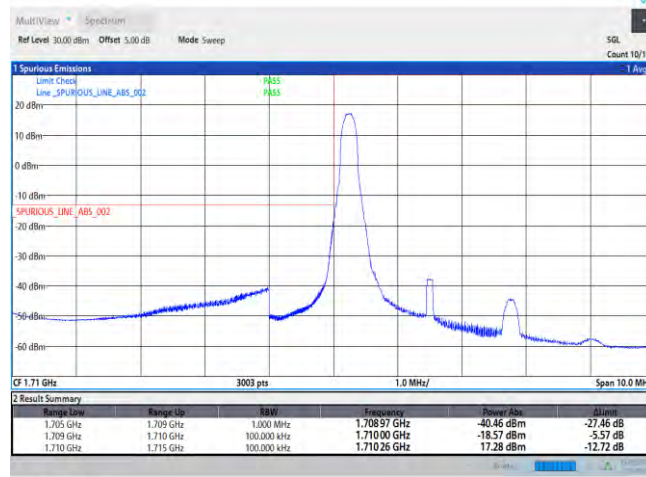
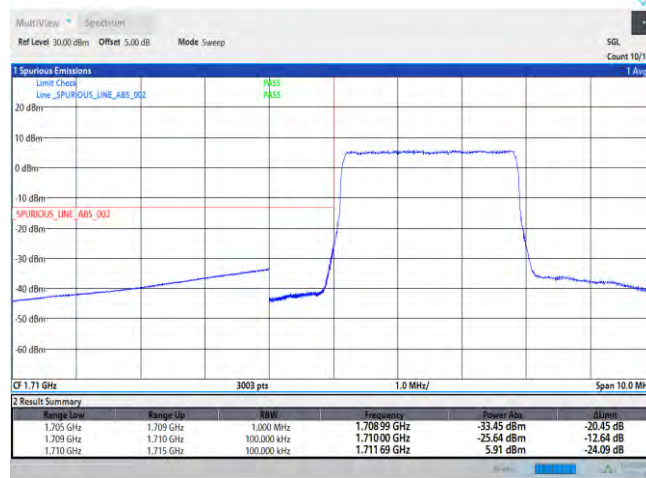


Band4-3MHz-256QAM-19965-1RB#0



13:49:52 15.02.2022

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13:51:48 15.02.2022

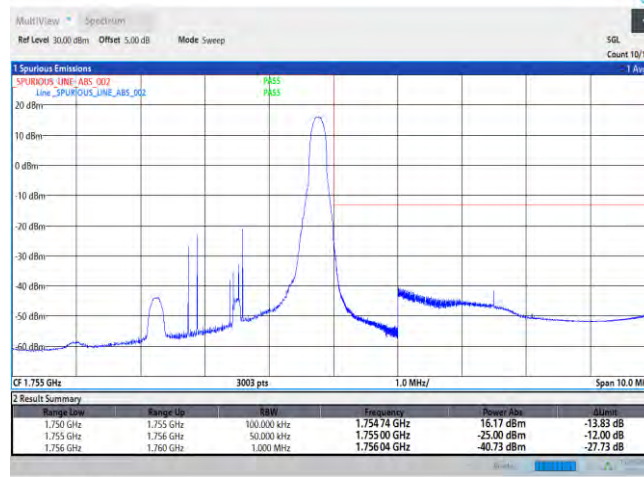


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Band4-3MHz-256QAM-20385-1RB#14



13:56:30 15.02.2022

Band4-3MHz-256QAM-20385-15RB#0

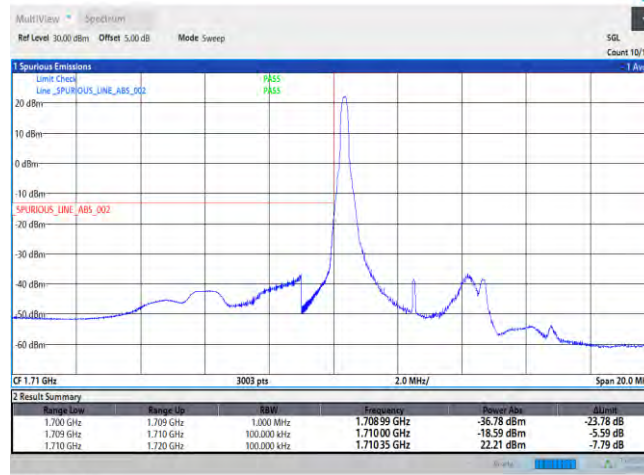


13:58:27 15.02.2022



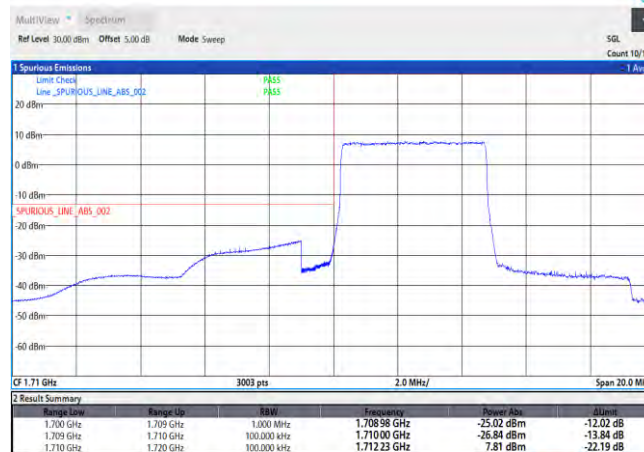
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Band4-5MHz-QPSK-19975-1RB#0



14:00:55 15.02.2022

Band4-5MHz-QPSK-19975-25RB#0



14:03:08 15.02.2022



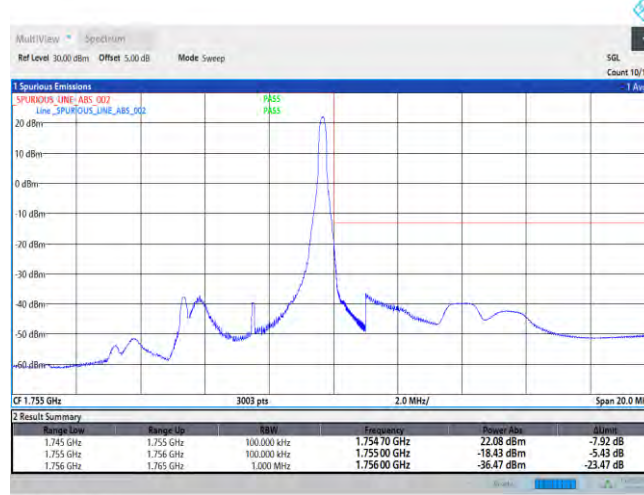
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Band4-5MHz-QPSK-20375-1RB#24



14:10:54 15.02.2022

Band4-5MHz-QPSK-20375-25RB#0



14:13:09 15.02.2022



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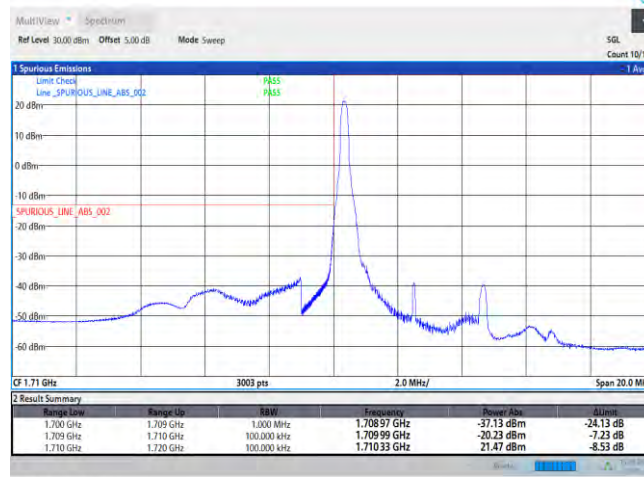
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Band4-5MHz-16QAM-19975-1RB#0



14:01:30 15.02.2022

Band4-5MHz-16QAM-19975-25RB#0



14:03:37 15.02.2022

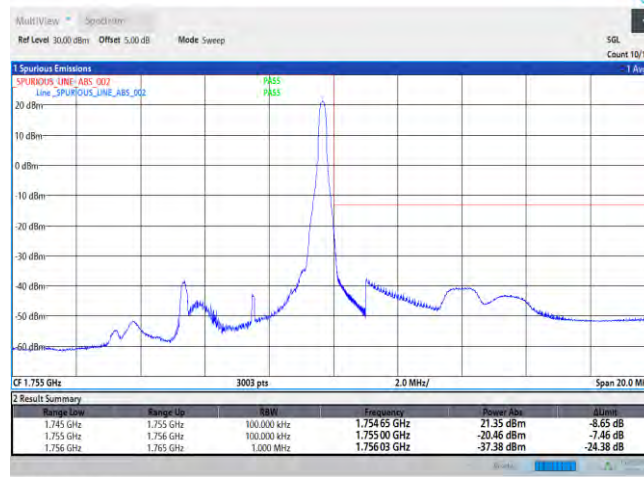


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Band4-5MHz-16QAM-20375-1RB#24



14:11:29 15.02.2022

Band4-5MHz-16QAM-20375-25RB#0



14:13:38 15.02.2022



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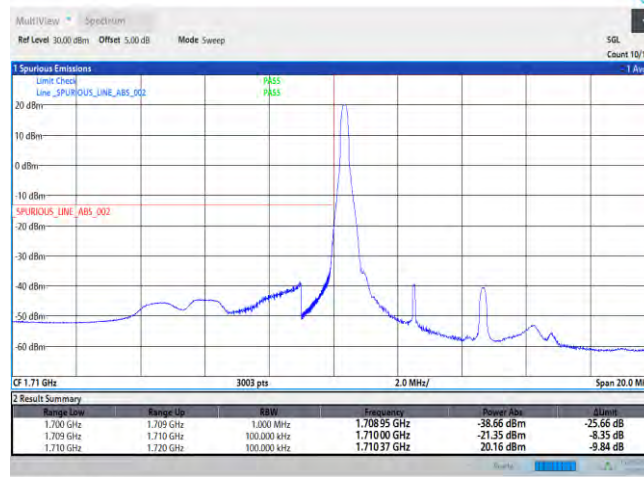
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Band4-5MHz-64QAM-19975-1RB#0



14:02:04 15.02.2022

Band4-5MHz-64QAM-19975-25RB#0



14:04:06 15.02.2022



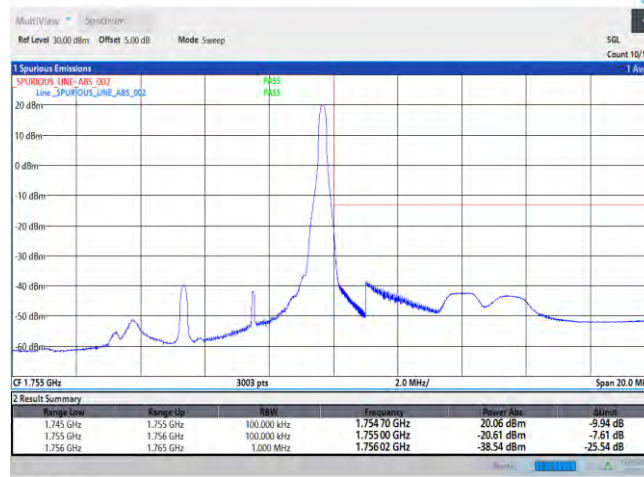
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Band4-5MHz-64QAM-20375-1RB#24



14:12:04 15.02.2022

Band4-5MHz-64QAM-20375-25RB#0



14:14:07 15.02.2022

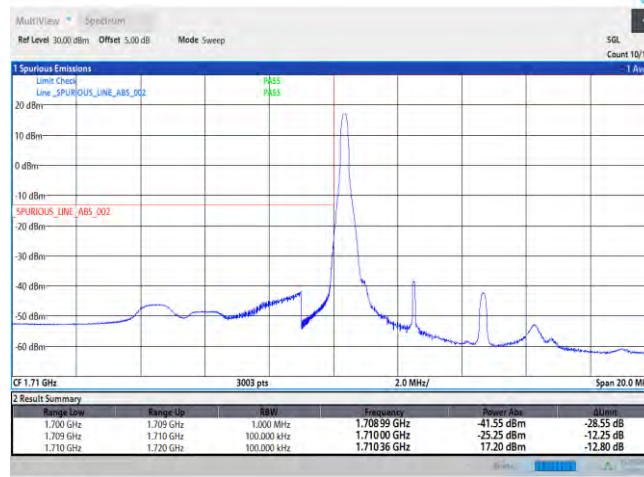


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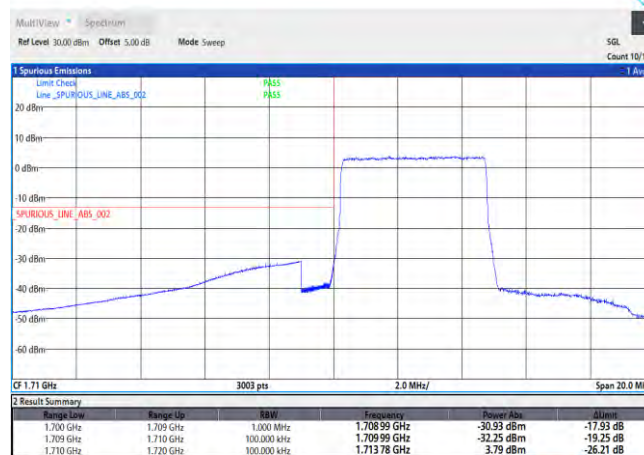


Band4-5MHz-256QAM-19975-1RB#0



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Band4-5MHz-256QAM-19975-25RB#0



14:04:34 15.02.2022



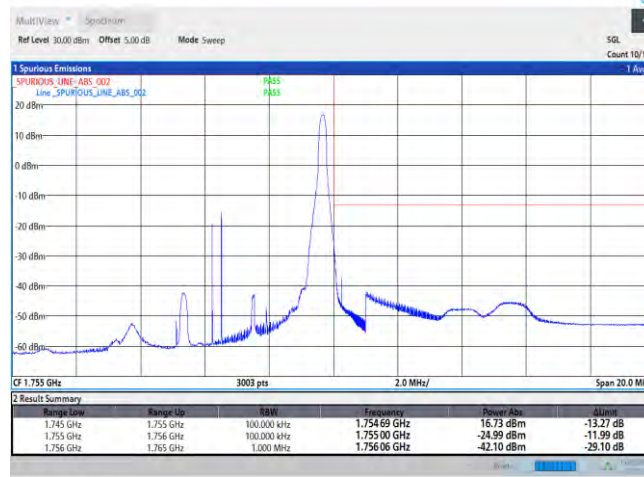
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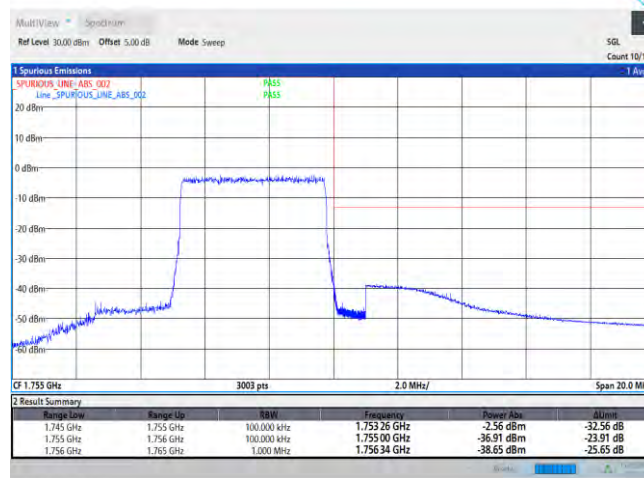
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14:12:40 15.02.2022

Band4-5MHz-256QAM-20375-25RB#0



14:14:35 15.02.2022



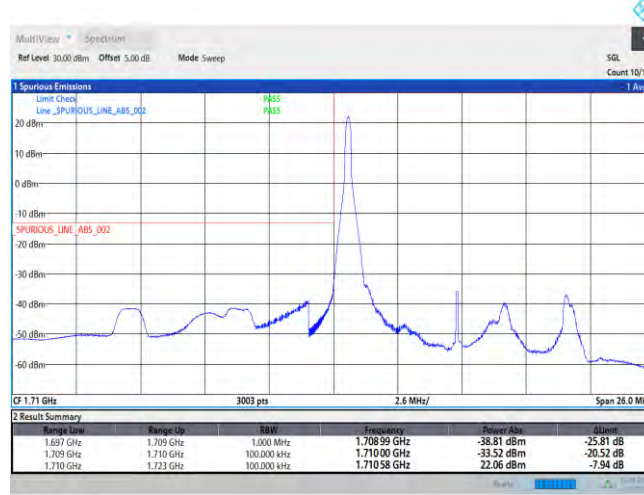
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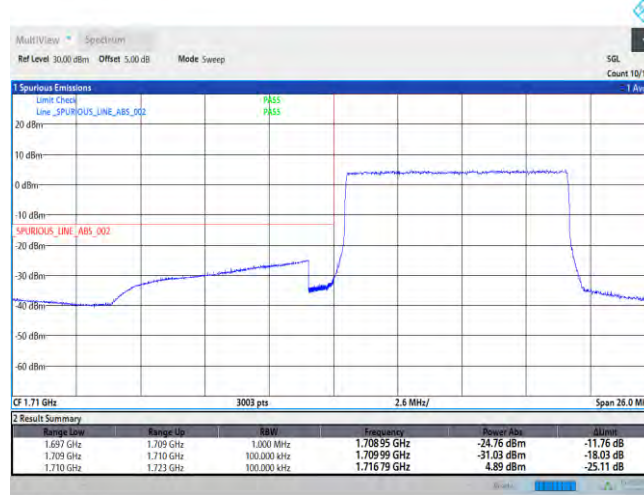
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Band4-10MHz-QPSK-20000-1RB#0



14:17:13 15.02.2022

Band4-10MHz-QPSK-20000-50RB#0



14:19:25 15.02.2022



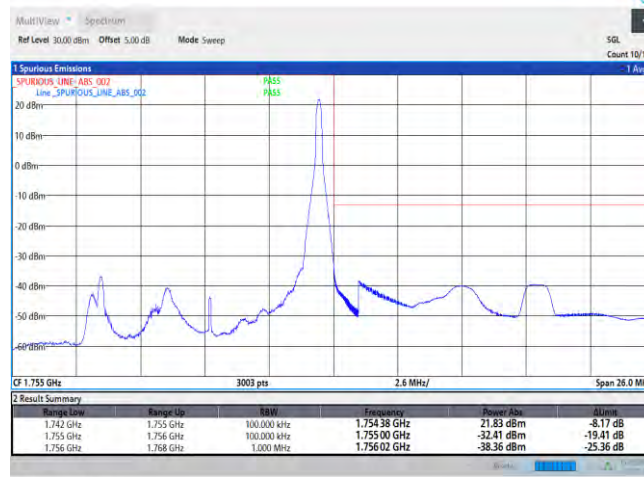
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Band4-10MHz-QPSK-20350-1RB#49



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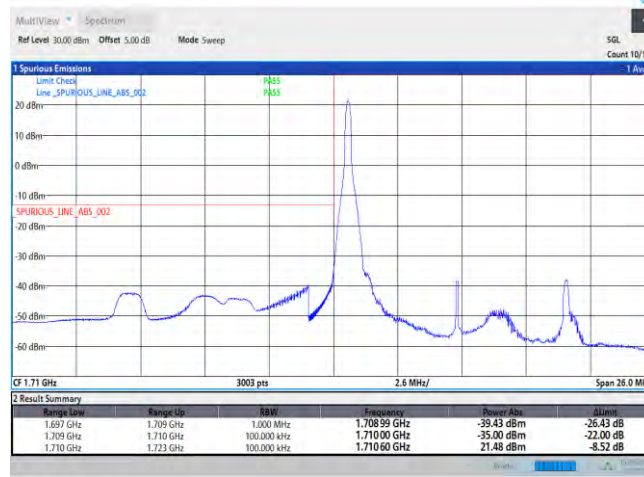


14:23:54 15.02.2022



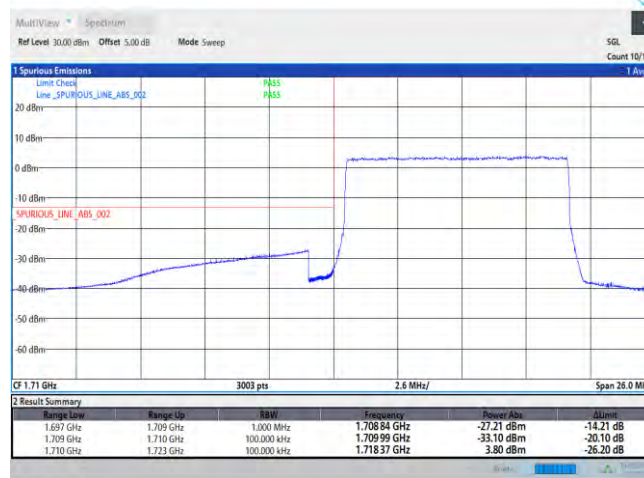
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Band4-10MHz-16QAM-20000-1RB#0



14:17:47 15.02.2022

Band4-10MHz-16QAM-20000-50RB#0



14:19:54 15.02.2022



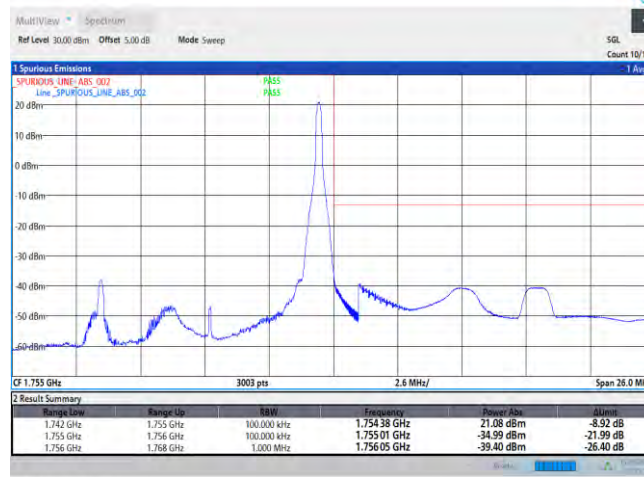
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Band4-10MHz-16QAM-20350-1RB#49



14:22:16 15.02.2022

Band4-10MHz-16QAM-20350-50RB#0



14:24:23 15.02.2022



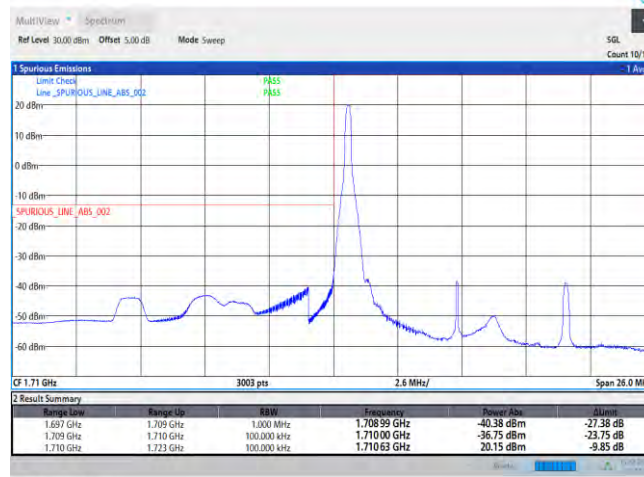
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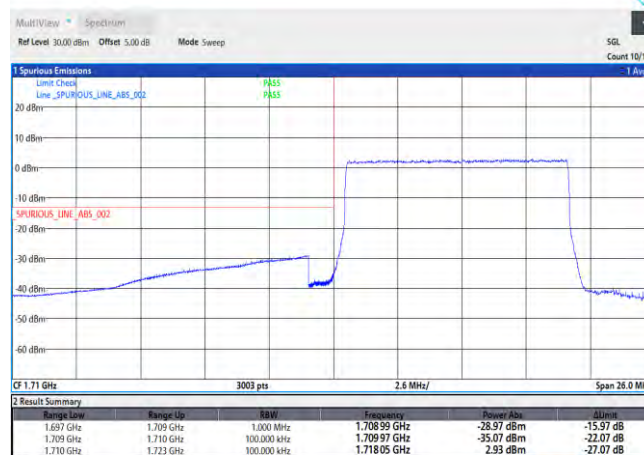


Band4-10MHz-64QAM-20000-1RB#0



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Band4-10MHz-64QAM-20000-50RB#0



14:20:23 15.02.2022



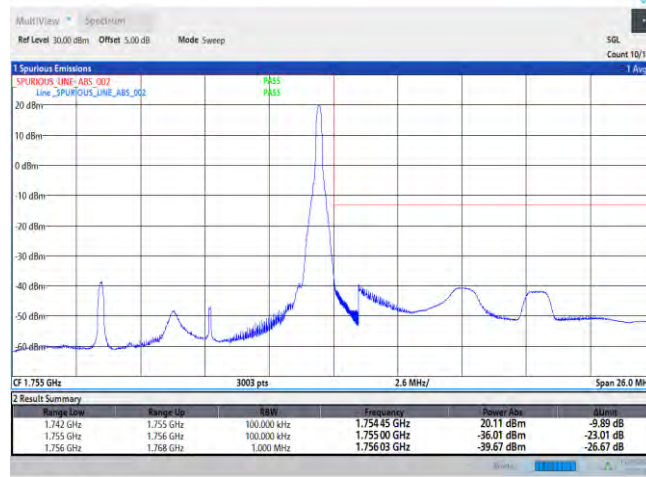
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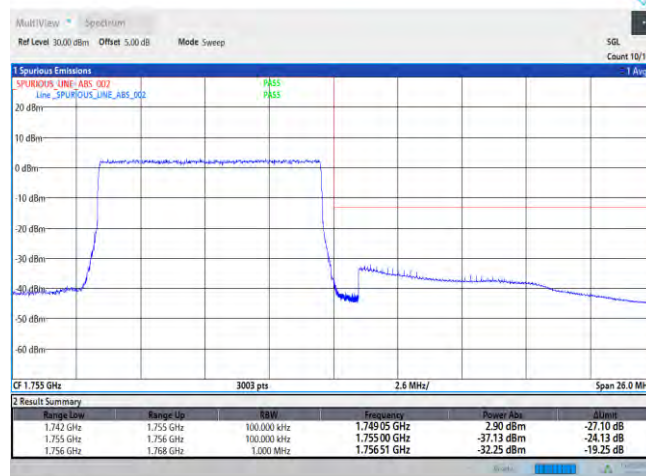
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Band4-10MHz-64QAM-20350-1RB#49



14:22:50 15.02.2022

Band4-10MHz-64QAM-20350-50RB#0



14:24:52 15.02.2022

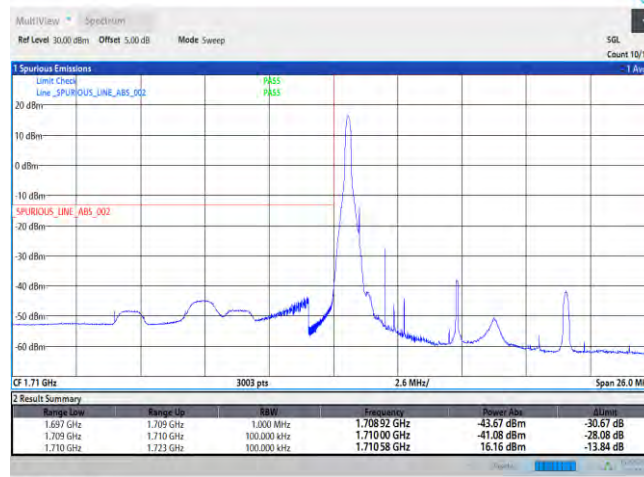


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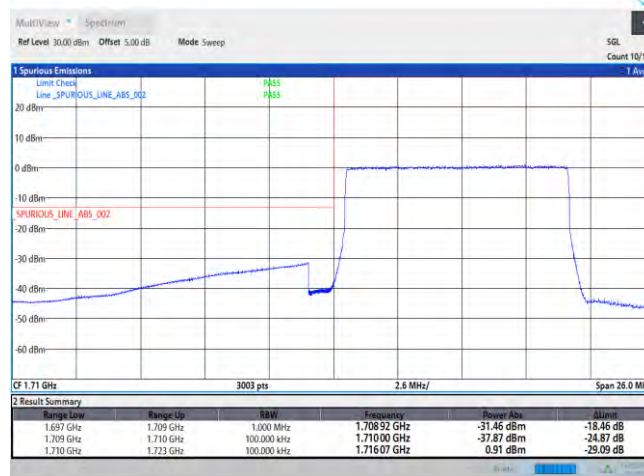
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Band4-10MHz-256QAM-20000-1RB#0



14:18:56 15.02.2022

Band4-10MHz-256QAM-20000-50RB#0



14:20:52 15.02.2022



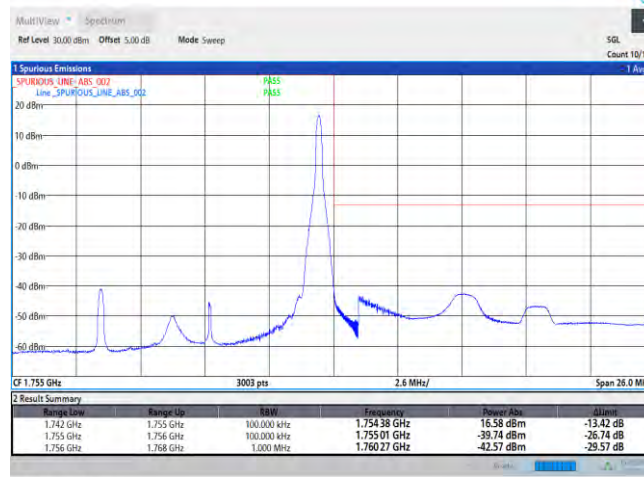
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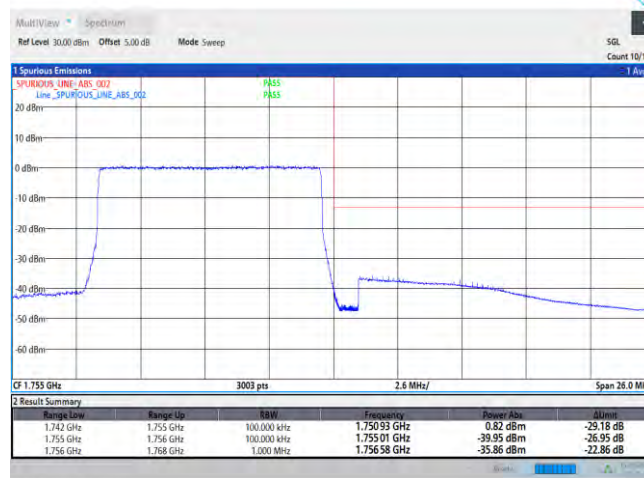


Band4-10MHz-256QAM-20350-1RB#49



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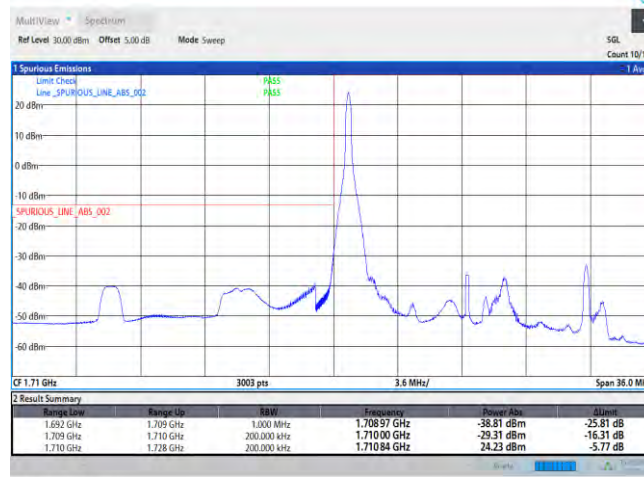
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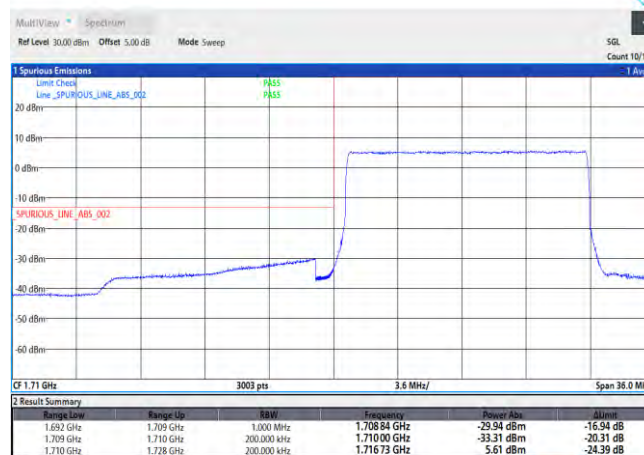
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Band4-15MHz-QPSK-20025-1RB#0



14:26:25 15.02.2022

Band4-15MHz-QPSK-20025-75RB#0



14:28:38 15.02.2022



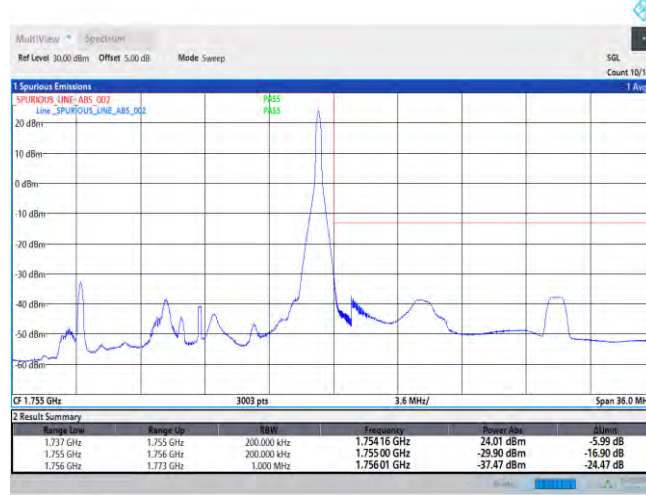
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Band4-15MHz-QPSK-20325-1RB#74



14:31:24 15.02.2022

Band4-15MHz-QPSK-20325-75RB#0



14:33:48 15.02.2022



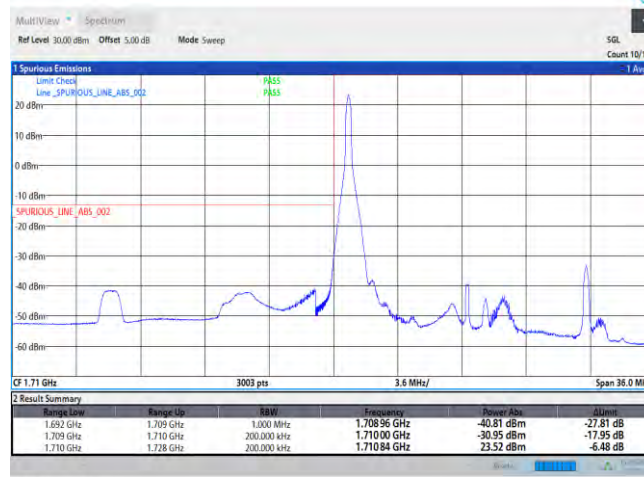
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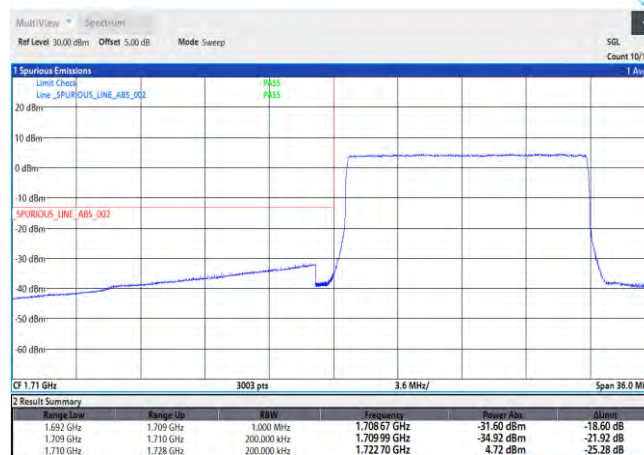


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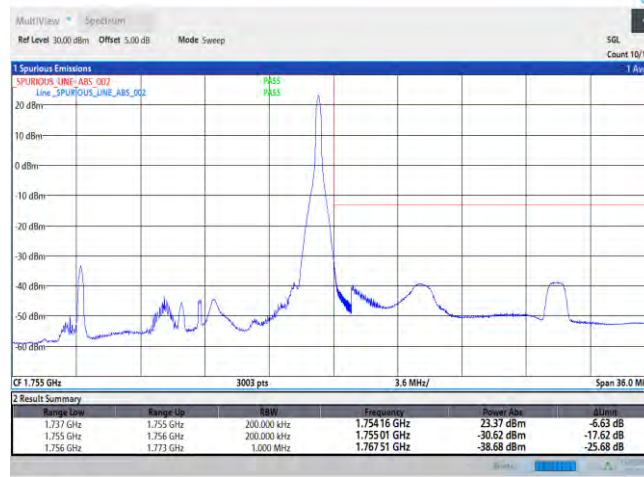


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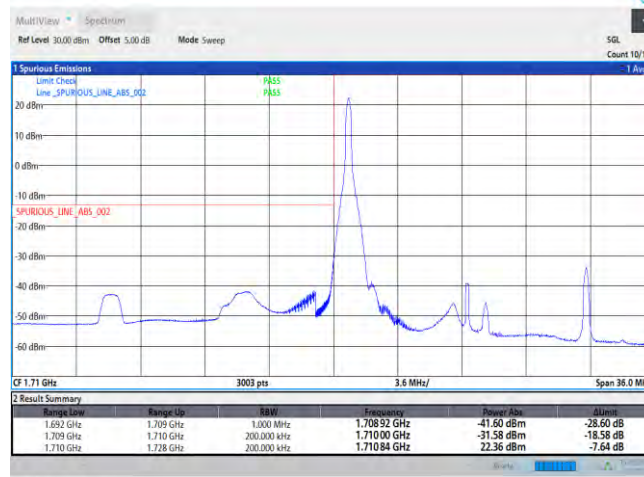
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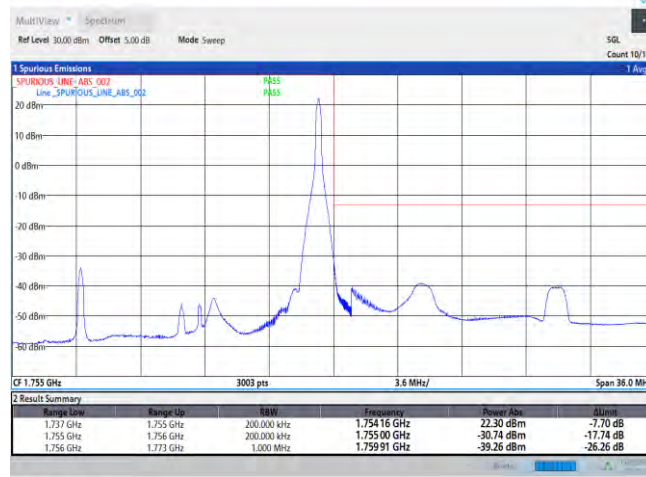
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Band4-15MHz-64QAM-20325-75RB#0



14:34:46 15.02.2022



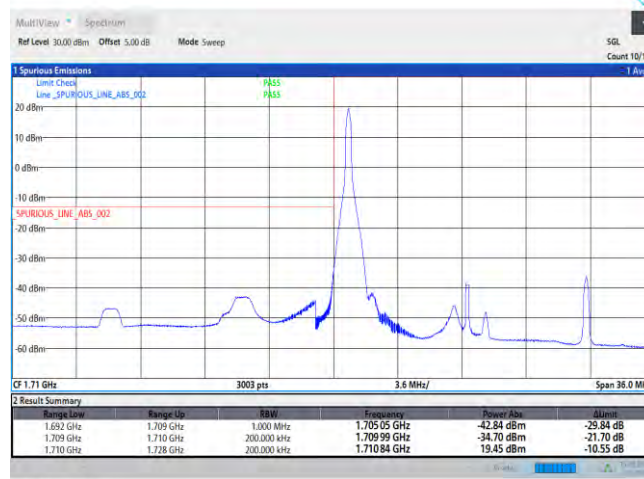
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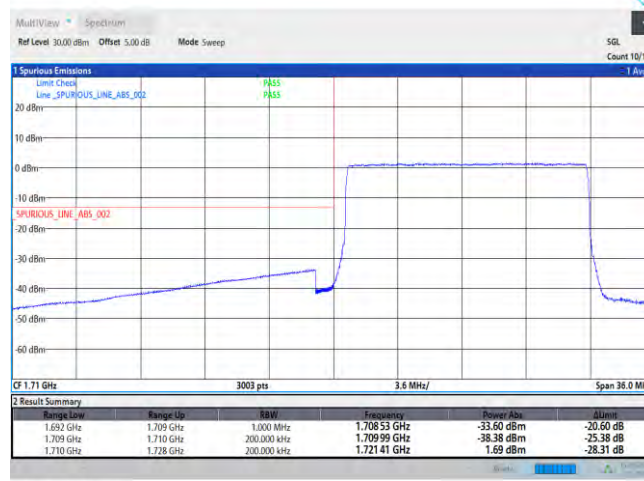
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14:28:09 15.02.2022

Band4-15MHz-256QAM-20025-75RB#0



14:30:05 15.02.2022



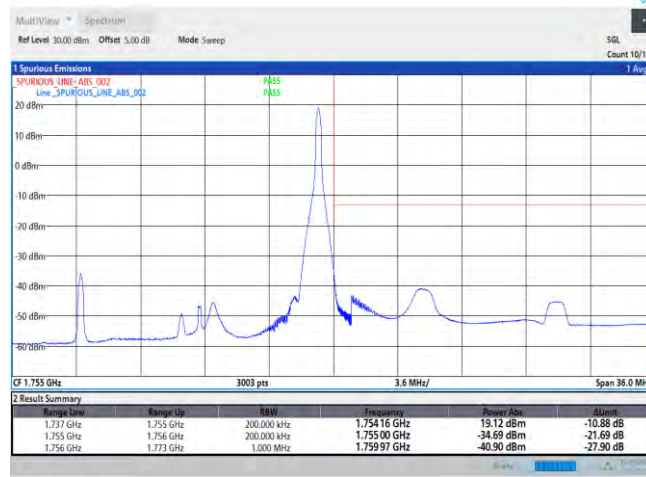
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Band4-15MHz-256QAM-20325-1RB#74



14:33:08 15.02.2022

Band4-15MHz-256QAM-20325-75RB#0



14:35:15 15.02.2022

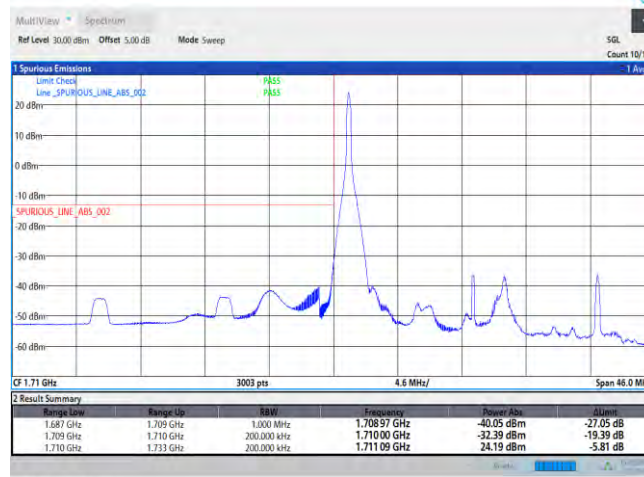


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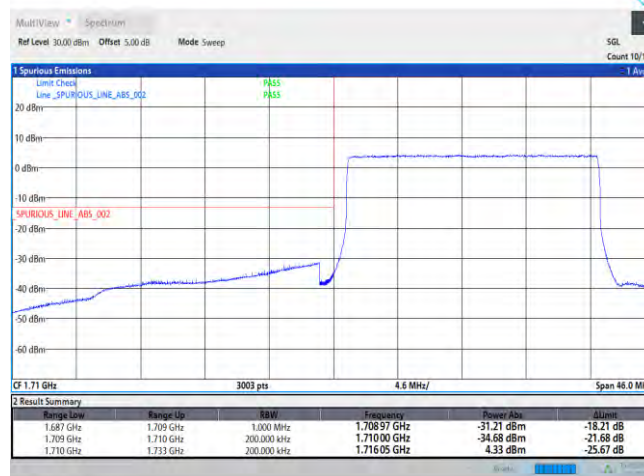


Band4-20MHz-QPSK-20050-1RB#0



14:36:07 15.02.2022

Band4-20MHz-QPSK-20050-100RB#0



14:38:26 15.02.2022



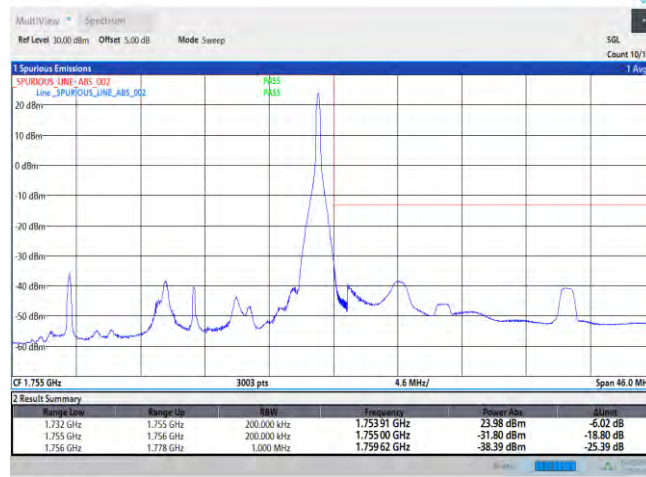
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Band4-20MHz-QPSK-20300-1RB#99



14:45:45 15.02.2022

Band4-20MHz-QPSK-20300-100RB#0



14:48:00 15.02.2022



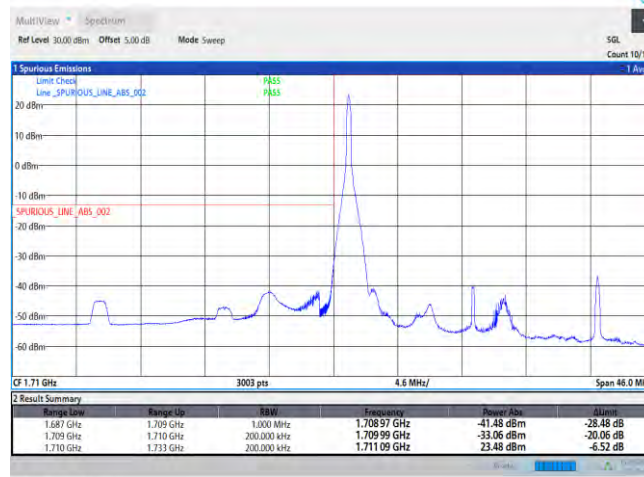
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Band4-20MHz-16QAM-20050-1RB#0



14:36:43 15.02.2022

Band4-20MHz-16QAM-20050-100RB#0



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Band4-20MHz-16QAM-20300-1RB#99



14:46:20 15.02.2022

Band4-20MHz-16QAM-20300-100RB#0



14:48:29 15.02.2022



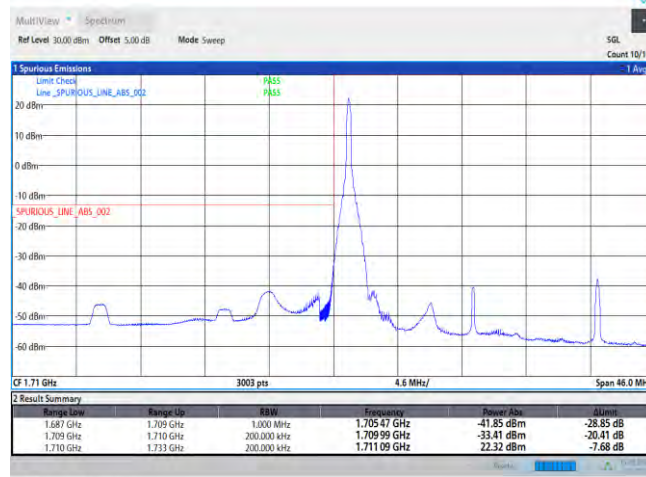
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Band4-20MHz-64QAM-20050-1RB#0



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Band4-20MHz-64QAM-20050-100RB#0



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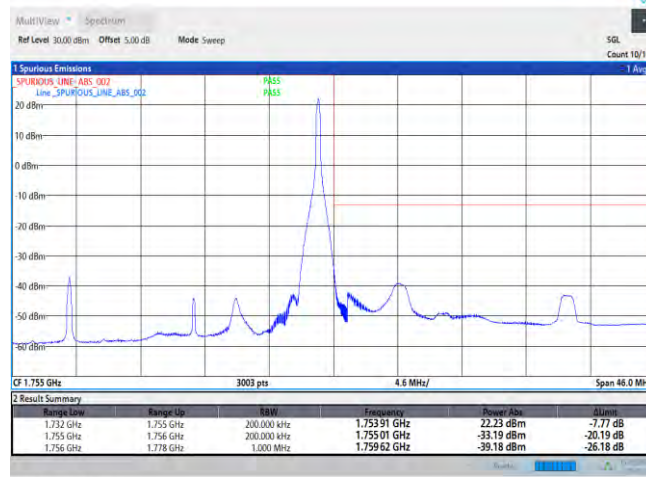


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Band4-20MHz-64QAM-20300-1RB#99



14:46:55 15.02.2022

Band4-20MHz-64QAM-20300-100RB#0



14:48:58 15.02.2022



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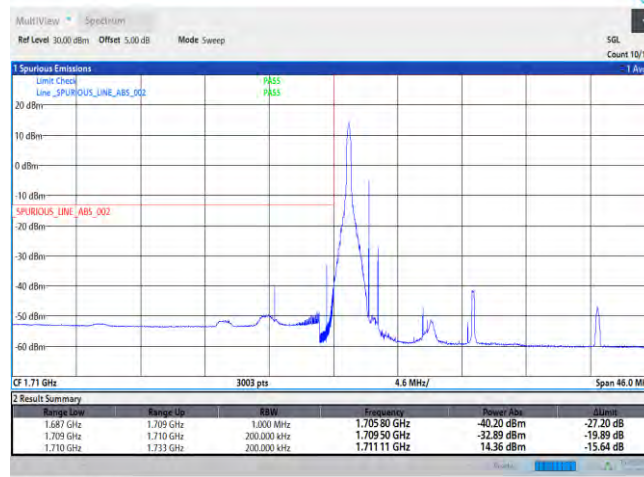
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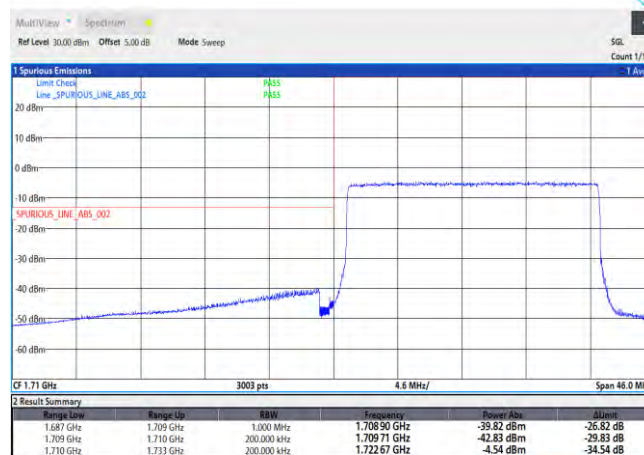


Band4-20MHz-256QAM-20050-1RB#0



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Band4-20MHz-256QAM-20050-100RB#0



14:43:21 15.02.2022



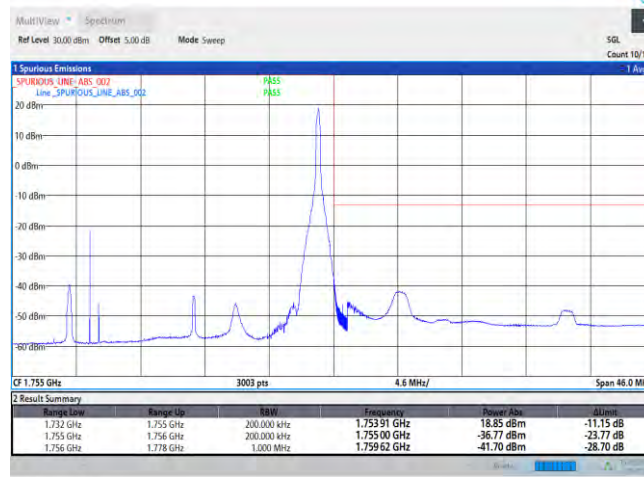
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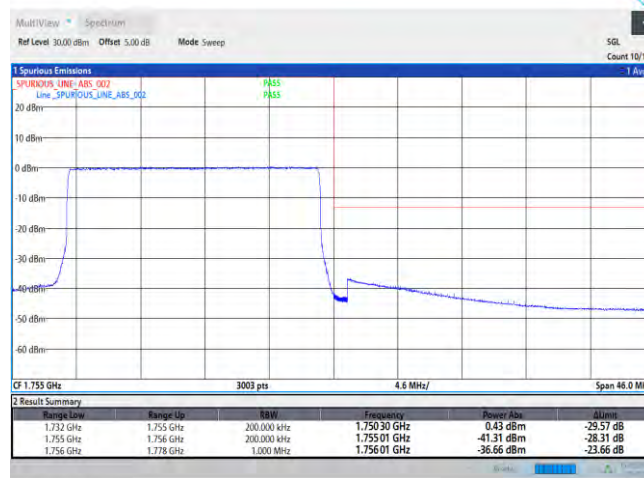
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Band4-20MHz-256QAM-20300-1RB#99



14:47:31 15.02.2022

Band4-20MHz-256QAM-20300-100RB#0



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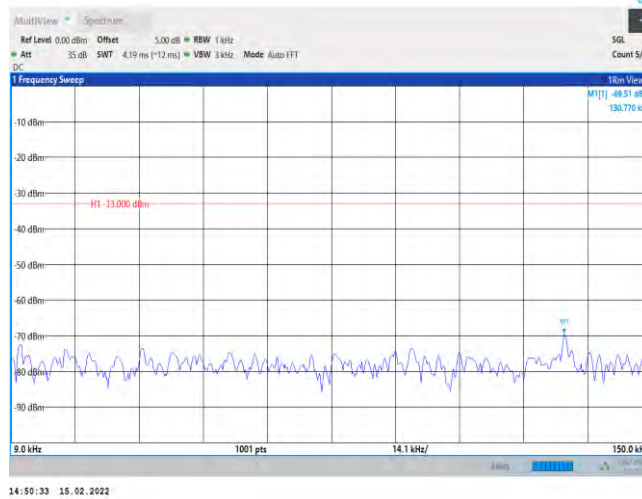
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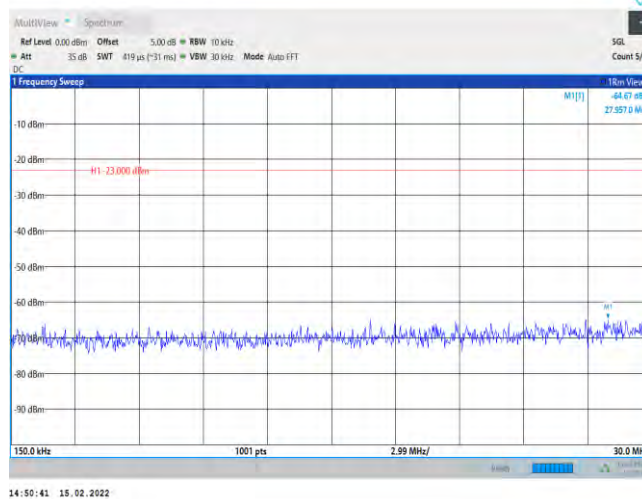
## Conducted Spurious Emission

### Test Graphs

Band4-20MHz-QPSK-20050-1RB#0-Range1:0.009~0.15MHz



Band4-20MHz-QPSK-20050-1RB#0-Range2:0.15~30MHz

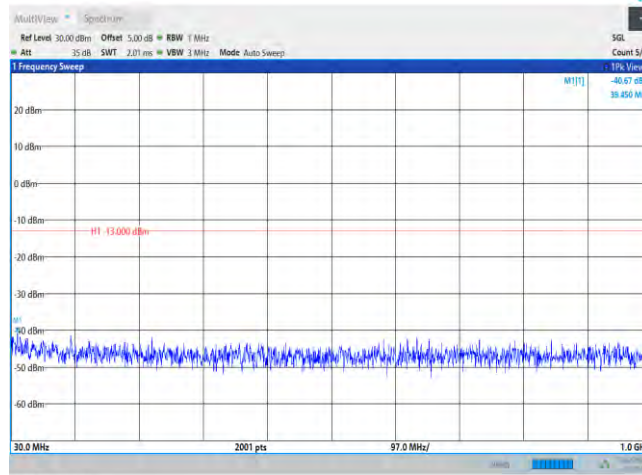


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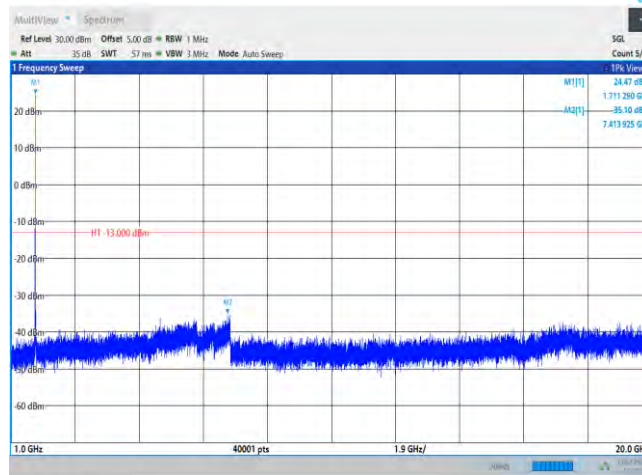


Band4-20MHz-QPSK-20050-1RB#0-Range3:30~1000MHz



14:50:50 15.02.2022

Band4-20MHz-QPSK-20050-1RB#0-Range4:1000~20000MHz



14:50:59 15.02.2022

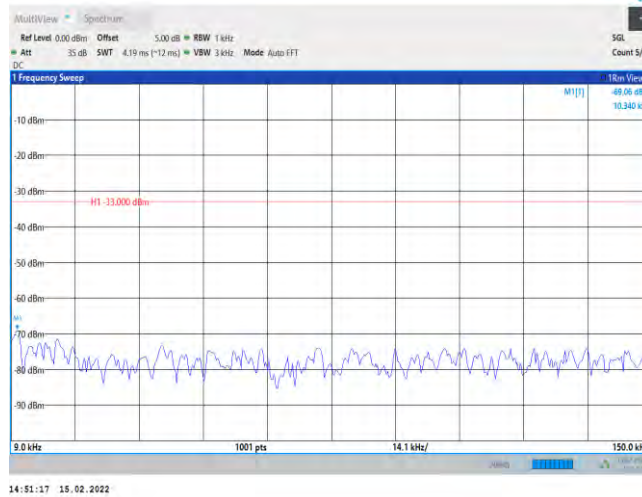


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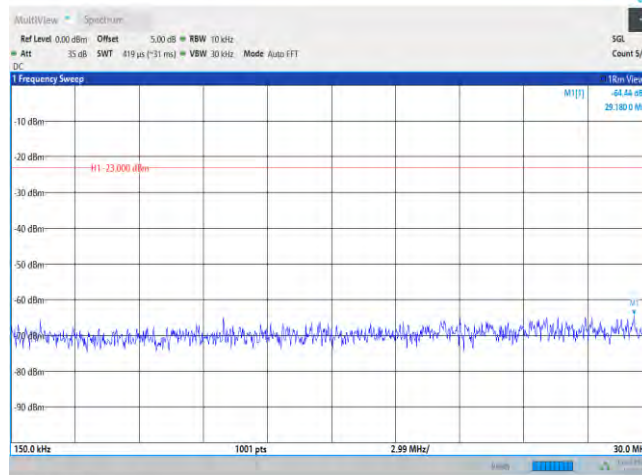
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Band4-20MHz-QPSK-20175-1RB#0-Range1:0.009~0.15MHz



14:51:17 15.02.2022

Band4-20MHz-QPSK-20175-1RB#0-Range2:0.15~30MHz



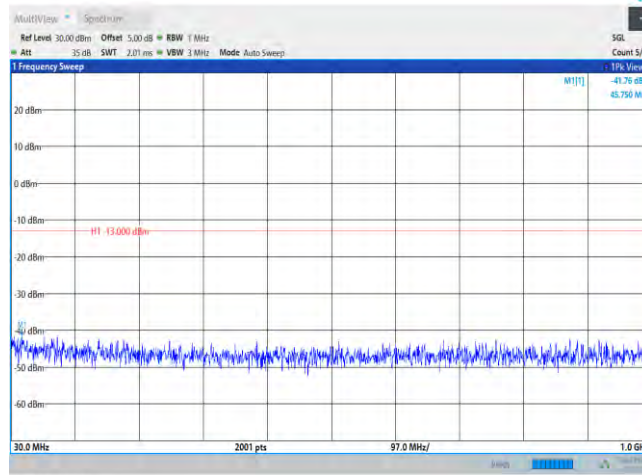
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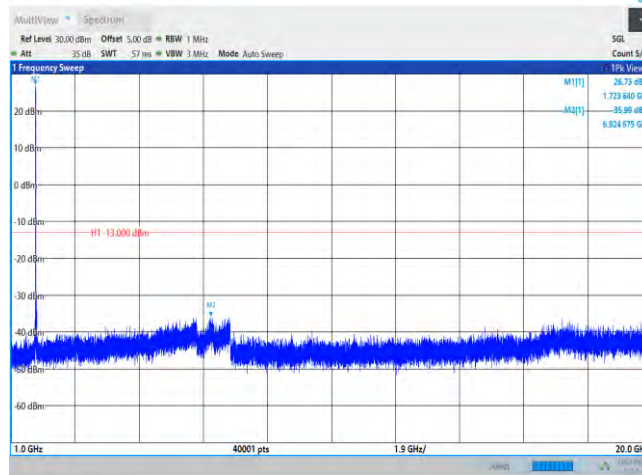
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14:51:34 15.02.2022

Band4-20MHz-QPSK-20175-1RB#0-Range4:1000~20000MHz



14:51:43 15.02.2022

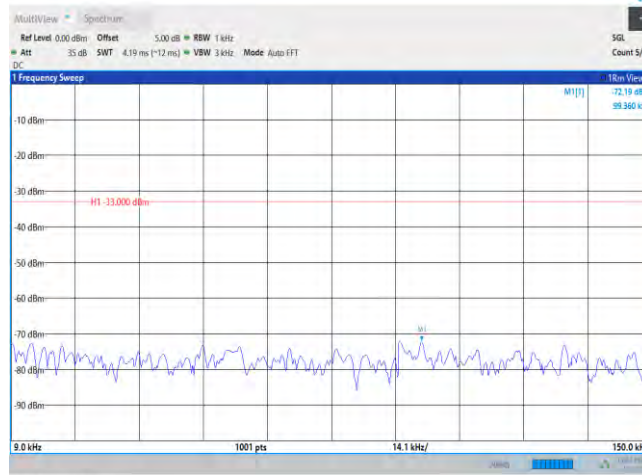


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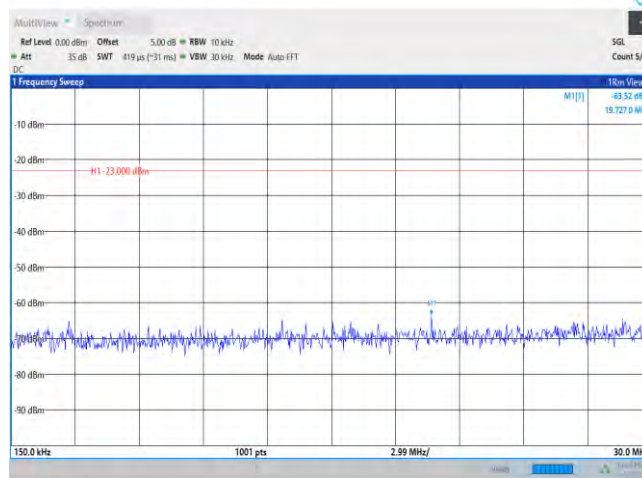
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Band4-20MHz-QPSK-20300-1RB#0-Range1:0.009~0.15MHz



Band4-20MHz-QPSK-20300-1RB#0-Range2:0.15~30MHz



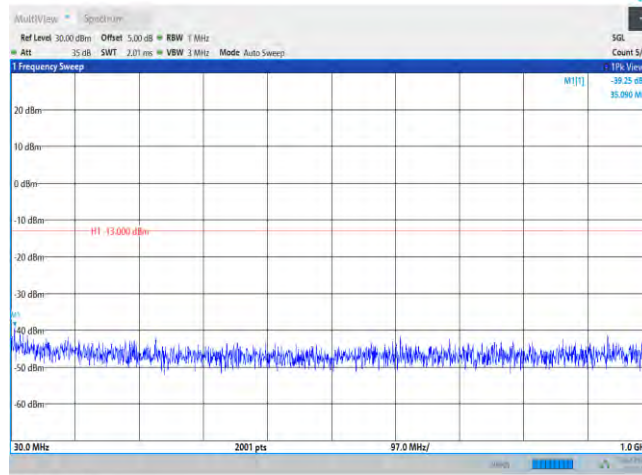
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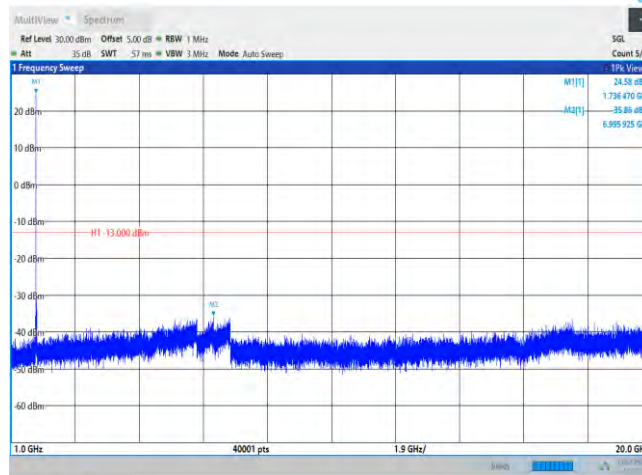
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Band4-20MHz-QPSK-20300-1RB#0-Range3:30~1000MHz



14:52:18 15.02.2022

Band4-20MHz-QPSK-20300-1RB#0-Range4:1000~20000MHz



14:52:27 15.02.2022



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## Field Strength of Spurious Radiation

Test Band =LTE Band 4\_ TM1 ANT2

Test Channel =Low Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3422.18	50.90	-111.71	-60.81	-13.00	47.81	125	166	Horizontal
2	5133.27	50.40	-106.9	-56.50	-13.00	43.50	123	16	Horizontal
3	6844.36	48.16	-101.8	-53.71	-13.00	40.71	165	359	Horizontal
4	8555.45	45.86	-96.83	-50.97	-13.00	37.97	148	359	Horizontal
5	10266.54	42.79	-93.20	-50.41	-13.00	37.41	195	346	Horizontal
6	11977.63	41.32	-91.95	-50.63	-13.00	37.63	175	354	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3422.18	52.81	-111.71	-58.90	-13.00	45.90	174	88	Vertical
2	5133.27	49.96	-106.9	-56.94	-13.00	43.94	159	179	Vertical
3	6844.36	48.20	-101.8	-53.67	-13.00	40.67	148	265	Vertical
4	8555.45	45.18	-96.83	-51.65	-13.00	38.65	169	145	Vertical
5	10266.54	42.54	-93.20	-50.66	-13.00	37.66	125	98	Vertical
6	11977.63	43.55	-91.95	-48.40	-13.00	35.40	138	80	Vertical



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**Test Band =LTE Band 4\_ TM1 ANT2**  
**Test Channel =Mid Channel**

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3447.18	49.78	-111.65	-61.87	-13.00	48.87	144	359	Horizontal
2	5170.77	51.40	-106.8	-55.45	-13.00	42.45	221	313	Horizontal
3	6894.36	47.25	-101.7	-54.46	-13.00	41.46	235	298	Horizontal
4	8617.95	45.48	-96.82	-51.34	-13.00	38.34	186	346	Horizontal
5	10341.54	41.33	-93.06	-51.73	-13.00	38.73	205	132	Horizontal
6	12065.13	44.93	-91.85	-46.92	-13.00	33.92	221	47	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3447.18	51.20	-111.65	-60.45	-13.00	47.45	196	33	Vertical
2	5170.77	50.38	-106.8	-56.47	-13.00	43.47	235	163	Vertical
3	6894.36	48.26	-101.7	-53.45	-13.00	40.45	145	16	Vertical
4	8617.95	46.17	-96.82	-50.65	-13.00	37.65	222	328	Vertical
5	10341.54	40.90	-93.06	-52.16	-13.00	39.16	288	328	Vertical
6	12065.13	45.74	-91.85	-46.11	-13.00	33.11	191	359	Vertical



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**Test Band =LTE Band 4\_ TM1 ANT2**  
**Test Channel =High Channel**

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3472.18	55.00	-111.61	-56.61	-13.00	43.61	123	233	Horizontal
2	5208.27	51.16	-106.8	-55.64	-13.00	42.64	269	31	Horizontal
3	6944.36	46.56	-101.6	-55.11	-13.00	42.11	250	314	Horizontal
4	8680.45	45.93	-96.47	-50.54	-13.00	37.54	231	31	Horizontal
5	10416.54	43.21	-92.76	-49.55	-13.00	36.55	184	359	Horizontal
6	12152.63	41.16	-91.73	-50.57	-13.00	37.57	172	81	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3472.18	52.84	-111.61	-58.77	-13.00	45.77	220	344	Vertical
2	5208.27	53.15	-106.8	-53.65	-13.00	40.65	301	179	Vertical
3	6944.36	47.16	-101.6	-54.51	-13.00	41.51	184	179	Vertical
4	8680.45	45.78	-96.47	-50.69	-13.00	37.69	189	98	Vertical
5	10416.54	42.46	-92.76	-50.30	-13.00	37.30	127	3	Vertical
6	12152.63	42.54	-91.73	-49.19	-13.00	36.19	176	295	Vertical

Remark: all the antenna were tested, but only showed the worst case in this report.



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## Frequency Stability

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band4	20MHz	QPSK	20175	100RB#0	VL	NT	-6.60	-0.003810	PASS
Band4	20MHz	QPSK	20175	100RB#0	VN	NT	1.70	0.000981	PASS
Band4	20MHz	QPSK	20175	100RB#0	VH	NT	4.60	0.002655	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band4	20MHz	QPSK	20175	100RB#0	NV	-30	2.30	0.001328	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-20	6.10	0.003521	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-10	-0.30	-0.000173	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	0	-1.40	-0.000808	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	10	-3.10	-0.001789	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	20	3.90	0.002251	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	30	2.10	0.001212	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	40	3.50	0.002020	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	50	-5.40	-0.003117	PASS

The End



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