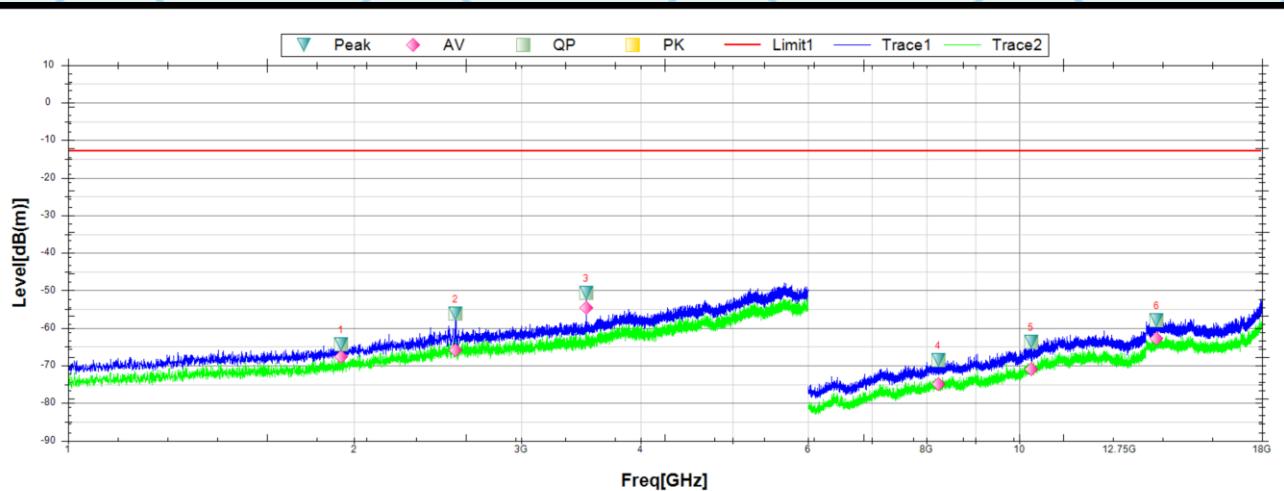




Report No.: WSCT-ANAB-R&E240700031A-RF

Vertical:



Suspected Data List

NO.	Freq. [MHz]	Reading [dB(m)]	Factor [dB]	Level [dB(m)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1936.8750	-64.43	2.87	-67.3	-13	-51.43	197	Vertical	PK	Pass
2	2556.2500	-56.16	7.54	-63.7	-13	-43.16	0	Vertical	PK	Pass
3	3506.8750	-50.76	10.57	-61.33	-13	-37.76	0	Vertical	PK	Pass
4	8221.5000	-68.66	37.09	-105.75	-13	-55.66	360.1	Vertical	PK	Pass
5	10291.5000	-63.77	38.51	-102.28	-13	-50.77	10.6	Vertical	PK	Pass
6	13954.5000	-58.02	41.38	-99.4	-13	-45.02	3.1	Vertical	PK	Pass



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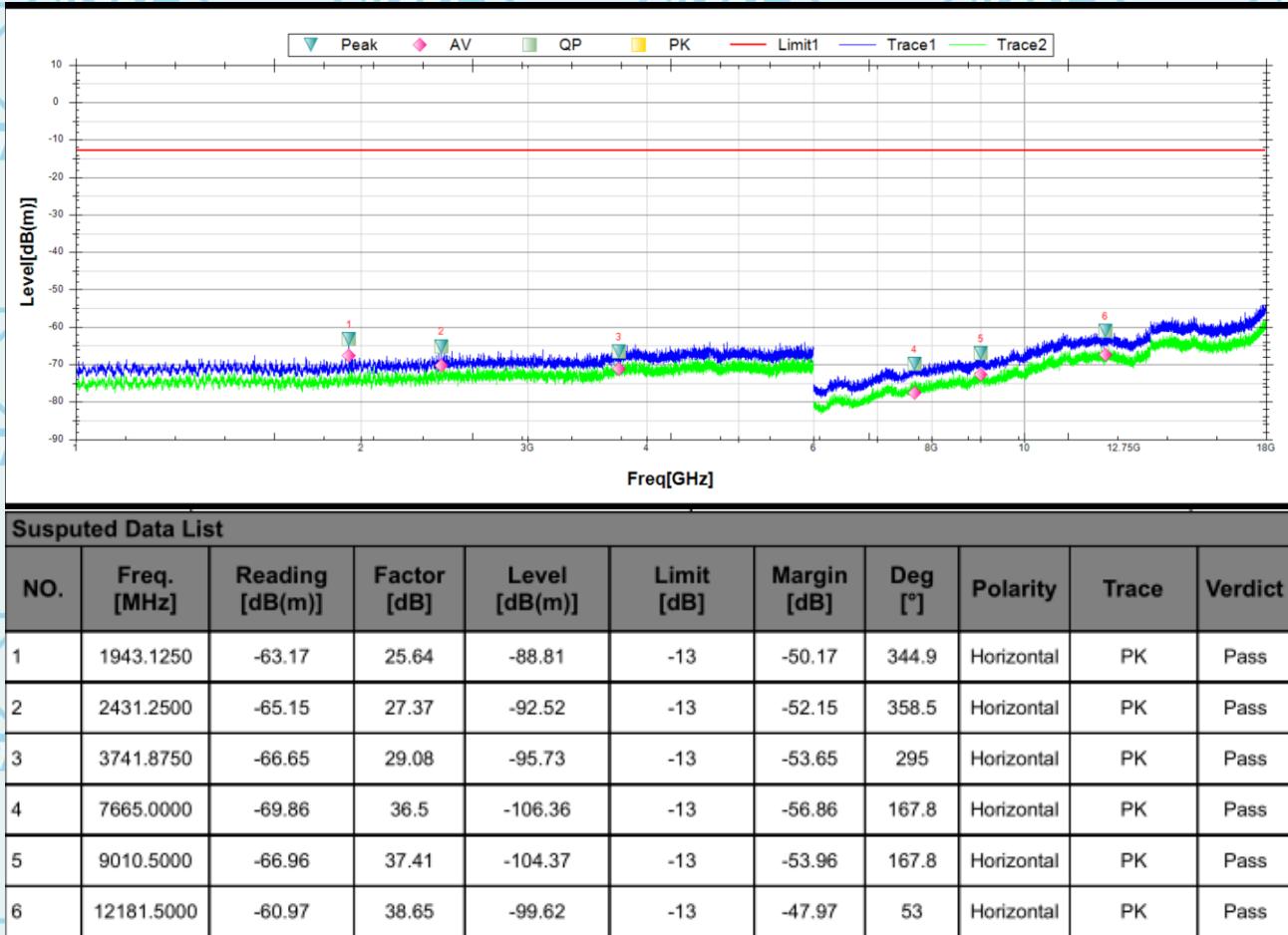
Report No.: WSCT-ANAB-R&E240700031A-RF

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Band 12:

Horizontal:



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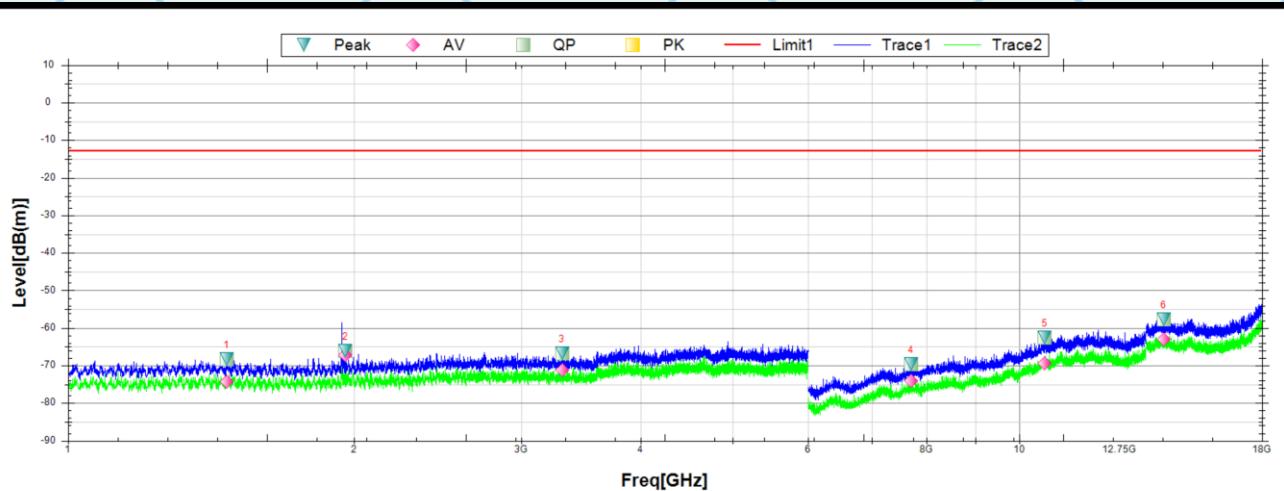
ADD:Building A-B, Baolian industrial Park, No. 58 Tangtou Avenue, Shiyuan Street, Bao'an District Shenzhen, Guangdong China
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Vertical:



Suspected Data List

NO.	Freq. [MHz]	Reading [dB(m)]	Factor [dB]	Level [dB(m)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1468.1250	-68.29	25.03	-93.32	-13	-55.29	79.8	Vertical	PK	Pass
2	1958.7500	-66.13	25.71	-91.84	-13	-53.13	-0.1	Vertical	PK	Pass
3	3307.5000	-66.81	28.38	-95.19	-13	-53.81	159.9	Vertical	PK	Pass
4	7699.5000	-69.77	36.55	-106.32	-13	-56.77	14.2	Vertical	PK	Pass
5	10644.0000	-62.62	39	-101.62	-13	-49.62	71	Vertical	PK	Pass
6	14190.0000	-57.73	41.25	-98.98	-13	-44.73	279	Vertical	PK	Pass



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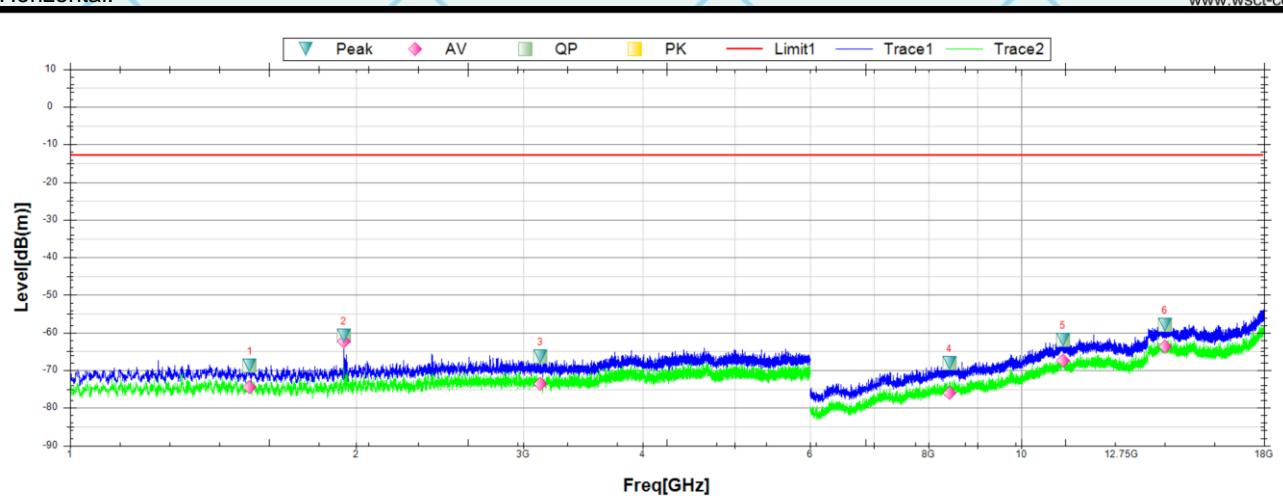
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Band 17:

Horizontal:

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Suspected Data List

NO.	Freq. [MHz]	Reading [dB(m)]	Factor [dB]	Level [dB(m)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1546.2500	-68.74	24.95	-93.69	-13	-55.74	195.8	Horizontal	PK	Pass
2	1941.2500	-60.82	25.64	-86.46	-13	-47.82	0	Horizontal	PK	Pass
3	3124.3750	-66.29	28.27	-94.56	-13	-53.29	344.2	Horizontal	PK	Pass
4	8404.5000	-68.07	37.16	-105.23	-13	-55.07	240.8	Horizontal	PK	Pass
5	11064.0000	-61.9	39.44	-101.34	-13	-48.9	349.2	Horizontal	PK	Pass
6	14163.0000	-57.98	41.29	-99.27	-13	-44.98	7	Horizontal	PK	Pass



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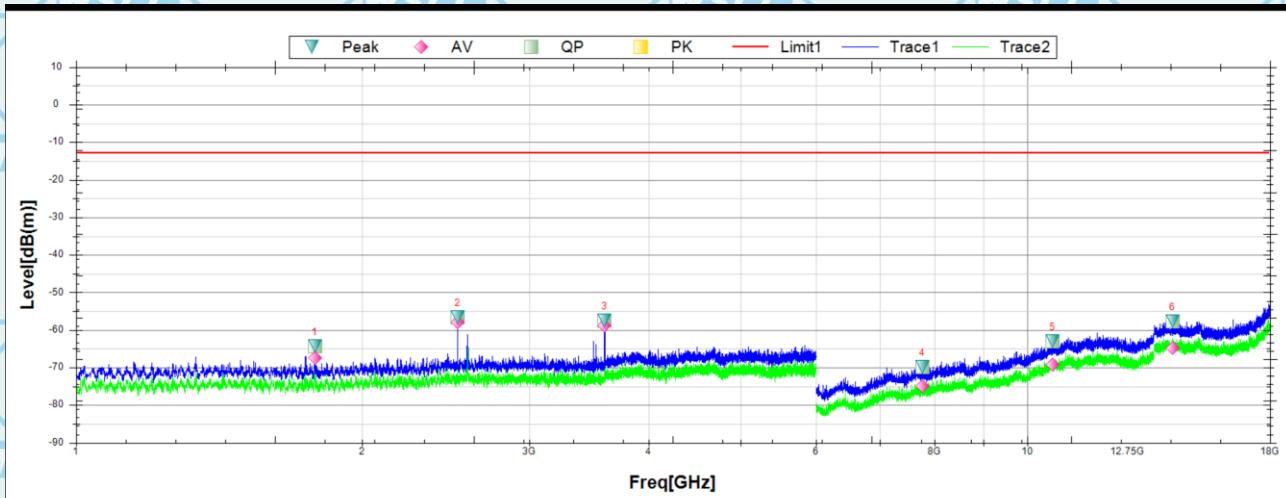


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Vertical:



Suspected Data List

NO.	Freq. [MHz]	Reading [dB(m)]	Factor [dB]	Level [dB(m)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1783.1250	-64.28	24.99	-89.27	-13	-51.28	51.1	Vertical	PK	Pass
2	2520.6250	-56.55	27.62	-84.17	-13	-43.55	265.1	Vertical	PK	Pass
3	3597.5000	-57.62	28.73	-86.35	-13	-44.62	118.1	Vertical	PK	Pass
4	7759.5000	-69.85	36.64	-106.49	-13	-56.85	80.6	Vertical	PK	Pass
5	10636.5000	-63.09	38.99	-102.08	-13	-50.09	109.3	Vertical	PK	Pass
6	14214.0000	-57.68	41.22	-98.9	-13	-44.68	303	Vertical	PK	Pass



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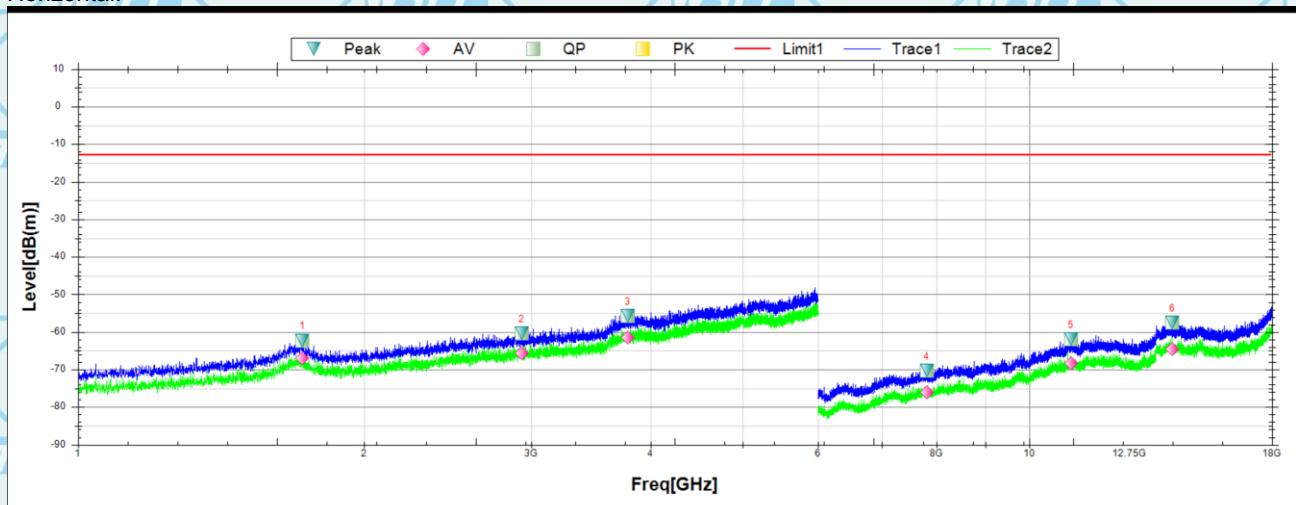
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Band 38:

Horizontal:



Suspected Data List

NO.	Freq. [MHz]	Reading [dB(m)]	Factor [dB]	Level [dB(m)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1722.5000	-62.28	4.61	-66.89	-13	-49.28	292.6	Horizontal	PK	Pass
2	2928.7500	-60.48	8.36	-68.84	-13	-47.48	314.1	Horizontal	PK	Pass
3	3787.5000	-55.71	12.57	-68.28	-13	-42.71	220.8	Horizontal	PK	Pass
4	7806.0000	-70.29	36.71	-107	-13	-57.29	278.9	Horizontal	PK	Pass
5	11070.0000	-61.98	39.44	-101.42	-13	-48.98	79.3	Horizontal	PK	Pass
6	14151.0000	-57.44	41.3	-98.74	-13	-44.44	146.2	Horizontal	PK	Pass



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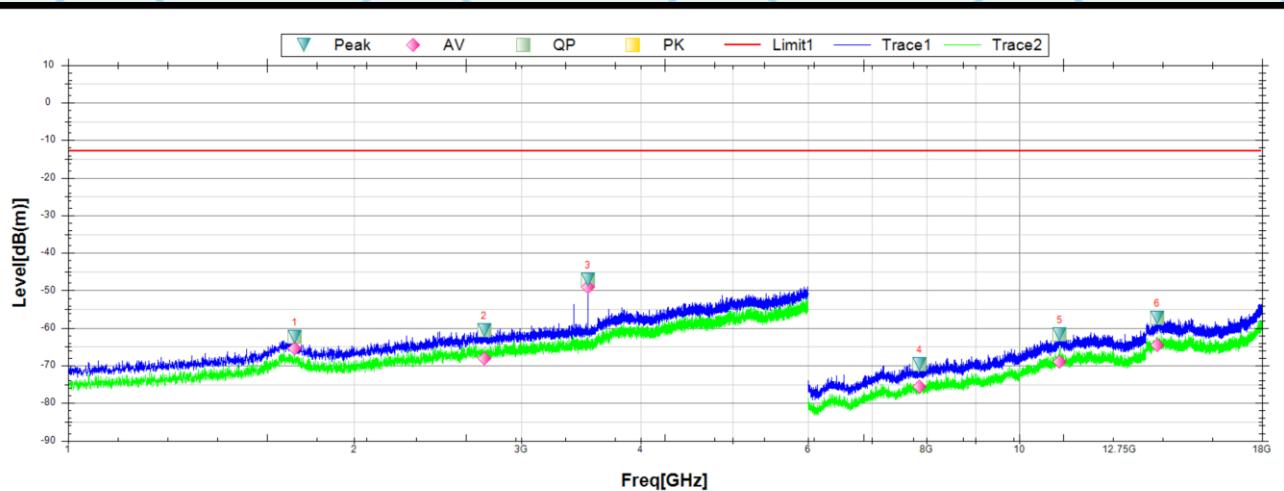
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Vertical:



Suspected Data List

NO.	Freq. [MHz]	Reading [dB(m)]	Factor [dB]	Level [dB(m)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1731.8750	-62.47	4.37	-66.84	-13	-49.47	93.8	Vertical	PK	Pass
2	2739.3750	-60.65	7.64	-68.29	-13	-47.65	1.4	Vertical	PK	Pass
3	3523.1250	-47.12	10.65	-57.77	-13	-34.12	0.5	Vertical	PK	Pass
4	7861.5000	-69.72	36.79	-106.51	-13	-56.72	259.1	Vertical	PK	Pass
5	11038.5000	-61.78	39.47	-101.25	-13	-48.78	143.2	Vertical	PK	Pass
6	13966.5000	-57.3	41.41	-98.71	-13	-44.3	48.7	Vertical	PK	Pass



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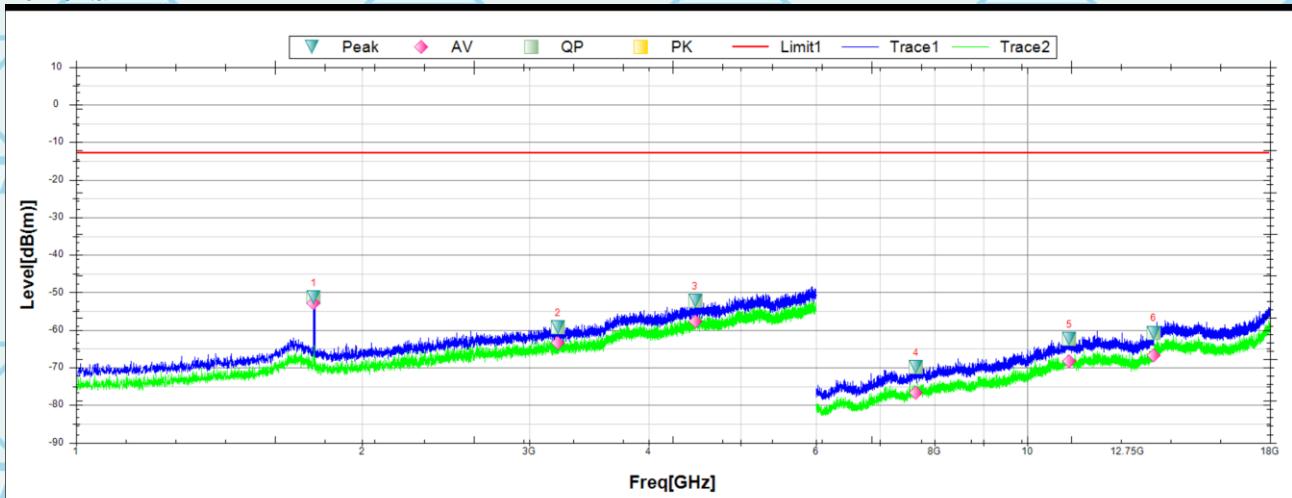
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Horizontal:

Suspected Data List

NO.	Freq. [MHz]	Reading [dB(m)]	Factor [dB]	Level [dB(m)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1778.7500	-51.34	3.04	-54.38	-13	-38.34	140.4	Horizontal	PK	Pass
2	3213.1250	-59.35	9.53	-68.88	-13	-46.35	346	Horizontal	PK	Pass
3	4478.7500	-52.29	15.72	-68.01	-13	-39.29	126	Horizontal	PK	Pass
4	7645.5000	-69.86	36.47	-106.33	-13	-56.86	72.6	Horizontal	PK	Pass
5	11079.0000	-62.32	39.43	-101.75	-13	-49.32	-0.1	Horizontal	PK	Pass
6	13581.0000	-60.73	40.41	-101.14	-13	-47.73	225.7	Horizontal	PK	Pass



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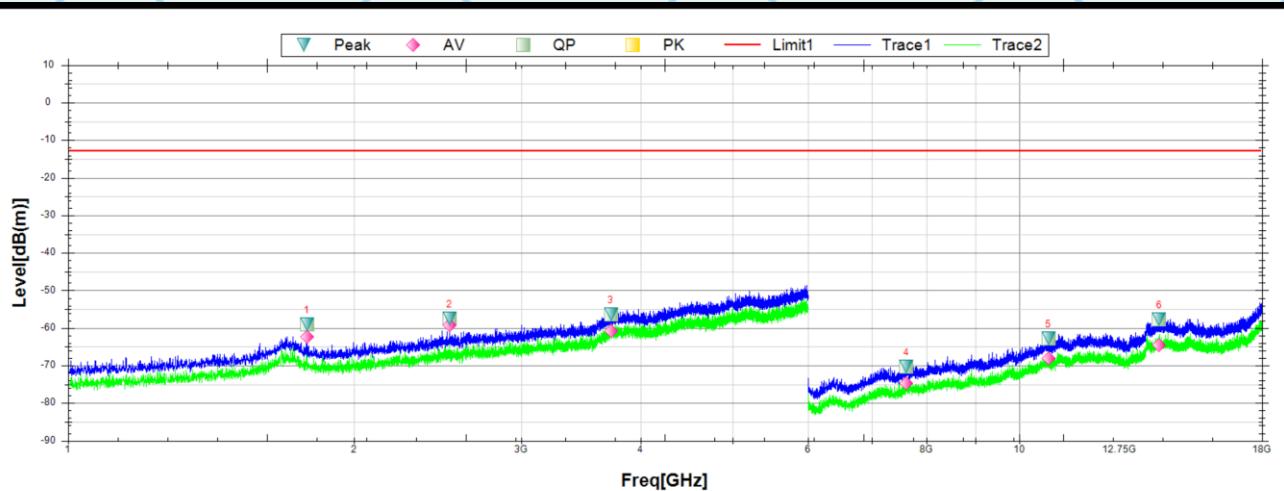
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Vertical:



Suspected Data List

NO.	Freq. [MHz]	Reading [dB(m)]	Factor [dB]	Level [dB(m)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1783.1250	-59.13	2.97	-62.1	-13	-46.13	360.1	Vertical	PK	Pass
2	2520.0000	-57.54	6.75	-64.29	-13	-44.54	65	Vertical	PK	Pass
3	3722.5000	-56.37	12.36	-68.73	-13	-43.37	209.7	Vertical	PK	Pass
4	7615.5000	-70.29	36.42	-106.71	-13	-57.29	353	Vertical	PK	Pass
5	10735.5000	-62.85	39.13	-101.98	-13	-49.85	26	Vertical	PK	Pass
6	14043.0000	-57.71	41.44	-99.15	-13	-44.71	279.4	Vertical	PK	Pass



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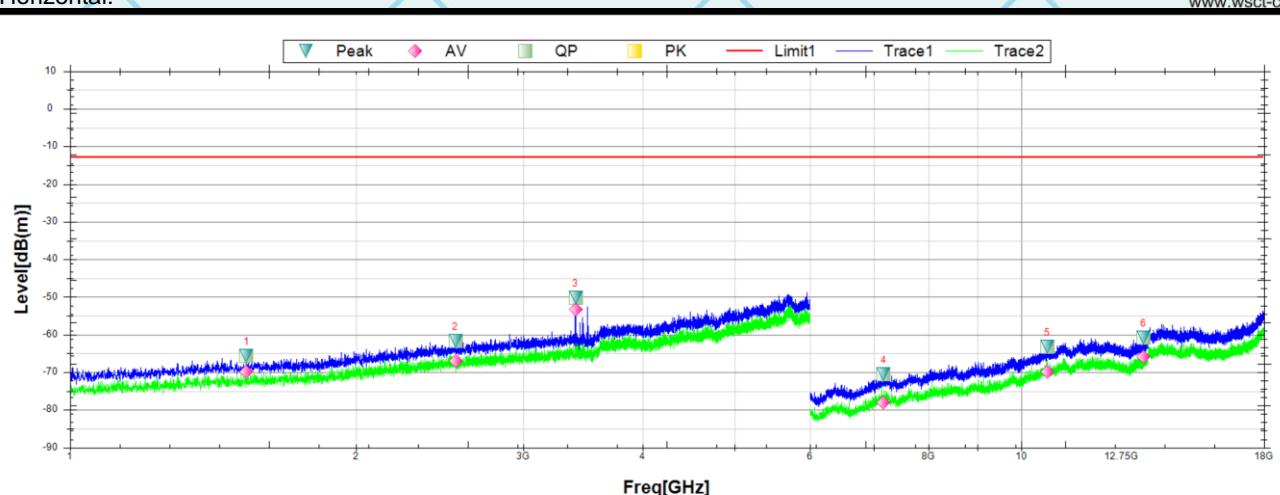


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Band 42(3450-3550Mhz):

Horizontal:

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NO.	Freq. [MHz]	Reading [dB(m)]	Factor [dB]	Level [dB(m)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1533.7500	-65.62	-0.24	-65.38	-13	-52.62	353.6	Horizontal	PK	Pass
2	2543.1250	-61.74	5.74	-67.48	-13	-48.74	165.4	Horizontal	PK	Pass
3	3401.2500	-50.31	9.16	-59.47	-13	-37.31	220.3	Horizontal	PK	Pass
4	7171.5000	-70.48	35.76	-106.24	-13	-57.48	118	Horizontal	PK	Pass
5	10659.0000	-63.24	39.02	-102.26	-13	-50.24	320.1	Horizontal	PK	Pass
6	13450.5000	-60.93	40.07	-101	-13	-47.93	-0.1	Horizontal	PK	Pass



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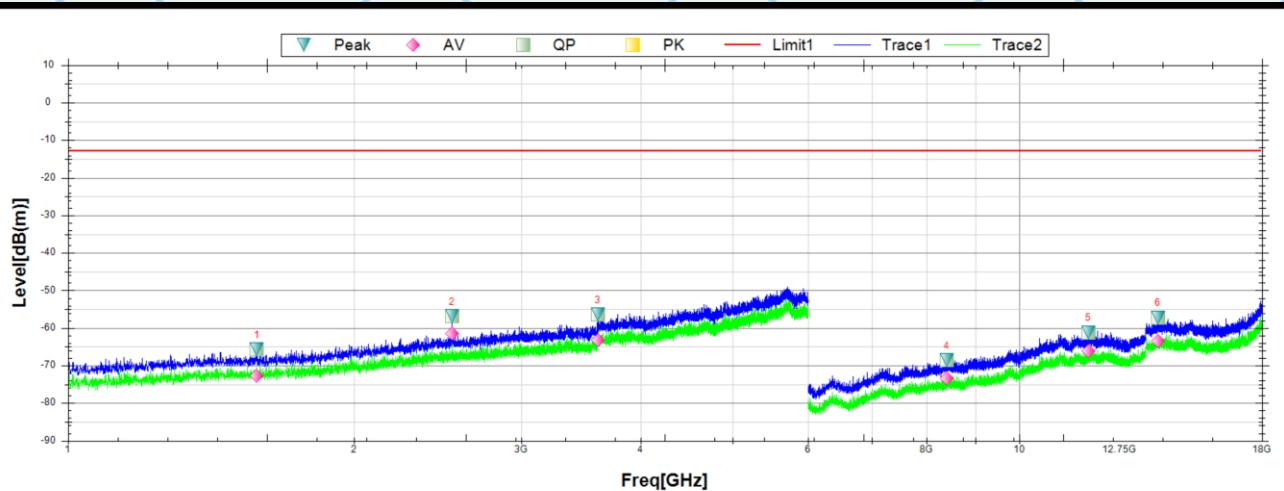


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Suspected Data List

NO.	Freq. [MHz]	Reading [dB(m)]	Factor [dB]	Level [dB(m)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1580.6250	-65.73	-0.01	-65.72	-13	-52.73	71	Vertical	PK	Pass
2	2535.0000	-56.94	5.71	-62.65	-13	-43.94	360.1	Vertical	PK	Pass
3	3608.1250	-56.49	10.51	-67	-13	-43.49	19.1	Vertical	PK	Pass
4	8395.5000	-68.62	37.16	-105.78	-13	-55.62	236.5	Vertical	PK	Pass
5	11826.0000	-61.16	38.76	-99.92	-13	-48.16	295	Vertical	PK	Pass
6	13993.5000	-57.19	41.48	-98.67	-13	-44.19	353.8	Vertical	PK	Pass



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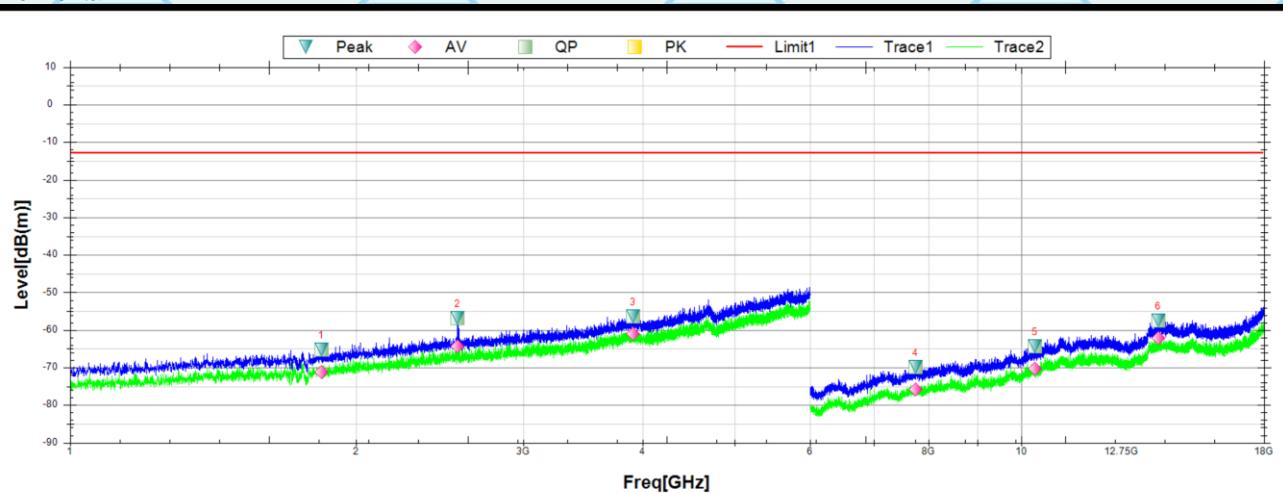
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Horizontal:

Suspected Data List

NO.	Freq. [MHz]	Reading [dB(m)]	Factor	Level [dB]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1837.5000	-65.34	1.51	-66.85	-13	-52.34	136.8	Horizontal	PK	Pass
2	2557.5000	-56.88	6.15	-63.03	-13	-43.88	201.4	Horizontal	PK	Pass
3	3910.0000	-56.34	11.85	-68.19	-13	-43.34	126.1	Horizontal	PK	Pass
4	7744.5000	-69.95	36.62	-106.57	-13	-56.95	129.9	Horizontal	PK	Pass
5	10344.0000	-64.37	38.58	-102.95	-13	-51.37	359.2	Horizontal	PK	Pass
6	13936.5000	-57.5	41.33	-98.83	-13	-44.5	125.2	Horizontal	PK	Pass



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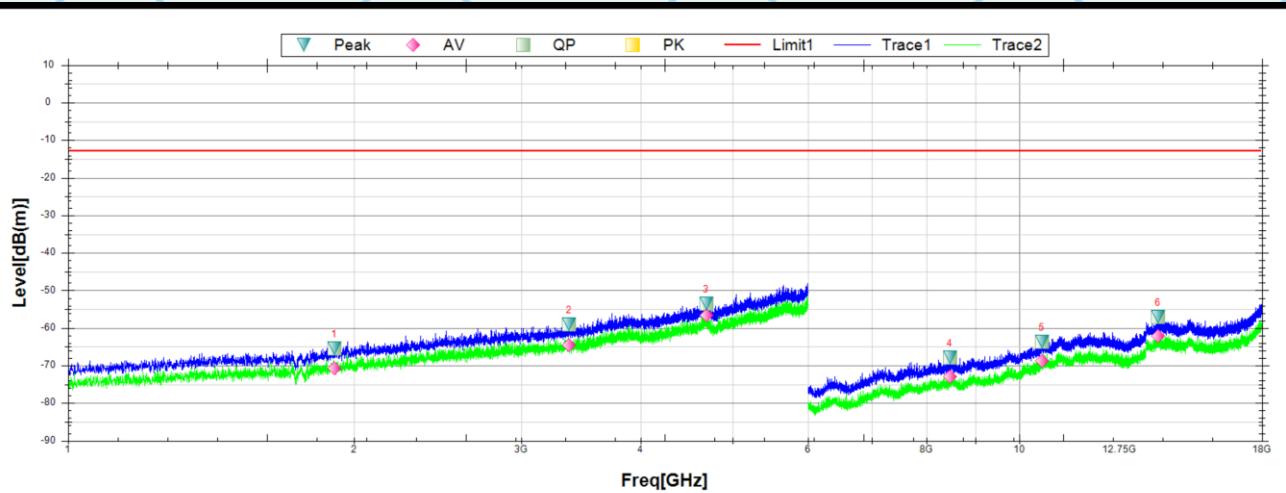


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Vertical:



Suspected Data List

NO.	Freq. [MHz]	Reading [dB(m)]	Factor [dB]	Level [dB(m)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1905.6250	-65.39	1.96	-67.35	-13	-52.39	261.5	Vertical	PK	Pass
2	3366.2500	-59.11	9.51	-68.62	-13	-46.11	355.7	Vertical	PK	Pass
3	4690.0000	-53.48	16.02	-69.5	-13	-40.48	73.8	Vertical	PK	Pass
4	8455.5000	-67.94	37.18	-105.12	-13	-54.94	259.8	Vertical	PK	Pass
5	10567.5000	-63.67	38.89	-102.56	-13	-50.67	171.4	Vertical	PK	Pass
6	13996.5000	-57.14	41.49	-98.63	-13	-44.14	236	Vertical	PK	Pass



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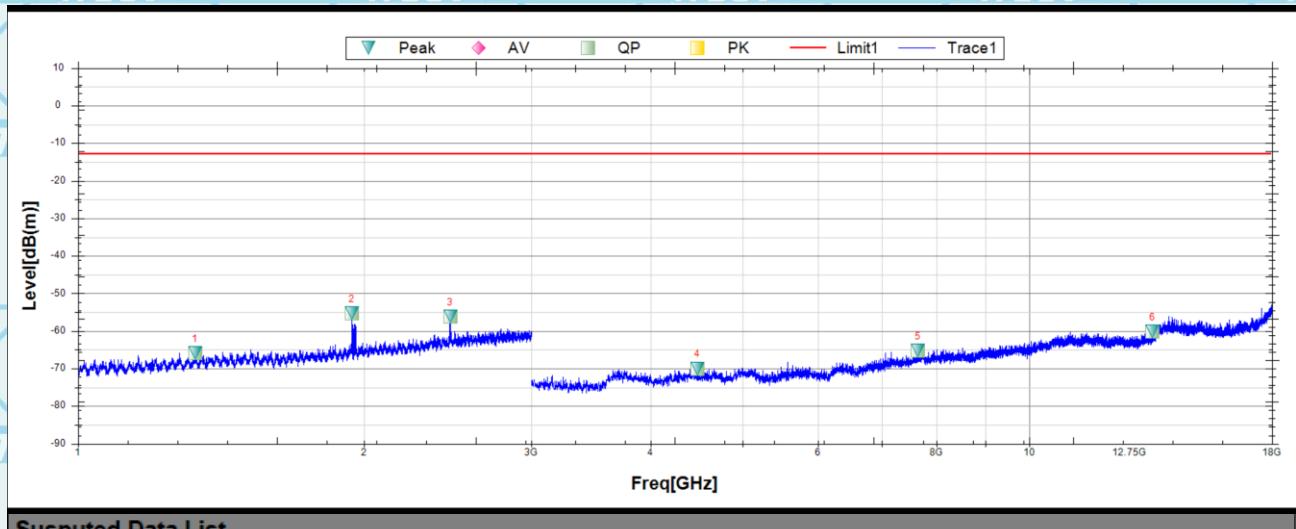
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NR Bands

n5:

Horizontal:



Suspected Data List

NO.	Freq. [MHz]	Reading [dB(m)]	Factor [dB]	Level [dB]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1327.7500	-65.94	24.85	-90.79	-13	-52.94	267	Horizontal	PK	Pass
2	1941.5000	-55.41	25.64	-81.05	-13	-42.41	49.5	Horizontal	PK	Pass
3	2463.7500	-56.18	27.48	-83.66	-13	-43.18	360.1	Horizontal	PK	Pass
4	4479.3750	-70.01	30.56	-100.57	-13	-57.01	287.8	Horizontal	PK	Pass
5	7642.5000	-65.33	7.95	-73.28	-13	-52.33	114.4	Horizontal	PK	Pass
6	13483.1250	-60.22	17.63	-77.85	-13	-47.22	350.7	Horizontal	PK	Pass



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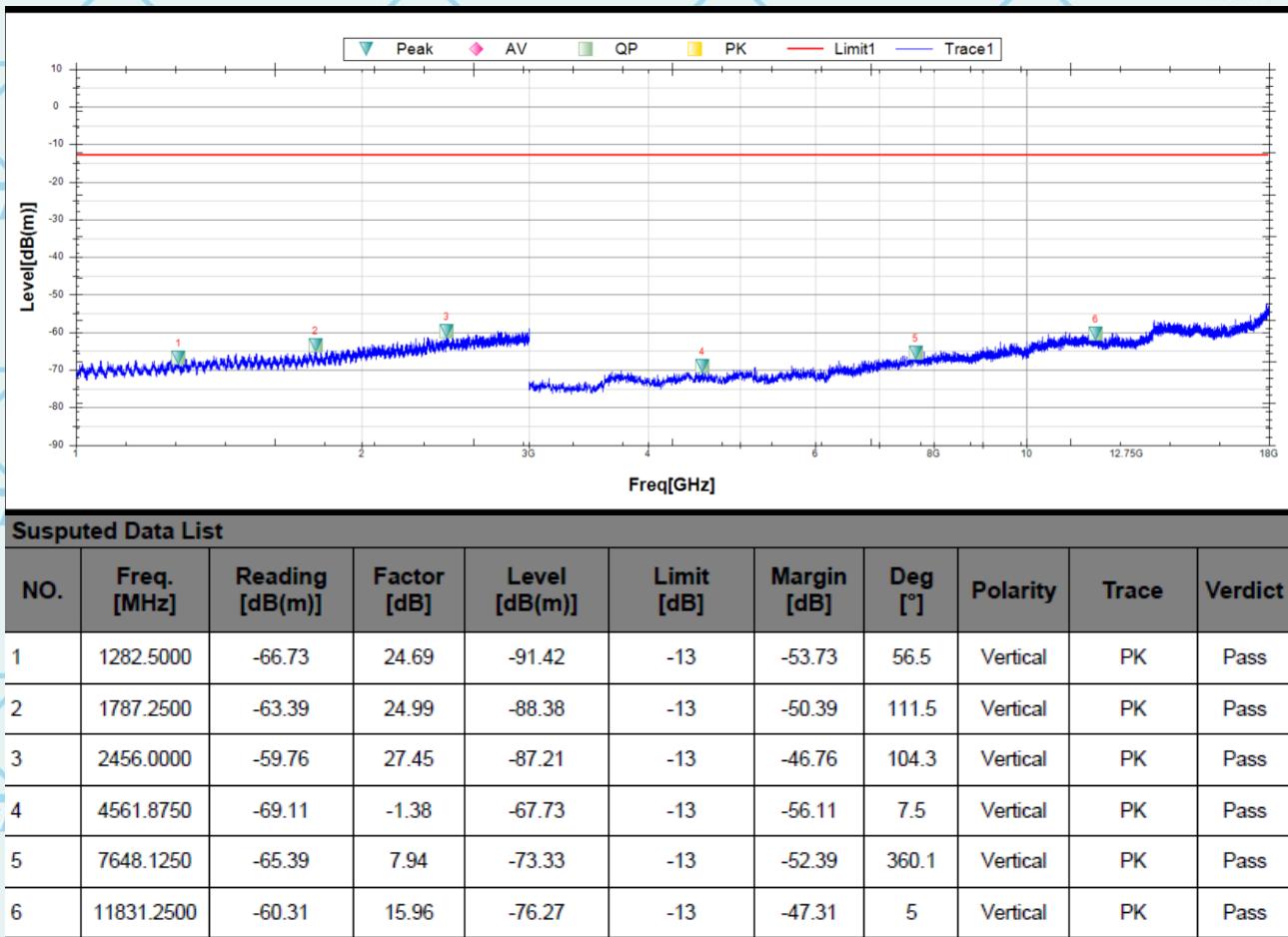


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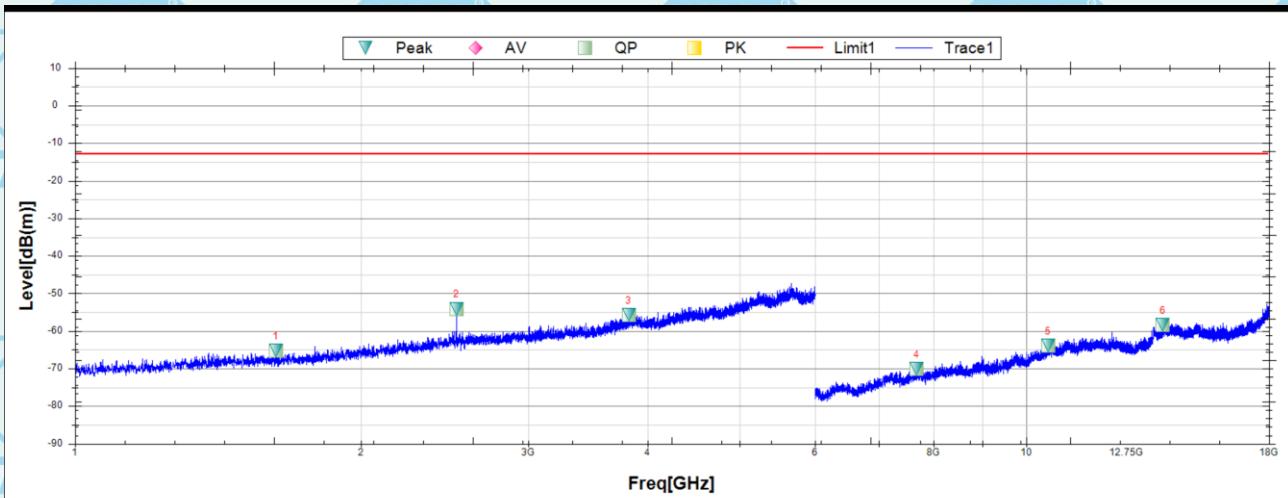
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n7:

Horizontal:



Suspected Data List

NO.	Freq. [MHz]	Reading [dB(m)]	Factor [dB]	Level [dB(m)]	Limit [dB]	Margin [dB]	Deg [']	Polarity	Trace	Verdict
1	1626.2500	-65.31	0.63	-65.94	-13	-52.31	359.6	Horizontal	PK	Pass
2	2519.3750	-54.1	6.35	-60.45	-13	-41.1	357.4	Horizontal	PK	Pass
3	3822.5000	-55.79	11.99	-67.78	-13	-42.79	0.1	Horizontal	PK	Pass
4	7672.5000	-70.12	36.51	-106.63	-13	-57.12	0.4	Horizontal	PK	Pass
5	10549.5000	-64.03	38.87	-102.9	-13	-51.03	109.3	Horizontal	PK	Pass
6	13927.5000	-58.45	41.31	-99.76	-13	-45.45	2.4	Horizontal	PK	Pass



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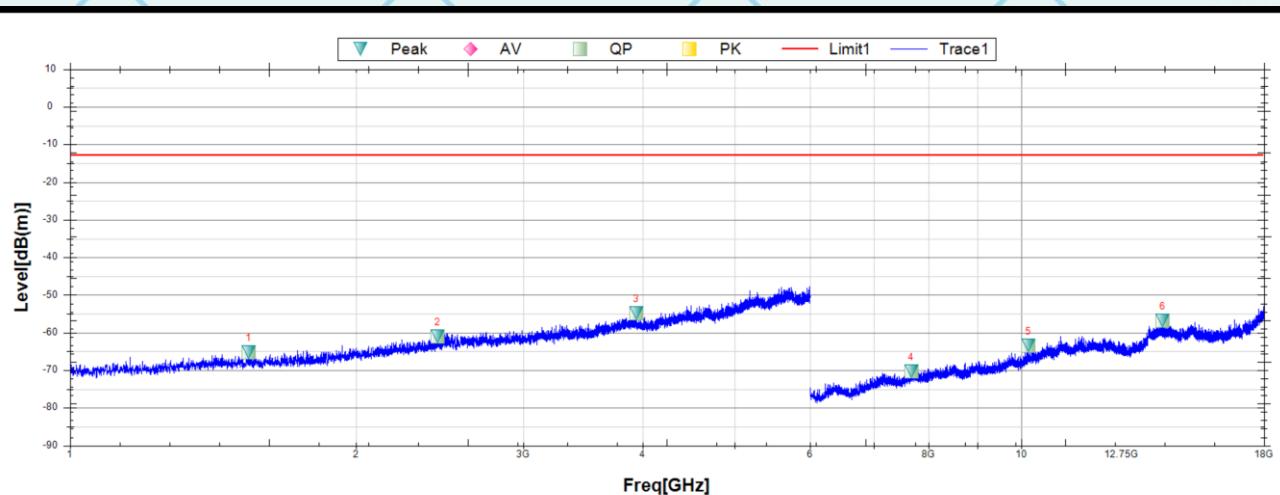


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Certificate Number : AT-3951

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Suspected Data List

NO.	Freq. [MHz]	Reading [dB(m)]	Factor [dB]	Level [dB(m)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1541.8750	-65.25	0.39	-65.64	-13	-52.25	195.8	Vertical	PK	Pass
2	2436.8750	-61.01	5.8	-66.81	-13	-48.01	48.7	Vertical	PK	Pass
3	3941.2500	-54.9	12.61	-67.51	-13	-41.9	359.4	Vertical	PK	Pass
4	7663.5000	-70.38	36.5	-106.88	-13	-57.38	2.1	Vertical	PK	Pass
5	10180.5000	-63.56	38.35	-101.91	-13	-50.56	360.1	Vertical	PK	Pass
6	14091.0000	-56.88	41.38	-98.26	-13	-43.88	2.3	Vertical	PK	Pass



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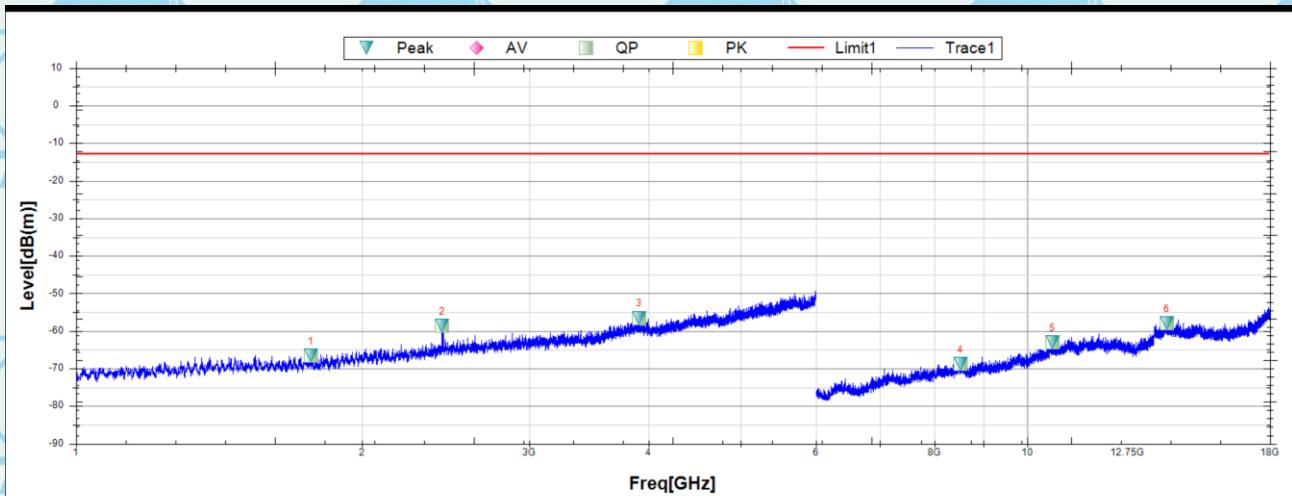
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n12:

Horizontal:



Suspected Data List

NO.	Freq. [MHz]	Reading [dB(m)]	Factor [dB]	Level [dB(m)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1766.2500	-66.67	1.34	-68.01	-13	-53.67	131.2	Horizontal	PK	Pass
2	2428.1250	-58.6	5.79	-64.39	-13	-45.6	307	Horizontal	PK	Pass
3	3910.6250	-56.53	12.49	-69.02	-13	-43.53	283	Horizontal	PK	Pass
4	8512.5000	-68.79	37.2	-105.99	-13	-55.79	360.1	Horizontal	PK	Pass
5	10632.0000	-62.97	38.98	-101.95	-13	-49.97	279	Horizontal	PK	Pass
6	14020.5000	-57.92	41.47	-99.39	-13	-44.92	360.1	Horizontal	PK	Pass



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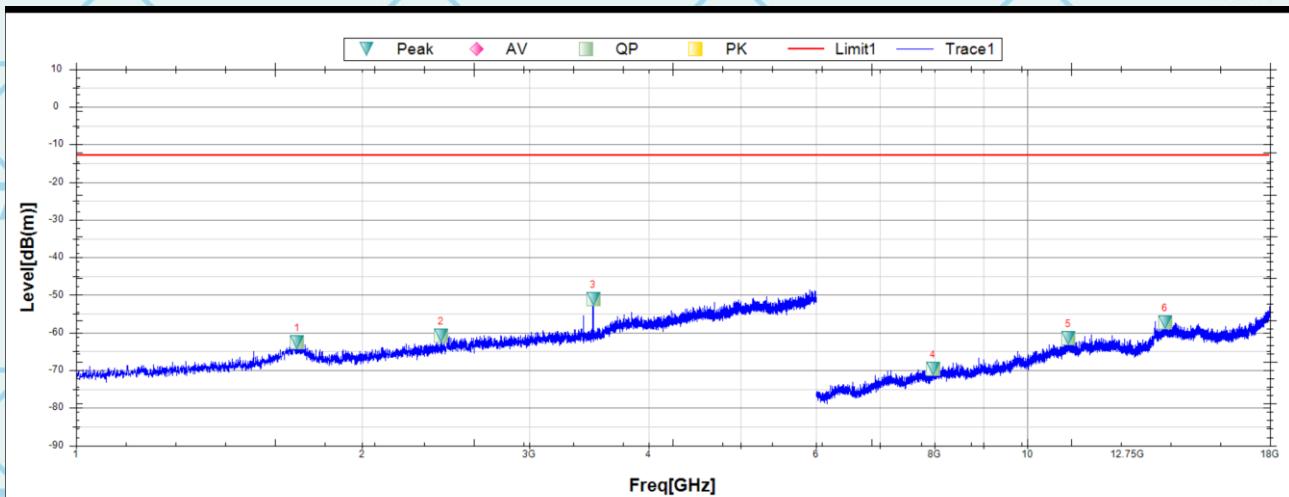


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Vertical:



Suspected Data List

NO.	Freq. [MHz]	Reading [dB(m)]	Factor [dB]	Level [dB(m)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1708.7500	-62.64	0.93	-63.57	-13	-49.64	167.1	Vertical	PK	Pass
2	2420.6250	-60.85	5.78	-66.63	-13	-47.85	359.1	Vertical	PK	Pass
3	3498.1250	-51.09	10.18	-61.27	-13	-38.09	143.1	Vertical	PK	Pass
4	7963.5000	-69.76	36.95	-106.71	-13	-56.76	250.3	Vertical	PK	Pass
5	11050.5000	-61.43	39.45	-100.88	-13	-48.43	1.9	Vertical	PK	Pass
6	13960.5000	-57.29	41.4	-98.69	-13	-44.29	31.5	Vertical	PK	Pass



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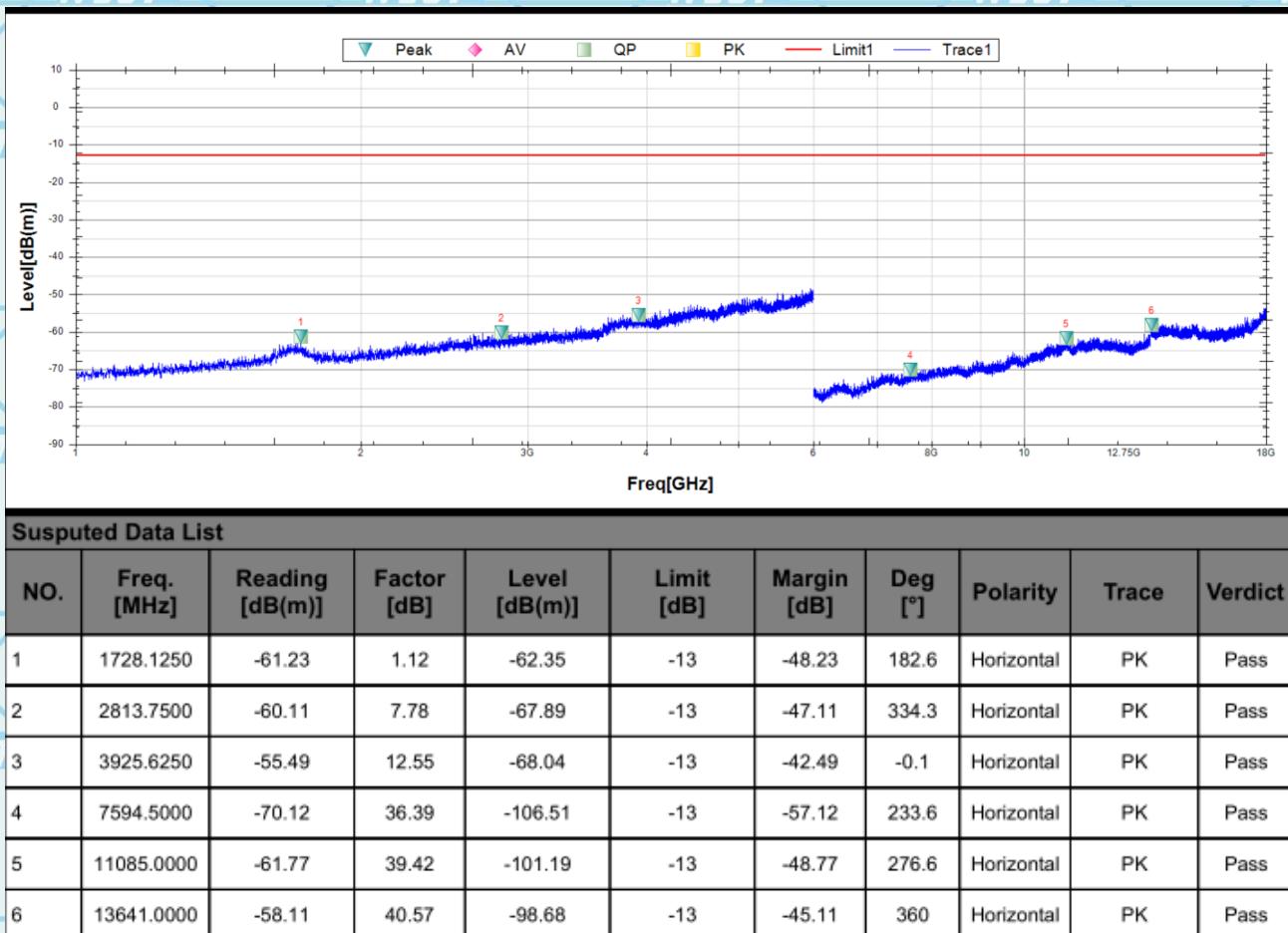
Report No.: WSCT-ANAB-R&E240700031A-RF

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Horizontal:



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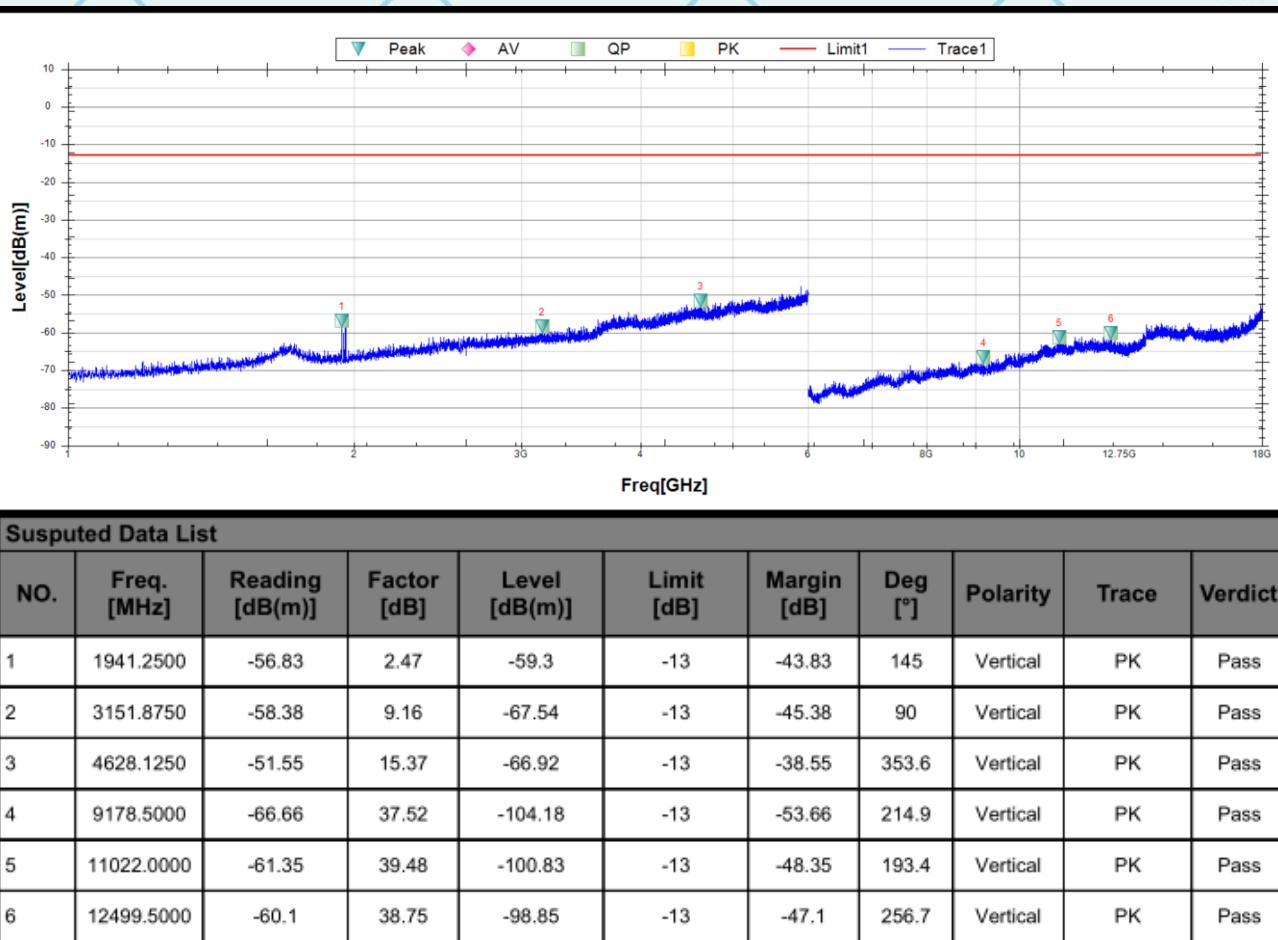


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Vertical:



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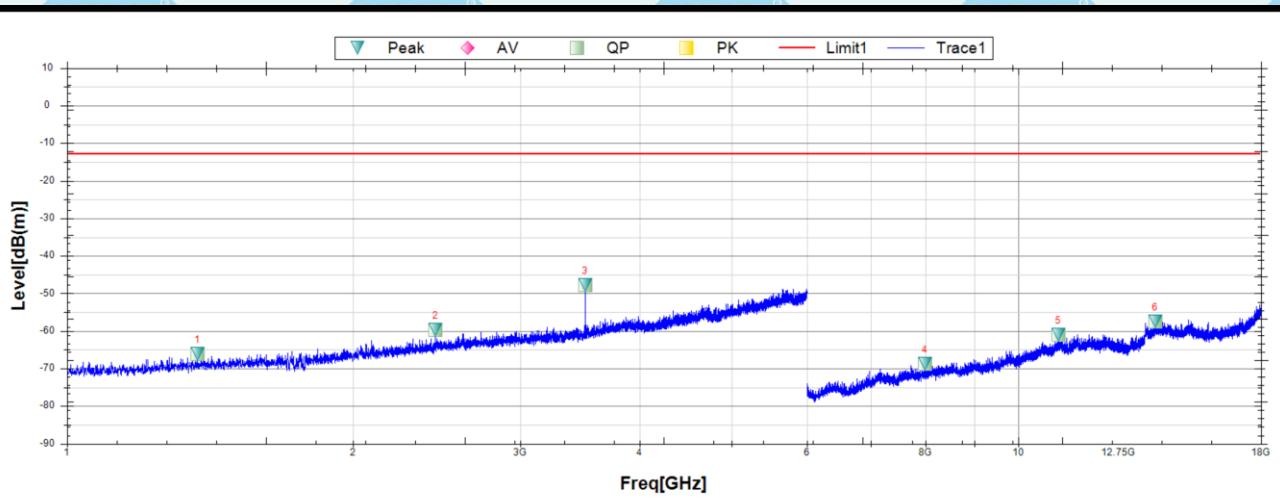
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Certificate Number : AT-3951

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n41:

Horizontal:



Suspected Data List

NO.	Freq. [MHz]	Reading [dB(m)]	Factor [dB]	Level [dB(m)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1371.8750	-66.1	-0.26	-65.84	-13	-53.1	87.8	Horizontal	PK	Pass
2	2441.8750	-59.76	5.84	-65.6	-13	-46.76	293.4	Horizontal	PK	Pass
3	3507.5000	-47.86	10.22	-58.08	-13	-34.86	2.4	Horizontal	PK	Pass
4	7983.0000	-68.82	36.97	-105.79	-13	-55.82	85.8	Horizontal	PK	Pass
5	11025.0000	-61.07	39.48	-100.55	-13	-48.07	312.9	Horizontal	PK	Pass
6	13935.0000	-57.46	41.33	-98.79	-13	-44.46	164.6	Horizontal	PK	Pass



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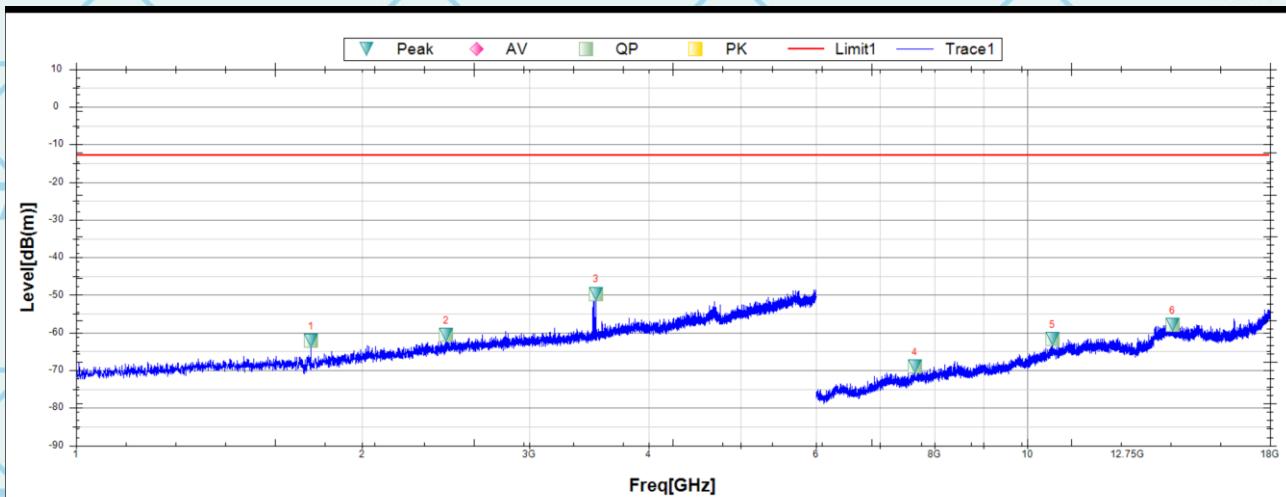


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Vertical:



Suspected Data List

NO.	Freq. [MHz]	Reading [dB(m)]	Factor [dB]	Level [dB(m)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1766.8750	-62.13	1.34	-63.47	-13	-49.13	360.1	Vertical	PK	Pass
2	2451.8750	-60.62	5.94	-66.56	-13	-47.62	0.8	Vertical	PK	Pass
3	3523.7500	-49.69	10.31	-60	-13	-36.69	126.1	Vertical	PK	Pass
4	7621.5000	-68.98	36.43	-105.41	-13	-55.98	142.8	Vertical	PK	Pass
5	10635.0000	-61.63	38.99	-100.62	-13	-48.63	360.1	Vertical	PK	Pass
6	14220.0000	-57.91	41.21	-99.12	-13	-44.91	142.8	Vertical	PK	Pass



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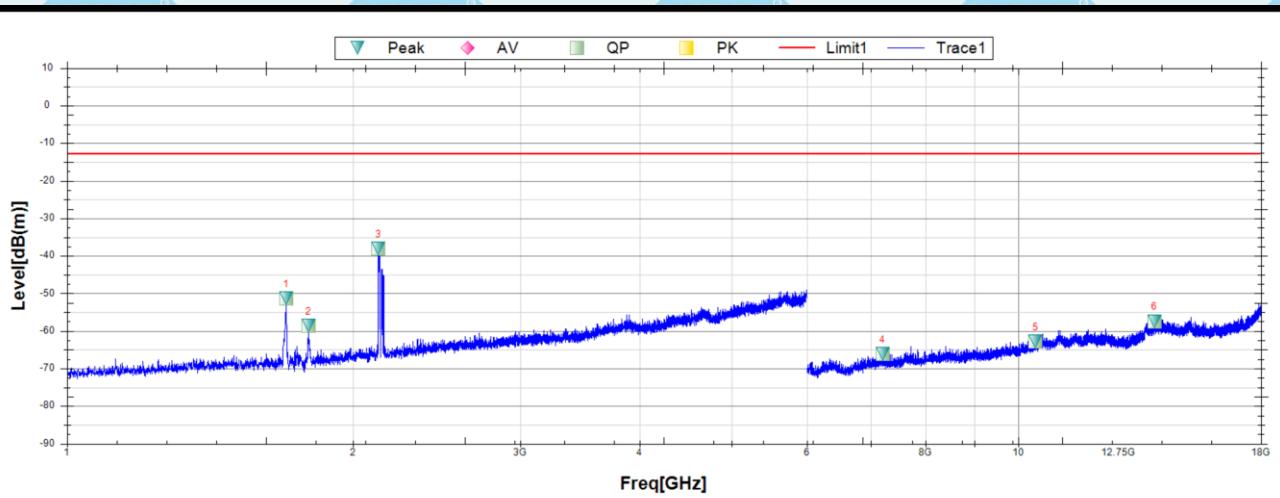
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n66:

Horizontal:



Suspected Data List

NO.	Freq. [MHz]	Reading [dB(m)]	Factor [dB]	Level [dB(m)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1700.6250	-51.4	0.57	-51.97	-13	-38.4	292.6	Horizontal	PK	Pass
2	1795.6250	-58.63	0.99	-59.62	-13	-45.63	316.5	Horizontal	PK	Pass
3	2126.8750	-38.05	3.65	-41.7	-13	-25.05	42.7	Horizontal	PK	Pass
4	7203.0000	-66.13	35.8	-101.93	-13	-53.13	78.6	Horizontal	PK	Pass
5	10435.5000	-62.82	38.71	-101.53	-13	-49.82	0	Horizontal	PK	Pass
6	13906.5000	-57.42	41.26	-98.68	-13	-44.42	176.6	Horizontal	PK	Pass



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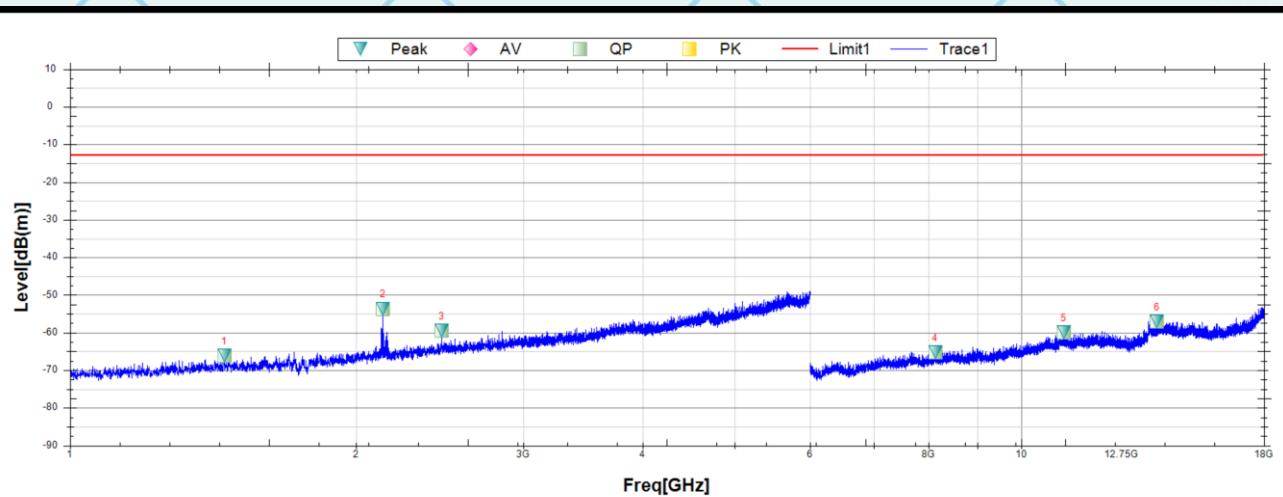


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Vertical:



Suspected Data List

NO.	Freq. [MHz]	Reading [dB(m)]	Factor [dB]	Level [dB(m)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1453.1250	-66.04	-0.17	-65.87	-13	-53.04	85.4	Vertical	PK	Pass
2	2135.0000	-53.65	3.68	-57.33	-13	-40.65	360.1	Vertical	PK	Pass
3	2460.6250	-59.56	5.73	-65.29	-13	-46.56	134.3	Vertical	PK	Pass
4	8122.5000	-65.19	37.05	-102.24	-13	-52.19	360.1	Vertical	PK	Pass
5	11089.5000	-60.01	39.42	-99.43	-13	-47.01	338.8	Vertical	PK	Pass
6	13900.5000	-57.04	41.24	-98.28	-13	-44.04	0.5	Vertical	PK	Pass



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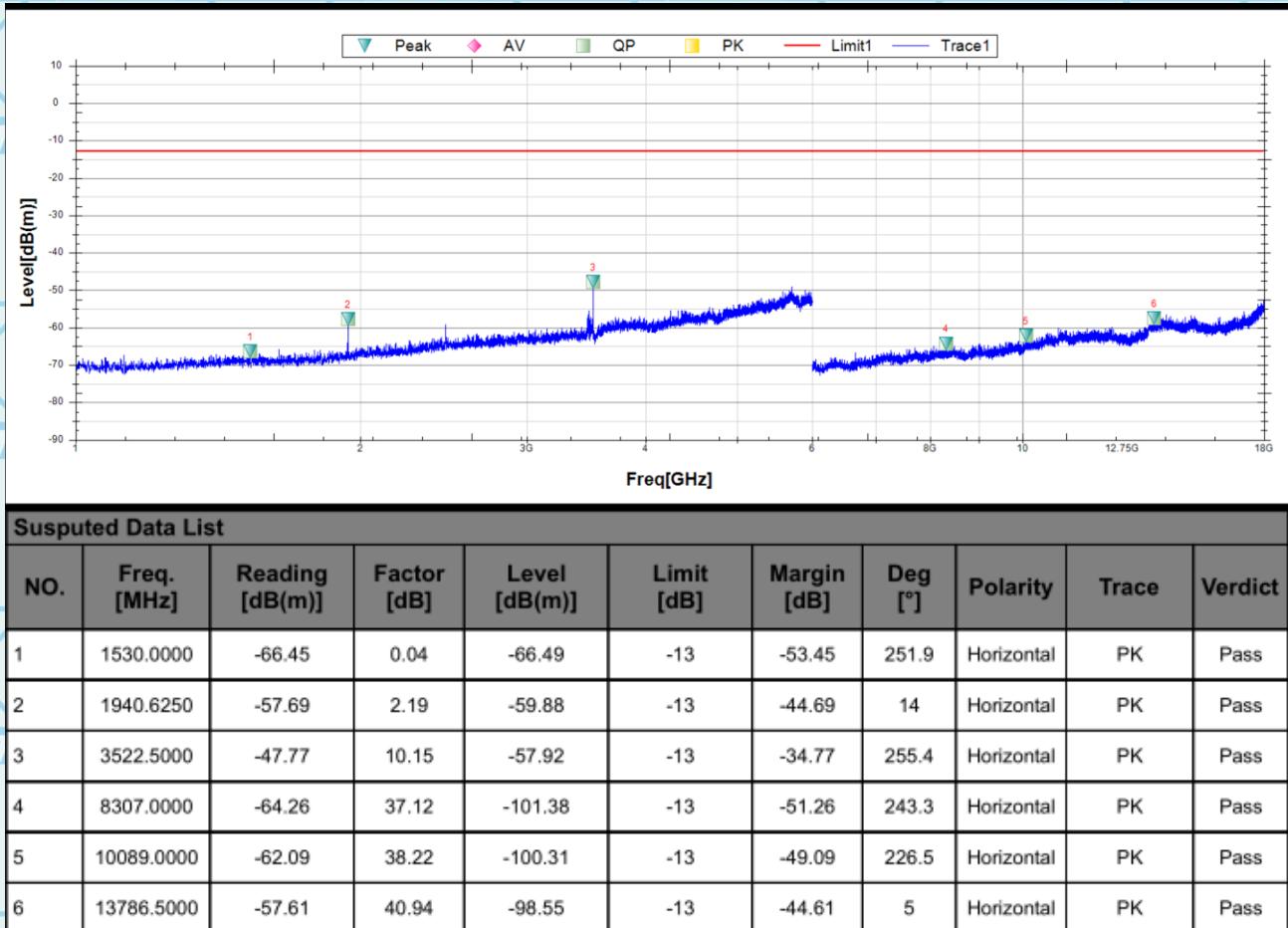
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n77(3450-3550Mhz):

Horizontal: T



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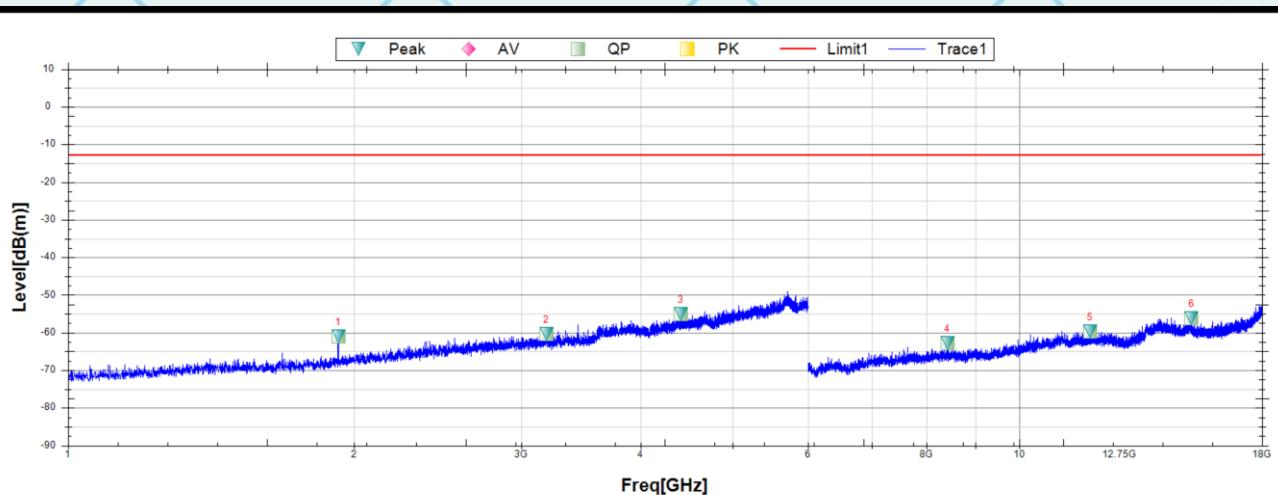


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Certificate Number : AT-3951

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Vertical:



Suspected Data List

NO.	Freq. [MHz]	Reading [dB(m)]	Factor [dB]	Level [dB(m)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1924.3750	-61	2.06	-63.06	-13	-48	348.5	Vertical	PK	Pass
2	3185.0000	-60.35	8.7	-69.05	-13	-47.35	35.6	Vertical	PK	Pass
3	4411.8750	-55.11	13.98	-69.09	-13	-42.11	151.6	Vertical	PK	Pass
4	8404.5000	-62.91	37.16	-100.07	-13	-49.91	135.5	Vertical	PK	Pass
5	11877.0000	-59.64	38.71	-98.35	-13	-46.64	300.5	Vertical	PK	Pass
6	15184.5000	-56.25	39.63	-95.88	-13	-43.25	288.6	Vertical	PK	Pass



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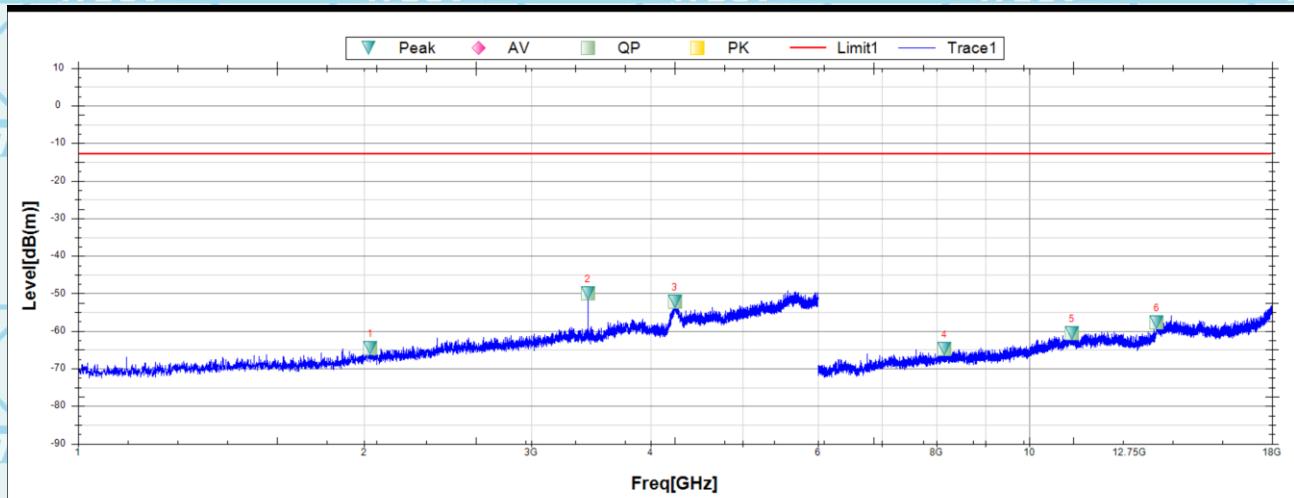
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n77(3700-3980Mhz):

Horizontal: T



Suspected Data List

NO.	Freq. [MHz]	Reading [dB(m)]	Factor [dB]	Level [dB(m)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	2029.3750	-64.67	3.05	-67.72	-13	-51.67	170.7	Horizontal	PK	Pass
2	3437.5000	-49.95	9.68	-59.63	-13	-36.95	161.1	Horizontal	PK	Pass
3	4243.7500	-52.19	13.22	-65.41	-13	-39.19	322.5	Horizontal	PK	Pass
4	8149.5000	-64.88	37.06	-101.94	-13	-51.88	208.4	Horizontal	PK	Pass
5	11094.0000	-60.59	39.42	-100.01	-13	-47.59	0.5	Horizontal	PK	Pass
6	13621.5000	-57.77	40.52	-98.29	-13	-44.77	5	Horizontal	PK	Pass



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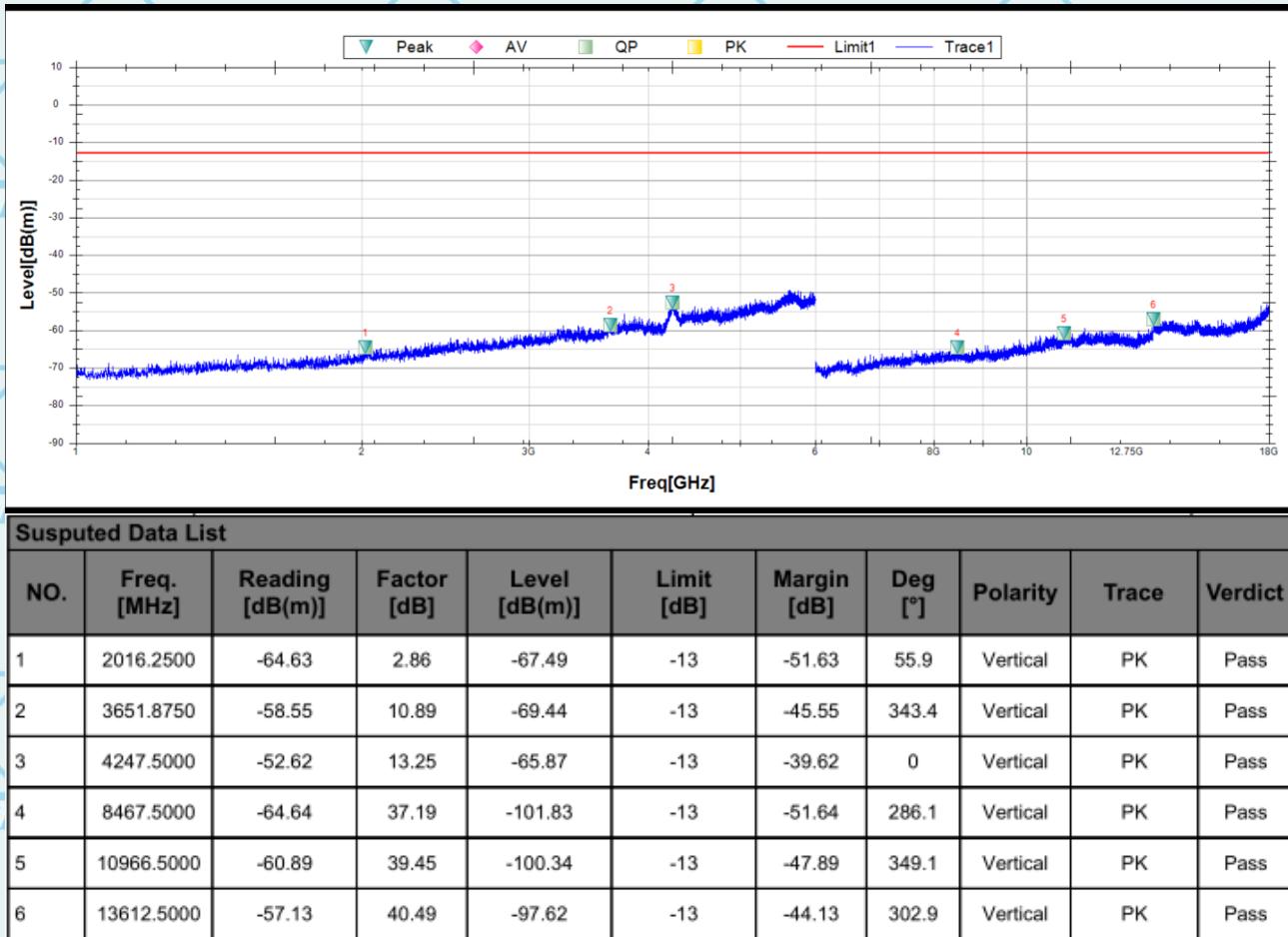


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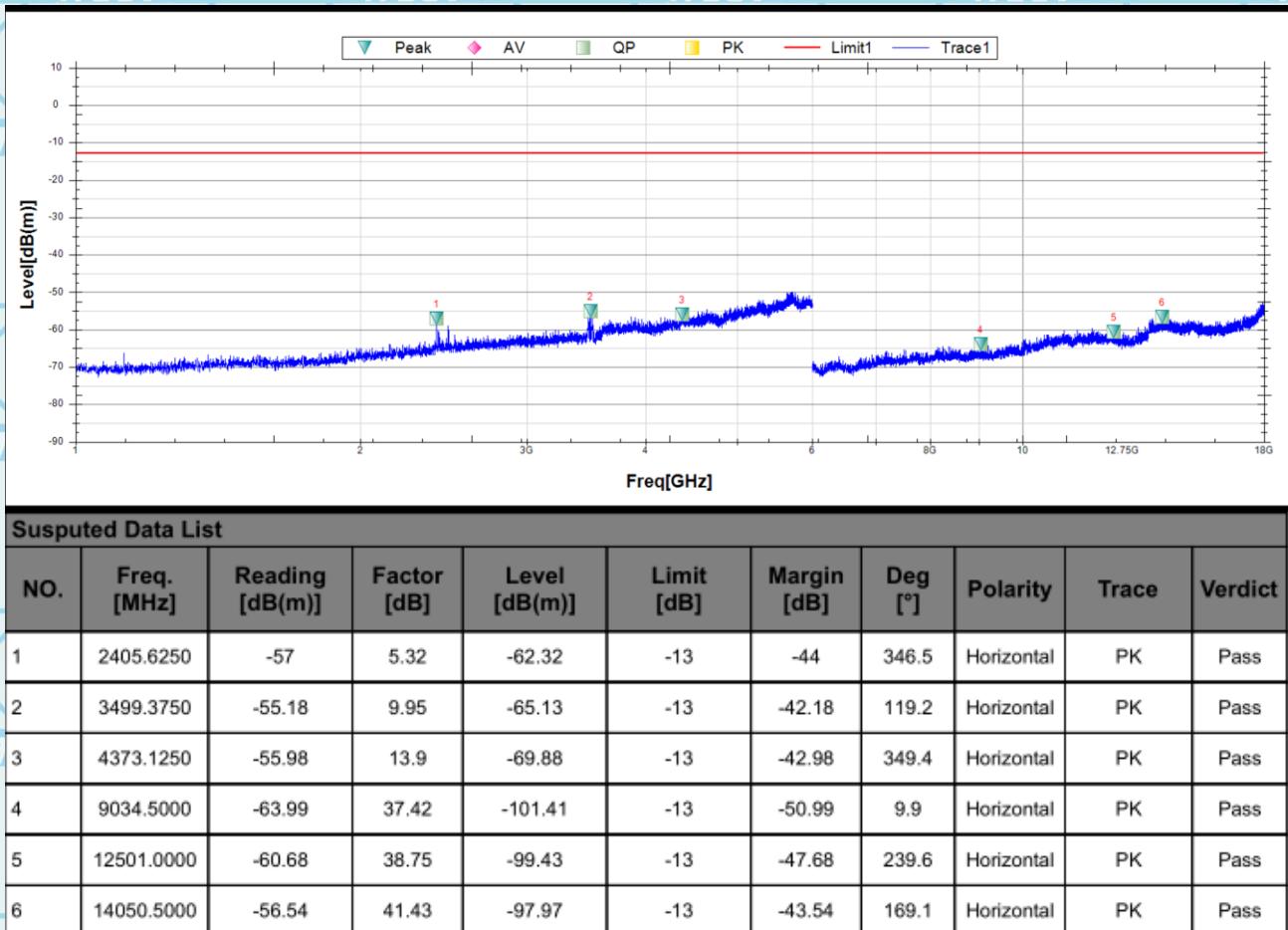
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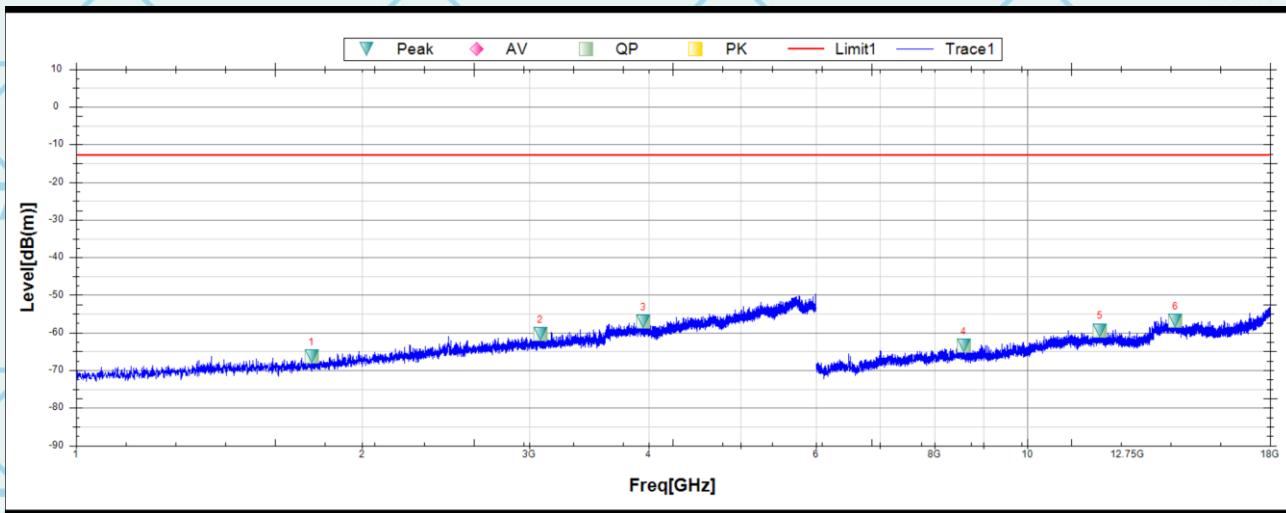
n78(3450-3550Mhz):

Horizontal: T





Vertical:



Suspected Data List

NO.	Freq. [MHz]	Reading [dB(m)]	Factor [dB]	Level [dB(m)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1768.7500	-66.27	0.6	-66.87	-13	-53.27	0	Vertical	PK	Pass
2	3078.7500	-60.42	8.33	-68.75	-13	-47.42	208.9	Vertical	PK	Pass
3	3952.5000	-57.07	12.02	-69.09	-13	-44.07	158.7	Vertical	PK	Pass
4	8580.0000	-63.56	37.23	-100.79	-13	-50.56	247.9	Vertical	PK	Pass
5	11932.5000	-59.4	38.66	-98.06	-13	-46.4	360	Vertical	PK	Pass
6	14325.0000	-56.81	41.08	-97.89	-13	-43.81	65	Vertical	PK	Pass



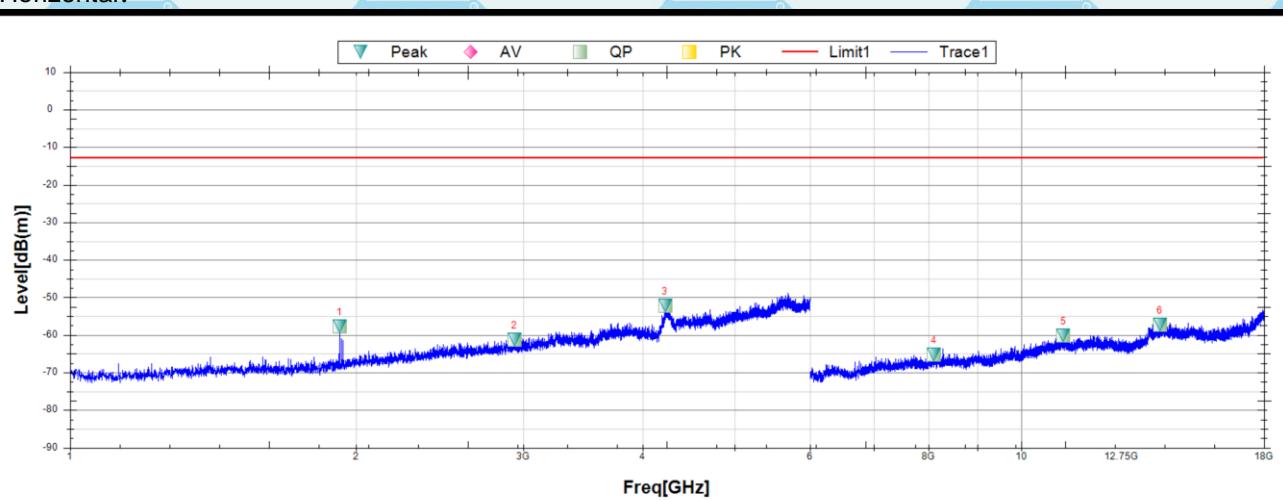


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n78(3700-3800Mhz):

Horizontal:

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Suspected Data List

NO.	Freq. [MHz]	Reading [dB(m)]	Factor [dB]	Level [dB(m)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1921.2500	-57.83	2.04	-59.87	-13	-44.83	243.1	Horizontal	PK	Pass
2	2933.7500	-61.19	7.73	-68.92	-13	-48.19	213.2	Horizontal	PK	Pass
3	4224.3750	-52.25	13.15	-65.4	-13	-39.25	196.5	Horizontal	PK	Pass
4	8101.5000	-65.23	37.04	-102.27	-13	-52.23	-0.1	Horizontal	PK	Pass
5	11083.5000	-60.09	39.42	-99.51	-13	-47.09	81	Horizontal	PK	Pass
6	13992.0000	-57.25	41.48	-98.73	-13	-44.25	333.3	Horizontal	PK	Pass



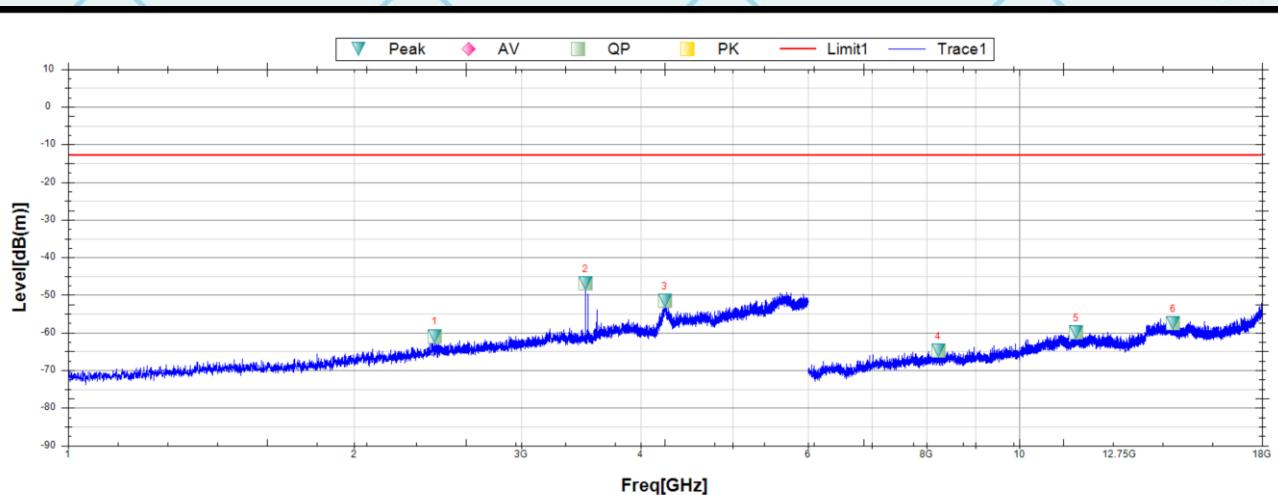


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Vertical:



Suspected Data List

NO.	Freq. [MHz]	Reading [dB(m)]	Factor [dB]	Level [dB]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	2430.0000	-60.94	27.36	-88.3	-13	-47.94	121.2	Vertical	PK	Pass
2	3501.8750	-46.91	28.5	-75.41	-13	-33.91	360	Vertical	PK	Pass
3	4242.5000	-51.56	30.14	-81.7	-13	-38.56	175	Vertical	PK	Pass
4	8221.5000	-64.81	8.81	-73.62	-13	-51.81	-0.1	Vertical	PK	Pass
5	11484.0000	-59.92	16.08	-76	-13	-46.92	52.2	Vertical	PK	Pass
6	14520.0000	-57.5	18.6	-76.1	-13	-44.5	168.2	Vertical	PK	Pass



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TEL: 86-755-26996192 226996053 Fax: 86-755-86376605 E-mail: Fengbing.Wang@wsct-cert.com Http: www.wsct-cert.com



9. OCCUPIED BANDWIDTH & EMISSION BANDWIDTH

Test limit:

The occupied bandwidth (OBW), that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission, shall be measured when modulated by an input signal such that its amplitude and symbol rate represent the maximum rated conditions under which the equipment will be operated. The signal shall be applied through any filter networks, pseudo-random generators or other devices required in normal service. Additionally, the occupied bandwidth shall be shown for operation with any devices used for modifying the spectrum when such devices are optional at the discretion of the user. [j2.1049(h)]

Many of the individual rule parts specify a relative OBW in lieu of the 99% OBW. In such cases, the OBW is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated by at least X dB below the transmitter power, where the value of X is typically specified as 26.

The relative OBW must be measured and reported when it is specified in the applicable rule part; otherwise, the 99% OBW shall be measured and reported. The test report shall specify which OBW is reported.

A spectrum/signal analyzer or other instrument providing a spectral display is recommended for these measurements and the video bandwidth shall be set to a value at least three times greater than the IF/resolution bandwidth to avoid any amplitude smoothing. Video filtering shall not be used during occupied bandwidth tests.

The OBW shall be measured for all operating conditions that will affect the bandwidth results (e.g. variable modulations, coding, or channel bandwidth settings). See section 4.

Test procedure:

Occupied bandwidth – relative measurement procedure

The reference value is the highest level of the spectral envelope of the modulated signal.

- a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be between two and five times the anticipated OBW.
- b) The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
- c) Set the reference level of the instrument as required to prevent the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope must be at least $10\log(\text{OBW} / \text{RBW})$ below the reference level.
- d) NOTE—Steps a) through c) may require iteration to adjust within the specified tolerances.
- e) The dynamic range of the spectrum analyzer at the selected RBW shall be at least 10 dB below the target “-X dB down” requirement (i.e., if the requirement calls for measuring the -26 dB OBW, the spectrum analyzer noise floor at the selected RBW shall be at least 36 dB below the reference value).
- f) Set the detection mode to peak, and the trace mode to max hold.
- g) Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value).
- h) Determine the “-X dB down amplitude” as equal to (Reference Value – X). Alternatively, this calculation can be performed by the analyzer by using the marker-delta function.



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i) Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the “-X dB down amplitude” determined in step g). If a marker is below this “-X dB down amplitude” value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.

j) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display. The frequency and amplitude axes and scale shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

Occupied bandwidth – power bandwidth (99%) measurement procedure

The following procedure shall be used for measuring (99 %) power bandwidth

a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be set wide enough to capture all modulation products including the emission skirts (i.e., two to five times the OBW).

b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.

c) Set the reference level of the instrument as required to keep the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope must be at least 10log (OBW / RBW) below the reference level.

d) NOTE—Steps a) through c) may require iteration to adjust within the specified tolerances.

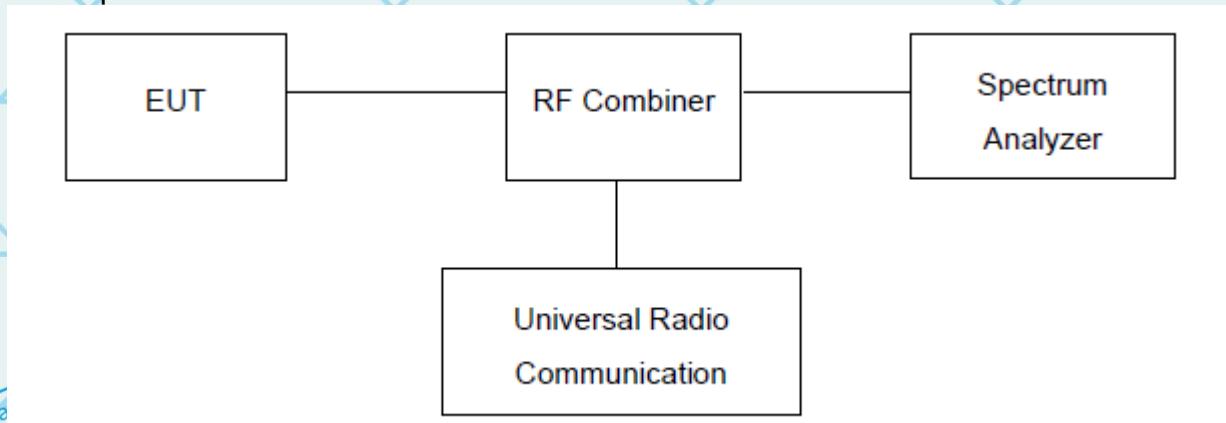
e) Set the detection mode to peak, and the trace mode to max hold..

f) Use the 99 % power bandwidth function of the spectrum analyzer (if available) and report the measured bandwidth.

g) If the instrument does not have a 99 % power bandwidth function, the trace data points are to be recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99 % power bandwidth is the difference between these two frequencies.

h) The OBW shall be reported by providing plot(s) of the measuring instrument display. The frequency and amplitude axes and scale shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

Test setup:





9.1. Measurement Result

GSM850:

Frequency	OBW(99%)	26dB BW
824.2	243.59KHz	312.50KHz
836.6	245.19KHz	315.71KHz
848.8	245.19KHz	317.31KHz

PCS1900:

Frequency	OBW(99%)	26dB BW
1850.2	248.40KHz	314.10KHz
1880	246.79KHz	304.49KHz
1909.8	241.99KHz	312.50KHz

GPRS850:

Frequency	OBW(99%)	26dB BW
824.2	246.79KHz	312.50KHz
836.6	246.79KHz	317.31KHz
848.8	246.79KHz	317.31KHz

GPRS 1900:

Frequency	OBW(99%)	26dB BW
1850.2	248.40KHz	309.29KHz
1880	243.59KHz	312.50KHz
1909.8	248.40KHz	314.10KHz





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EGPRS 850:

Frequency	OBW(99%)	26dB BW
824.2	248.40KHz	315.71KHz
836.6	248.40KHz	317.31KHz
848.8	245.19KHz	314.42KHz

EGPRS 1900:

Frequency	OBW(99%)	26dB BW
1850.2	246.79KHz	310.90KHz
1880	246.79KHz	315.71KHz
1909.8	248.40KHz	318.91KHz





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UTRA BANDS
Band 2:

Frequency	OBW(99%)	26dB BW
1852.4	4.151MHz	4.663MHz
1880	4.167MHz	4.696MHz
1907.6	4.167MHz	4.744MHz

Band 4:

Frequency	OBW(99%)	26dB BW
1712.4	4.199MHz	4.663MHz
1732.6	4.167MHz	4.696MHz
1752.6	4.167MHz	4.691MHz

Band 5:

Frequency	OBW(99%)	26dB BW
826.4	4.167MHz	4.712MHz
836.4	4.167MHz	4.696MHz
846.6	4.151MHz	4.712MHz





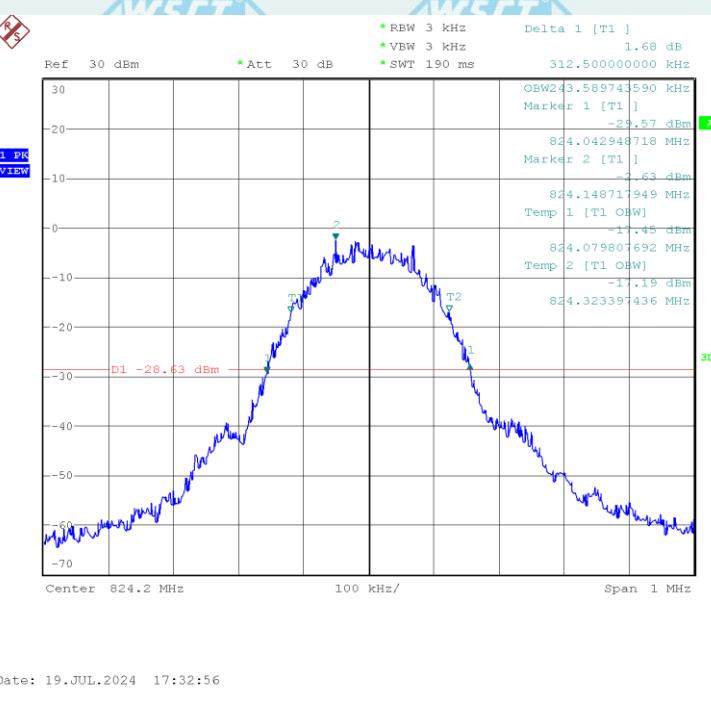
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Test Plot(s)

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Occupied Bandwidth (99% and -26dBc) GSM 850 Band CH 128



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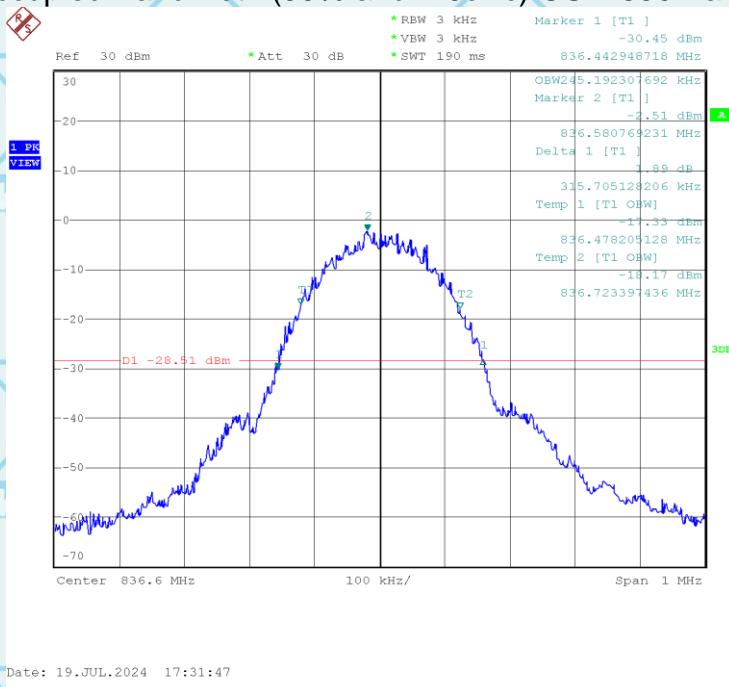


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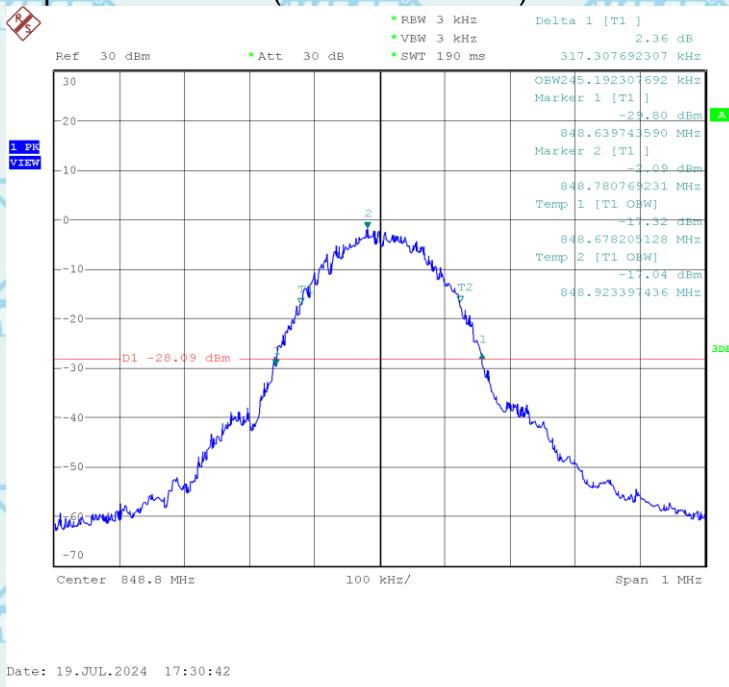
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Occupied Bandwidth (99% and -26dBc) GSM 850 Band CH 190

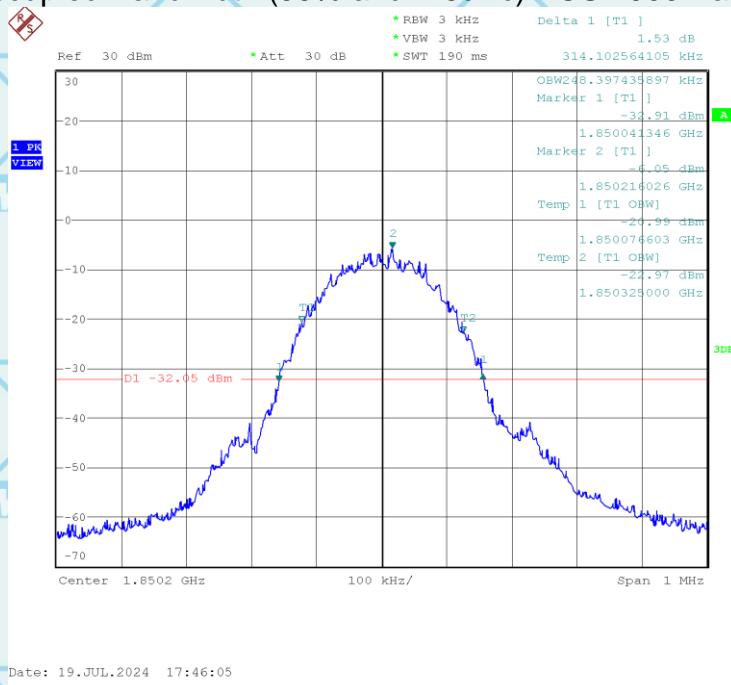


Occupied Bandwidth (99% and -26dBc) GSM 850 Band CH 251

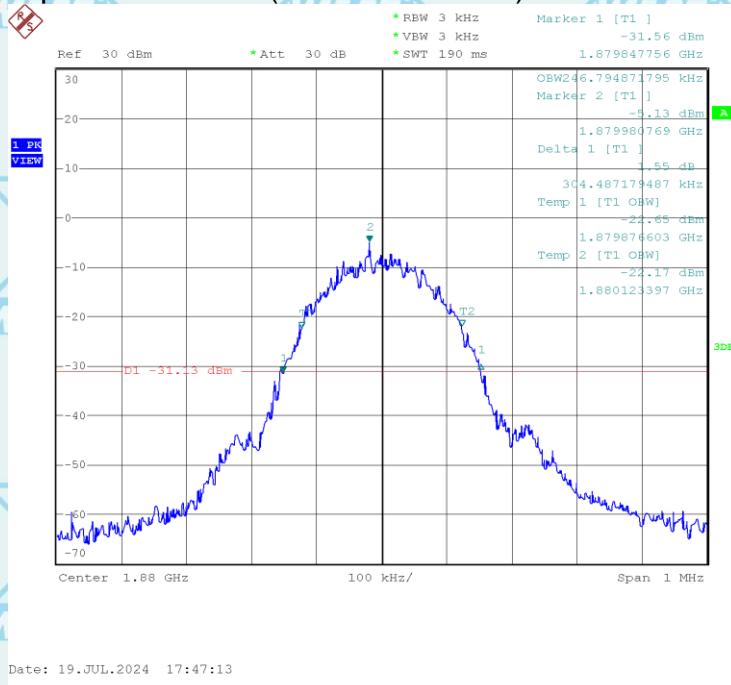




Occupied Bandwidth (99% and -26dBc) PCS 1900 Band CH 512



Occupied Bandwidth (99% and -26dBc) PCS 1900 Band CH 661



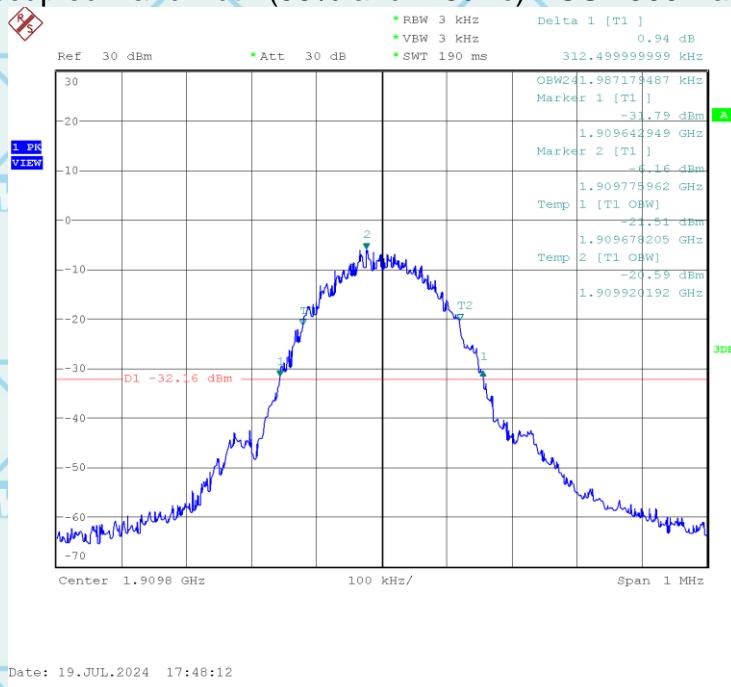


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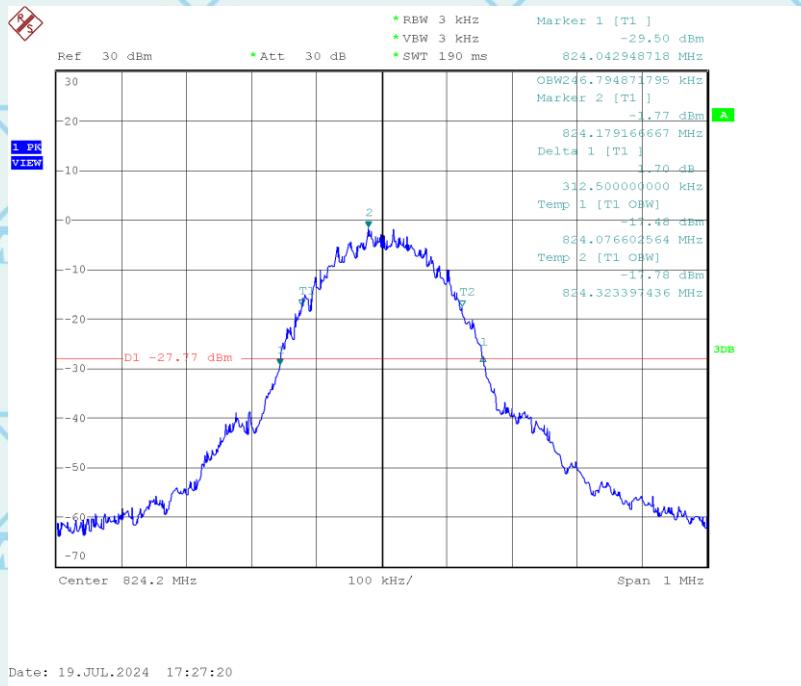
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Occupied Bandwidth (99% and -26dBc) PCS 1900 Band CH 810



Occupied Bandwidth (99% and -26dBc) GPRS 850 Band CH 128



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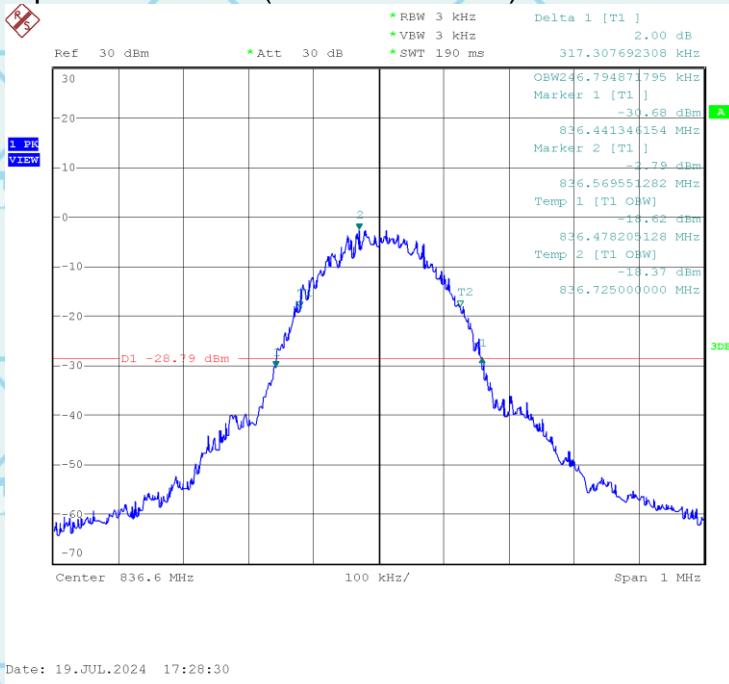
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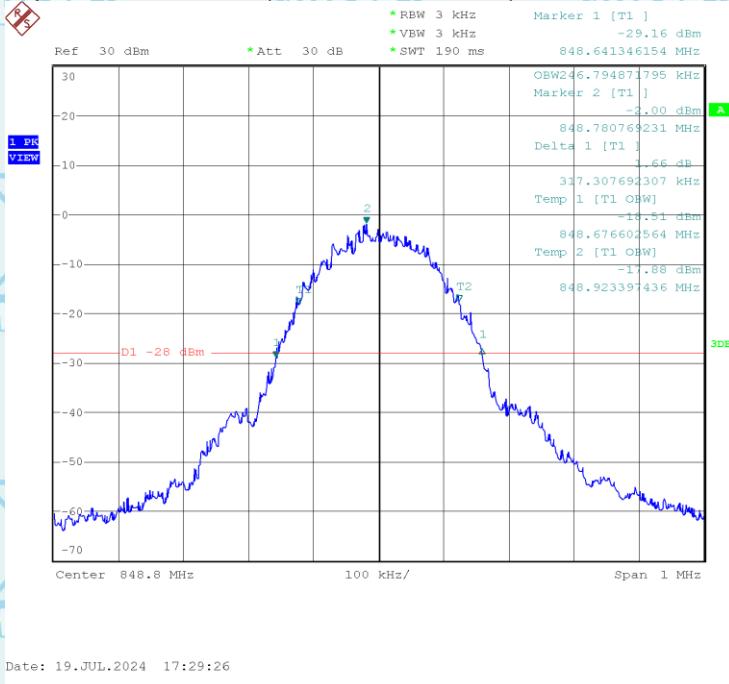
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Occupied Bandwidth (99% and -26dBc) GPRS 850 Band CH 190



Occupied Bandwidth (99% and -26dBc) GPRS 850 Band CH 251



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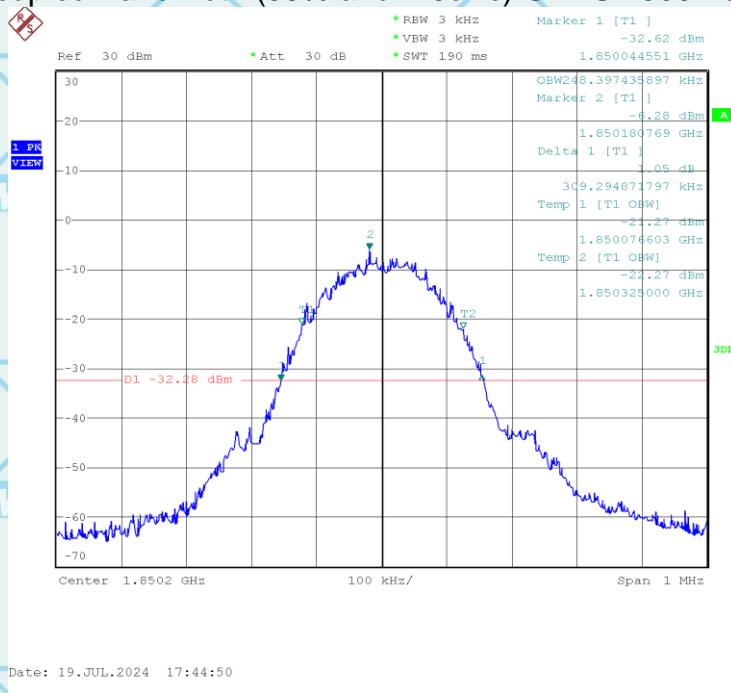


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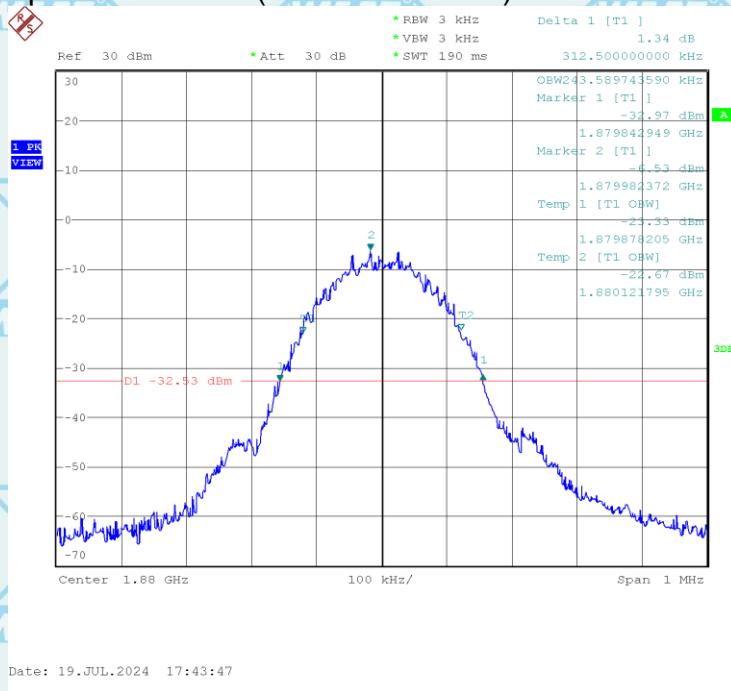
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Occupied Bandwidth (99% and -26dBc) GPRS 1900 Band CH 512



Occupied Bandwidth (99% and -26dBc) GPRS 1900 Band CH 661



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