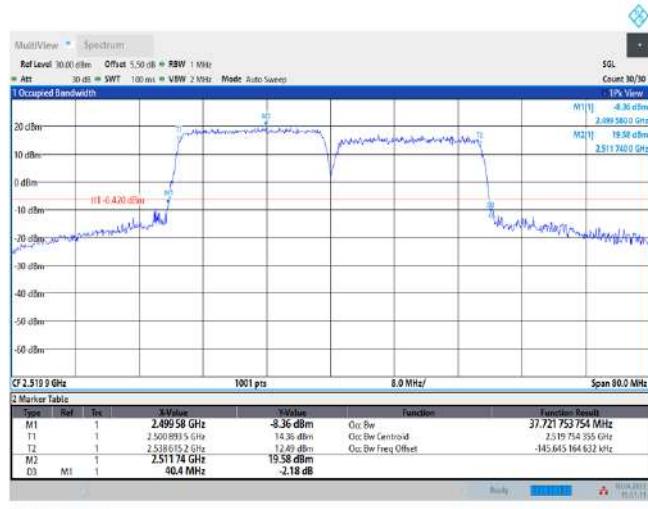
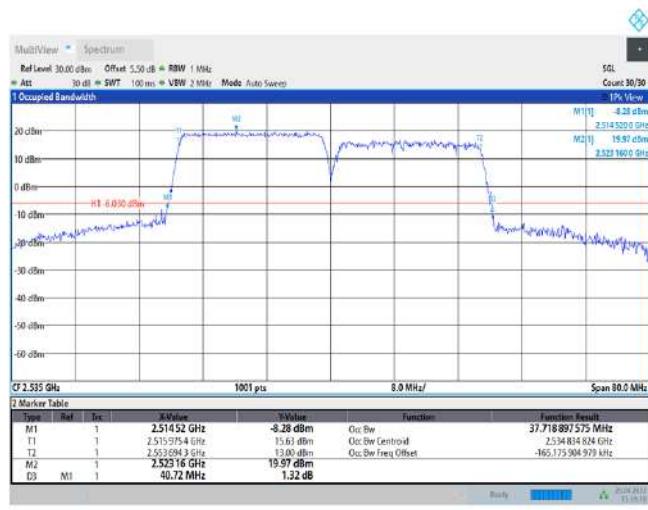


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## 7-7-20MHz-20MHz-QPSK-QPSK-20850-21048-100RB#0-100RB#0



## 7-7-20MHz-20MHz-QPSK-QPSK-21001-21199-100RB#0-100RB#0



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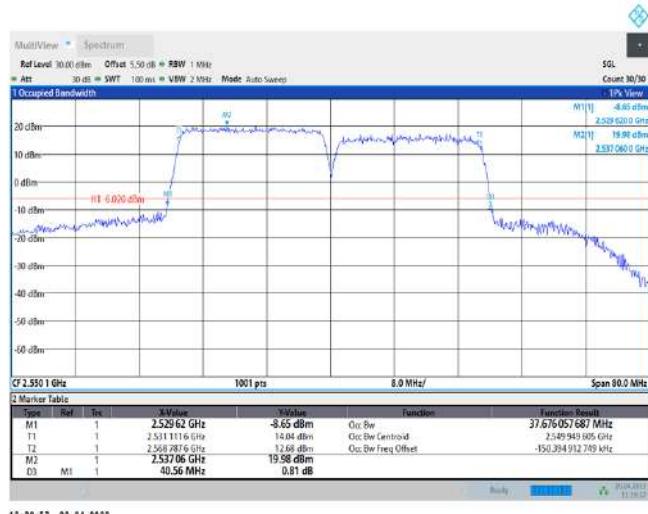


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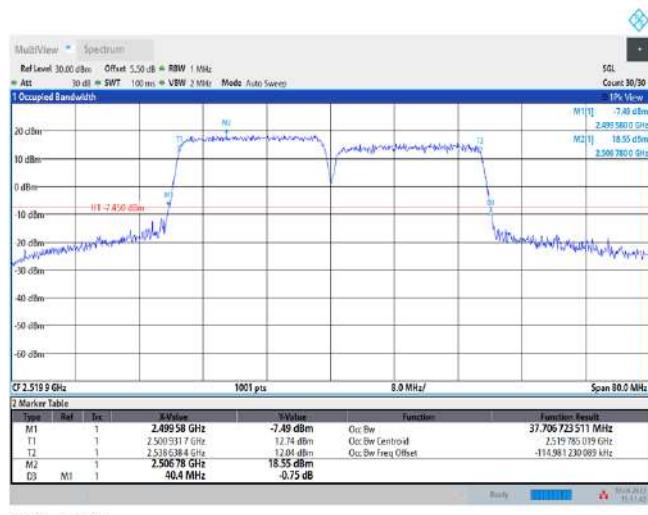
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## 7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-100RB#0-100RB#0



## 7-7-20MHz-20MHz-16QAM-16QAM-20850-21048-100RB#0-100RB#0



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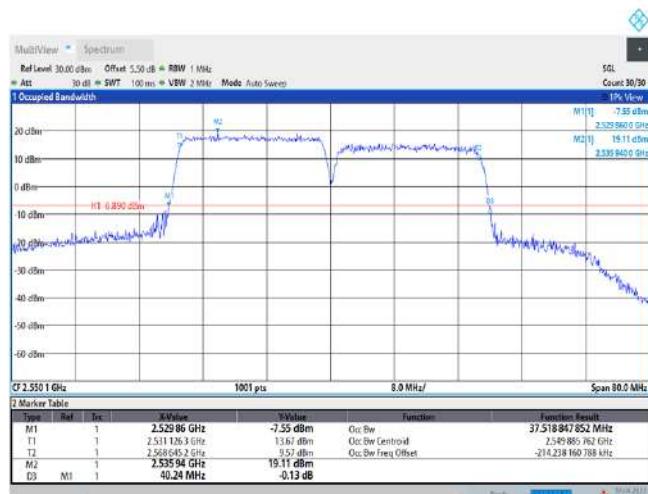
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7-7-20MHz-20MHz-16QAM-16QAM-21152-21350-100RB#0-100RB#0



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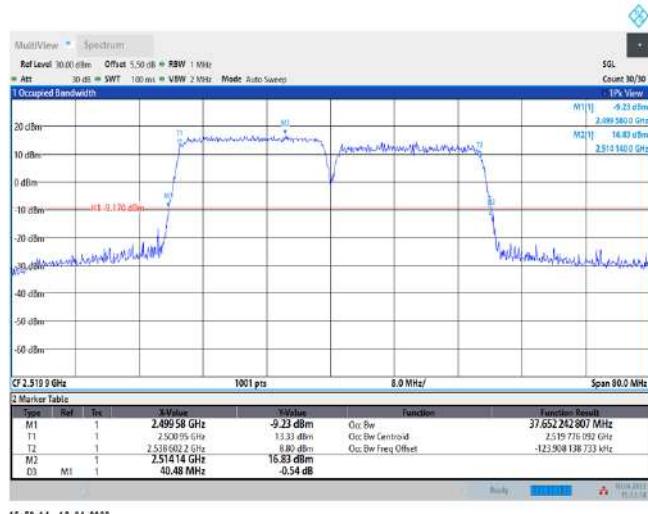
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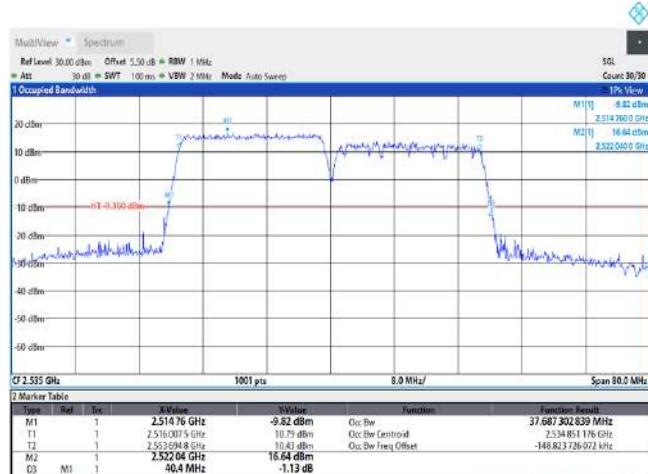
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## 7-7-20MHz-20MHz-64QAM-64QAM-20850-21048-100RB#0-100RB#0



15:52:14 18.04.2022

## 7-7-20MHz-20MHz-64QAM-64QAM-21001-21199-100RB#0-100RB#0



15:54:27 18.04.2022

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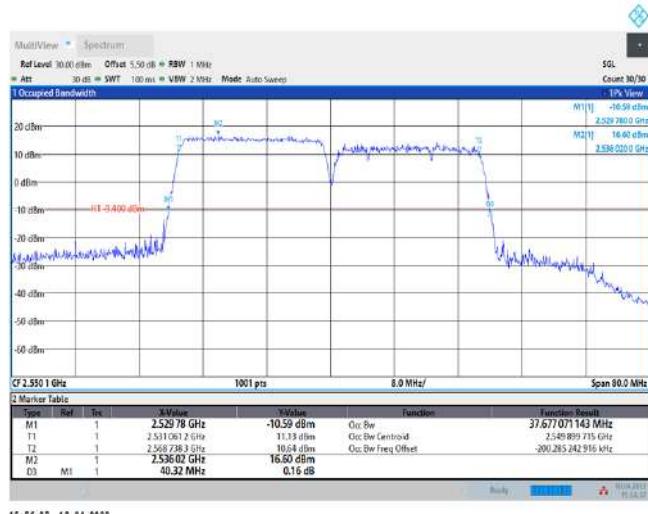
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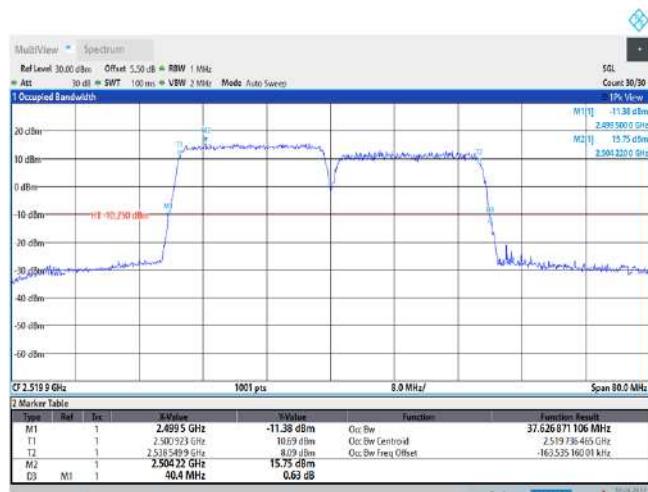
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## 7-7-20MHz-20MHz-64QAM-64QAM-21152-21350-100RB#0-100RB#0



## 7-7-20MHz-20MHz-256QAM-256QAM-20850-21048-100RB#0-100RB#0



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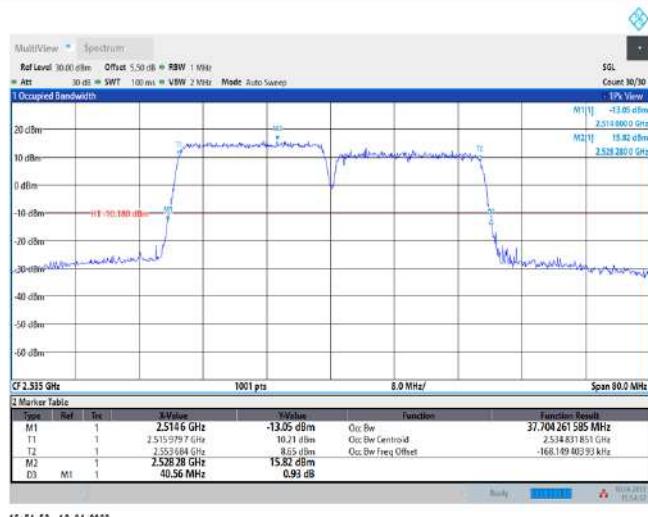


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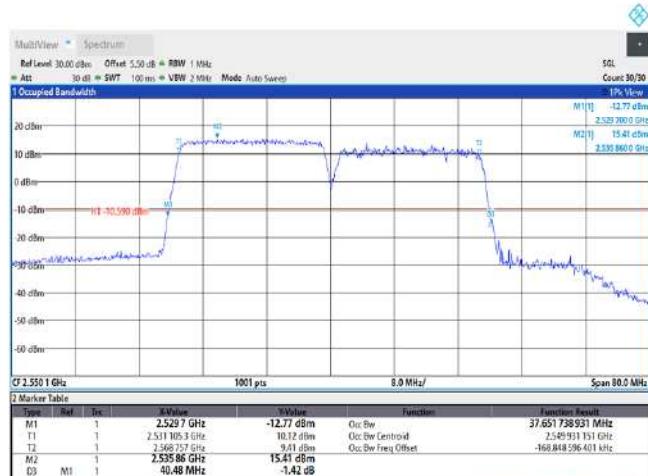
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## 7-7-20MHz-20MHz-256QAM-256QAM-21001-21199-100RB#0-100RB#0



15:54:58 18.04.2022

## 7-7-20MHz-20MHz-256QAM-256QAM-21152-21350-100RB#0-100RB#0



15:57:09 18.04.2022

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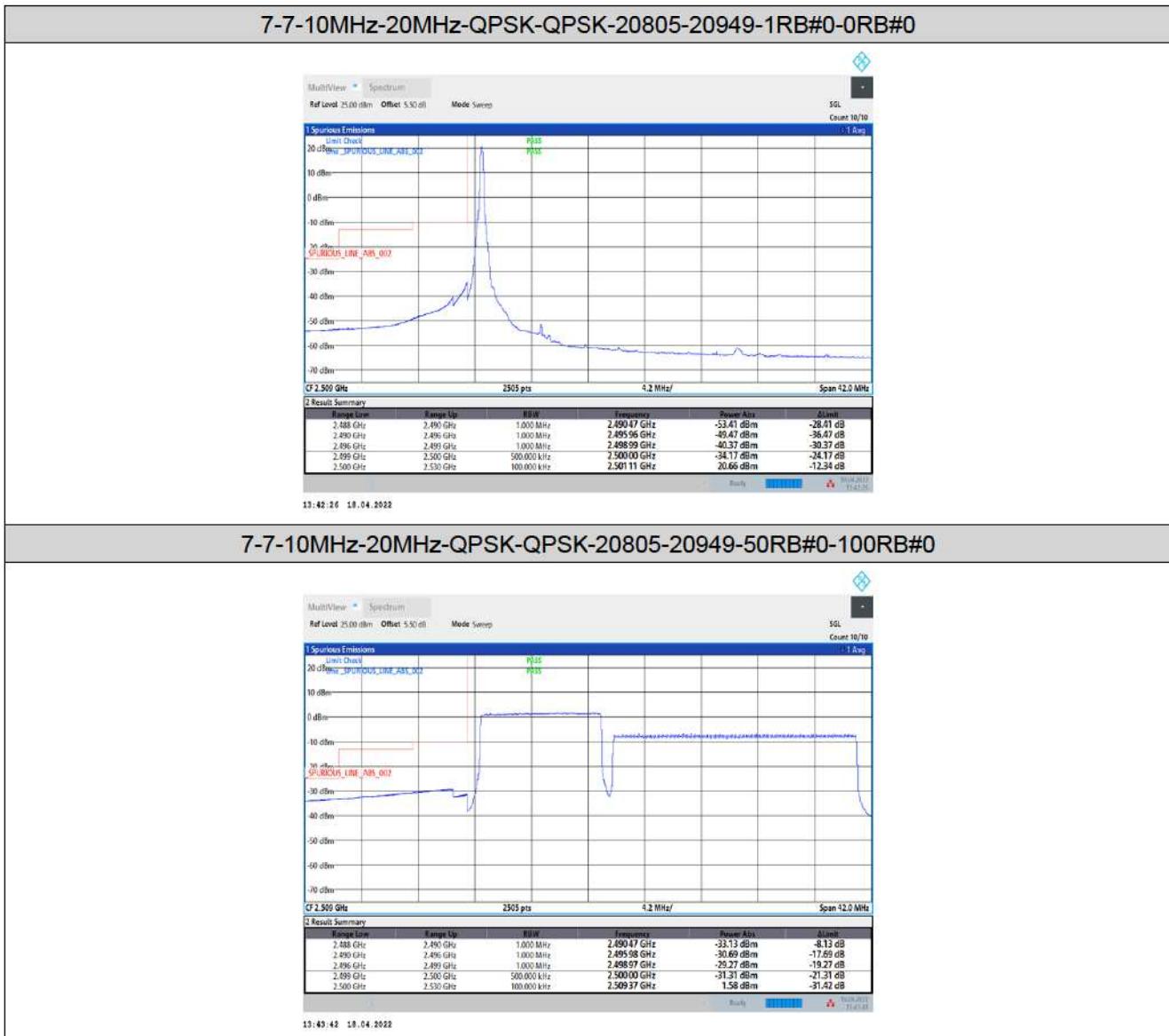
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## Band Edge

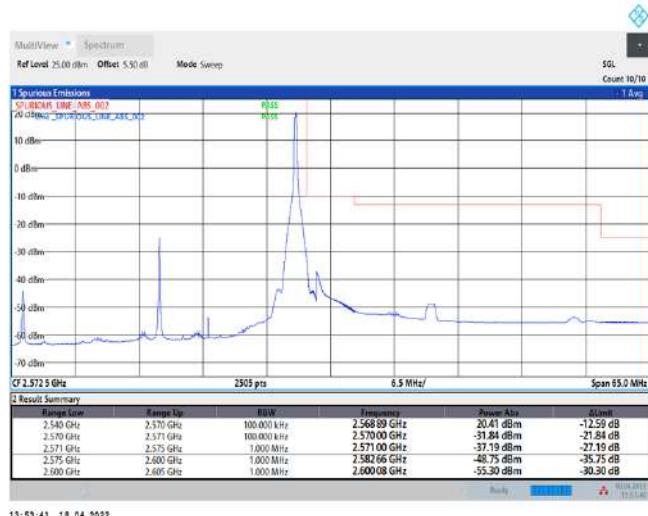
## Test Graphs



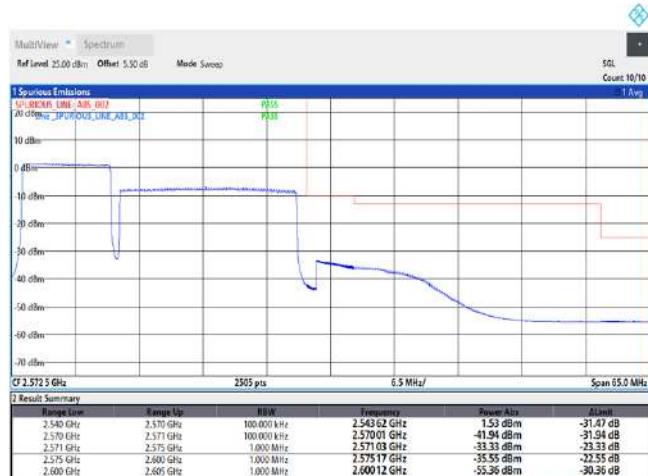
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**7-7-10MHz-20MHz-QPSK-QPSK-21206-21350-0RB#0-1RB#99**

13:53:41 18.04.2022

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13:54:57 18.04.2022

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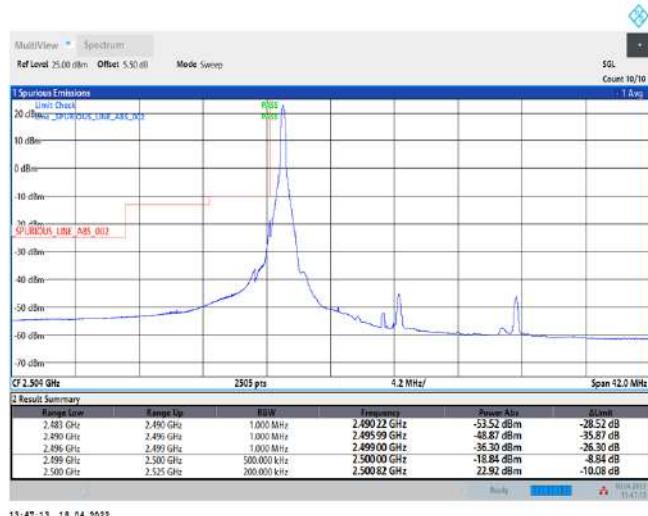


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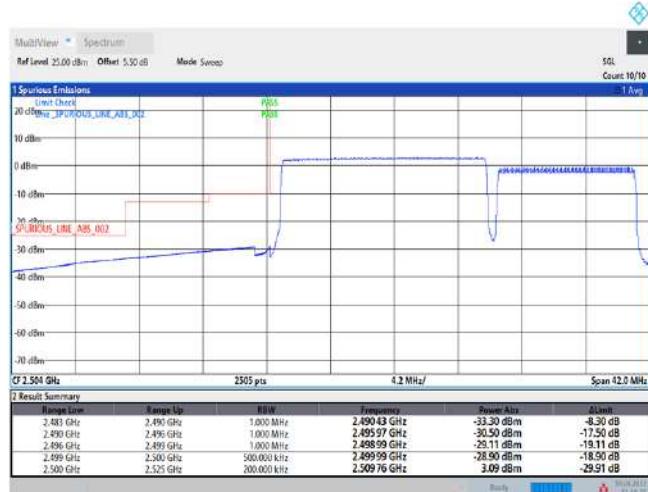
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**7-7-15MHz-10MHz-QPSK-QPSK-20825-20945-1RB#0-0RB#0**

13:47:13 18.04.2022

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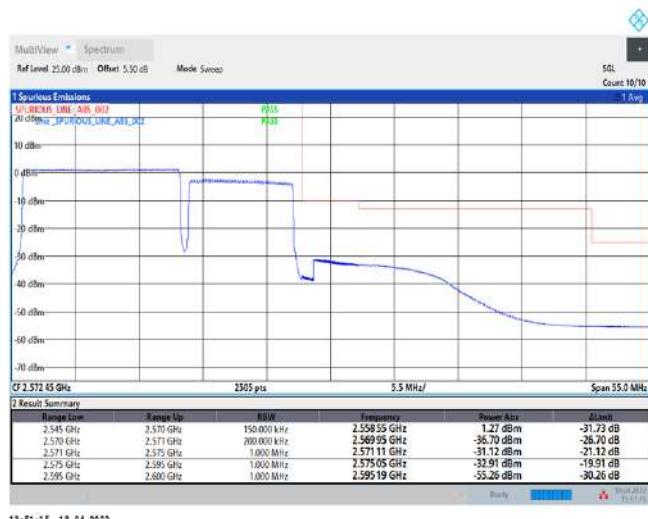


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**7-7-15MHz-10MHz-QPSK-QPSK-21277-21397-0RB#0-1RB#49****7-7-15MHz-10MHz-QPSK-QPSK-21277-21397-75RB#0-50RB#0**

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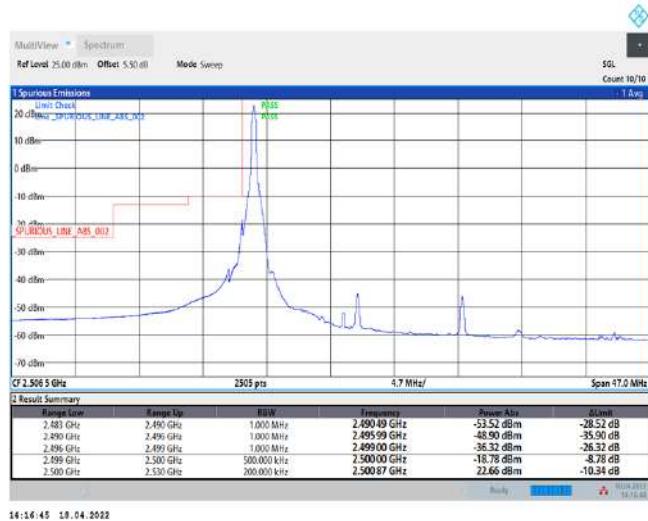
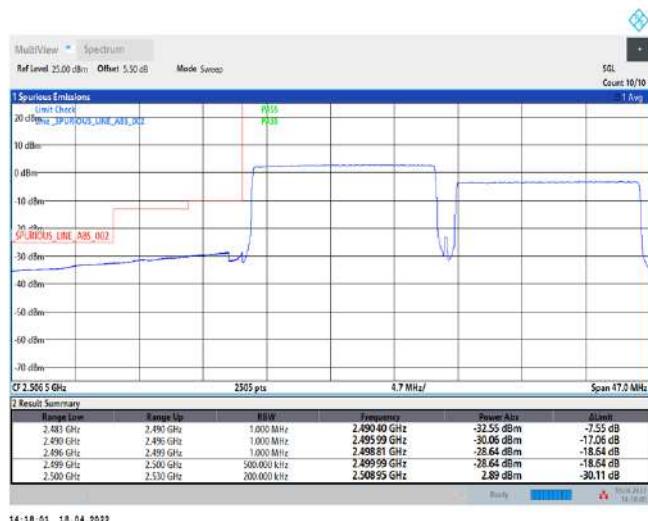


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**7-7-15MHz-15MHz-QPSK-QPSK-20825-20975-1RB#0-0RB#0****7-7-15MHz-15MHz-QPSK-QPSK-20825-20975-75RB#0-75RB#0**

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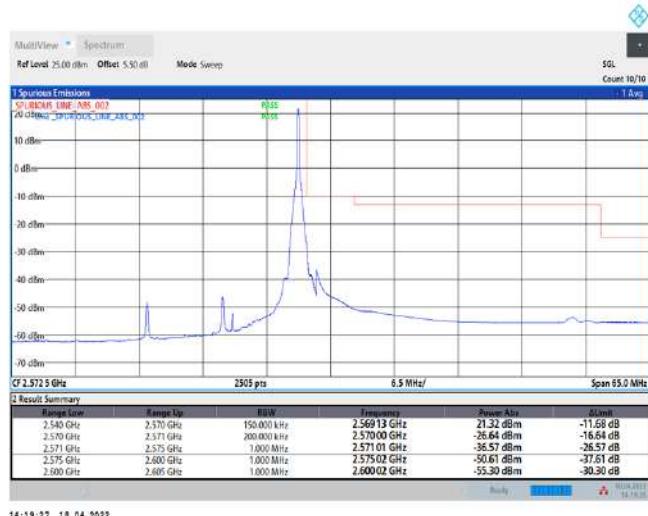
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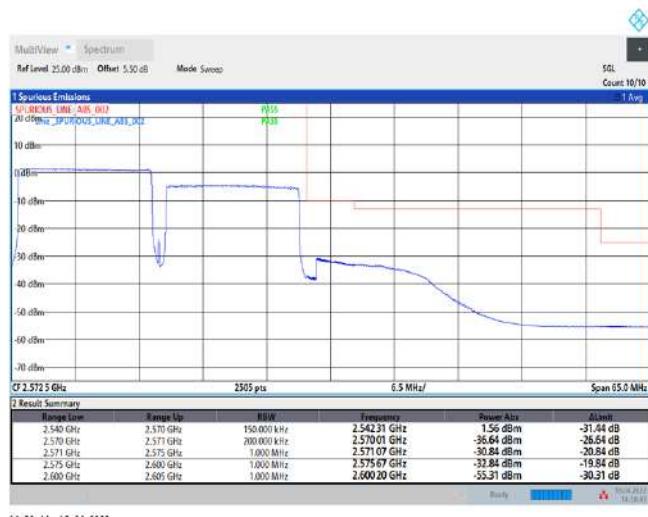
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### 7-7-15MHz-15MHz-QPSK-QPSK-21225-21375-0RB#0-1RB#74



### 7-7-15MHz-15MHz-QPSK-QPSK-21225-21375-75RB#0-75RB#0



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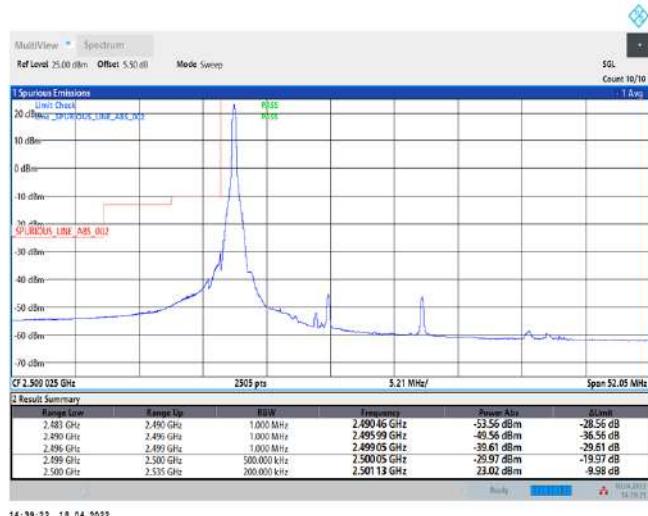


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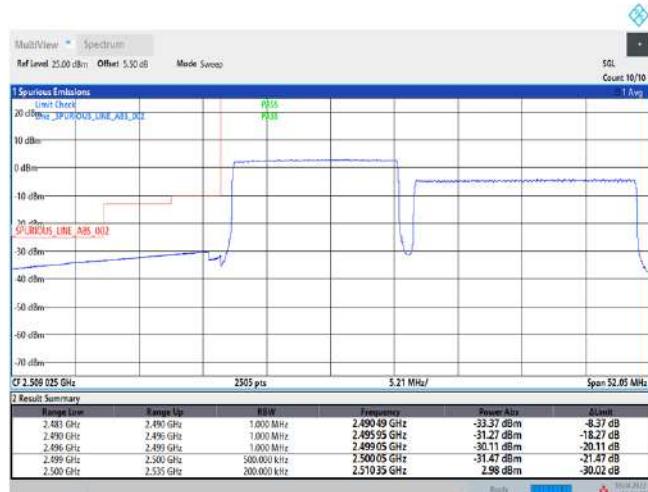
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**7-7-15MHz-20MHz-QPSK-QPSK-20828-20999-1RB#0-0RB#0**

14:39:22 18.04.2022

**7-7-15MHz-20MHz-QPSK-QPSK-20828-20999-75RB#0-100RB#0**

14:40:38 18.04.2022

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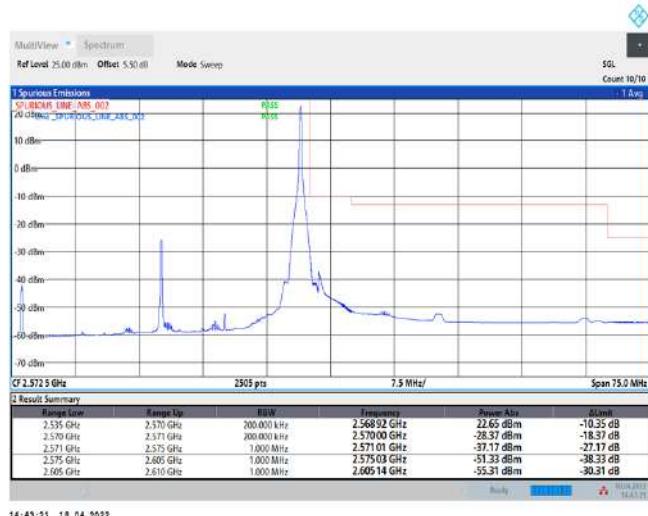


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**7-7-15MHz-20MHz-QPSK-QPSK-21179-21350-0RB#0-1RB#99**



14:43:21 18.04.2022

**7-7-15MHz-20MHz-QPSK-QPSK-21179-21350-75RB#0-100RB#0**



14:44:37 18.04.2022

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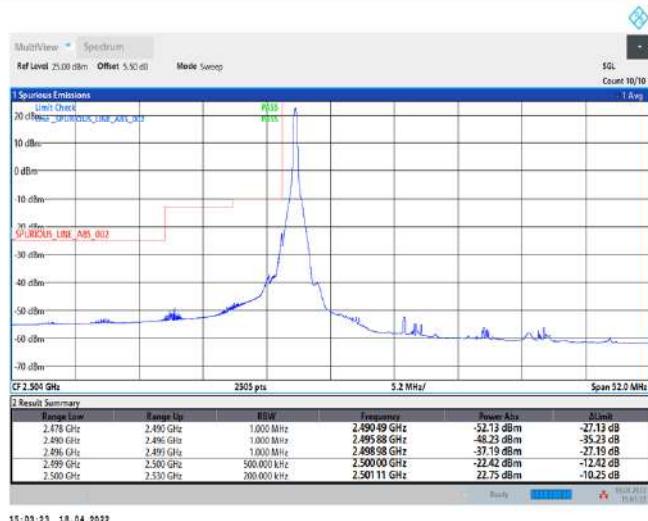


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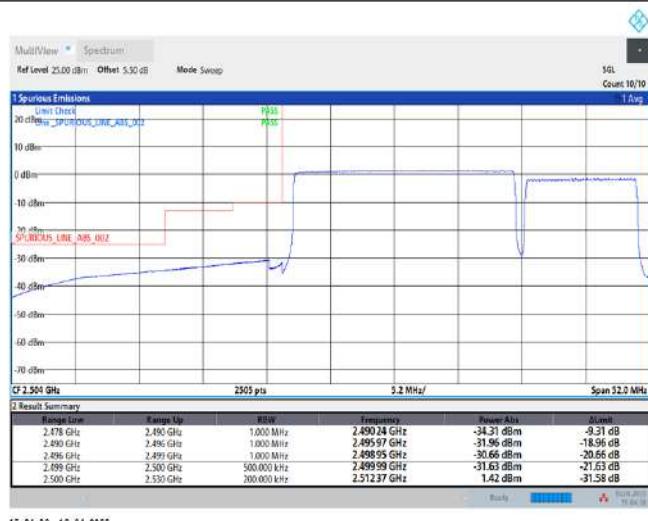
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7-7-20MHz-10MHz-QPSK-QPSK-20850-20994-1RB#0-0RB#0



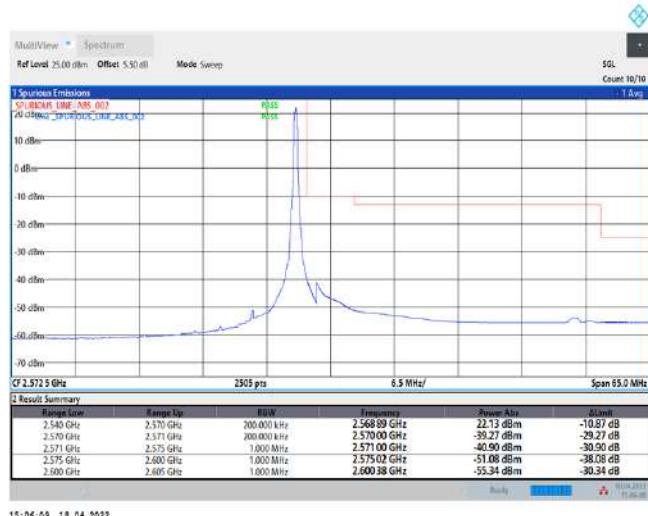
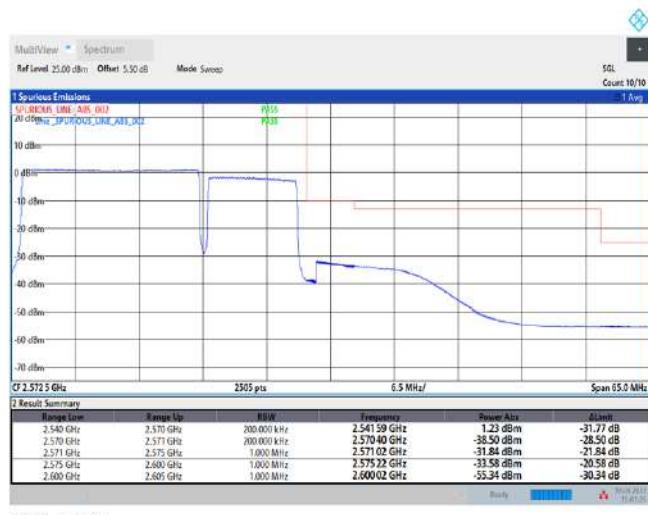
7-7-20MHz-10MHz-QPSK-QPSK-20850-20994-100RB#0-50RB#0



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**7-7-20MHz-10MHz-QPSK-QPSK-21251-21395-0RB#0-1RB#49****7-7-20MHz-10MHz-QPSK-QPSK-21251-21395-100RB#0-50RB#0**

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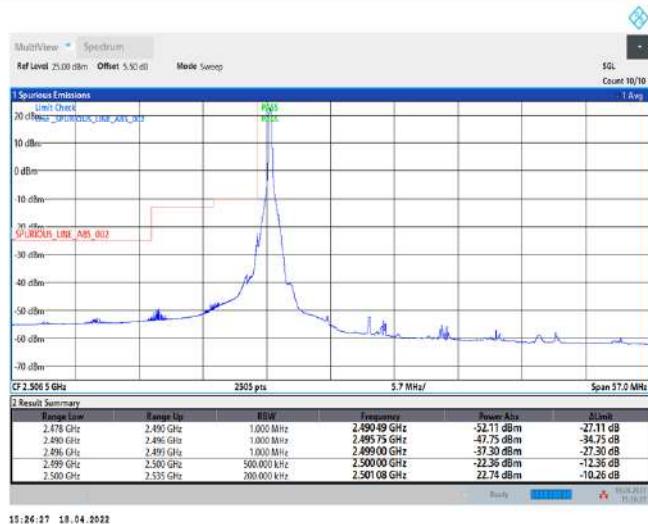
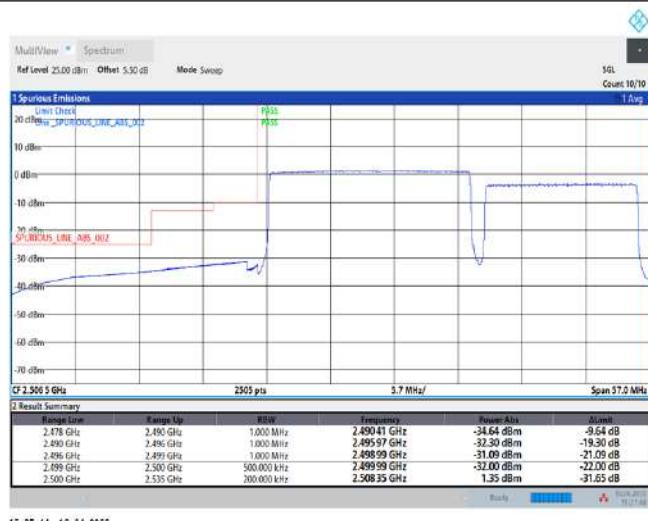


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**7-7-20MHz-15MHz-QPSK-QPSK-20850-21021-1RB#0-0RB#0****7-7-20MHz-15MHz-QPSK-QPSK-20850-21021-100RB#0-75RB#0**

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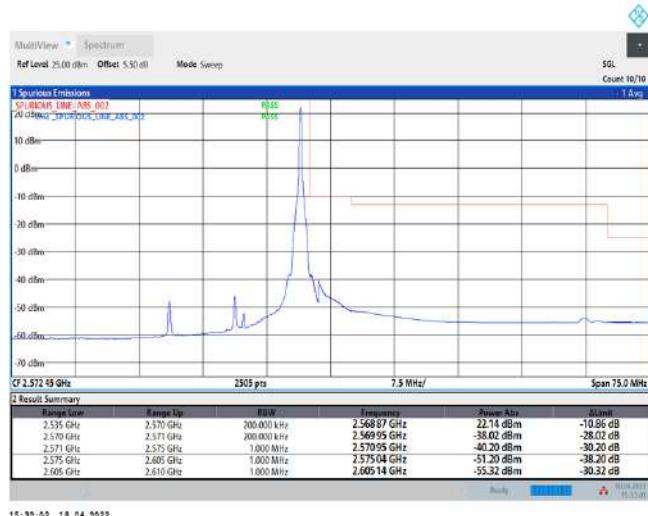
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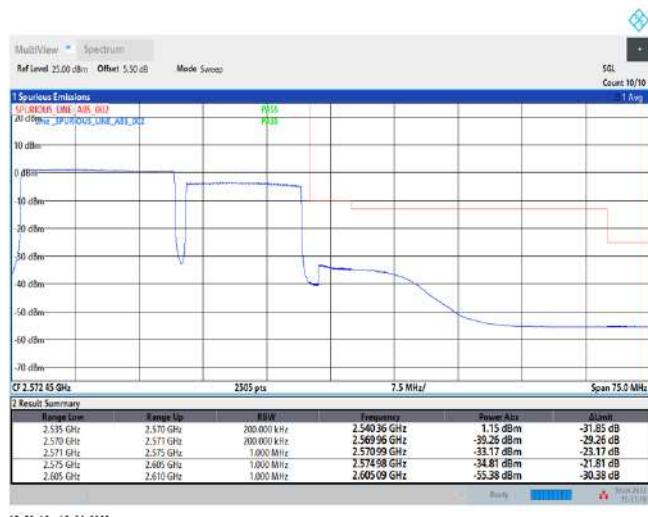
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### 7-7-20MHz-15MHz-QPSK-QPSK-21201-21372-0RB#0-1RB#74



### 7-7-20MHz-15MHz-QPSK-QPSK-21201-21372-100RB#0-75RB#0



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**7-7-20MHz-20MHz-QPSK-QPSK-20850-21048-1RB#0-0RB#0**

15:58:37 18.04.2022

**7-7-20MHz-20MHz-QPSK-QPSK-20850-21048-100RB#0-100RB#0**

15:59:54 18.04.2022

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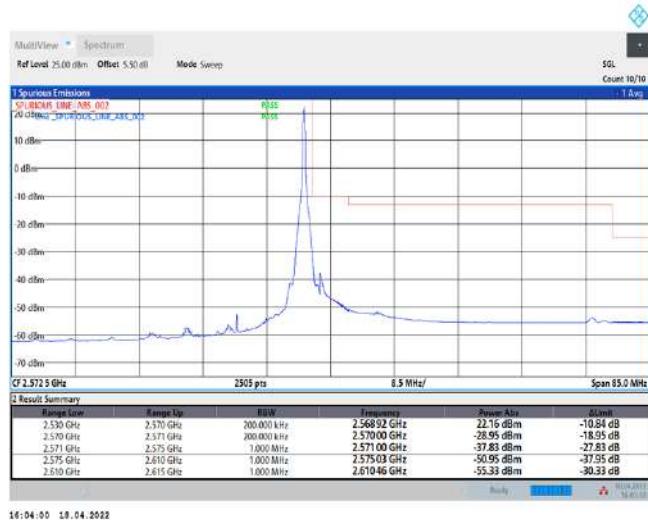
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**7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-0RB#0-1RB#99****7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-100RB#0-100RB#0**

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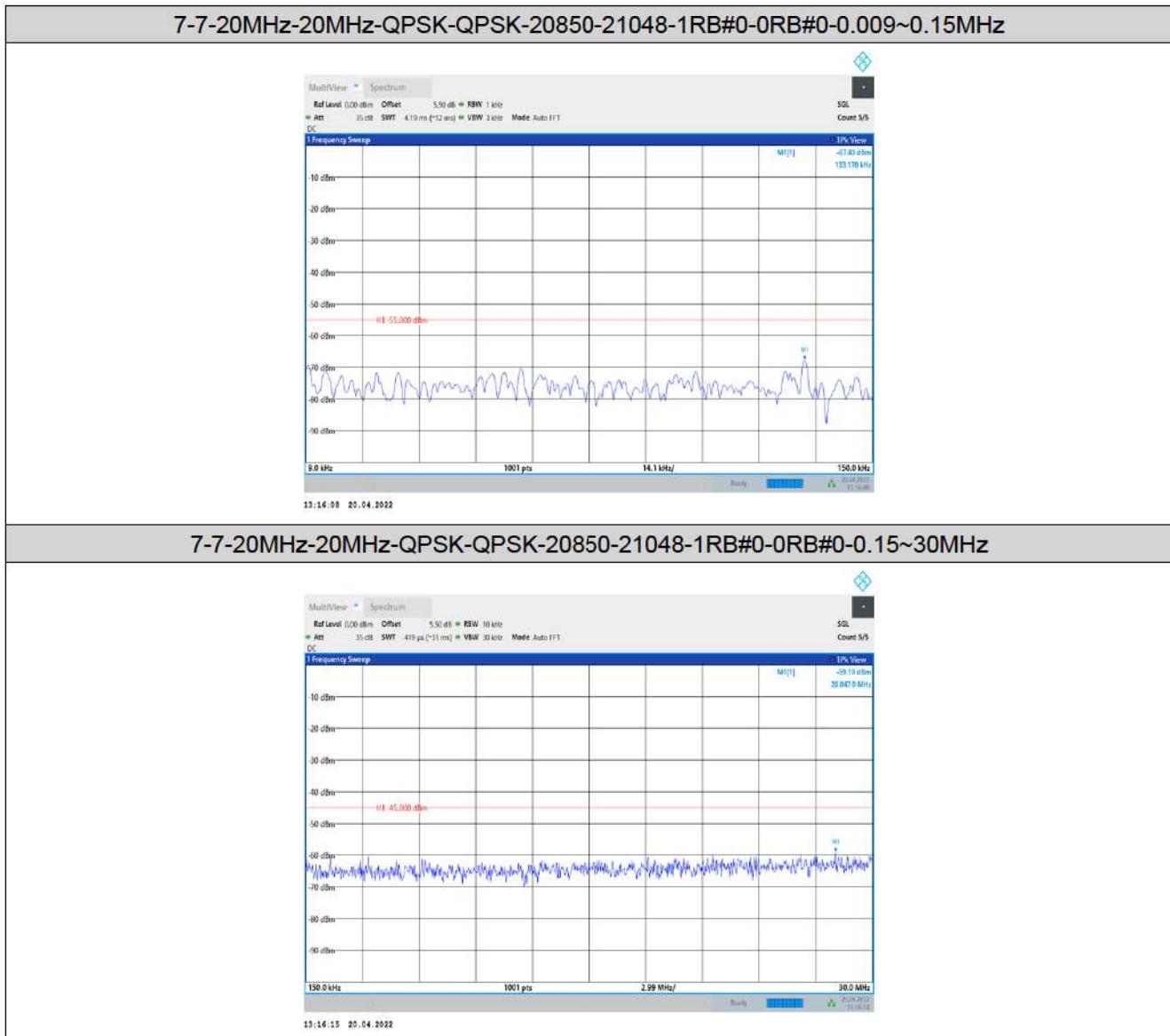
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## Conducted Spurious Emission

### Test Graphs



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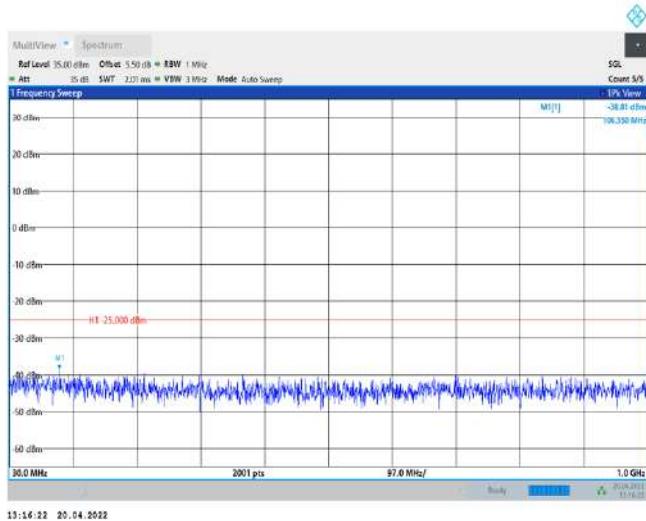


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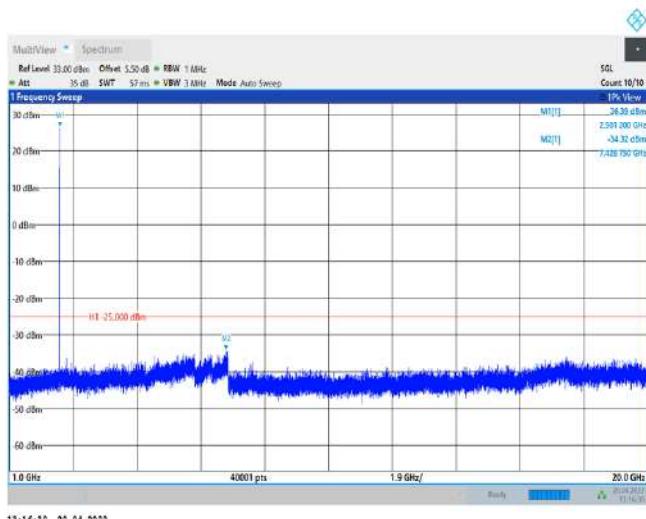
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**7-7-20MHz-20MHz-QPSK-QPSK-20850-21048-1RB#0-0RB#0-30~1000MHz**

13:16:22 20.04.2022

**7-7-20MHz-20MHz-QPSK-QPSK-20850-21048-1RB#0-0RB#0-1000~20000MHz**

13:16:50 20.04.2022

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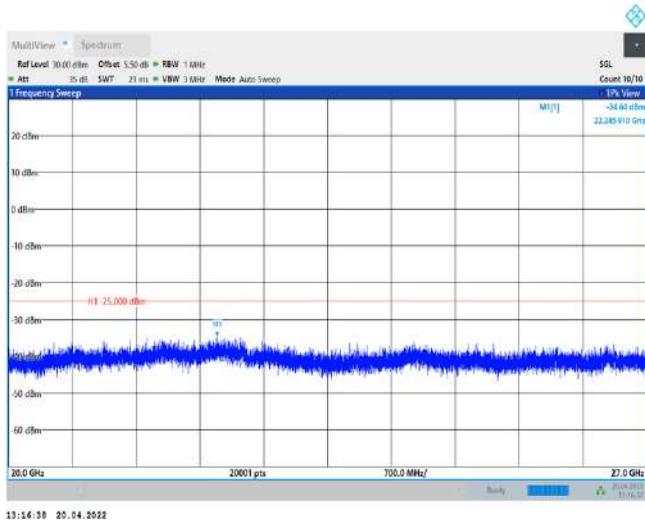


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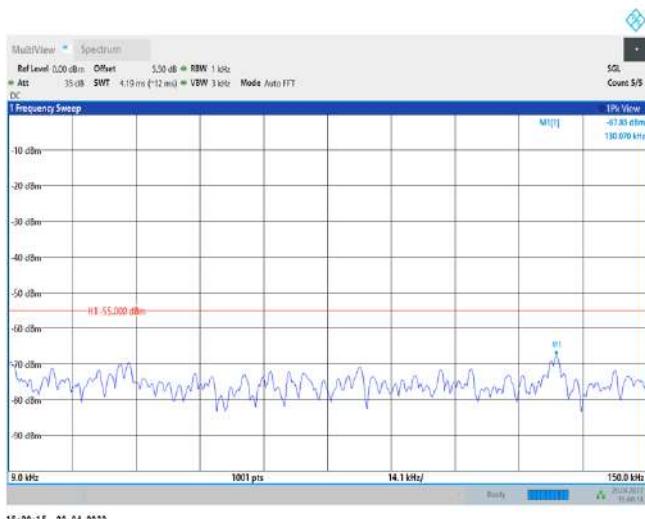
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**7-7-20MHz-20MHz-QPSK-QPSK-20850-21048-1RB#0-0RB#0-20000~27000MHz**

13:16:38 20.04.2022

**7-7-20MHz-20MHz-QPSK-QPSK-21001-21199-1RB#0-0RB#0-0.009~0.15MHz**

15:00:15 20.04.2022

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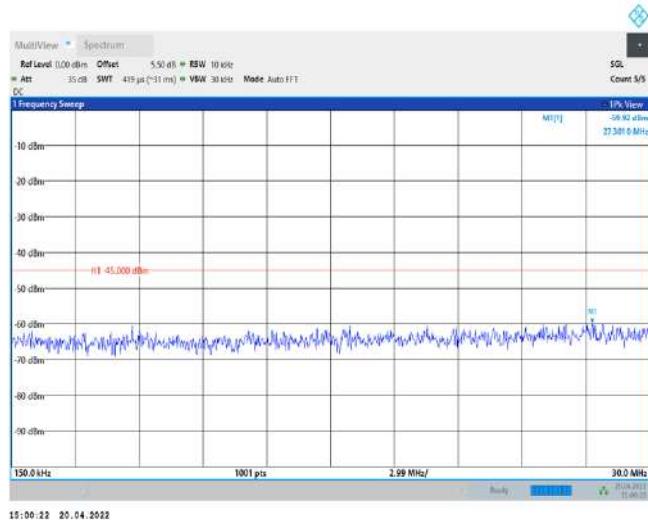
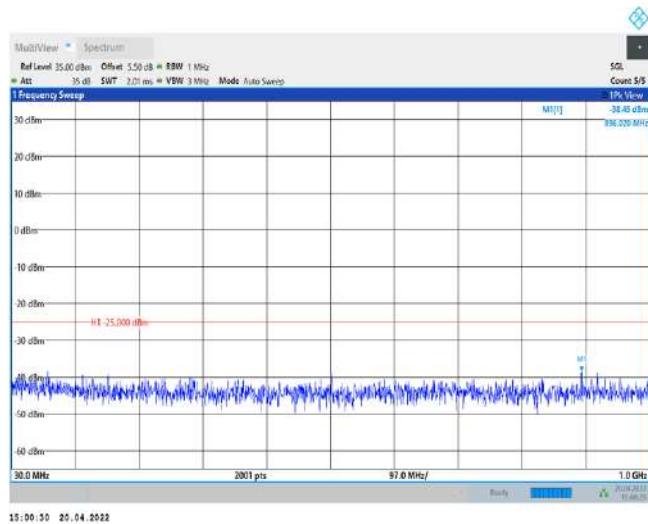


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**7-7-20MHz-20MHz-QPSK-QPSK-21001-21199-1RB#0-0RB#0-0.15~30MHz****7-7-20MHz-20MHz-QPSK-QPSK-21001-21199-1RB#0-0RB#0-30~1000MHz**

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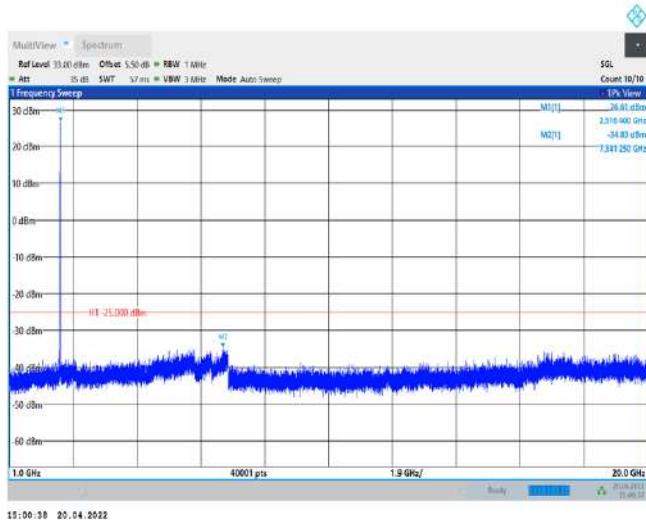
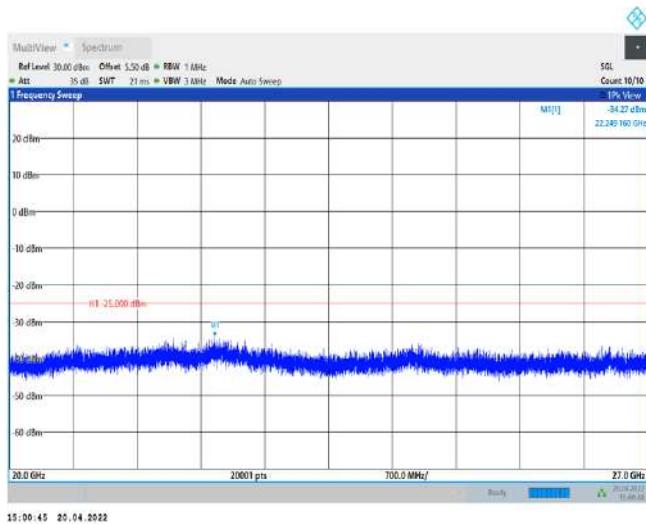


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**7-7-20MHz-20MHz-QPSK-QPSK-21001-21199-1RB#0-0RB#0-1000~20000MHz****7-7-20MHz-20MHz-QPSK-QPSK-21001-21199-1RB#0-0RB#0-20000~27000MHz**

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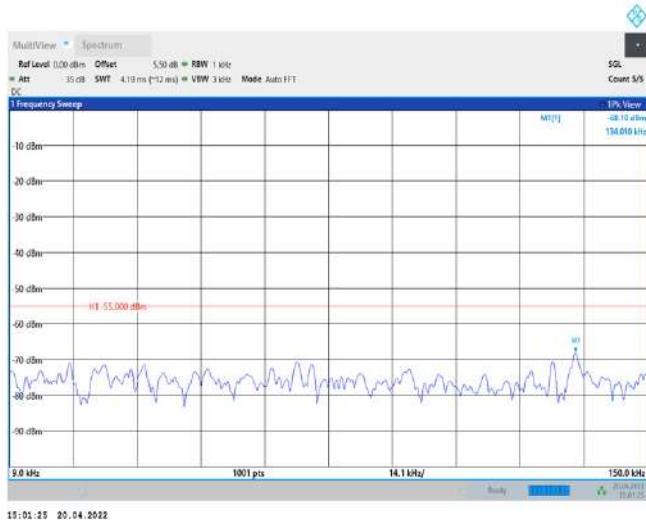
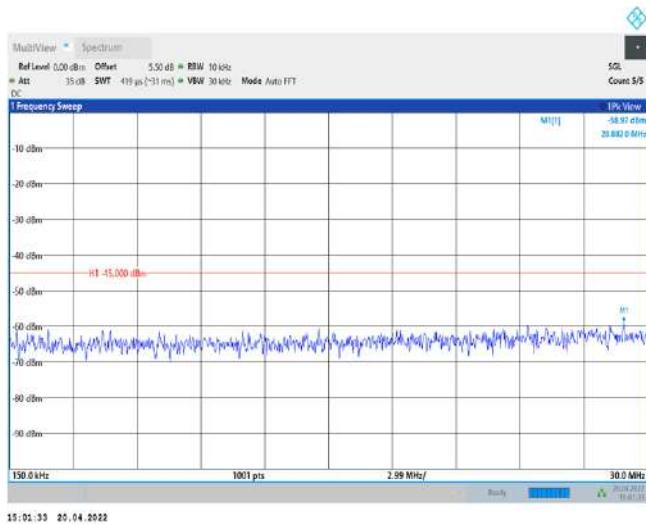


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**7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-1RB#0-0RB#0-0.009~0.15MHz****7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-1RB#0-0RB#0-0.15~30MHz**

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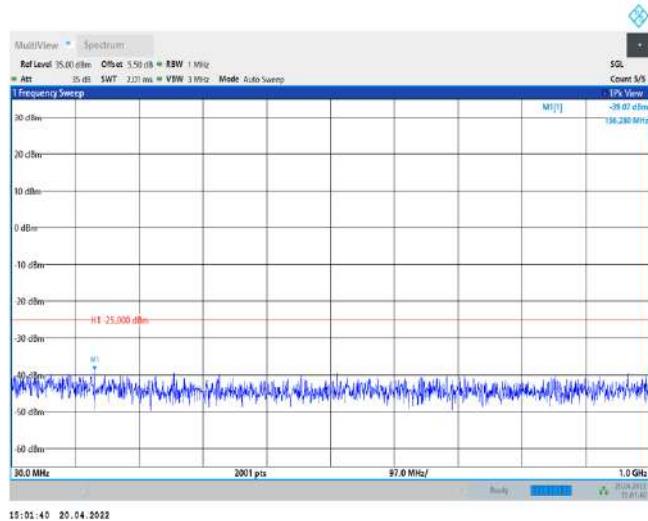
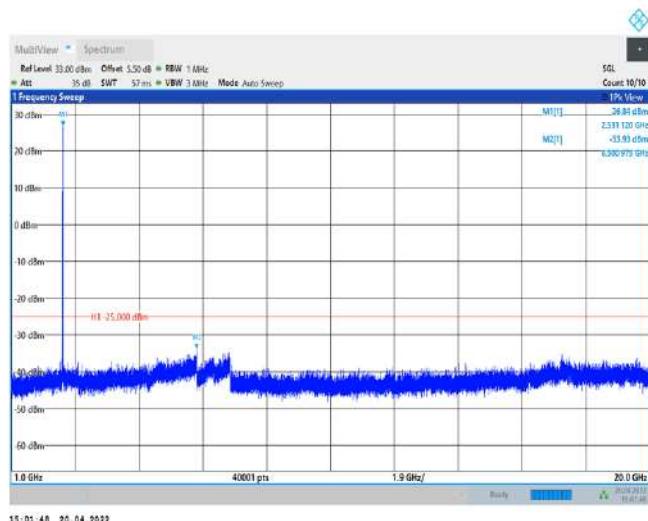


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**7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-1RB#0-0RB#0-30~1000MHz****7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-1RB#0-0RB#0-1000~20000MHz**

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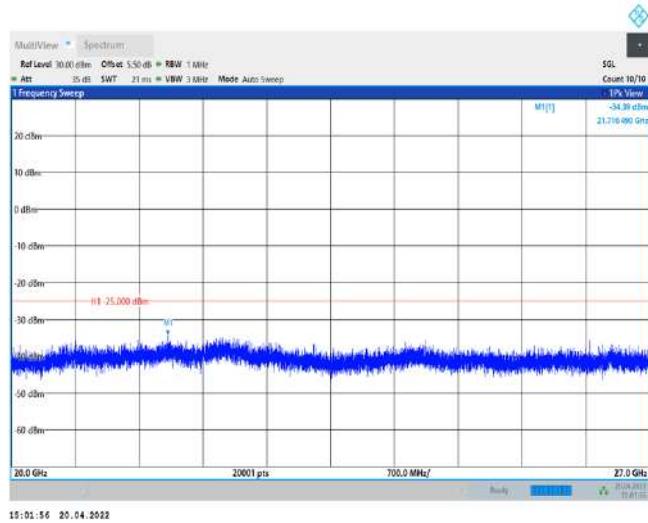


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**7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-1RB#0-0RB#0-20000~27000MHz**

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## Field Strength of Spurious Radiation

Test Band = UL CA Band 7C\_ TM1

Test Channel = Low Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5002.18	49.80	-107.58	-57.78	-25.00	32.78	263	360	Horizontal
2	7503.27	49.27	-100.34	-51.07	-25.00	26.07	251	198	Horizontal
3	10004.36	45.02	-93.89	-48.87	-25.00	23.87	174	175	Horizontal
4	12505.45	44.43	-91.38	-46.95	-25.00	21.95	262	3	Horizontal
5	15006.54	42.92	-90.07	-47.15	-25.00	22.15	284	359	Horizontal
6	17507.63	39.91	-86.50	-46.59	-25.00	21.59	176	139	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5002.18	50.48	-107.58	-57.10	-25.00	32.10	263	312	Vertical
2	7503.27	48.89	-100.34	-51.45	-25.00	26.45	241	278	Vertical
3	10004.36	44.83	-93.89	-49.06	-25.00	24.06	176	360	Vertical
4	12505.45	45.35	-91.38	-46.03	-25.00	21.03	294	150	Vertical
5	15006.54	42.62	-90.07	-47.45	-25.00	22.45	186	255	Vertical
6	17507.63	39.75	-86.50	-46.75	-25.00	21.75	124	278	Vertical

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**Test Band = UL CA Band 7C\_ TM1**

**Test Channel = Mid Channel**

Final Data List									
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5032.38	50.66	-107.38	-56.72	-25.00	31.72	263	242	Horizontal
2	7548.27	47.97	-100.09	-52.12	-25.00	27.12	241	356	Horizontal
3	10064.76	44.29	-93.62	-49.33	-25.00	24.33	176	11	Horizontal
4	12580.95	44.18	-90.74	-46.56	-25.00	21.56	251	360	Horizontal
5	15097.14	42.97	-90.54	-47.57	-25.00	22.57	148	56	Horizontal
6	17613.33	41.09	-85.88	-44.79	-25.00	19.79	162	138	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5032.38	51.17	-107.38	-56.21	-25.00	31.21	263	3	Vertical
2	7548.27	49.14	-100.09	-50.95	-25.00	25.95	251	11	Vertical
3	10064.76	43.95	-93.62	-49.67	-25.00	24.67	174	22	Vertical
4	12580.95	43.35	-90.74	-47.39	-25.00	22.39	162	11	Vertical
5	15097.14	42.50	-90.54	-48.04	-25.00	23.04	284	3	Vertical
6	17613.33	41.14	-85.88	-44.74	-25.00	19.74	166	128	Vertical

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**Test Band = UL CA Band 7C\_ TM1**

**Test Channel = High Channel**

Final Data List									
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5062.58	50.14	-107.19	-57.05	-25.00	32.05	263	360	Horizontal
2	7593.87	49.50	-99.85	-50.35	-25.00	25.35	251	277	Horizontal
3	10125.16	45.40	-93.36	-47.96	-25.00	22.96	174	58	Horizontal
4	12656.45	44.05	-90.88	-46.83	-25.00	21.83	262	356	Horizontal
5	15187.74	42.40	-89.00	-46.60	-25.00	21.60	254	4	Horizontal
6	17719.03	40.68	-84.72	-44.04	-25.00	19.04	178	82	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5062.58	50.44	-107.19	-56.75	-25.00	31.75	263	113	Vertical
2	7593.87	49.21	-99.85	-50.64	-25.00	25.64	251	360	Vertical
3	10125.16	45.03	-93.36	-48.33	-25.00	23.33	174	3	Vertical
4	12656.45	43.69	-90.88	-47.19	-25.00	22.19	264	359	Vertical
5	15187.74	42.53	-89.00	-46.47	-25.00	21.47	188	11	Vertical
6	17719.03	40.90	-84.72	-43.82	-25.00	18.82	264	148	Vertical

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## Frequency Stability

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	VH	NT	47.60	0.018851	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	VL	NT	57.20	0.022653	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	VN	NT	50.00	0.019801	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	-30	50.70	0.020078	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	-20	49.60	0.019643	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	-10	48.50	0.019207	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	0	53.40	0.021148	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	10	41.10	0.016277	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	20	52.20	0.020672	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	30	46.90	0.018574	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	40	65.80	0.026058	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	50	37.50	0.014851	PASS

---End of Attachment---

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