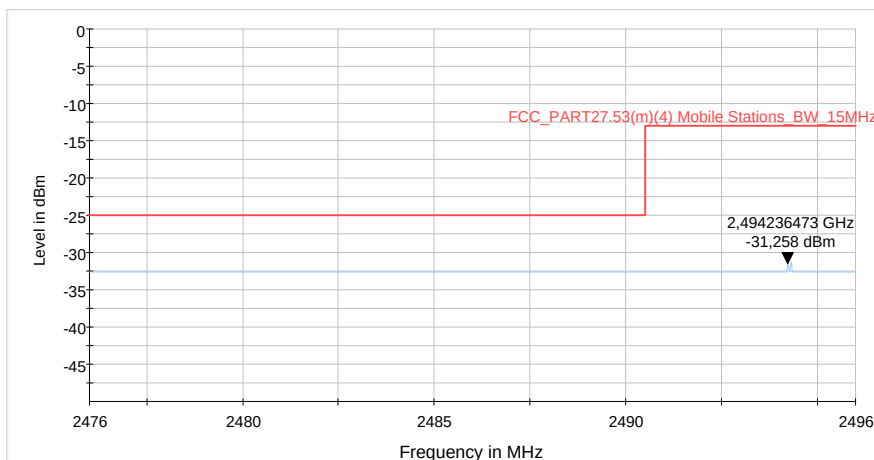


Diagram 9.707b_Ch20825_BW_15_16QAM_1RB_low_standing

1.16.2. High Band-Edge

1.16.2.1. Channel 21375, QPSK, 1RBs

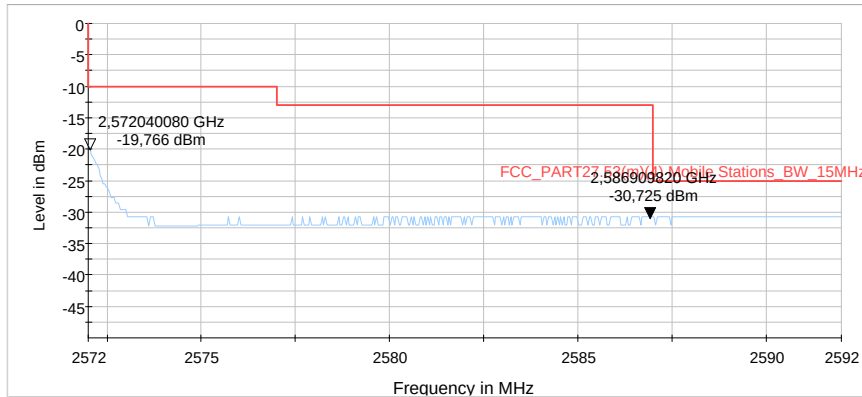


Diagram 9.714a_Ch21375_BW_15_1RB_high_QPSK_laying

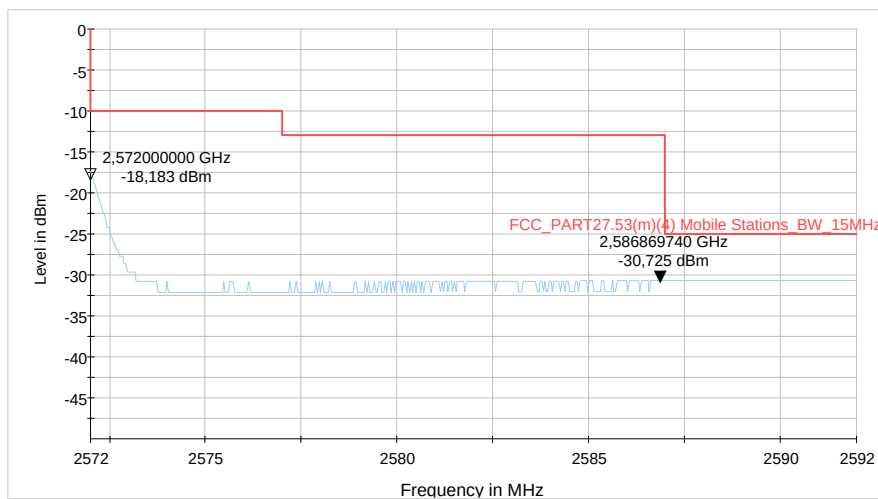


Diagram 9.714a_Ch21375_BW_15_1RB_high_QPSK_standing

1.16.2.2. Channel 21375, 16-QAM, 1RBs

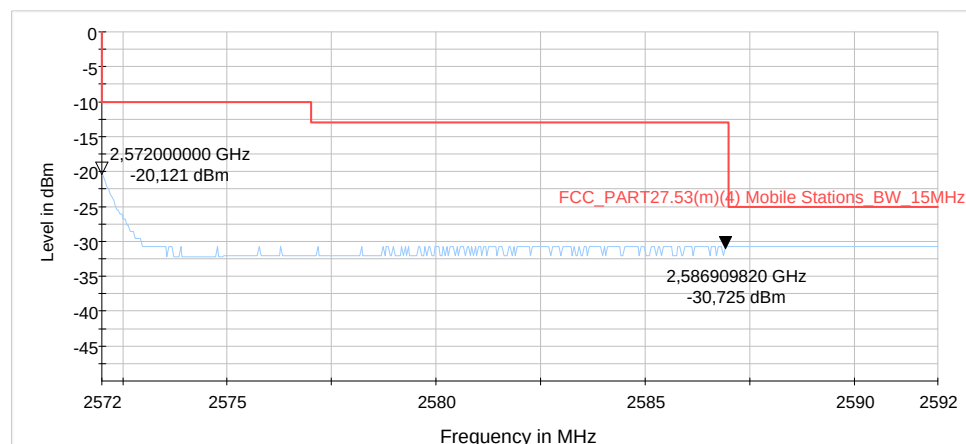


Diagram 9.714b_Ch21375_BW_15_1RB_high_16QAM_laying

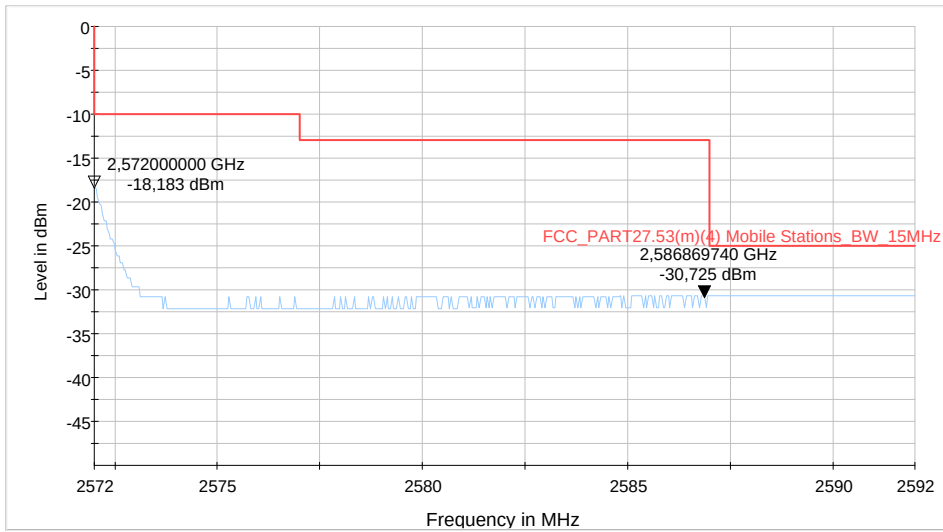


Diagram 9.714b_Ch21375_BW_15_1RB_high_16QAM_standing

1.16.2.3. Channel 21375, QPSK, 75RBs

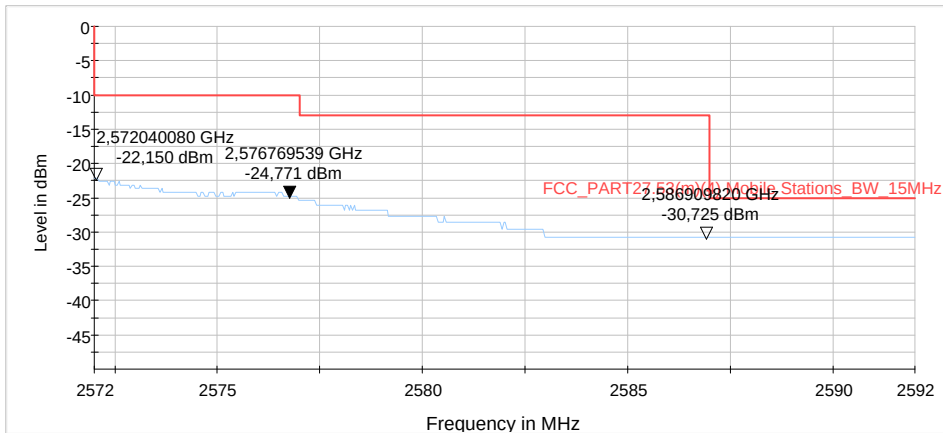


Diagram 9.715a_Ch21375_BW_15_75RB_QPSK_laying

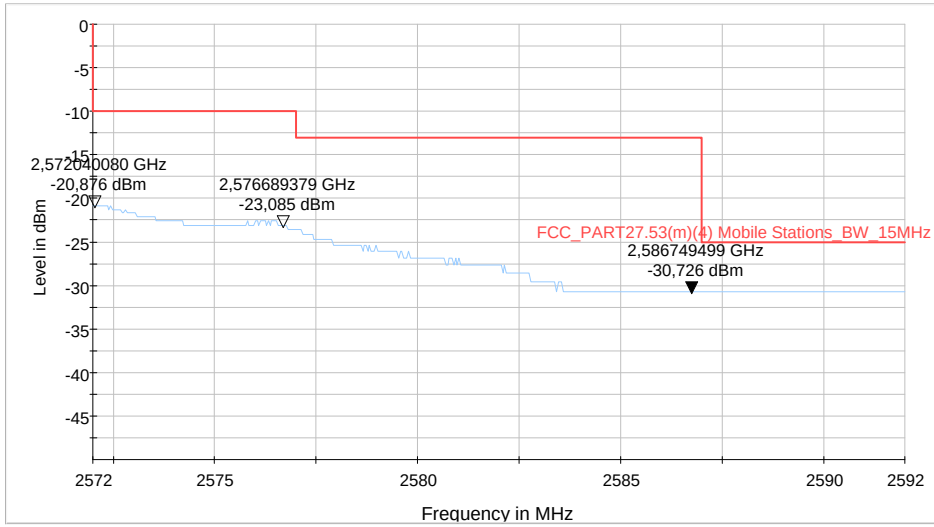


Diagram 9.715a_Ch21375_BW_15_75RB_QPSK_standing

1.16.2.4. Channel 21375, 16-QAM, 75RBs

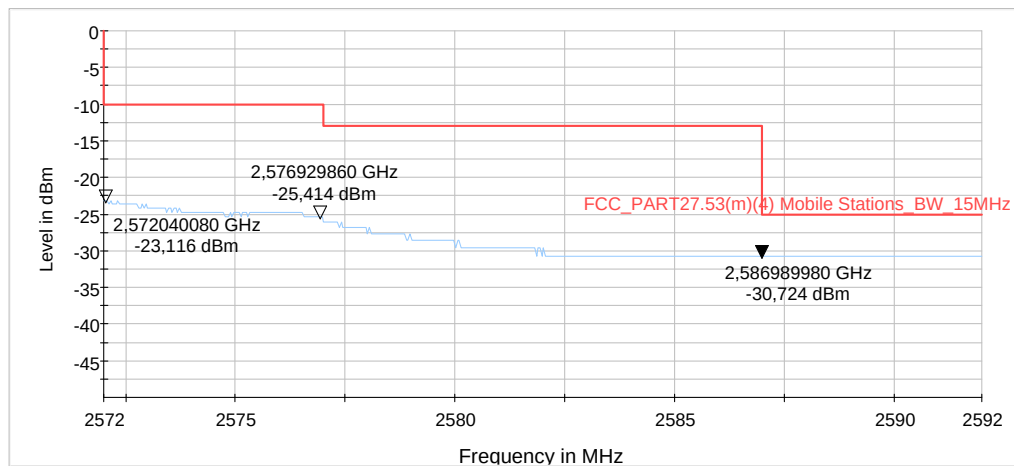


Diagram 9.715b_Ch21375_BW_15_75RB_16QAM_laying

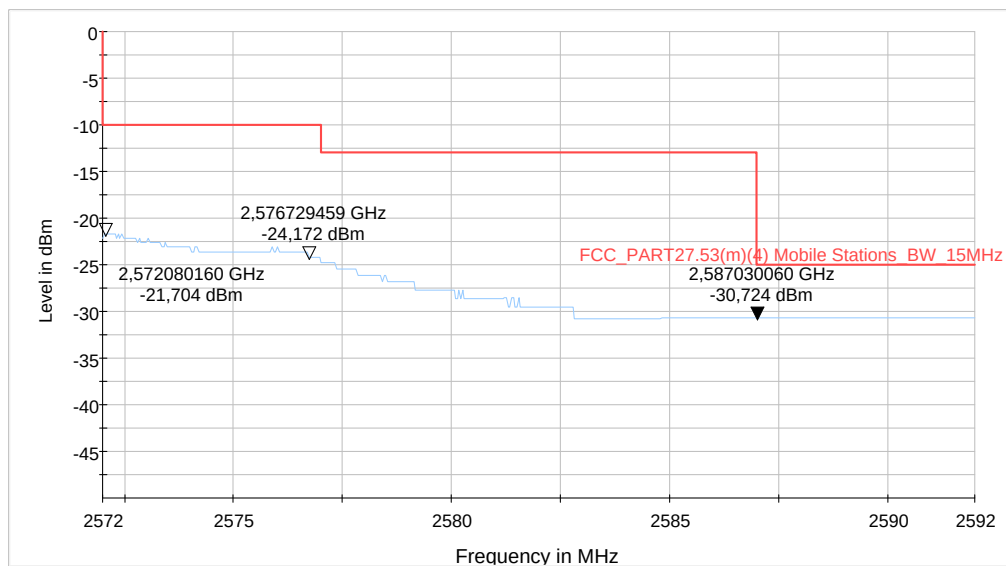


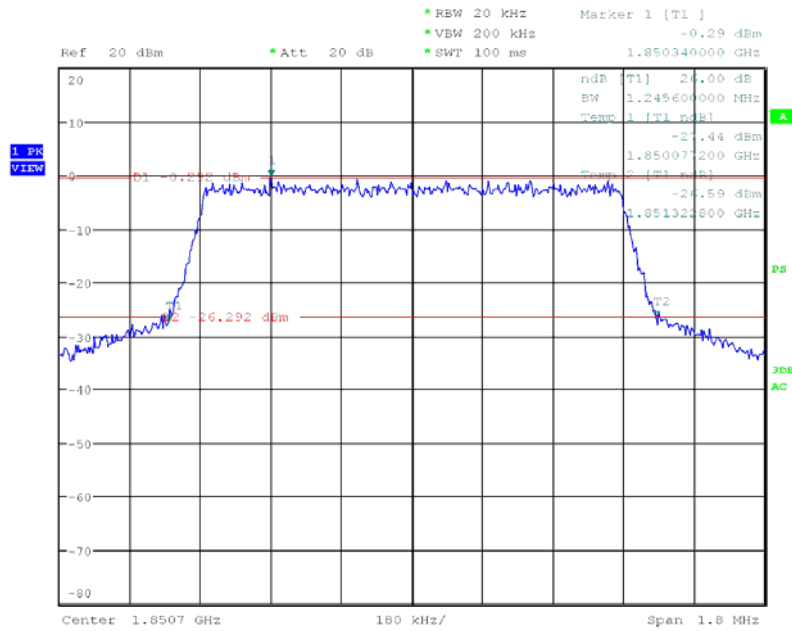
Diagram 9.715b_Ch21375_BW_15_75RB_16QAM_standing

1.17. 26dBc Emission bandwidth

1.17.1. LTE Band 2

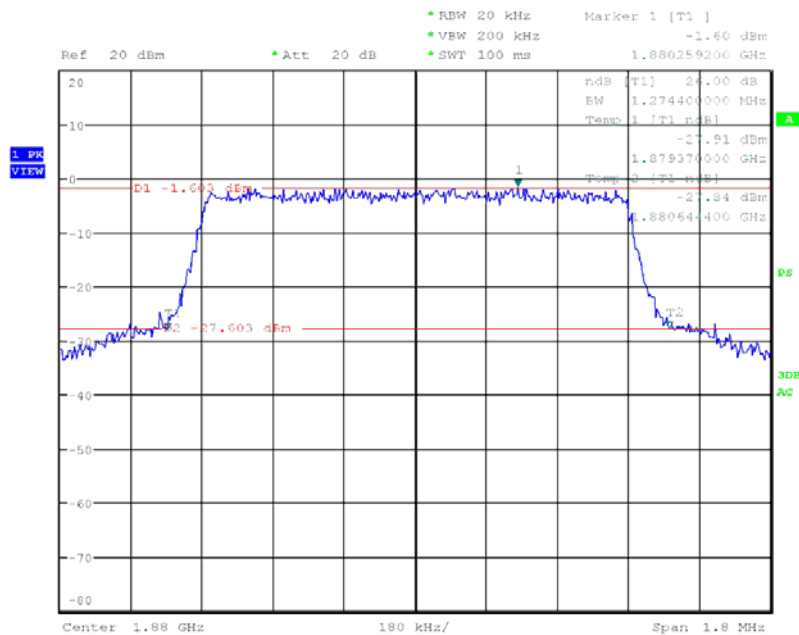
1.17.1.1. BW = 1.4MHz

QPSK-Modulation



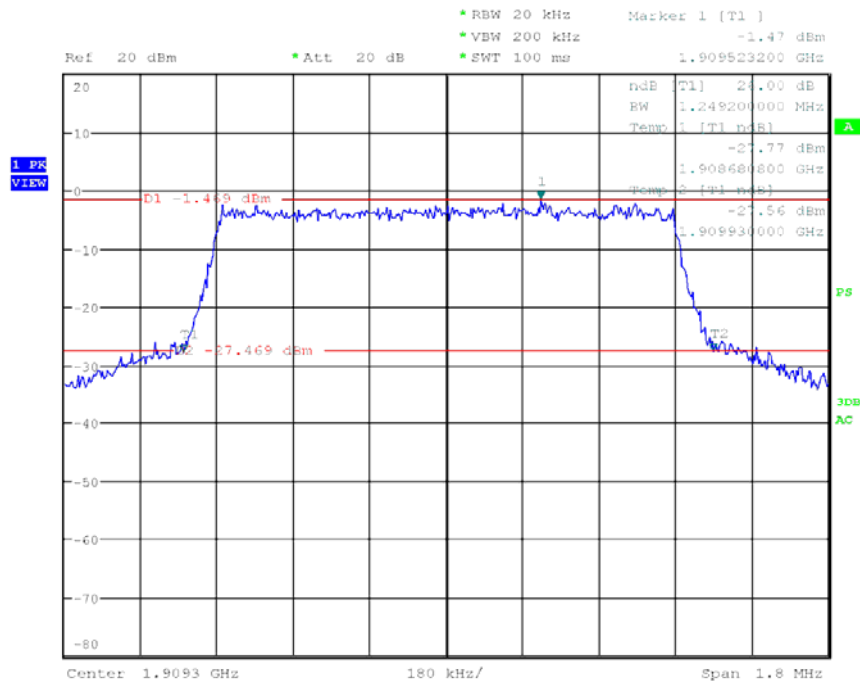
Date: 13.JAN.2017 12:05:27

Diagram 34_200_26 dB



Date: 13.JAN.2017 12:19:52

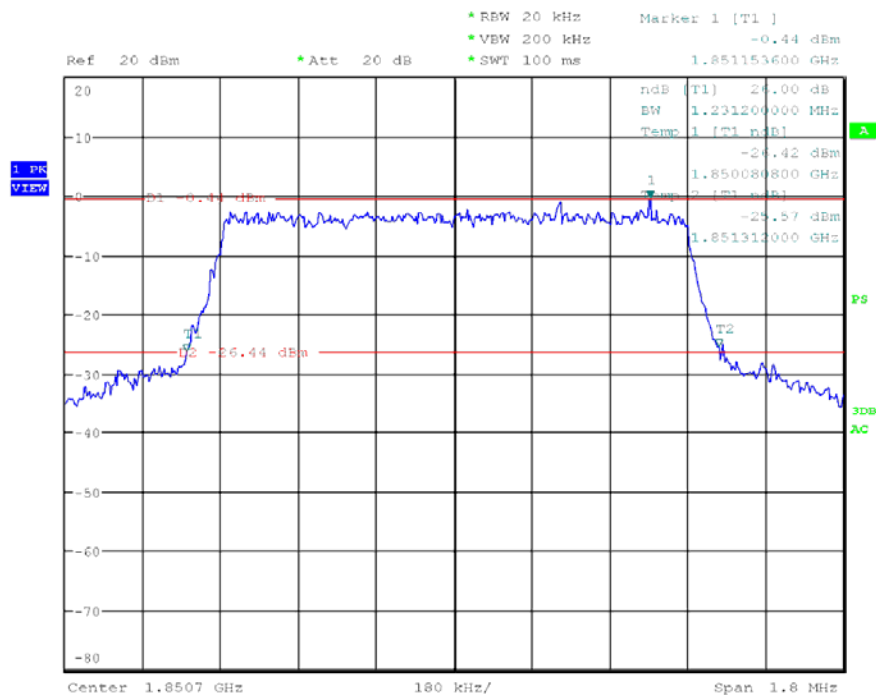
Diagram 34_201_26 dB



Date: 13.JAN.2017 12:22:43

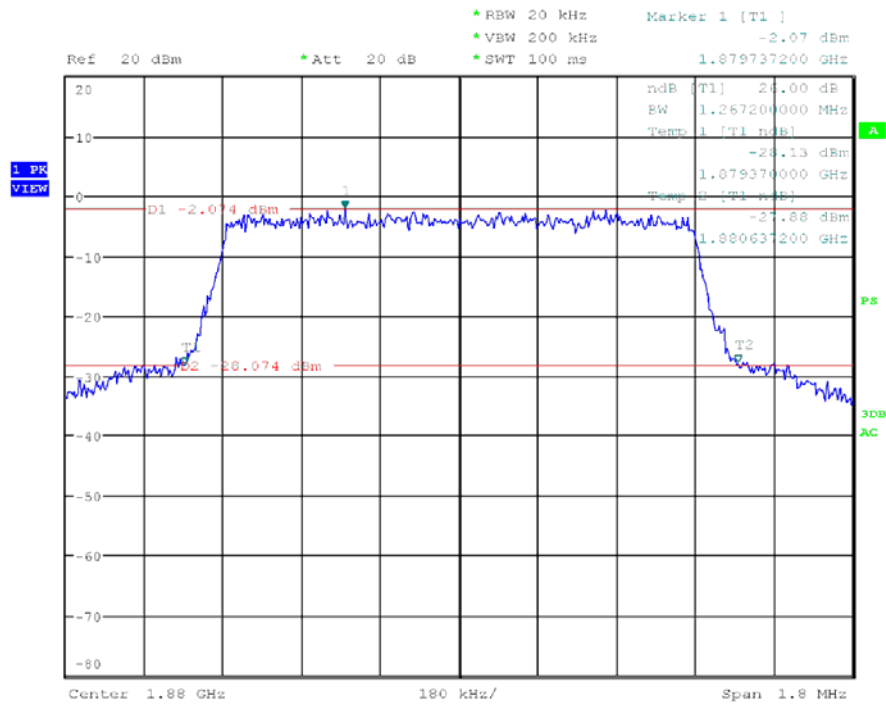
Diagram 34_202_26 dB

16-QAM-Modulation



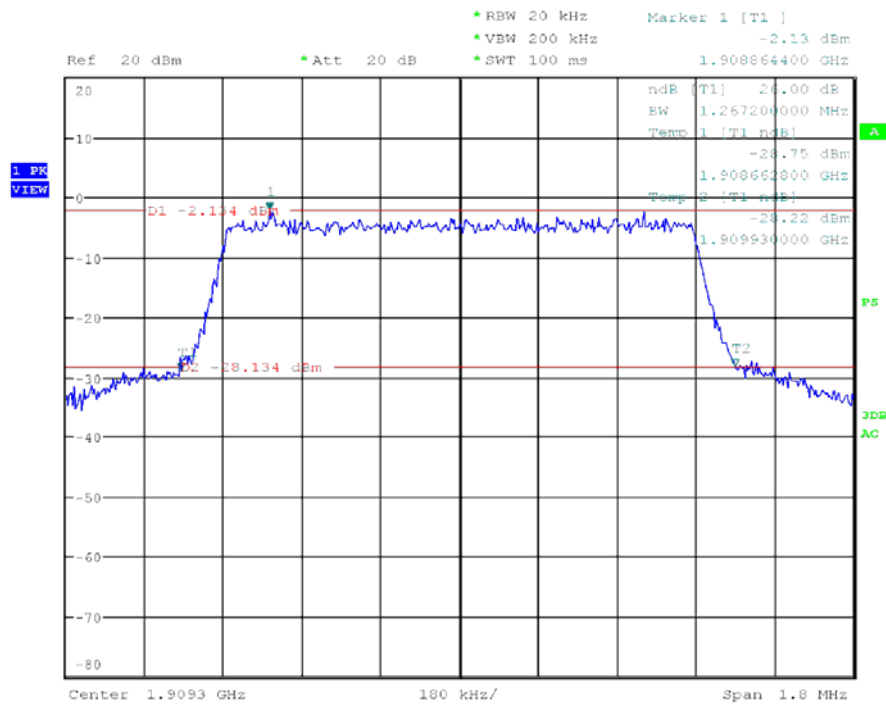
Date: 13.JAN.2017 13:18:37

Diagram 34_2018_26 dB



Date: 13.JAN.2017 13:19:29

Diagram 34_219_26 dB

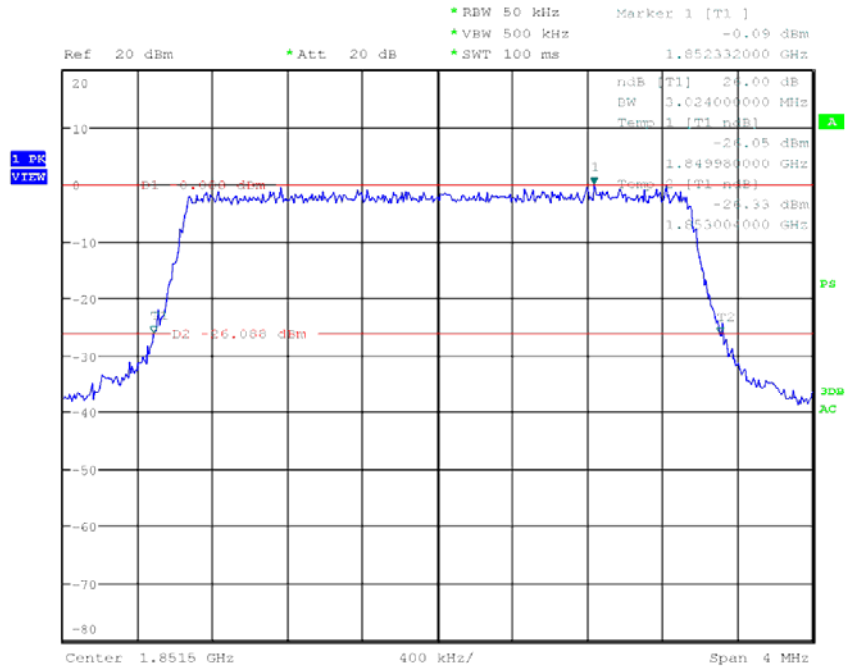


Date: 13.JAN.2017 13:20:26

Diagram 34_220_26 dB

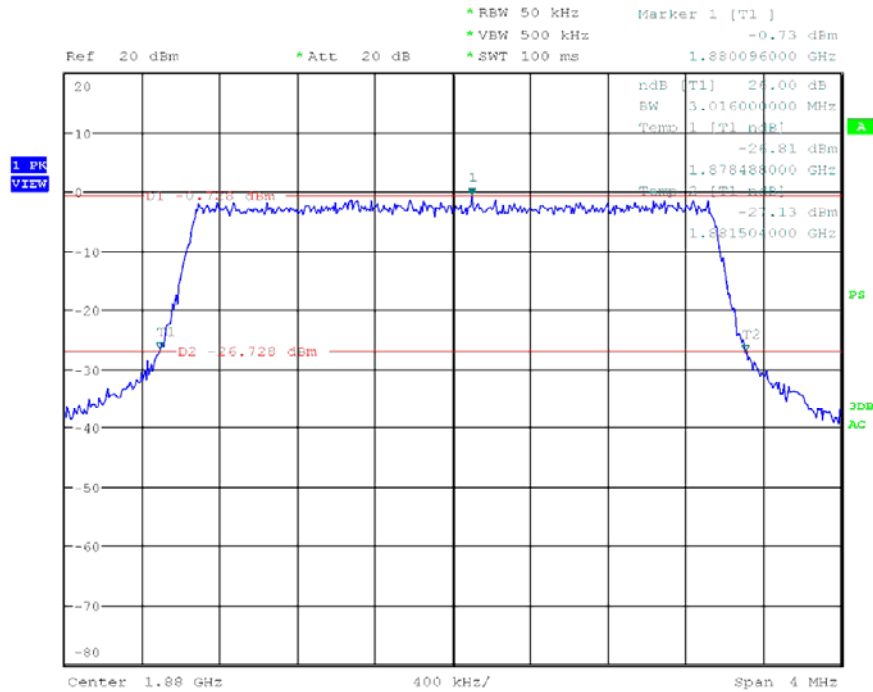
1.17.1.2. BW = 3MHz

QPSK-Modulation



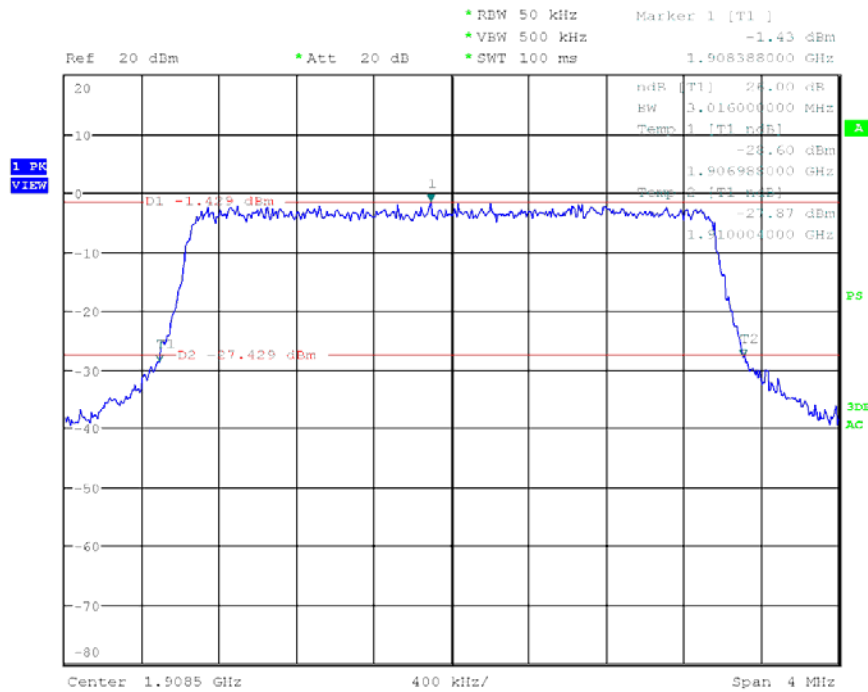
Date: 13.JAN.2017 12:27:14

Diagram 34_203_26 dB



Date: 13.JAN.2017 12:28:44

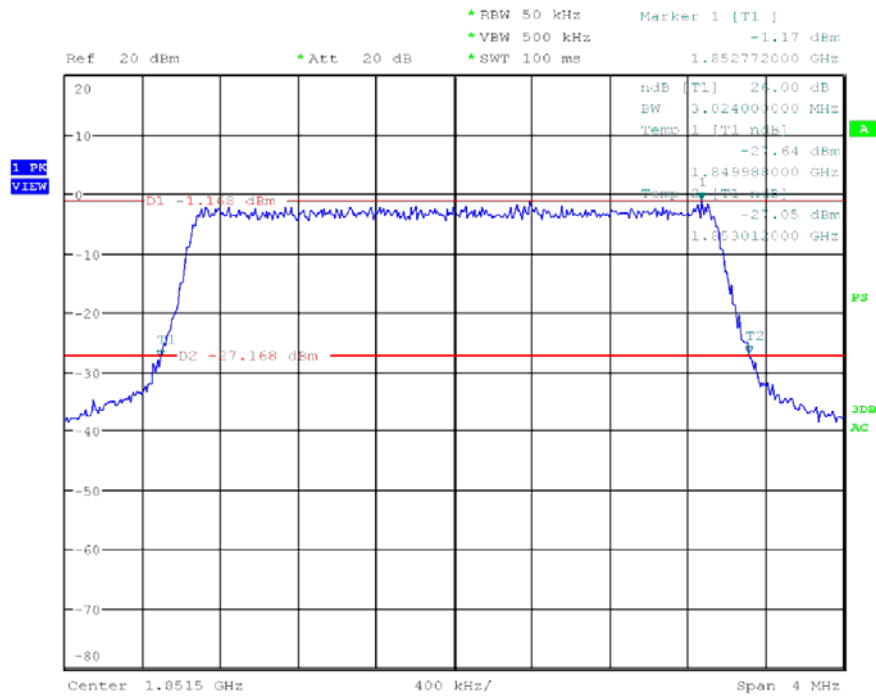
Diagram 34_204_26 dB



Date: 13.JAN.2017 12:29:23

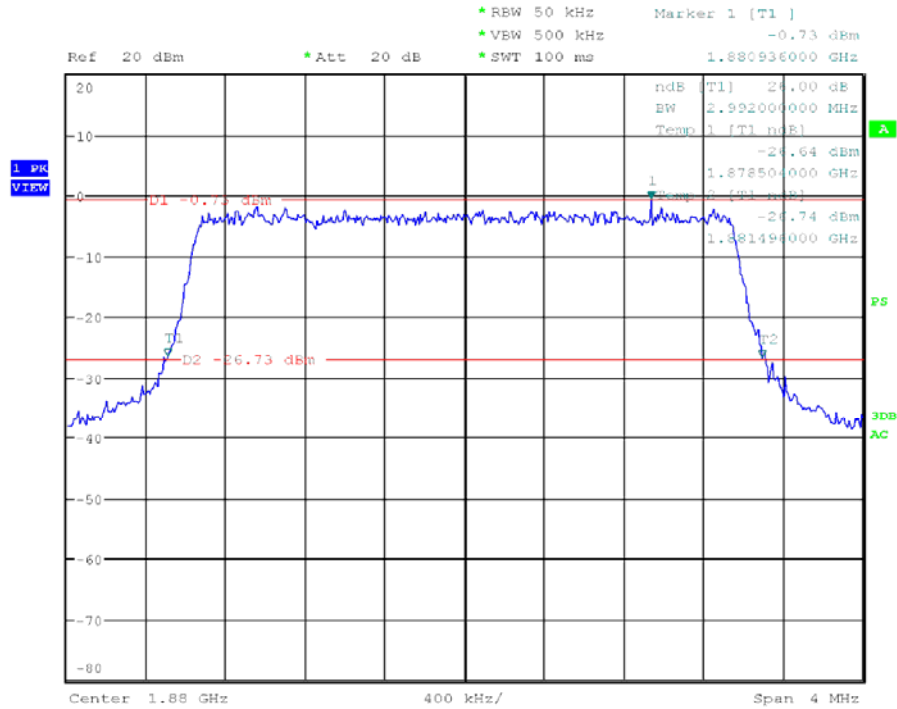
Diagram 34_205_26 dB

16-QAM-Modulation



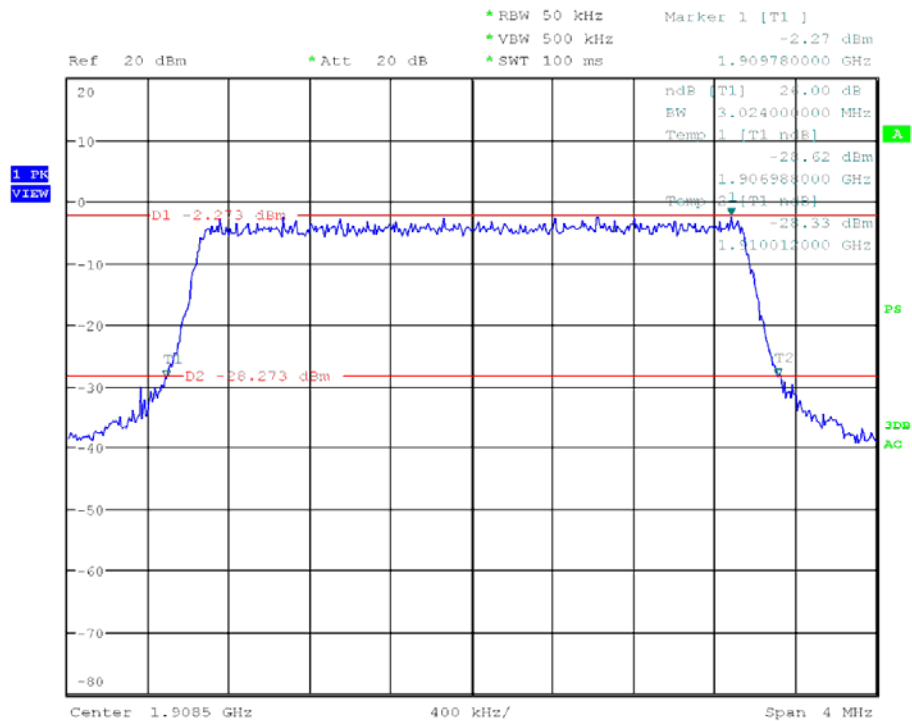
Date: 13.JAN.2017 13:22:39

Diagram 34_221_26 dB



Date: 13.JAN.2017 13:23:32

Diagram 34_222_26 dB

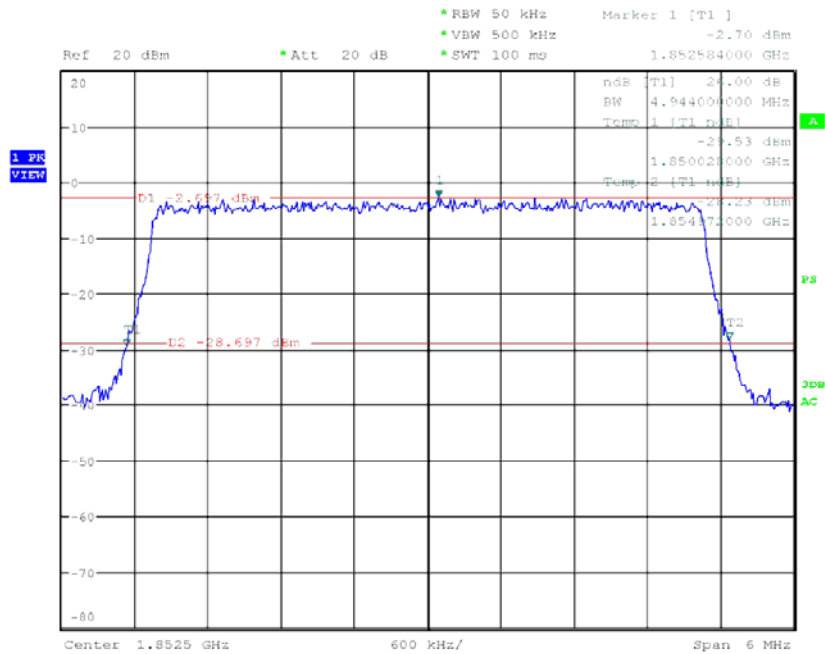


Date: 13.JAN.2017 13:24:01

Diagram 34_223_26 dB

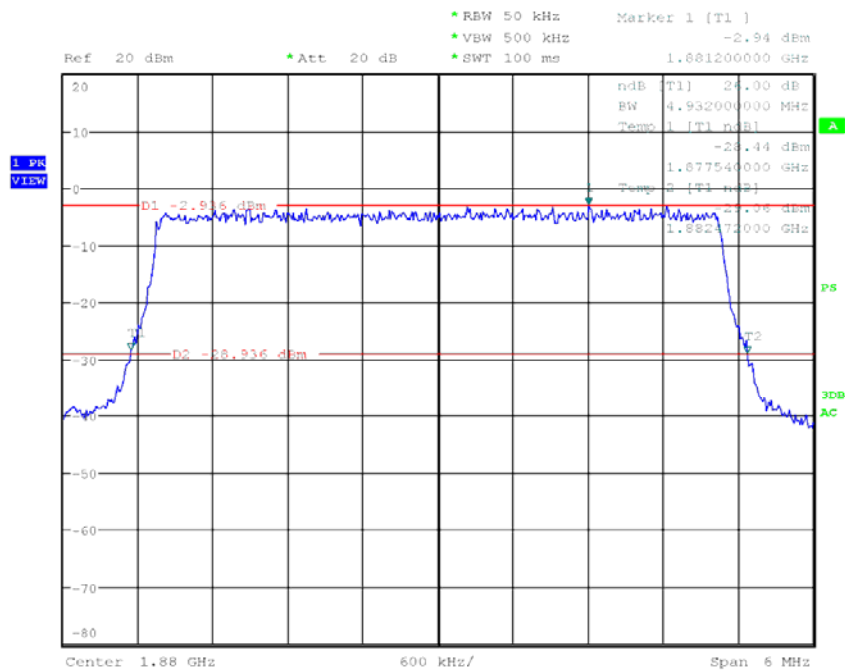
1.17.1.3. BW = 5MHz

QPSK-Modulation



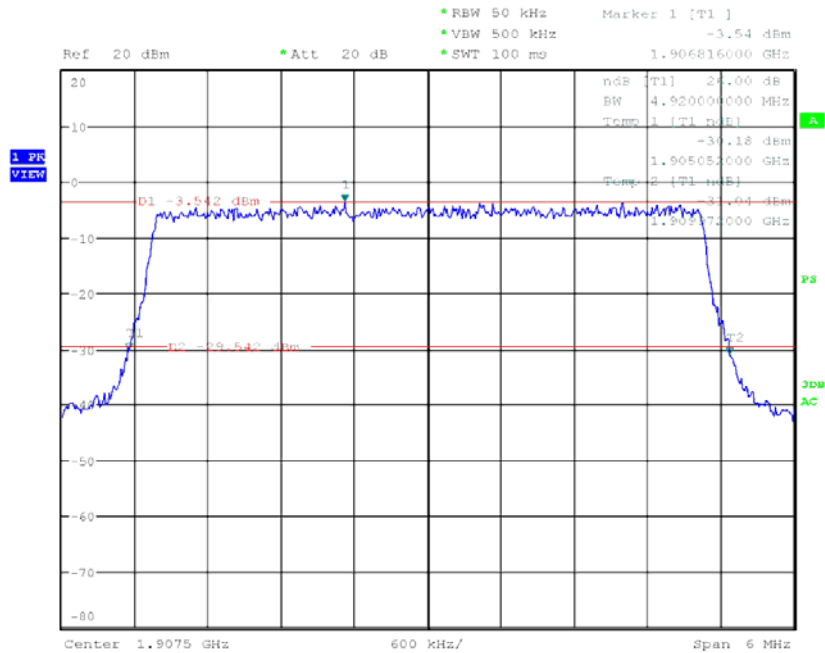
Date: 13.JAN.2017 12:31:43

Diagram 34_206_26 dB



Date: 13.JAN.2017 12:34:51

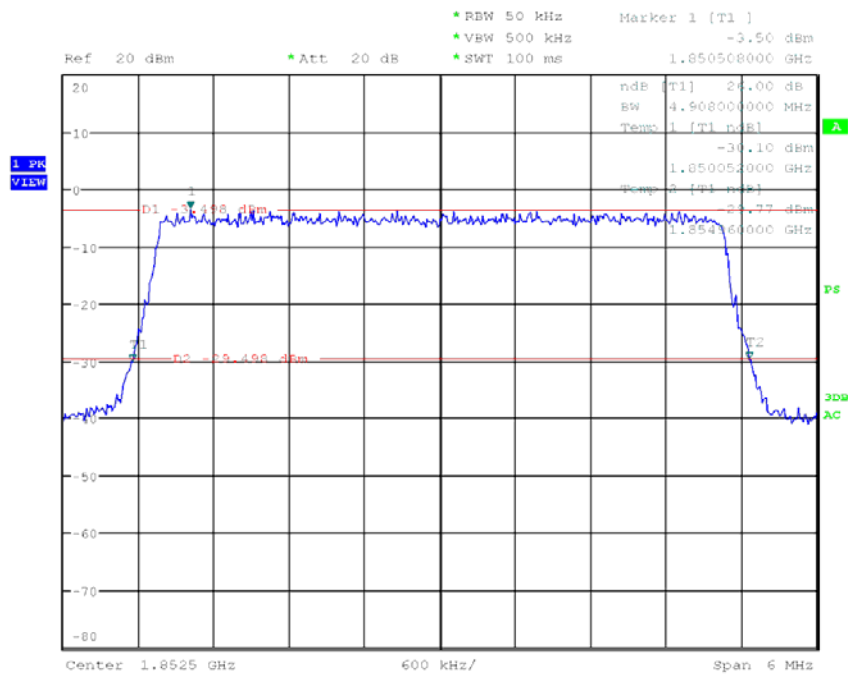
Diagram 34_207_26 dB



Date: 13.JAN.2017 12:36:13

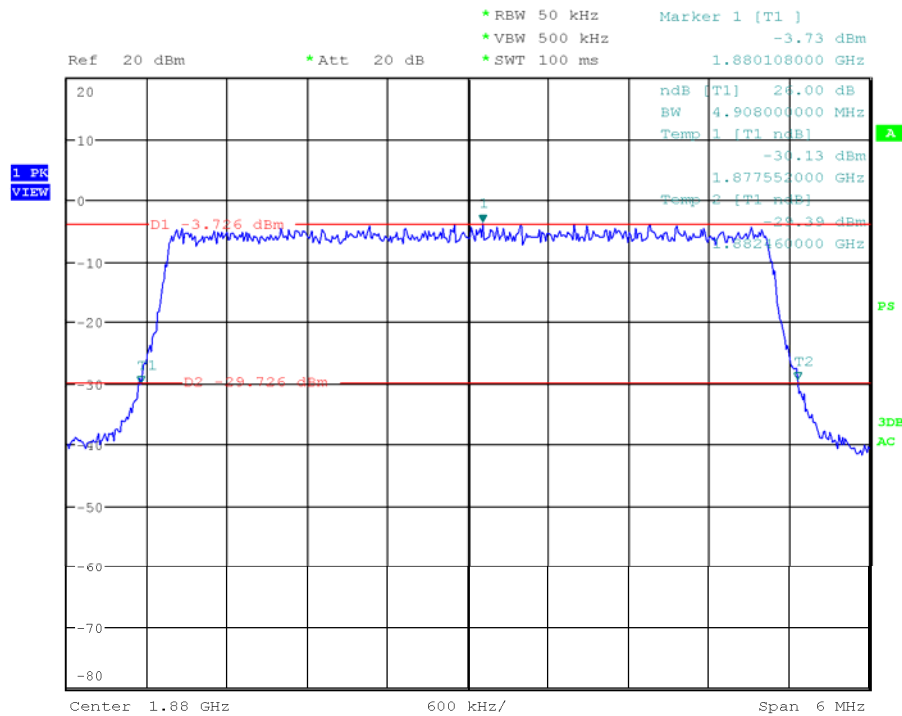
Diagram 34_208_26 dB

16-QAM-Modulation



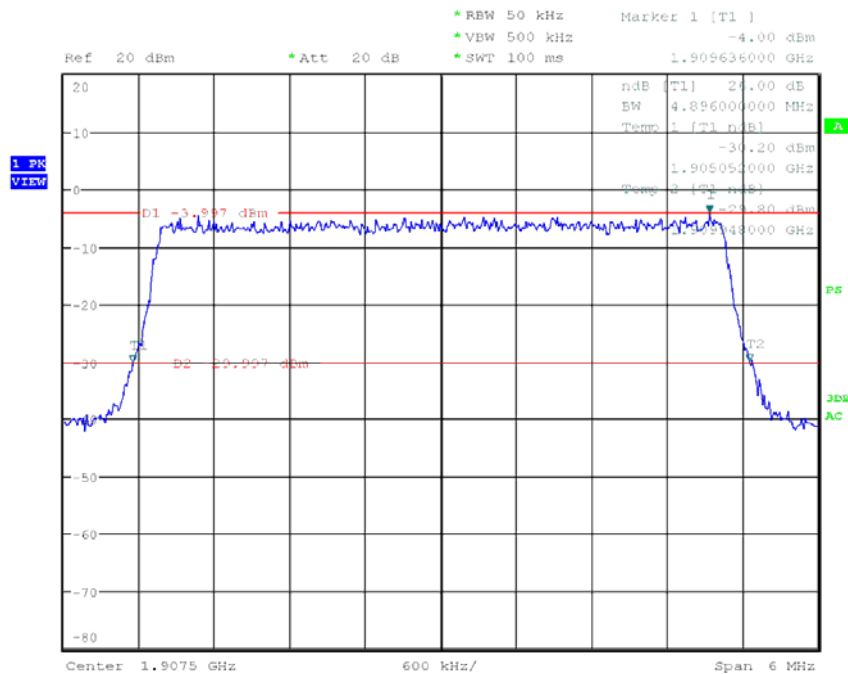
Date: 13.JAN.2017 13:25:22

Diagram 34_224_26 dB



Date: 13.JAN.2017 13:26:15

Diagram 34_225_26 dB

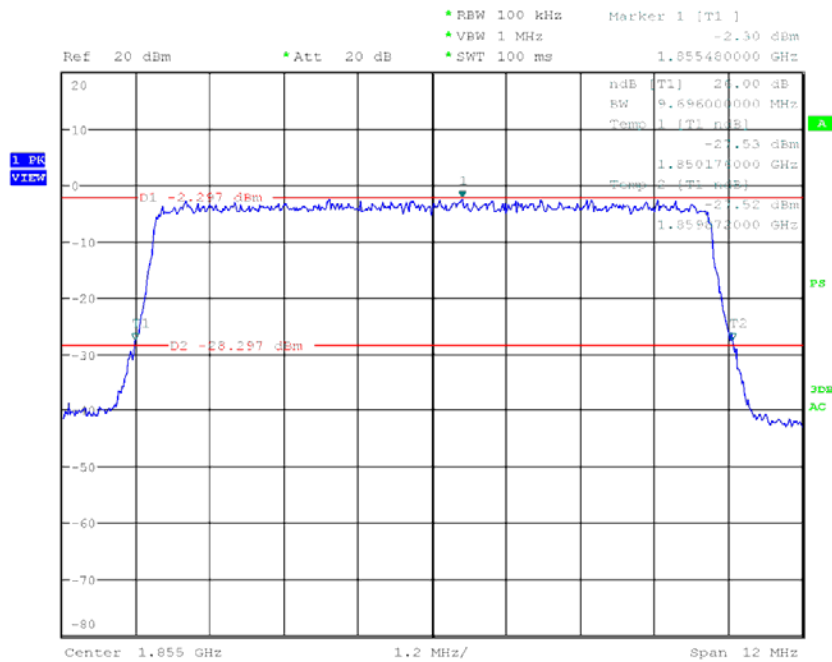


Date: 13.JAN.2017 13:26:59

Diagram 34_226_26 dB

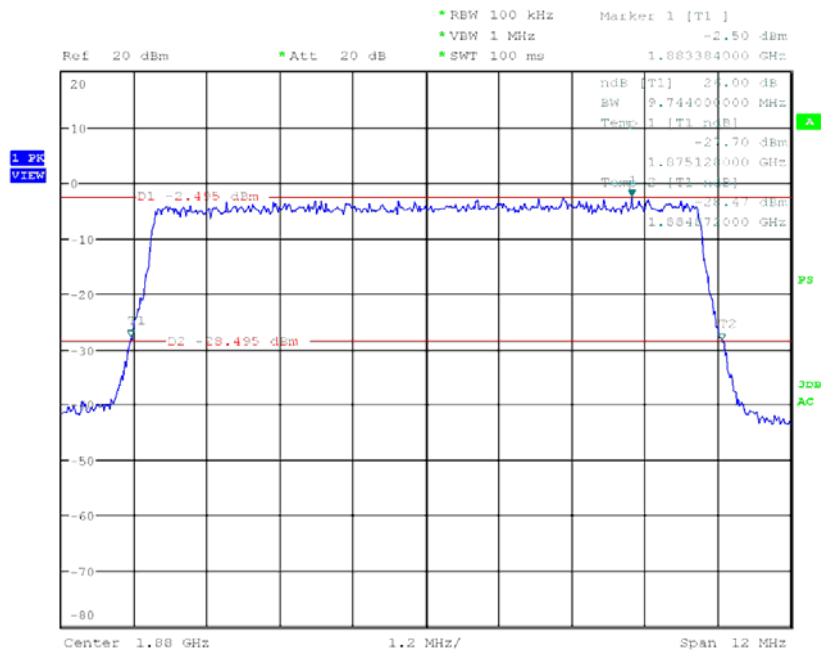
1.17.1.4. BW = 10MHz

QPSK-Modulation



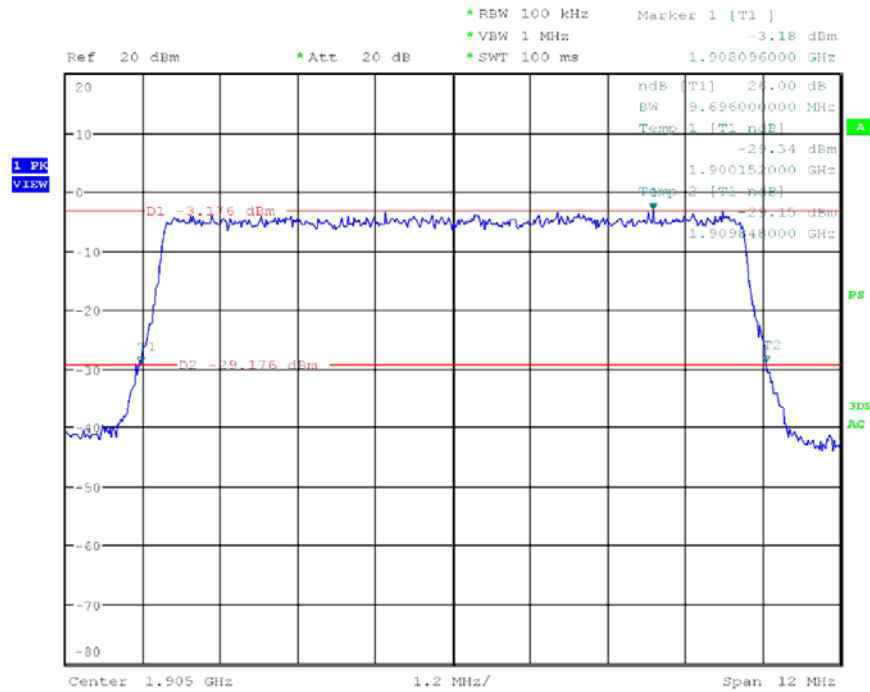
Date: 13.JAN.2017 12:41:03

Diagram 34_209_26 dB



Date: 13.JAN.2017 12:41:52

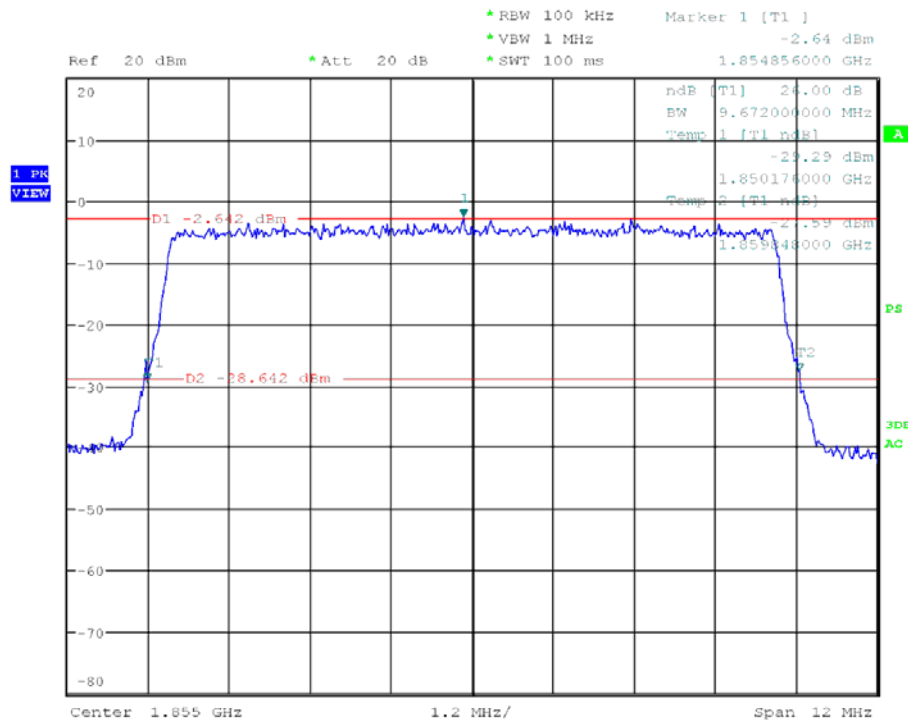
Diagram 34_210_26 dB



Date: 13.JAN.2017 12:42:45

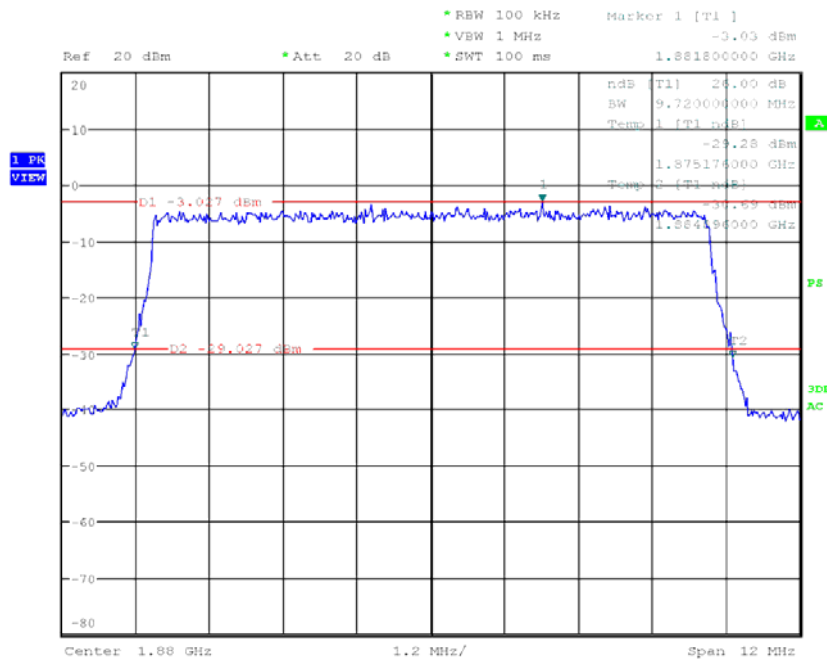
Diagram 34_211_26 dB

16-QAM-Modulation



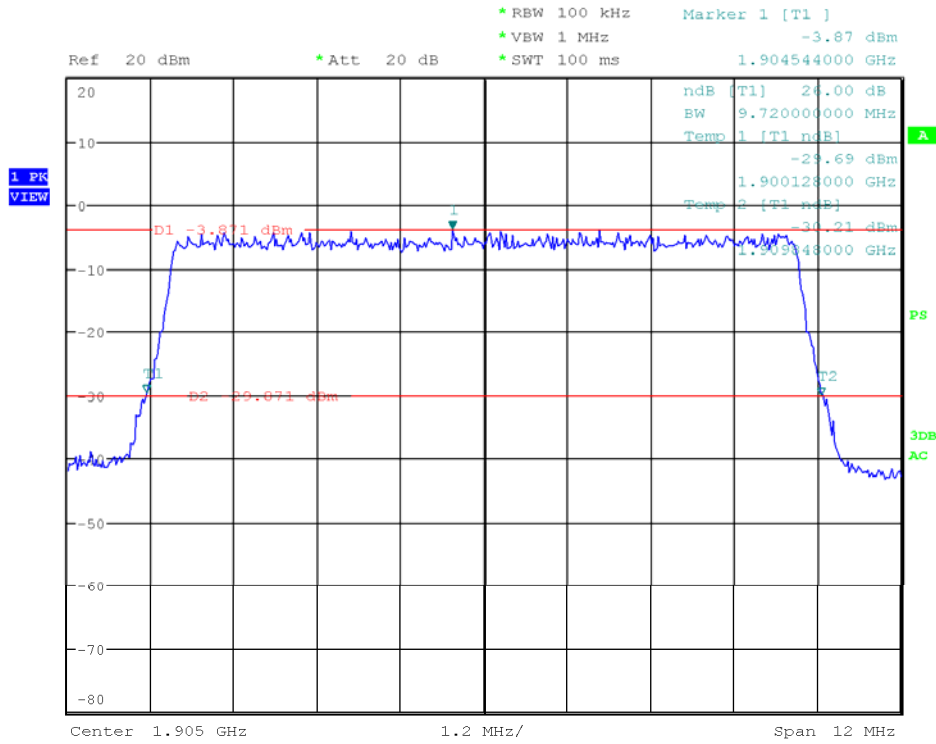
Date: 13.JAN.2017 13:27:58

Diagram 34_227_26 dB



Date: 13.JAN.2017 13:28:50

Diagram 34_228_26 dB

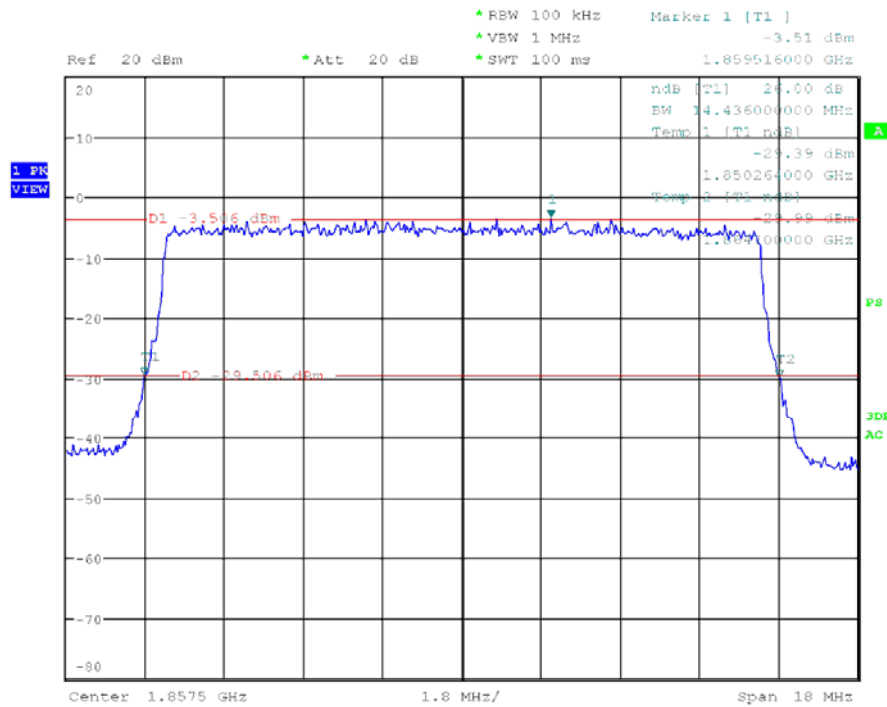


Date: 13.JAN.2017 13:29:55

Diagram 34_229_26 dB

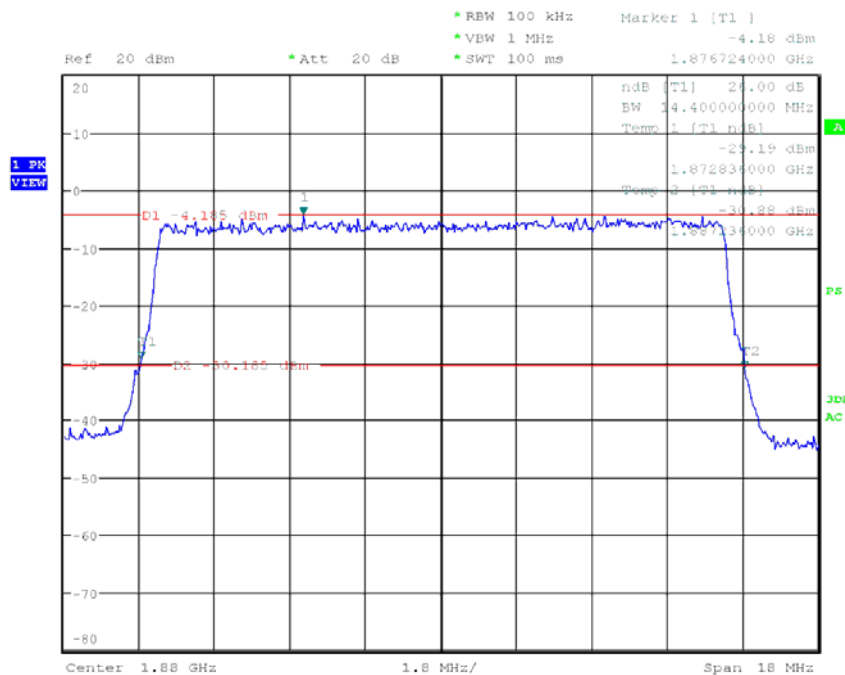
1.17.1.5. BW = 15MHz

QPSK-Modulation



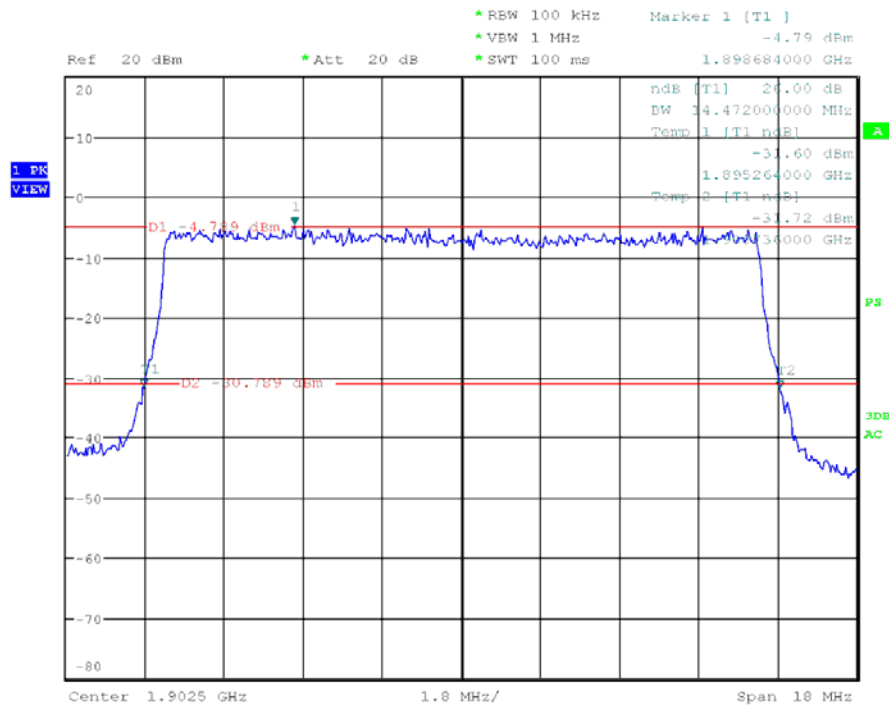
Date: 13.JAN.2017 12:44:11

Diagram 34_212_26 dB



Date: 13.JAN.2017 12:45:11

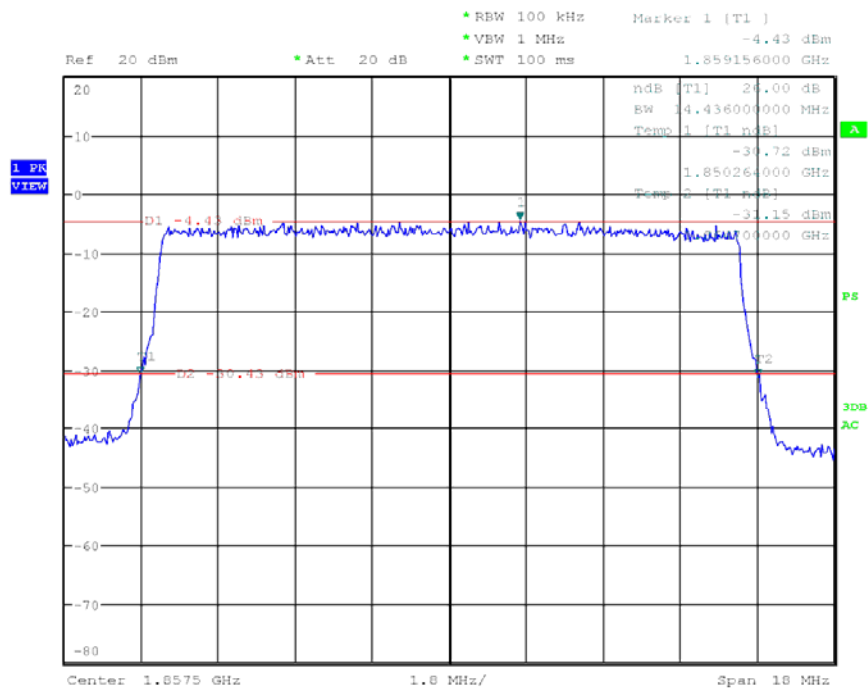
Diagram 34_213_26 dB



Date: 13.JAN.2017 12:46:23

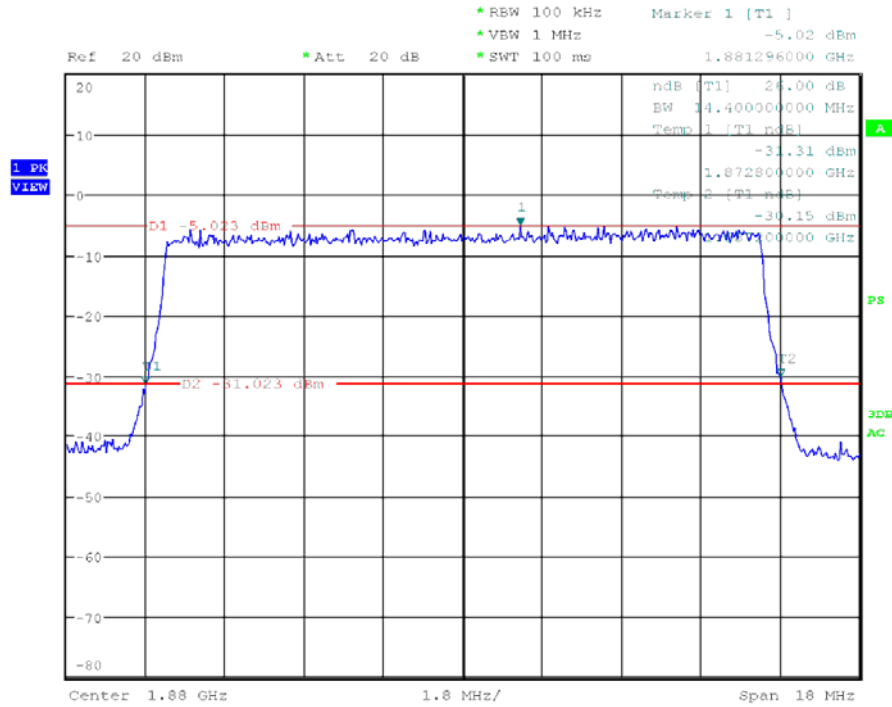
Diagram 34_214_26 dB

16-QAM-Modulation



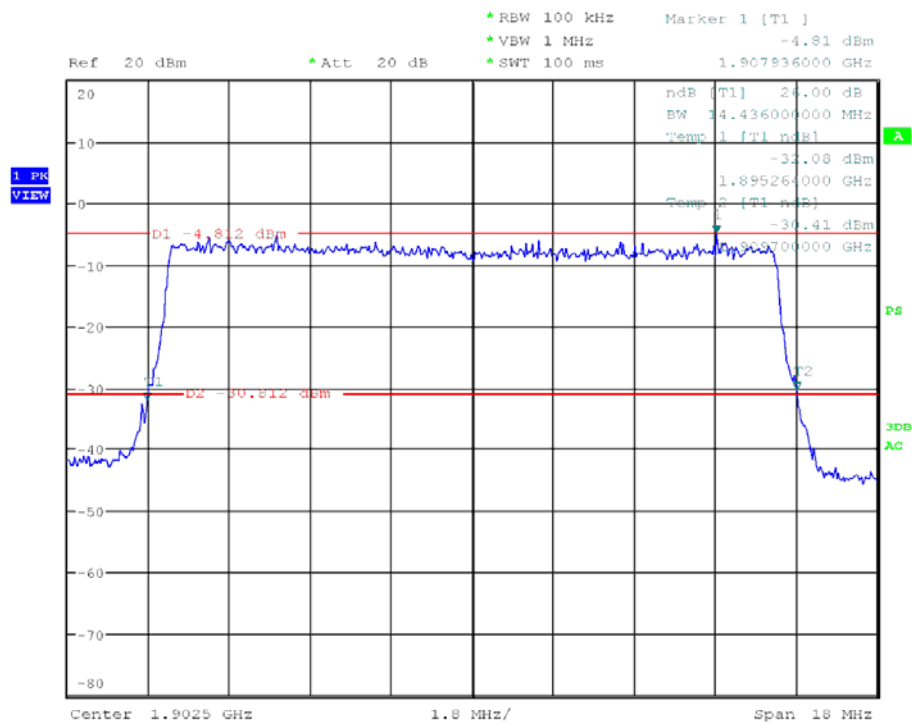
Date: 13.JAN.2017 13:31:30

Diagram 34_230_26 dB



Date: 13.JAN.2017 13:32:10

Diagram 34_231_26 dB

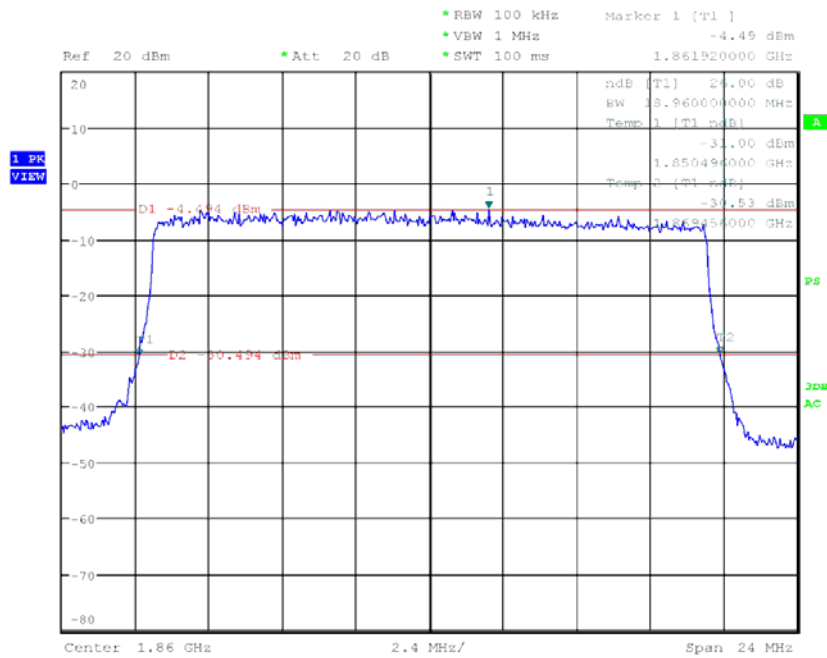


Date: 13.JAN.2017 13:32:50

Diagram 34_232_26 dB

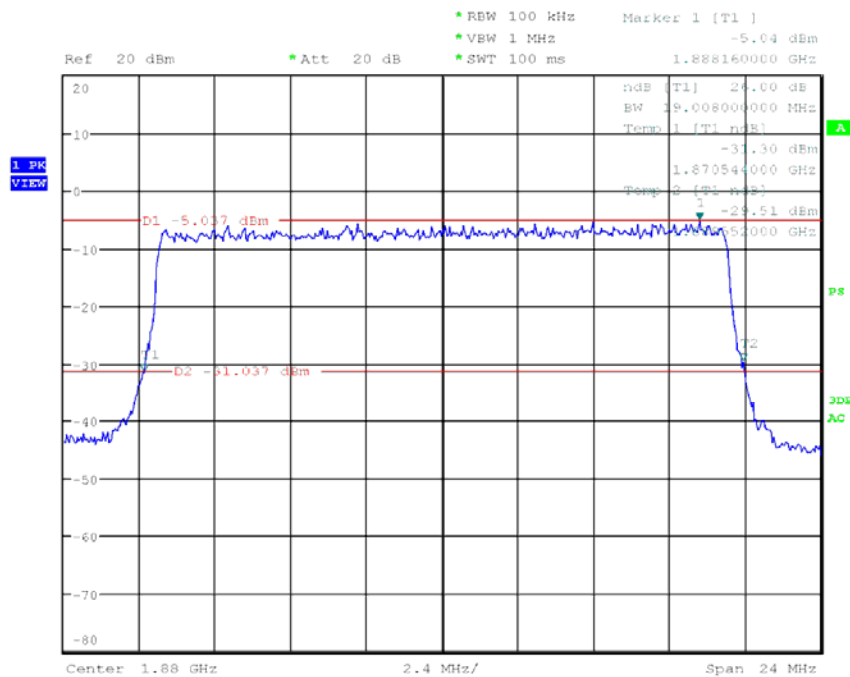
1.17.1.6. BW = 20MHz

QPSK-Modulation



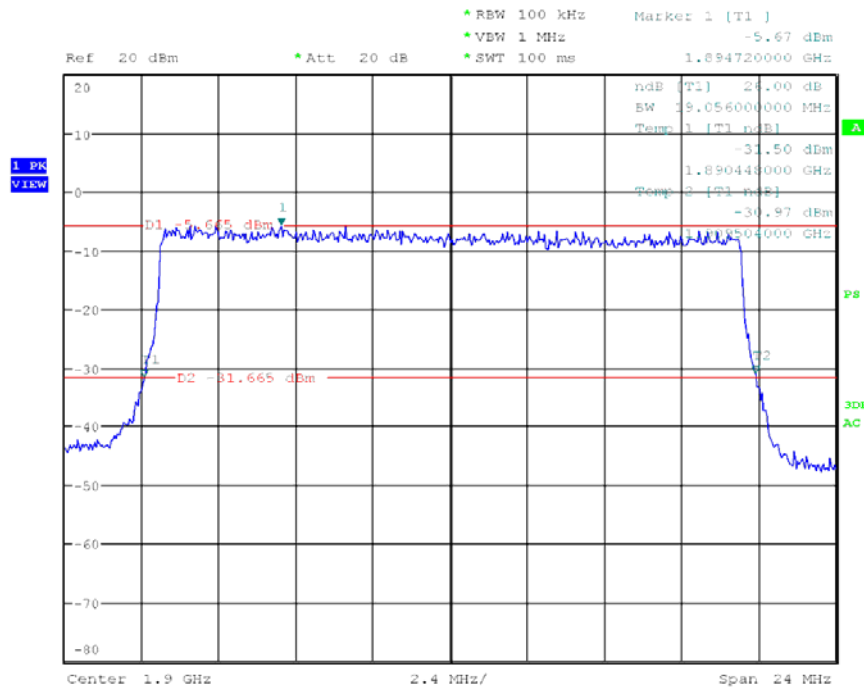
Date: 13.JAN.2017 12:48:26

Diagram 34_215_26 dB



Date: 13.JAN.2017 13:06:36

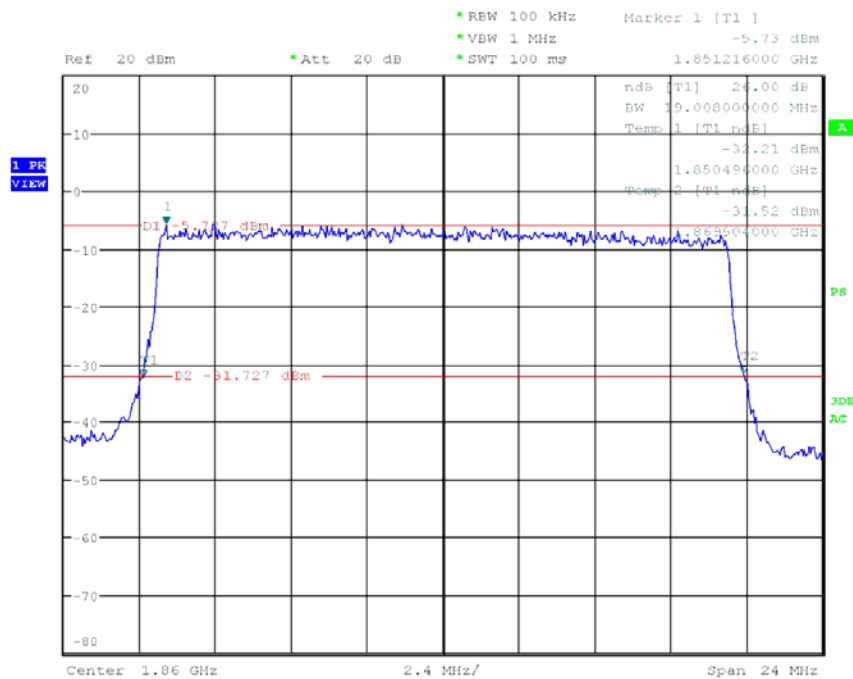
Diagram 34_216_26 dB



Date: 13.JAN.2017 13:09:27

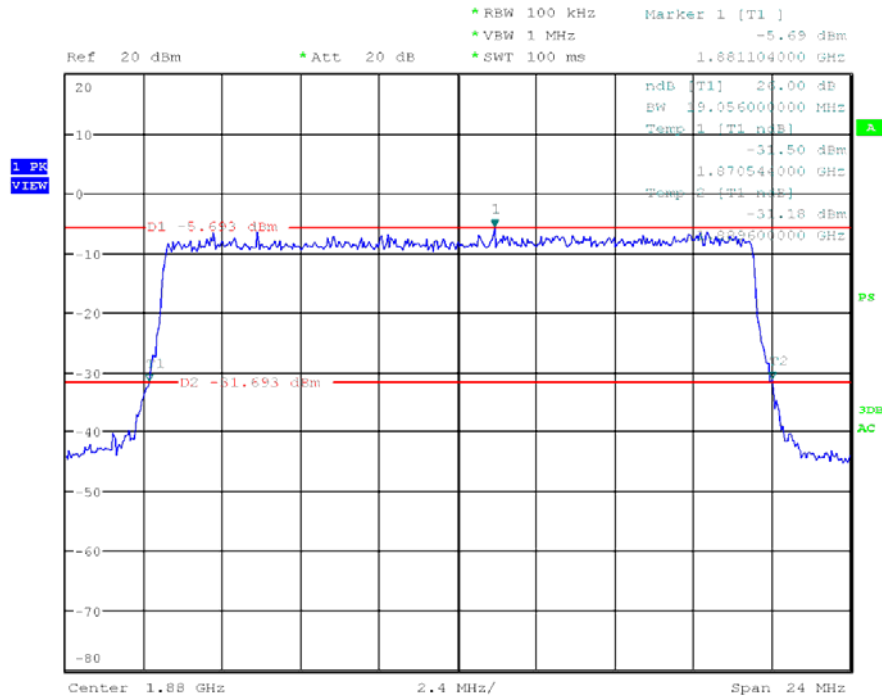
Diagram 34_217_26 dB

16-QAM-Modulation



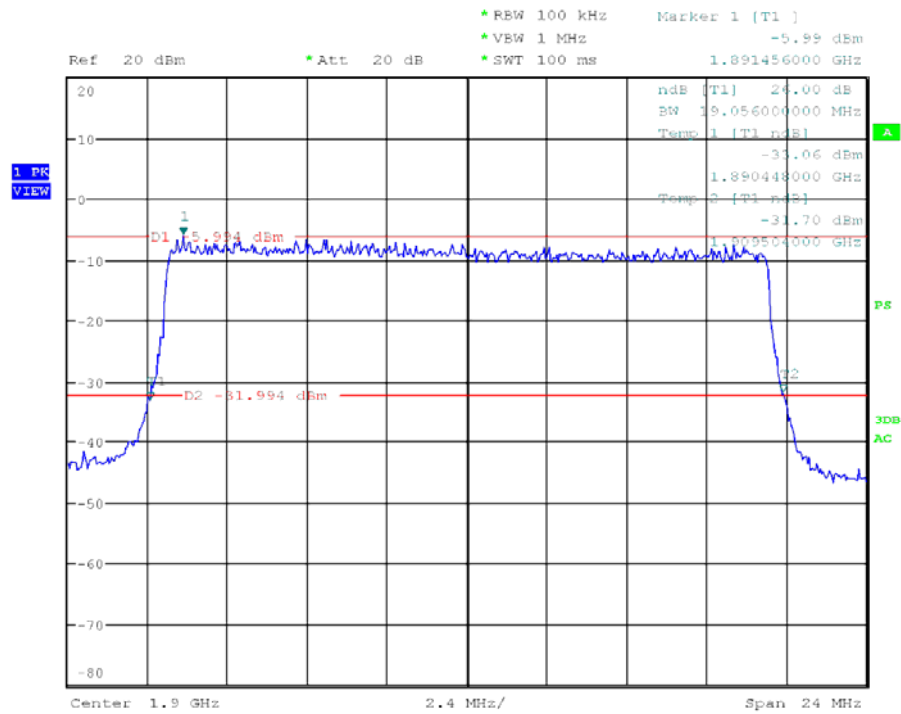
Date: 13.JAN.2017 13:34:17

Diagram 34_233_26 dB



Date: 13.JAN.2017 13:35:18

Diagram 34_234_26 dB



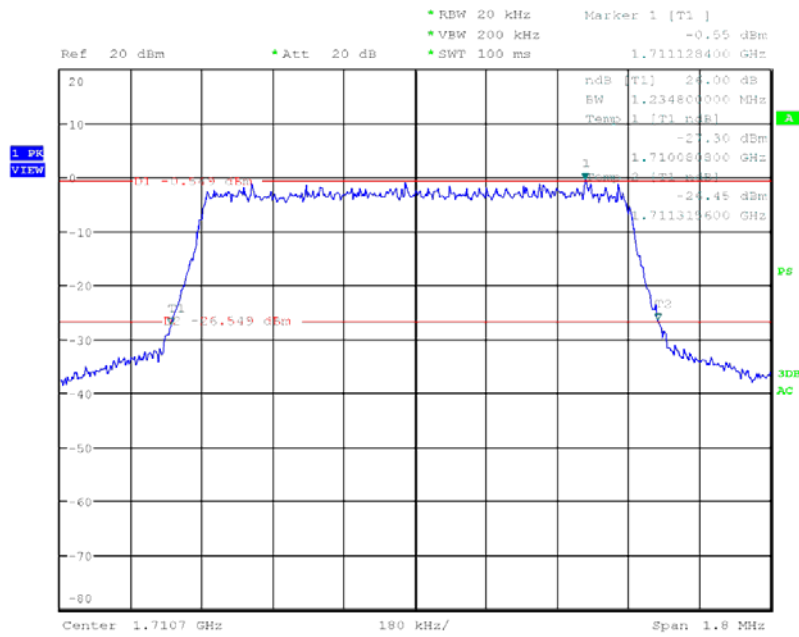
Date: 13.JAN.2017 13:36:16

Diagram 34_235_26 dB

1.17.2. LTE Band 4

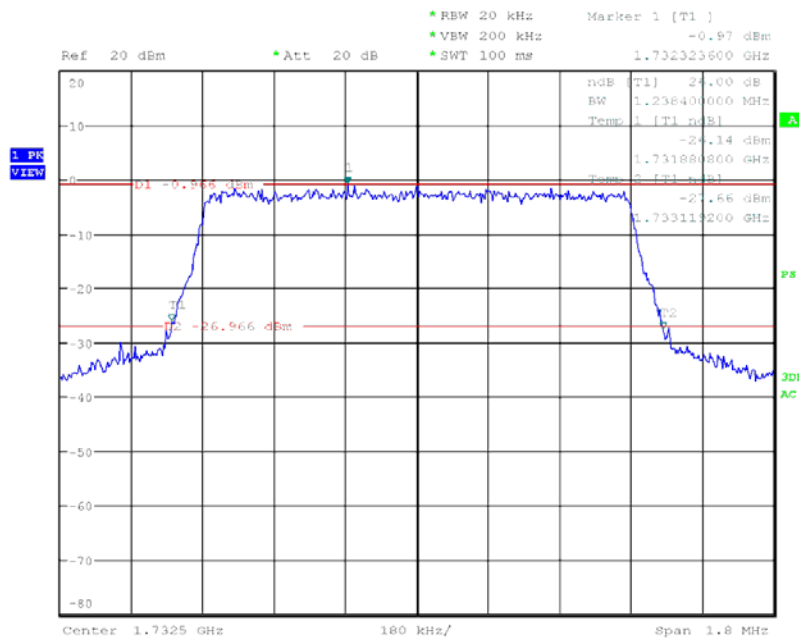
1.17.2.1. BW = 1.4MHz

QPSK-Modulation



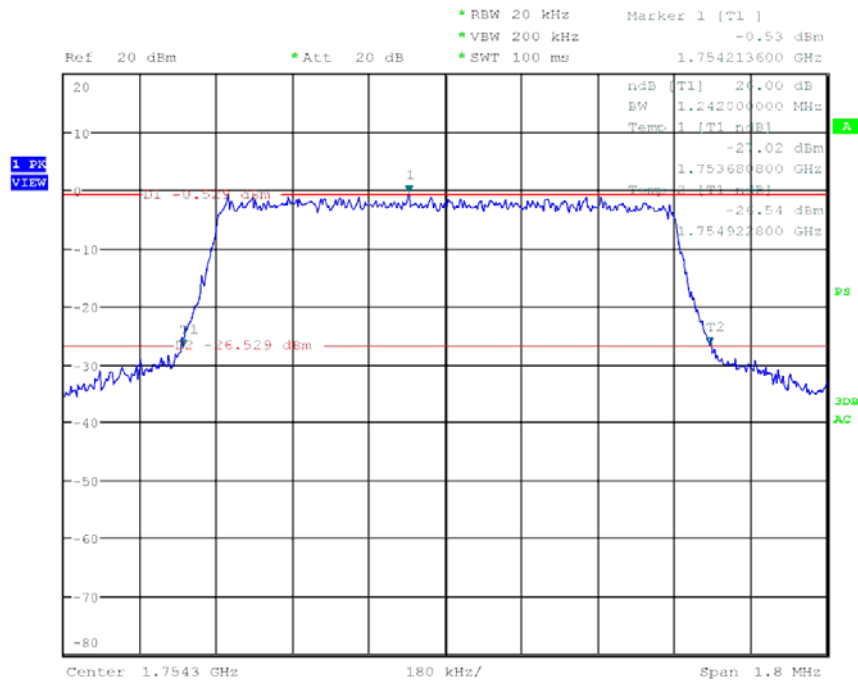
Date: 13.JAN.2017 14:14:19

Diagram 34.401_26 dB



Date: 13.JAN.2017 14:15:07

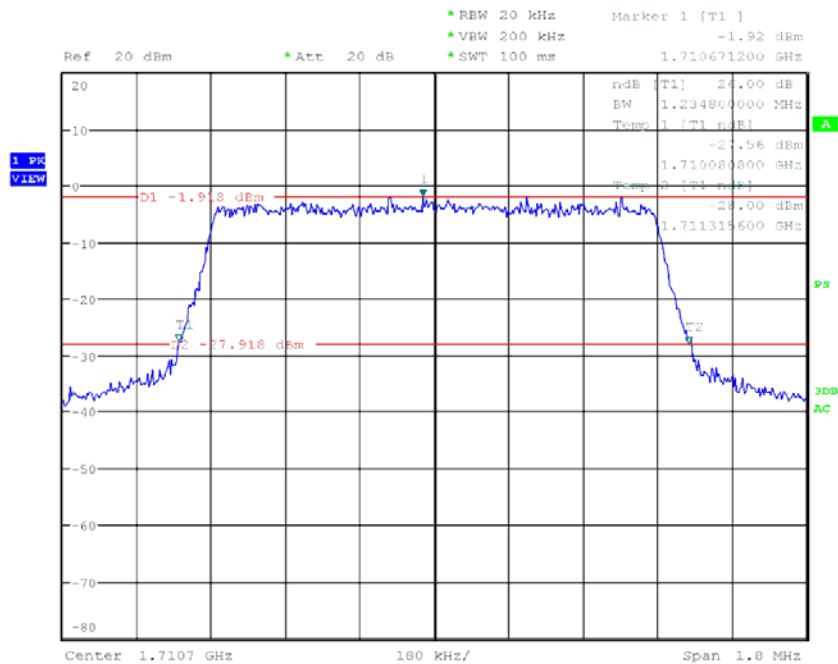
Diagram 34.402_26 dB



Date: 13.JAN.2017 14:15:59

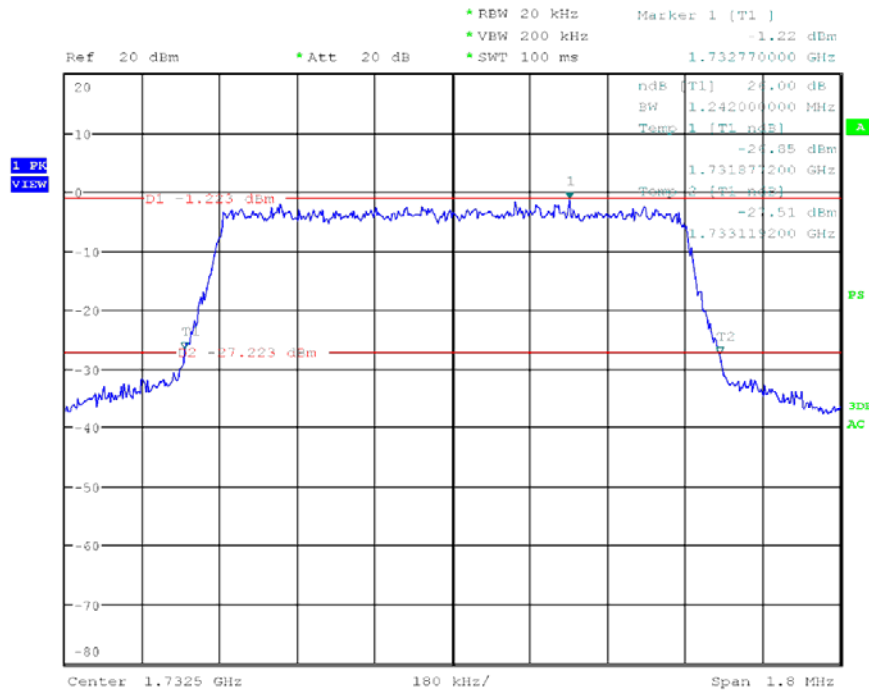
Diagram 34.403_26 dB

16-QAM-Modulation



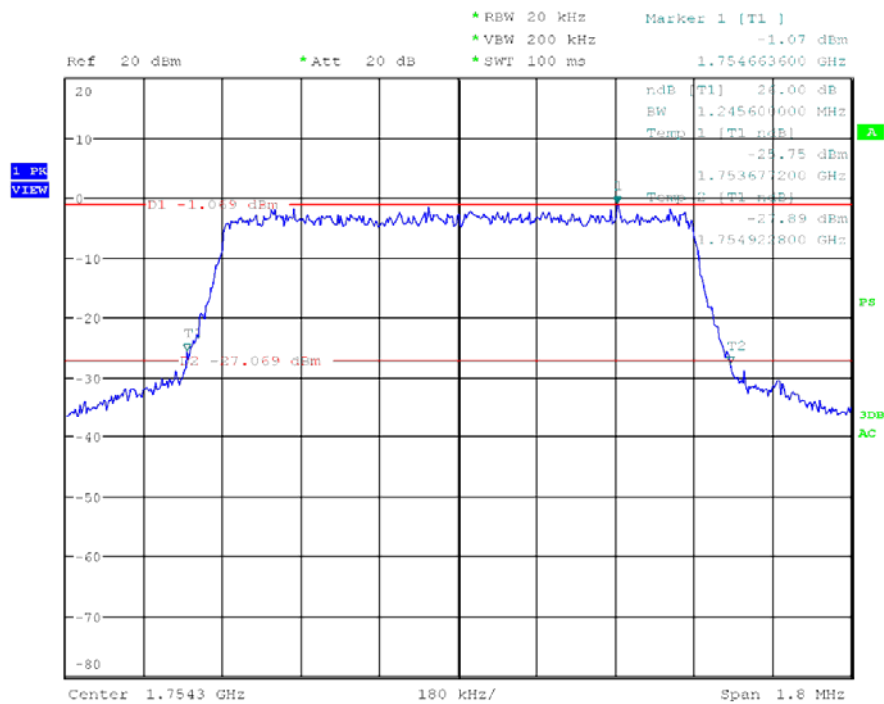
Date: 13.JAN.2017 14:32:59

Diagram 34.419_26 dB



Date: 13.JAN.2017 14:33:40

Diagram 34.420_26 dB

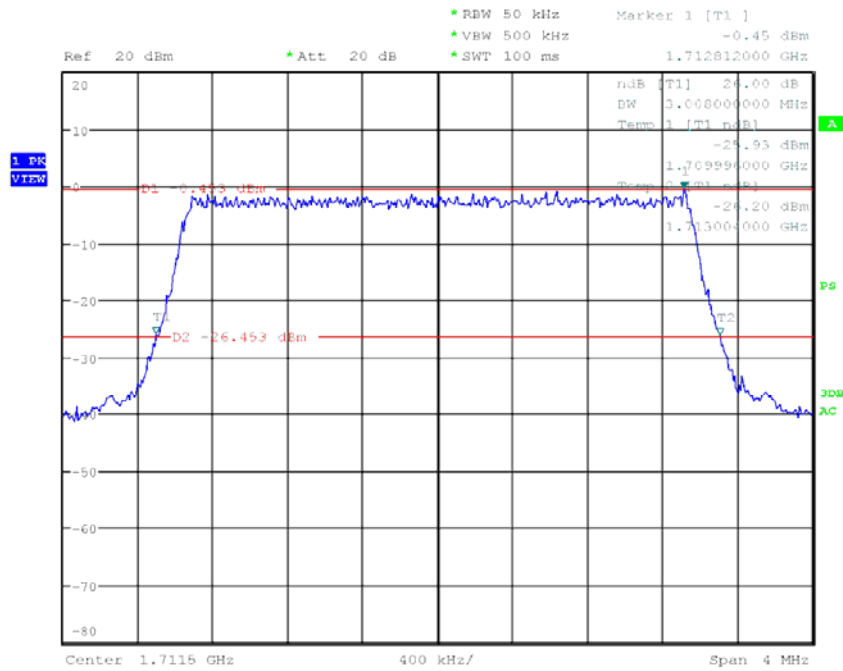


Date: 13.JAN.2017 14:34:10

Diagram 34.421_26 dB

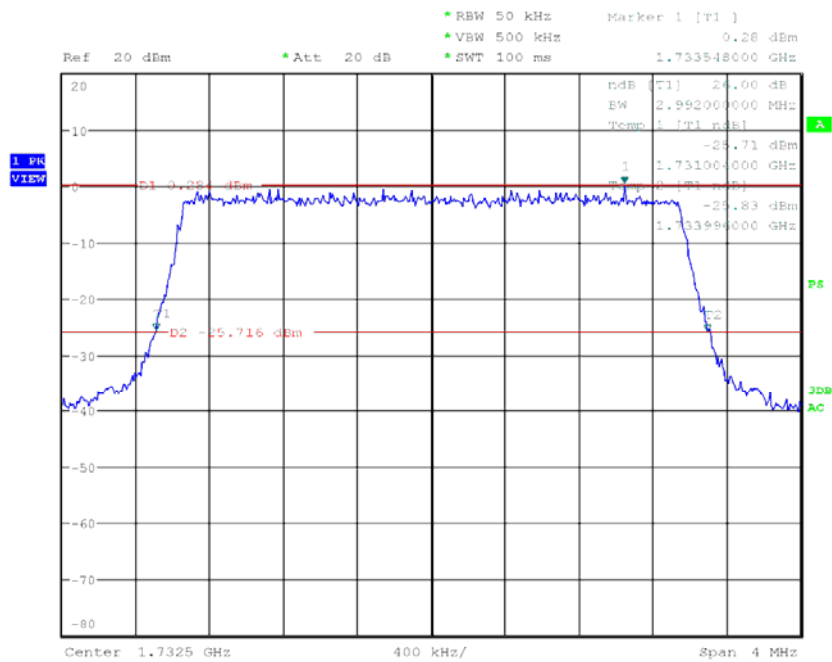
1.17.2.2. BW = 3MHz

QPSK-Modulation



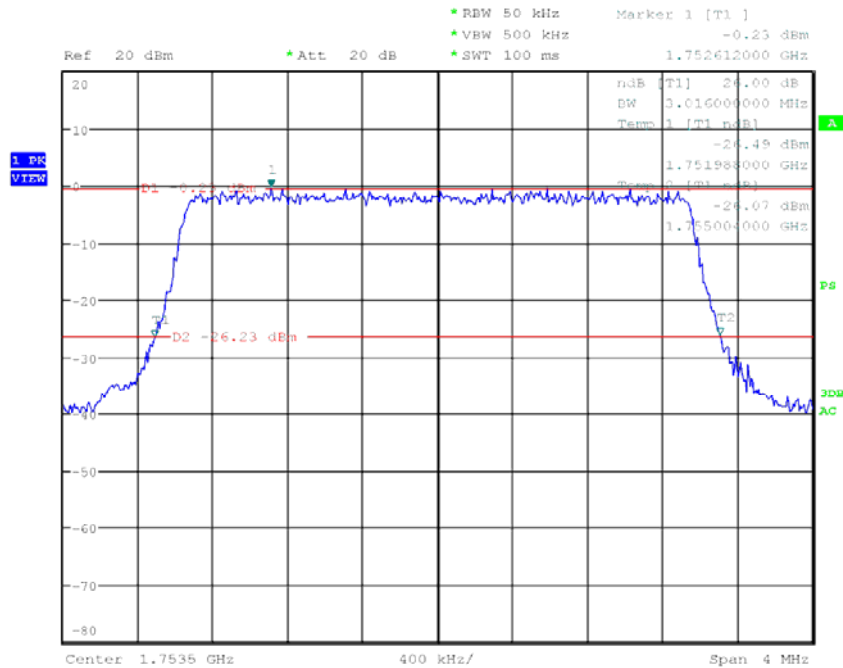
Date: 13.JAN.2017 14:17:10

Diagram 34.404_26 dB



Date: 13.JAN.2017 14:18:52

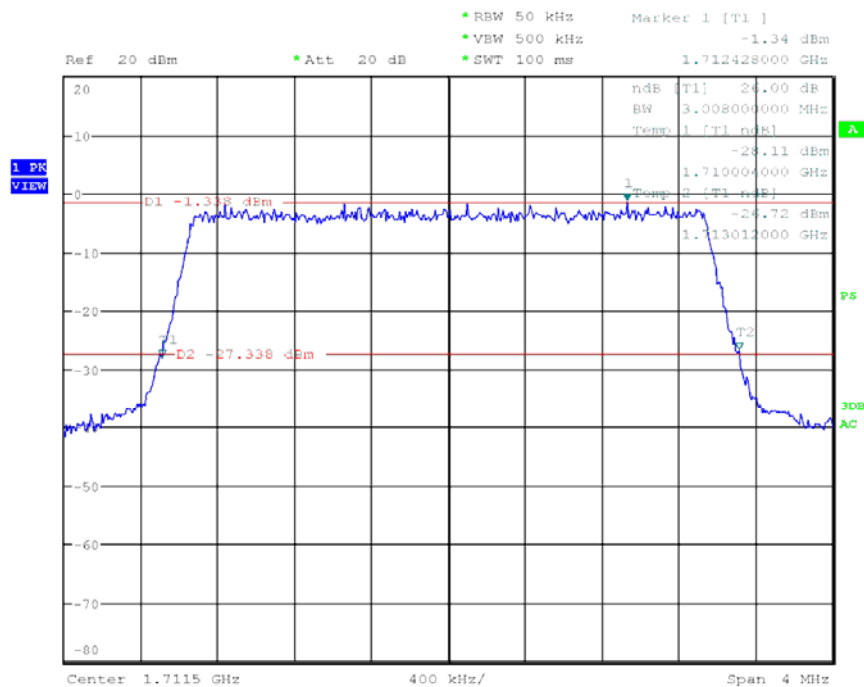
Diagram 34.405_26 dB



Date: 13.JAN.2017 14:19:46

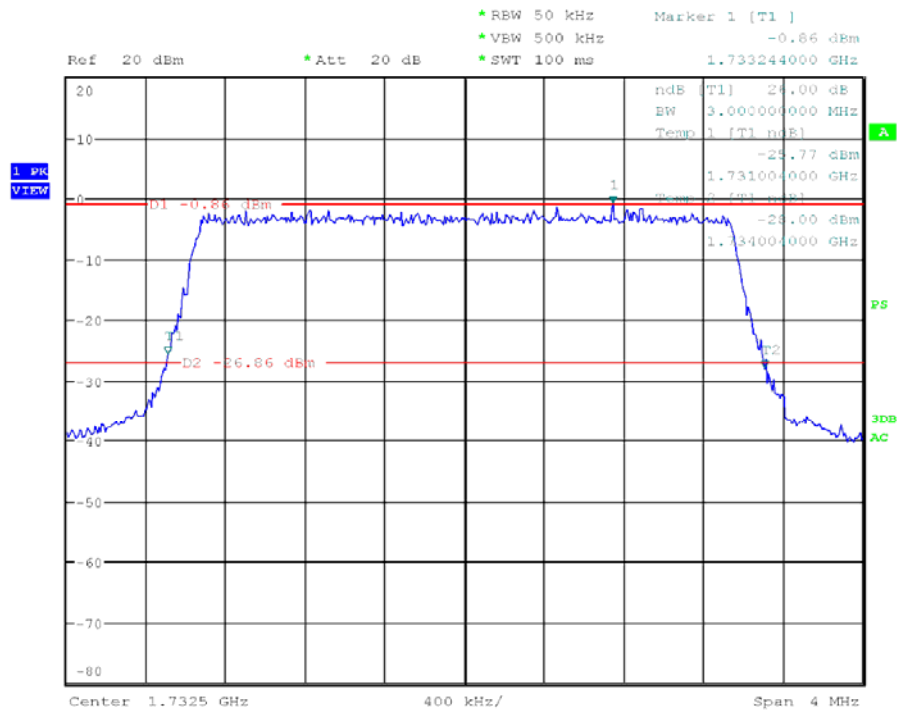
Diagram 34.406_26 dB

16-QAM-Modulation



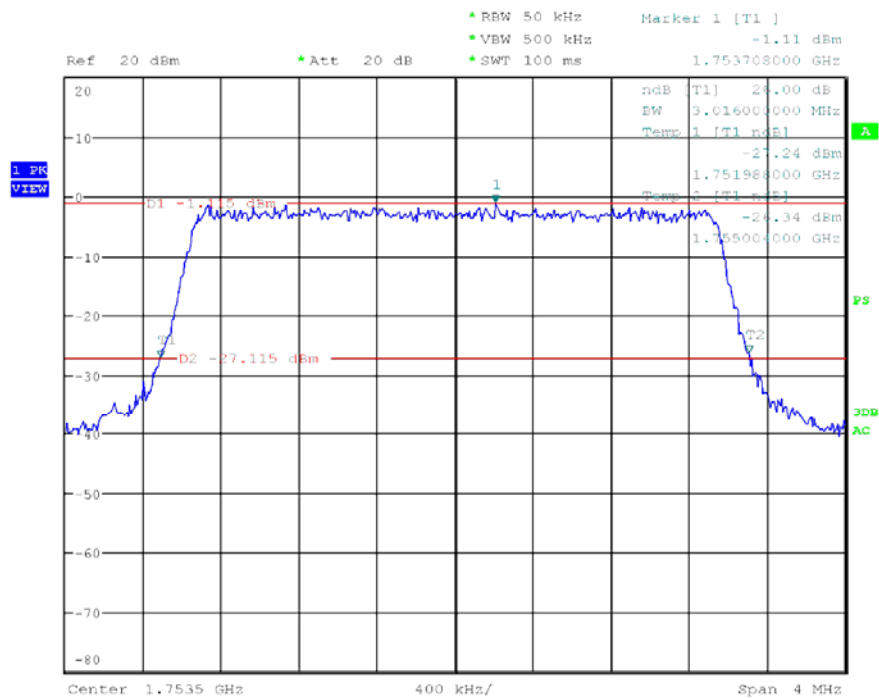
Date: 13.JAN.2017 14:35:10

Diagram 34.422_26 dB



Date: 13.JAN.2017 14:35:55

Diagram 34.423_26 dB

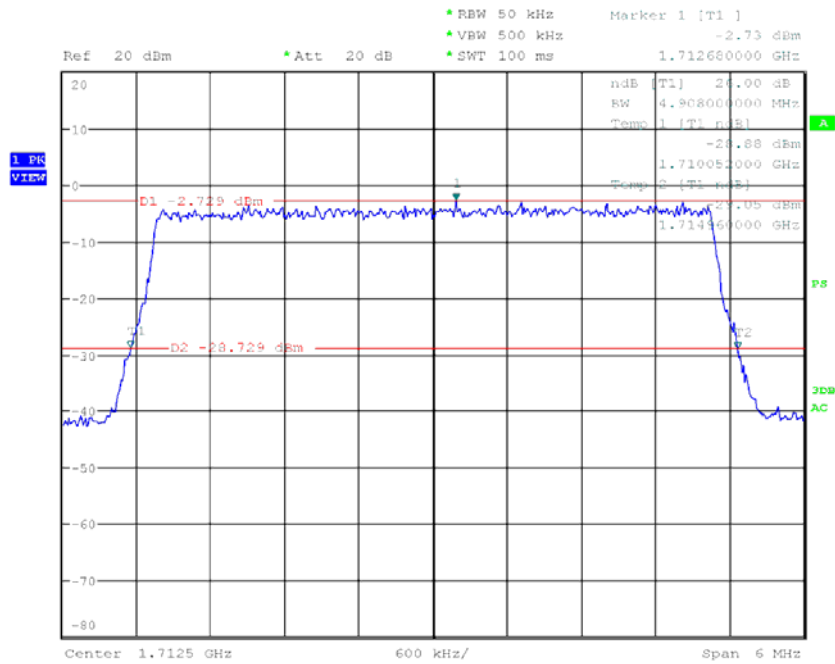


Date: 13.JAN.2017 14:36:23

Diagram 34.424_26 dB

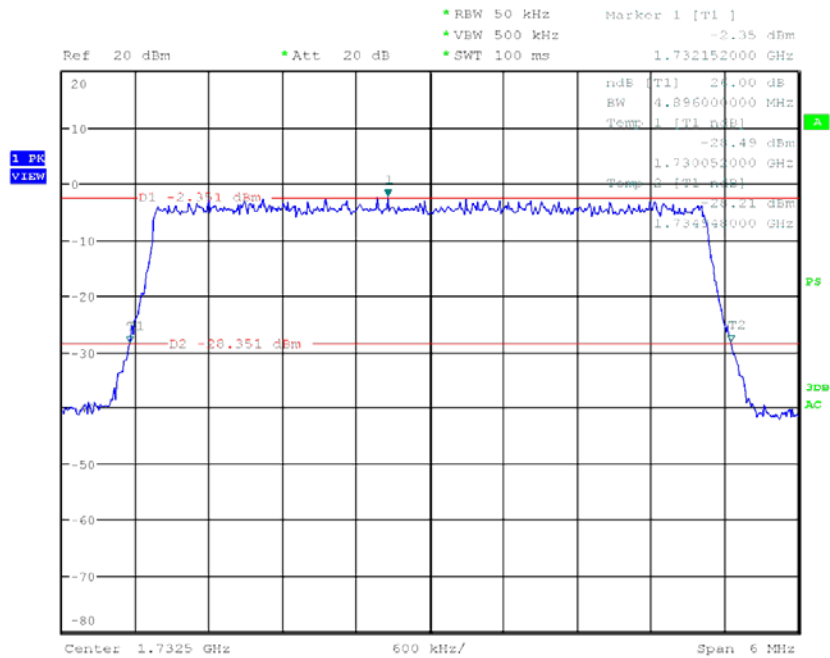
1.17.2.3. BW = 5MHz

QPSK-Modulation



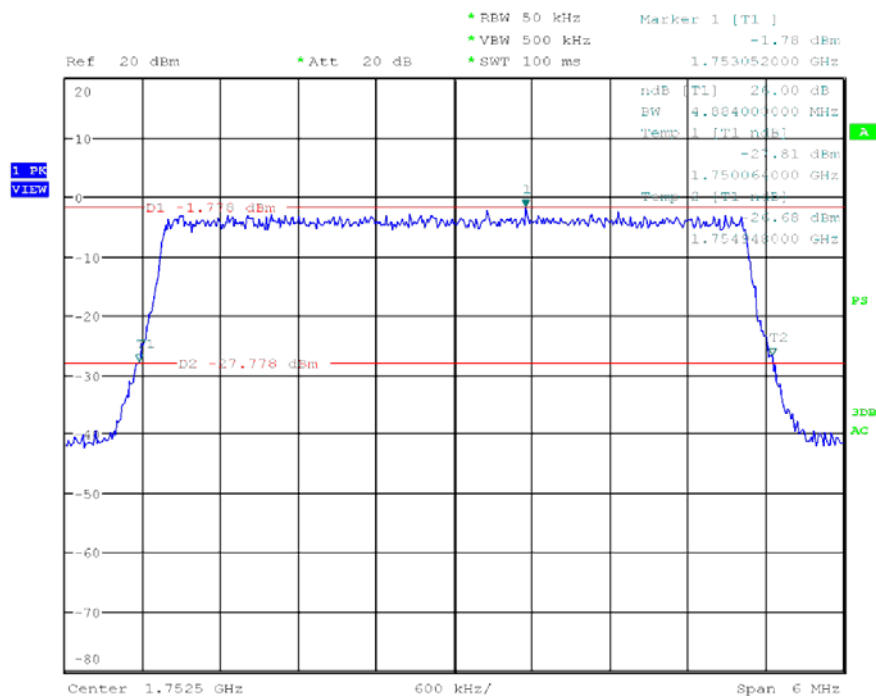
Date: 13.JAN.2017 14:21:01

Diagram 34.407_26 dB



Date: 13.JAN.2017 14:21:41

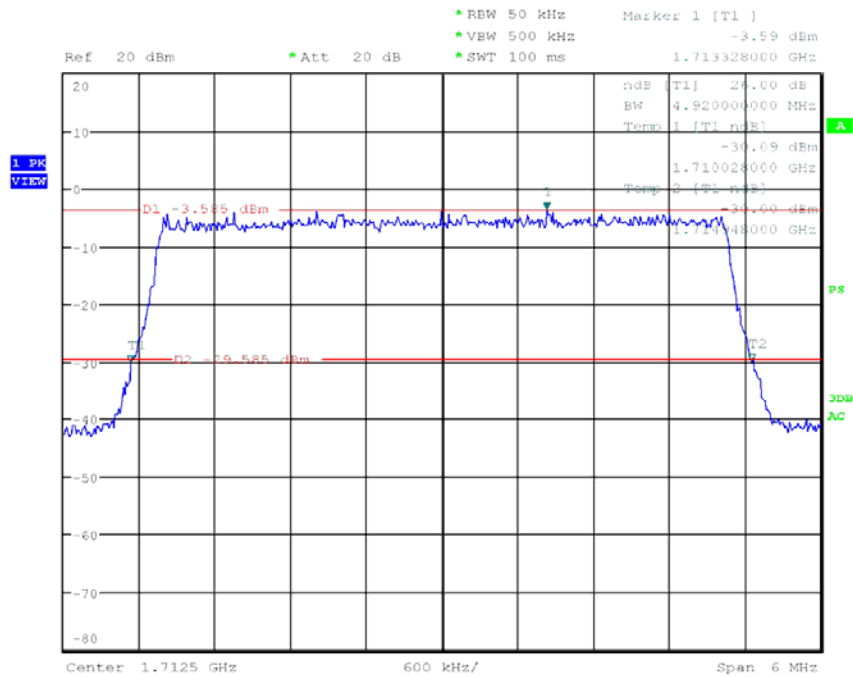
Diagram 34.408_26 dB



Date: 13.JAN.2017 14:22:32

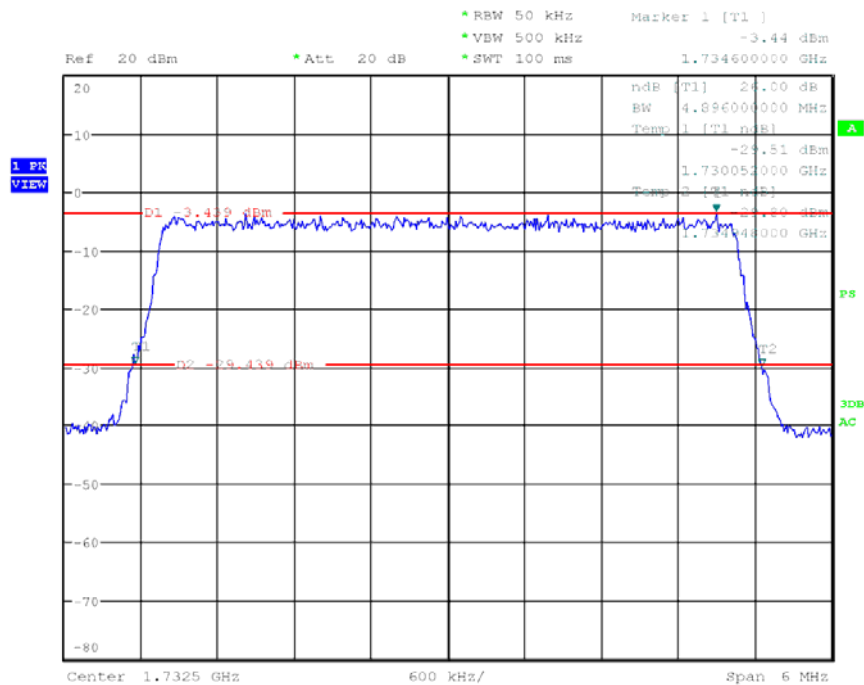
Diagram 34.409_26 dB

16-QAM-Modulation



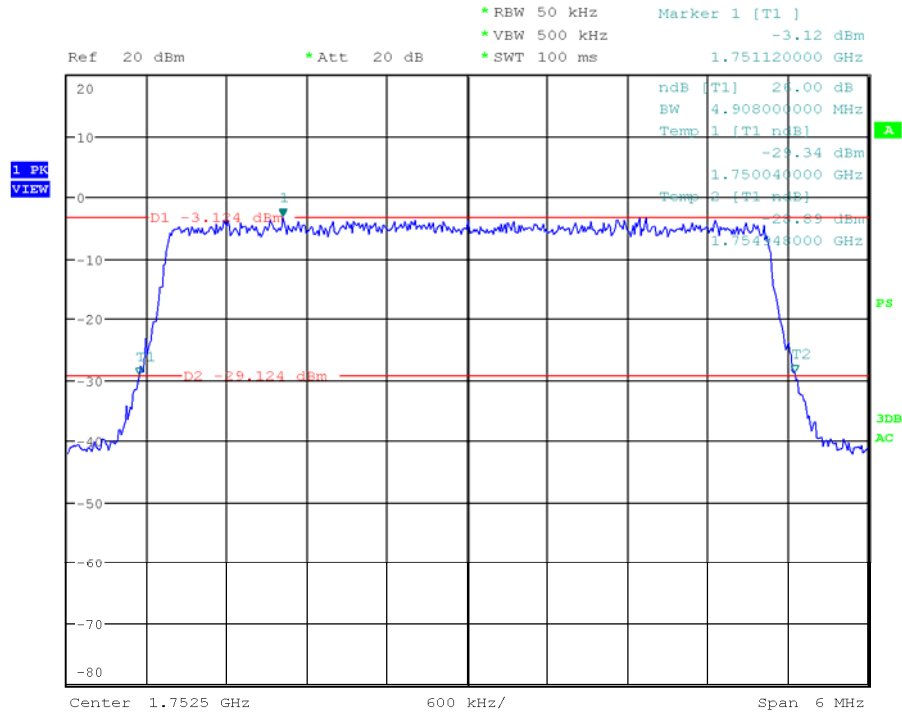
Date: 13.JAN.2017 14:37:58

Diagram 34.425_26 dB



Date: 13.JAN.2017 14:38:48

Diagram 34.426_26 dB

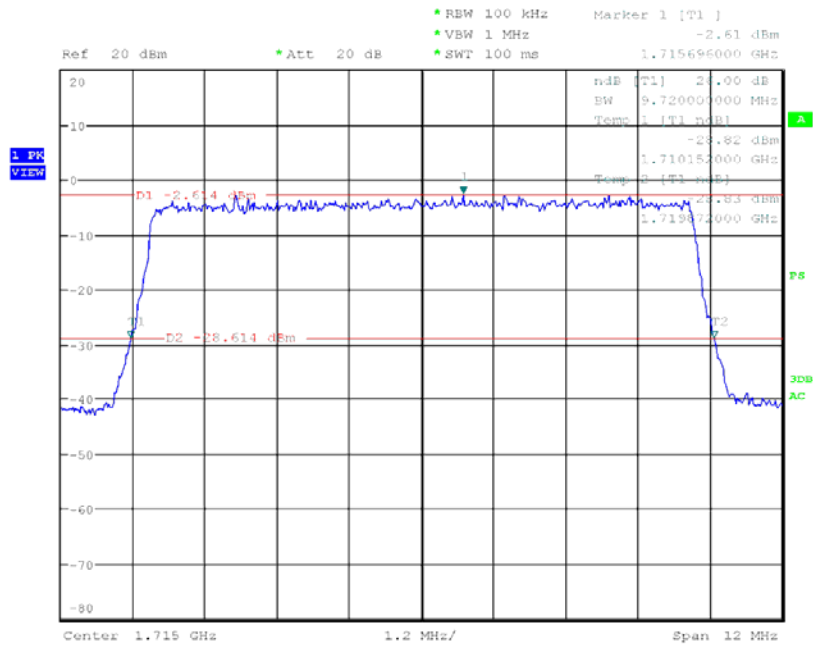


Date: 13.JAN.2017 14:39:37

Diagram 34.427_26 dB

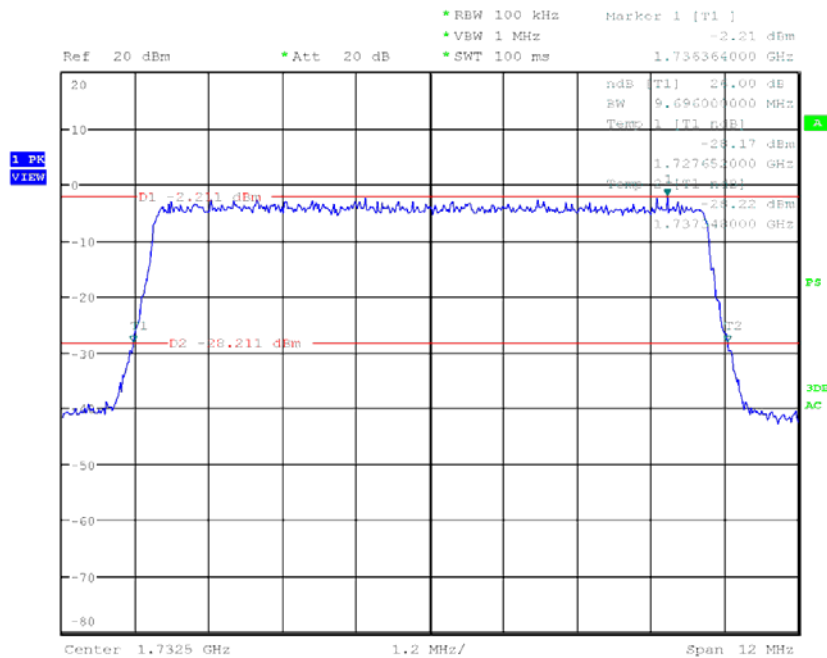
1.17.2.4. BW = 10MHz

QPSK-Modulation



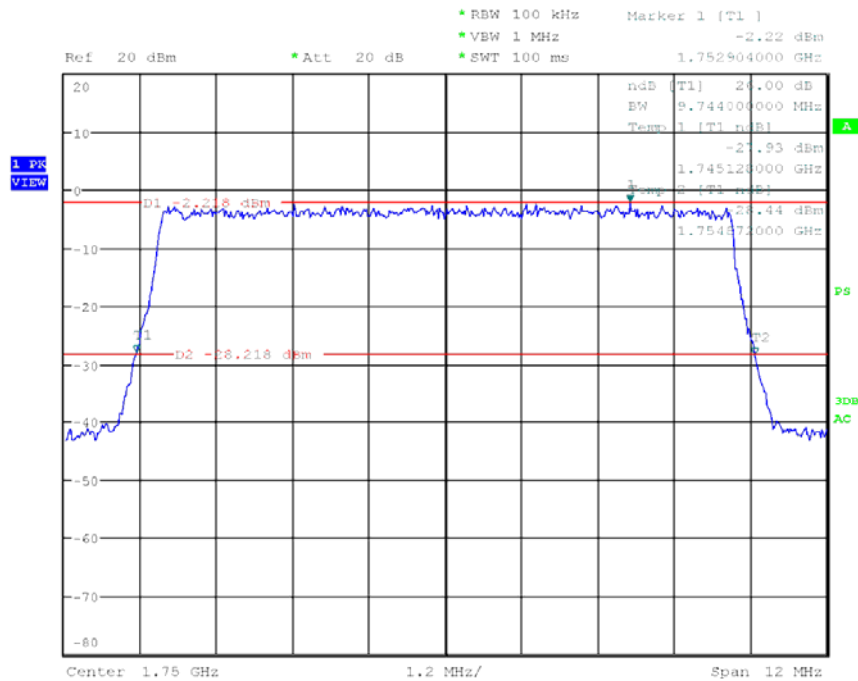
Date: 13.JAN.2017 14:23:37

Diagram 34.410_26 dB



Date: 13.JAN.2017 14:24:18

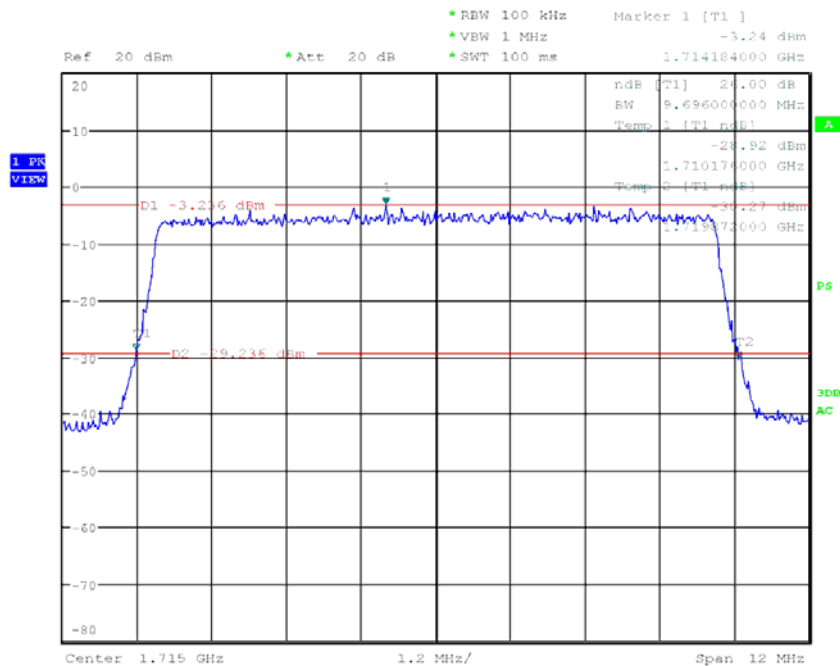
Diagram 34.411_26 dB



Date: 13.JAN.2017 14:25:05

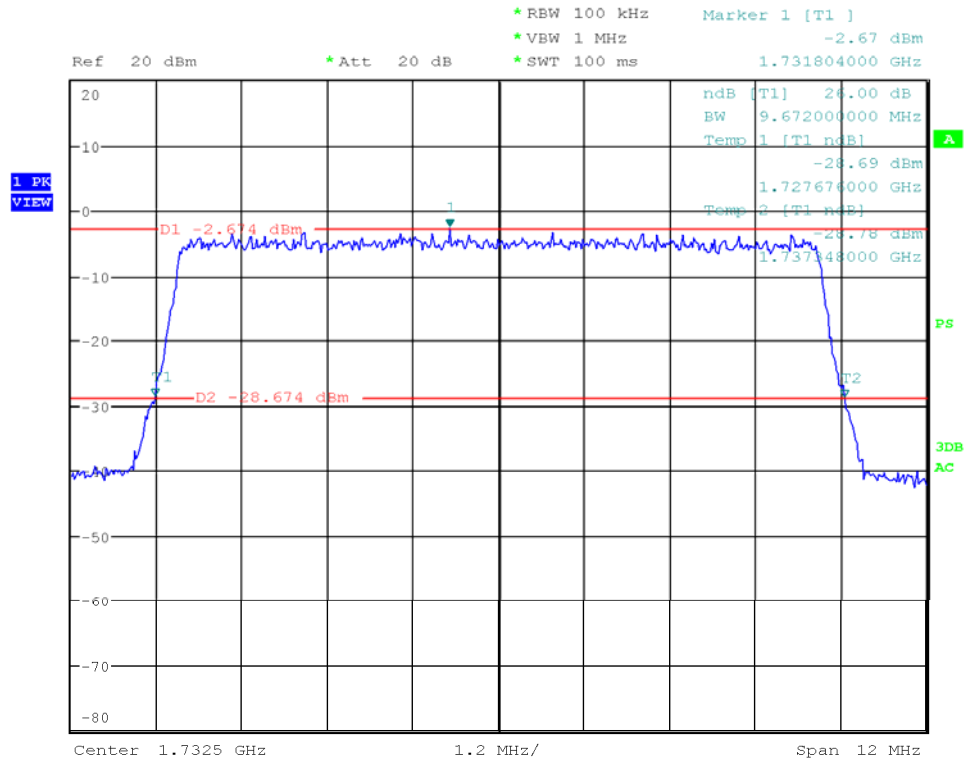
Diagram 34.412_26 dB

16-QAM-Modulation



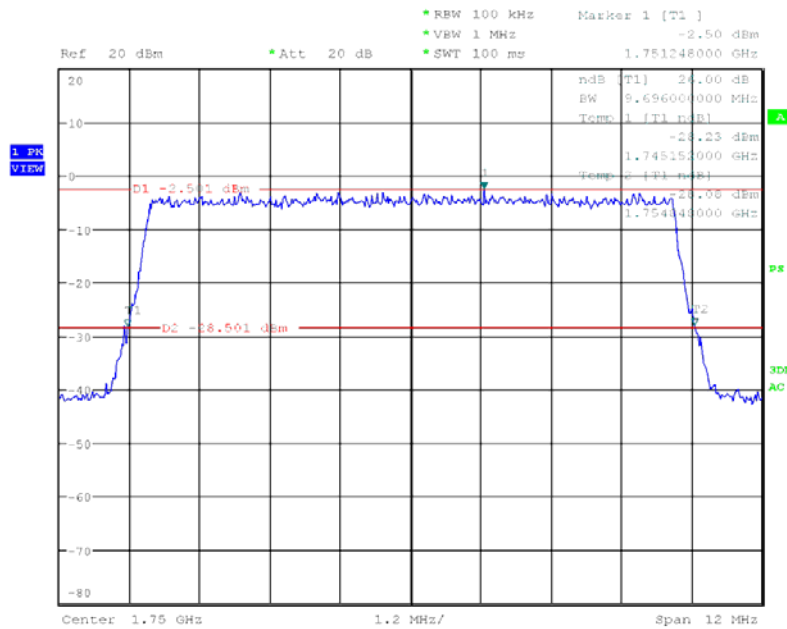
Date: 13.JAN.2017 14:40:57

Diagram 34.428_26 dB



Date: 13.JAN.2017 14:41:40

Diagram 34.429_26 dB

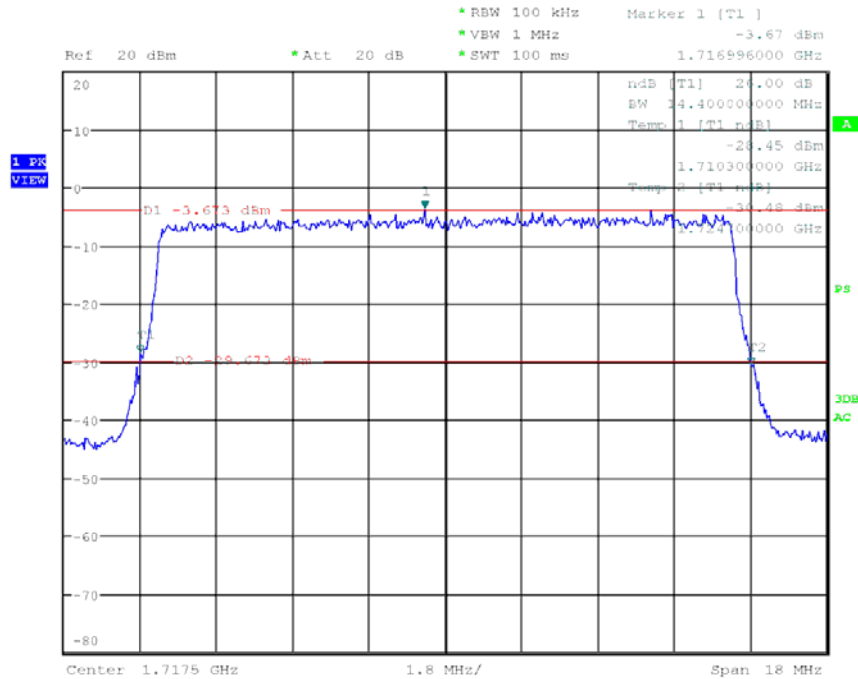


Date: 13.JAN.2017 14:42:28

Diagram 34.430_26 dB

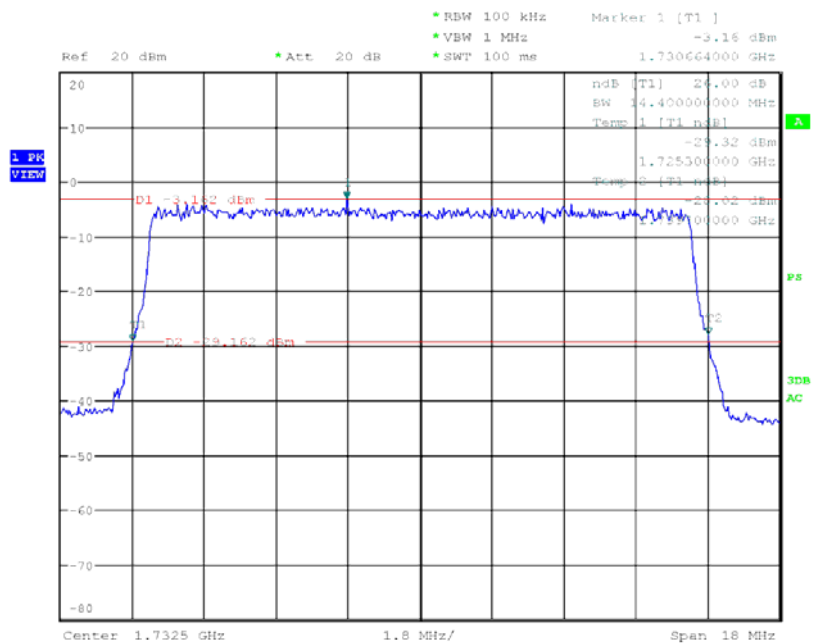
1.17.2.5. BW = 15MHz

QPSK-Modulation



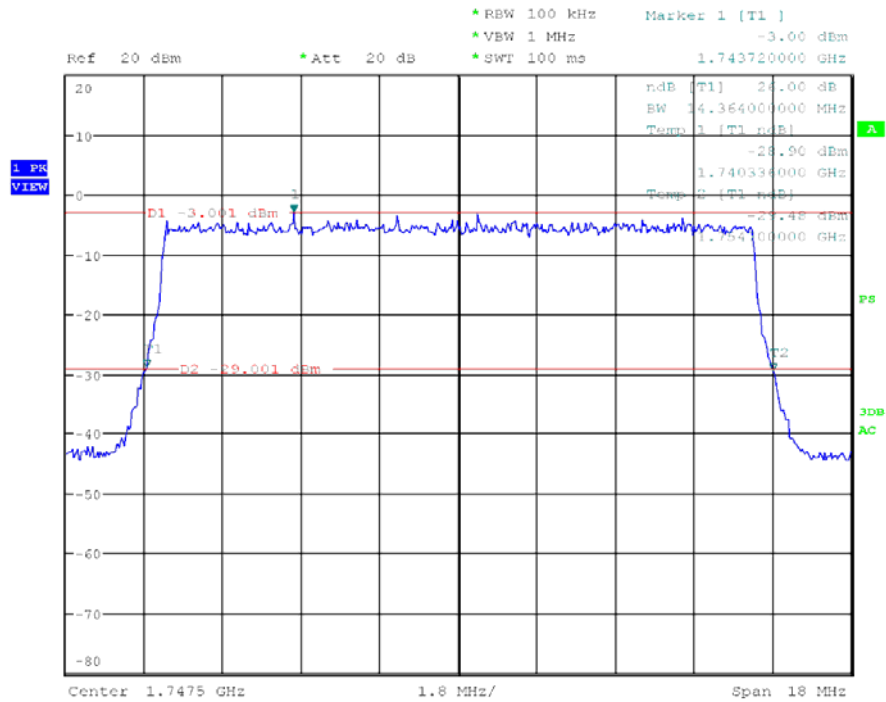
Date: 13.JAN.2017 14:27:15

Diagram 34.413_26 dB



Date: 13.JAN.2017 14:27:56

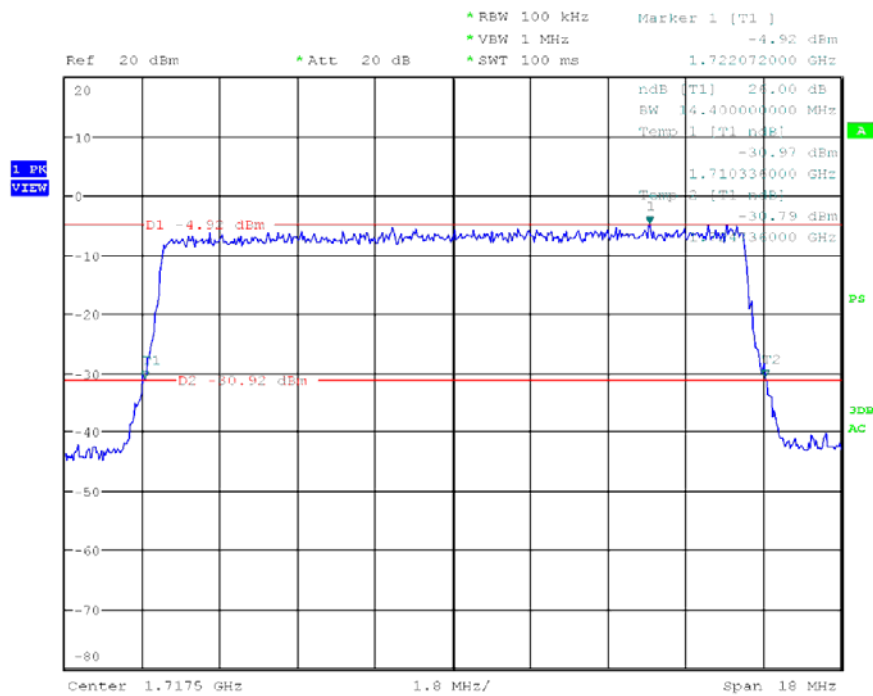
Diagram 34.414_26 dB



Date: 13.JAN.2017 14:28:42

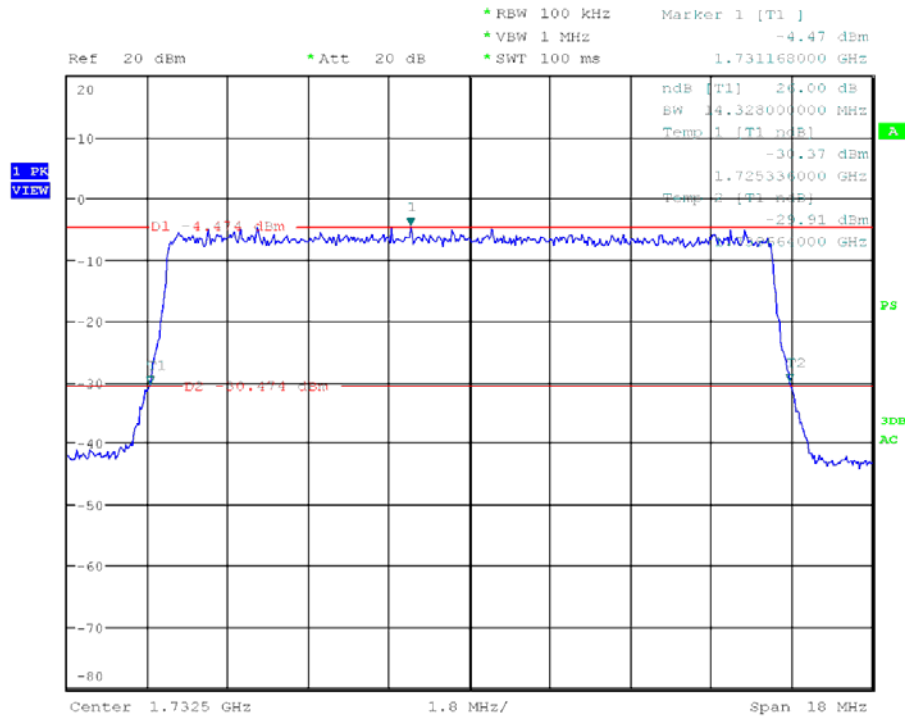
Diagram 34.415_26 dB

16-QAM-Modulation



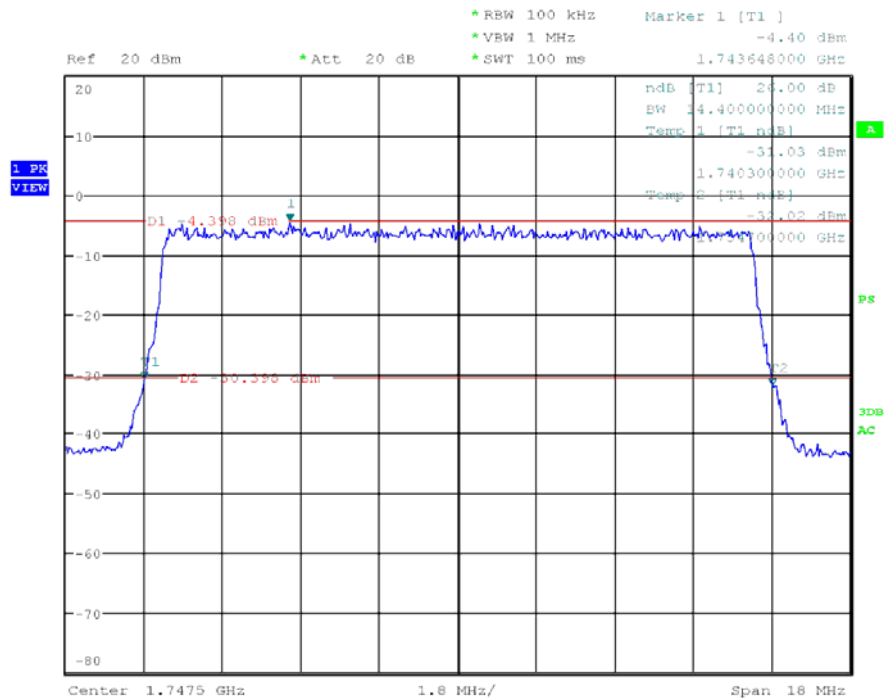
Date: 13.JAN.2017 14:43:50

Diagram 34.431_26 dB



Date: 13.JAN.2017 14:44:38

Diagram 34.432_26 dB

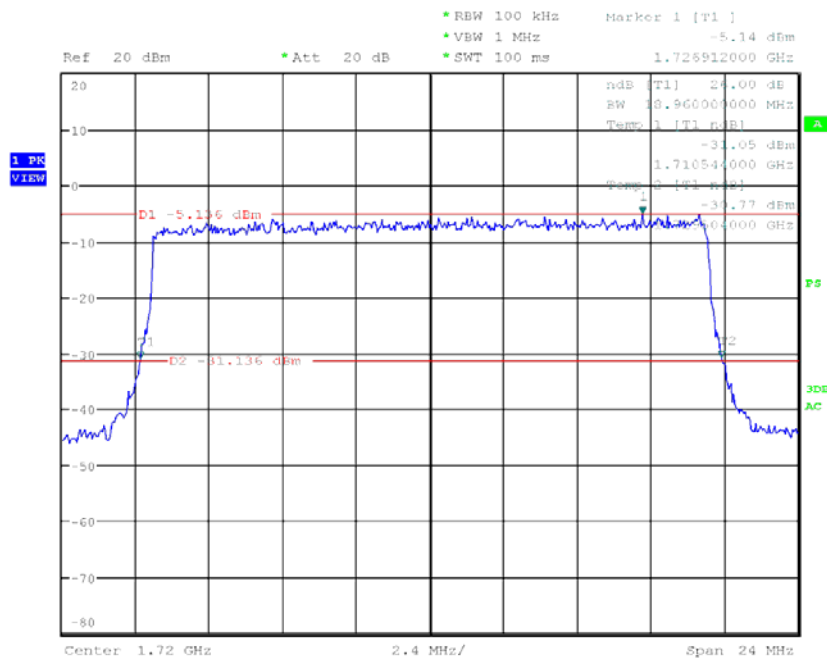


Date: 13.JAN.2017 14:45:16

Diagram 34.433_26 dB

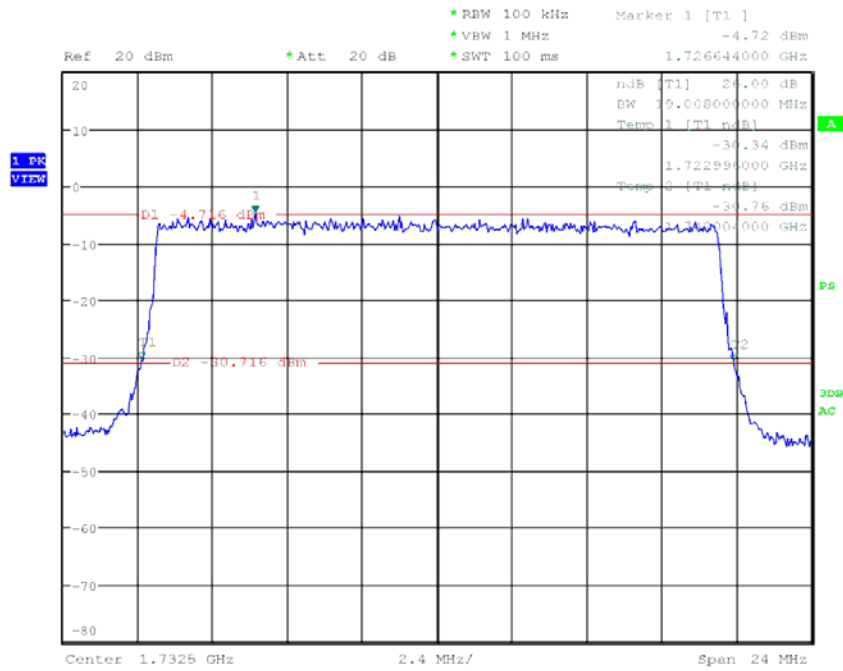
1.17.2.6. BW = 20MHz

QPSK-Modulation



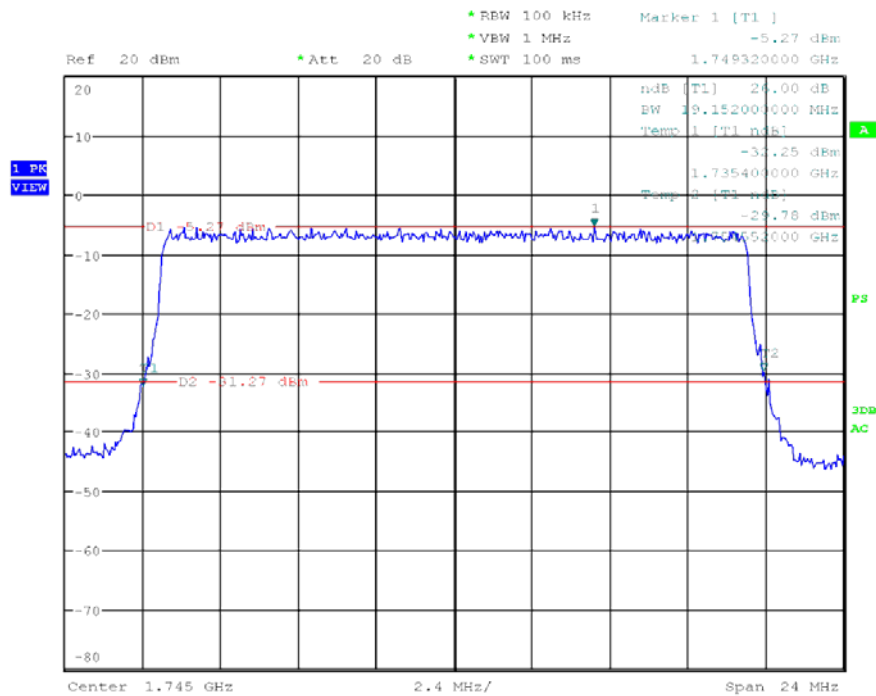
Date: 13.JAN.2017 14:30:17

Diagram 34.416_26 dB



Date: 13.JAN.2017 14:30:54

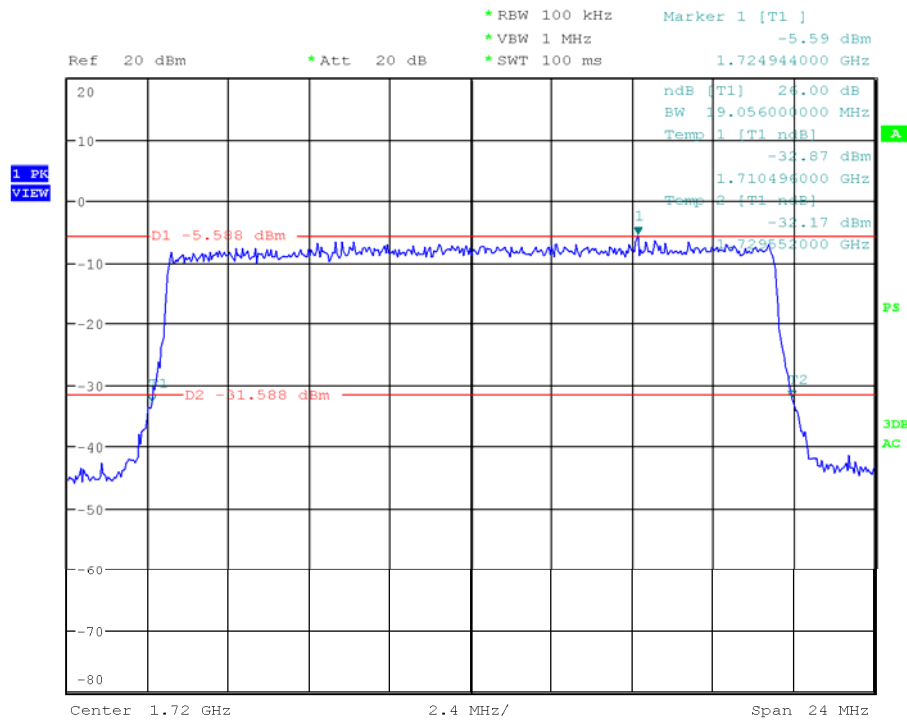
Diagram 34.417_26 dB



Date: 13.JAN.2017 14:31:40

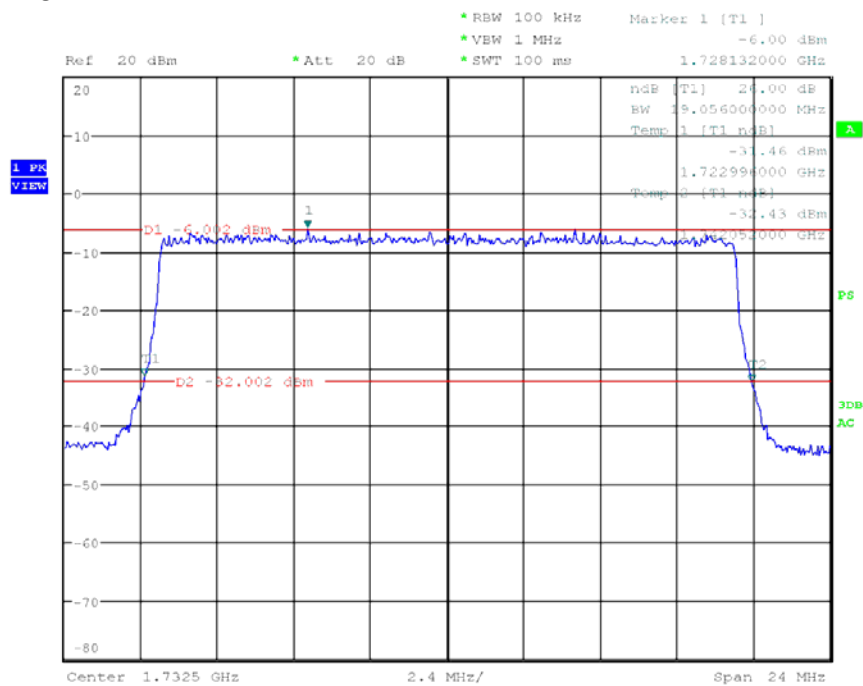
Diagram 34.418_26 dB

16-QAM-Modulation



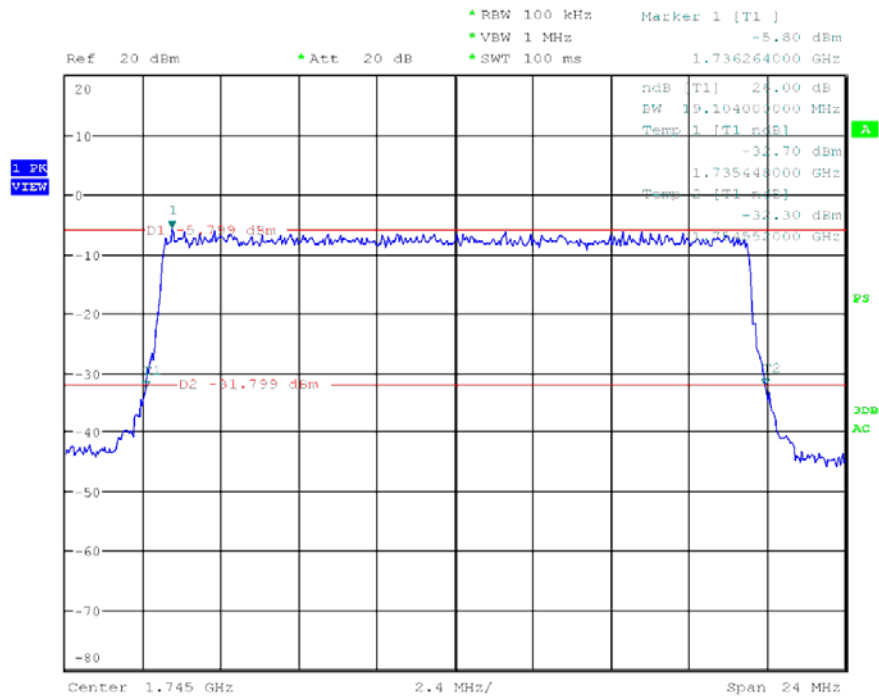
Date: 13.JAN.2017 14:46:55

Diagram 34.434_26 dB



Date: 13.JAN.2017 14:47:34

Diagram 34.435_26 dB



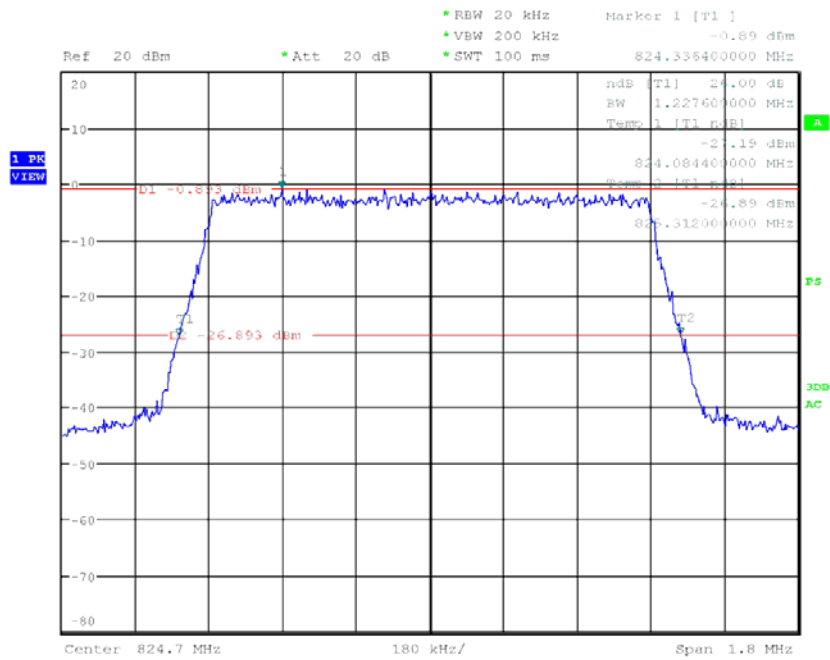
Date: 13.JAN.2017 14:48:11

Diagram 34.436_26 dB

1.17.3. LTE Band 5

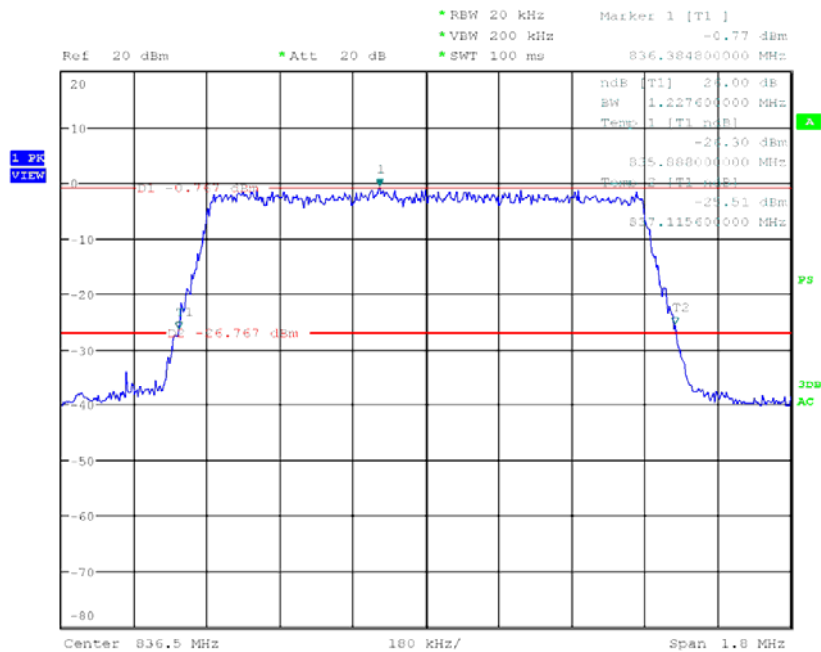
1.17.3.1. BW = 1.4MHz

QPSK-Modulation



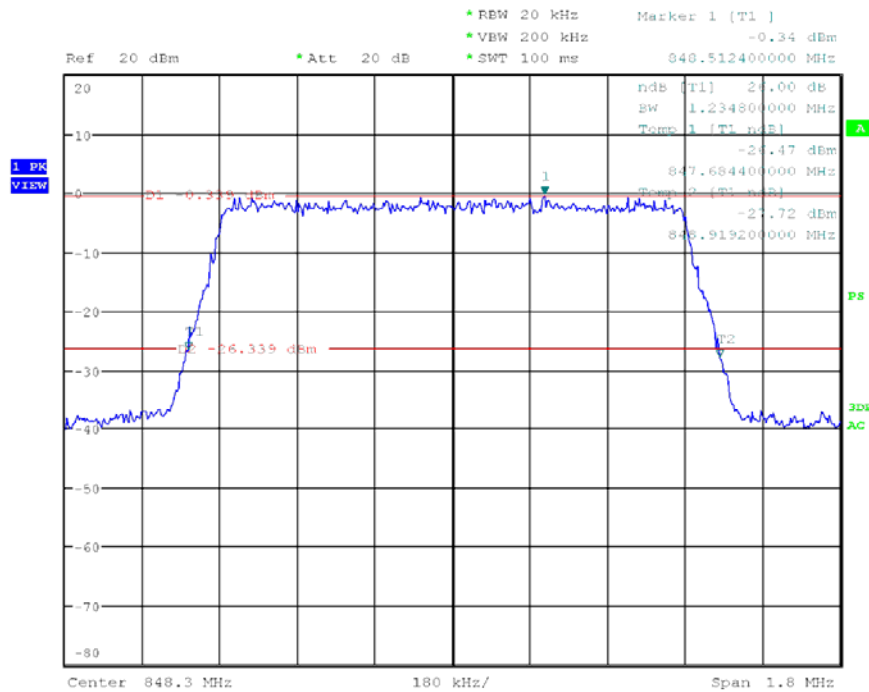
Date: 13.JAN.2017 14:57:21

Diagram 34.501_26 dB



Date: 13.JAN.2017 14:58:20

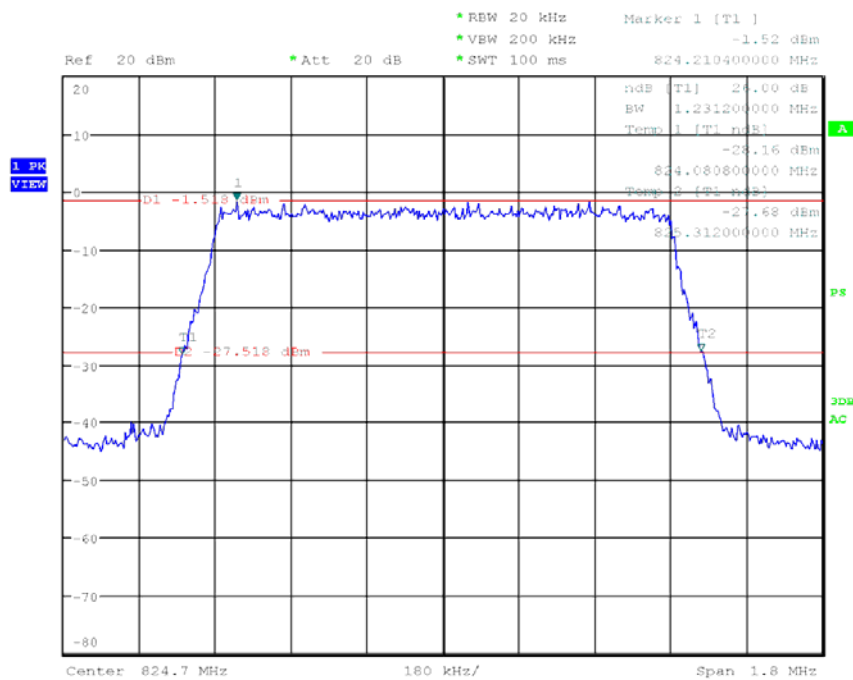
Diagram 34.502_26 dB



Date: 13.JAN.2017 14:58:49

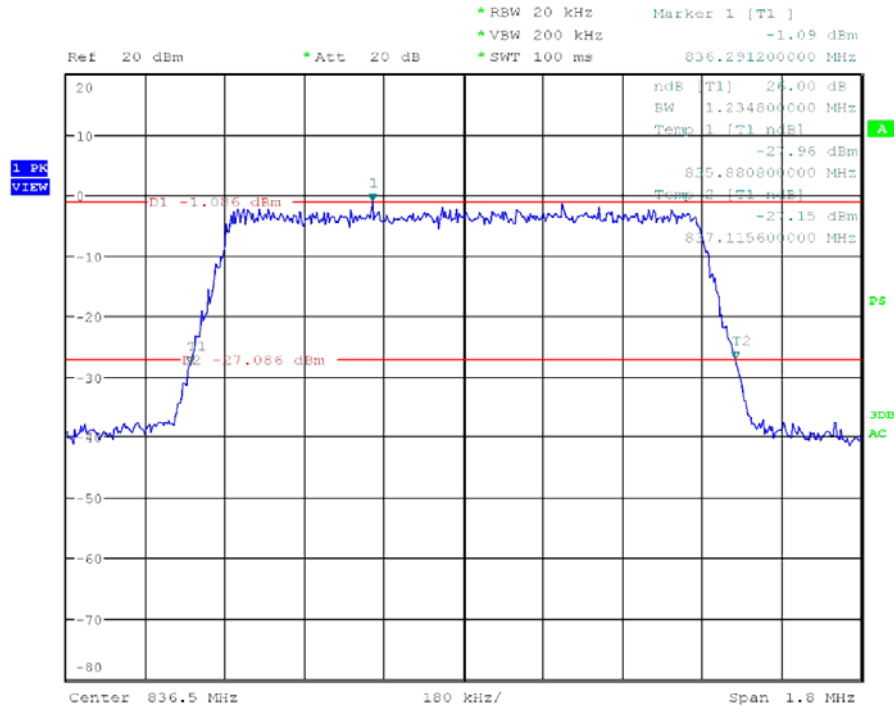
Diagram 34.503_26 dB

16-QAM-Modulation



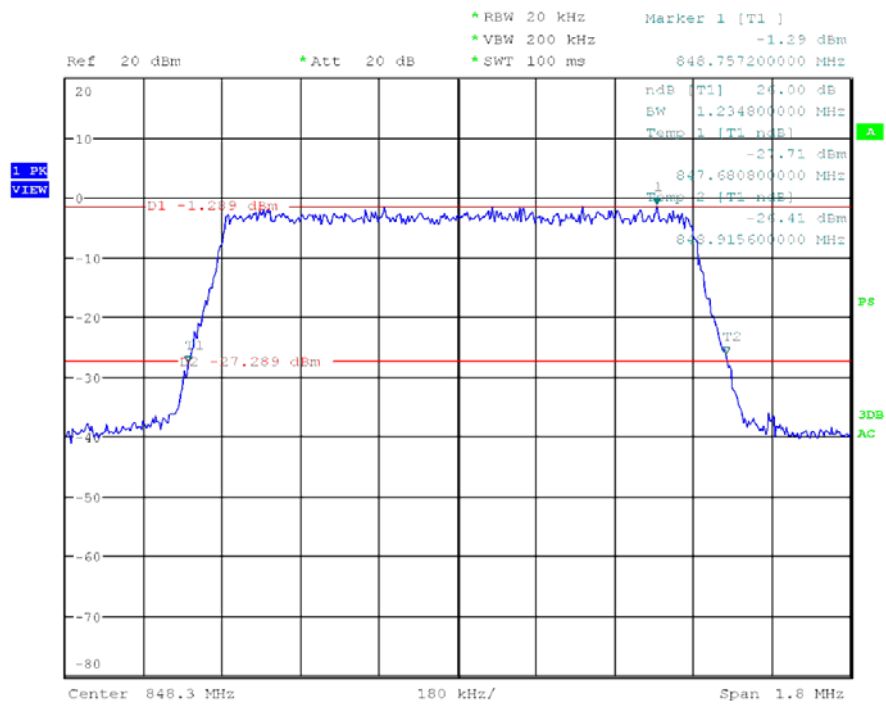
Date: 13.JAN.2017 15:20:45

Diagram 34.513_26 dB



Date: 13.JAN.2017 15:21:27

Diagram 34.514_26 dB

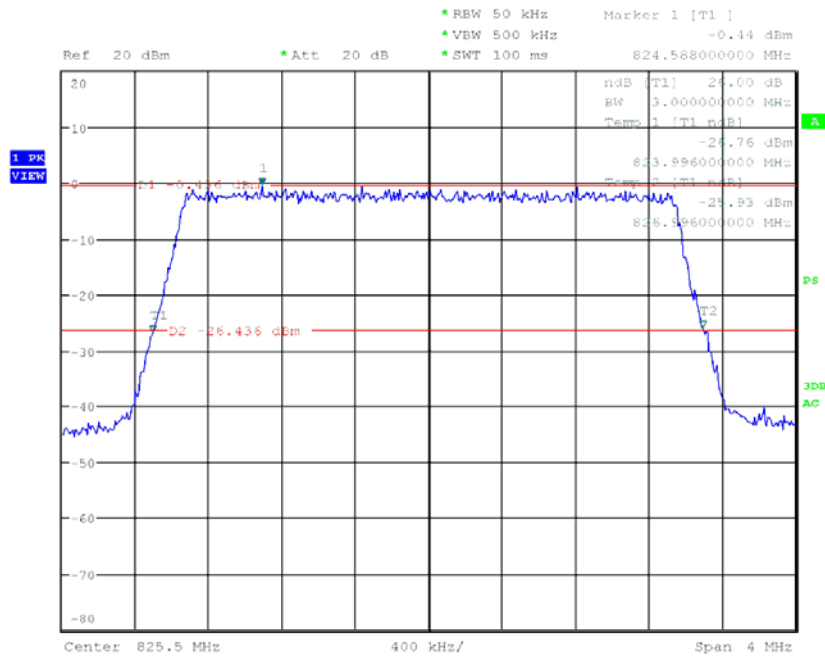


Date: 13.JAN.2017 15:22:09

Diagram 34.515_26 dB

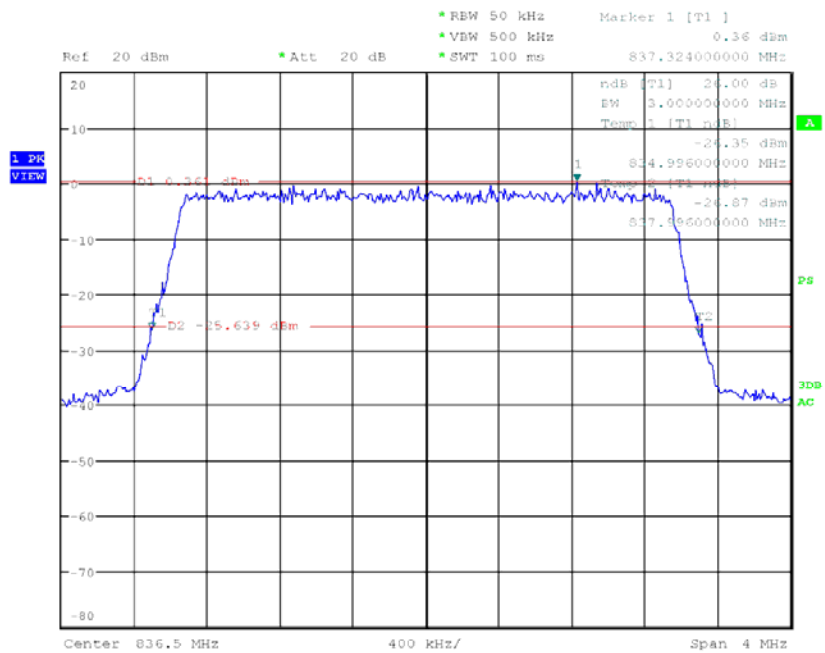
1.17.3.2. BW = 3MHz

QPSK-Modulation



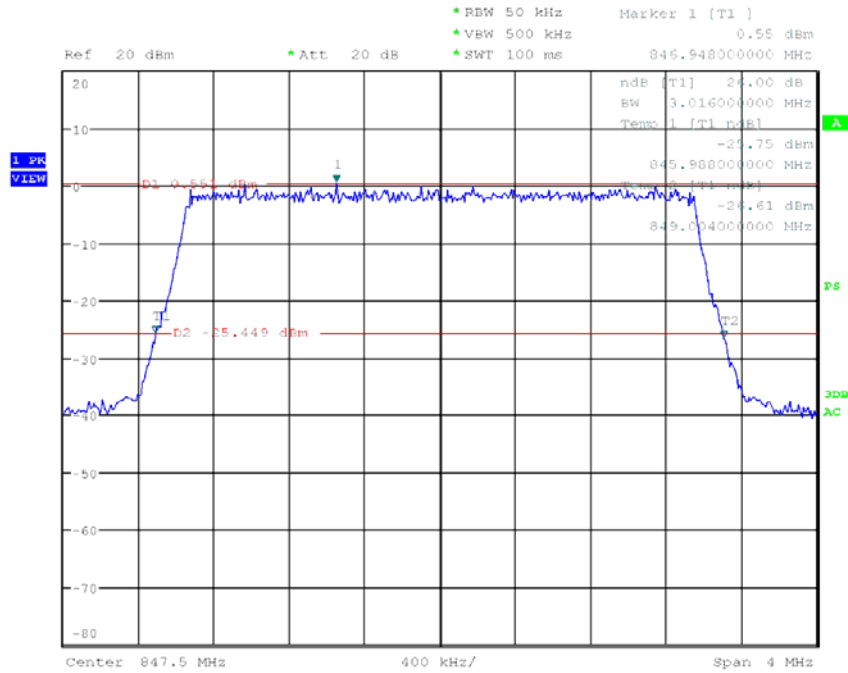
Date: 13.JAN.2017 15:00:13

Diagram 34.504_26 dB



Date: 13.JAN.2017 15:00:49

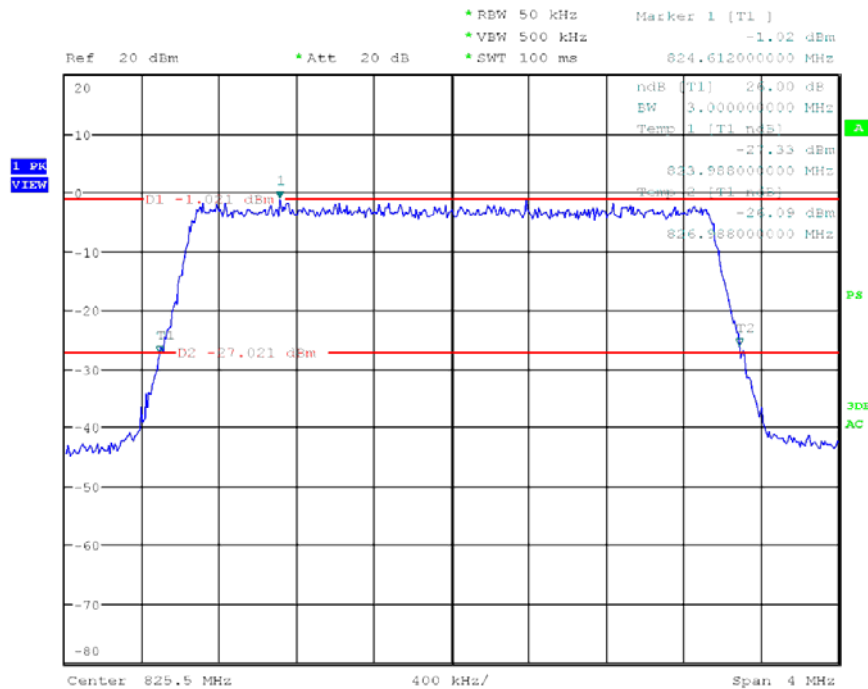
Diagram 34.505_26 dB



Date: 13.JAN.2017 15:01:45

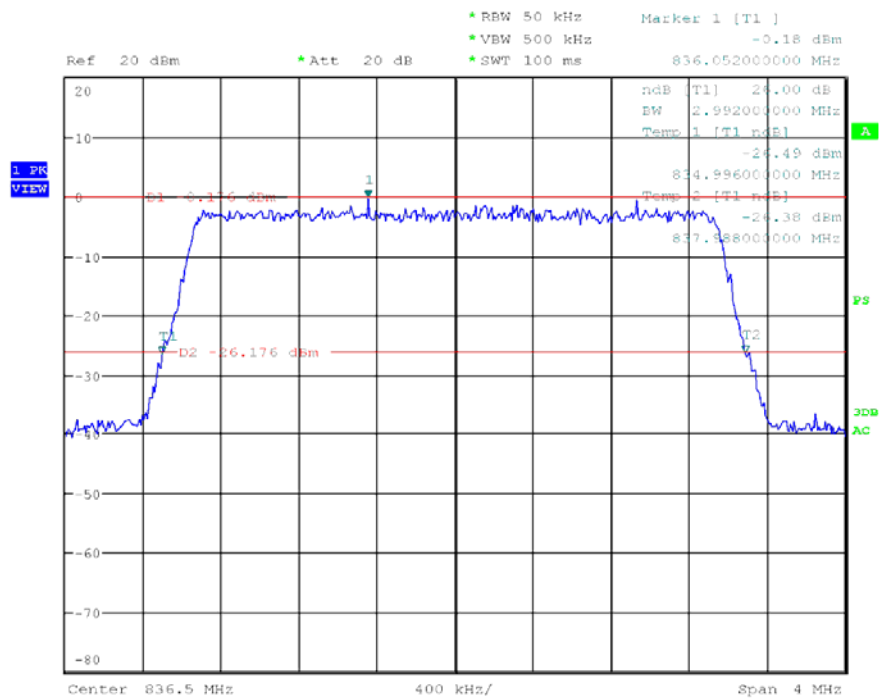
Diagram 34.506_26 dB

16-QAM-Modulation



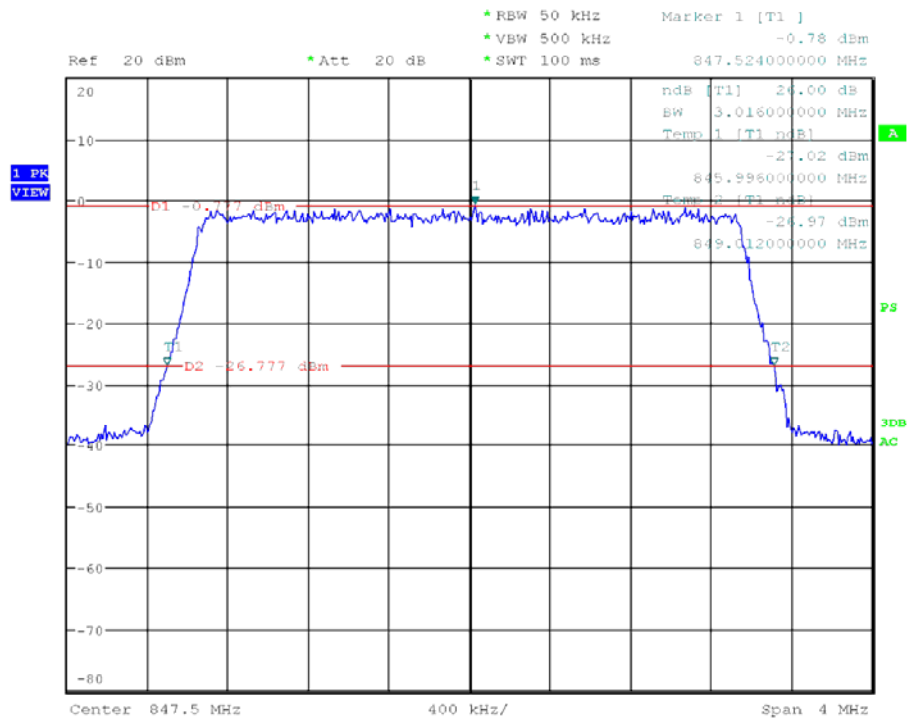
Date: 13.JAN.2017 15:25:17

Diagram 34.516_26 dB



Date: 13.JAN.2017 15:25:56

Diagram 34.517_26 dB

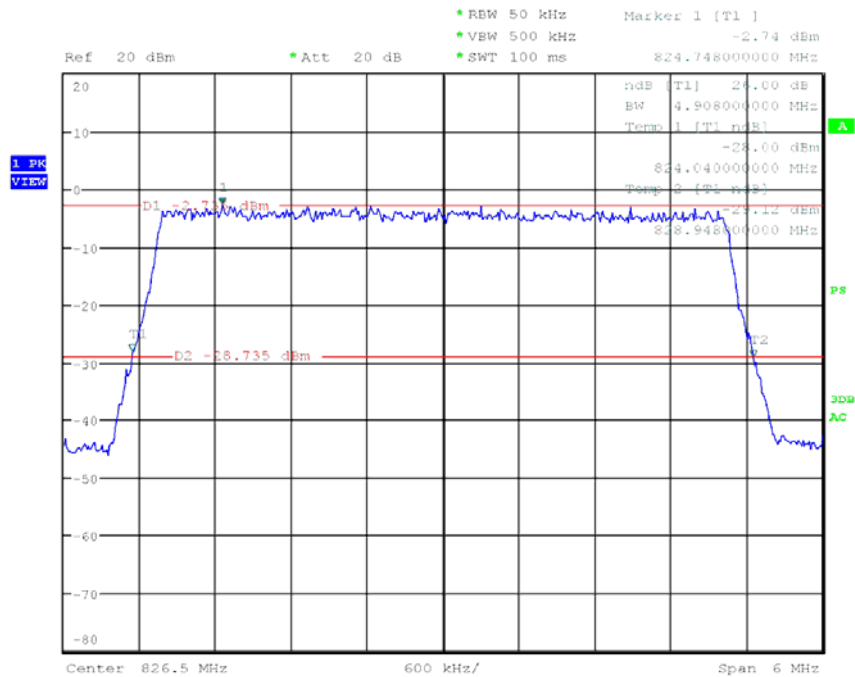


Date: 13.JAN.2017 15:29:07

Diagram 34.518_26 dB

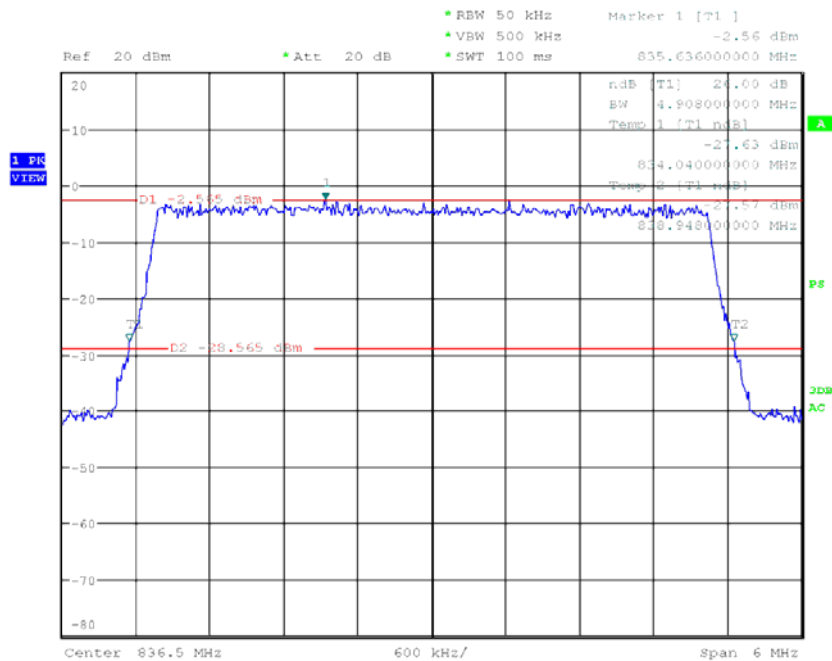
1.17.3.3. BW = 5MHz

QPSK-Modulation



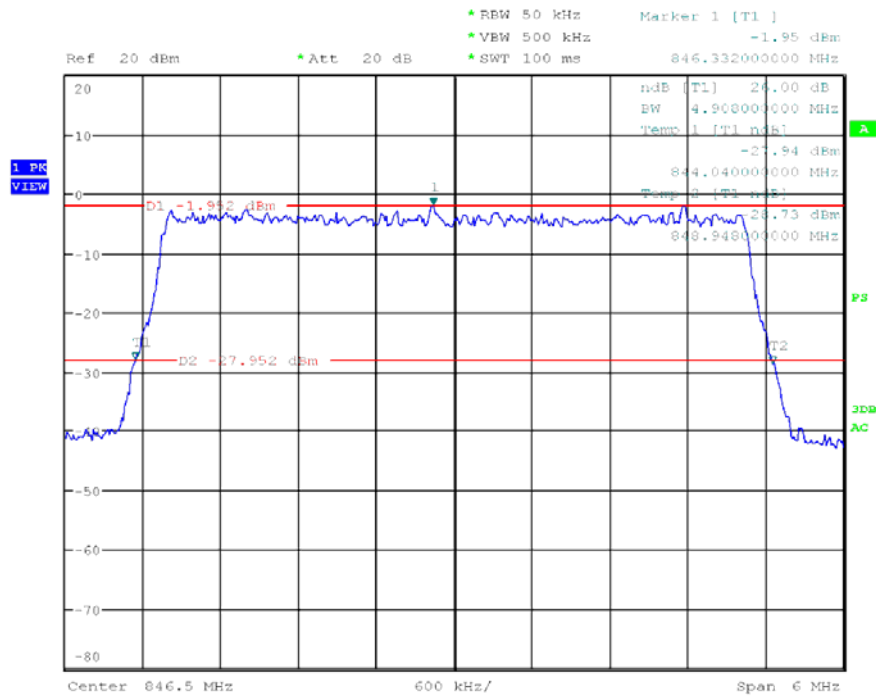
Date: 13.JAN.2017 15:03:09

Diagram 34.507_26 dB



Date: 13.JAN.2017 15:05:12

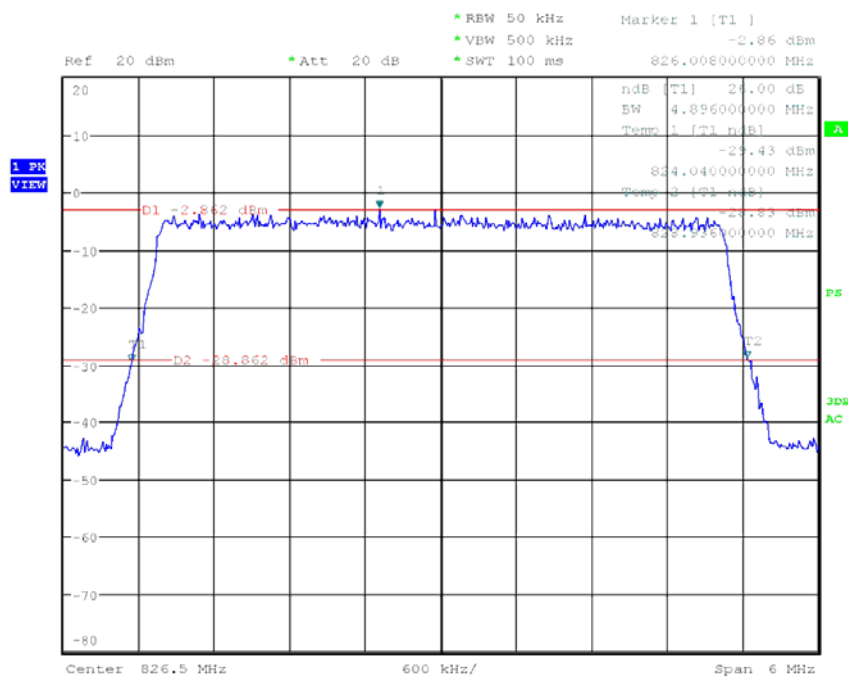
Diagram 34.508_26 dB



Date: 13.JAN.2017 15:06:15

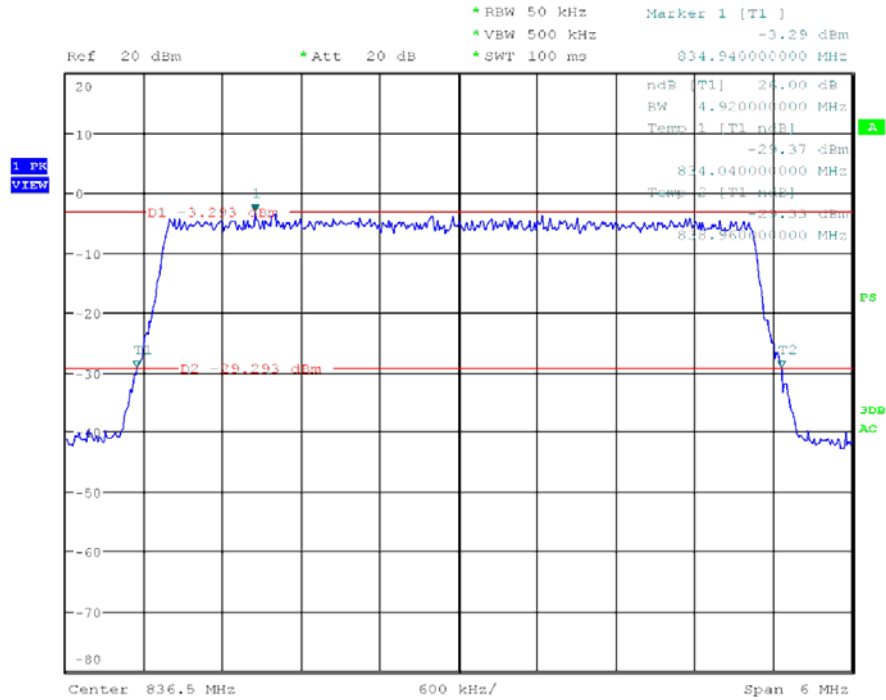
Diagram 34.509_26 dB

16-QAM-Modulation



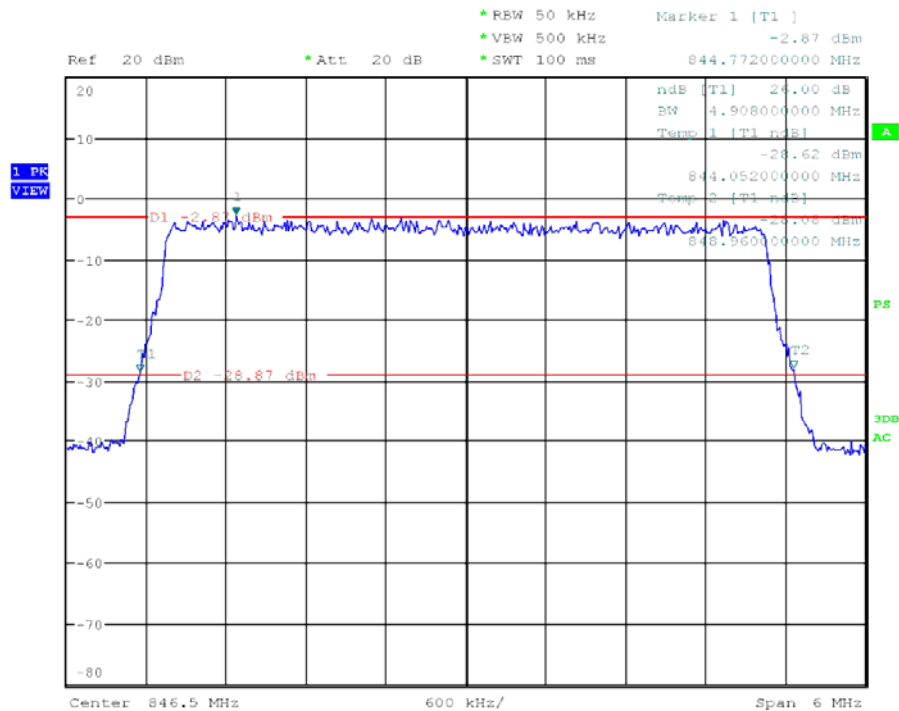
Date: 13.JAN.2017 15:27:59

Diagram 34.519_26 dB



Date: 13.JAN.2017 15:31:48

Diagram 34.520_26 dB

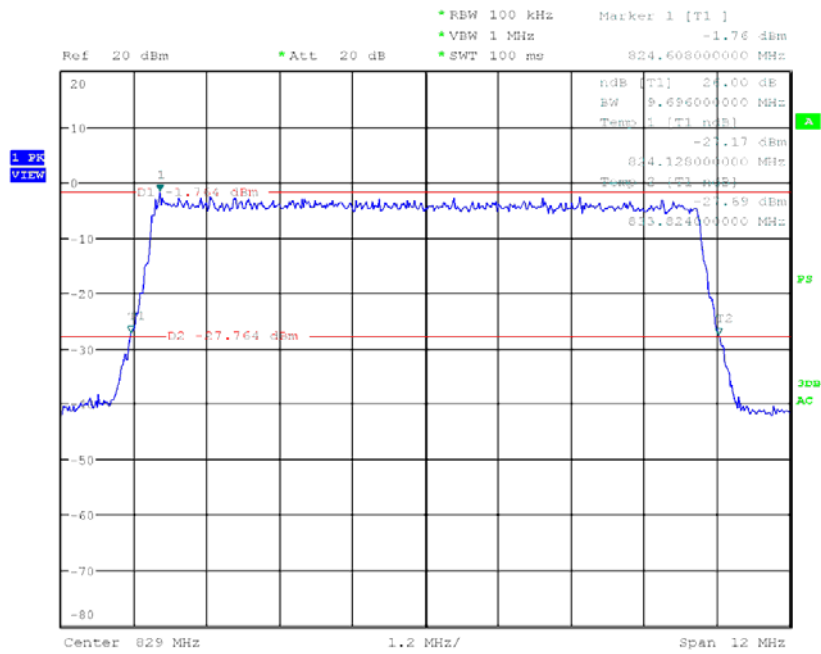


Date: 13.JAN.2017 15:33:01

Diagram 34.521_26 dB

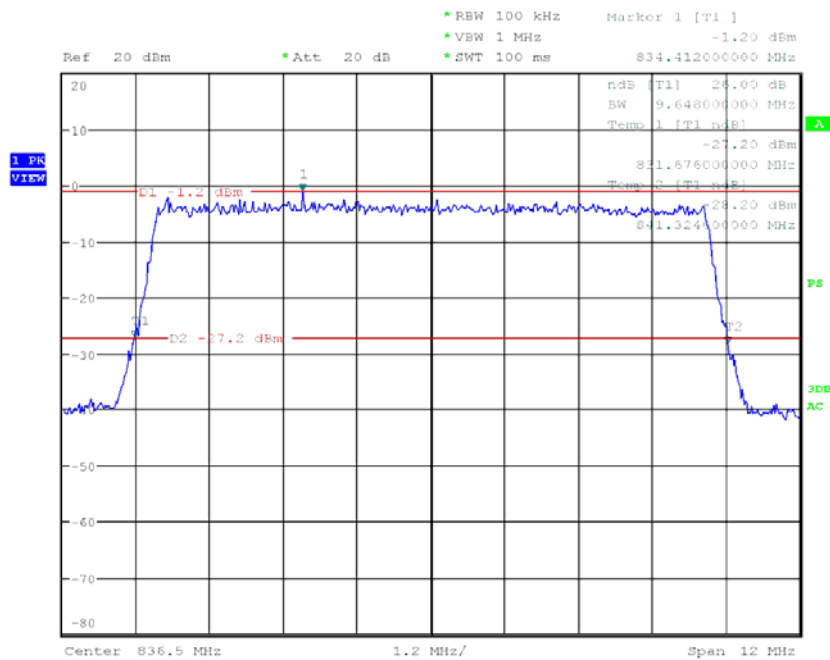
1.17.3.4. BW = 10MHz

QPSK-Modulation



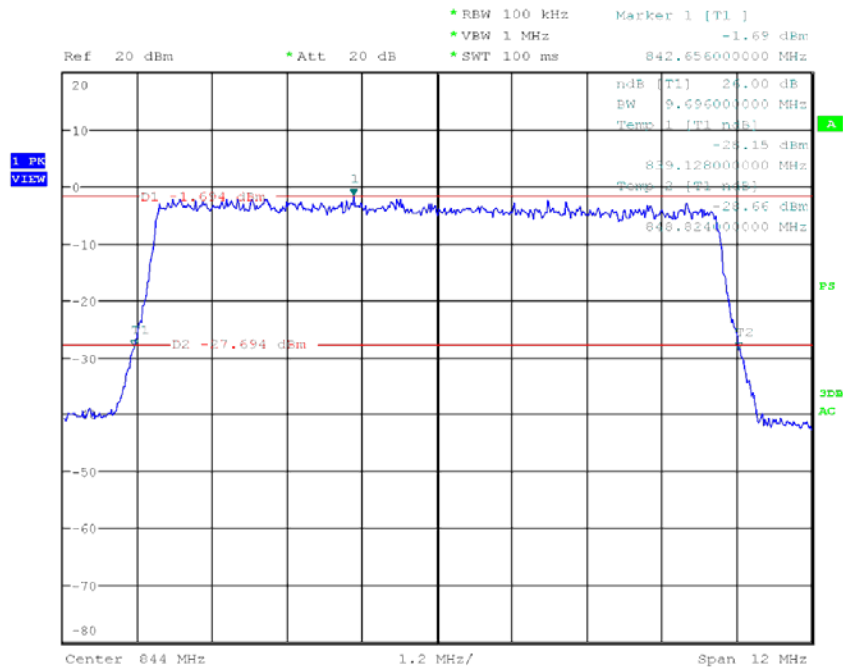
Date: 13.JAN.2017 15:07:21

Diagram 34.510_26 dB



Date: 13.JAN.2017 15:12:55

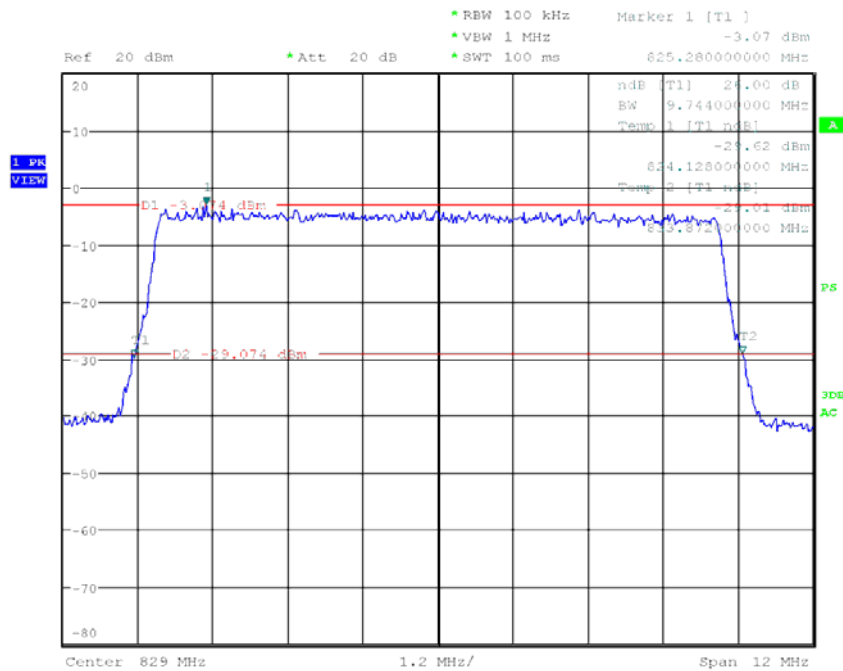
Diagram 34.511_26 dB



Date: 13.JAN.2017 15:13:35

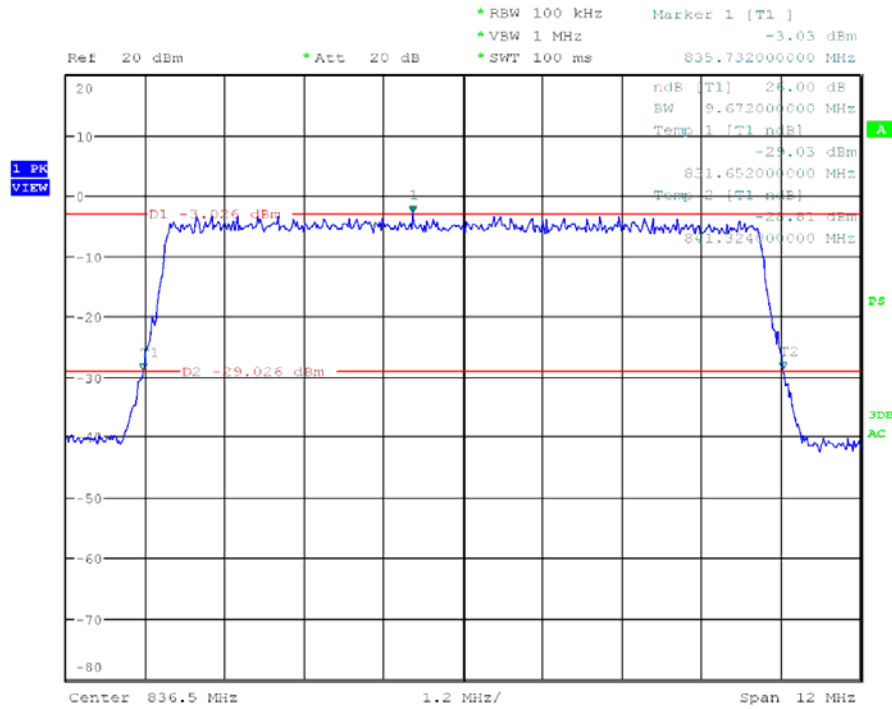
Diagram 34.512_26 dB

16-QAM-Modulation



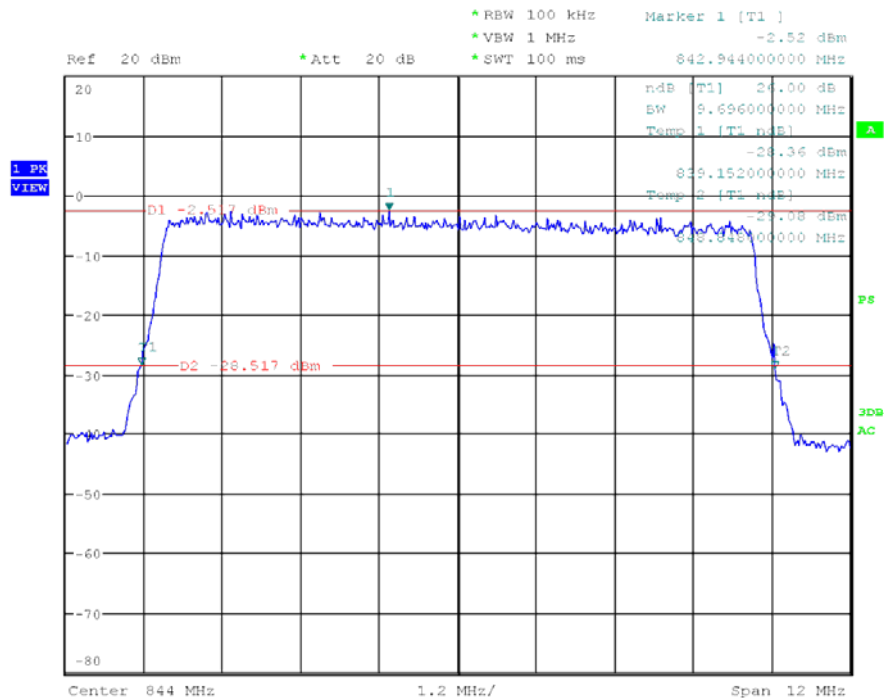
Date: 13.JAN.2017 15:39:08

Diagram 34.522_26 dB



Date: 13.JAN.2017 15:41:33

Diagram 34.523_26 dB



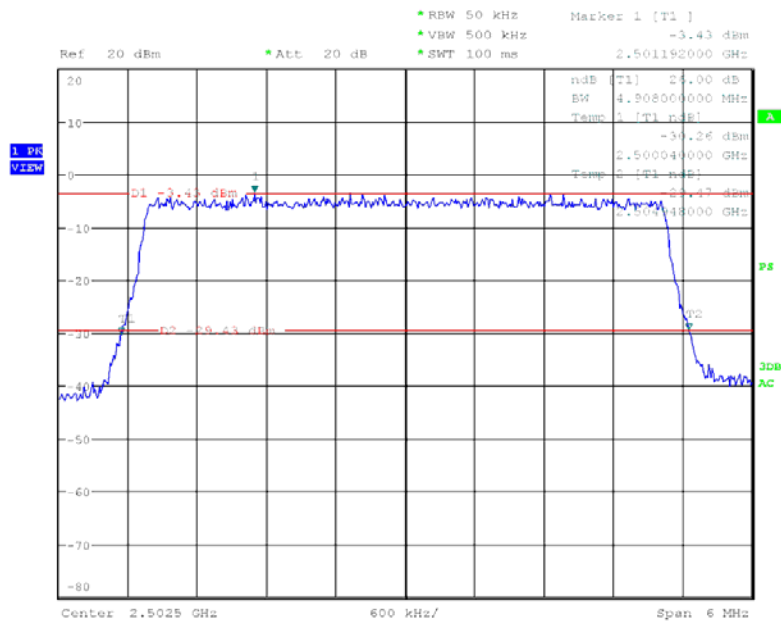
Date: 13.JAN.2017 15:42:21

Diagram 34.524_26 dB

1.17.4. LTE Band 7

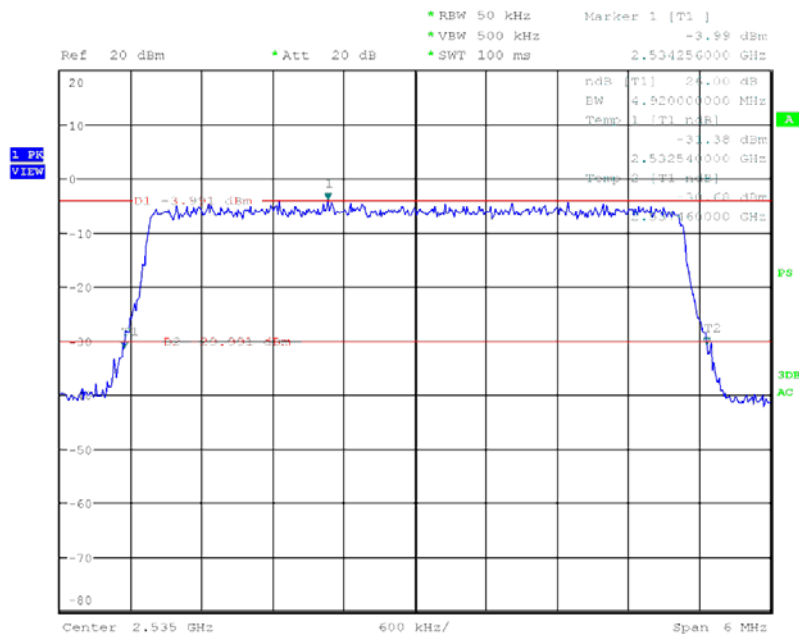
1.17.4.1. BW = 5MHz

QPSK-Modulation



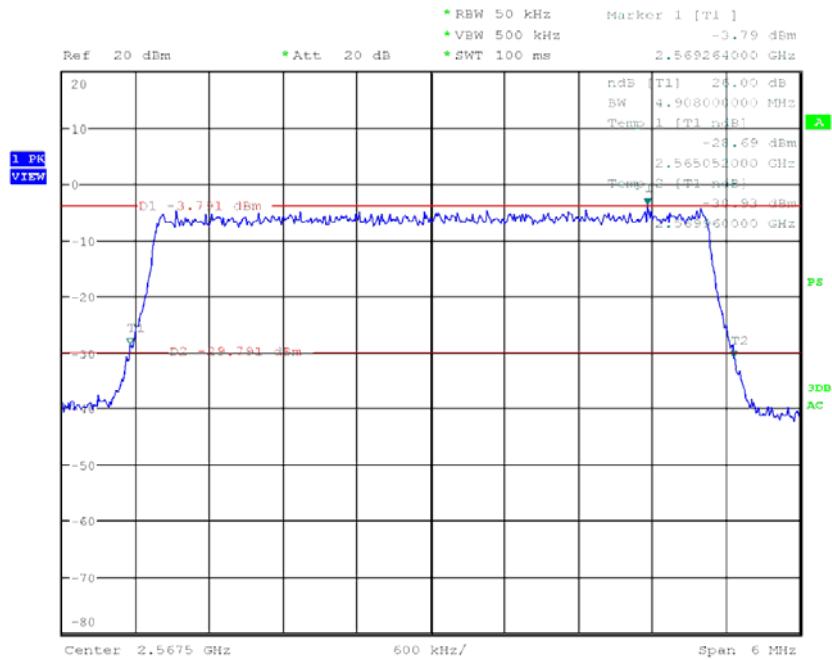
Date: 13.JAN.2017 15:53:26

Diagram 34.701_26 dB



Date: 13.JAN.2017 15:54:25

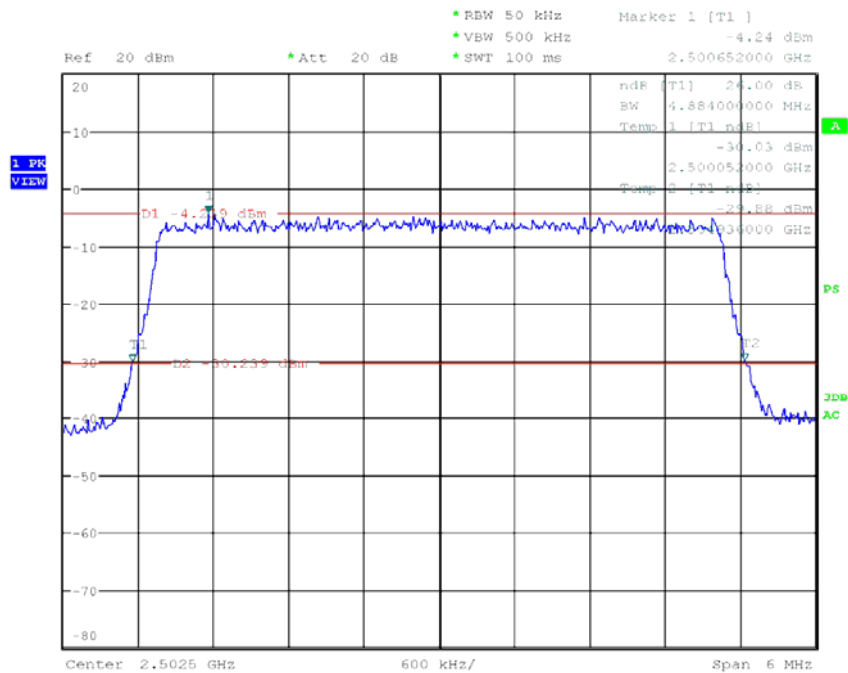
Diagram 34.702_26 dB



Date: 13.JAN.2017 15:55:03

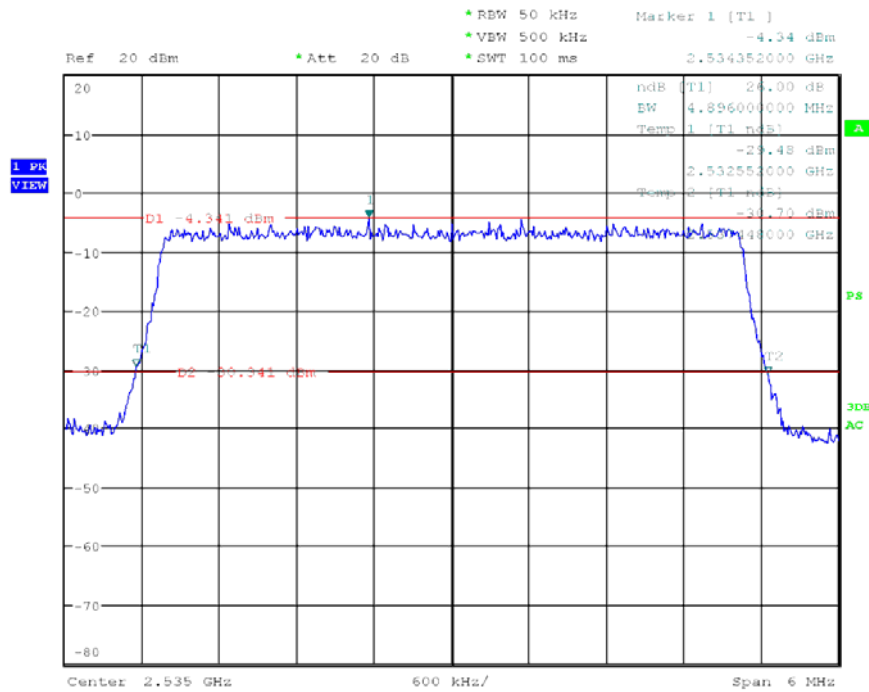
Diagram 34.703_26 dB

16-QAM-Modulation



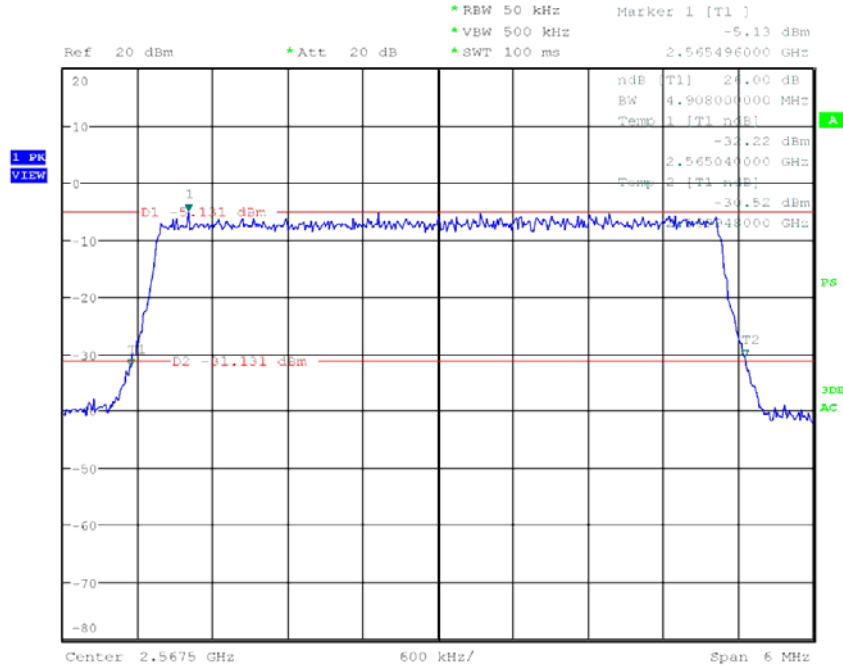
Date: 13.JAN.2017 16:14:01

Diagram 34.713_26 dB



Date: 13.JAN.2017 16:14:46

Diagram 34.714_26 dB

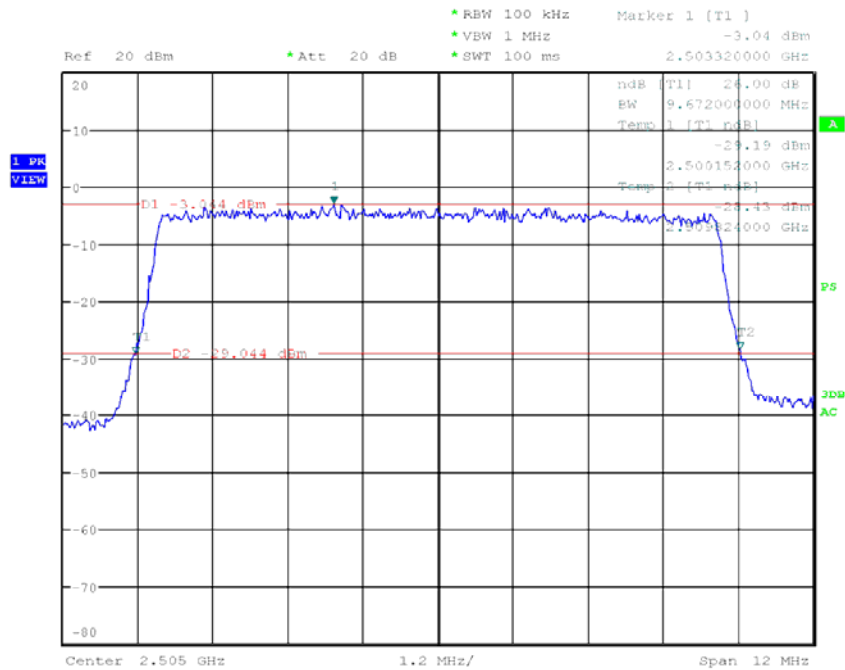


Date: 13.JAN.2017 16:15:41

Diagram 34.715_26 dB

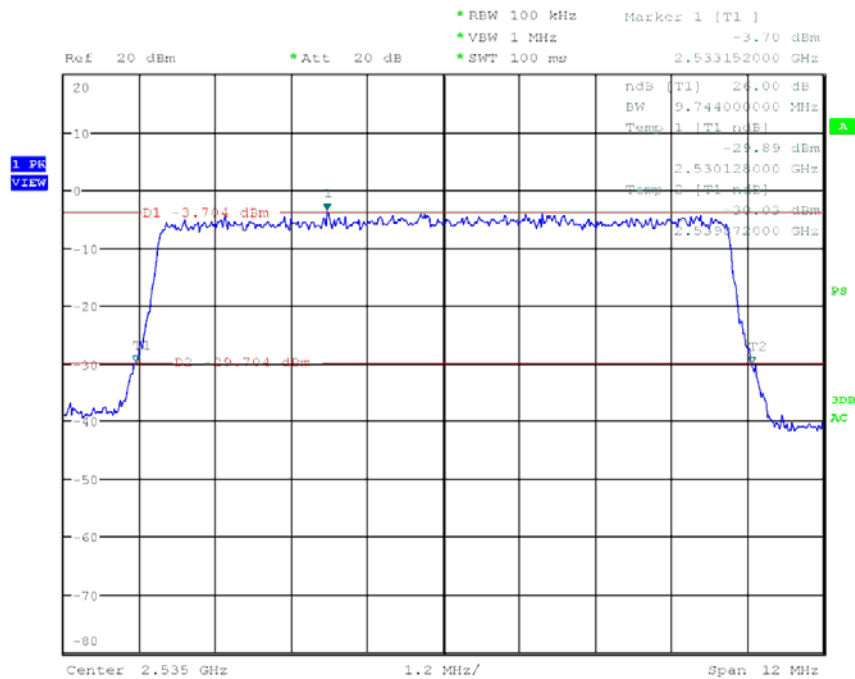
1.17.4.2. BW = 10MHz

QPSK-Modulation



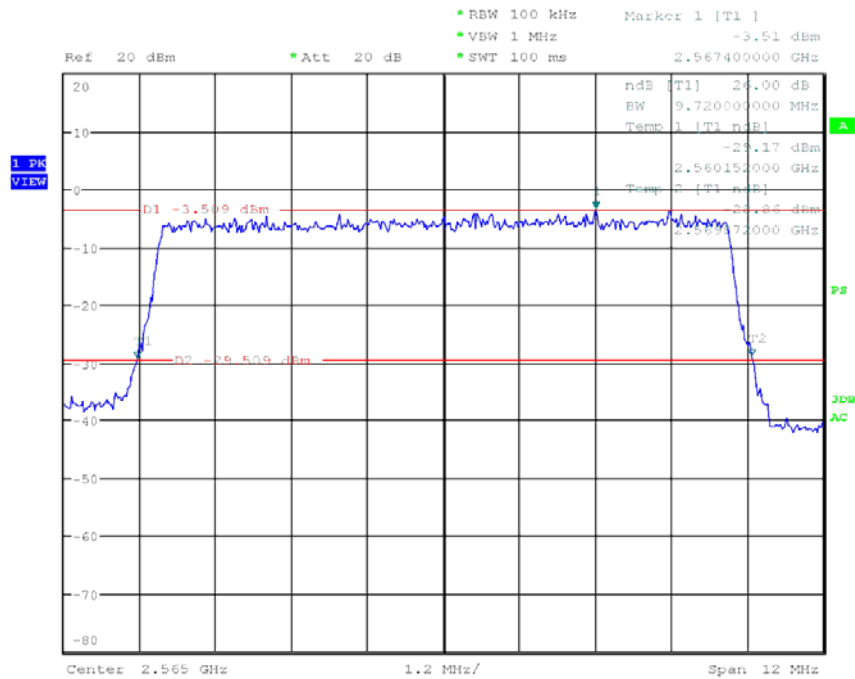
Date: 13.JAN.2017 15:56:25

Diagram 34.704_26 dB



Date: 13.JAN.2017 15:57:03

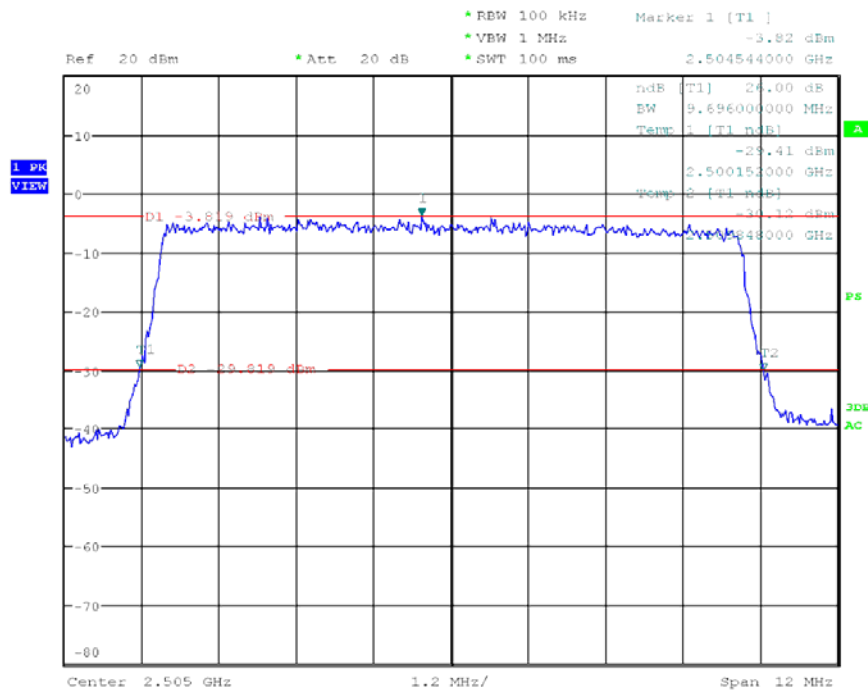
Diagram 34.705_26 dB



Date: 13.JAN.2017 15:57:40

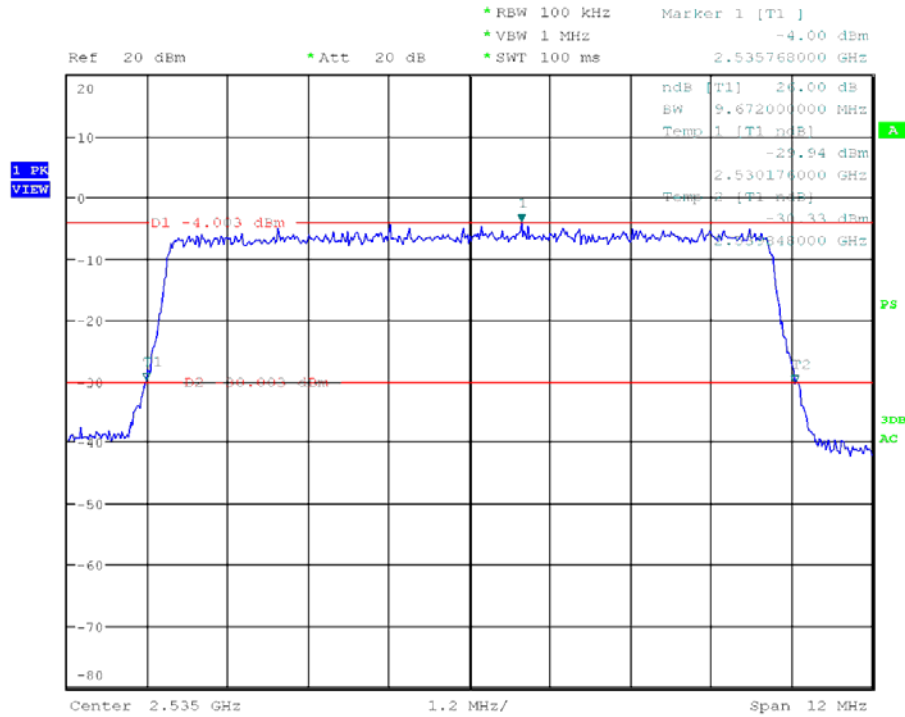
Diagram 34.706_26 dB

16-QAM-Modulation



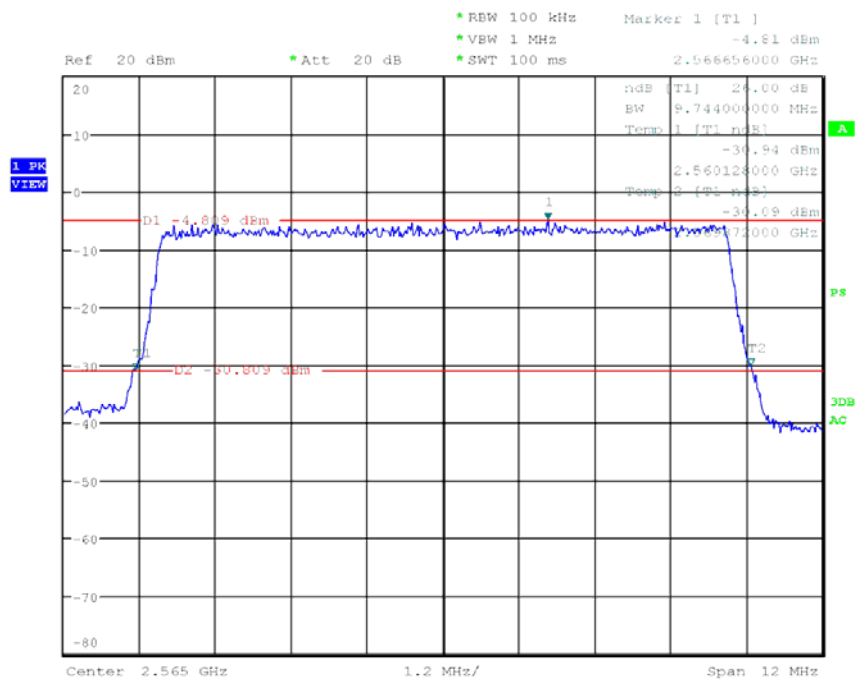
Date: 13.JAN.2017 16:16:33

Diagram 34.716_26 dB



Date: 13.JAN.2017 16:17:27

Diagram 34.717_26 dB

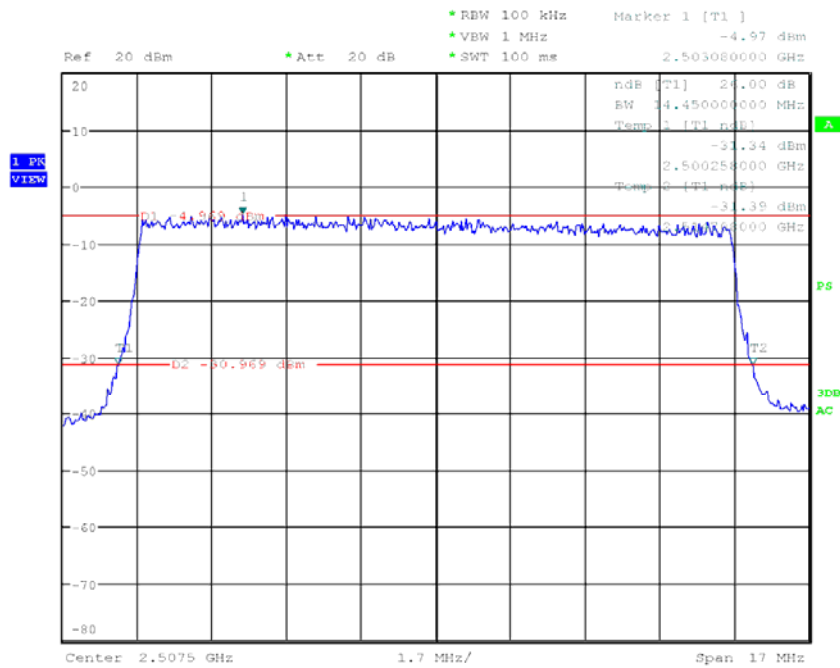


Date: 13.JAN.2017 16:18:04

Diagram 34.718_26 dB

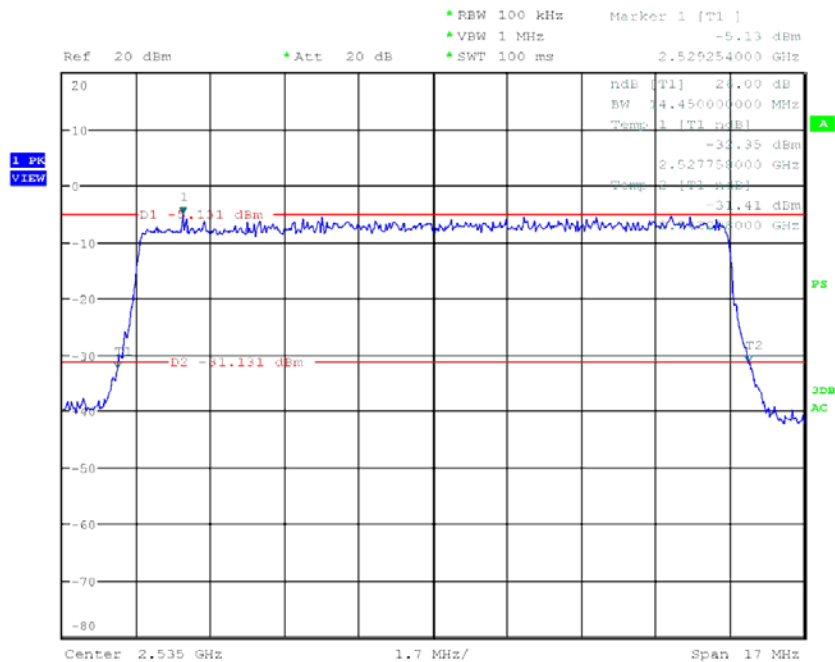
1.17.4.3. BW = 15MHz

QPSK-Modulation



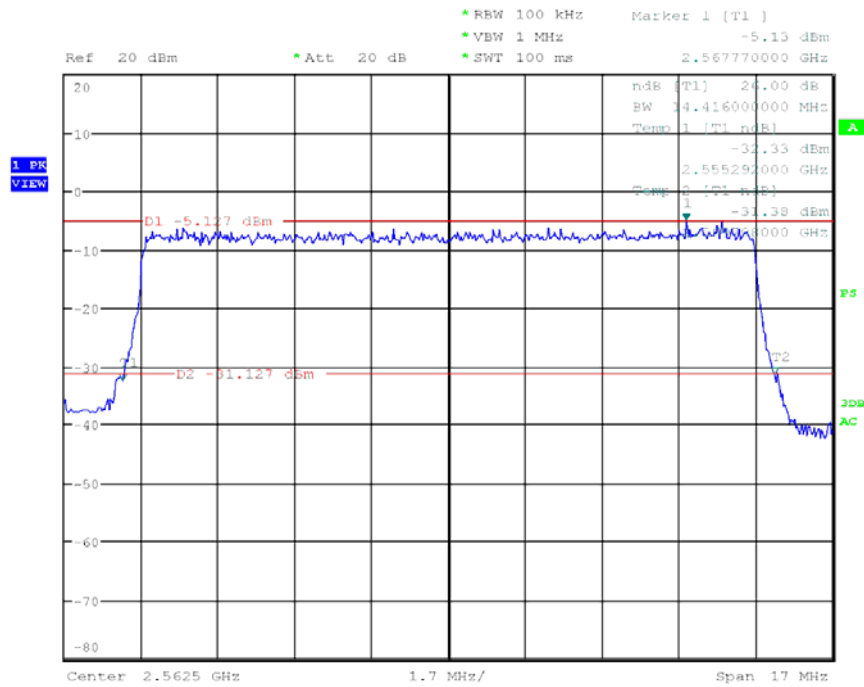
Date: 13.JAN.2017 16:02:04

Diagram 34.707_26 dB



Date: 13.JAN.2017 16:03:52

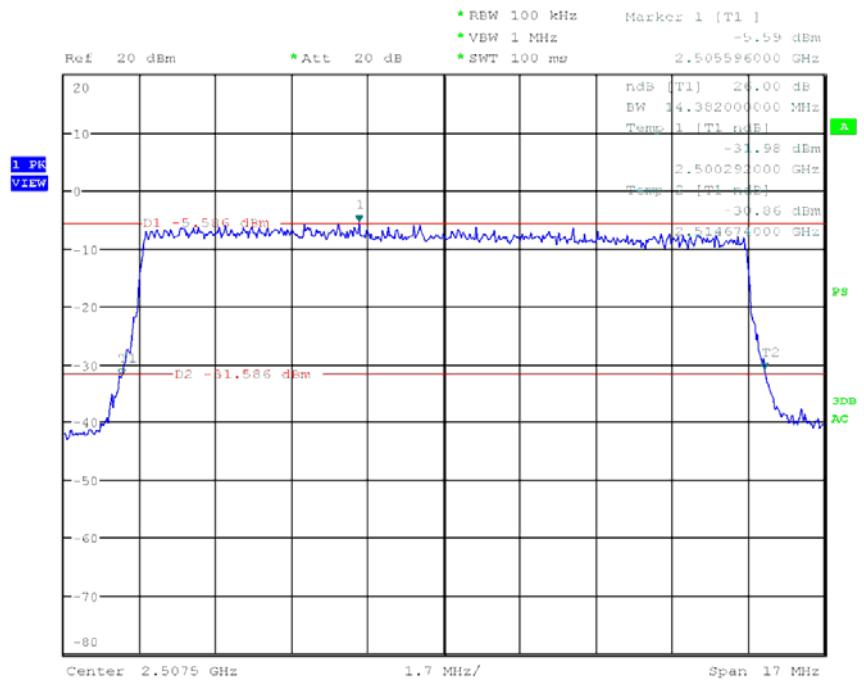
Diagram 34.708_26 dB



Date: 13.JAN.2017 16:04:25

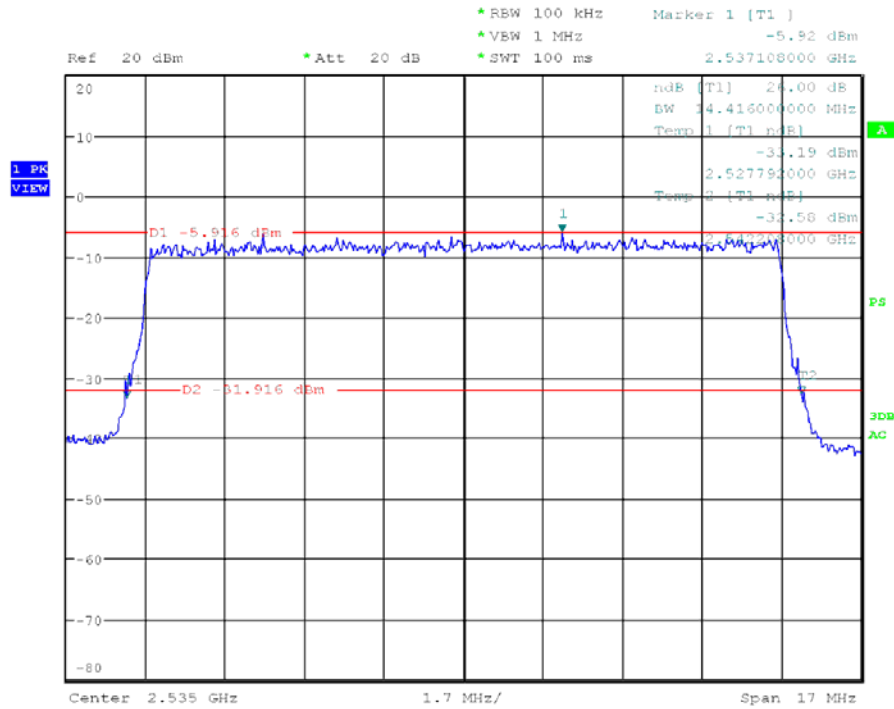
Diagram 34.709_26 dB

16-QAM-Modulation



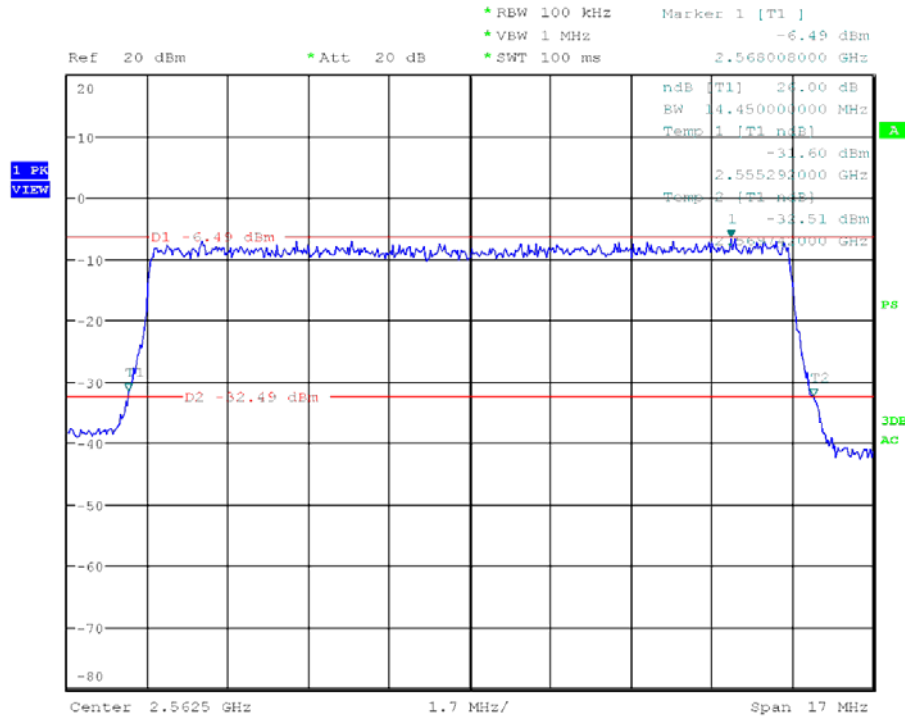
Date: 13.JAN.2017 16:19:10

Diagram 34.719_26 dB



Date: 13.JAN.2017 16:19:52

Diagram 34.720_26 dB

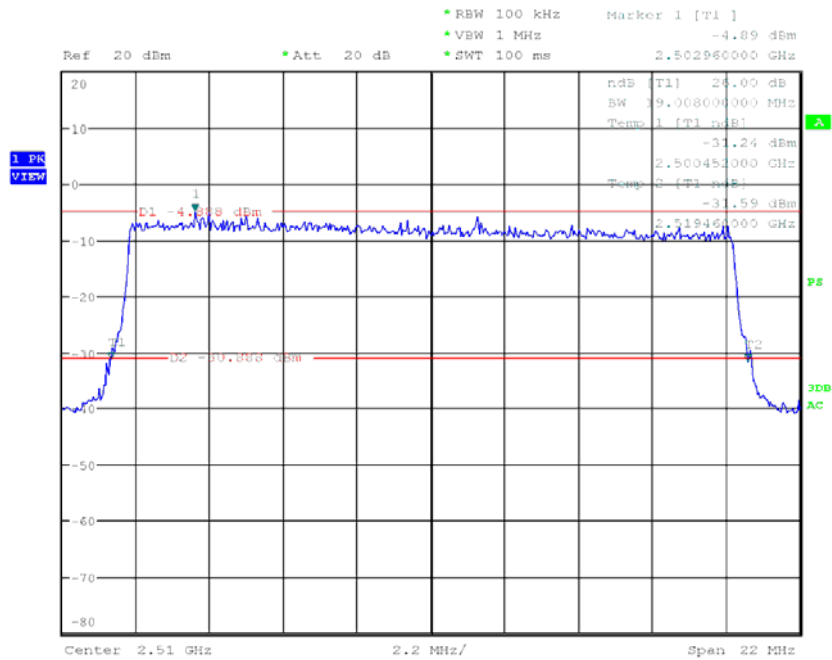


Date: 13.JAN.2017 16:20:41

Diagram 34.721_26 dB

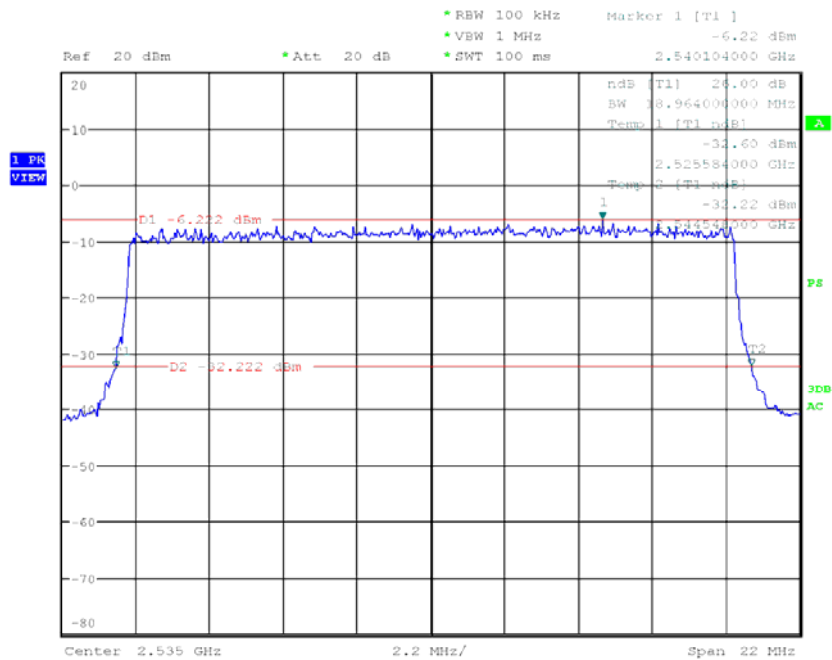
1.17.4.4. BW = 20MHz

QPSK-Modulation



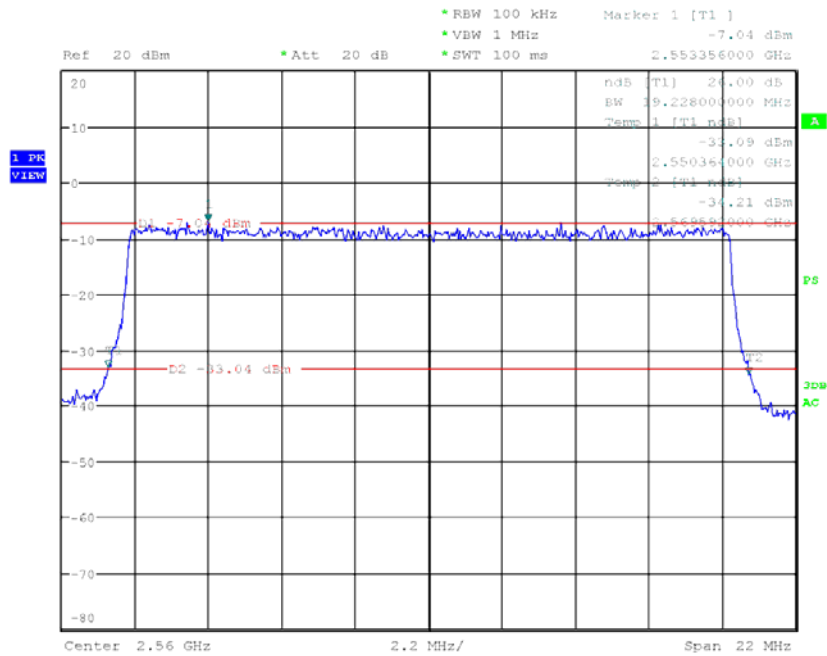
Date: 13.JAN.2017 16:10:44

Diagram 34.710_26 dB



Date: 13.JAN.2017 16:11:46

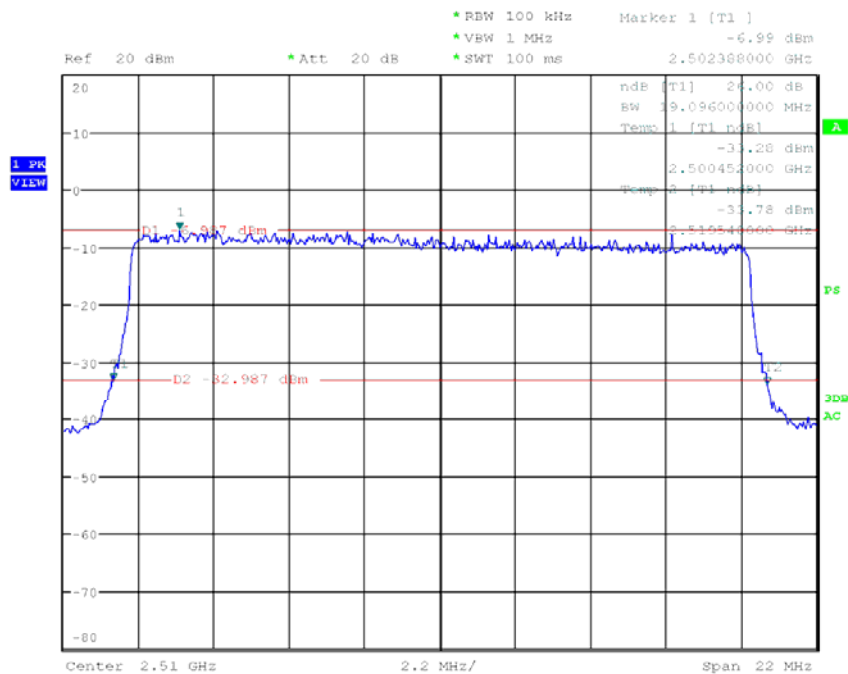
Diagram 34.711_26 dB



Date: 13.JAN.2017 16:12:27

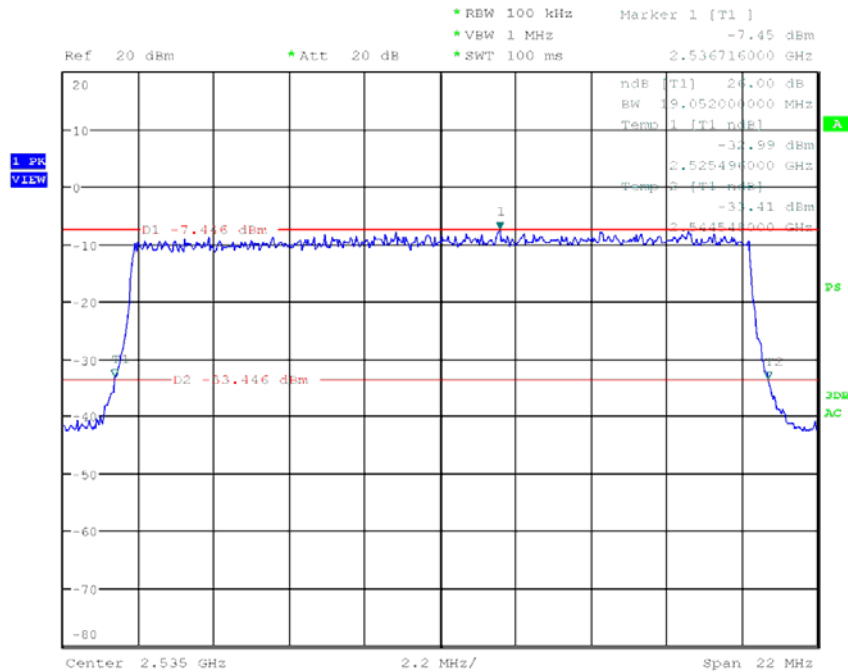
Diagram 34.712_26 dB

16-QAM-Modulation



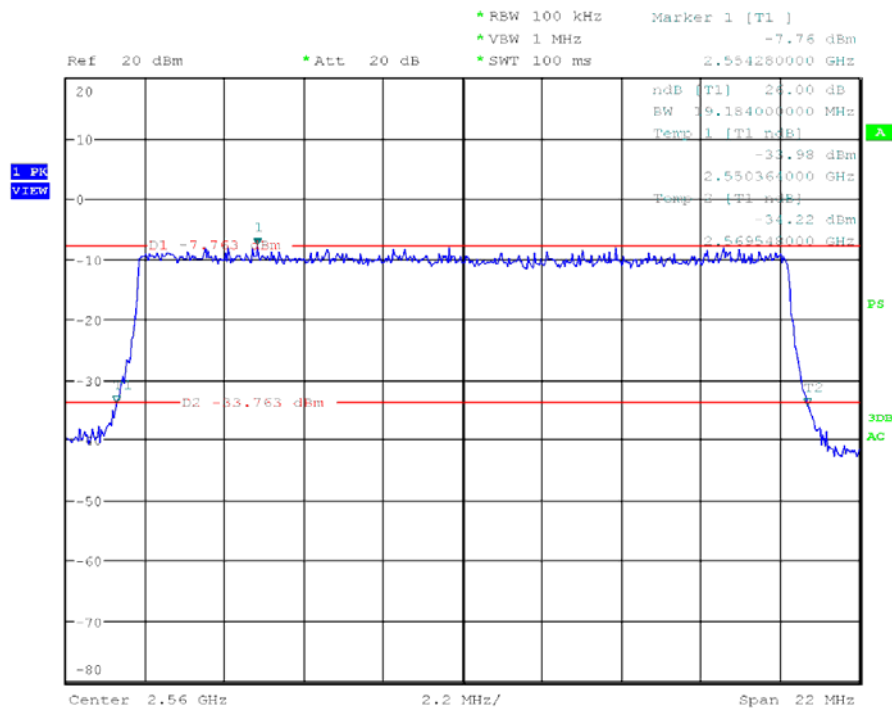
Date: 13.JAN.2017 16:21:45

Diagram 34.722_26 dB



Date: 13.JAN.2017 16:22:17

Diagram 34.723_26 dB



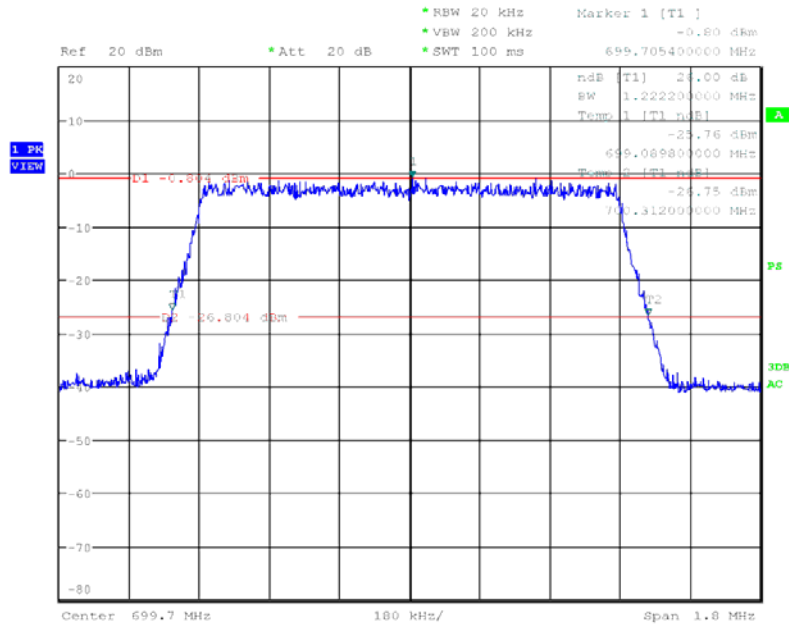
Date: 13.JAN.2017 16:22:56

Diagram 34.724_26 dB

1.17.5. LTE Band 12

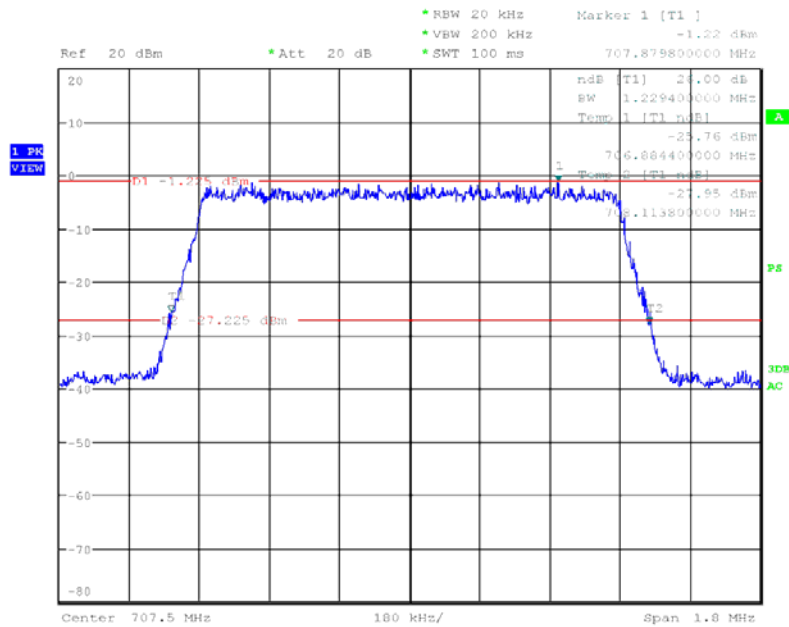
1.17.5.1. BW = 1.4MHz

QPSK-Modulation



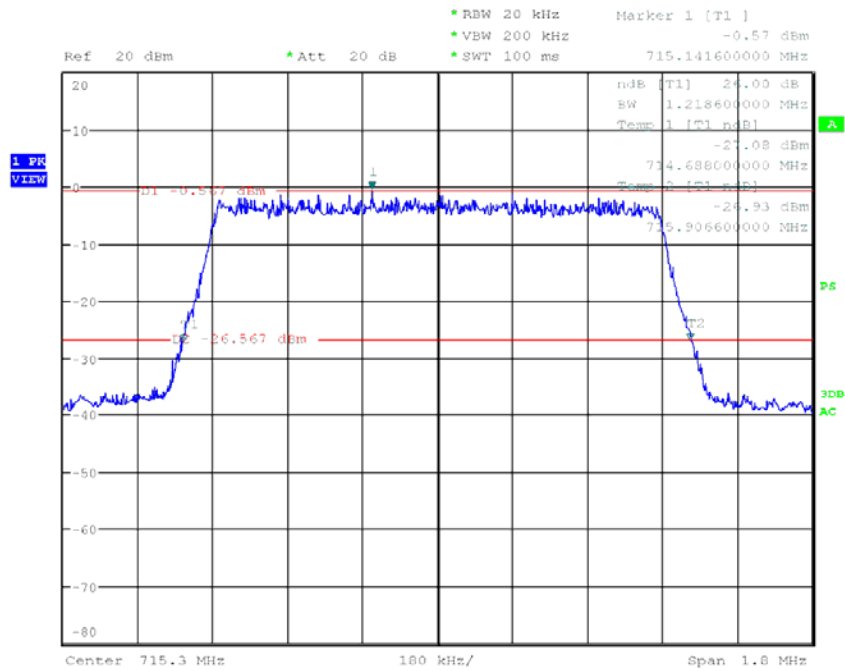
Date: 19.APR.2017 13:11:00

Diagram 34.121_26 dB



Date: 19.APR.2017 13:11:47

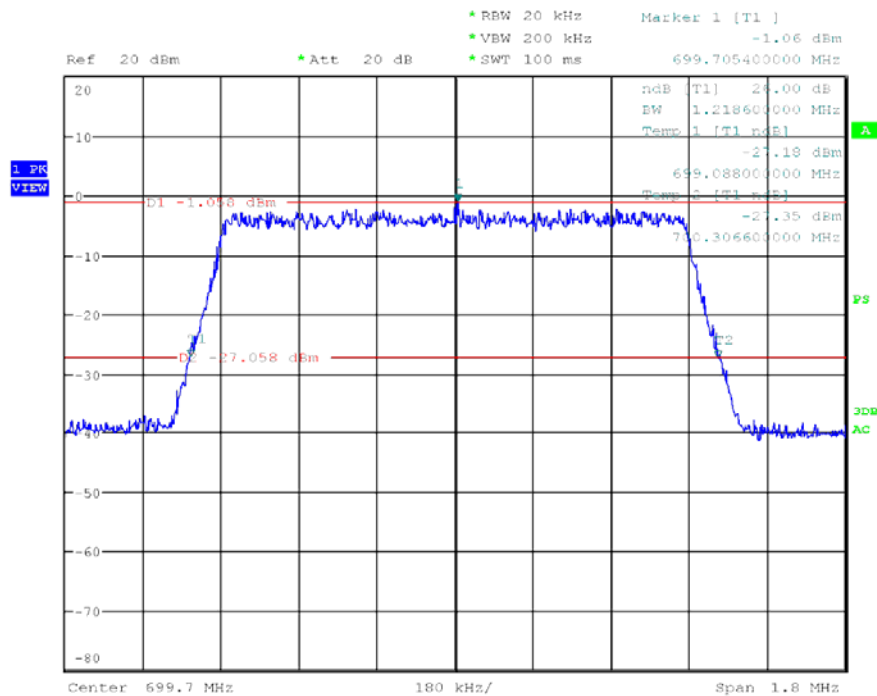
Diagram 34.122_26 dB



Date: 19.APR.2017 13:12:20

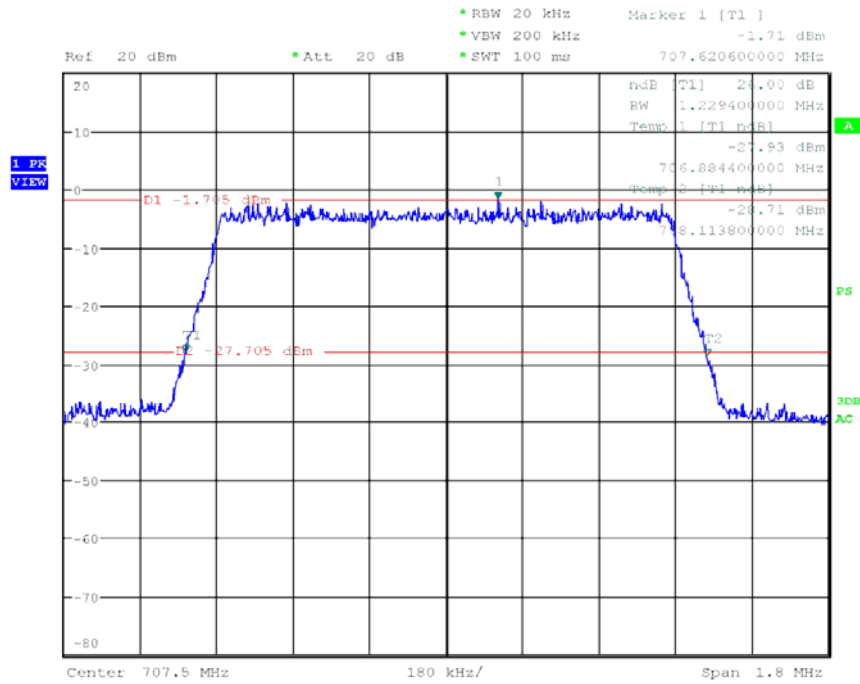
Diagram 34.123_26 dB

16-QAM-Modulation



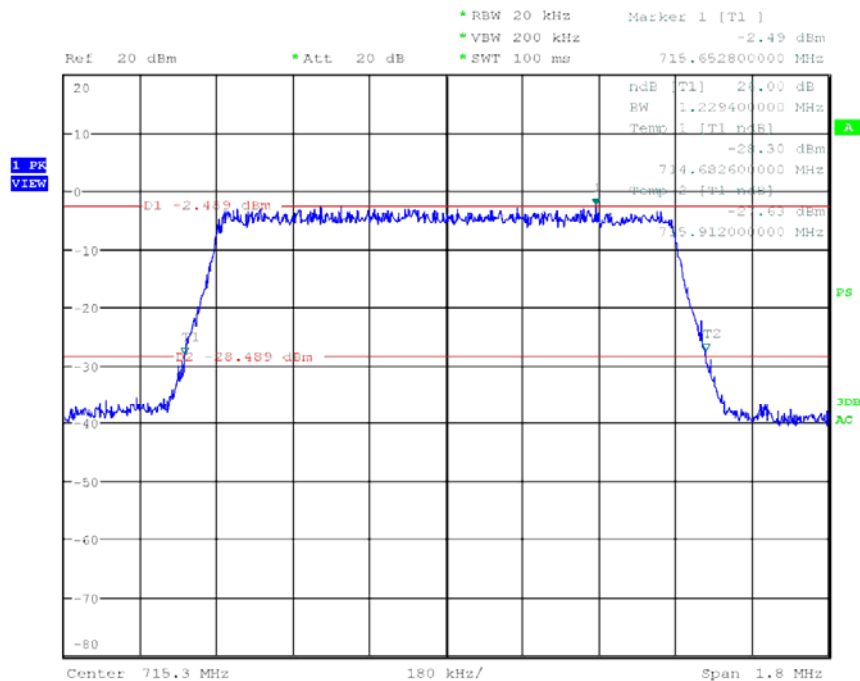
Date: 19.APR.2017 13:15:25

Diagram 34.127_26 dB



Date: 19.APR.2017 13:15:57

Diagram 34.128_26 dB

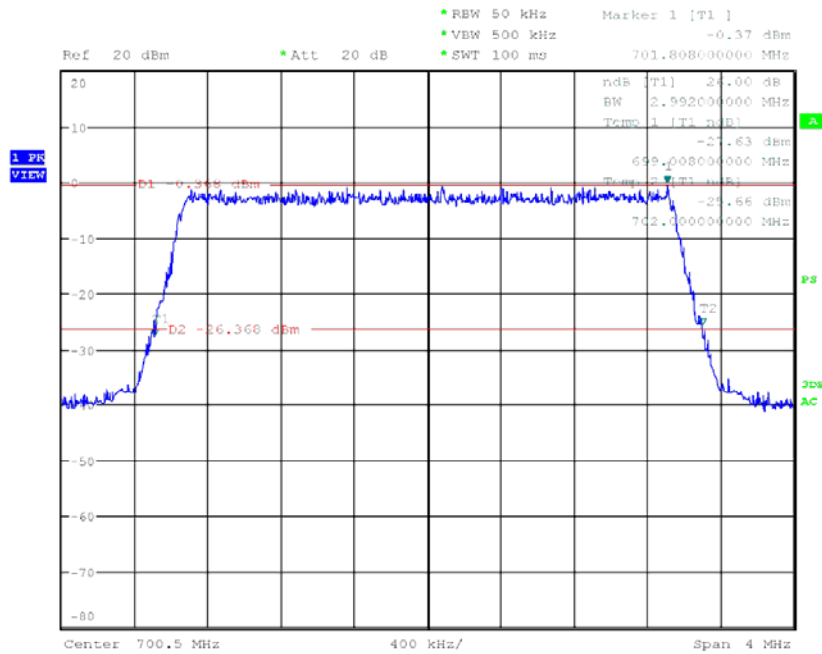


Date: 19.APR.2017 13:16:29

Diagram 34.129_26 dB

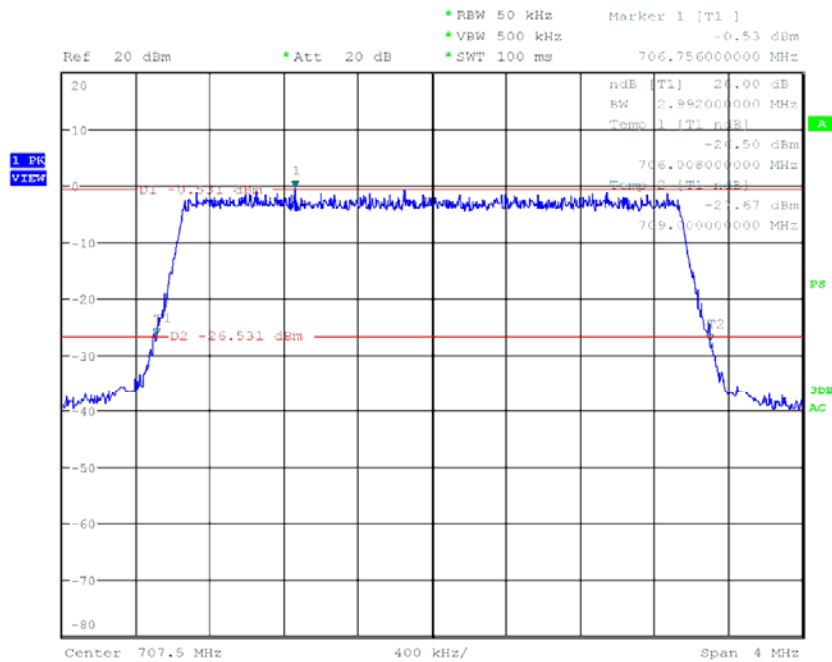
1.17.5.2. BW = 3MHz

QPSK-Modulation



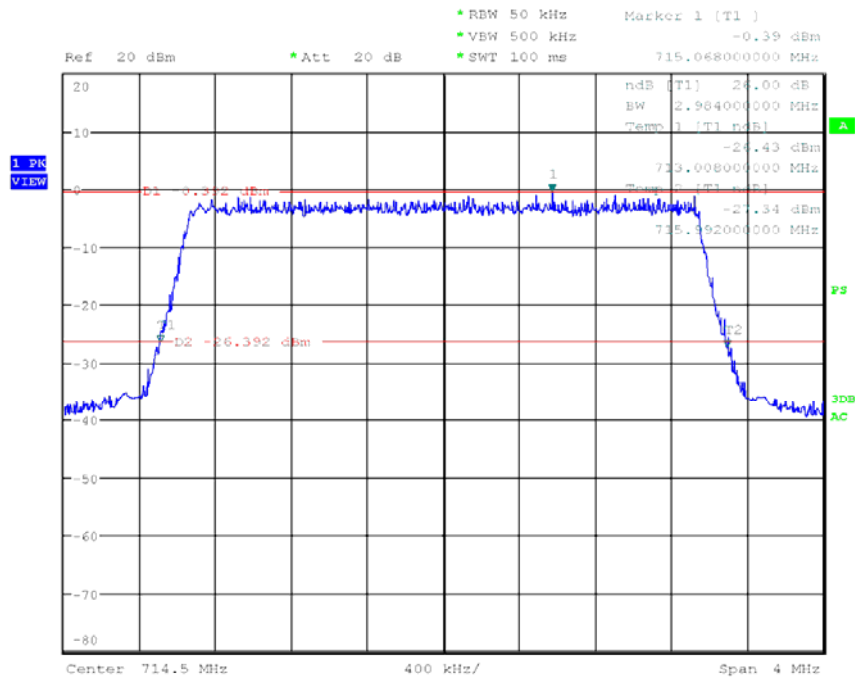
Date: 19.APR.2017 13:13:36

Diagram 34.124_26 dB



Date: 19.APR.2017 13:14:07

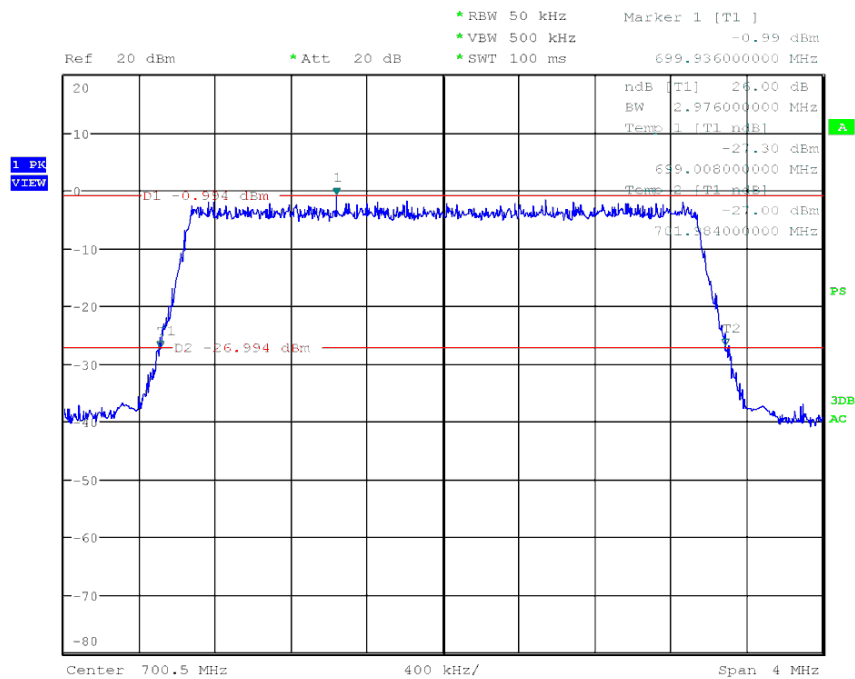
Diagram 34.125_26 dB



Date: 19.APR.2017 13:14:39

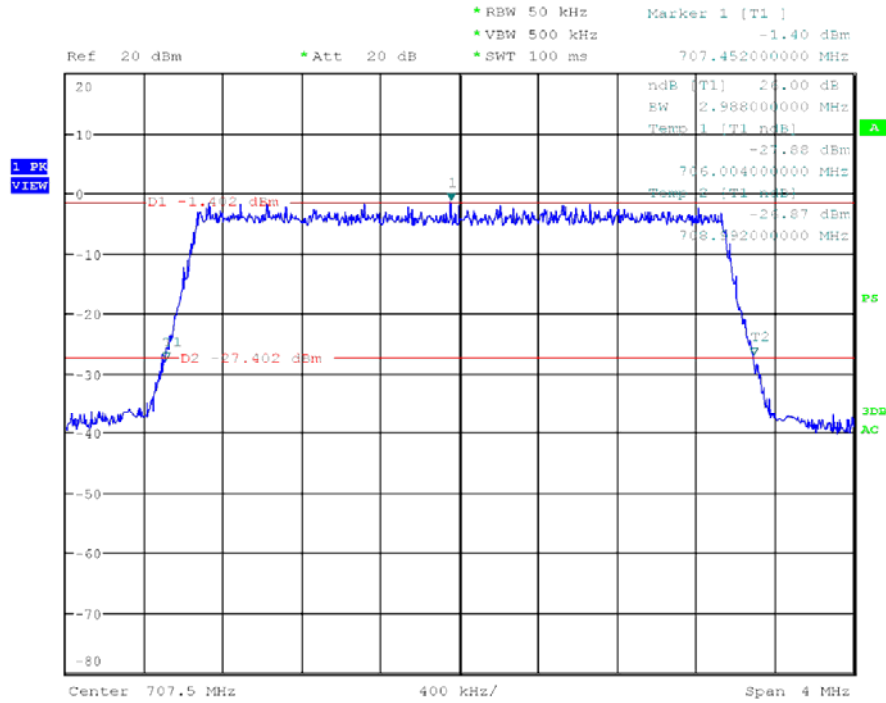
Diagram 34.126_26 dB

16-QAM-Modulation



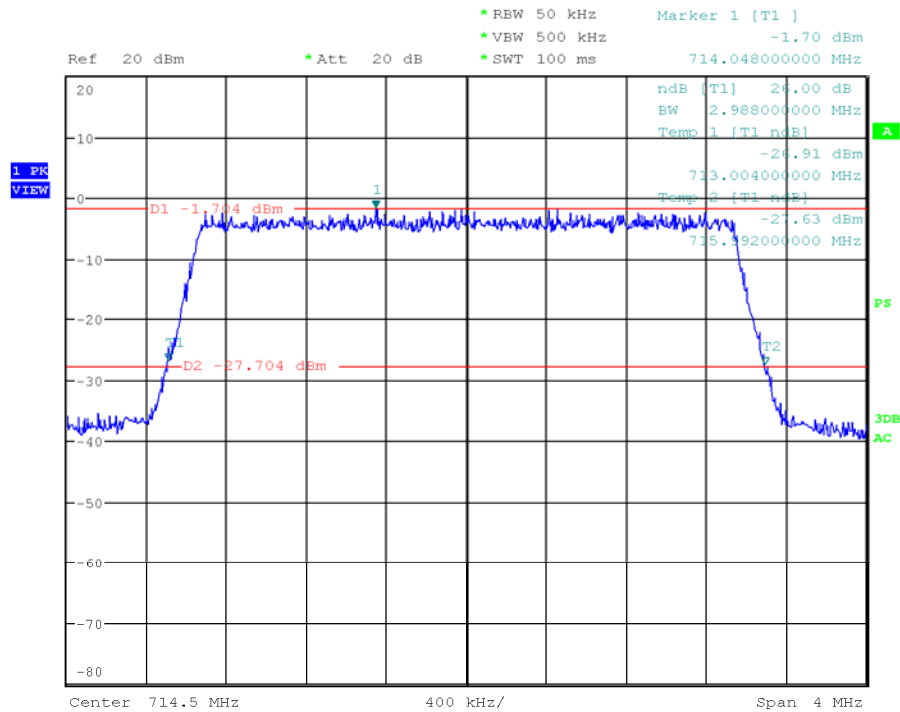
Date: 19.APR.2017 13:17:25

Diagram 34.130_26 dB



Date: 19.APR.2017 13:17:59

Diagram 34.131_26 dB

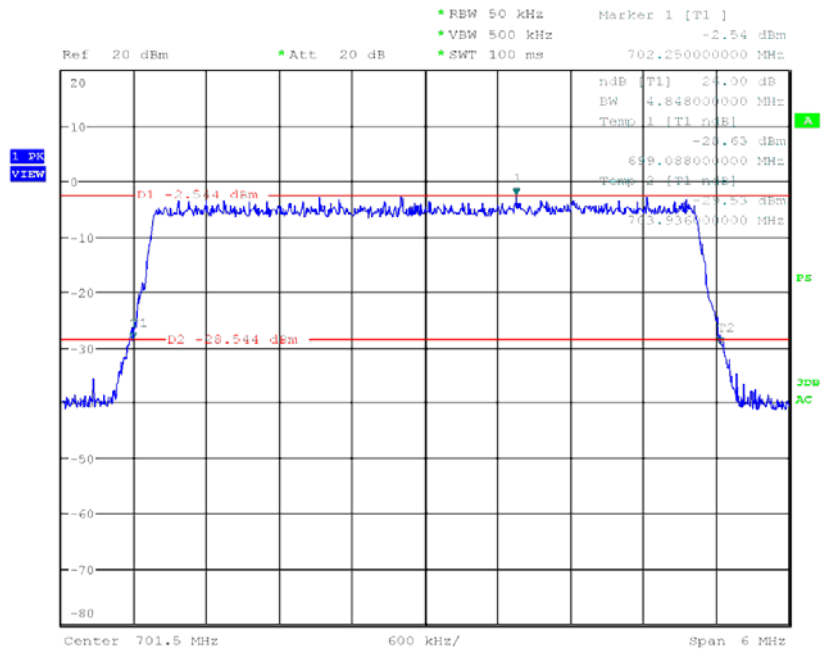


Date: 19.APR.2017 13:18:35

Diagram 34.132_26 dB

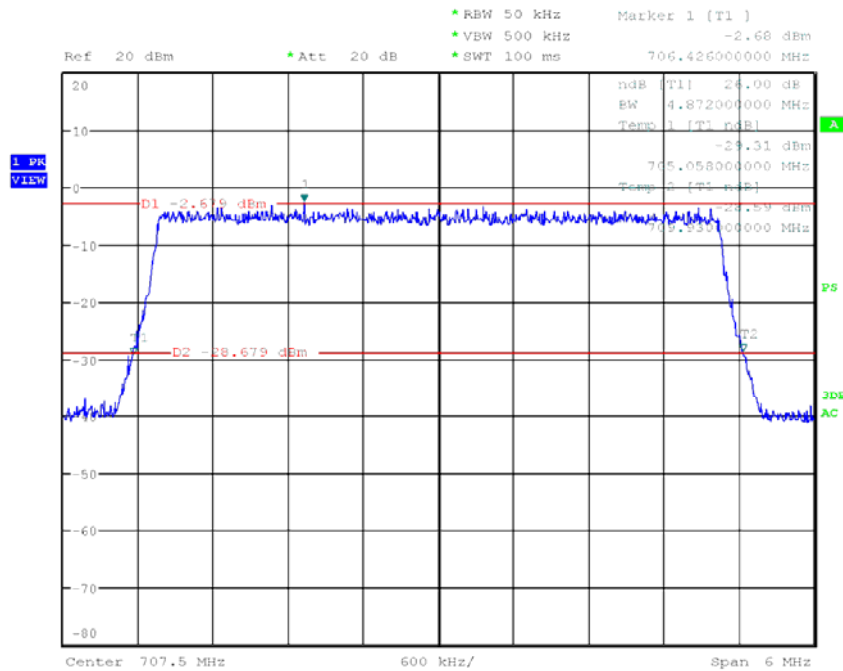
1.17.5.3. BW = 5MHz

QPSK-Modulation



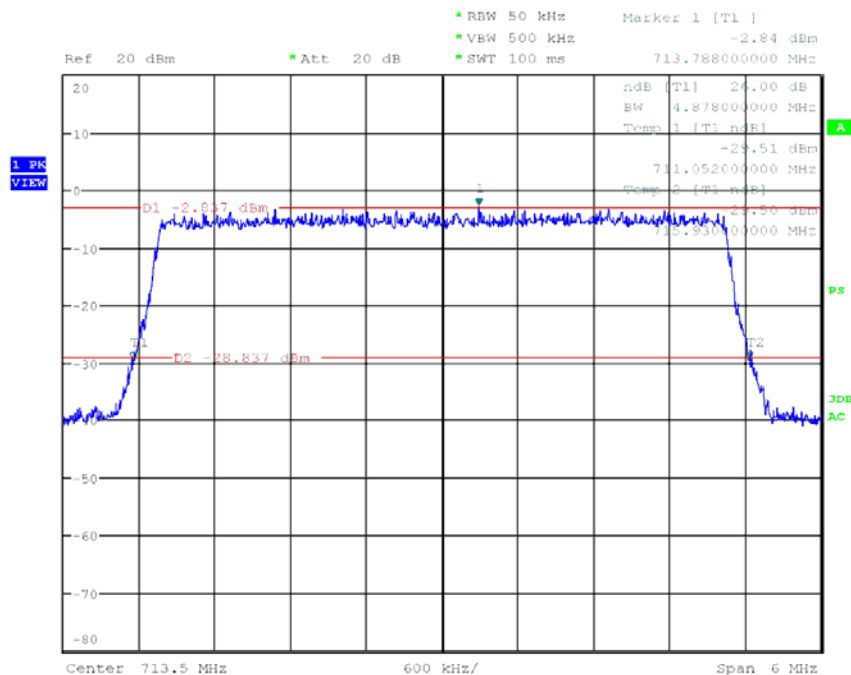
Date: 19.APR.2017 13:20:14

Diagram 34.133_26 dB



Date: 19.APR.2017 13:20:52

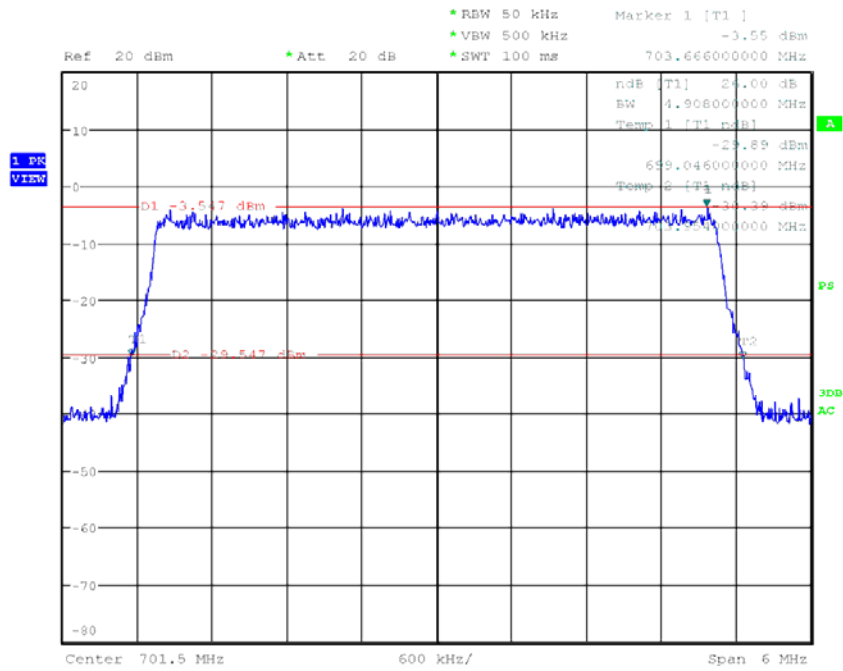
Diagram 34.134_26 dB



Date: 19.APR.2017 13:21:29

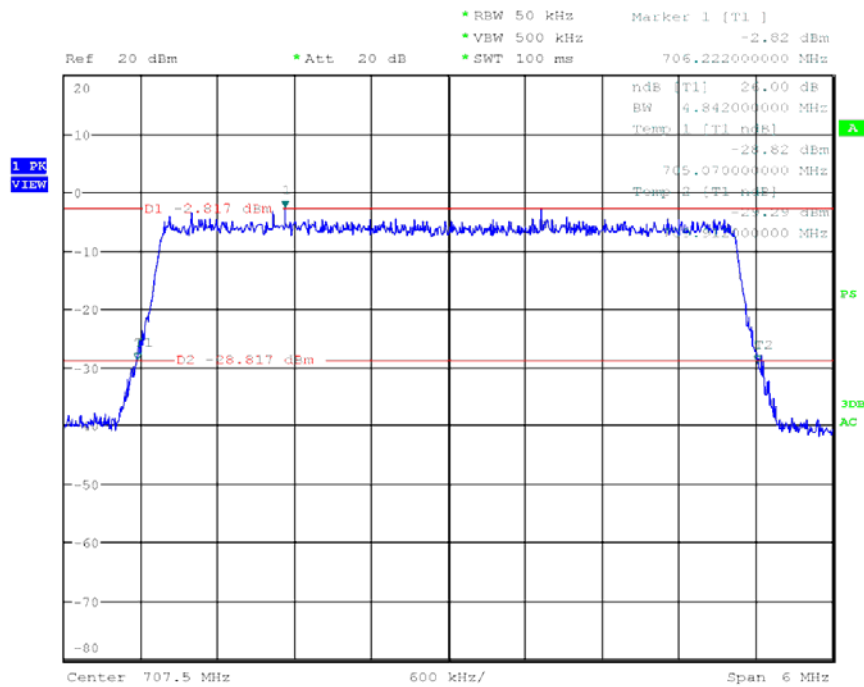
Diagram 34.135_26 dB

16-QAM-Modulation



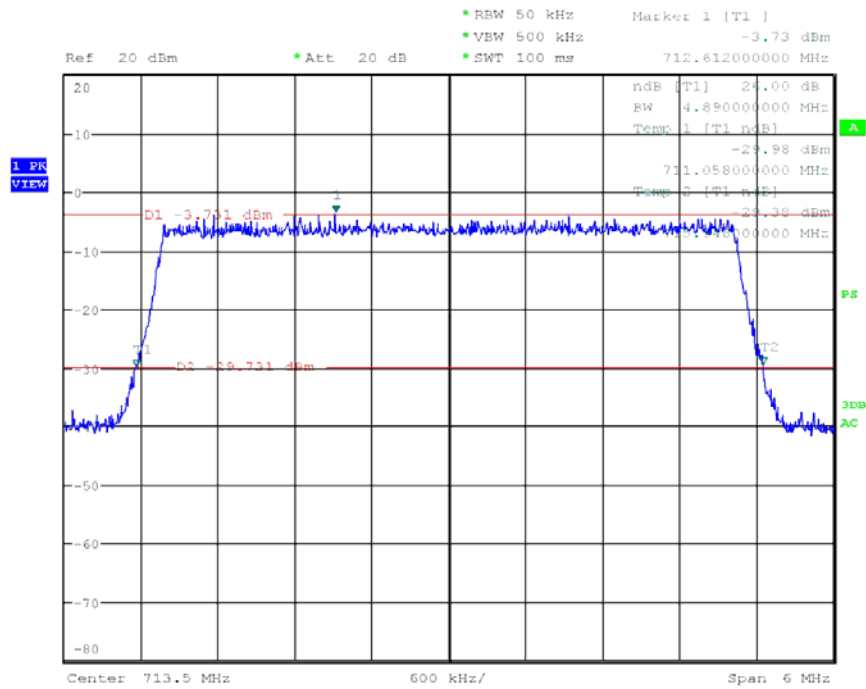
Date: 19.APR.2017 13:24:49

Diagram 34. 139_26 dB



Date: 19.APR.2017 13:25:34

Diagram 34. 140_26 dB

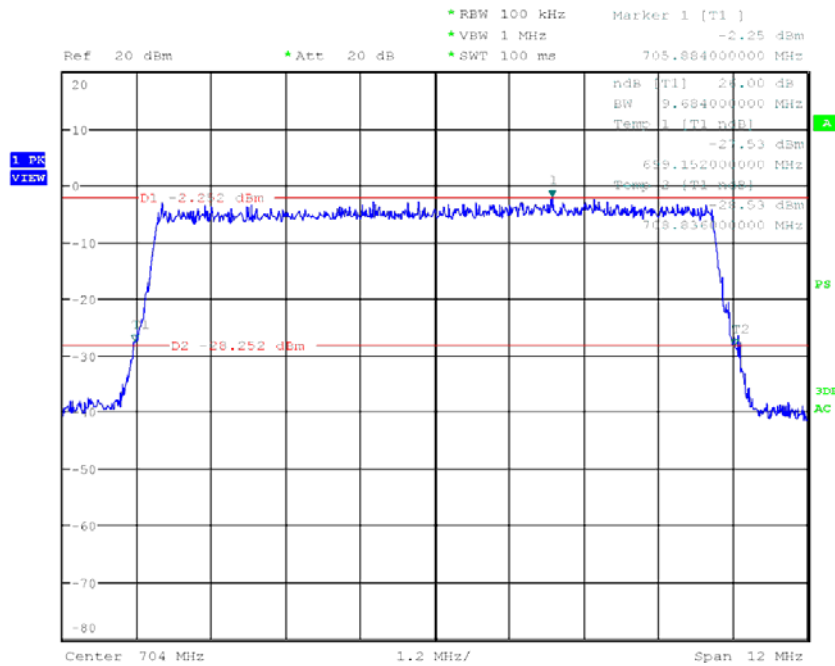


Date: 19.APR.2017 13:26:09

Diagram 34.141_26 dB

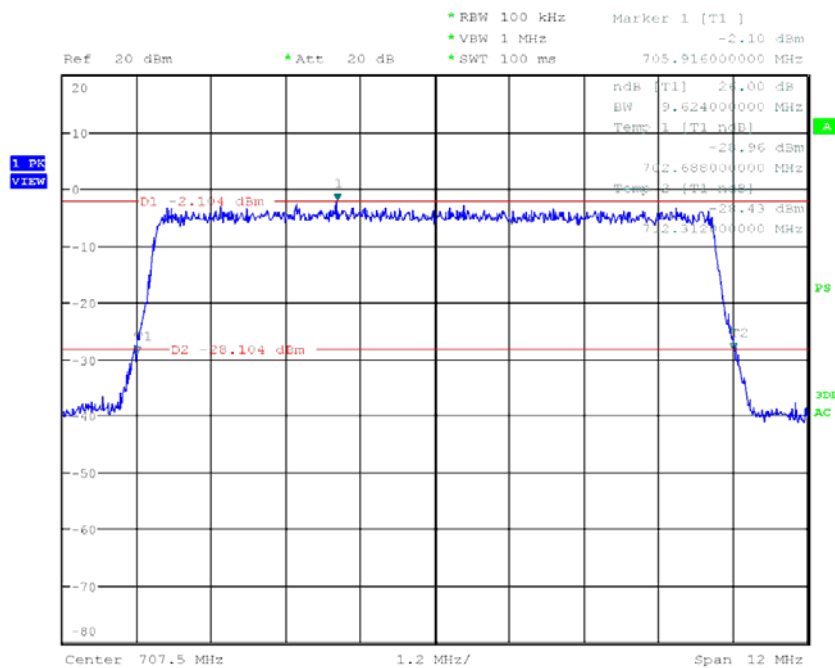
1.17.5.4. BW = 10MHz

QPSK-Modulation



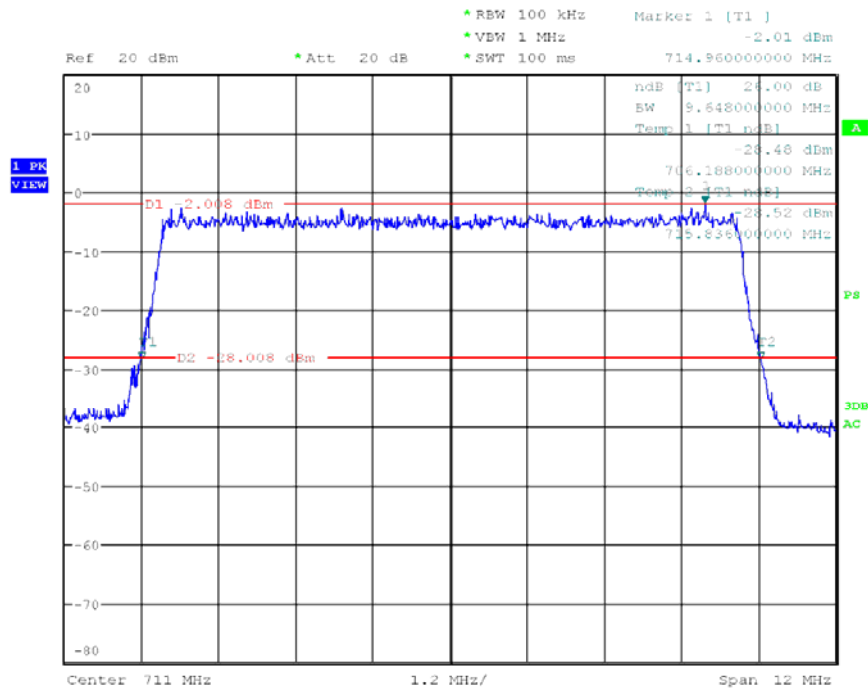
Date: 19.APR.2017 13:22:56

Diagram 34.136_26 dB



Date: 19.APR.2017 13:23:31

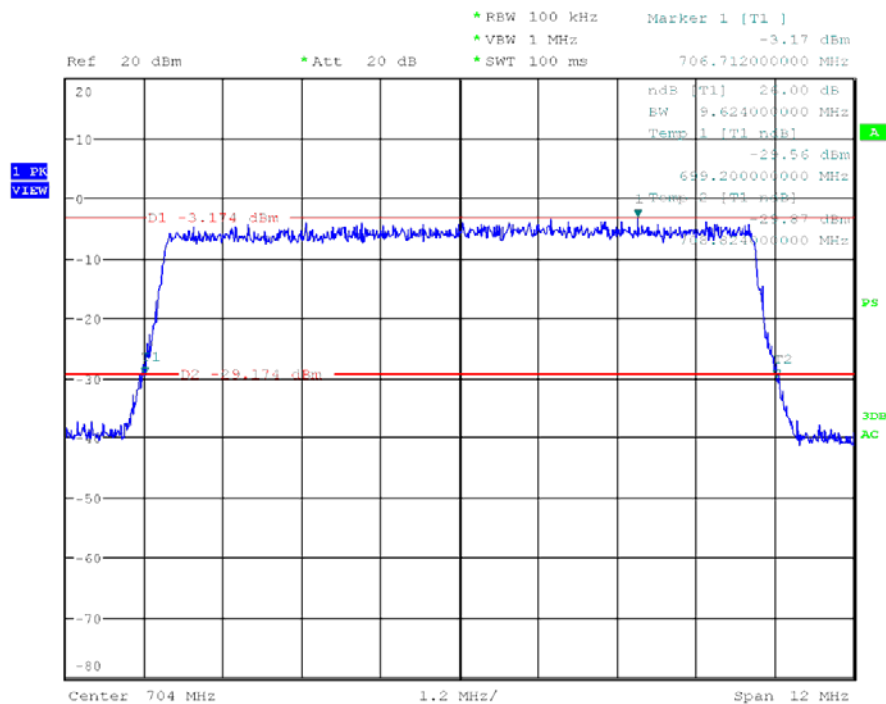
Diagram 34.137_26 dB



Date: 19.APR.2017 13:24:07

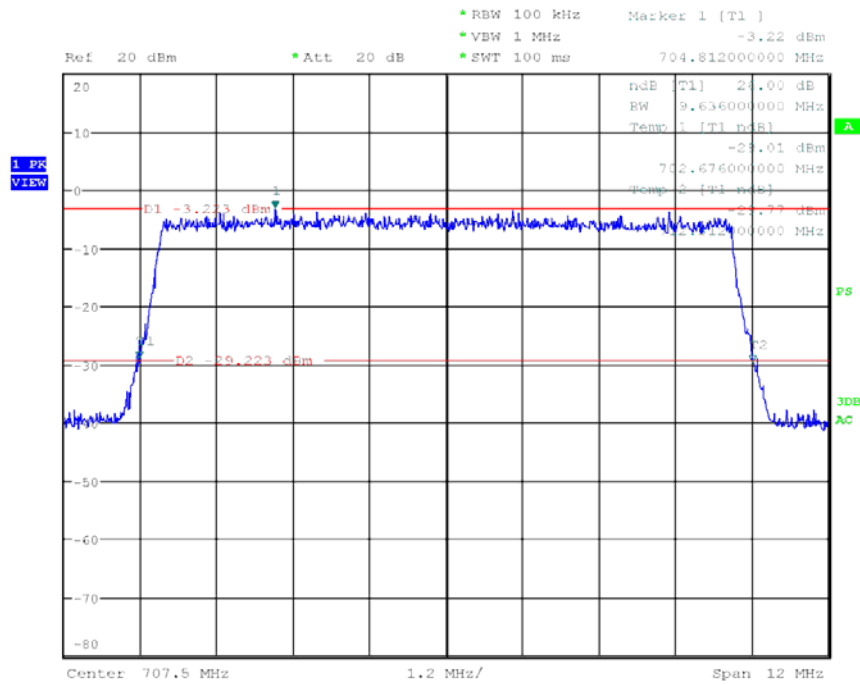
Diagram 34.138_26 dB

16-QAM-Modulation



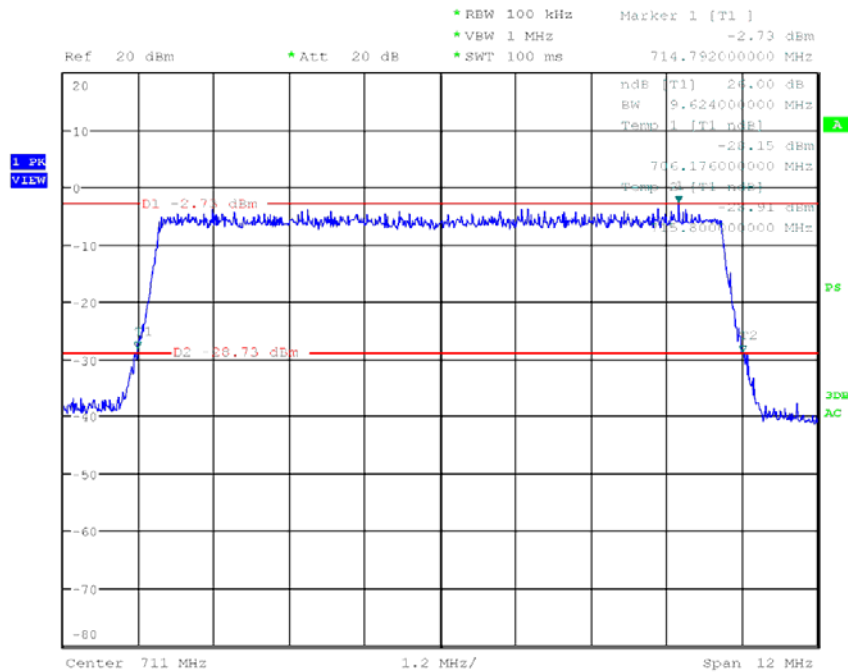
Date: 19.APR.2017 13:29:20

Diagram 34.142_26 dB



Date: 19.APR.2017 13:30:07

Diagram 34.143_26 dB



Date: 19.APR.2017 13:30:43

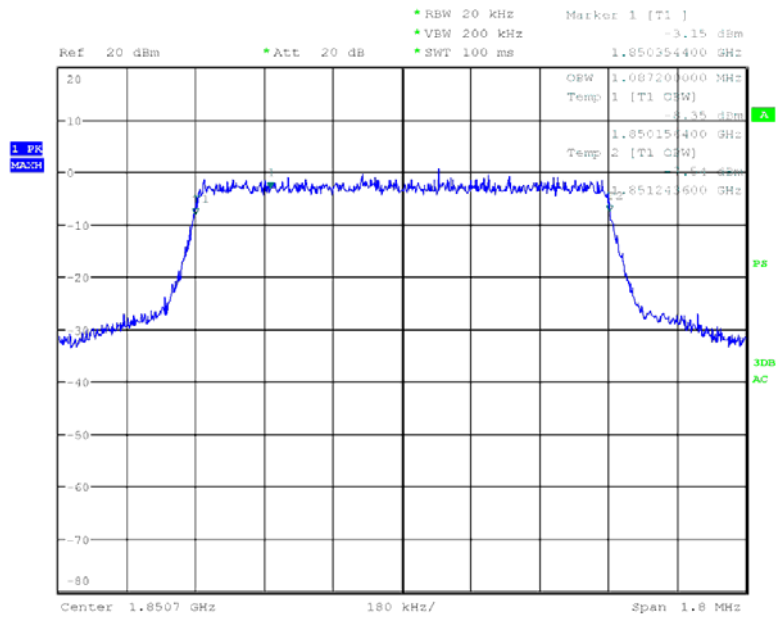
Diagram 34.144_26 dB

1.18. 99% occupied bandwidth

1.18.1. LTE Band 2

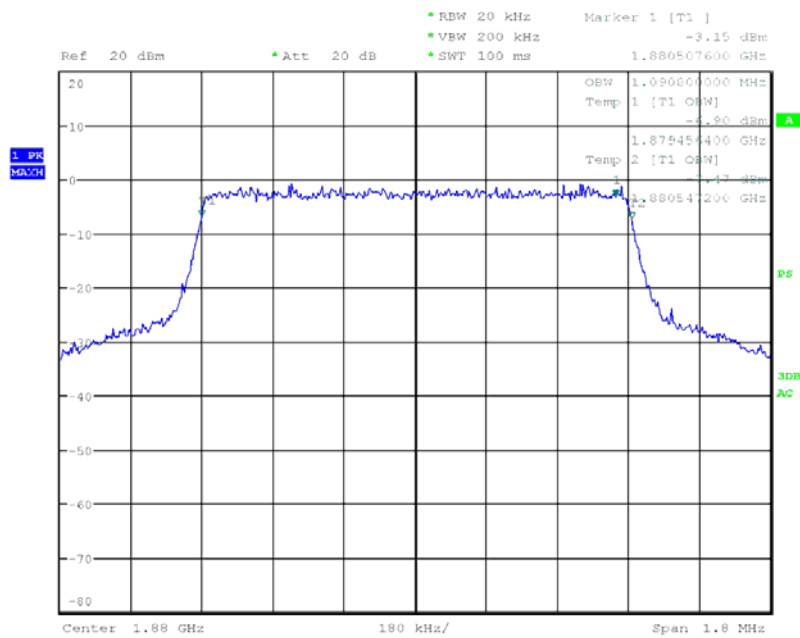
1.18.1.1. BW = 1.4MHz

QPSK-Modulation



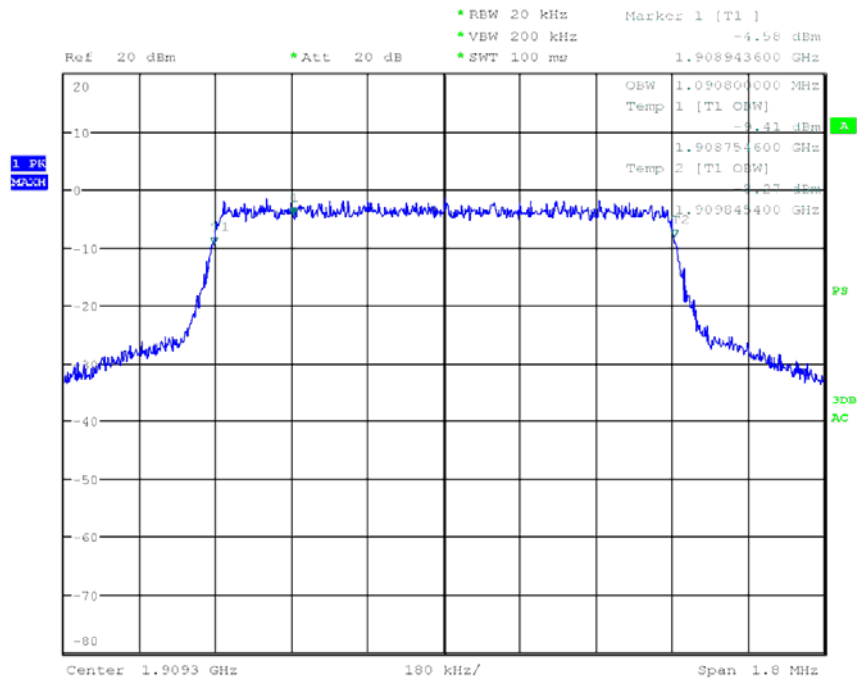
Date: 19.APR.2017 13:32:25

Diagram 35_200



Date: 13.JAN.2017 16:56:18

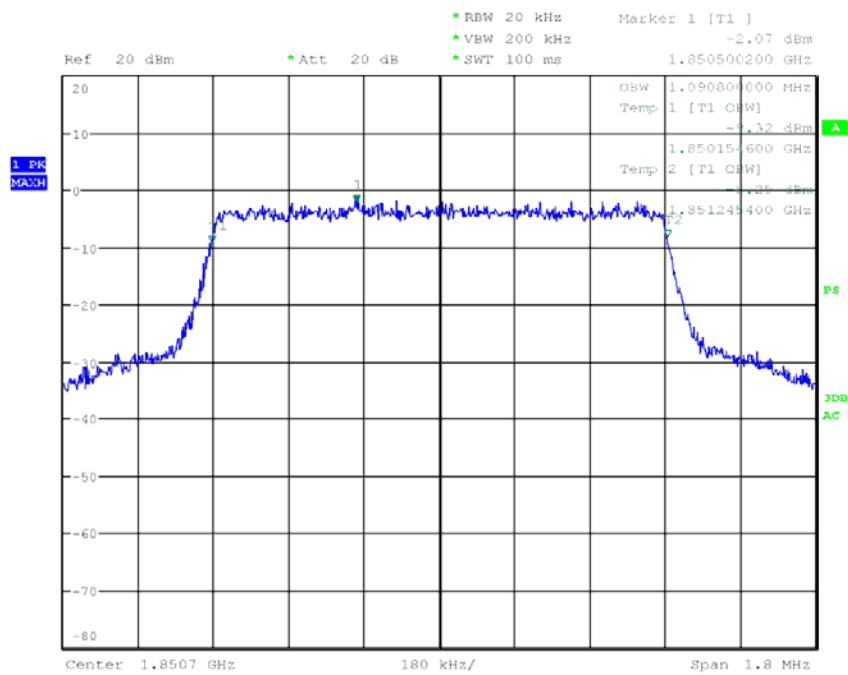
Diagram 35_201



Date: 19.APR.2017 13:33:20

Diagram 35_202

16-QAM-Modulation



Date: 19.APR.2017 13:50:17

Diagram 35_218