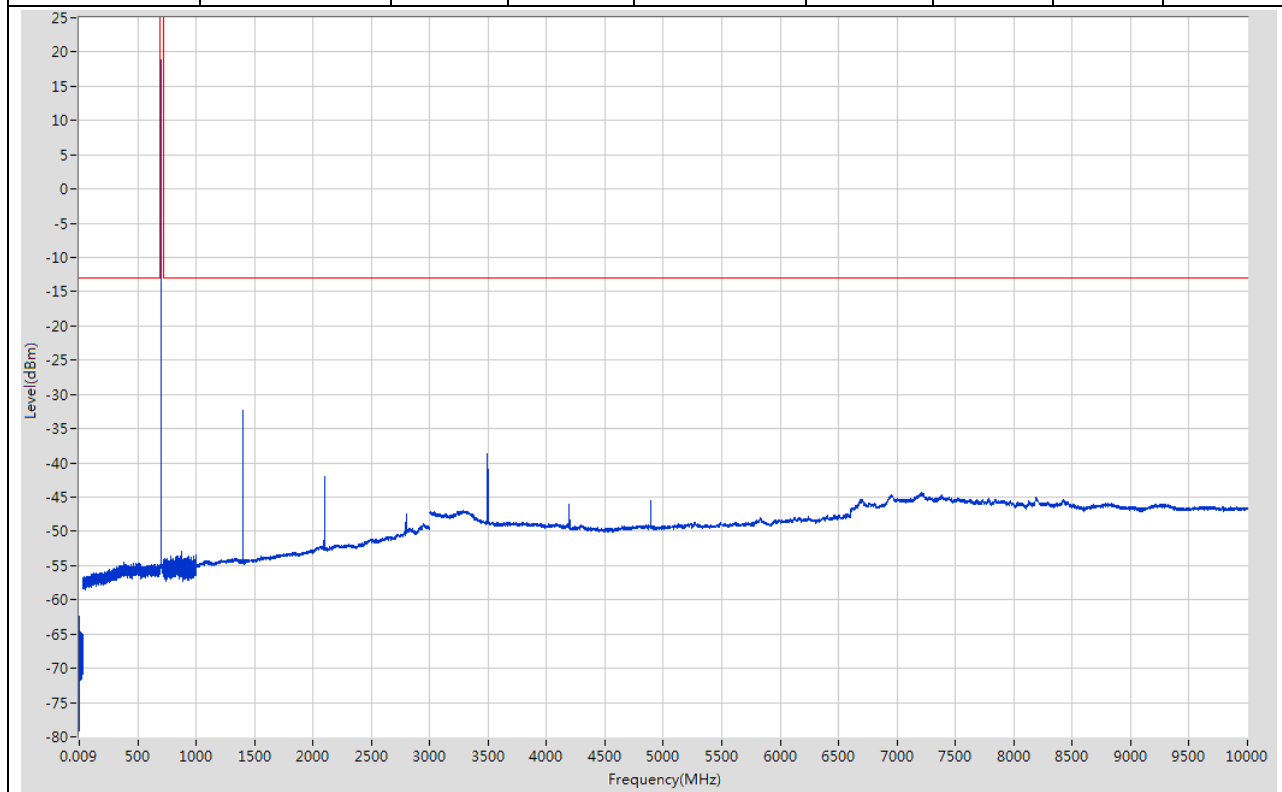


## **A.5 Spurious Emission at Antenna Terminals**

## 1. LTE\_Band12

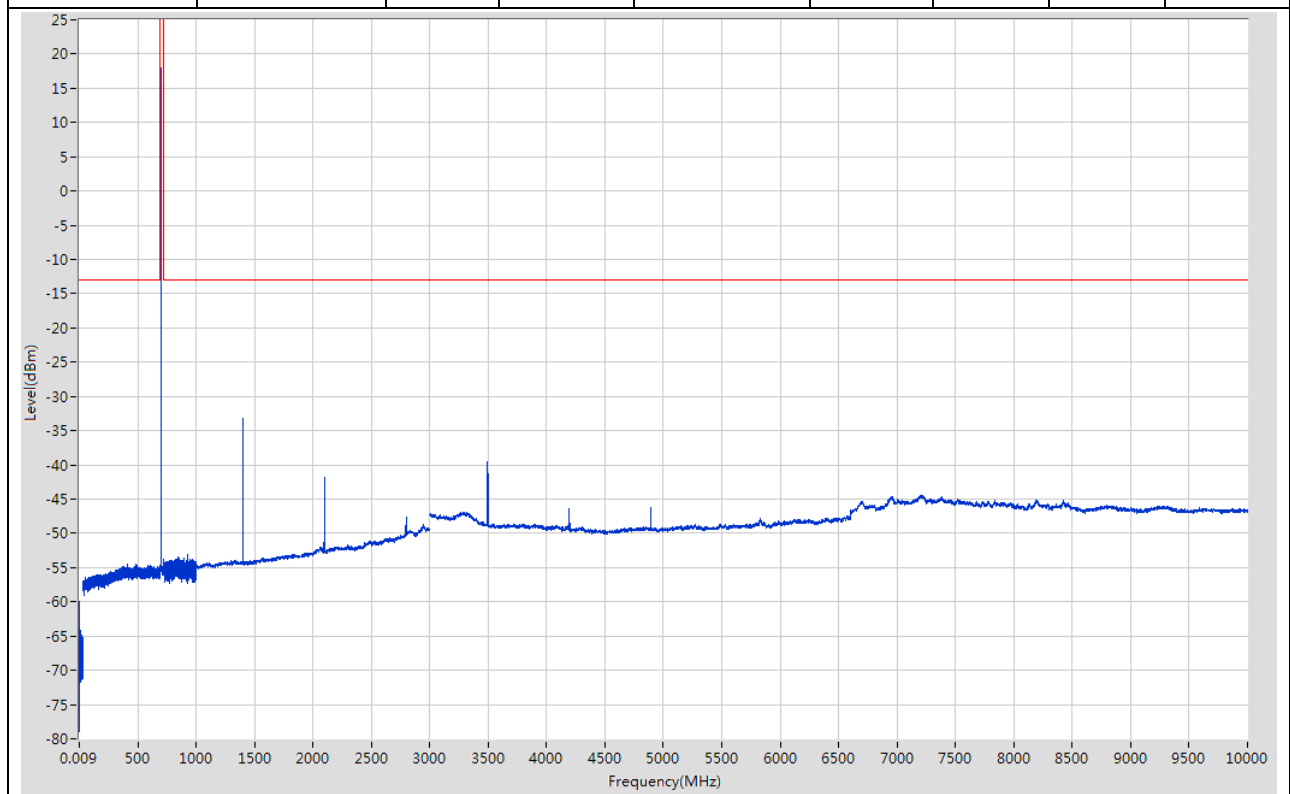
### 1.1. LTE Spurious Emissions(NTNV)(Subtest:1, Channel:23017, Bandwidth:1.4, Modulation:QPSK, RB Number: 1, RB Position:LOW)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.009	-62.96	-13	Pass	401
0.15	30	0.01	RMS	0.25	-62.35	-13	Pass	2985
30	689	0.1	RMS	382.453	-54.44	-13	Pass	6590
689	725	0.1	RMS	699.26	18.93	60	Pass	401
725	1000	0.1	RMS	876.655	-52.98	-13	Pass	2750
1000	3000	1	RMS	1398.199	-32.39	-13	Pass	2000
3000	10000	1	RMS	3496.071	-38.75	-13	Pass	7000



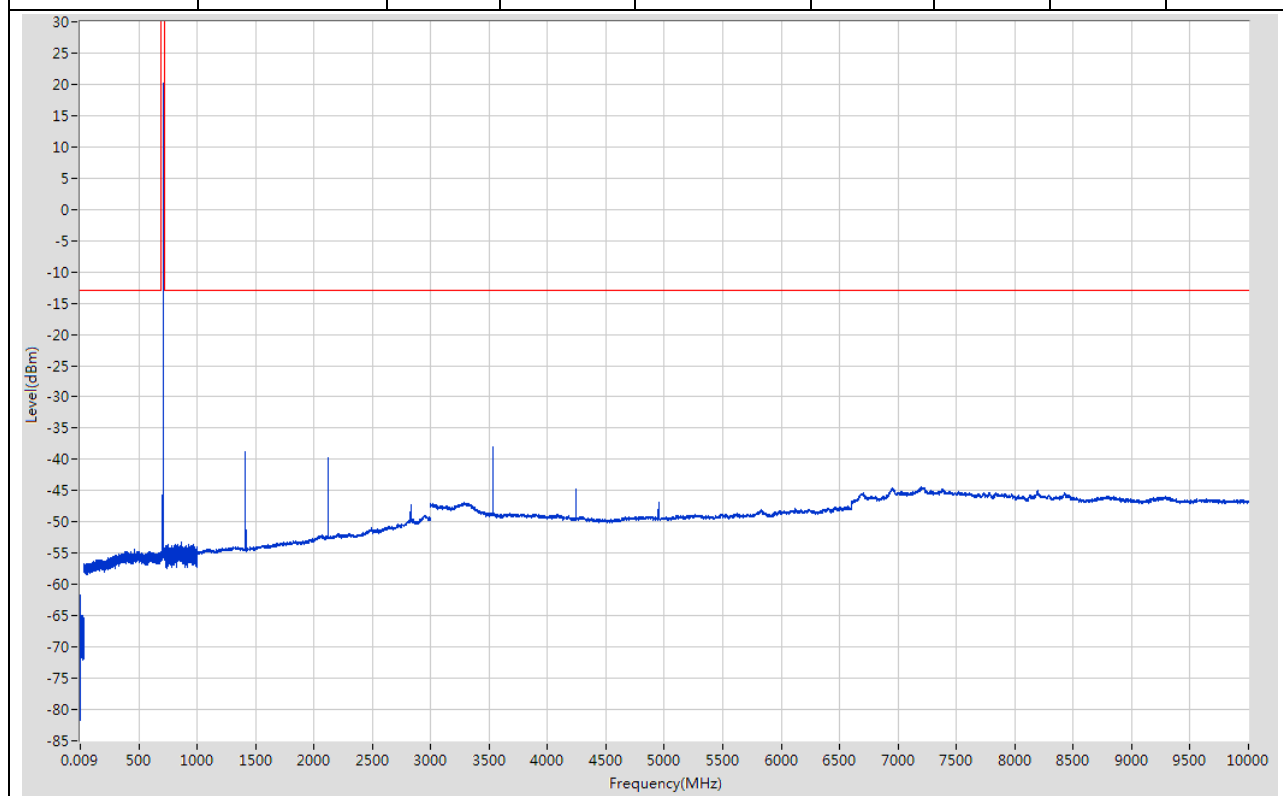
## 1.2. LTE Spurious Emissions(NTNV)(Subtest:2, Channel:23017, Bandwidth:1.4, Modulation:Q16, RB Number: 1, RB Position:LOW)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.011	-62.75	-13	Pass	401
0.15	30	0.01	RMS	0.17	-60	-13	Pass	2985
30	689	0.1	RMS	486.269	-54.49	-13	Pass	6590
689	725	0.1	RMS	699.26	18.03	60	Pass	401
725	1000	0.1	RMS	931.975	-53.11	-13	Pass	2750
1000	3000	1	RMS	1398.199	-33.25	-13	Pass	2000
3000	10000	1	RMS	3496.071	-39.53	-13	Pass	7000



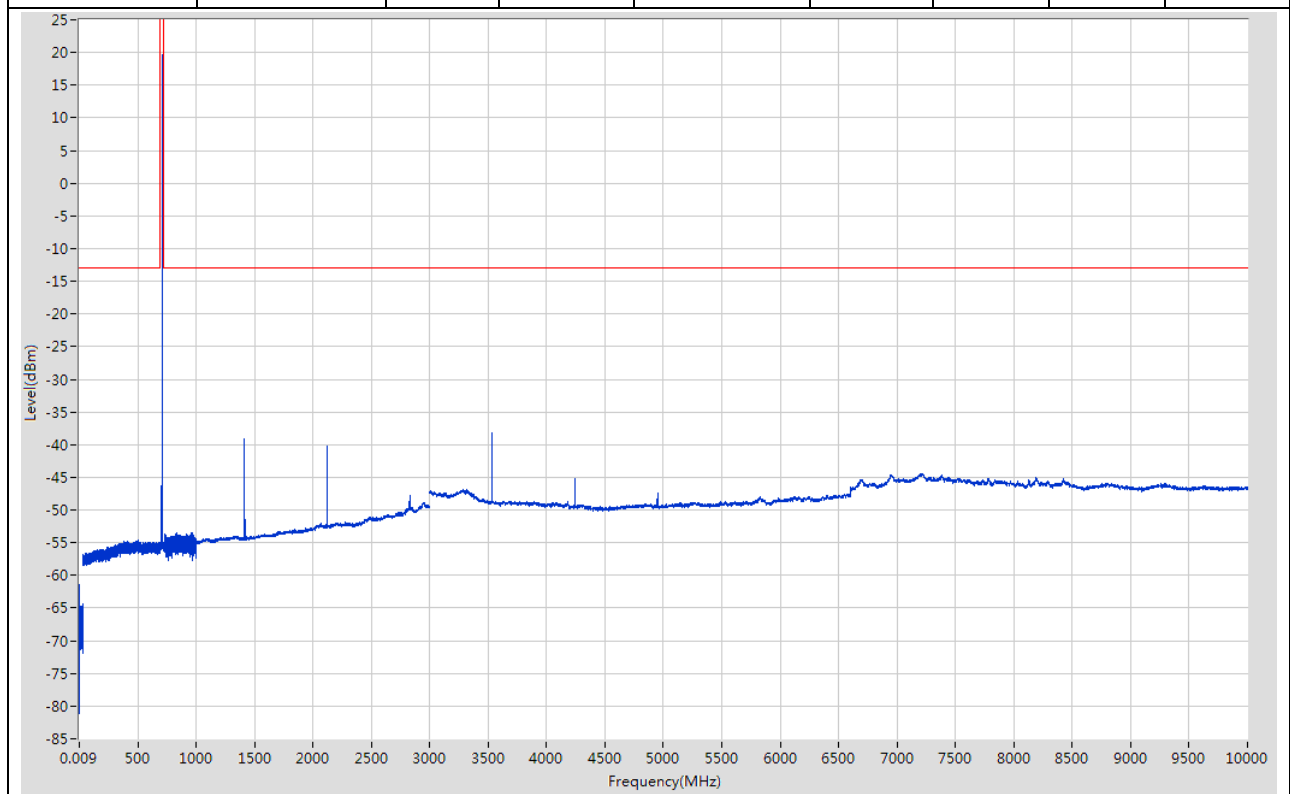
### 1.3. LTE Spurious Emissions(NTNV)(Subtest:3, Channel:23095, Bandwidth:1.4, Modulation:QPSK, RB Number: 1, RB Position:LOW)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.01	-61.86	-13	Pass	401
0.15	30	0.01	RMS	0.2	-61.75	-13	Pass	2985
30	689	0.1	RMS	468.567	-54.45	-13	Pass	6590
689	725	0.1	RMS	707.09	20.26	60	Pass	401
725	1000	0.1	RMS	863.45	-53.27	-13	Pass	2750
1000	3000	1	RMS	1414.207	-38.74	-13	Pass	2000
3000	10000	1	RMS	3535.076	-37.97	-13	Pass	7000



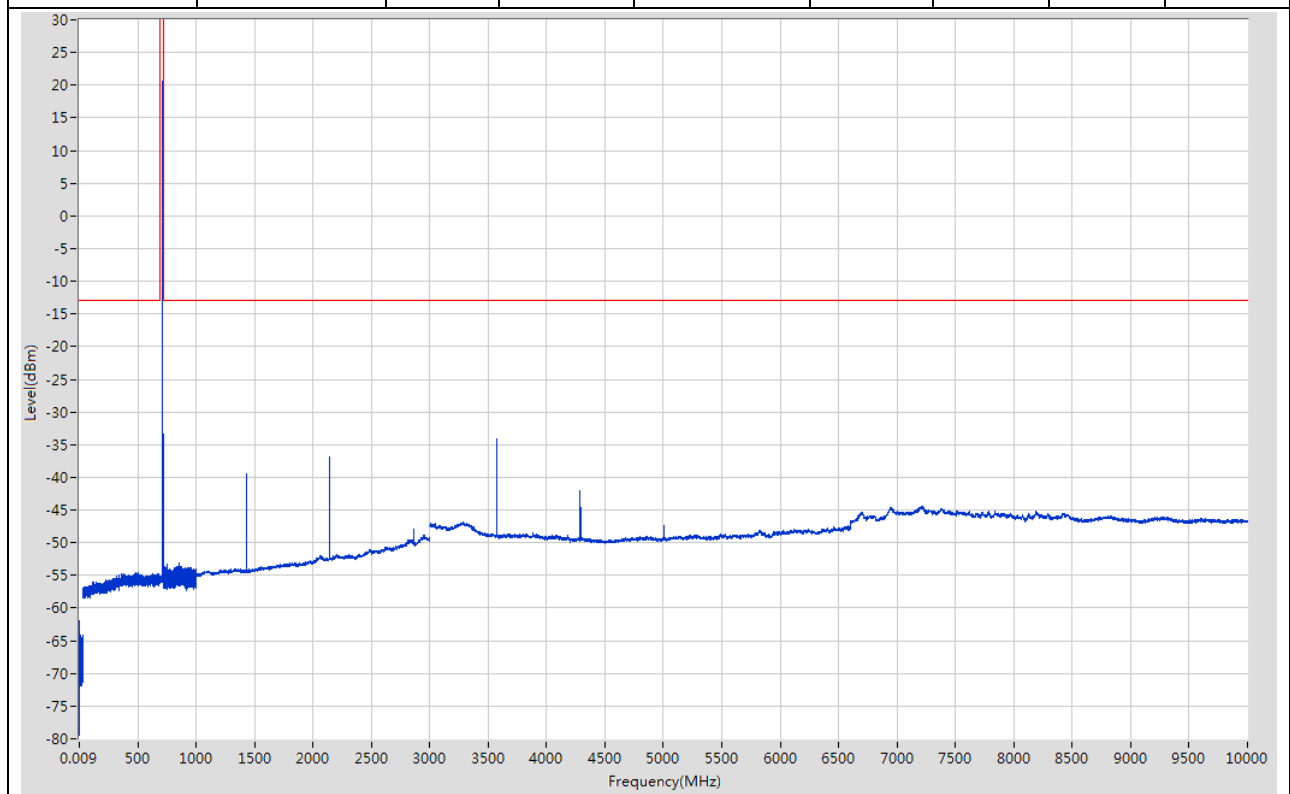
#### 1.4. LTE Spurious Emissions(NTNV)(Subtest:4, Channel:23095, Bandwidth:1.4, Modulation:Q16, RB Number: 1, RB Position:LOW)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.013	-63.04	-13	Pass	401
0.15	30	0.01	RMS	0.21	-61.47	-13	Pass	2985
30	689	0.1	RMS	500.371	-54.68	-13	Pass	6590
689	725	0.1	RMS	707.09	19.65	60	Pass	401
725	1000	0.1	RMS	836.24	-53.46	-13	Pass	2750
1000	3000	1	RMS	1414.207	-39.04	-13	Pass	2000
3000	10000	1	RMS	3535.076	-38.24	-13	Pass	7000



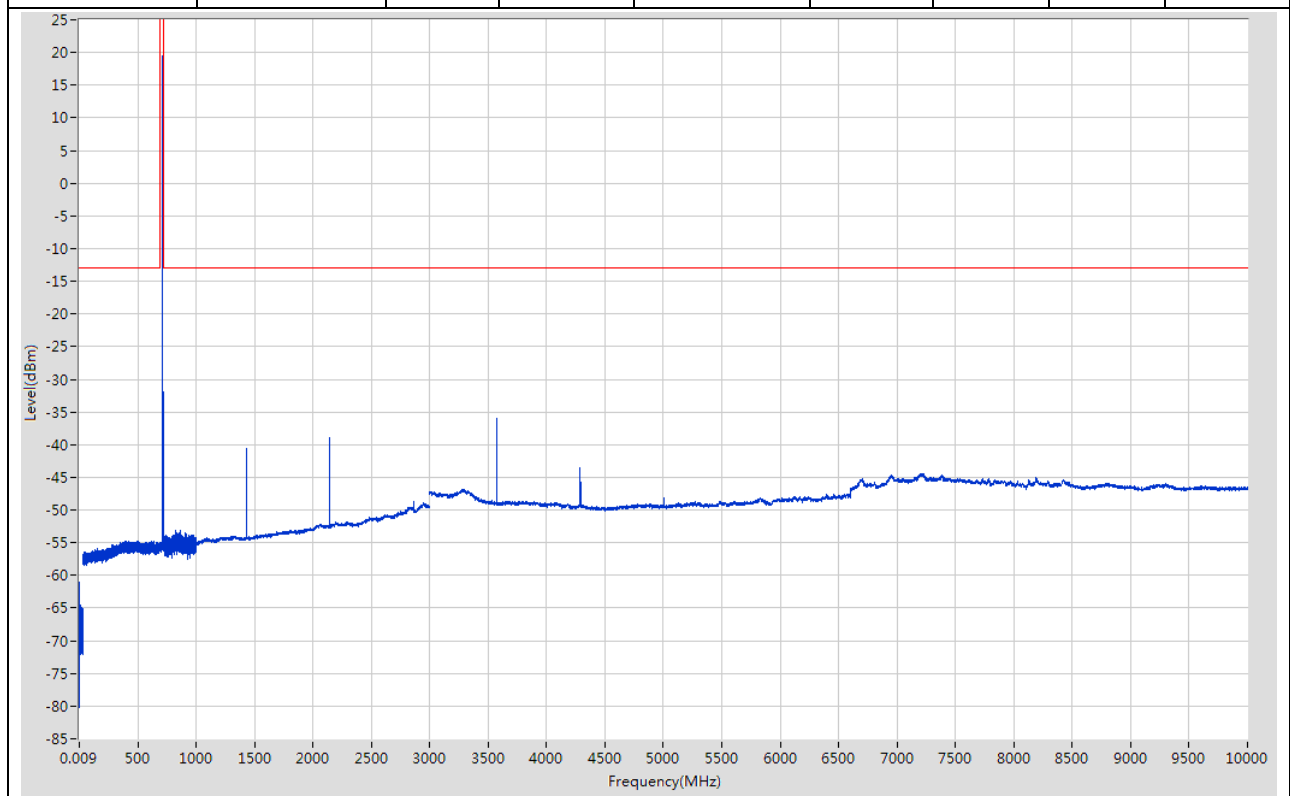
### 1.5. LTE Spurious Emissions(NTNV)(Subtest:5, Channel:23173, Bandwidth:1.4, Modulation:QPSK, RB Number: 1, RB Position:LOW)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.011	-62.25	-13	Pass	401
0.15	30	0.01	RMS	0.23	-61.91	-13	Pass	2985
30	689	0.1	RMS	483.269	-54.62	-13	Pass	6590
689	725	0.1	RMS	714.83	20.67	60	Pass	401
725	1000	0.1	RMS	856.148	-53.17	-13	Pass	2750
1000	3000	1	RMS	2144.572	-36.89	-13	Pass	2000
3000	10000	1	RMS	3574.082	-34.16	-13	Pass	7000



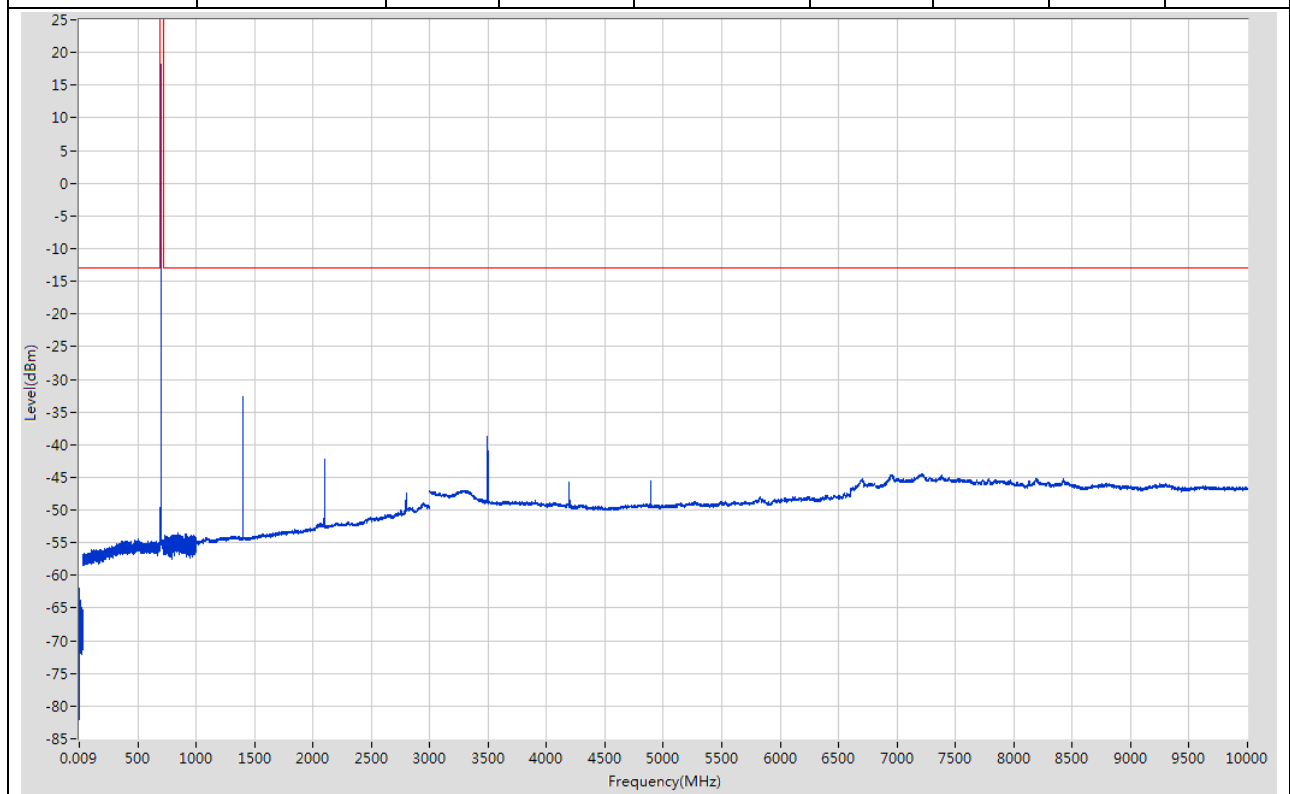
# 1.6. LTE Spurious Emissions(NTNV)(Subtest:6, Channel:23173, Bandwidth:1.4, Modulation:Q16, RB Number: 1, RB Position:LOW)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.01	-61.62	-13	Pass	401
0.15	30	0.01	RMS	0.24	-61.01	-13	Pass	2985
30	689	0.1	RMS	618.089	-54.78	-13	Pass	6590
689	725	0.1	RMS	714.83	19.48	60	Pass	401
725	1000	0.1	RMS	866.752	-53.09	-13	Pass	2750
1000	3000	1	RMS	2144.572	-38.98	-13	Pass	2000
3000	10000	1	RMS	3574.082	-35.96	-13	Pass	7000



### 1.7. LTE Spurious Emissions(NTNV)(Subtest:7, Channel:23025, Bandwidth:3, Modulation:QPSK, RB Number: 1, RB Position:LOW)

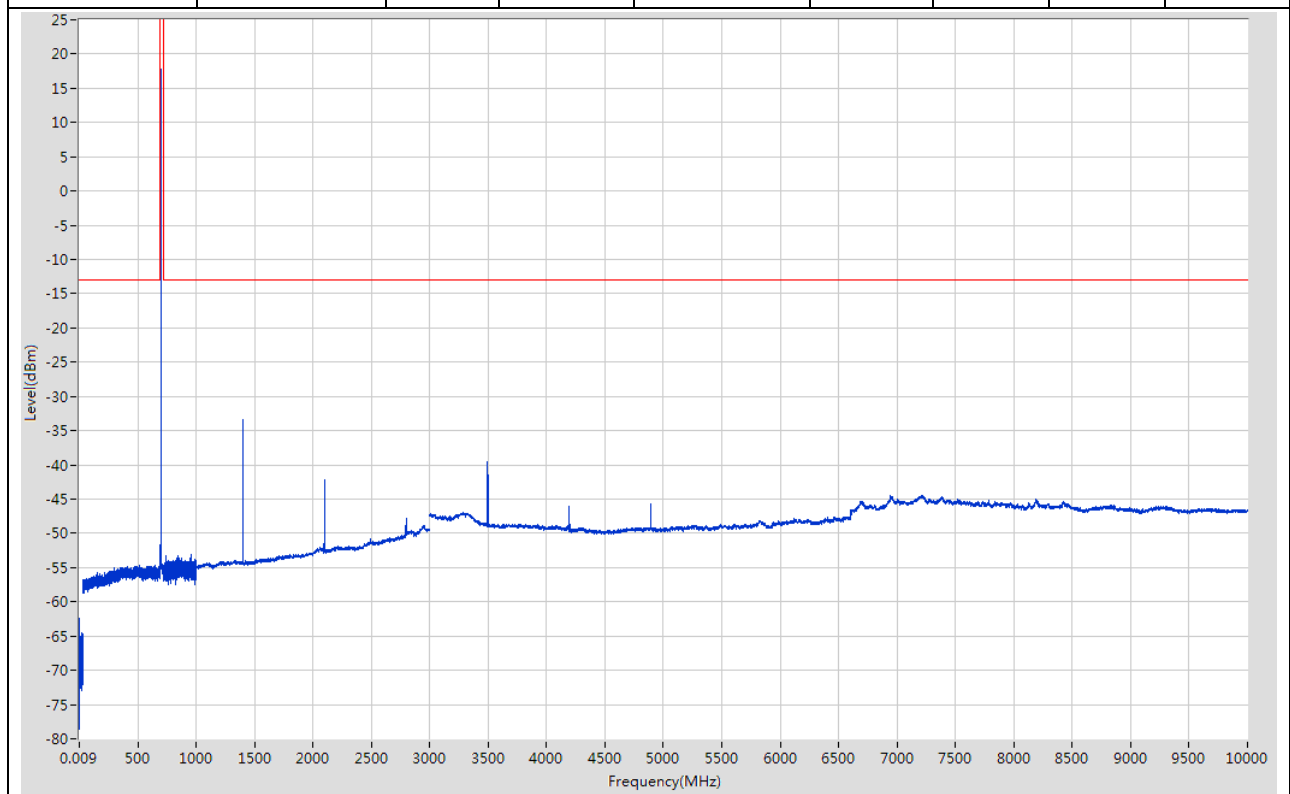
Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.013	-62.12	-13	Pass	401
0.15	30	0.01	RMS	0.17	-61.93	-13	Pass	2985
30	689	0.1	RMS	502.672	-54.35	-13	Pass	6590
689	725	0.1	RMS	699.26	18.25	60	Pass	401
725	1000	0.1	RMS	843.143	-53.57	-13	Pass	2750
1000	3000	1	RMS	1398.199	-32.73	-13	Pass	2000
3000	10000	1	RMS	3496.071	-38.67	-13	Pass	7000





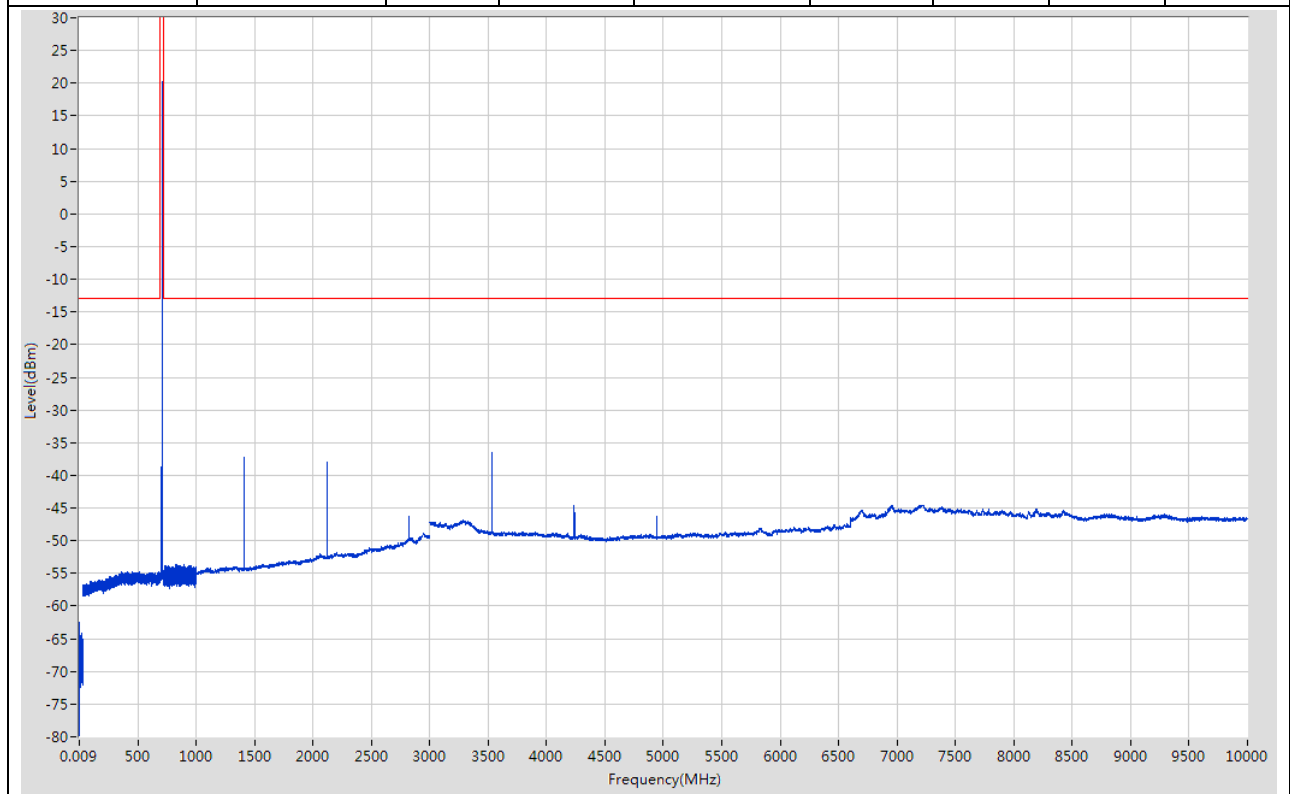
### 1.8. LTE Spurious Emissions(NTNV)(Subtest:8, Channel:23025, Bandwidth:3, Modulation:Q16, RB Number: 1, RB Position:LOW)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.012	-63.03	-13	Pass	401
0.15	30	0.01	RMS	0.25	-62.36	-13	Pass	2985
30	689	0.1	RMS	645.593	-54.7	-13	Pass	6590
689	725	0.1	RMS	699.26	17.78	60	Pass	401
725	1000	0.1	RMS	958.785	-53.05	-13	Pass	2750
1000	3000	1	RMS	1398.199	-33.43	-13	Pass	2000
3000	10000	1	RMS	3496.071	-39.51	-13	Pass	7000



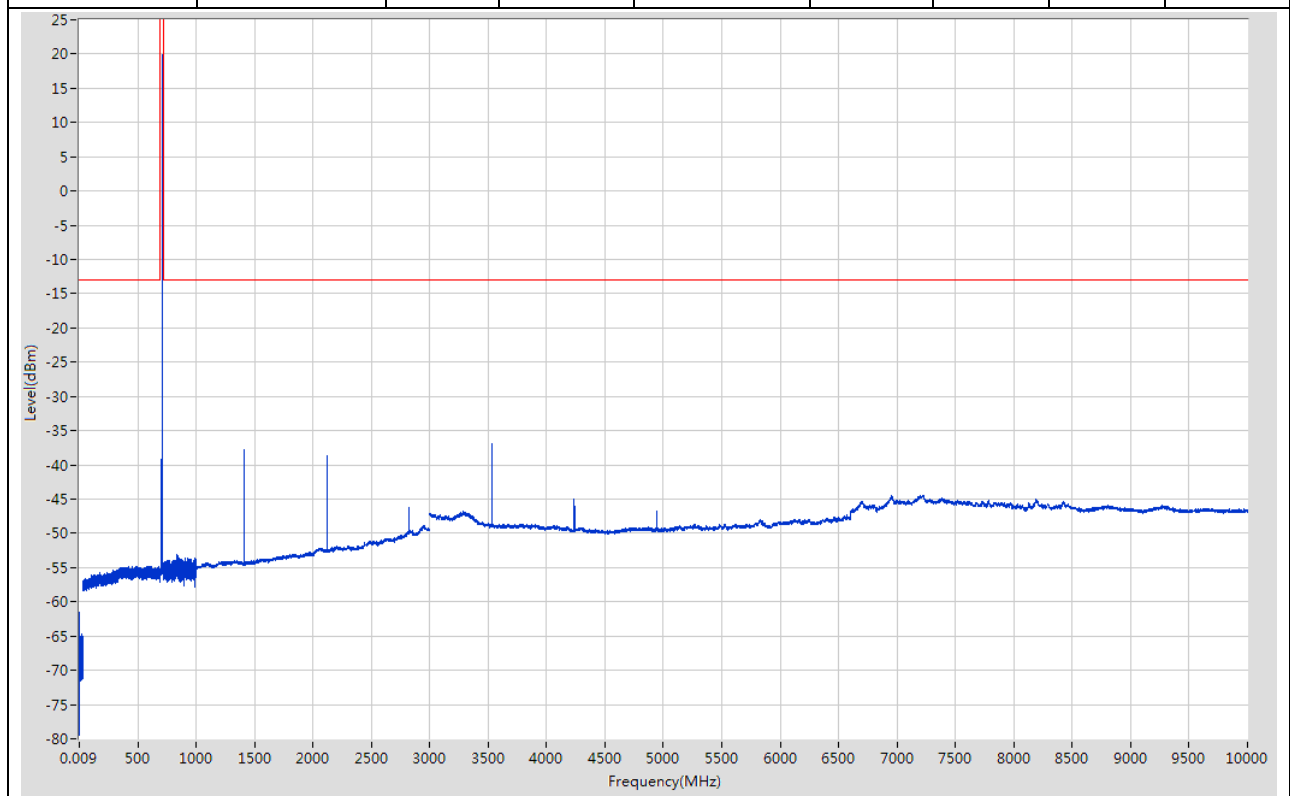
### 1.9. LTE Spurious Emissions(NTNV)(Subtest:9, Channel:23095, Bandwidth:3, Modulation:QPSK, RB Number: 1, RB Position:LOW)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.01	-62.81	-13	Pass	401
0.15	30	0.01	RMS	0.15	-62.53	-13	Pass	2985
30	689	0.1	RMS	681.099	-54.69	-13	Pass	6590
689	725	0.1	RMS	706.28	20.23	60	Pass	401
725	1000	0.1	RMS	836.741	-53.61	-13	Pass	2750
1000	3000	1	RMS	1412.206	-37.27	-13	Pass	2000
3000	10000	1	RMS	3531.076	-36.58	-13	Pass	7000



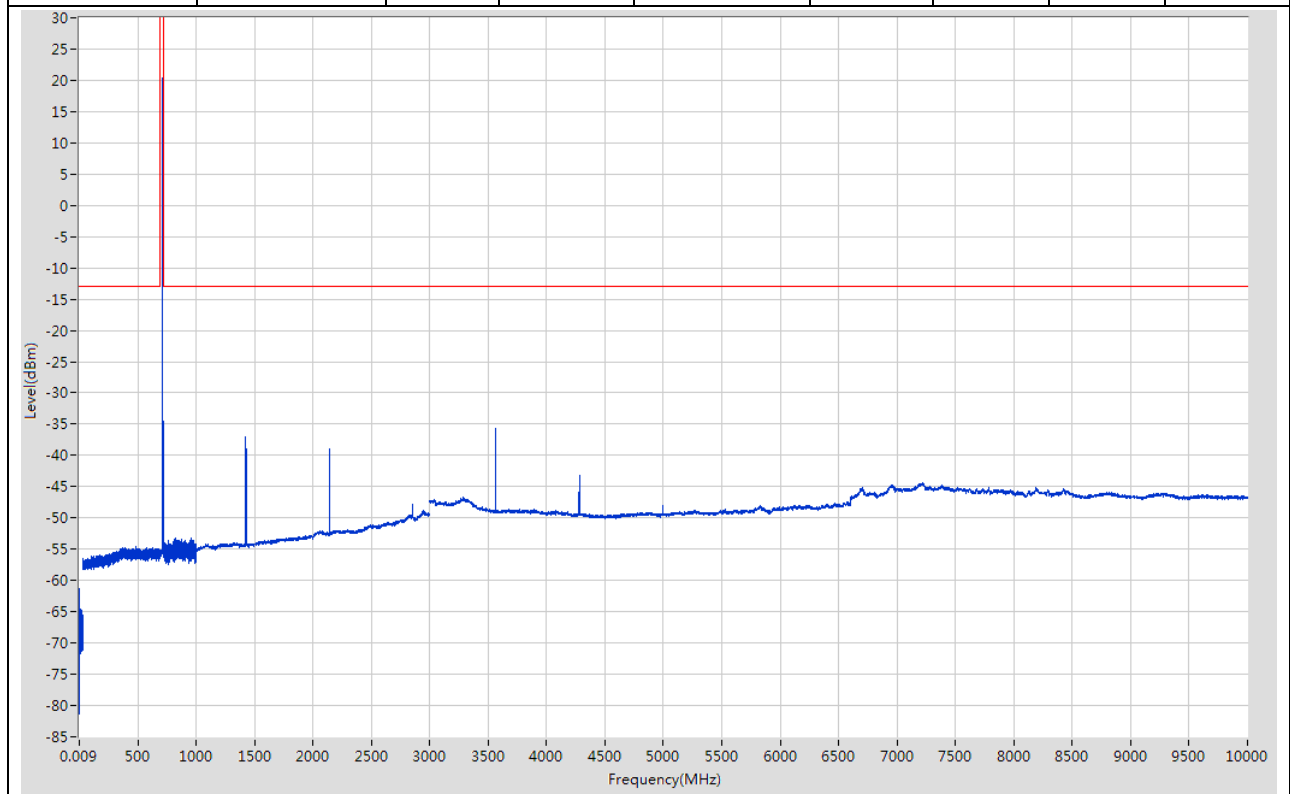
# 1.10. LTE Spurious Emissions(NTNV)(Subtest:10, Channel:23095, Bandwidth:3, Modulation:Q16, RB Number: 1, RB Position:LOW)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.01	-62.84	-13	Pass	401
0.15	30	0.01	RMS	0.15	-61.54	-13	Pass	2985
30	689	0.1	RMS	682.199	-54.76	-13	Pass	6590
689	725	0.1	RMS	706.28	19.88	60	Pass	401
725	1000	0.1	RMS	833.94	-53.05	-13	Pass	2750
1000	3000	1	RMS	1412.206	-37.77	-13	Pass	2000
3000	10000	1	RMS	3531.076	-36.83	-13	Pass	7000



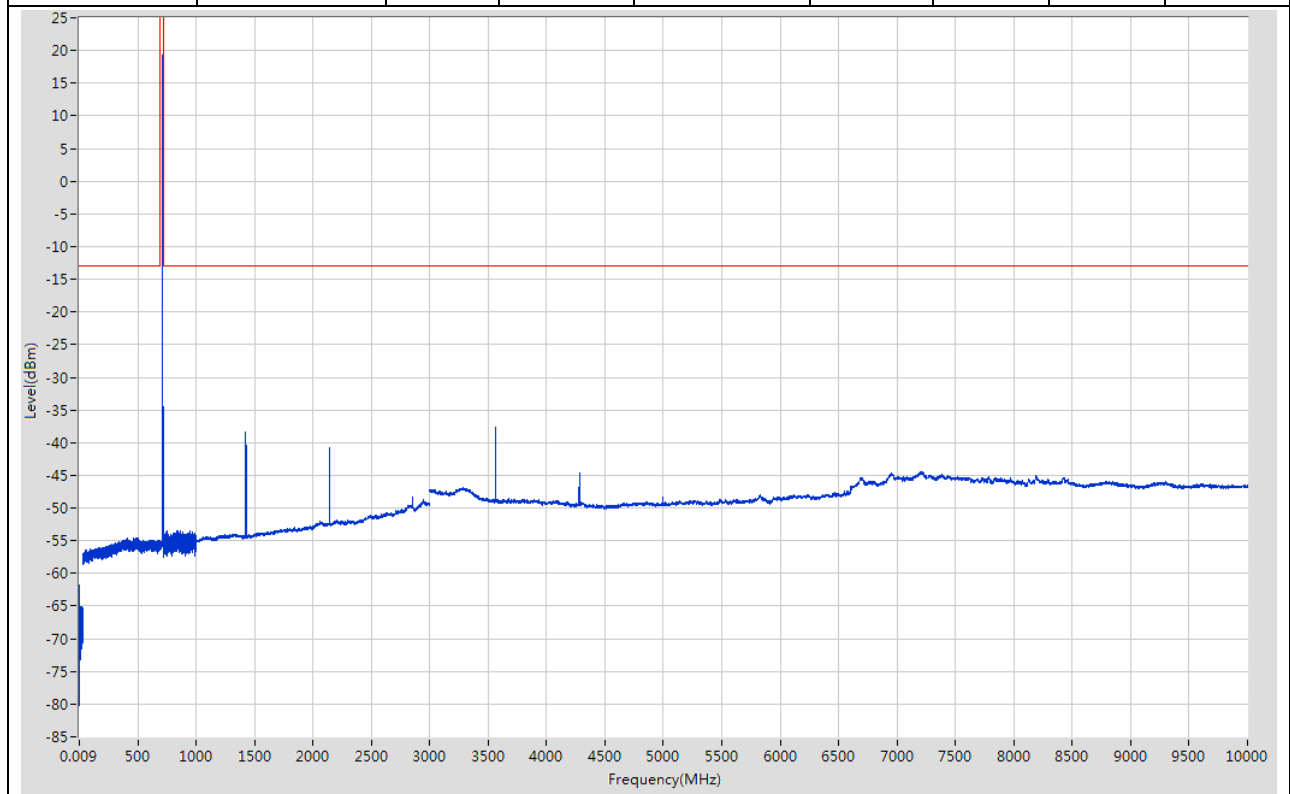
### 1.11. LTE Spurious Emissions(NTNV)(Subtest:11, Channel:23165, Bandwidth:3, Modulation:QPSK, RB Number: 1, RB Position:LOW)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.012	-62.73	-13	Pass	401
0.15	30	0.01	RMS	0.24	-61.37	-13	Pass	2985
30	689	0.1	RMS	485.069	-54.52	-13	Pass	6590
689	725	0.1	RMS	713.21	20.36	60	Pass	401
725	1000	0.1	RMS	826.037	-53.22	-13	Pass	2750
1000	3000	1	RMS	1426.213	-37	-13	Pass	2000
3000	10000	1	RMS	3566.081	-35.61	-13	Pass	7000



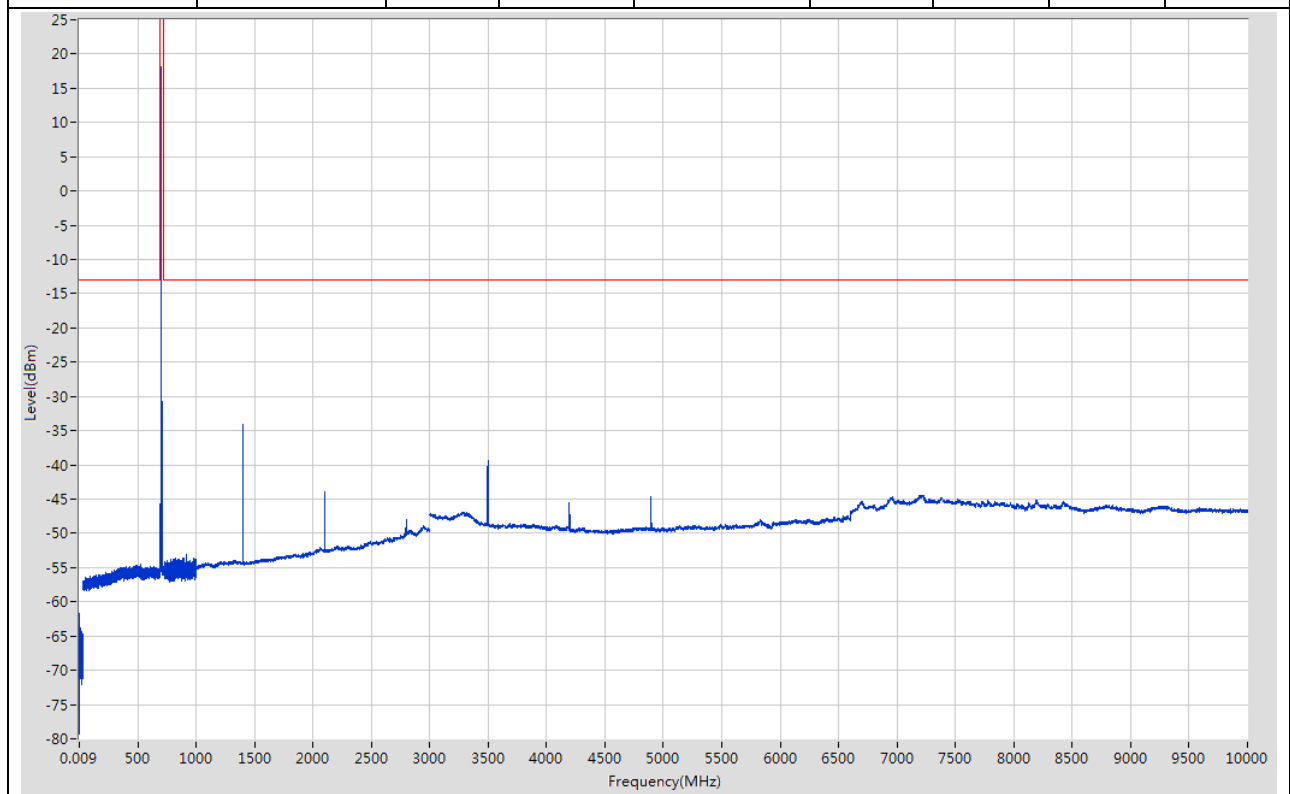
# 1.12. LTE Spurious Emissions(NTNV)(Subtest:12, Channel:23165, Bandwidth:3, Modulation:Q16, RB Number: 1, RB Position:LOW)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.014	-61.72	-13	Pass	401
0.15	30	0.01	RMS	0.23	-61.98	-13	Pass	2985
30	689	0.1	RMS	408.457	-54.57	-13	Pass	6590
689	725	0.1	RMS	713.21	19.21	60	Pass	401
725	1000	0.1	RMS	834.34	-53.45	-13	Pass	2750
1000	3000	1	RMS	1426.213	-38.39	-13	Pass	2000
3000	10000	1	RMS	3566.081	-37.72	-13	Pass	7000



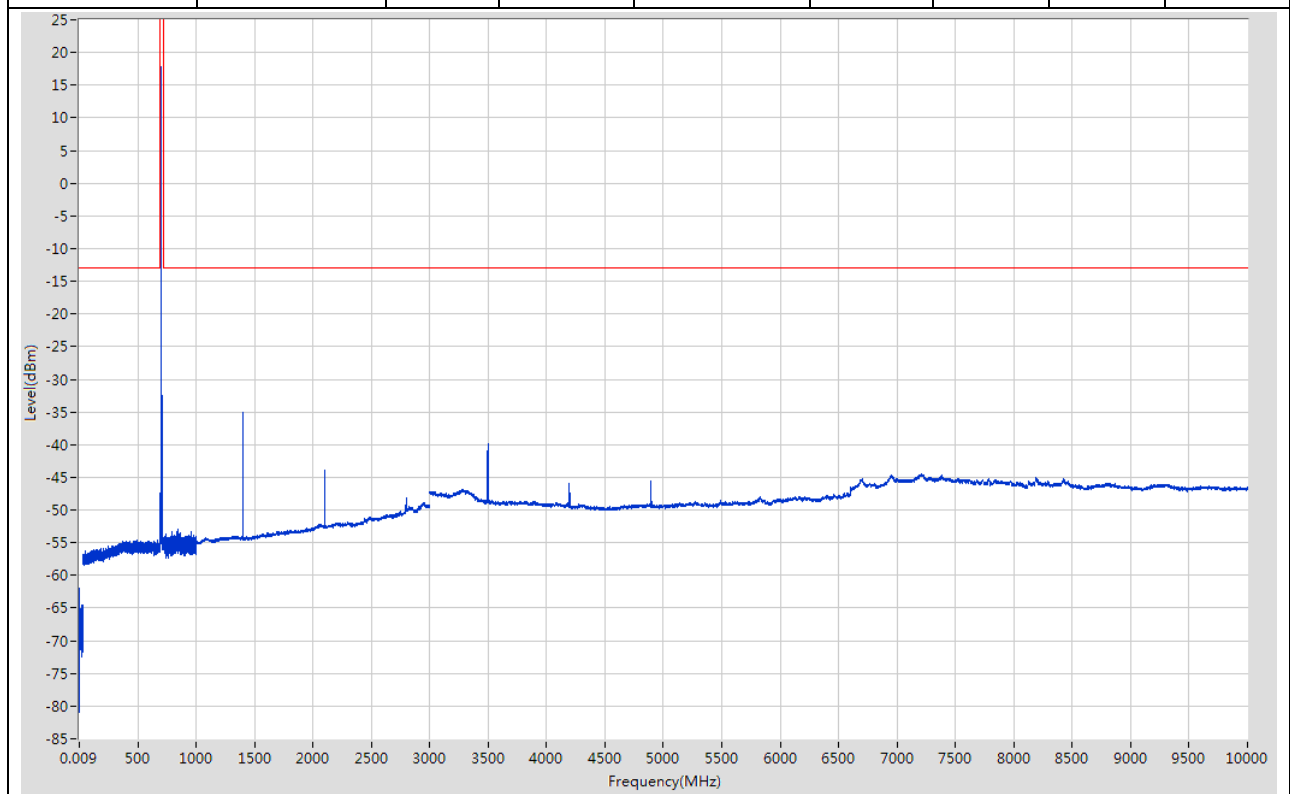
### 1.13. LTE Spurious Emissions(NTNV)(Subtest:13, Channel:23035, Bandwidth:5, Modulation:QPSK, RB Number: 1, RB Position:LOW)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.009	-62.05	-13	Pass	401
0.15	30	0.01	RMS	0.15	-61.74	-13	Pass	2985
30	689	0.1	RMS	521.475	-54.43	-13	Pass	6590
689	725	0.1	RMS	699.35	18.11	60	Pass	401
725	1000	0.1	RMS	913.469	-53.09	-13	Pass	2750
1000	3000	1	RMS	1398.199	-34.18	-13	Pass	2000
3000	10000	1	RMS	3497.071	-39.44	-13	Pass	7000



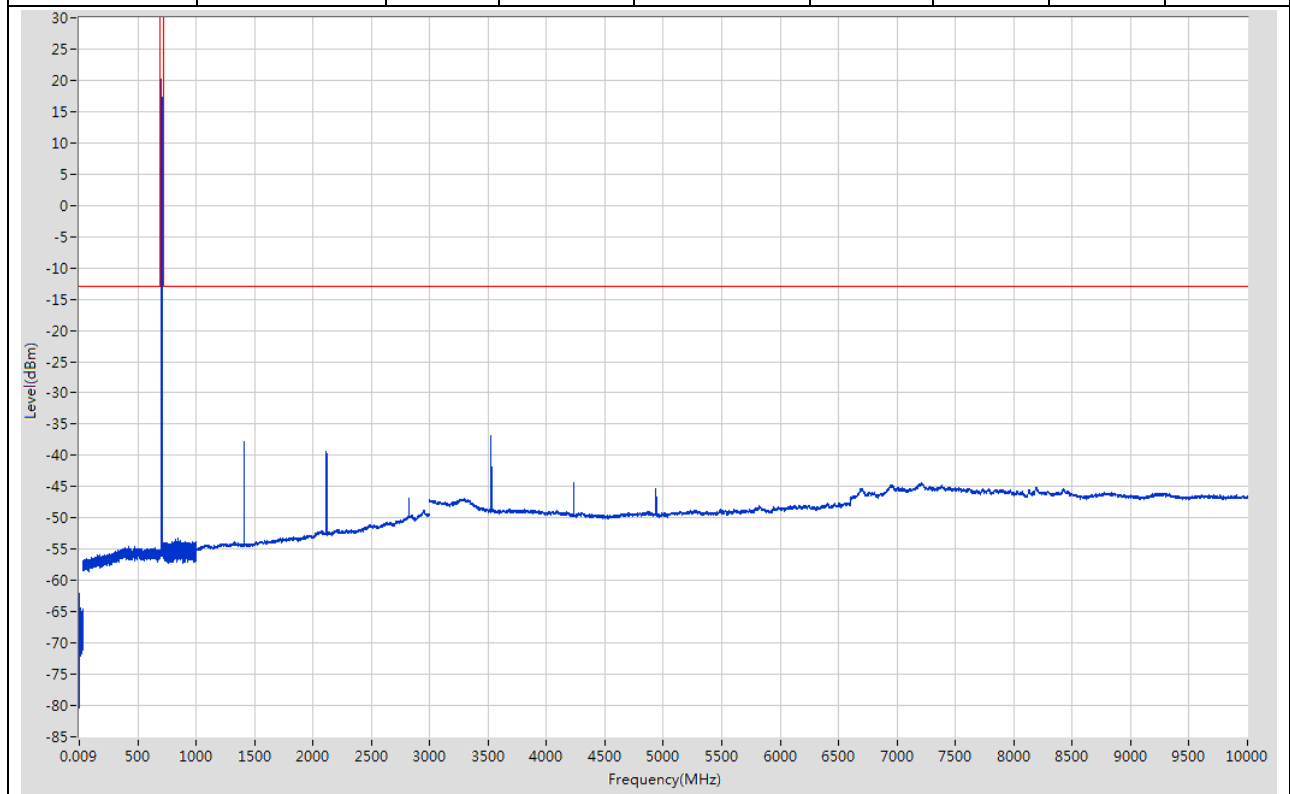
# 1.14. LTE Spurious Emissions(NTNV)(Subtest:14, Channel:23035, Bandwidth:5, Modulation:Q16, RB Number: 1, RB Position:LOW)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.01	-63.45	-13	Pass	401
0.15	30	0.01	RMS	0.16	-62	-13	Pass	2985
30	689	0.1	RMS	489.47	-54.54	-13	Pass	6590
689	725	0.1	RMS	699.35	17.85	60	Pass	401
725	1000	0.1	RMS	846.244	-53.03	-13	Pass	2750
1000	3000	1	RMS	1398.199	-34.98	-13	Pass	2000
3000	10000	1	RMS	3497.071	-39.8	-13	Pass	7000



# 1.15. LTE Spurious Emissions(NTNV)(Subtest:15, Channel:23095, Bandwidth:5, Modulation:QPSK, RB Number: 1, RB Position:LOW)

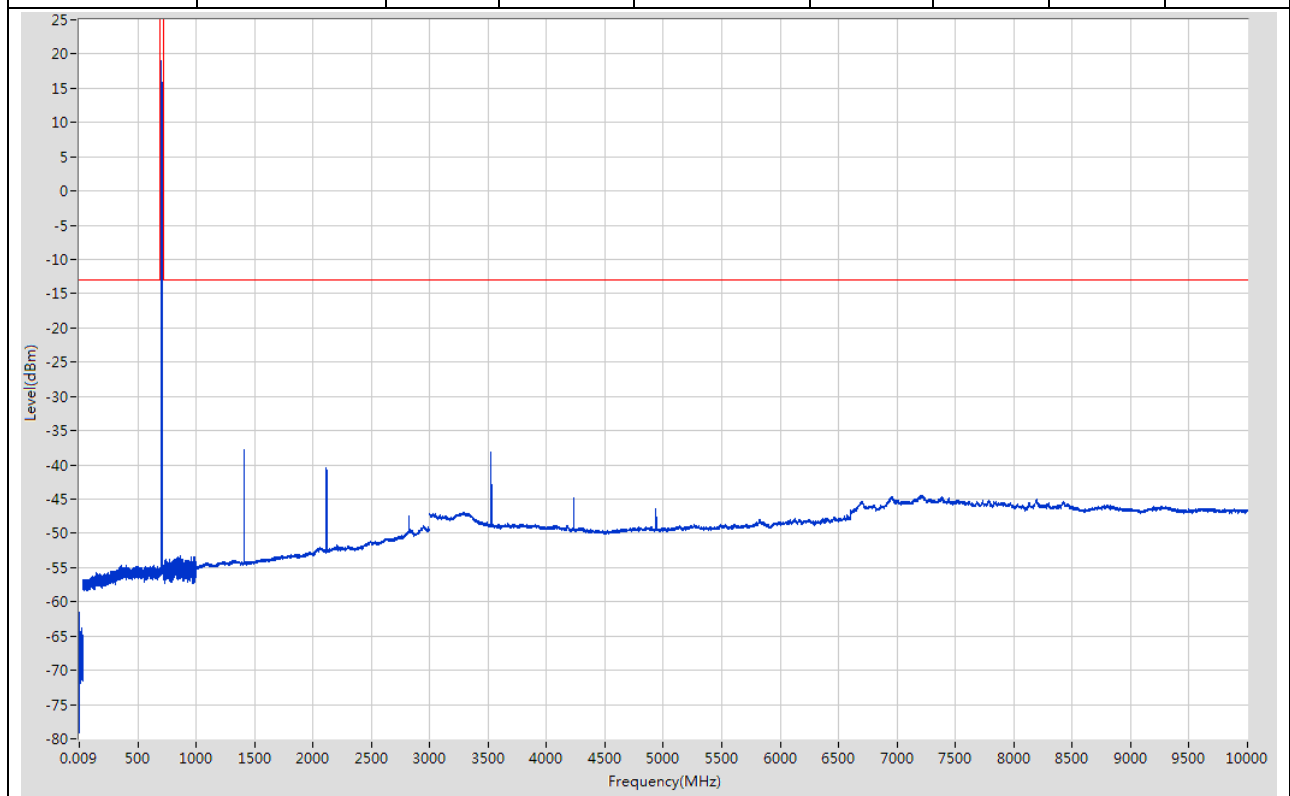
Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.009	-63.37	-13	Pass	401
0.15	30	0.01	RMS	0.23	-62.15	-13	Pass	2985
30	689	0.1	RMS	418.159	-54.65	-13	Pass	6590
689	725	0.1	RMS	705.38	20.21	60	Pass	401
725	1000	0.1	RMS	842.343	-53.13	-13	Pass	2750
1000	3000	1	RMS	1410.205	-37.73	-13	Pass	2000
3000	10000	1	RMS	3527.075	-36.81	-13	Pass	7000





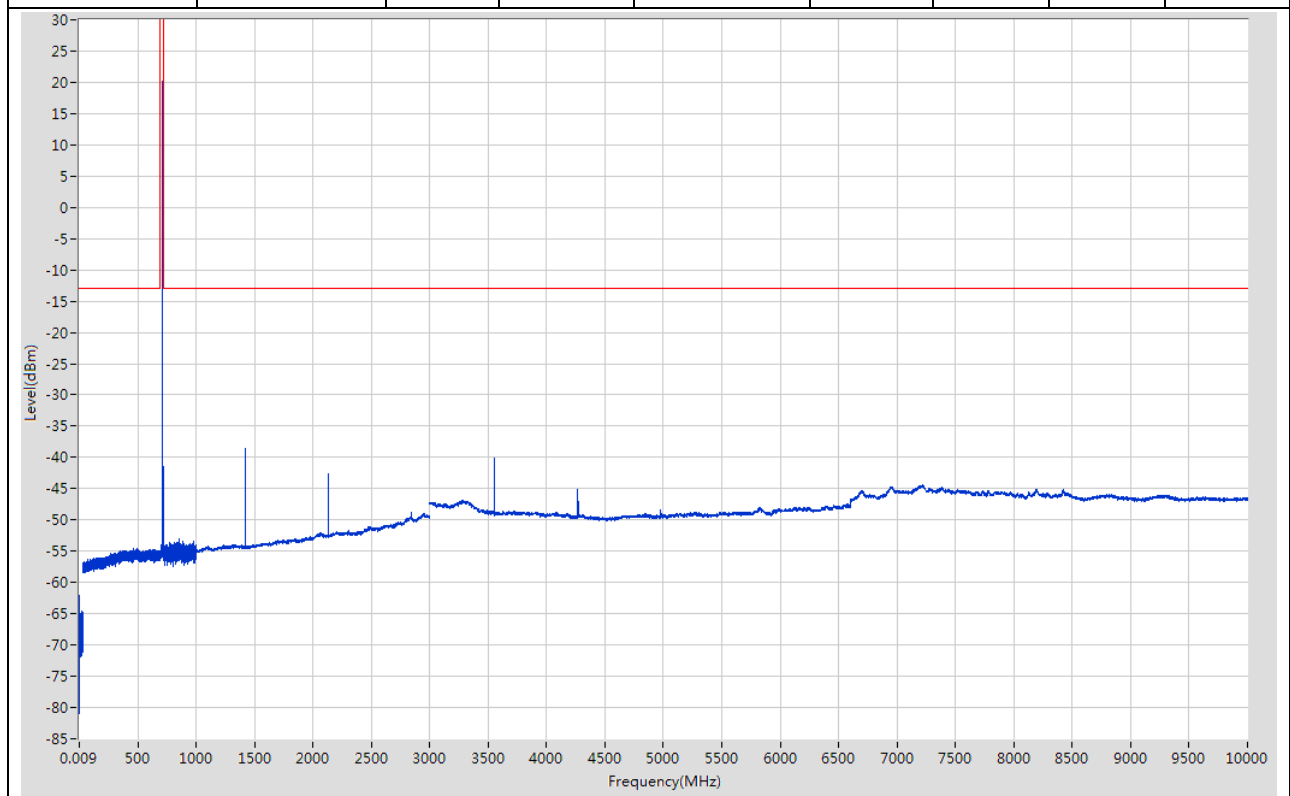
# 1.16. LTE Spurious Emissions(NTNV)(Subtest:16, Channel:23095, Bandwidth:5, Modulation:Q16, RB Number: 1, RB Position:LOW)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.009	-63.03	-13	Pass	401
0.15	30	0.01	RMS	0.16	-61.59	-13	Pass	2985
30	689	0.1	RMS	398.956	-54.59	-13	Pass	6590
689	725	0.1	RMS	705.38	19.03	60	Pass	401
725	1000	0.1	RMS	863.951	-53.25	-13	Pass	2750
1000	3000	1	RMS	1410.205	-37.87	-13	Pass	2000
3000	10000	1	RMS	3527.075	-38.16	-13	Pass	7000



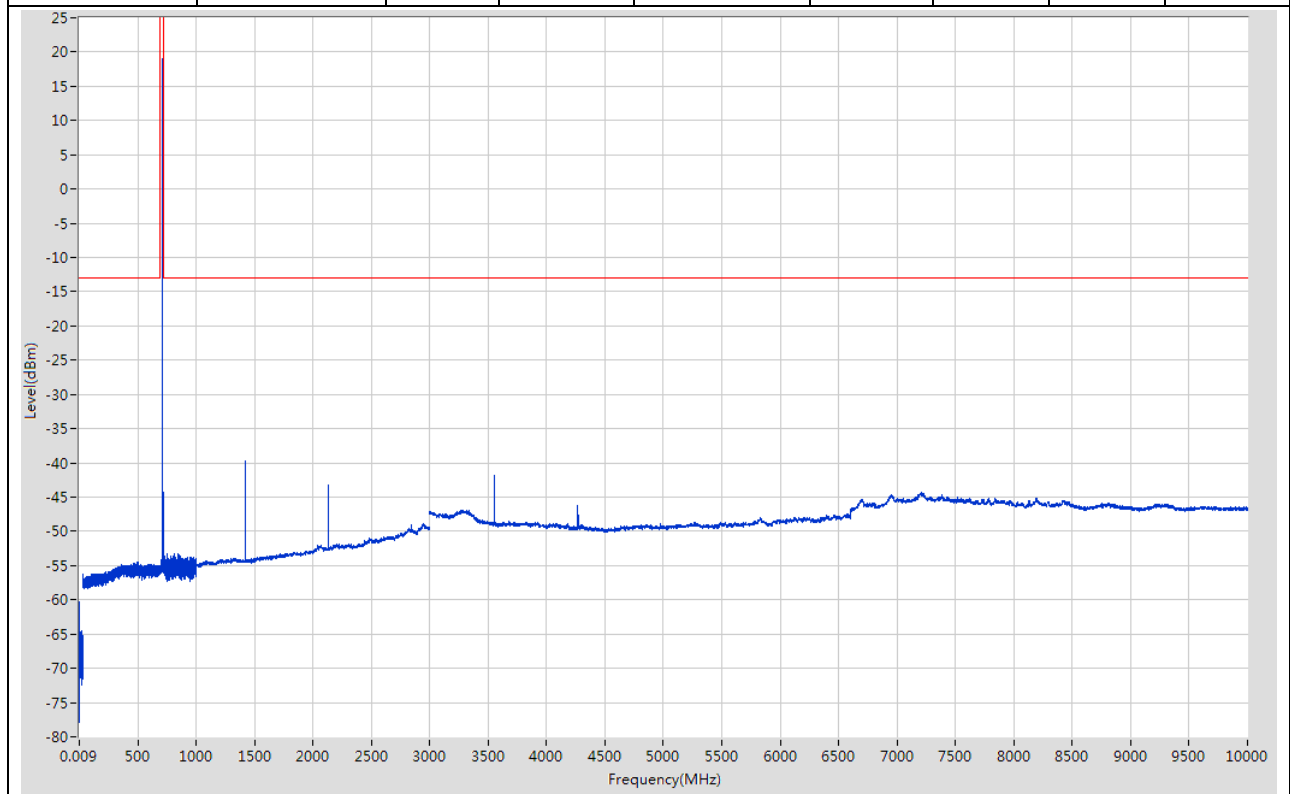
# 1.17. LTE Spurious Emissions(NTNV)(Subtest:17, Channel:23155, Bandwidth:5, Modulation:QPSK, RB Number: 1, RB Position:LOW)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.013	-62.06	-13	Pass	401
0.15	30	0.01	RMS	0.24	-62.03	-13	Pass	2985
30	689	0.1	RMS	468.467	-54.6	-13	Pass	6590
689	725	0.1	RMS	711.32	20.26	60	Pass	401
725	1000	0.1	RMS	852.646	-53.05	-13	Pass	2750
1000	3000	1	RMS	1422.211	-38.58	-13	Pass	2000
3000	10000	1	RMS	3557.08	-40.06	-13	Pass	7000



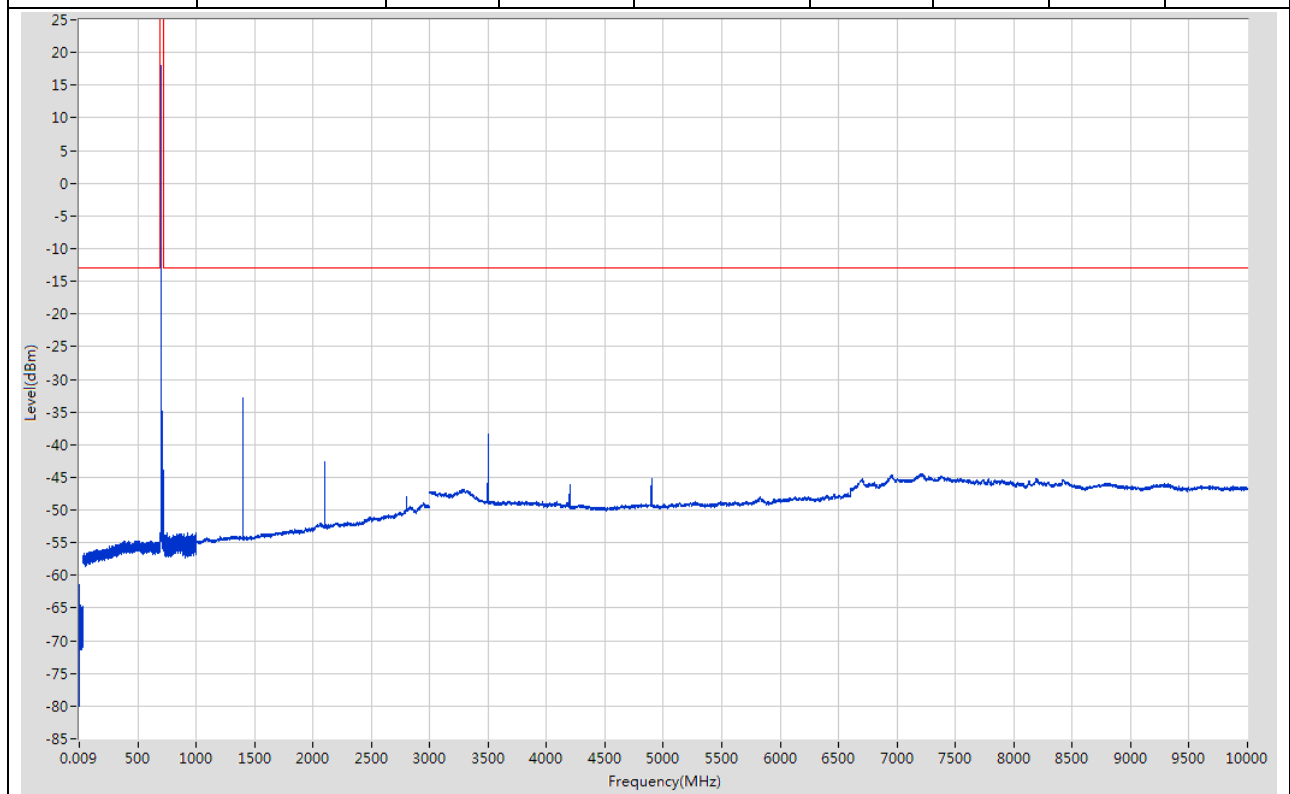
# 1.18. LTE Spurious Emissions(NTNV)(Subtest:18, Channel:23155, Bandwidth:5, Modulation:Q16, RB Number: 1, RB Position:LOW)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.009	-60.3	-13	Pass	401
0.15	30	0.01	RMS	0.21	-62	-13	Pass	2985
30	689	0.1	RMS	493.07	-54.49	-13	Pass	6590
689	725	0.1	RMS	711.32	19	60	Pass	401
725	1000	0.1	RMS	810.431	-53.25	-13	Pass	2750
1000	3000	1	RMS	1422.211	-39.64	-13	Pass	2000
3000	10000	1	RMS	3557.08	-41.78	-13	Pass	7000



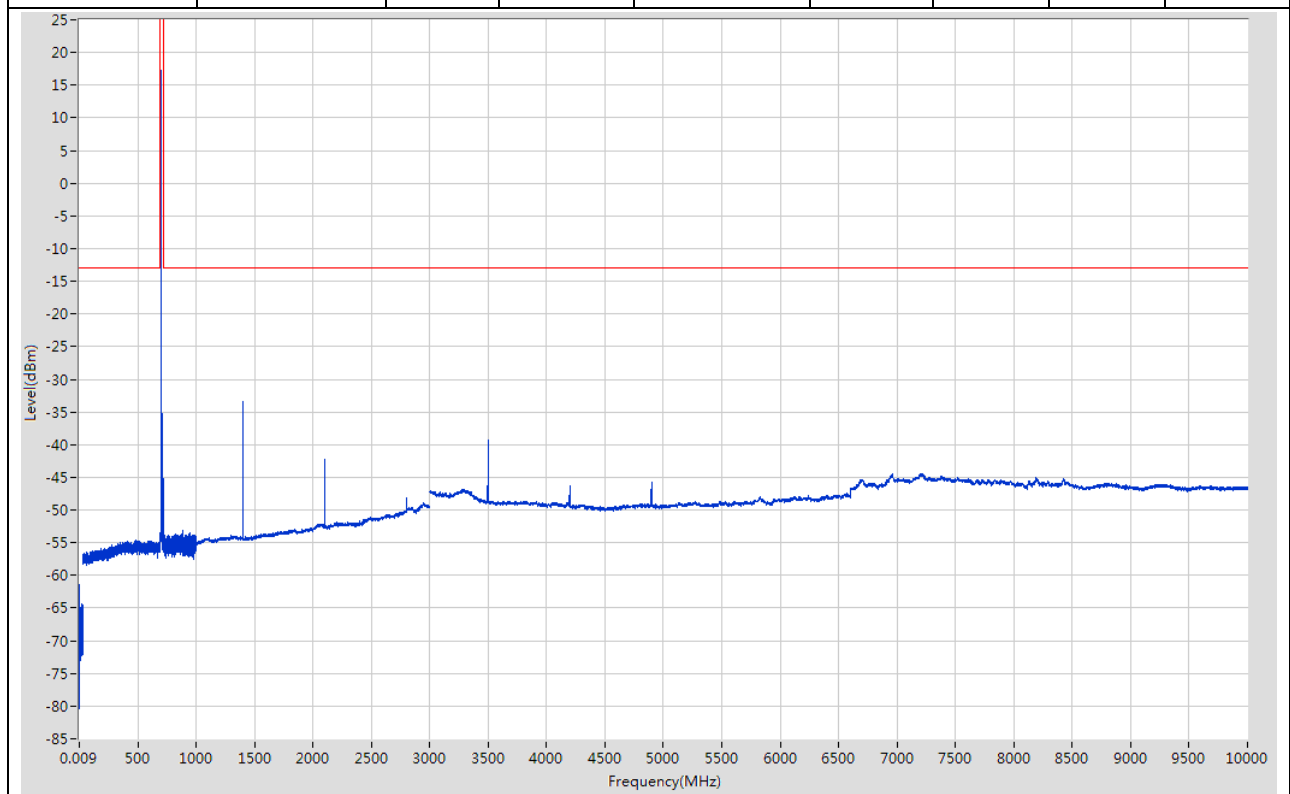
### 1.19. LTE Spurious Emissions(NTNV)(Subtest:19, Channel:23060, Bandwidth:10, Modulation:QPSK, RB Number: 1, RB Position:LOW)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.01	-62.32	-13	Pass	401
0.15	30	0.01	RMS	0.26	-61.36	-13	Pass	2985
30	689	0.1	RMS	471.167	-54.72	-13	Pass	6590
689	725	0.1	RMS	699.62	17.91	60	Pass	401
725	1000	0.1	RMS	749.909	-53.56	-13	Pass	2750
1000	3000	1	RMS	1399.2	-32.78	-13	Pass	2000
3000	10000	1	RMS	3498.071	-38.45	-13	Pass	7000



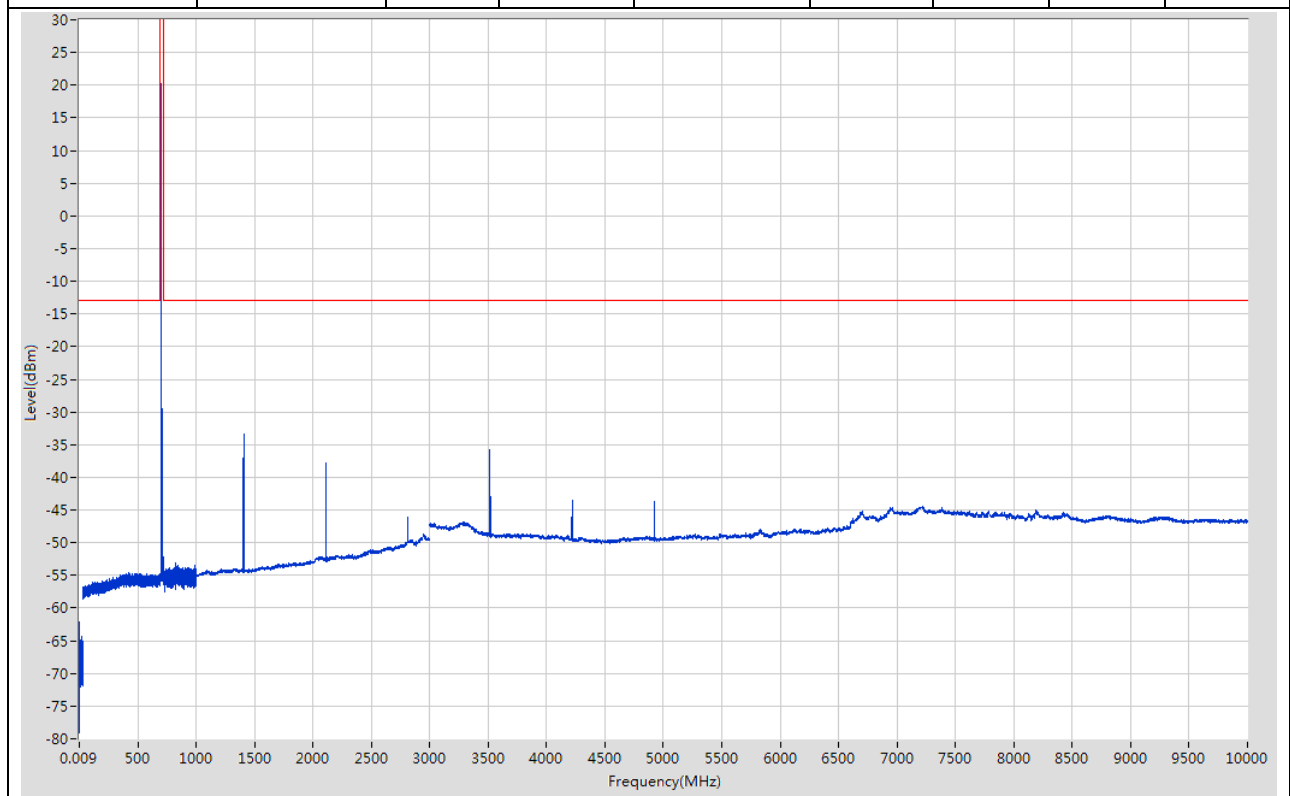
## 1.20. LTE Spurious Emissions(NTNV)(Subtest:20, Channel:23060, Bandwidth:10, Modulation:Q16, RB Number: 1, RB Position:LOW)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.01	-62.81	-13	Pass	401
0.15	30	0.01	RMS	0.43	-61.33	-13	Pass	2985
30	689	0.1	RMS	480.568	-54.62	-13	Pass	6590
689	725	0.1	RMS	699.62	17.27	60	Pass	401
725	1000	0.1	RMS	888.059	-53.04	-13	Pass	2750
1000	3000	1	RMS	1399.2	-33.48	-13	Pass	2000
3000	10000	1	RMS	3498.071	-39.22	-13	Pass	7000



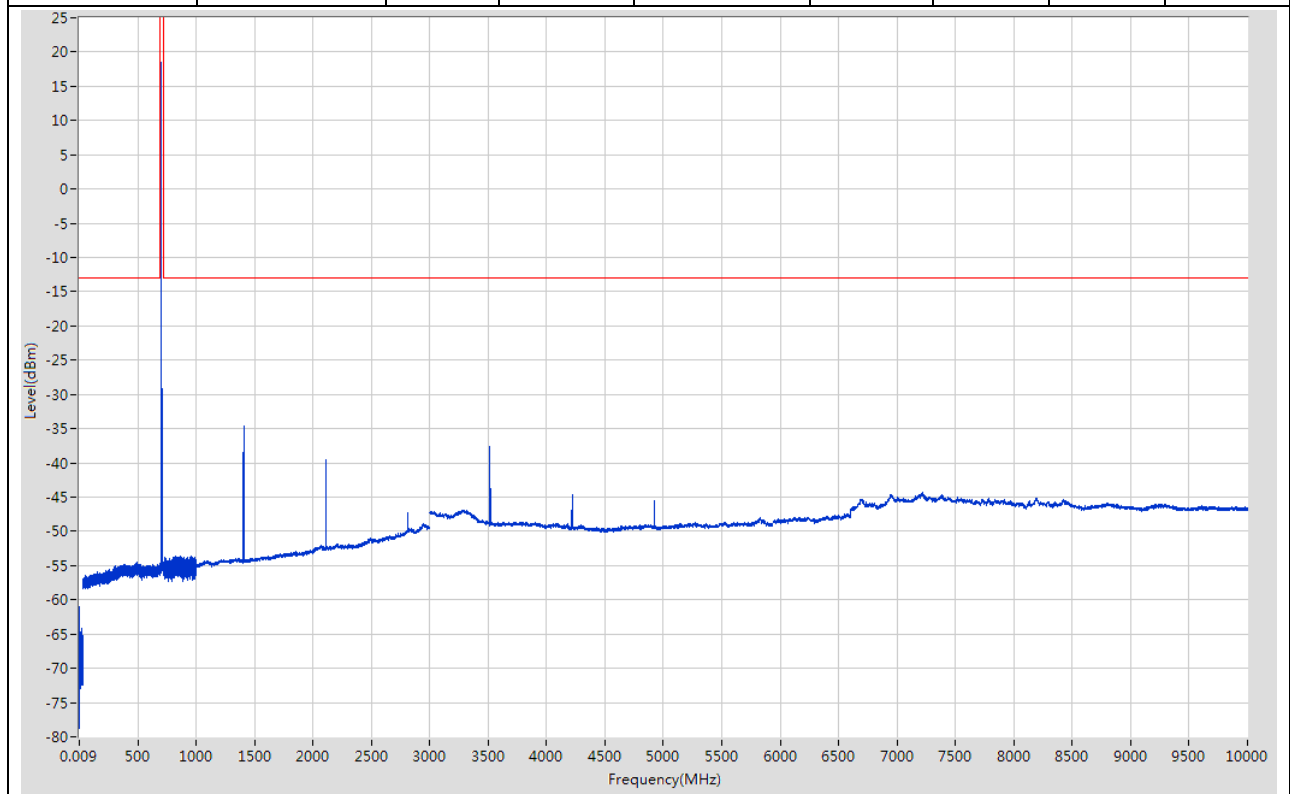
# 1.21. LTE Spurious Emissions(NTNV)(Subtest:21, Channel:23095, Bandwidth:10, Modulation:QPSK, RB Number: 1, RB Position:LOW)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.011	-63.65	-13	Pass	401
0.15	30	0.01	RMS	0.16	-62.1	-13	Pass	2985
30	689	0.1	RMS	419.659	-54.57	-13	Pass	6590
689	725	0.1	RMS	703.13	20.16	60	Pass	401
725	1000	0.1	RMS	827.437	-53.18	-13	Pass	2750
1000	3000	1	RMS	1406.203	-33.34	-13	Pass	2000
3000	10000	1	RMS	3515.074	-35.79	-13	Pass	7000



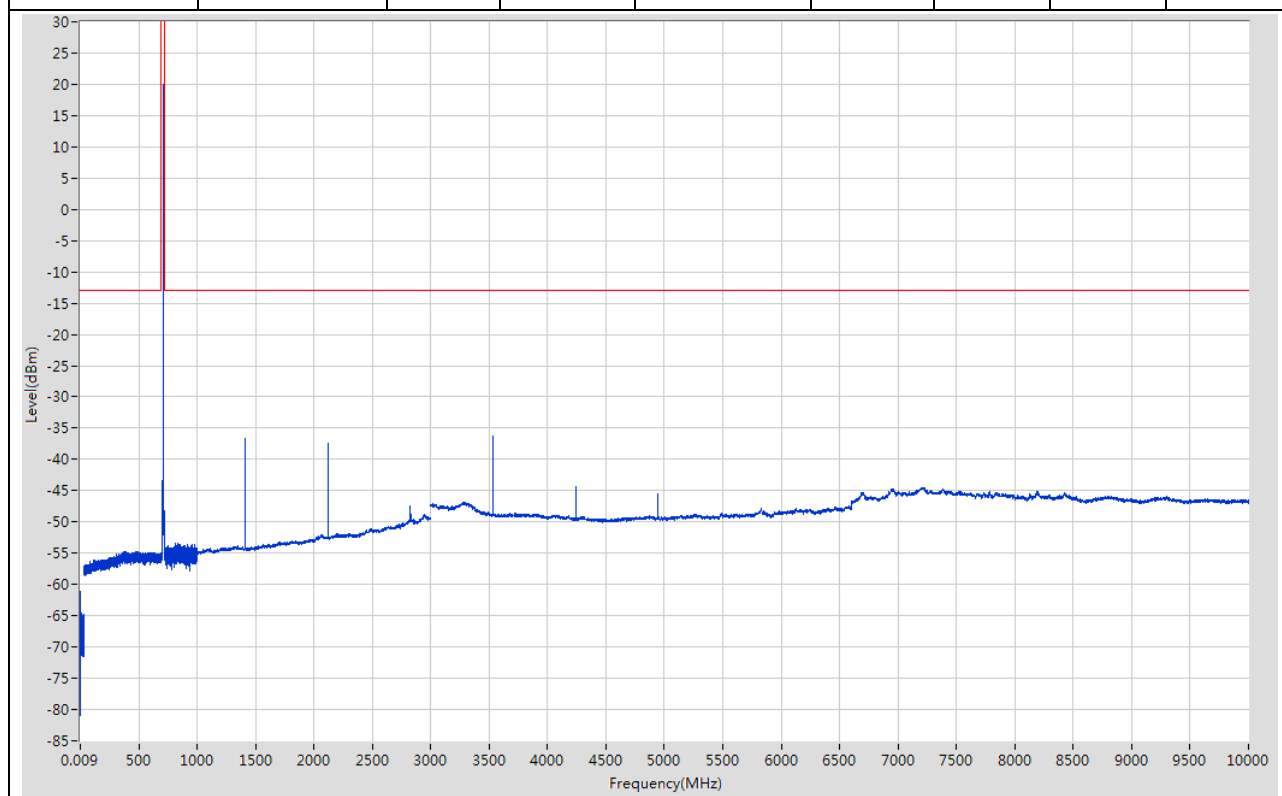
## 1.22. LTE Spurious Emissions(NTNV)(Subtest:22, Channel:23095, Bandwidth:10, Modulation:Q16, RB Number: 1, RB Position:LOW)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.012	-63.05	-13	Pass	401
0.15	30	0.01	RMS	0.21	-60.94	-13	Pass	2985
30	689	0.1	RMS	490.47	-54.43	-13	Pass	6590
689	725	0.1	RMS	703.13	18.51	60	Pass	401
725	1000	0.1	RMS	820.935	-53.59	-13	Pass	2750
1000	3000	1	RMS	1406.203	-34.57	-13	Pass	2000
3000	10000	1	RMS	3515.074	-37.64	-13	Pass	7000



### 1.23. LTE Spurious Emissions(NTNV)(Subtest:23, Channel:23130, Bandwidth:10, Modulation:QPSK, RB Number: 1, RB Position:LOW)

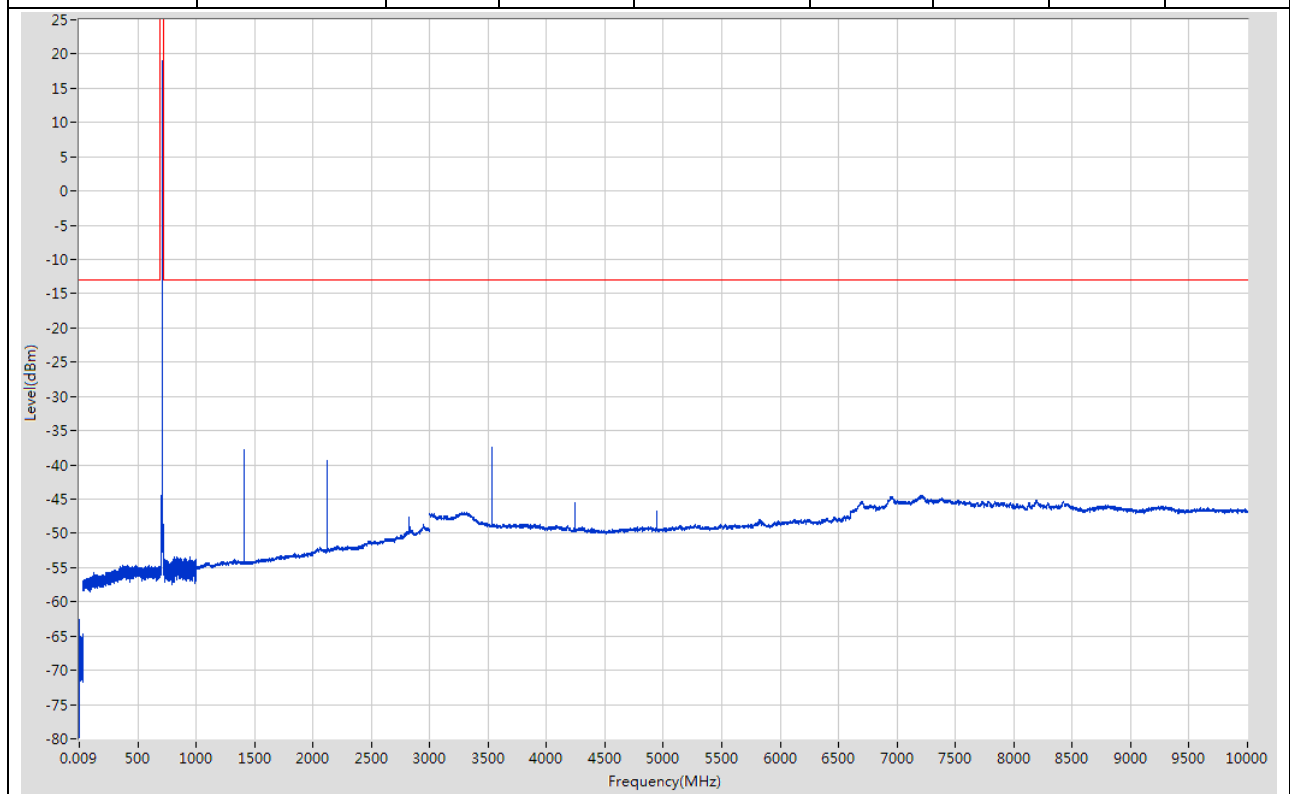
Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.009	-62.4	-13	Pass	401
0.15	30	0.01	RMS	0.18	-61.15	-13	Pass	2985
30	689	0.1	RMS	492.17	-54.7	-13	Pass	6590
689	725	0.1	RMS	706.55	20.08	60	Pass	401
725	1000	0.1	RMS	817.434	-53.4	-13	Pass	2750
1000	3000	1	RMS	1413.207	-36.56	-13	Pass	2000
3000	10000	1	RMS	3533.076	-36.25	-13	Pass	7000





# 1.24. LTE Spurious Emissions(NTNV)(Subtest:24, Channel:23130, Bandwidth:10, Modulation:Q16, RB Number: 1, RB Position:LOW)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.01	-63.87	-13	Pass	401
0.15	30	0.01	RMS	0.27	-62.65	-13	Pass	2985
30	689	0.1	RMS	488.27	-54.65	-13	Pass	6590
689	725	0.1	RMS	706.55	18.99	60	Pass	401
725	1000	0.1	RMS	834.94	-53.44	-13	Pass	2750
1000	3000	1	RMS	1413.207	-37.74	-13	Pass	2000
3000	10000	1	RMS	3533.076	-37.52	-13	Pass	7000



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END