



Appendix B

E-UTRA BAND 26 (814MHz-824MHz)



CONTENT

1.	EFFECTIVE (ISOTROPIC) RADIATED POWER.....	3
1.1.	<i>Test Result</i>	3
2.	PEAK-TO-AVERAGE RATIO(CCDF).....	9
2.1.	<i>Test Result</i>	9
2.2.	<i>Test Plots</i>	9
3.	MODULATION CHARACTERISTICS	11
3.1.	<i>Test BAND = LTE BAND 26</i>	11
3.1.1.	<i>Test Mode = LTE /TM1 10MHz</i>	11
3.1.1.1.	<i>Test Channel = MCH</i>	11
3.1.2.	<i>Test Mode = LTE /TM2 10MHz</i>	12
3.1.2.1.	<i>Test Channel = MCH</i>	12
3.1.3.	<i>Test Mode = LTE /TM3 10MHz</i>	13
3.1.3.1.	<i>Test Channel = MCH</i>	13
4.	26dB BANDWIDTH AND OCCUPIED BANDWIDTH	14
4.1.	<i>Test Result</i>	14
4.2.	<i>Test Plots</i>	15
5.	BAND EDGE COMPLIANCE	30
5.1.	<i>Test Result</i>	30
6.	SPURIOUS EMISSION AT ANTENNA TERMINAL	53
6.1.	<i>Test Result</i>	53
6.2.	<i>Test Plots</i>	54
7.	FIELD STRENGTH OF SPURIOUS RADIATION	63
7.1.	<i>Test BAND = LTE BAND 26</i>	63
7.1.1.	<i>Test Mode =LTE/TM1 10MHz RB1#0</i>	63
7.1.1.1.	<i>Test Channel = MCH</i>	63
8.	FREQUENCY STABILITY	64
8.1.	<i>Frequency Vs Voltage</i>	64
8.2.	<i>Frequency Vs Temperature</i>	64



1. Effective (Isotropic) Radiated Power

1.1. Test Result

BAND	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	ERP (dBm)	Limit (dBm)	Verdict
BAND 26	1.4MHz	QPSK	26697	1RB#0	22.97	23.82	38.45	PASS
BAND 26	1.4MHz	QPSK	26697	1RB#2	23.05	23.90	38.45	PASS
BAND 26	1.4MHz	QPSK	26697	1RB#5	23.01	23.86	38.45	PASS
BAND 26	1.4MHz	QPSK	26697	3RB#0	22.99	23.84	38.45	PASS
BAND 26	1.4MHz	QPSK	26697	3RB#1	23.05	23.90	38.45	PASS
BAND 26	1.4MHz	QPSK	26697	3RB#3	23.01	23.86	38.45	PASS
BAND 26	1.4MHz	QPSK	26697	6RB#0	22.09	22.94	38.45	PASS
BAND 26	1.4MHz	QPSK	26740	1RB#0	22.89	23.74	38.45	PASS
BAND 26	1.4MHz	QPSK	26740	1RB#2	23.00	23.85	38.45	PASS
BAND 26	1.4MHz	QPSK	26740	1RB#5	22.91	23.76	38.45	PASS
BAND 26	1.4MHz	QPSK	26740	3RB#0	22.96	23.81	38.45	PASS
BAND 26	1.4MHz	QPSK	26740	3RB#1	23.04	23.89	38.45	PASS
BAND 26	1.4MHz	QPSK	26740	3RB#3	22.95	23.80	38.45	PASS
BAND 26	1.4MHz	QPSK	26740	6RB#0	22.02	22.87	38.45	PASS
BAND 26	1.4MHz	QPSK	26783	1RB#0	22.91	23.76	38.45	PASS
BAND 26	1.4MHz	QPSK	26783	1RB#2	23.03	23.88	38.45	PASS
BAND 26	1.4MHz	QPSK	26783	1RB#5	22.90	23.75	38.45	PASS
BAND 26	1.4MHz	QPSK	26783	3RB#0	22.98	23.83	38.45	PASS
BAND 26	1.4MHz	QPSK	26783	3RB#1	23.01	23.86	38.45	PASS
BAND 26	1.4MHz	QPSK	26783	3RB#3	22.96	23.81	38.45	PASS
BAND 26	1.4MHz	QPSK	26783	6RB#0	22.04	22.89	38.45	PASS
BAND 26	1.4MHz	64QAM	26697	1RB#0	22.39	23.24	38.45	PASS
BAND 26	1.4MHz	64QAM	26697	1RB#2	22.53	23.38	38.45	PASS
BAND 26	1.4MHz	64QAM	26697	1RB#5	22.43	23.28	38.45	PASS
BAND 26	1.4MHz	64QAM	26697	3RB#0	22.36	23.21	38.45	PASS
BAND 26	1.4MHz	64QAM	26697	3RB#1	22.47	23.32	38.45	PASS
BAND 26	1.4MHz	64QAM	26697	3RB#3	22.39	23.24	38.45	PASS
BAND 26	1.4MHz	64QAM	26697	6RB#0	21.35	22.20	38.45	PASS
BAND 26	1.4MHz	64QAM	26740	1RB#0	22.25	23.10	38.45	PASS
BAND 26	1.4MHz	64QAM	26740	1RB#2	22.41	23.26	38.45	PASS
BAND 26	1.4MHz	64QAM	26740	1RB#5	22.33	23.18	38.45	PASS
BAND 26	1.4MHz	64QAM	26740	3RB#0	22.35	23.20	38.45	PASS
BAND 26	1.4MHz	64QAM	26740	3RB#1	22.31	23.16	38.45	PASS
BAND 26	1.4MHz	64QAM	26740	3RB#3	22.35	23.20	38.45	PASS



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

Report No.: SZEM180500453601

Page: 4 of 64

BAND 26	1.4MHz	64QAM	26740	6RB#0	21.32	22.17	38.45	PASS
BAND 26	1.4MHz	64QAM	26783	1RB#0	22.30	23.15	38.45	PASS
BAND 26	1.4MHz	64QAM	26783	1RB#2	22.46	23.31	38.45	PASS
BAND 26	1.4MHz	64QAM	26783	1RB#5	22.37	23.22	38.45	PASS
BAND 26	1.4MHz	64QAM	26783	3RB#0	22.35	23.20	38.45	PASS
BAND 26	1.4MHz	64QAM	26783	3RB#1	22.39	23.24	38.45	PASS
BAND 26	1.4MHz	64QAM	26783	3RB#3	22.34	23.19	38.45	PASS
BAND 26	1.4MHz	64QAM	26783	6RB#0	21.30	22.15	38.45	PASS
BAND 26	1.4MHz	16QAM	26697	1RB#0	22.13	22.98	38.45	PASS
BAND 26	1.4MHz	16QAM	26697	1RB#2	22.18	23.03	38.45	PASS
BAND 26	1.4MHz	16QAM	26697	1RB#5	22.24	23.09	38.45	PASS
BAND 26	1.4MHz	16QAM	26697	3RB#0	22.14	22.99	38.45	PASS
BAND 26	1.4MHz	16QAM	26697	3RB#1	22.24	23.09	38.45	PASS
BAND 26	1.4MHz	16QAM	26697	3RB#3	22.15	23.00	38.45	PASS
BAND 26	1.4MHz	16QAM	26697	6RB#0	21.19	22.04	38.45	PASS
BAND 26	1.4MHz	16QAM	26740	1RB#0	22.14	22.99	38.45	PASS
BAND 26	1.4MHz	16QAM	26740	1RB#2	22.23	23.08	38.45	PASS
BAND 26	1.4MHz	16QAM	26740	1RB#5	22.07	22.92	38.45	PASS
BAND 26	1.4MHz	16QAM	26740	3RB#0	22.01	22.86	38.45	PASS
BAND 26	1.4MHz	16QAM	26740	3RB#1	22.14	22.99	38.45	PASS
BAND 26	1.4MHz	16QAM	26740	3RB#3	22.10	22.95	38.45	PASS
BAND 26	1.4MHz	16QAM	26740	6RB#0	21.09	21.94	38.45	PASS
BAND 26	1.4MHz	16QAM	26783	1RB#0	22.16	23.01	38.45	PASS
BAND 26	1.4MHz	16QAM	26783	1RB#2	22.22	23.07	38.45	PASS
BAND 26	1.4MHz	16QAM	26783	1RB#5	22.24	23.09	38.45	PASS
BAND 26	1.4MHz	16QAM	26783	3RB#0	22.09	22.94	38.45	PASS
BAND 26	1.4MHz	16QAM	26783	3RB#1	22.13	22.98	38.45	PASS
BAND 26	1.4MHz	16QAM	26783	3RB#3	21.99	22.84	38.45	PASS
BAND 26	1.4MHz	16QAM	26783	6RB#0	21.09	21.94	38.45	PASS
BAND 26	3MHz	QPSK	26705	1RB#0	22.95	23.80	38.45	PASS
BAND 26	3MHz	QPSK	26705	1RB#8	22.97	23.82	38.45	PASS
BAND 26	3MHz	QPSK	26705	1RB#14	22.01	22.86	38.45	PASS
BAND 26	3MHz	QPSK	26705	8RB#0	22.12	22.97	38.45	PASS
BAND 26	3MHz	QPSK	26705	8RB#4	22.11	22.96	38.45	PASS
BAND 26	3MHz	QPSK	26705	8RB#7	22.09	22.94	38.45	PASS
BAND 26	3MHz	QPSK	26705	15RB#0	22.03	22.88	38.45	PASS
BAND 26	3MHz	QPSK	26740	1RB#0	23.06	23.91	38.45	PASS
BAND 26	3MHz	QPSK	26740	1RB#8	22.98	23.83	38.45	PASS
BAND 26	3MHz	QPSK	26740	1RB#14	21.99	22.84	38.45	PASS
BAND 26	3MHz	QPSK	26740	8RB#0	22.14	22.99	38.45	PASS
BAND 26	3MHz	QPSK	26740	8RB#4	22.14	22.99	38.45	PASS

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

Report No.: SZEM180500453601

Page: 5 of 64

BAND 26	3MHz	QPSK	26740	8RB#7	22.10	22.95	38.45	PASS
BAND 26	3MHz	QPSK	26740	15RB#0	22.07	22.92	38.45	PASS
BAND 26	3MHz	QPSK	26775	1RB#0	23.00	23.85	38.45	PASS
BAND 26	3MHz	QPSK	26775	1RB#8	23.00	23.85	38.45	PASS
BAND 26	3MHz	QPSK	26775	1RB#14	22.00	22.85	38.45	PASS
BAND 26	3MHz	QPSK	26775	8RB#0	22.09	22.94	38.45	PASS
BAND 26	3MHz	QPSK	26775	8RB#4	22.14	22.99	38.45	PASS
BAND 26	3MHz	QPSK	26775	8RB#7	22.15	23.00	38.45	PASS
BAND 26	3MHz	QPSK	26775	15RB#0	22.11	22.96	38.45	PASS
BAND 26	3MHz	64QAM	26705	1RB#0	22.46	23.31	38.45	PASS
BAND 26	3MHz	64QAM	26705	1RB#8	22.42	23.27	38.45	PASS
BAND 26	3MHz	64QAM	26705	1RB#14	21.26	22.11	38.45	PASS
BAND 26	3MHz	64QAM	26705	8RB#0	21.51	22.36	38.45	PASS
BAND 26	3MHz	64QAM	26705	8RB#4	21.41	22.26	38.45	PASS
BAND 26	3MHz	64QAM	26705	8RB#7	21.36	22.21	38.45	PASS
BAND 26	3MHz	64QAM	26705	15RB#0	21.34	22.19	38.45	PASS
BAND 26	3MHz	64QAM	26740	1RB#0	22.35	23.20	38.45	PASS
BAND 26	3MHz	64QAM	26740	1RB#8	22.46	23.31	38.45	PASS
BAND 26	3MHz	64QAM	26740	1RB#14	21.35	22.20	38.45	PASS
BAND 26	3MHz	64QAM	26740	8RB#0	21.46	22.31	38.45	PASS
BAND 26	3MHz	64QAM	26740	8RB#4	21.45	22.30	38.45	PASS
BAND 26	3MHz	64QAM	26740	8RB#7	21.43	22.28	38.45	PASS
BAND 26	3MHz	64QAM	26740	15RB#0	21.33	22.18	38.45	PASS
BAND 26	3MHz	64QAM	26775	1RB#0	22.39	23.24	38.45	PASS
BAND 26	3MHz	64QAM	26775	1RB#8	22.33	23.18	38.45	PASS
BAND 26	3MHz	64QAM	26775	1RB#14	21.37	22.22	38.45	PASS
BAND 26	3MHz	64QAM	26775	8RB#0	21.37	22.22	38.45	PASS
BAND 26	3MHz	64QAM	26775	8RB#4	21.40	22.25	38.45	PASS
BAND 26	3MHz	64QAM	26775	8RB#7	21.41	22.26	38.45	PASS
BAND 26	3MHz	64QAM	26775	15RB#0	21.39	22.24	38.45	PASS
BAND 26	3MHz	16QAM	26705	1RB#0	22.23	23.08	38.45	PASS
BAND 26	3MHz	16QAM	26705	1RB#8	22.21	23.06	38.45	PASS
BAND 26	3MHz	16QAM	26705	1RB#14	21.13	21.98	38.45	PASS
BAND 26	3MHz	16QAM	26705	8RB#0	21.23	22.08	38.45	PASS
BAND 26	3MHz	16QAM	26705	8RB#4	21.08	21.93	38.45	PASS
BAND 26	3MHz	16QAM	26705	8RB#7	21.13	21.98	38.45	PASS
BAND 26	3MHz	16QAM	26705	15RB#0	21.03	21.88	38.45	PASS
BAND 26	3MHz	16QAM	26740	1RB#0	22.35	23.20	38.45	PASS
BAND 26	3MHz	16QAM	26740	1RB#8	22.26	23.11	38.45	PASS
BAND 26	3MHz	16QAM	26740	1RB#14	21.28	22.13	38.45	PASS
BAND 26	3MHz	16QAM	26740	8RB#0	21.22	22.07	38.45	PASS

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

Report No.: SZEM180500453601

Page: 6 of 64

BAND 26	3MHz	16QAM	26740	8RB#4	21.13	21.98	38.45	PASS
BAND 26	3MHz	16QAM	26740	8RB#7	21.15	22.00	38.45	PASS
BAND 26	3MHz	16QAM	26740	15RB#0	21.04	21.89	38.45	PASS
BAND 26	3MHz	16QAM	26775	1RB#0	22.26	23.11	38.45	PASS
BAND 26	3MHz	16QAM	26775	1RB#8	22.20	23.05	38.45	PASS
BAND 26	3MHz	16QAM	26775	1RB#14	21.15	22.00	38.45	PASS
BAND 26	3MHz	16QAM	26775	8RB#0	21.13	21.98	38.45	PASS
BAND 26	3MHz	16QAM	26775	8RB#4	21.16	22.01	38.45	PASS
BAND 26	3MHz	16QAM	26775	8RB#7	21.13	21.98	38.45	PASS
BAND 26	3MHz	16QAM	26775	15RB#0	21.02	21.87	38.45	PASS
BAND 26	5MHz	QPSK	26715	1RB#0	23.02	23.87	38.45	PASS
BAND 26	5MHz	QPSK	26715	1RB#12	23.04	23.89	38.45	PASS
BAND 26	5MHz	QPSK	26715	1RB#24	22.92	23.77	38.45	PASS
BAND 26	5MHz	QPSK	26715	12RB#0	22.18	23.03	38.45	PASS
BAND 26	5MHz	QPSK	26715	12RB#6	22.16	23.01	38.45	PASS
BAND 26	5MHz	QPSK	26715	12RB#13	22.12	22.97	38.45	PASS
BAND 26	5MHz	QPSK	26715	25RB#0	22.11	22.96	38.45	PASS
BAND 26	5MHz	QPSK	26740	1RB#0	23.02	23.87	38.45	PASS
BAND 26	5MHz	QPSK	26740	1RB#12	22.99	23.84	38.45	PASS
BAND 26	5MHz	QPSK	26740	1RB#24	22.96	23.81	38.45	PASS
BAND 26	5MHz	QPSK	26740	12RB#0	22.16	23.01	38.45	PASS
BAND 26	5MHz	QPSK	26740	12RB#6	22.15	23.00	38.45	PASS
BAND 26	5MHz	QPSK	26740	12RB#13	22.08	22.93	38.45	PASS
BAND 26	5MHz	QPSK	26740	25RB#0	22.11	22.96	38.45	PASS
BAND 26	5MHz	QPSK	26765	1RB#0	22.98	23.83	38.45	PASS
BAND 26	5MHz	QPSK	26765	1RB#12	22.96	23.81	38.45	PASS
BAND 26	5MHz	QPSK	26765	1RB#24	22.98	23.83	38.45	PASS
BAND 26	5MHz	QPSK	26765	12RB#0	22.13	22.98	38.45	PASS
BAND 26	5MHz	QPSK	26765	12RB#6	22.11	22.96	38.45	PASS
BAND 26	5MHz	QPSK	26765	12RB#13	22.07	22.92	38.45	PASS
BAND 26	5MHz	QPSK	26765	25RB#0	22.08	22.93	38.45	PASS
BAND 26	5MHz	64QAM	26715	1RB#0	22.50	23.35	38.45	PASS
BAND 26	5MHz	64QAM	26715	1RB#12	22.37	23.22	38.45	PASS
BAND 26	5MHz	64QAM	26715	1RB#24	22.36	23.21	38.45	PASS
BAND 26	5MHz	64QAM	26715	12RB#0	21.51	22.36	38.45	PASS
BAND 26	5MHz	64QAM	26715	12RB#6	21.43	22.28	38.45	PASS
BAND 26	5MHz	64QAM	26715	12RB#13	21.42	22.27	38.45	PASS
BAND 26	5MHz	64QAM	26715	25RB#0	21.39	22.24	38.45	PASS
BAND 26	5MHz	64QAM	26740	1RB#0	22.45	23.30	38.45	PASS
BAND 26	5MHz	64QAM	26740	1RB#12	22.42	23.27	38.45	PASS
BAND 26	5MHz	64QAM	26740	1RB#24	22.45	23.30	38.45	PASS

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

Report No.: SZEM180500453601

Page: 7 of 64

BAND 26	5MHz	64QAM	26740	12RB#0	21.46	22.31	38.45	PASS
BAND 26	5MHz	64QAM	26740	12RB#6	21.42	22.27	38.45	PASS
BAND 26	5MHz	64QAM	26740	12RB#13	21.41	22.26	38.45	PASS
BAND 26	5MHz	64QAM	26740	25RB#0	21.39	22.24	38.45	PASS
BAND 26	5MHz	64QAM	26765	1RB#0	22.44	23.29	38.45	PASS
BAND 26	5MHz	64QAM	26765	1RB#12	22.30	23.15	38.45	PASS
BAND 26	5MHz	64QAM	26765	1RB#24	22.35	23.20	38.45	PASS
BAND 26	5MHz	64QAM	26765	12RB#0	21.41	22.26	38.45	PASS
BAND 26	5MHz	64QAM	26765	12RB#6	21.38	22.23	38.45	PASS
BAND 26	5MHz	64QAM	26765	12RB#13	21.40	22.25	38.45	PASS
BAND 26	5MHz	64QAM	26765	25RB#0	21.36	22.21	38.45	PASS
BAND 26	5MHz	16QAM	26715	1RB#0	22.35	23.20	38.45	PASS
BAND 26	5MHz	16QAM	26715	1RB#12	22.36	23.21	38.45	PASS
BAND 26	5MHz	16QAM	26715	1RB#24	22.22	23.07	38.45	PASS
BAND 26	5MHz	16QAM	26715	12RB#0	21.23	22.08	38.45	PASS
BAND 26	5MHz	16QAM	26715	12RB#6	21.18	22.03	38.45	PASS
BAND 26	5MHz	16QAM	26715	12RB#13	21.16	22.01	38.45	PASS
BAND 26	5MHz	16QAM	26715	25RB#0	21.06	21.91	38.45	PASS
BAND 26	5MHz	16QAM	26740	1RB#0	22.28	23.13	38.45	PASS
BAND 26	5MHz	16QAM	26740	1RB#12	22.22	23.07	38.45	PASS
BAND 26	5MHz	16QAM	26740	1RB#24	22.25	23.10	38.45	PASS
BAND 26	5MHz	16QAM	26740	12RB#0	21.16	22.01	38.45	PASS
BAND 26	5MHz	16QAM	26740	12RB#6	21.17	22.02	38.45	PASS
BAND 26	5MHz	16QAM	26740	12RB#13	21.10	21.95	38.45	PASS
BAND 26	5MHz	16QAM	26740	25RB#0	21.10	21.95	38.45	PASS
BAND 26	5MHz	16QAM	26765	1RB#0	22.34	23.19	38.45	PASS
BAND 26	5MHz	16QAM	26765	1RB#12	22.20	23.05	38.45	PASS
BAND 26	5MHz	16QAM	26765	1RB#24	22.17	23.02	38.45	PASS
BAND 26	5MHz	16QAM	26765	12RB#0	21.17	22.02	38.45	PASS
BAND 26	5MHz	16QAM	26765	12RB#6	21.13	21.98	38.45	PASS
BAND 26	5MHz	16QAM	26765	12RB#13	21.16	22.01	38.45	PASS
BAND 26	5MHz	16QAM	26765	25RB#0	21.07	21.92	38.45	PASS
BAND 26	10MHz	QPSK	26740	1RB#0	23.04	23.89	38.45	PASS
BAND 26	10MHz	QPSK	26740	1RB#24	22.97	23.82	38.45	PASS
BAND 26	10MHz	QPSK	26740	1RB#49	22.90	23.75	38.45	PASS
BAND 26	10MHz	QPSK	26740	25RB#0	22.16	23.01	38.45	PASS
BAND 26	10MHz	QPSK	26740	25RB#12	22.15	23.00	38.45	PASS
BAND 26	10MHz	QPSK	26740	25RB#25	22.14	22.99	38.45	PASS
BAND 26	10MHz	QPSK	26740	50RB#0	22.24	23.09	38.45	PASS
BAND 26	10MHz	64QAM	26740	1RB#0	22.43	23.28	38.45	PASS
BAND 26	10MHz	64QAM	26740	1RB#24	22.36	23.21	38.45	PASS

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



BAND 26	10MHz	64QAM	26740	1RB#49	22.34	23.19	38.45	PASS
BAND 26	10MHz	64QAM	26740	25RB#0	21.38	22.23	38.45	PASS
BAND 26	10MHz	64QAM	26740	25RB#12	21.42	22.27	38.45	PASS
BAND 26	10MHz	64QAM	26740	25RB#25	21.43	22.28	38.45	PASS
BAND 26	10MHz	64QAM	26740	50RB#0	21.47	22.32	38.45	PASS
BAND 26	10MHz	16QAM	26740	1RB#0	22.31	23.16	38.45	PASS
BAND 26	10MHz	16QAM	26740	1RB#24	22.20	23.05	38.45	PASS
BAND 26	10MHz	16QAM	26740	1RB#49	22.20	23.05	38.45	PASS
BAND 26	10MHz	16QAM	26740	25RB#0	21.09	21.94	38.45	PASS
BAND 26	10MHz	16QAM	26740	25RB#12	21.12	21.97	38.45	PASS
BAND 26	10MHz	16QAM	26740	25RB#25	21.08	21.93	38.45	PASS
BAND 26	10MHz	16QAM	26740	50RB#0	21.16	22.01	38.45	PASS

Note:

a: For getting the EIRP (Efficient Isotropic Radiated Power) in substitution method, the following formula should be taken to calculate it,

$$ERP [dBm] = SGP [dBm] - Cable Loss [dB] + Gain [dBd]$$

$$EIRP [dBm] = SGP [dBm] - Cable Loss [dB] + Gain [dBi]$$

b: SGP=Signal Generator Level

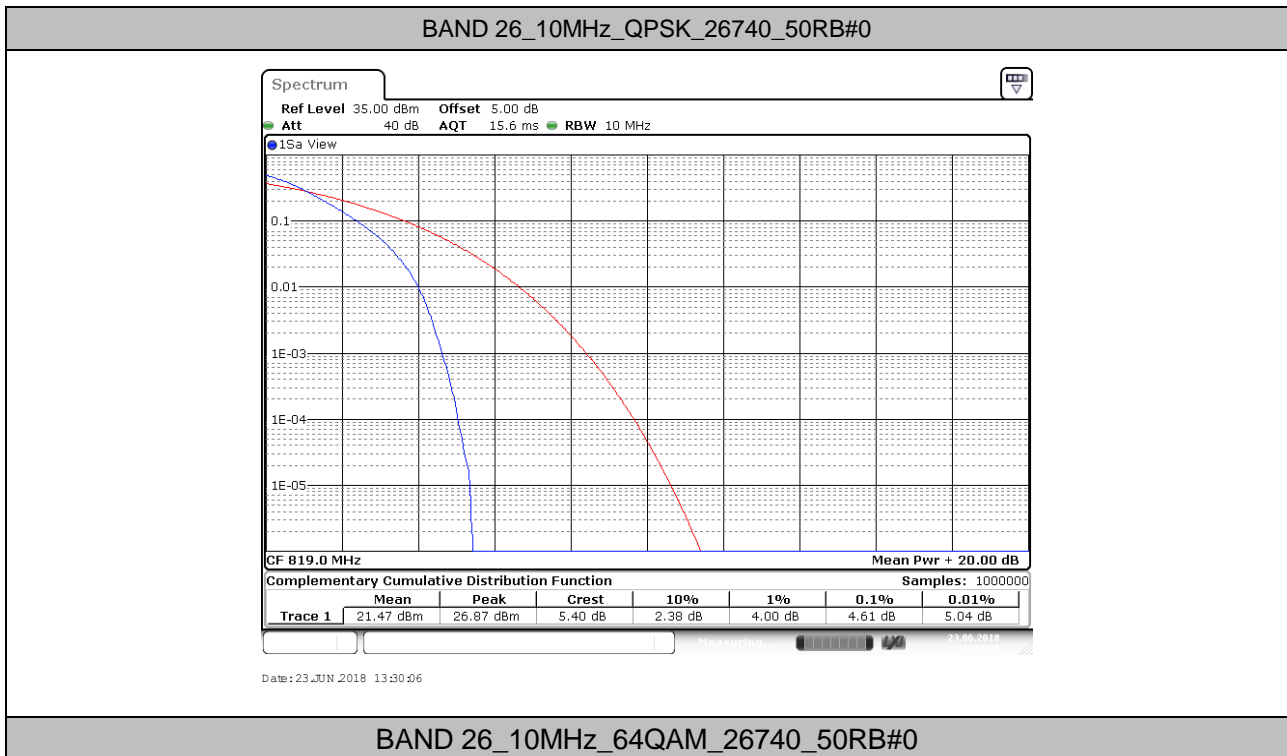


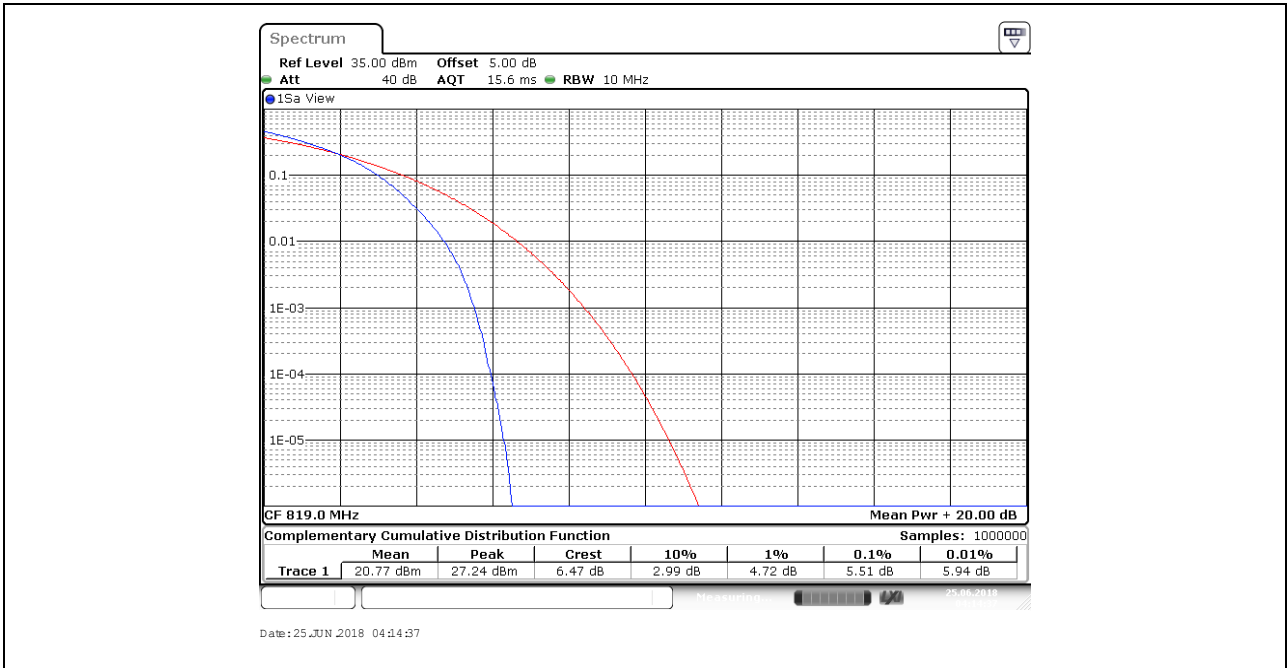
2. Peak-to-Average Ratio(CCDF)

2.1. Test Result

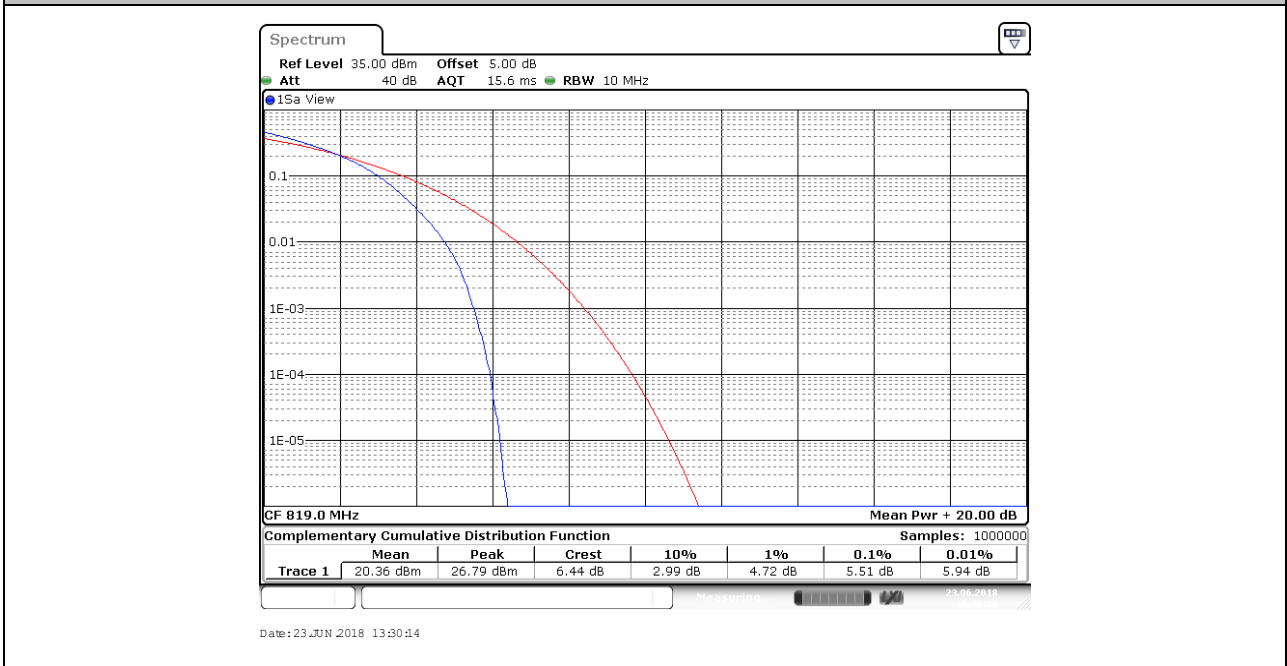
BAND	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
BAND 26	10MHz	QPSK	26740	50RB#0	4.61	13	PASS
BAND 26	10MHz	64QAM	26740	50RB#0	5.51	13	PASS
BAND 26	10MHz	16QAM	26740	50RB#0	5.51	13	PASS

2.2. Test Plots





BAND 26_10MHz_16QAM_26740_50RB#0

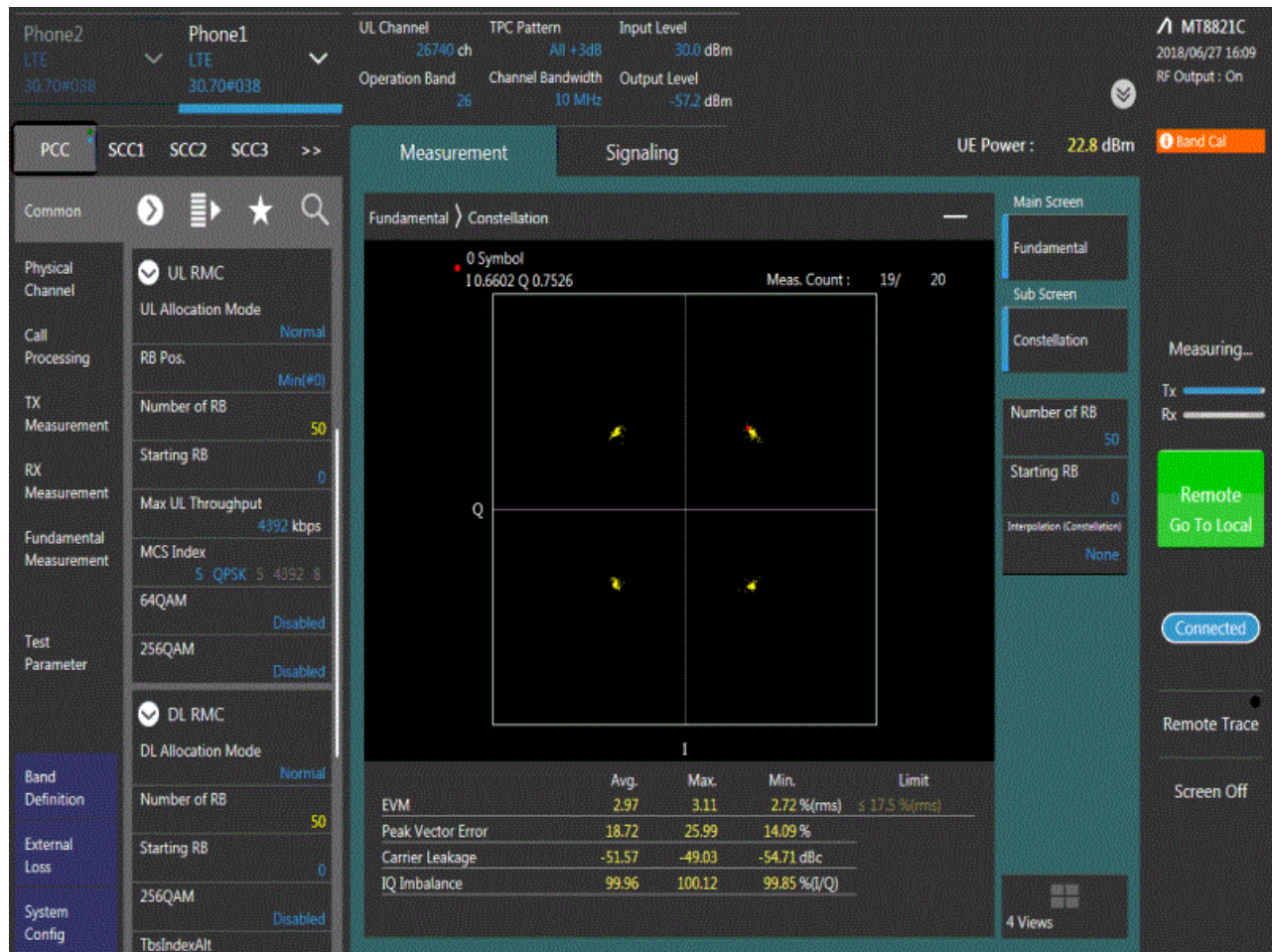


3. Modulation Characteristics

3.1. Test BAND = LTE BAND 26

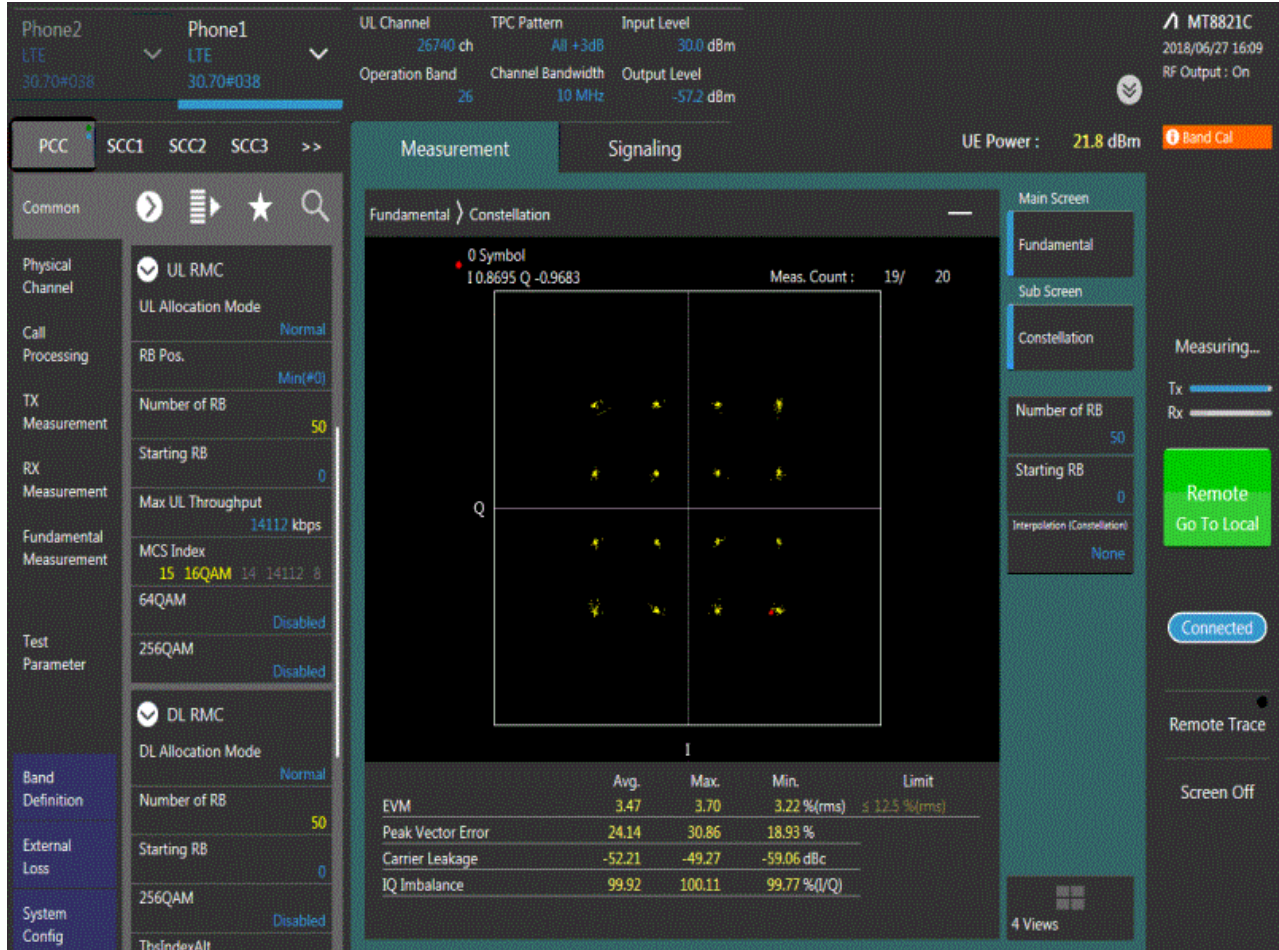
3.1.1. Test Mode = LTE /TM1 10MHz

3.1.1.1. Test Channel = MCH



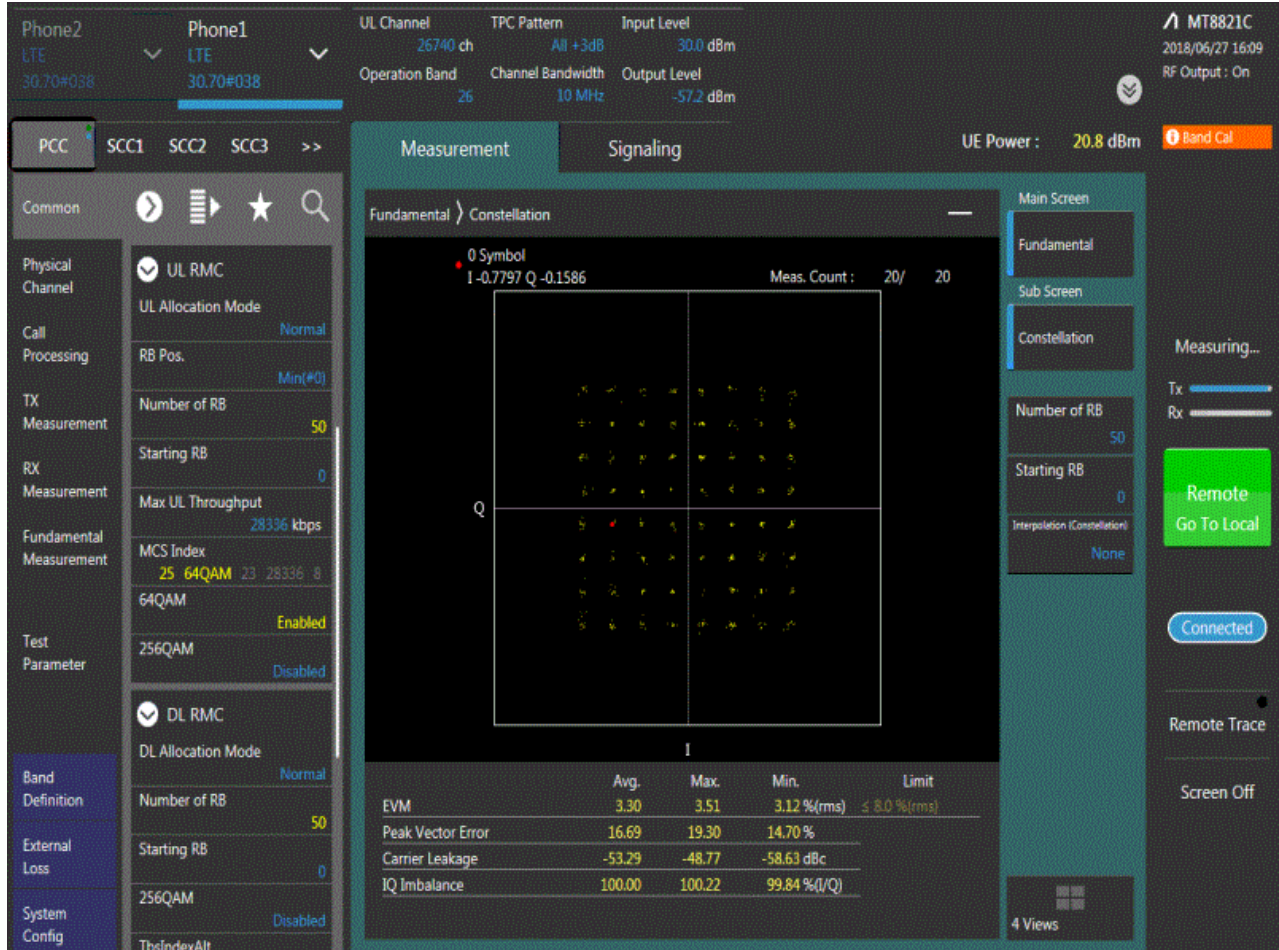
3.1.2. Test Mode = LTE /TM2 10MHz

3.1.2.1. Test Channel = MCH



3.1.3. Test Mode = LTE /TM3 10MHz

3.1.3.1. Test Channel = MCH





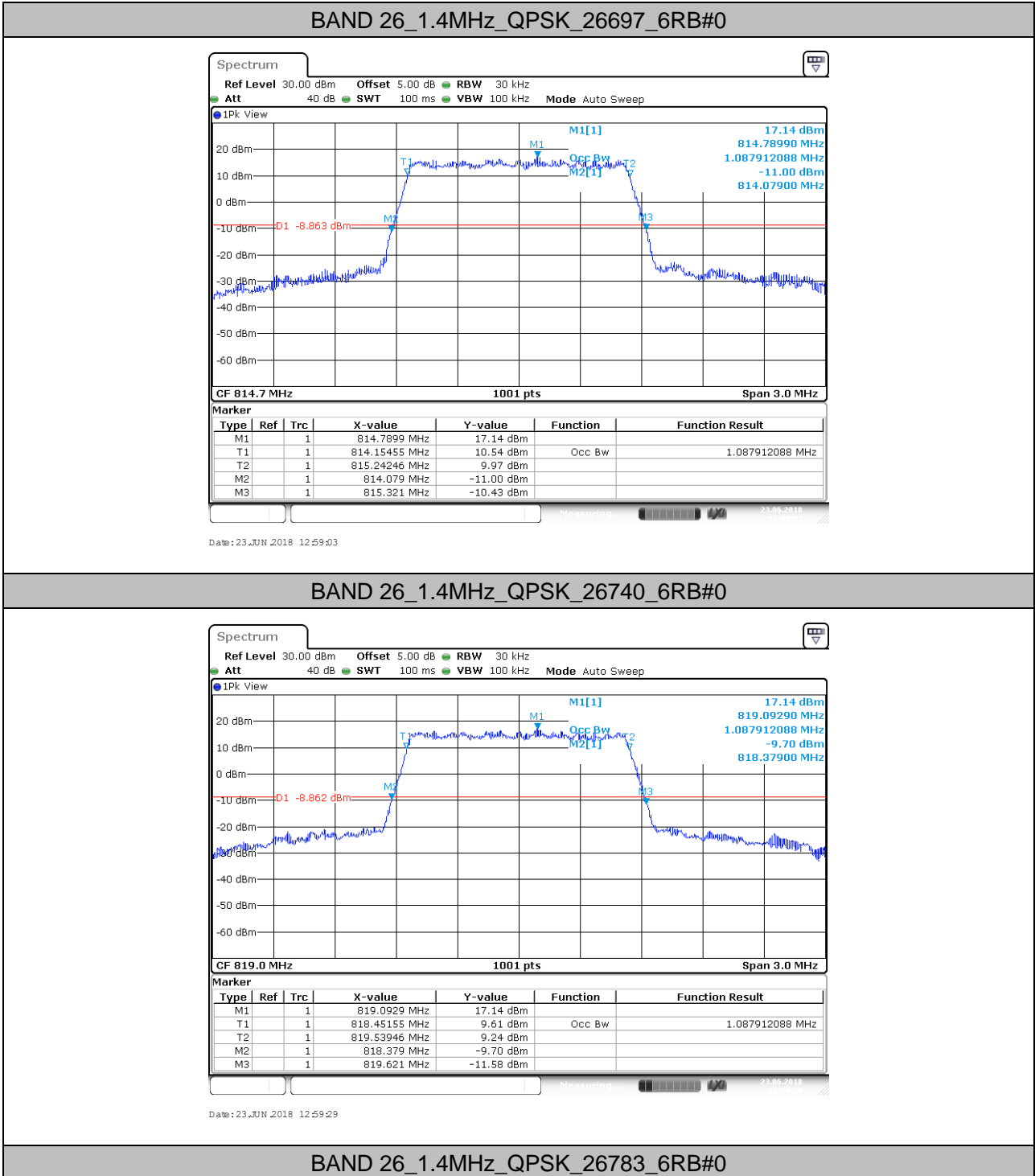
4. 26dB Bandwidth and Occupied Bandwidth

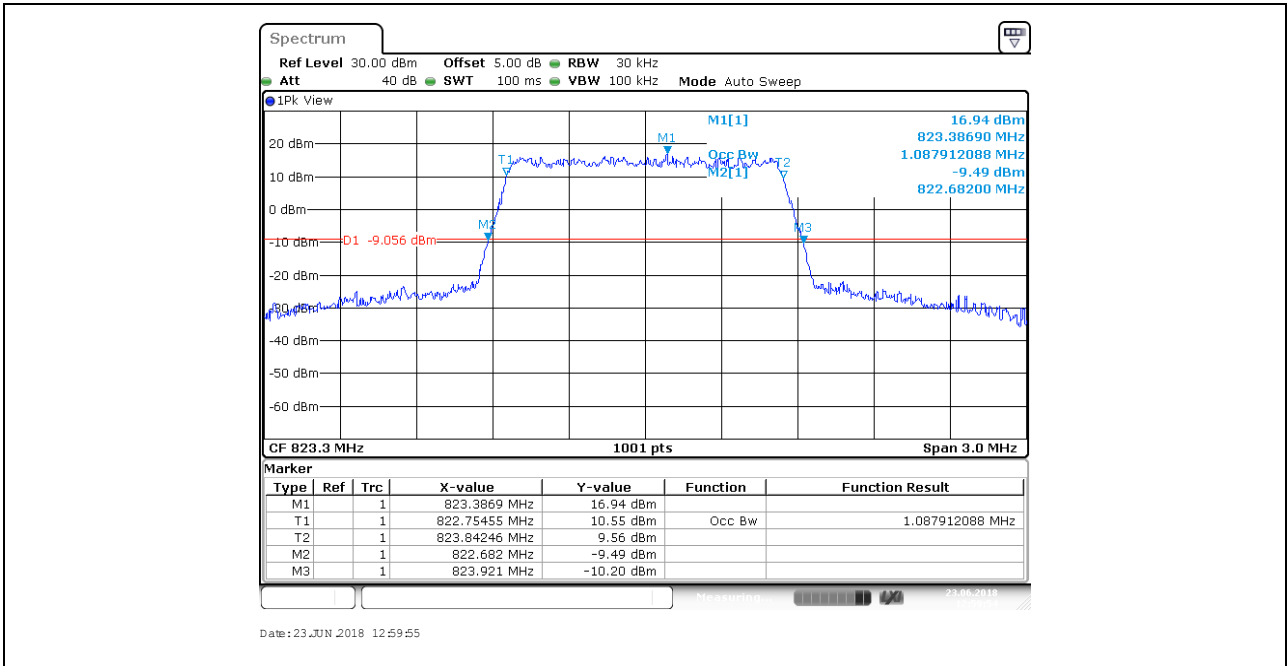
4.1. Test Result

BAND	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
BAND 26	1.4MHz	QPSK	26697	6RB#0	1.088	1.242	PASS
BAND 26	1.4MHz	QPSK	26740	6RB#0	1.088	1.242	PASS
BAND 26	1.4MHz	QPSK	26783	6RB#0	1.088	1.239	PASS
BAND 26	1.4MHz	64QAM	26697	6RB#0	1.088	1.182	PASS
BAND 26	1.4MHz	64QAM	26740	6RB#0	1.085	1.239	PASS
BAND 26	1.4MHz	64QAM	26783	6RB#0	1.085	1.239	PASS
BAND 26	1.4MHz	16QAM	26697	6RB#0	1.085	1.236	PASS
BAND 26	1.4MHz	16QAM	26740	6RB#0	1.088	1.236	PASS
BAND 26	1.4MHz	16QAM	26783	6RB#0	1.085	1.236	PASS
BAND 26	3MHz	QPSK	26705	15RB#0	2.697	3.000	PASS
BAND 26	3MHz	QPSK	26740	15RB#0	2.697	3.006	PASS
BAND 26	3MHz	QPSK	26775	15RB#0	2.703	3.018	PASS
BAND 26	3MHz	64QAM	26705	15RB#0	2.691	2.982	PASS
BAND 26	3MHz	64QAM	26740	15RB#0	2.685	2.982	PASS
BAND 26	3MHz	64QAM	26775	15RB#0	2.691	2.976	PASS
BAND 26	3MHz	16QAM	26705	15RB#0	2.685	2.982	PASS
BAND 26	3MHz	16QAM	26740	15RB#0	2.685	2.994	PASS
BAND 26	3MHz	16QAM	26775	15RB#0	2.685	2.982	PASS
BAND 26	5MHz	QPSK	26715	25RB#0	4.476	4.860	PASS
BAND 26	5MHz	QPSK	26740	25RB#0	4.476	4.900	PASS
BAND 26	5MHz	QPSK	26765	25RB#0	4.476	4.900	PASS
BAND 26	5MHz	64QAM	26715	25RB#0	4.466	4.920	PASS
BAND 26	5MHz	64QAM	26740	25RB#0	4.476	4.950	PASS
BAND 26	5MHz	64QAM	26765	25RB#0	4.476	4.960	PASS
BAND 26	5MHz	16QAM	26715	25RB#0	4.486	4.920	PASS
BAND 26	5MHz	16QAM	26740	25RB#0	4.486	4.910	PASS
BAND 26	5MHz	16QAM	26765	25RB#0	4.496	4.920	PASS
BAND 26	10MHz	QPSK	26740	50RB#0	8.911	9.700	PASS
BAND 26	10MHz	64QAM	26740	50RB#0	8.931	9.720	PASS
BAND 26	10MHz	16QAM	26740	50RB#0	8.931	9.720	PASS

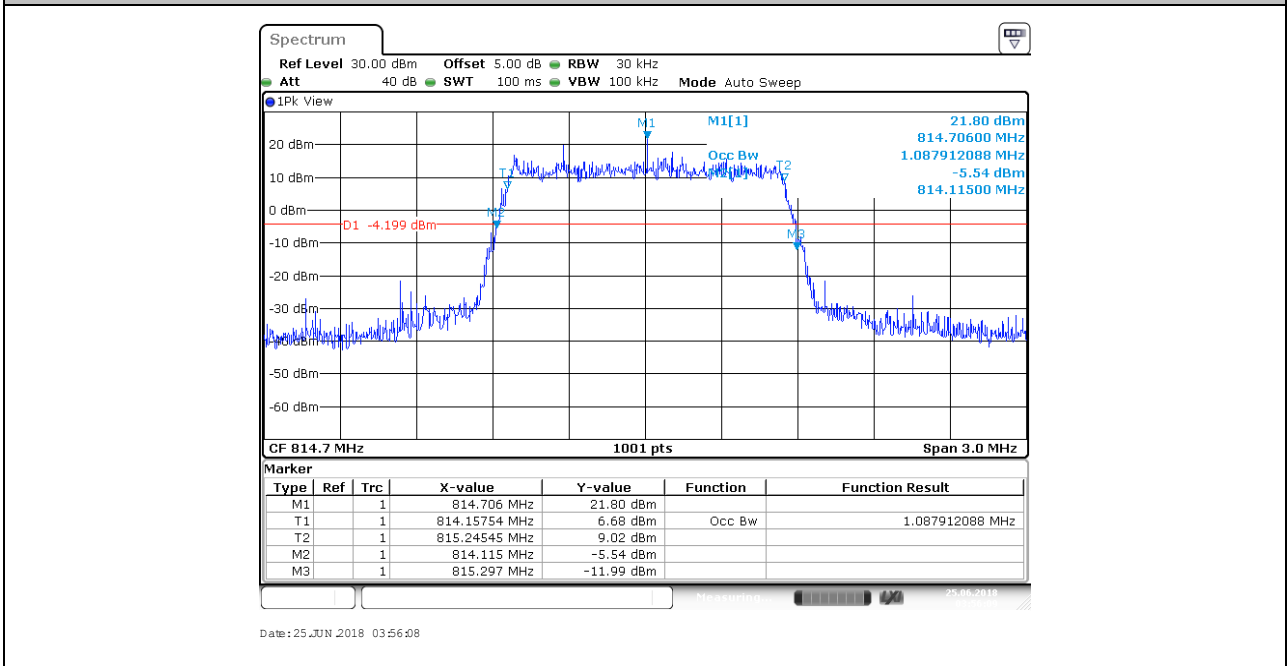


4.2. Test Plots

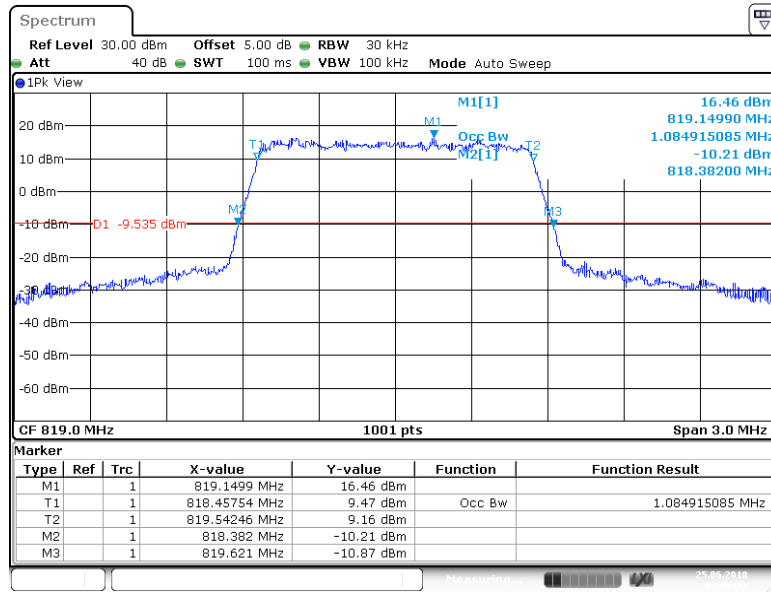




BAND 26_1.4MHz_64QAM_26697_6RB#0

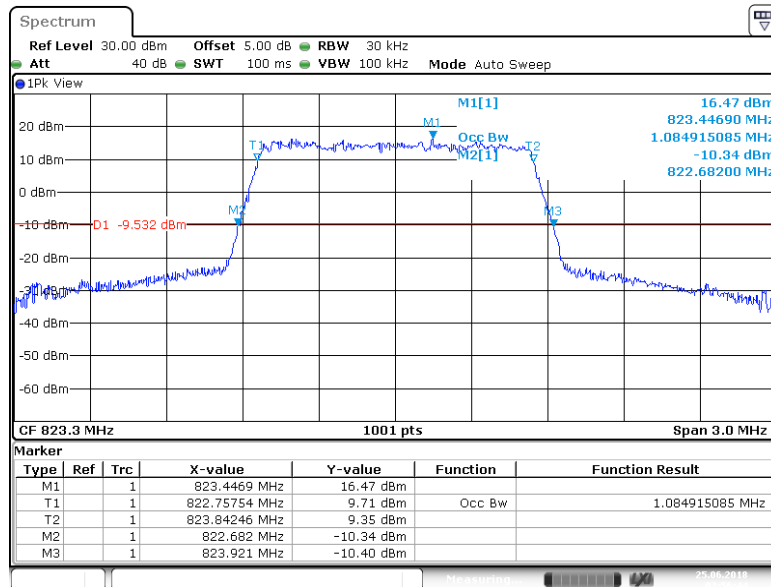


BAND 26_1.4MHz_64QAM_26740_6RB#0



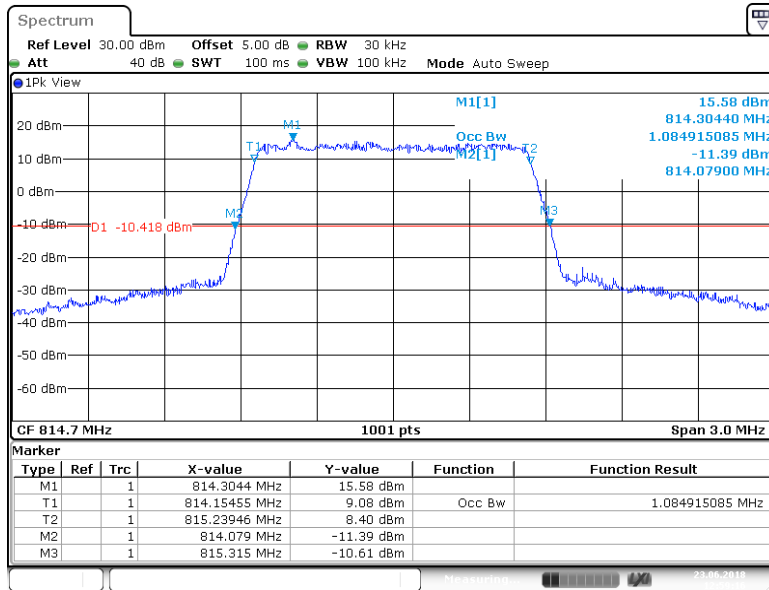
Date: 25 JUN 2018 03:56:31

BAND 26_1.4MHz_64QAM_26783_6RB#0



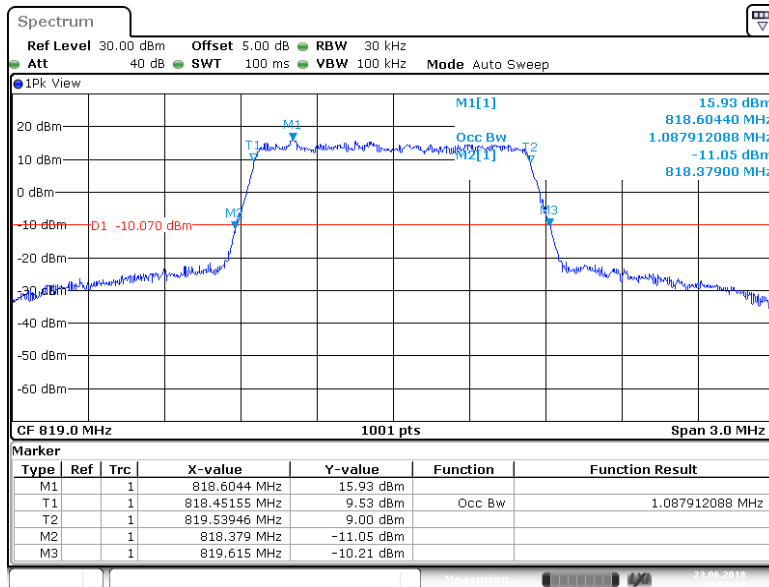
Date: 25 JUN 2018 03:56:44

BAND 26_1.4MHz_16QAM_26697_6RB#0



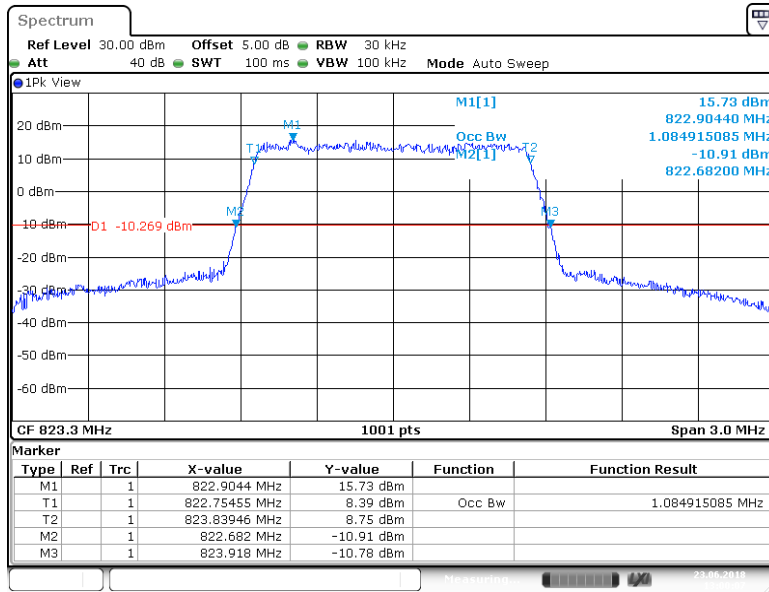
Date: 23 JUN 2018 12:59:16

BAND 26_1.4MHz_16QAM_26740_6RB#0



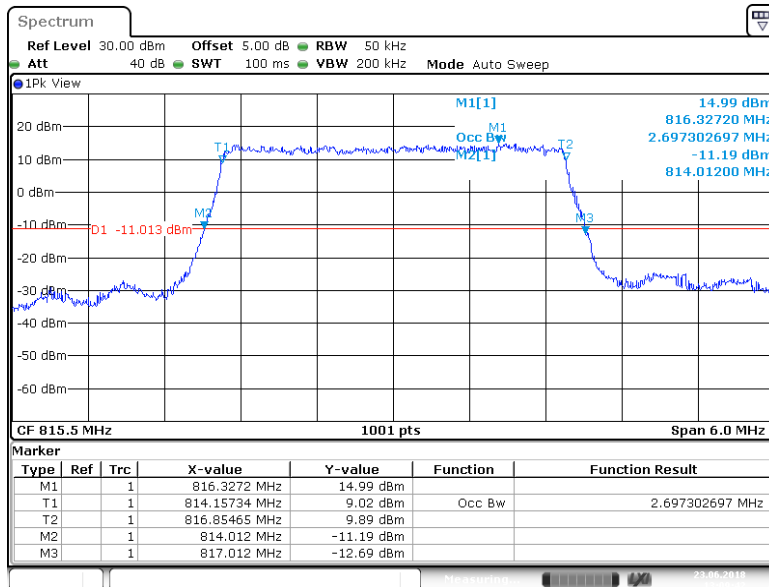
Date: 23 JUN 2018 12:59:42

BAND 26_1.4MHz_16QAM_26783_6RB#0



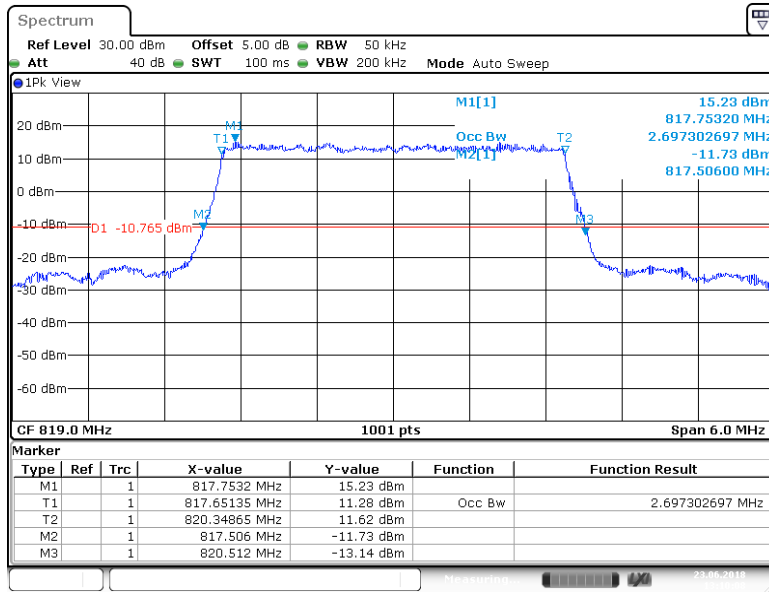
Date: 23 JUN 2018 13:50:08

BAND 26_3MHz_QPSK_26705_15RB#0



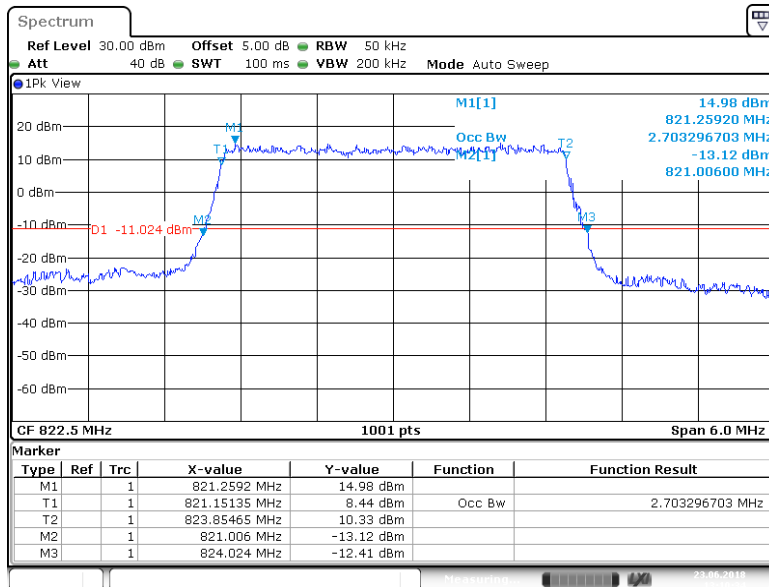
Date: 23 JUN 2018 13:59:43

BAND 26_3MHz_QPSK_26740_15RB#0



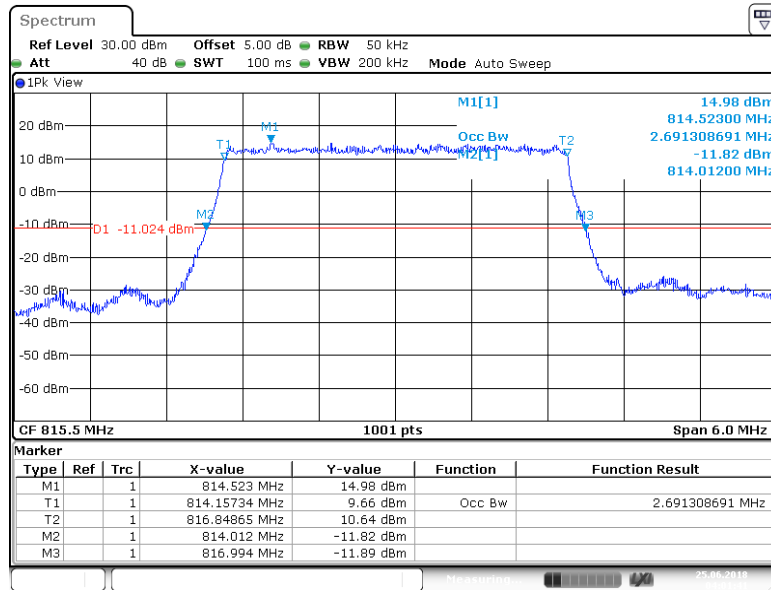
Date: 23 JUN 2018 13:10:08

BAND 26_3MHz_QPSK_26775_15RB#0



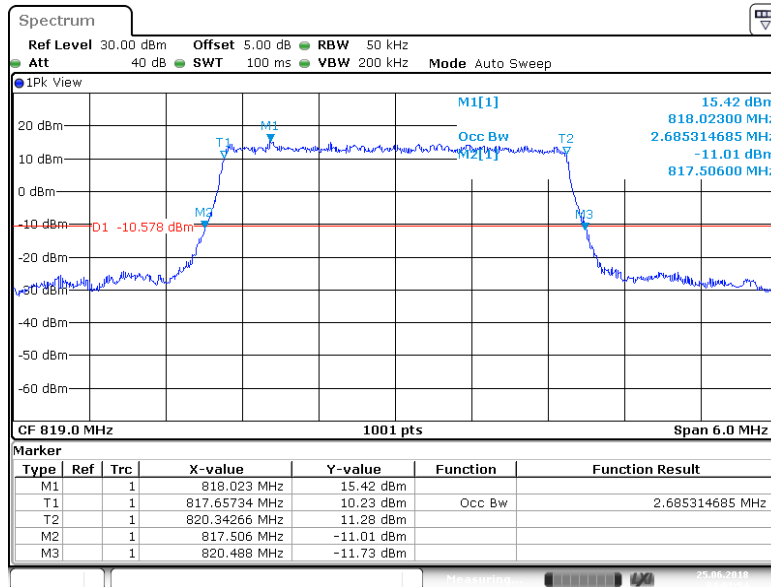
Date: 23 JUN 2018 13:10:34

BAND 26_3MHz_64QAM_26705_15RB#0



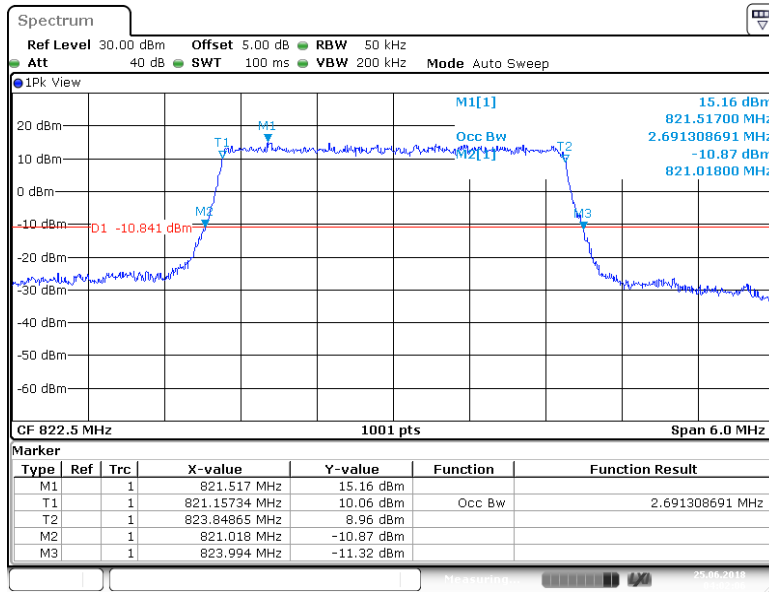
Date: 25 JUN 2018 04:01:42

BAND 26_3MHz_64QAM_26740_15RB#0



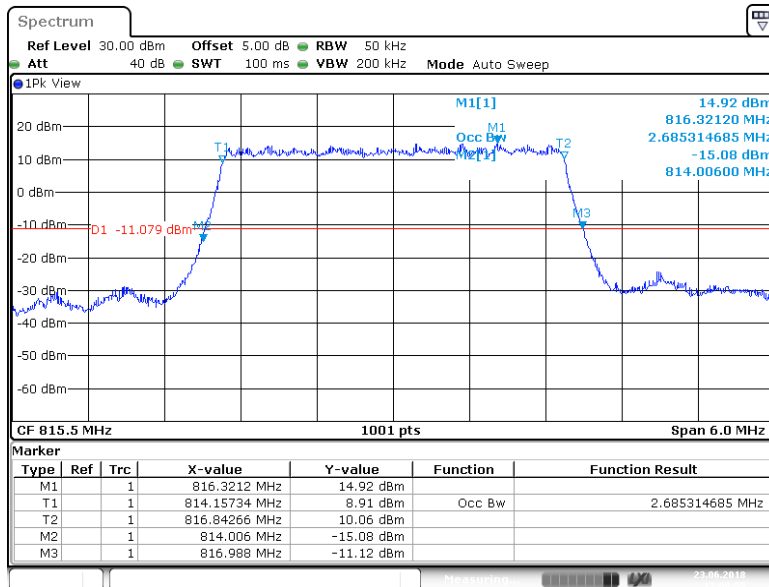
Date: 25 JUN 2018 04:01:54

BAND 26_3MHz_64QAM_26775_15RB#0



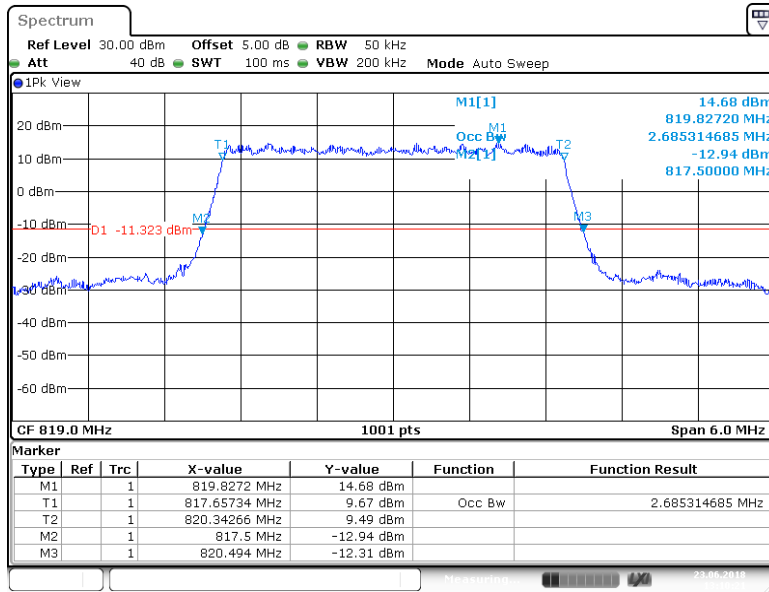
Date: 25 JUN 2018 04:02:07

BAND 26_3MHz_16QAM_26705_15RB#0



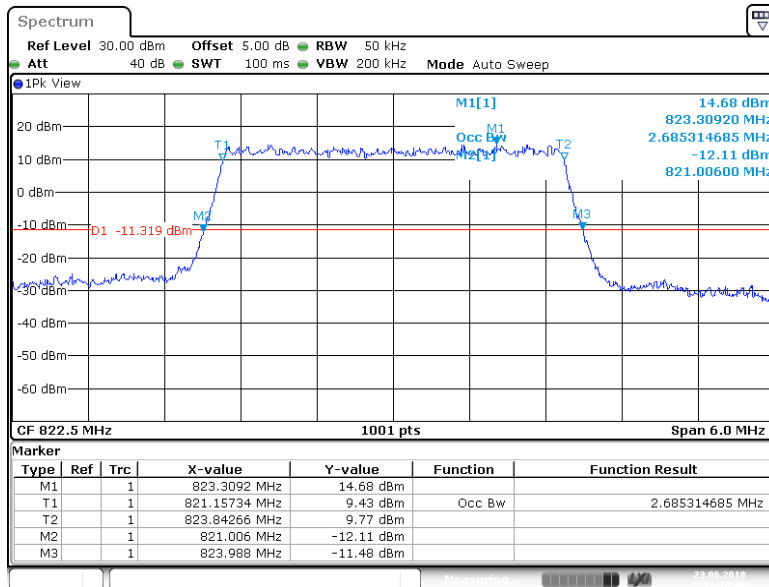
Date: 23 JUN 2018 13:09:55

BAND 26_3MHz_16QAM_26740_15RB#0



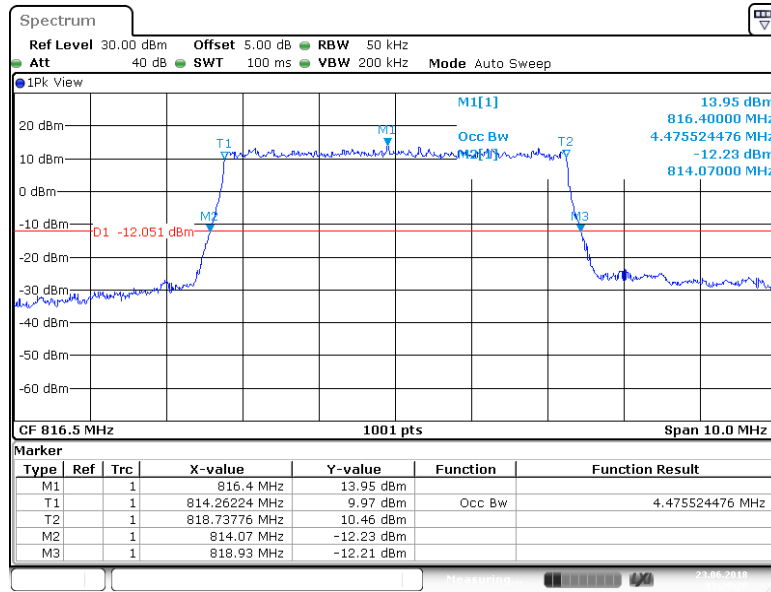
Date: 23 JUN 2018 13:10:21

BAND 26_3MHz_16QAM_26775_15RB#0

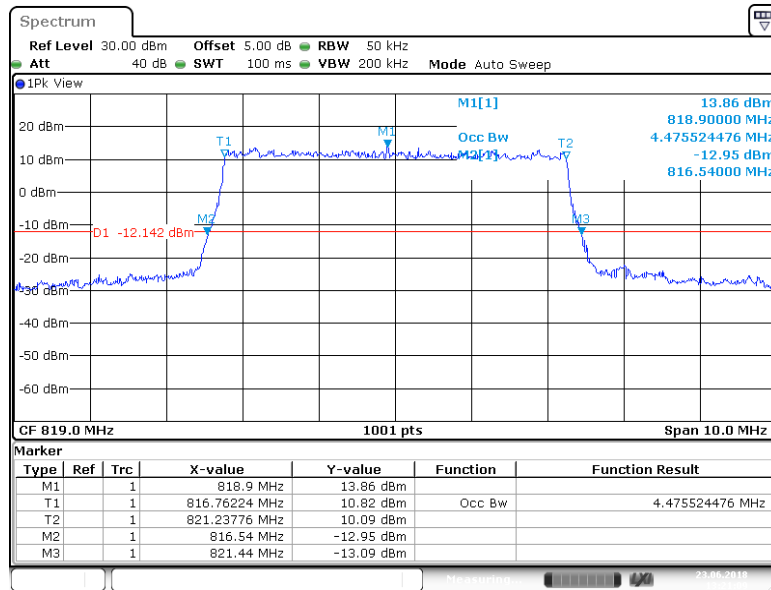


Date: 23 JUN 2018 13:10:47

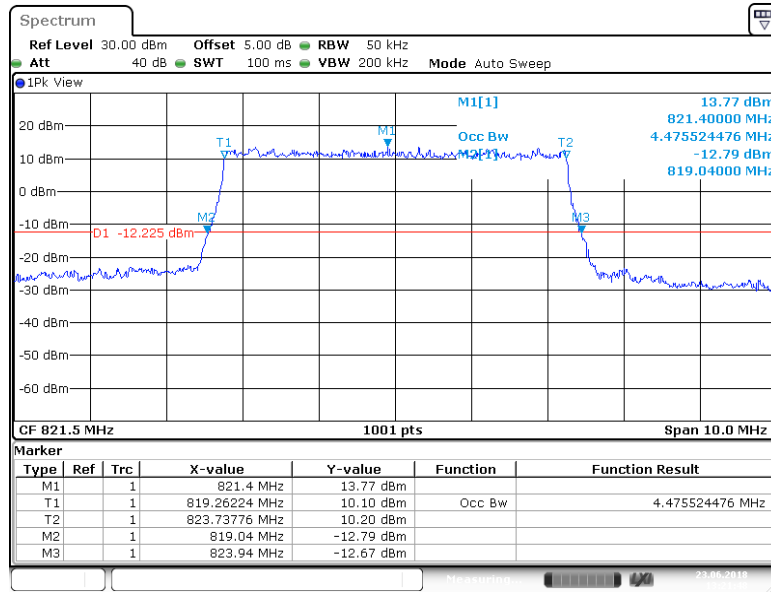
BAND 26_5MHz_QPSK_26715_25RB#0



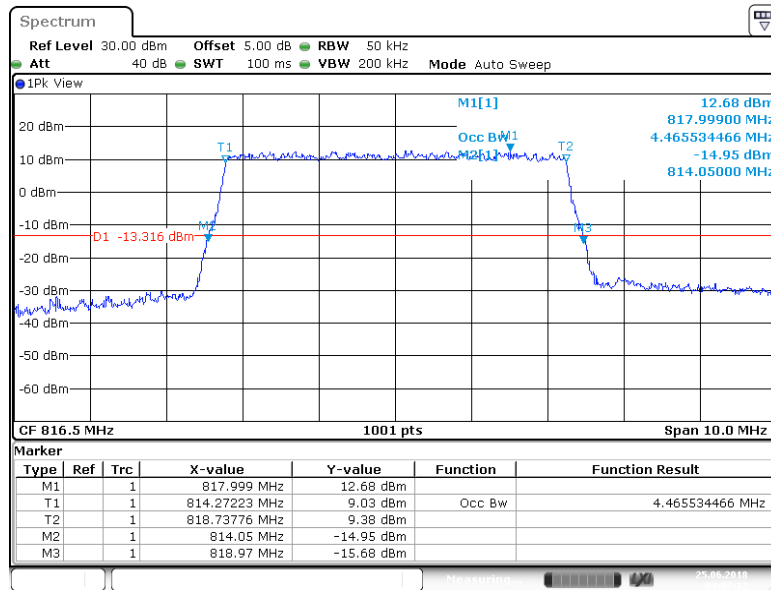
BAND 26_5MHz_QPSK_26740_25RB#0



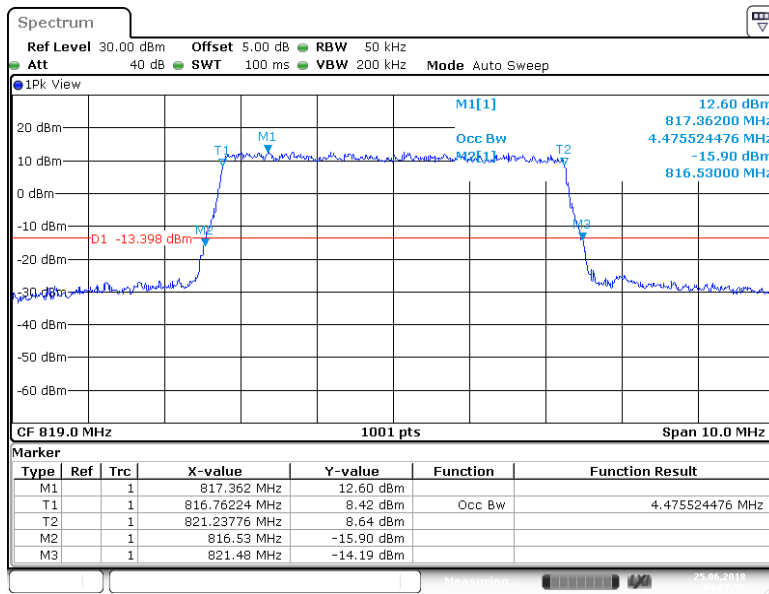
BAND 26_5MHz_QPSK_26765_25RB#0



BAND 26_5MHz_64QAM_26715_25RB#0

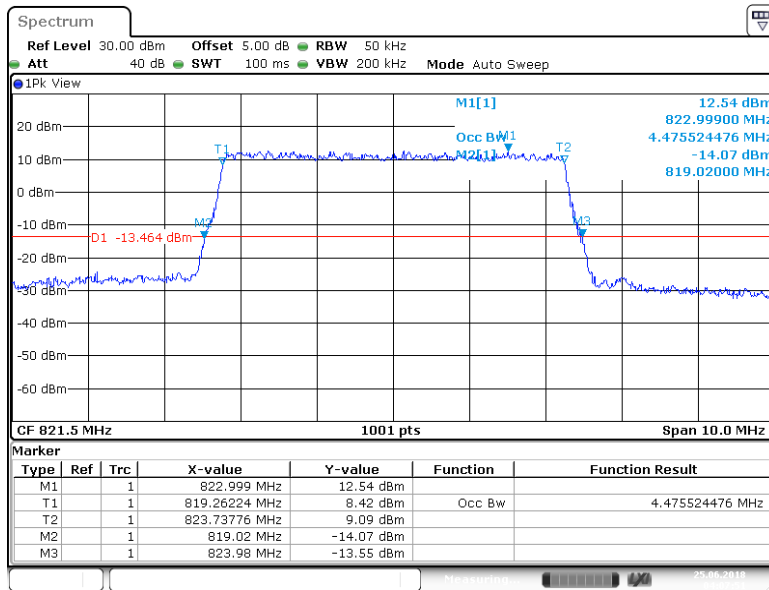


BAND 26_5MHz_64QAM_26740_25RB#0



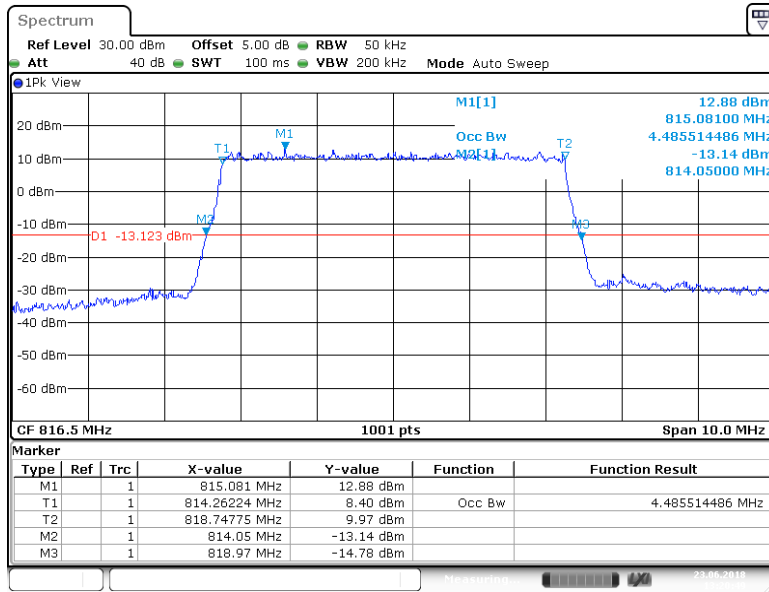
Date: 25 JUN 2018 04:07:32

BAND 26_5MHz_64QAM_26765_25RB#0



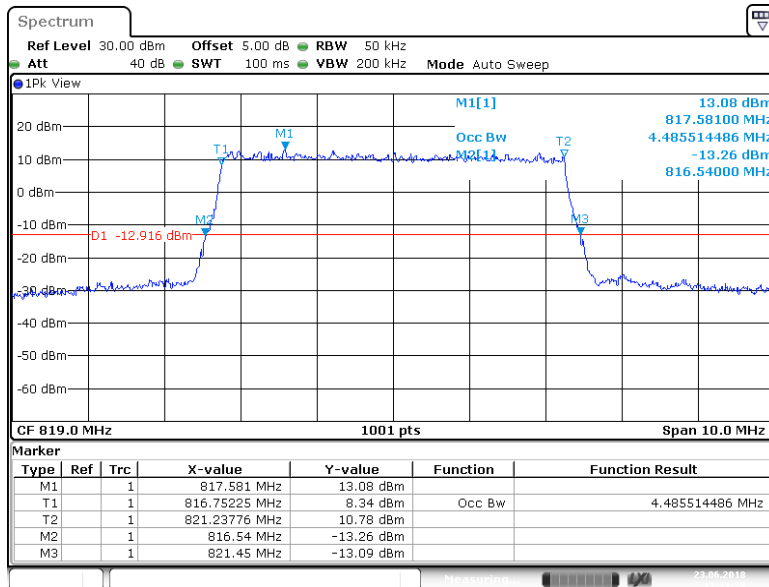
Date: 25 JUN 2018 04:07:52

BAND 26_5MHz_16QAM_26715_25RB#0



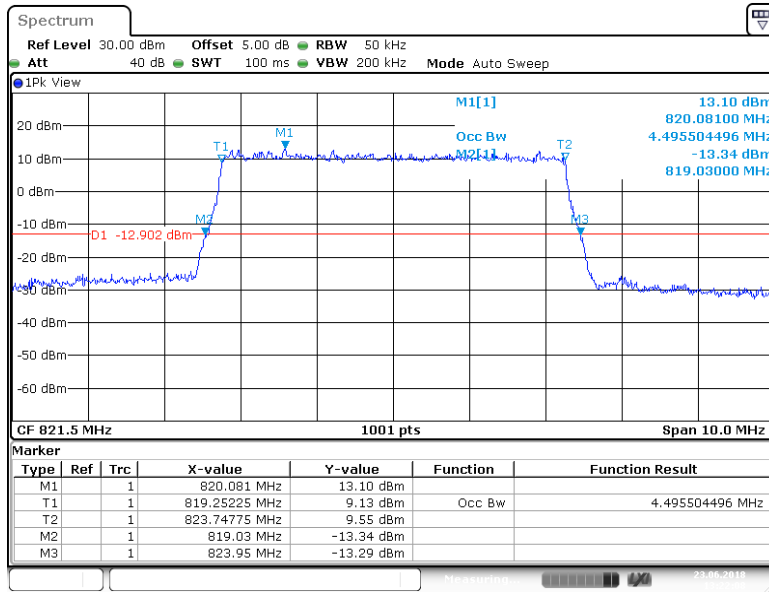
Date: 23 JUN 2018 13:20:49

BAND 26_5MHz_16QAM_26740_25RB#0



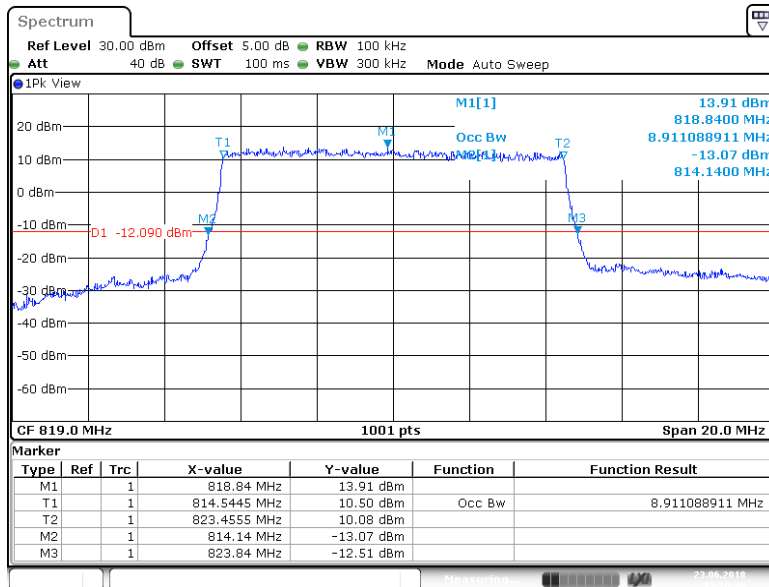
Date: 23 JUN 2018 13:21:29

BAND 26_5MHz_16QAM_26765_25RB#0



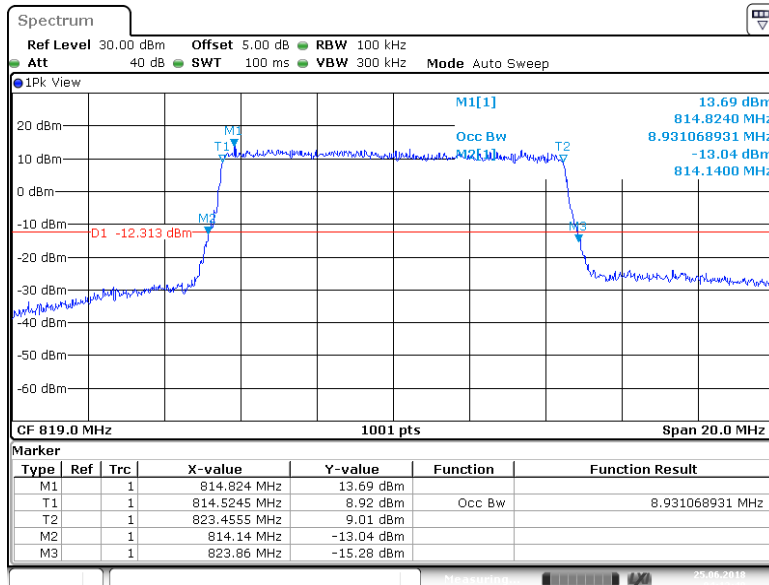
Date: 23 JUN 2018 13:22:08

BAND 26_10MHz_QPSK_26740_50RB#0

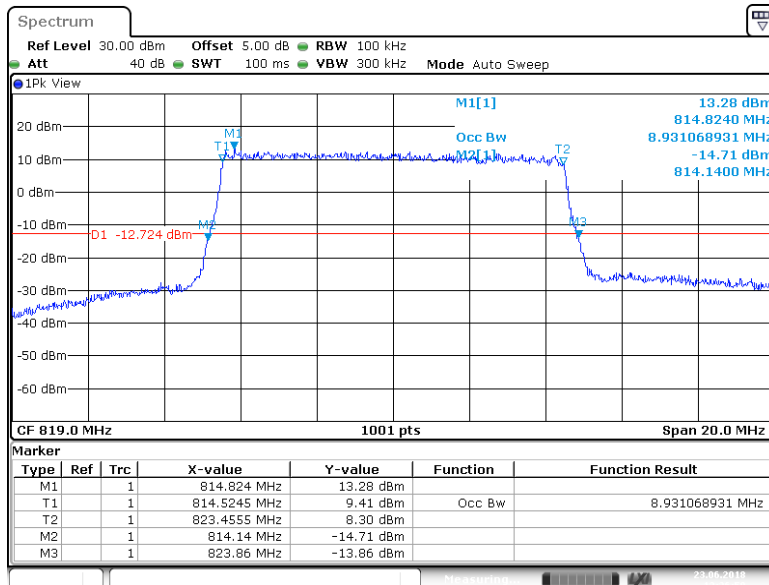


Date: 23 JUN 2018 13:26:37

BAND 26_10MHz_64QAM_26740_50RB#0

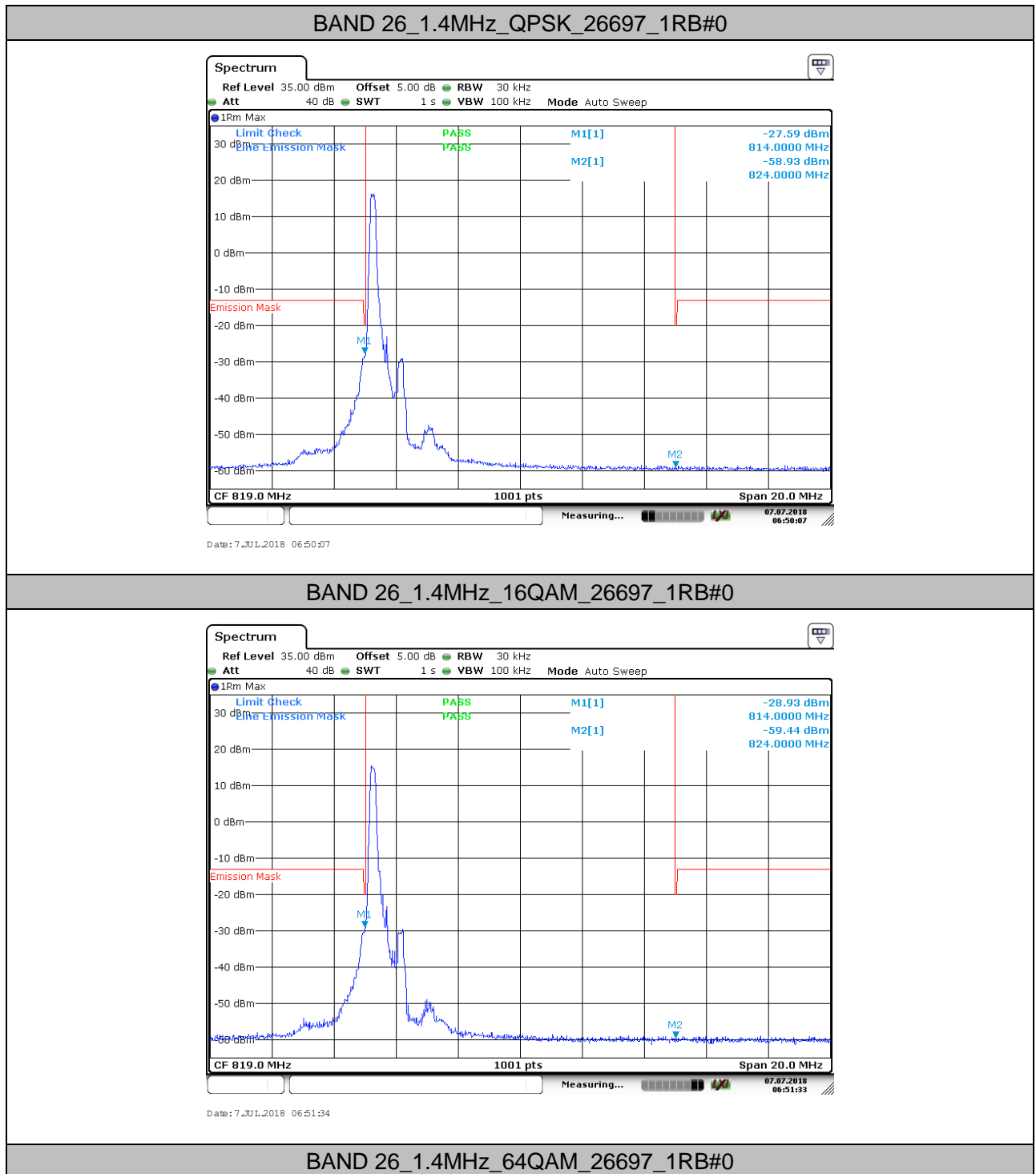


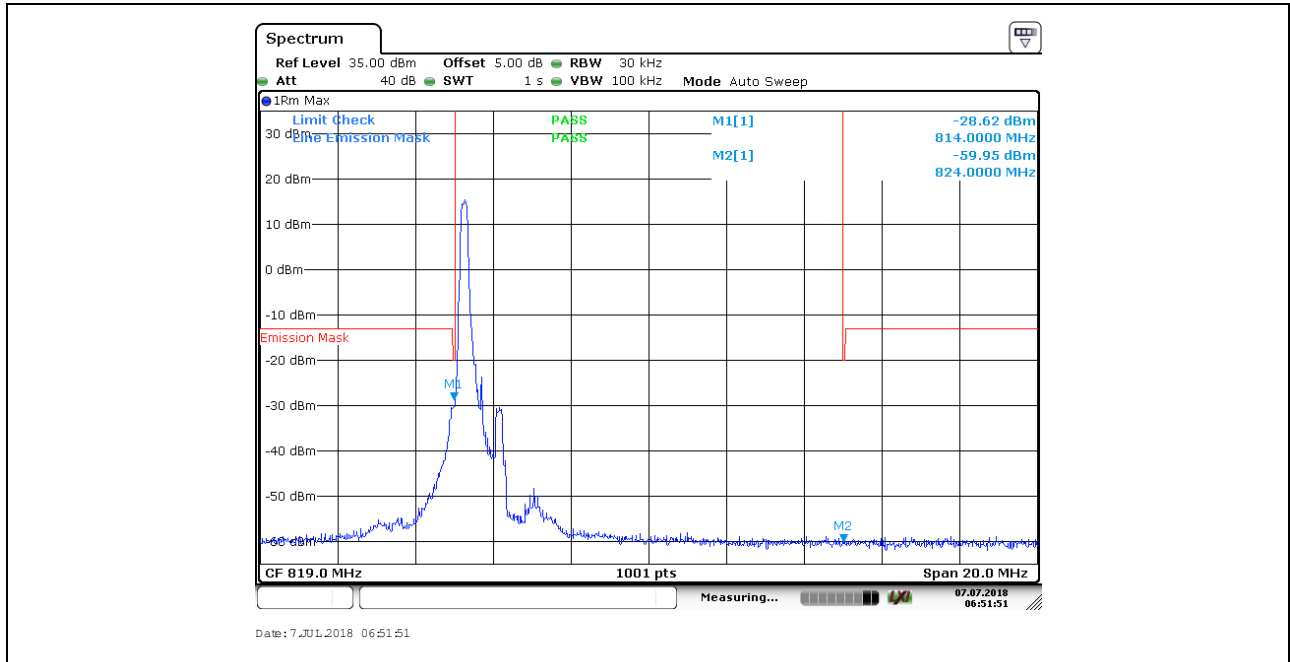
BAND 26_10MHz_16QAM_26740_50RB#0



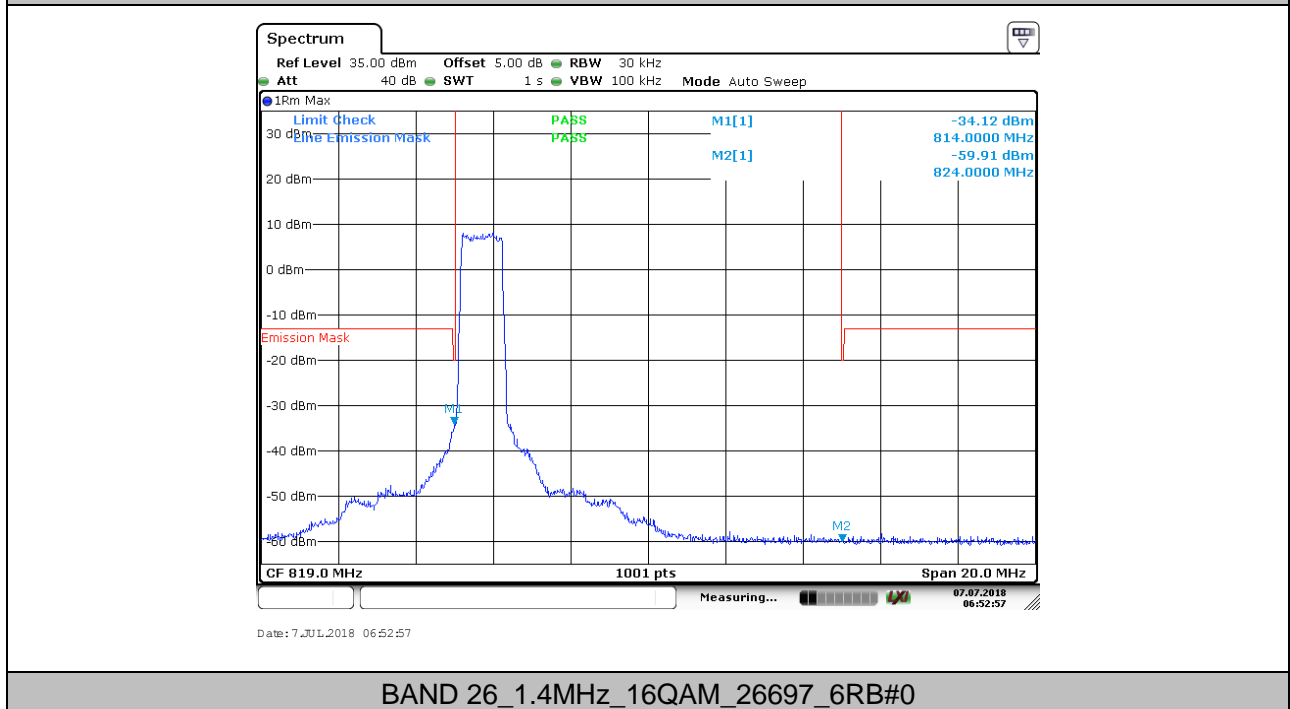
5. Band Edge Compliance

5.1. Test Result

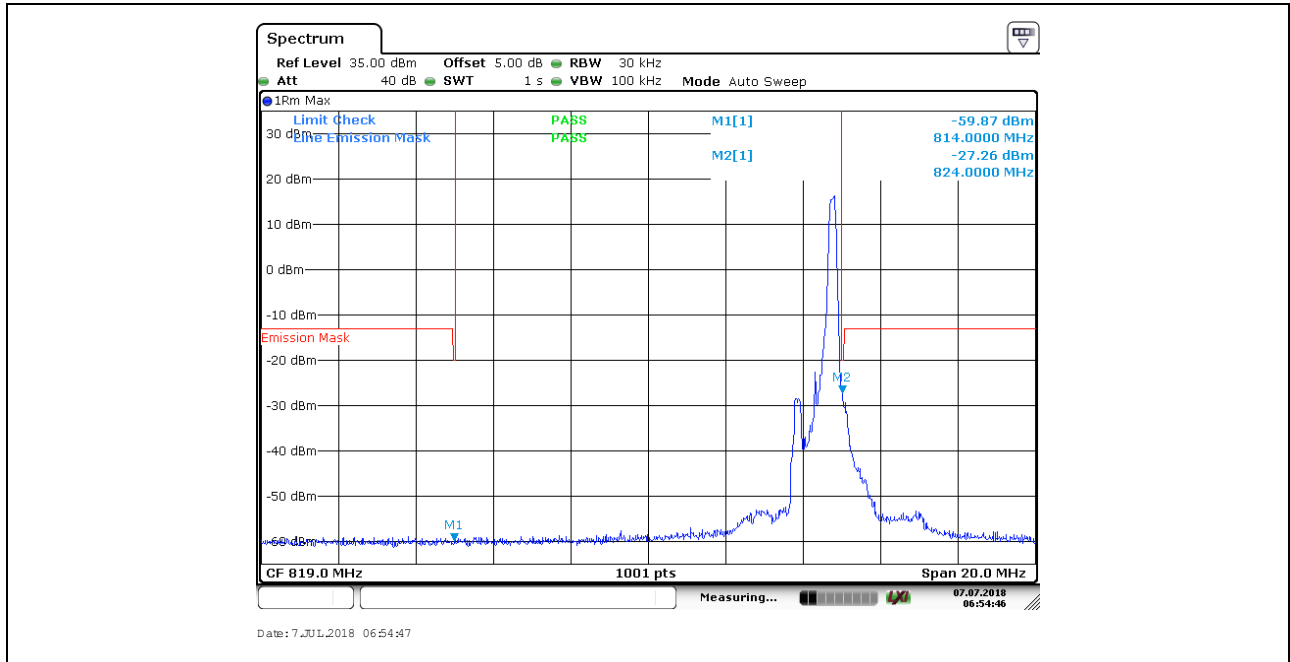




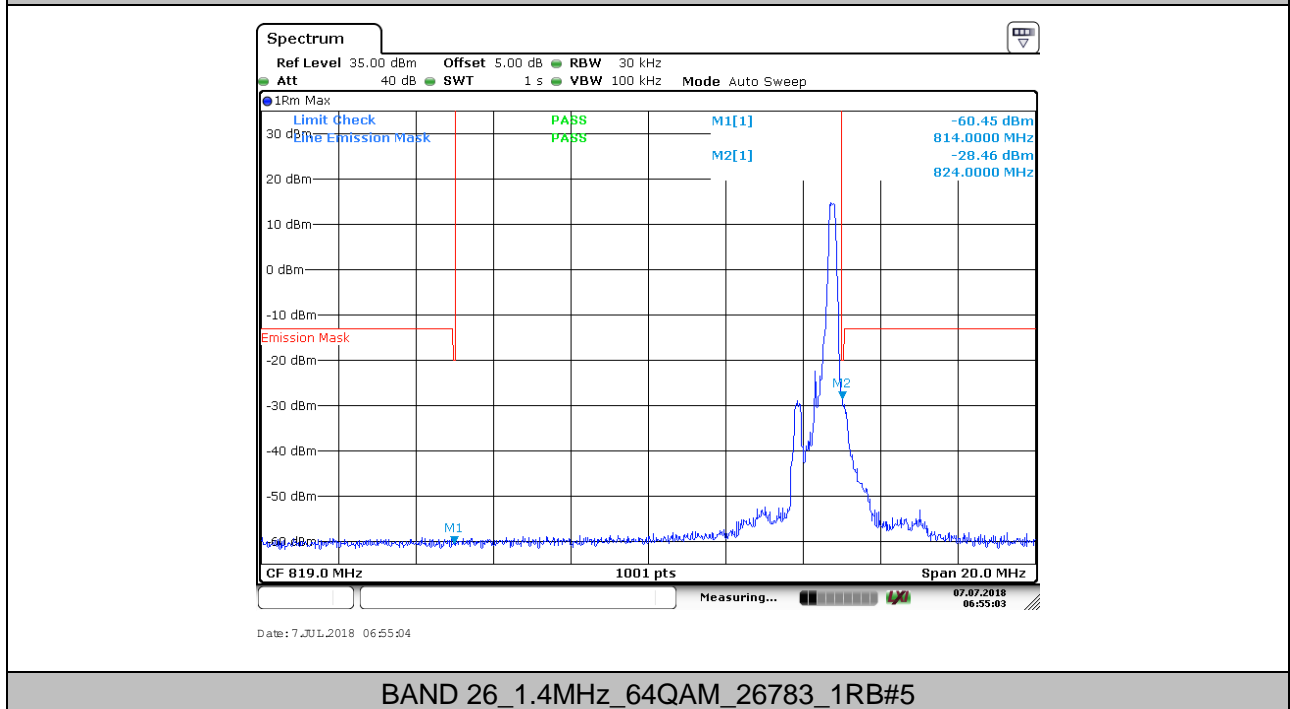
BAND 26_1.4MHz_QPSK_26697_6RB#0



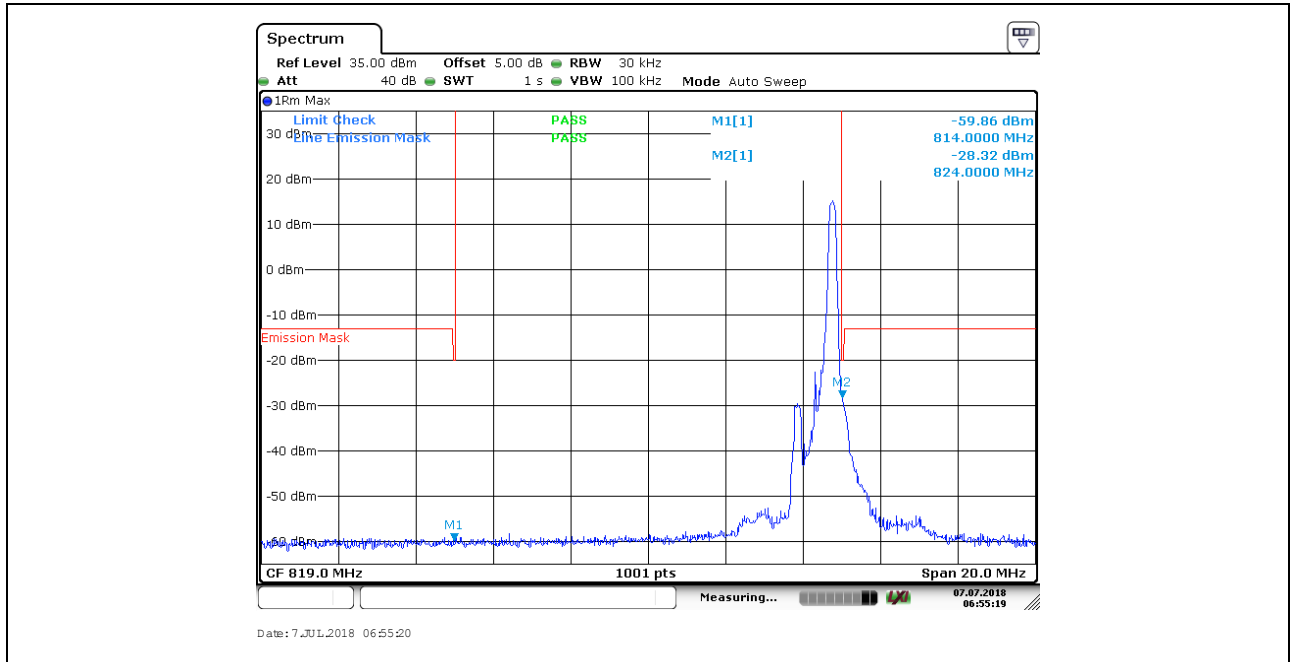
BAND 26_1.4MHz_16QAM_26697_6RB#0



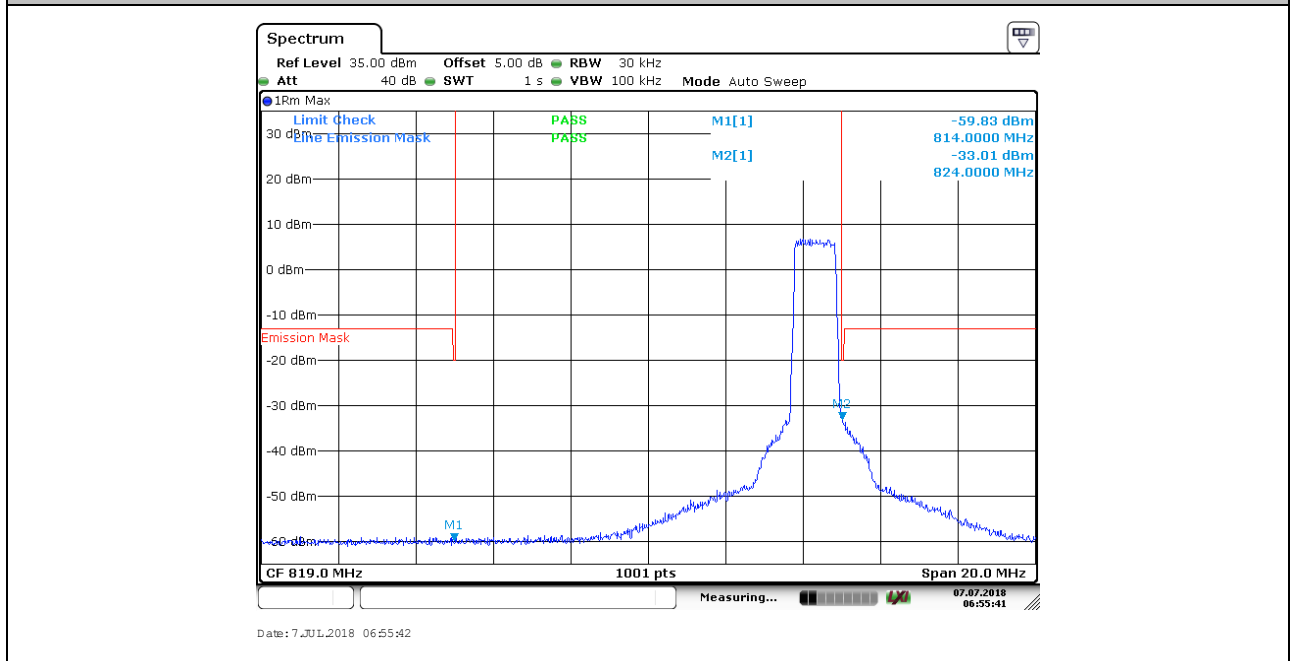
BAND 26_1.4MHz_16QAM_26783_1RB#5



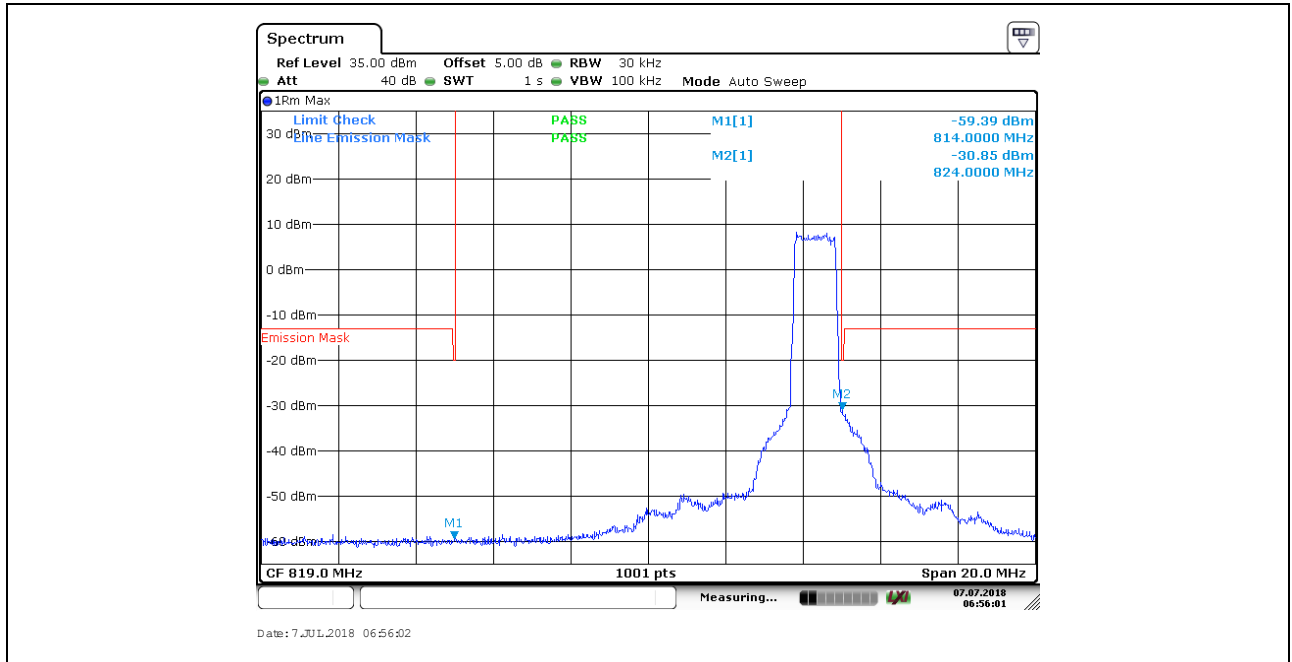
BAND 26_1.4MHz_64QAM_26783_1RB#5



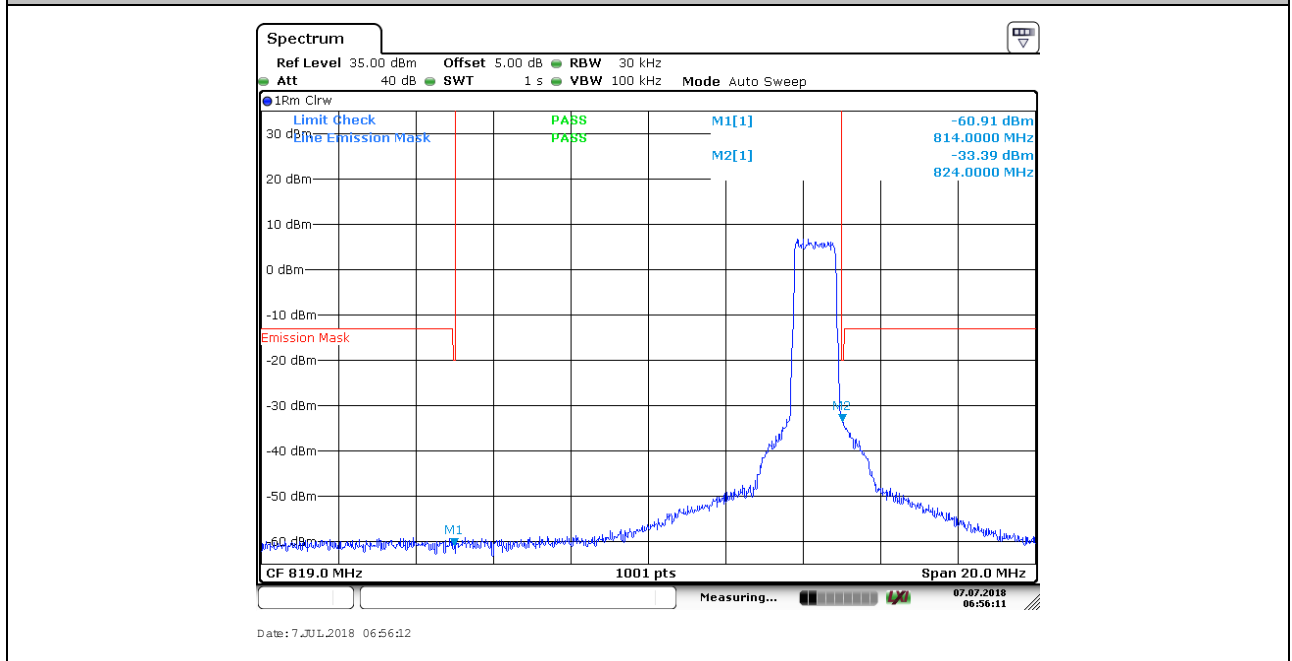
BAND 26_1.4MHz_QPSK_26783_6RB#0



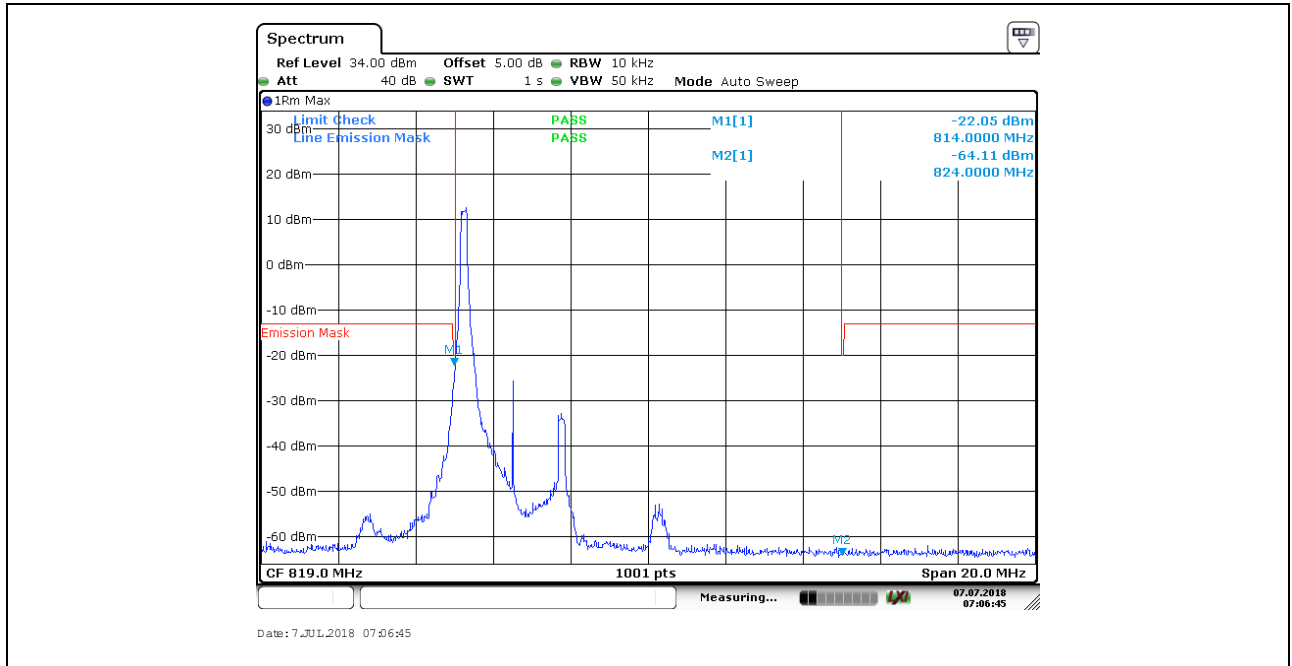
BAND 26_1.4MHz_16QAM_26783_6RB#0



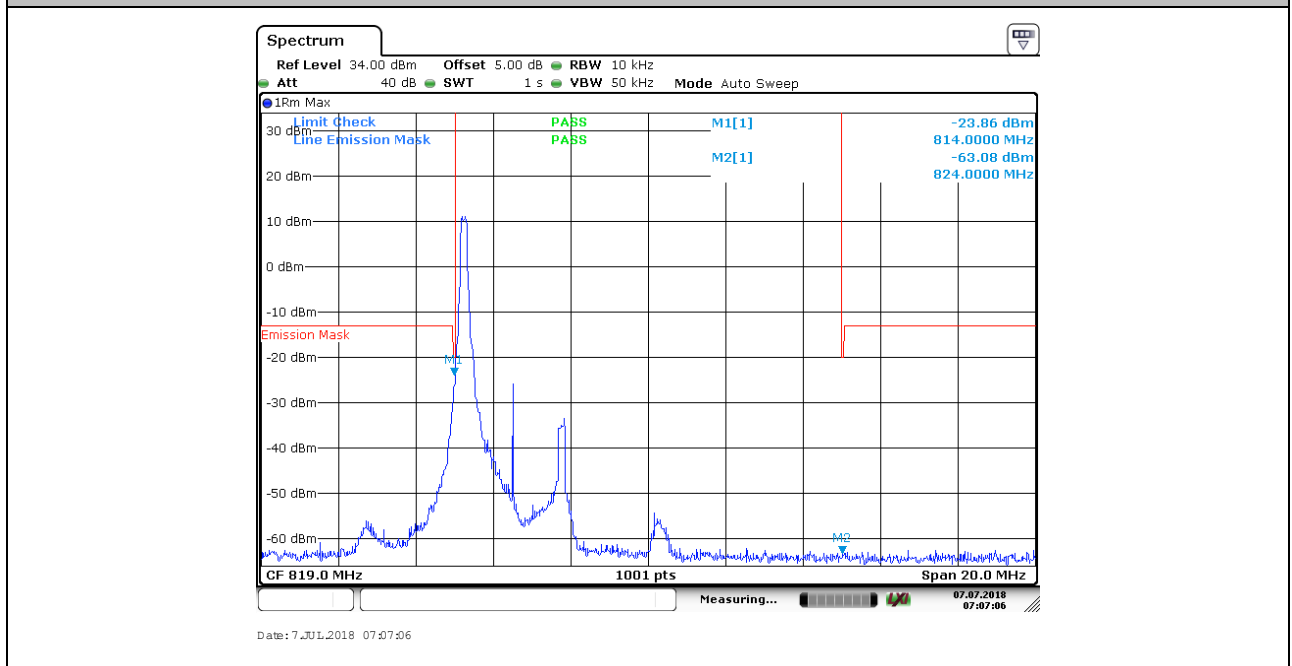
BAND 26_1.4MHz_64QAM_26783_6RB#0



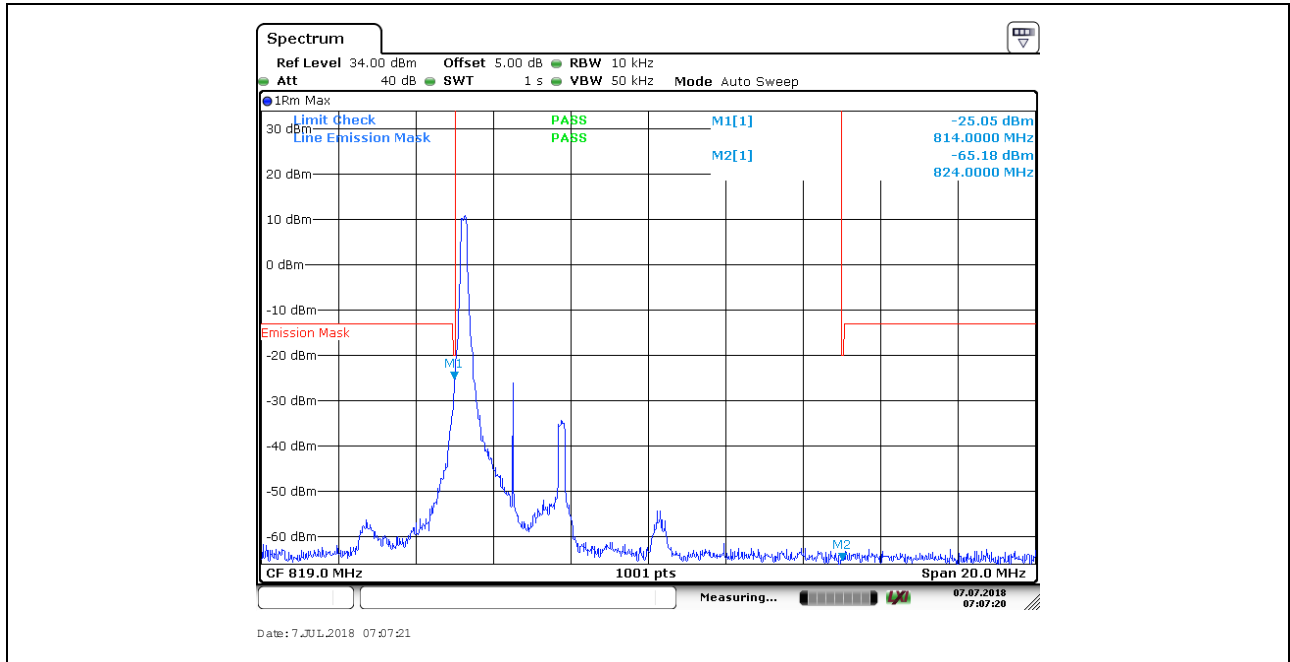
BAND 26_3MHz_QPSK_26705_1RB#0



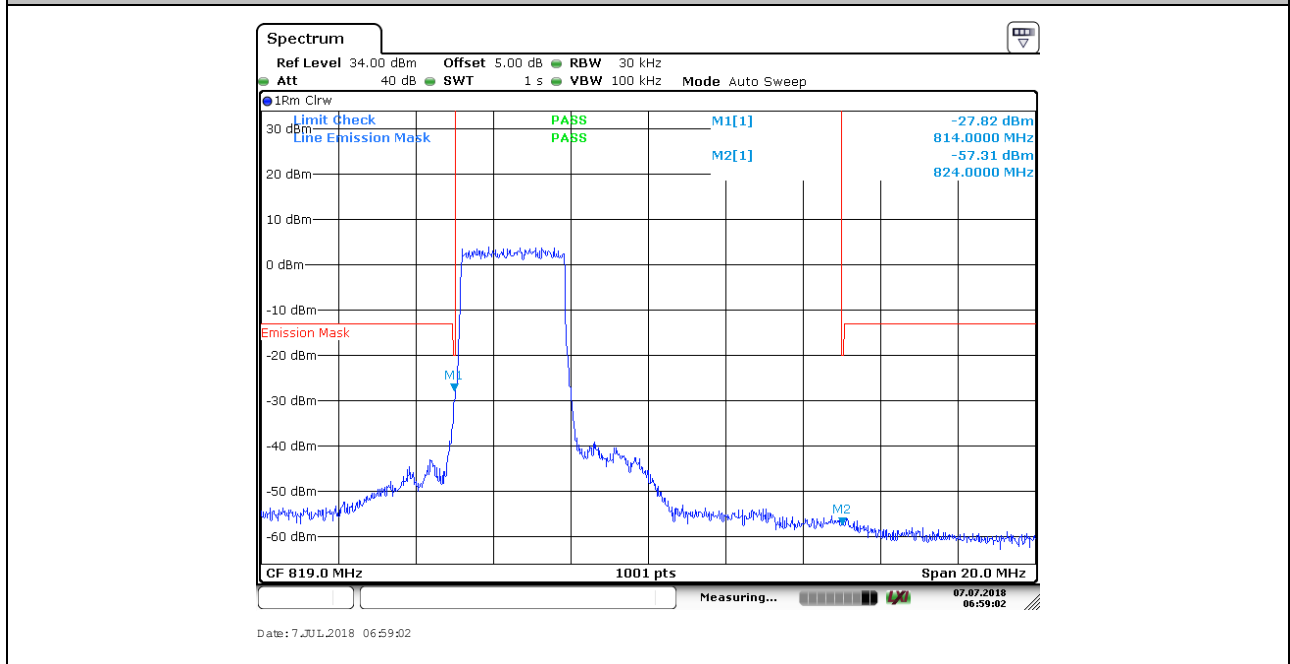
BAND 26_3MHz_16QAM_26705_1RB#0



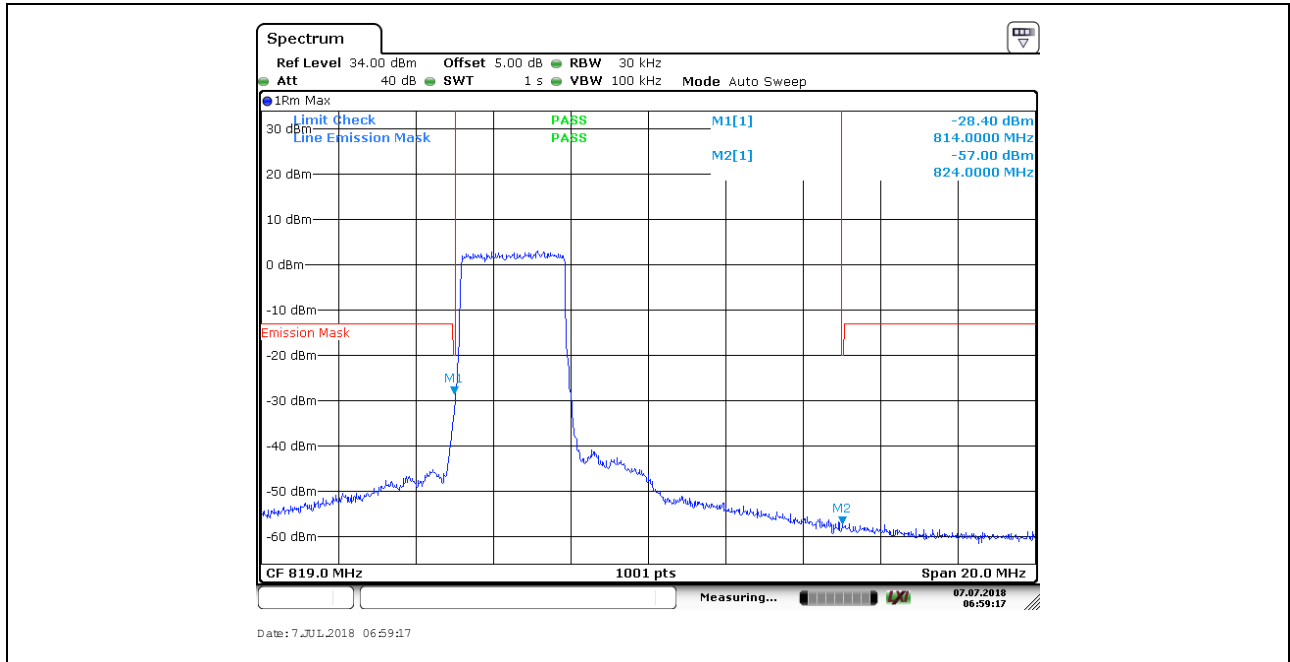
BAND 26_3MHz_64QAM_26705_1RB#0



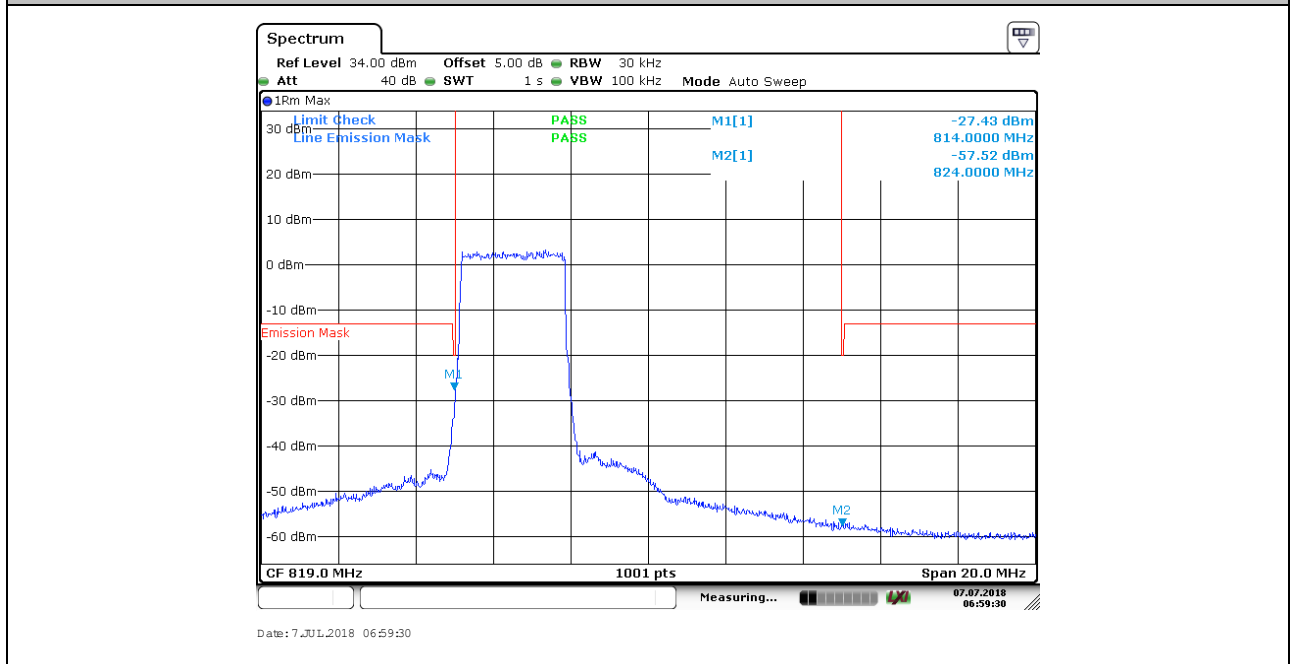
BAND 26_3MHz_QPSK_26705_15RB#0



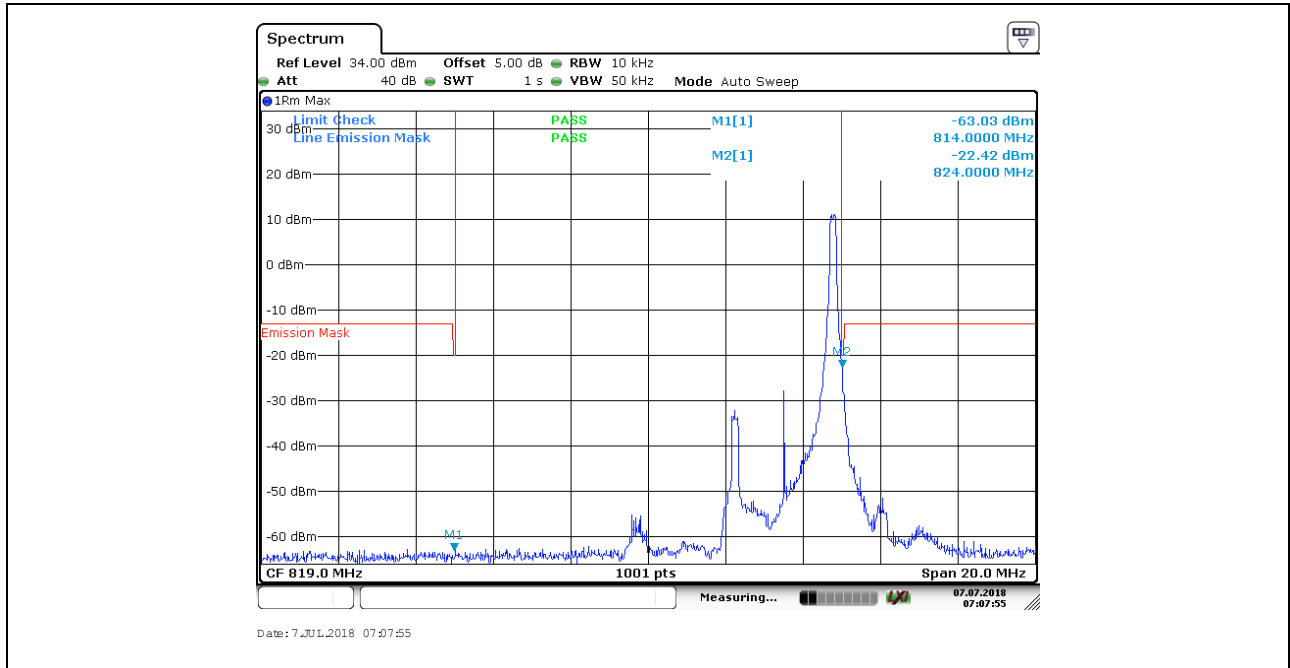
BAND 26_3MHz_16QAM_26705_15RB#0



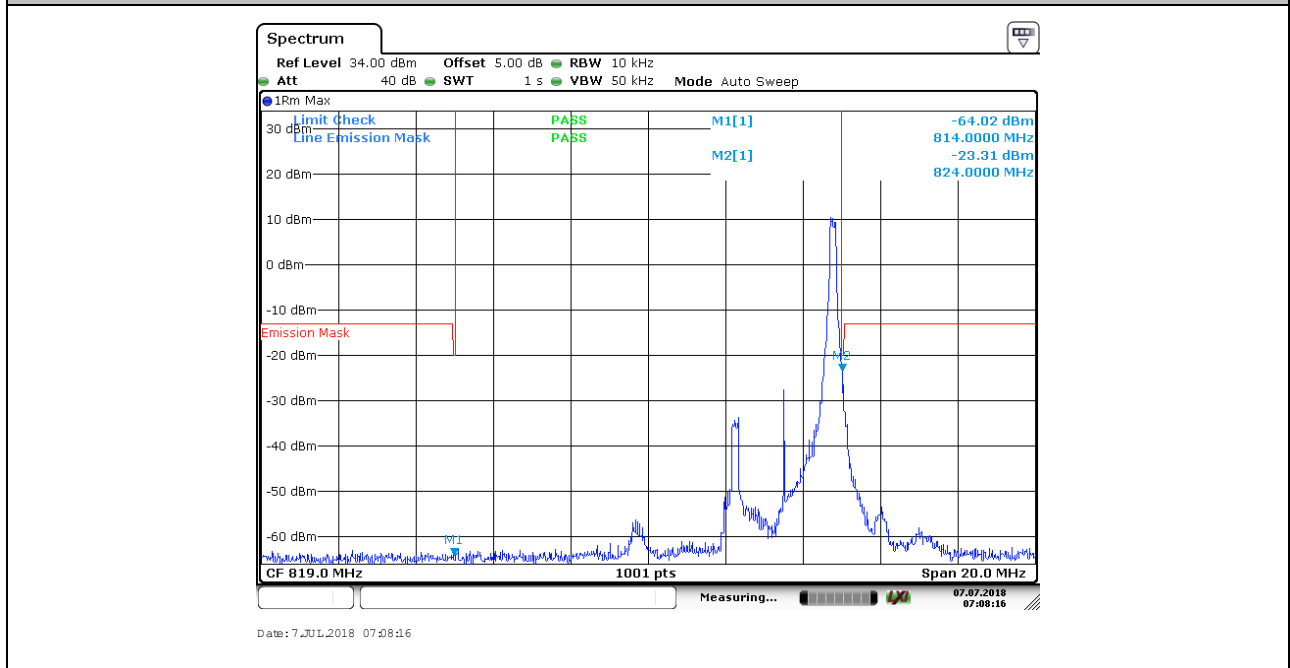
BAND 26_3MHz_64QAM_26705_15RB#0



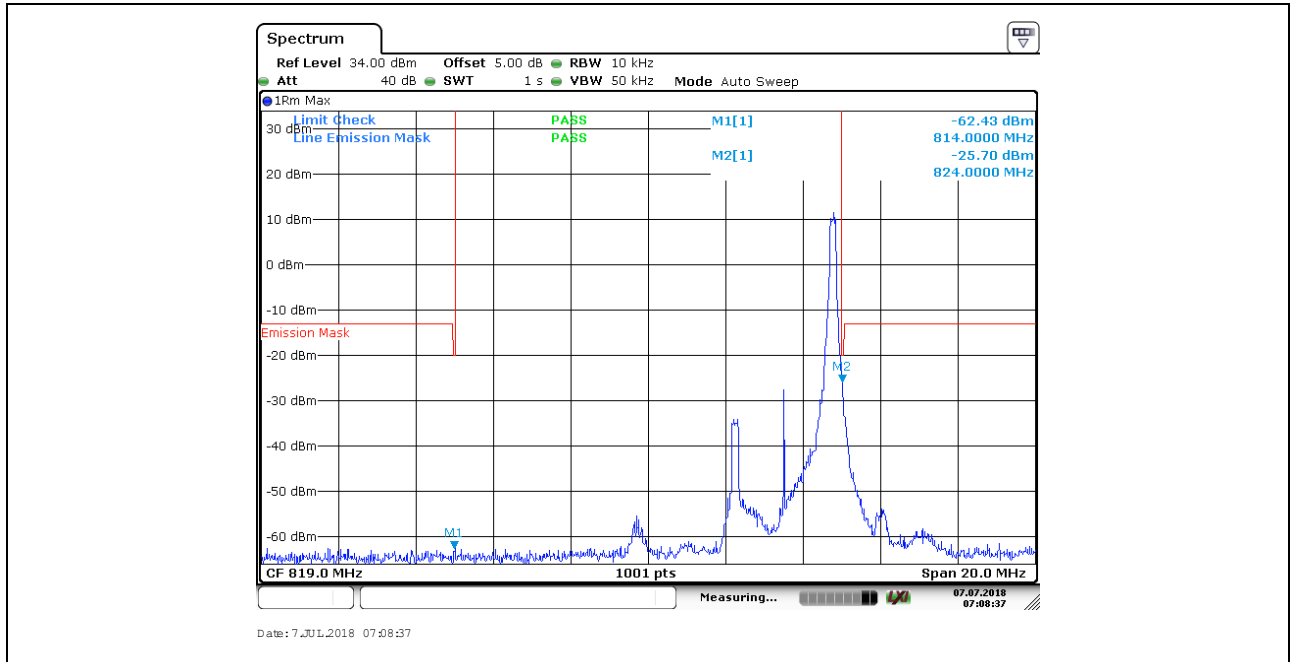
BAND 26_3MHz_QPSK_26775_1RB#14



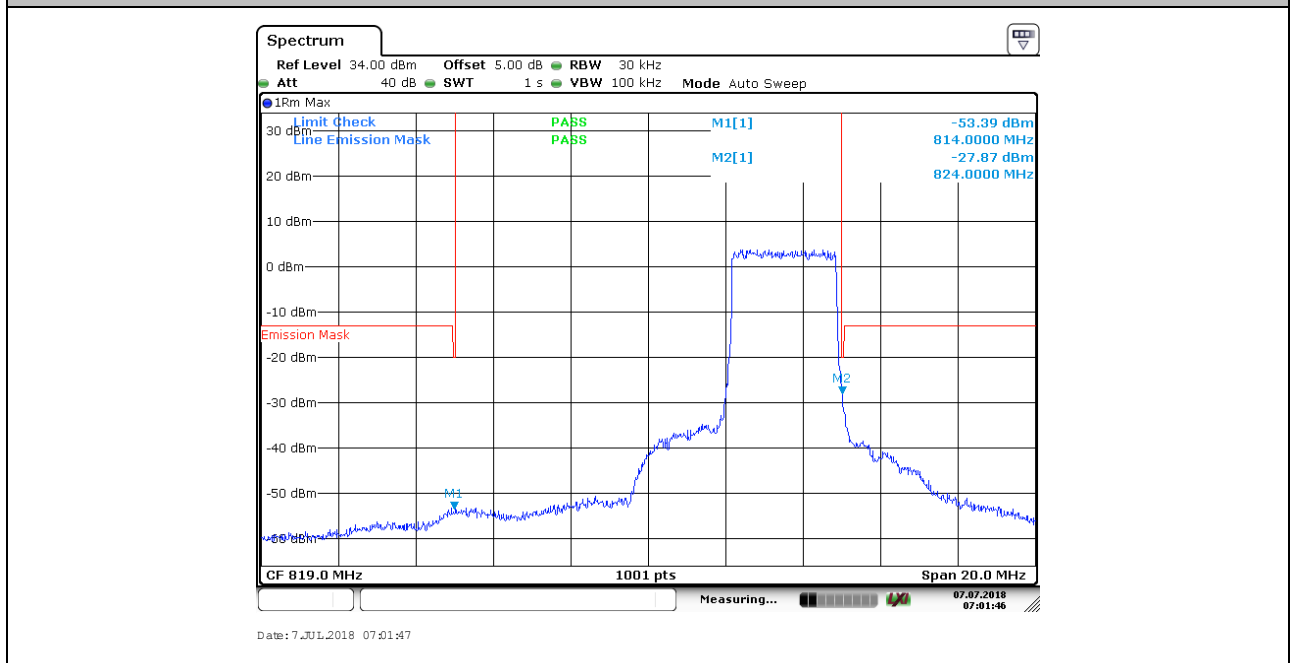
BAND 26_3MHz_16QAM_26775_1RB#14



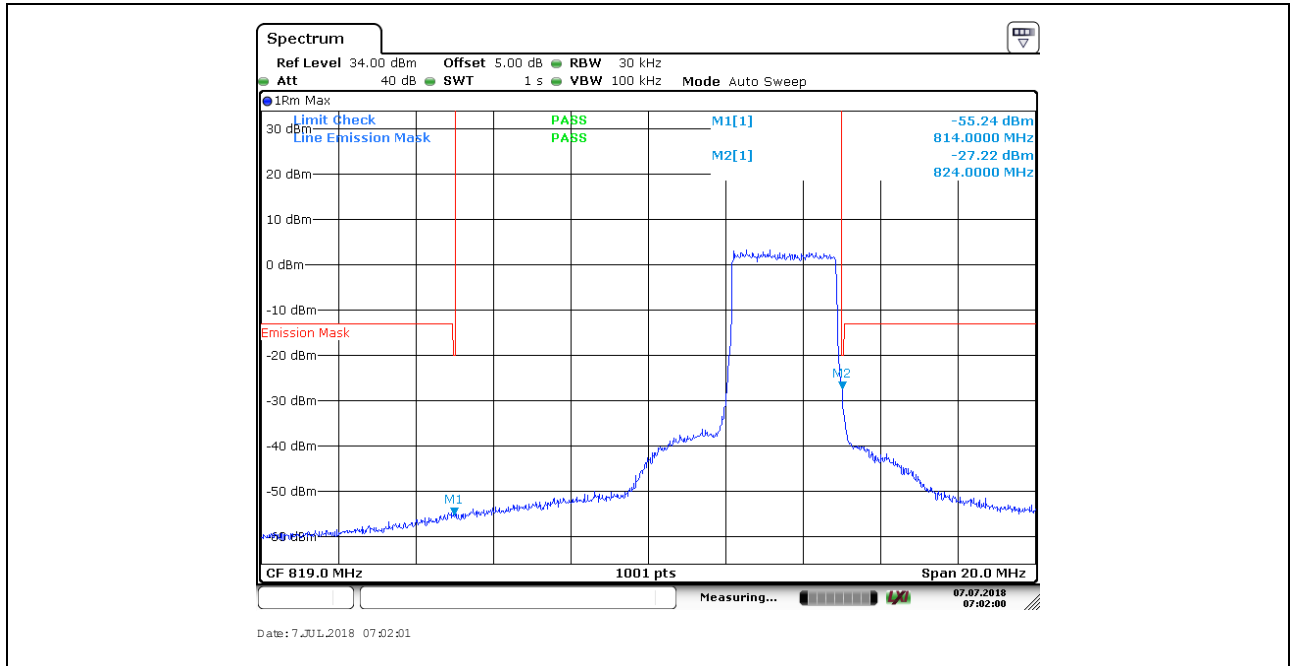
BAND 26_3MHz_64QAM_26775_1RB#14



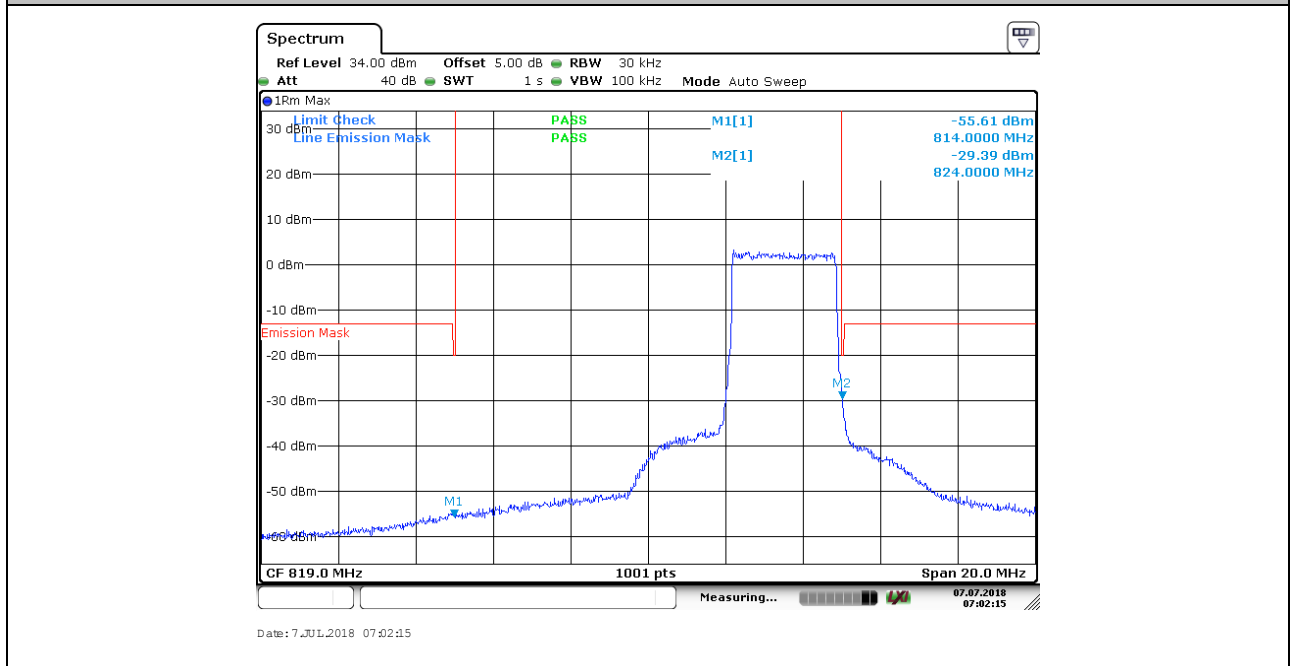
BAND 26_3MHz_QPSK_26775_15RB#0



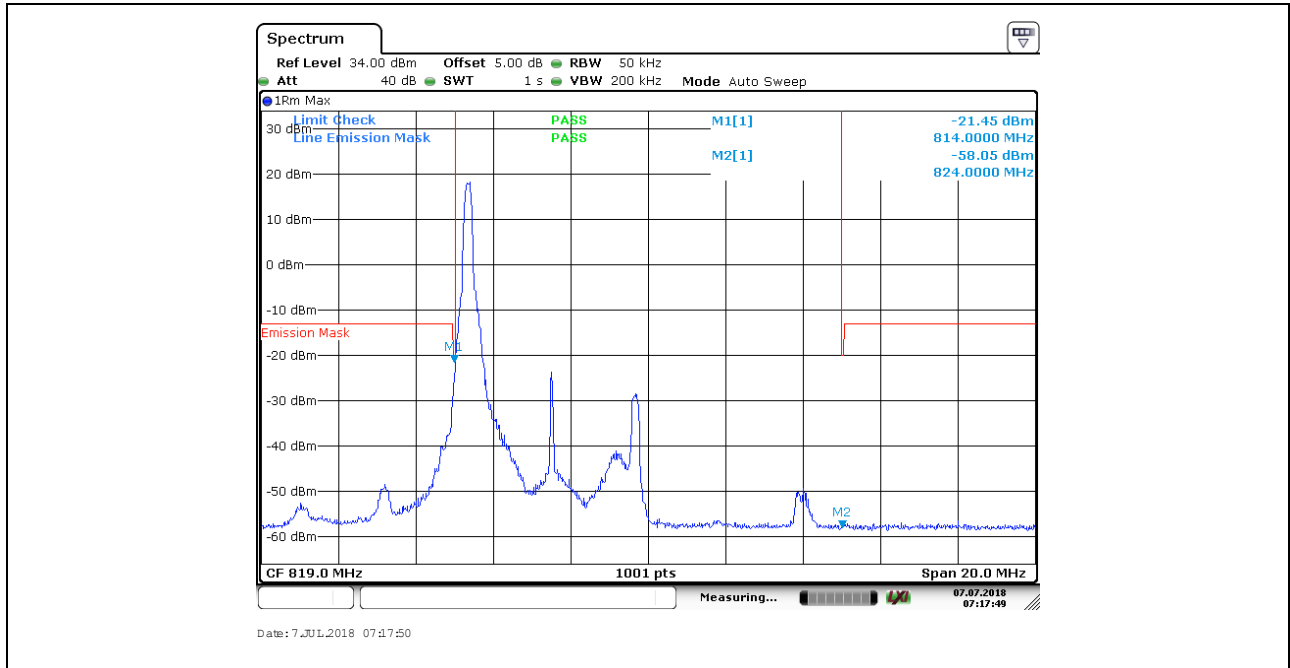
BAND 26_3MHz_16QAM_26775_15RB#0



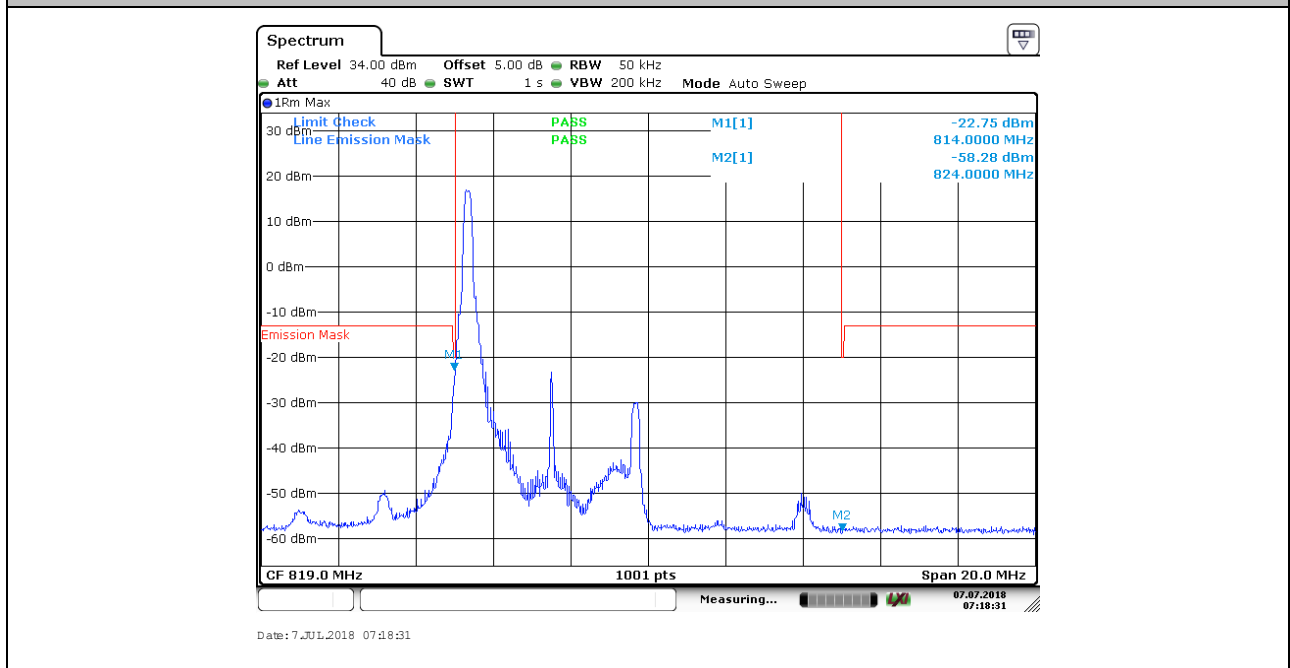
BAND 26_3MHz_64QAM_26775_15RB#0



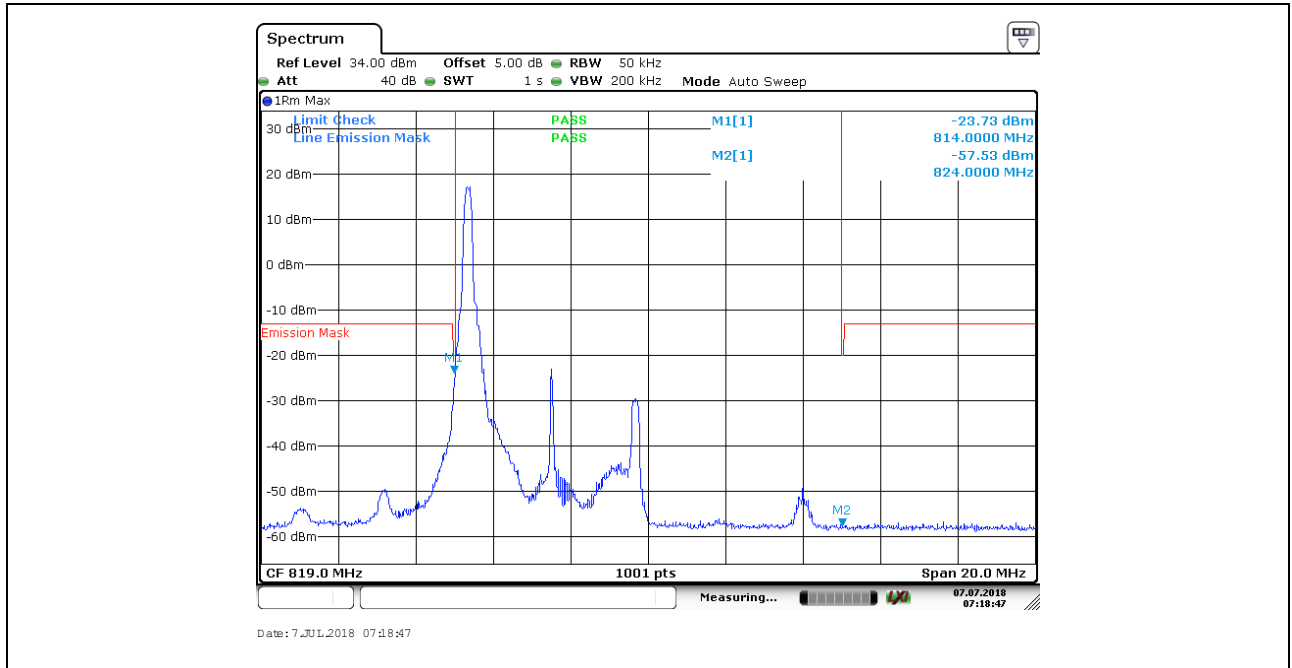
BAND 26_5MHz_QPSK_26715_1RB#0



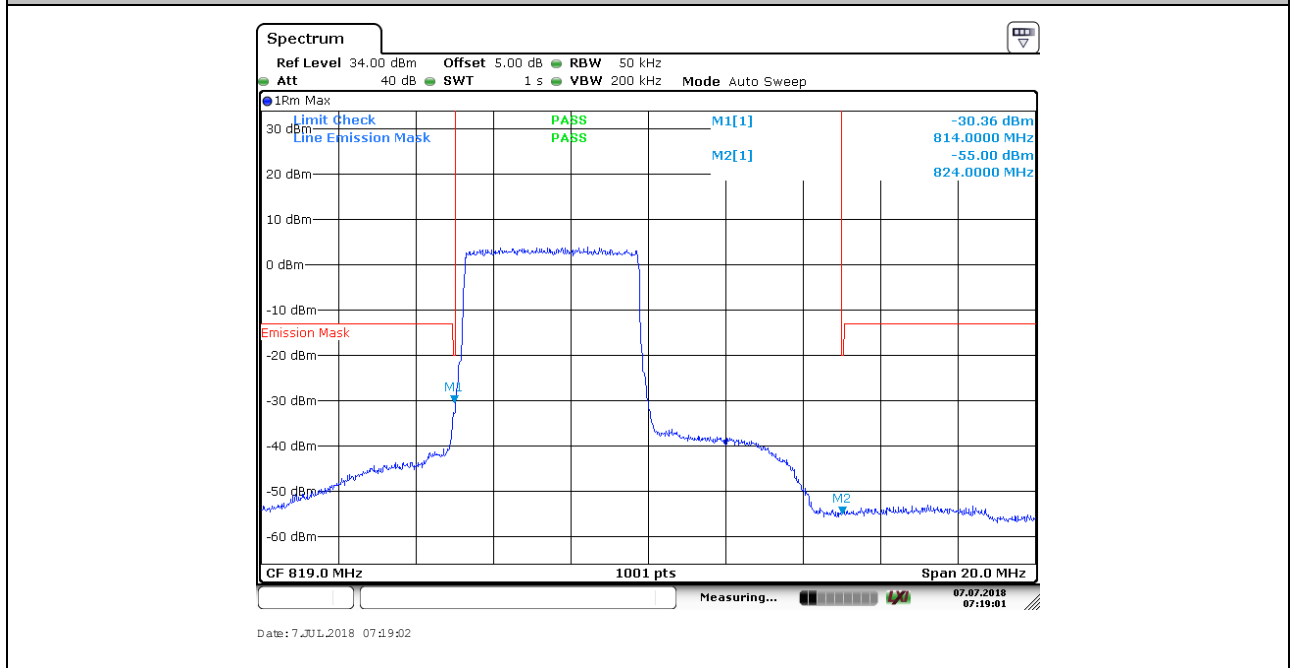
BAND 26_5MHz_16QAM_26715_1RB#0



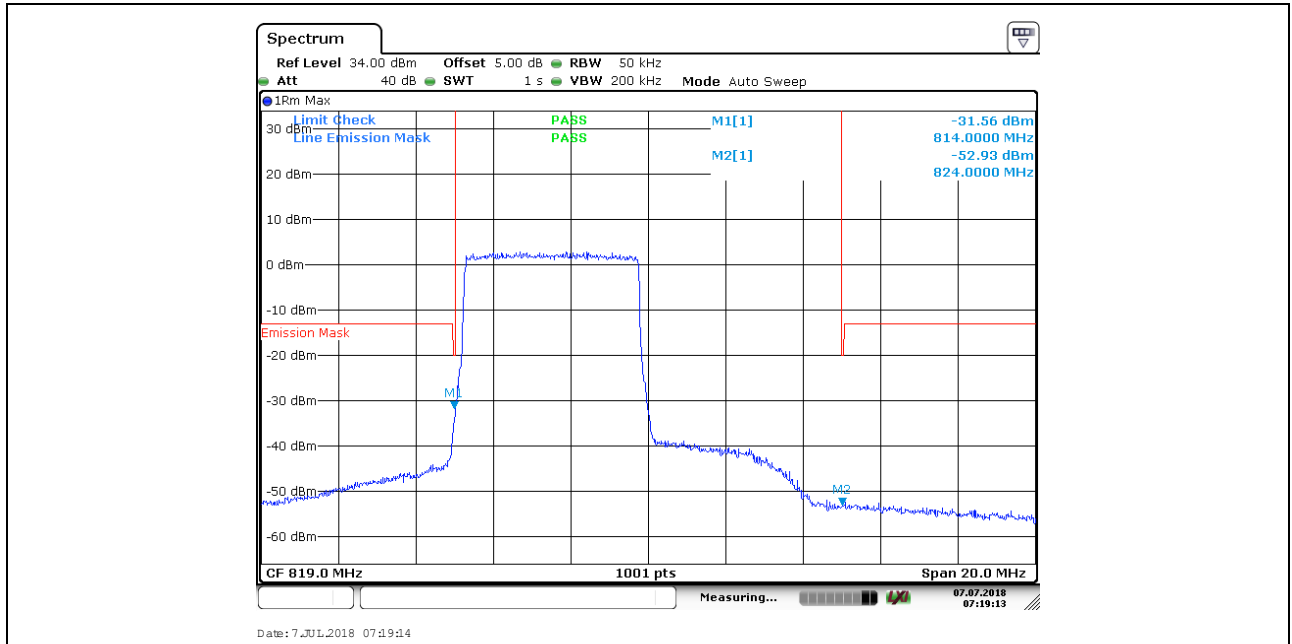
BAND 26_5MHz_64QAM_26715_1RB#0



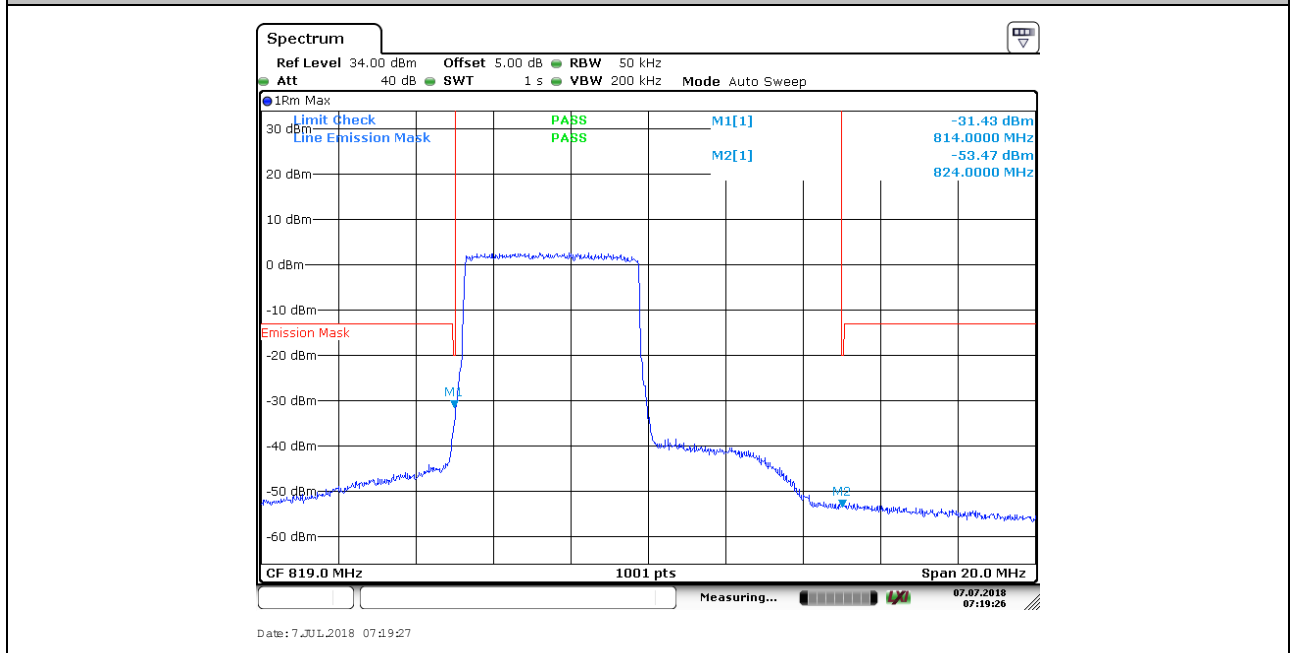
BAND 26_5MHz_QPSK_26715_25RB#0



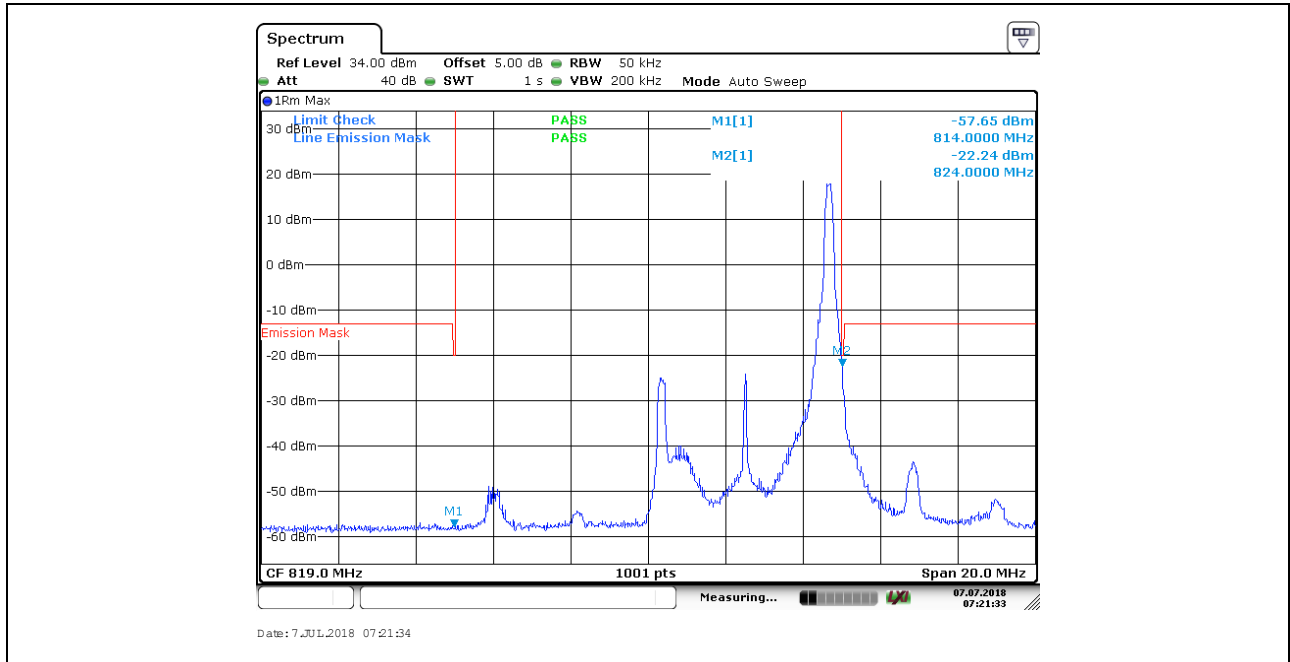
BAND 26_5MHz_16QAM_26715_25RB#0



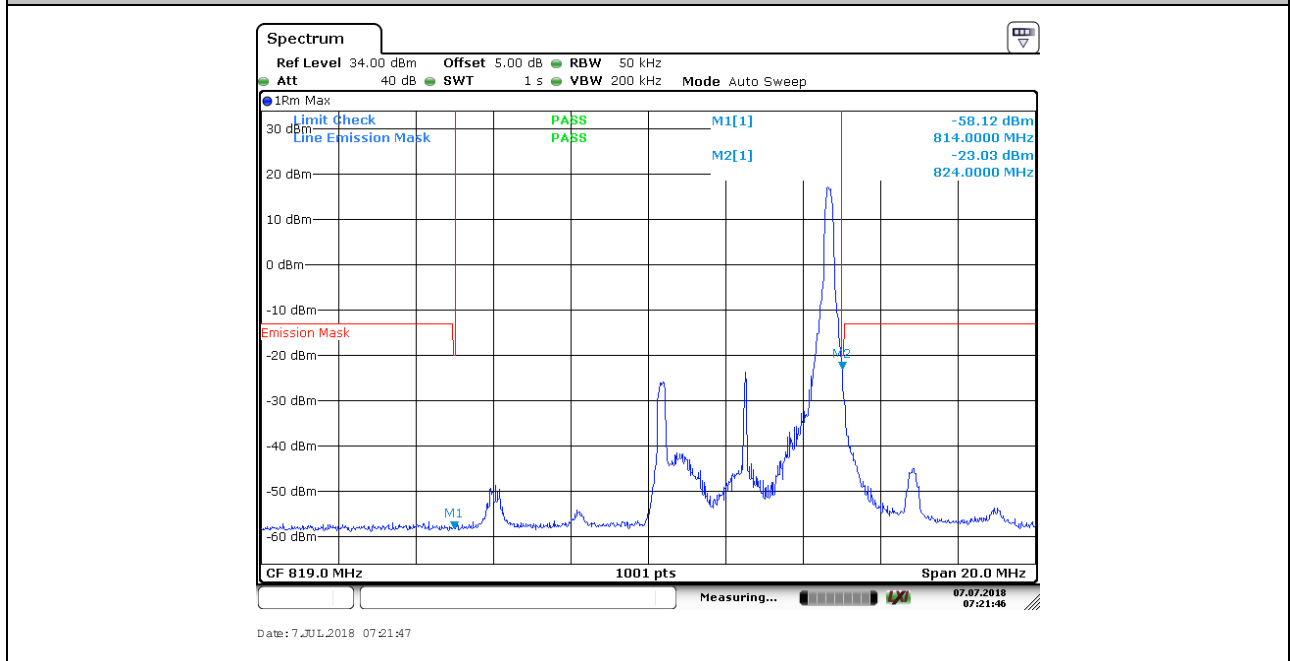
BAND 26_5MHz_64QAM_26715_25RB#0



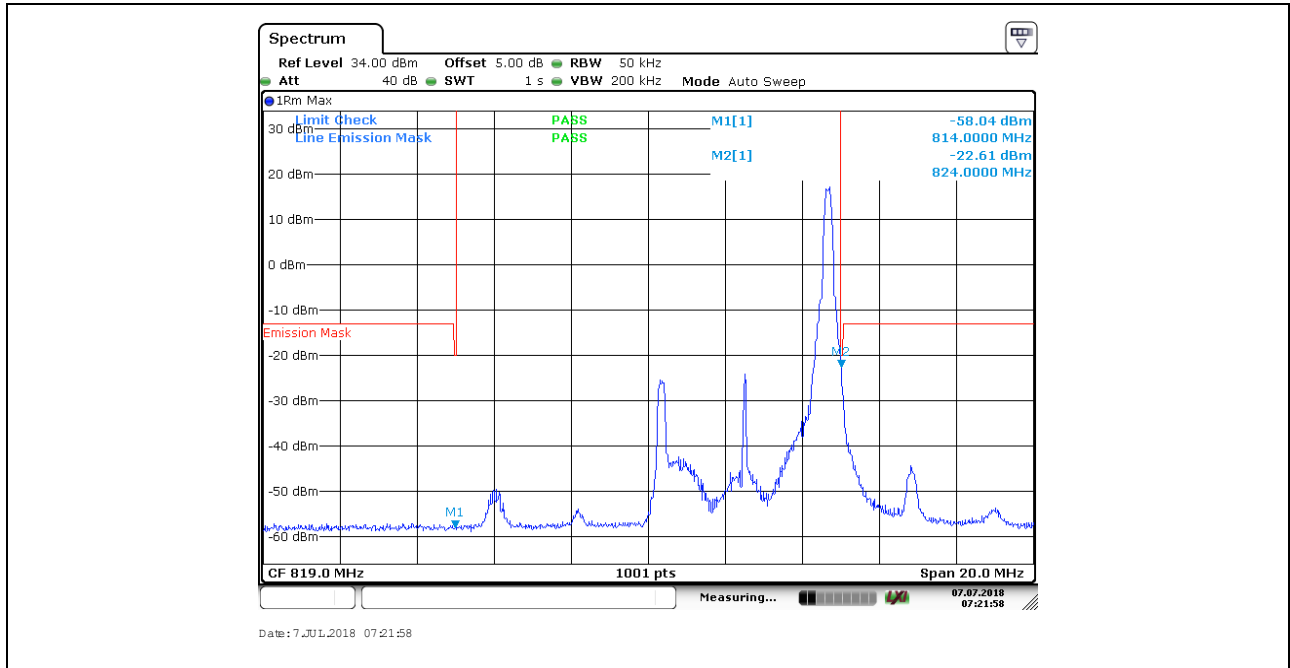
BAND 26_5MHz_QPSK_26765_1RB#24



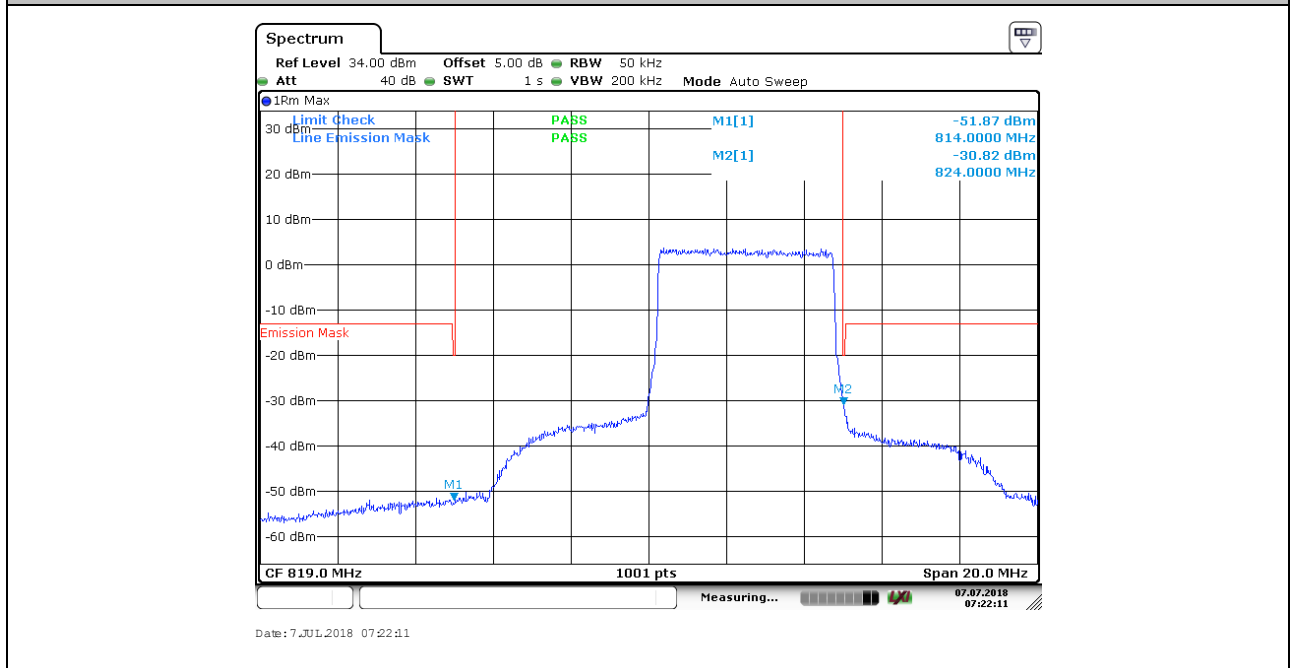
BAND 26_5MHz_16QAM_26765_1RB#24



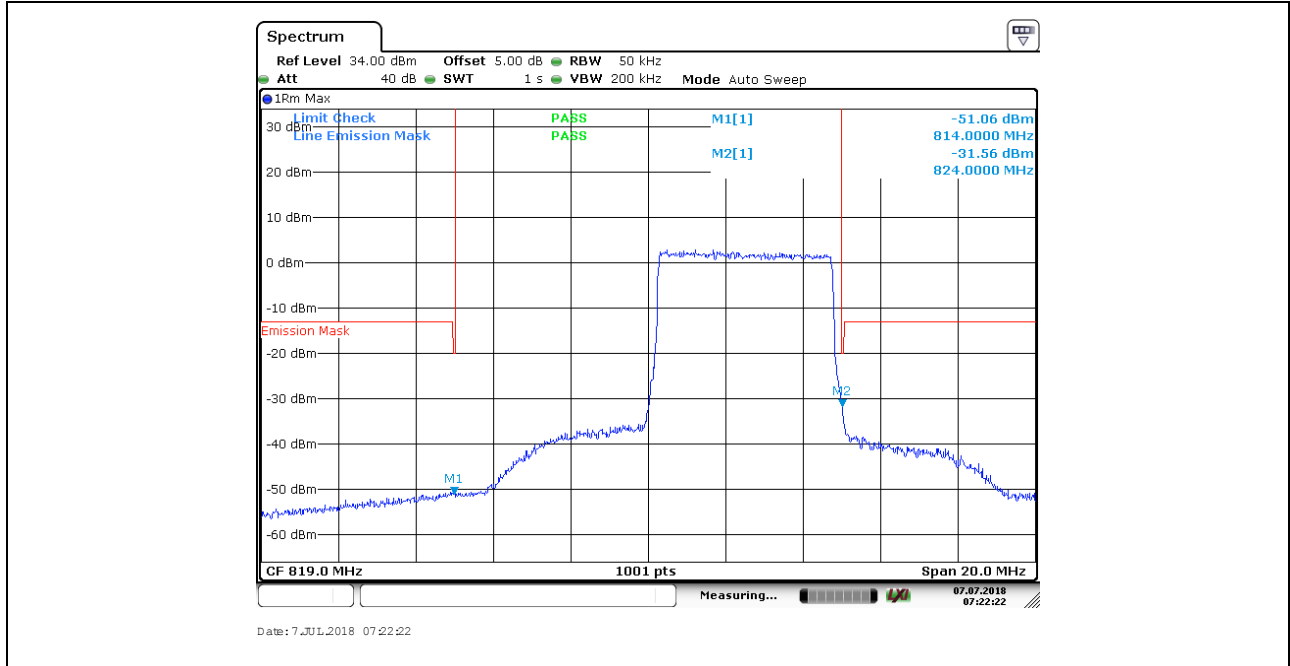
BAND 26_5MHz_64QAM_26765_1RB#24



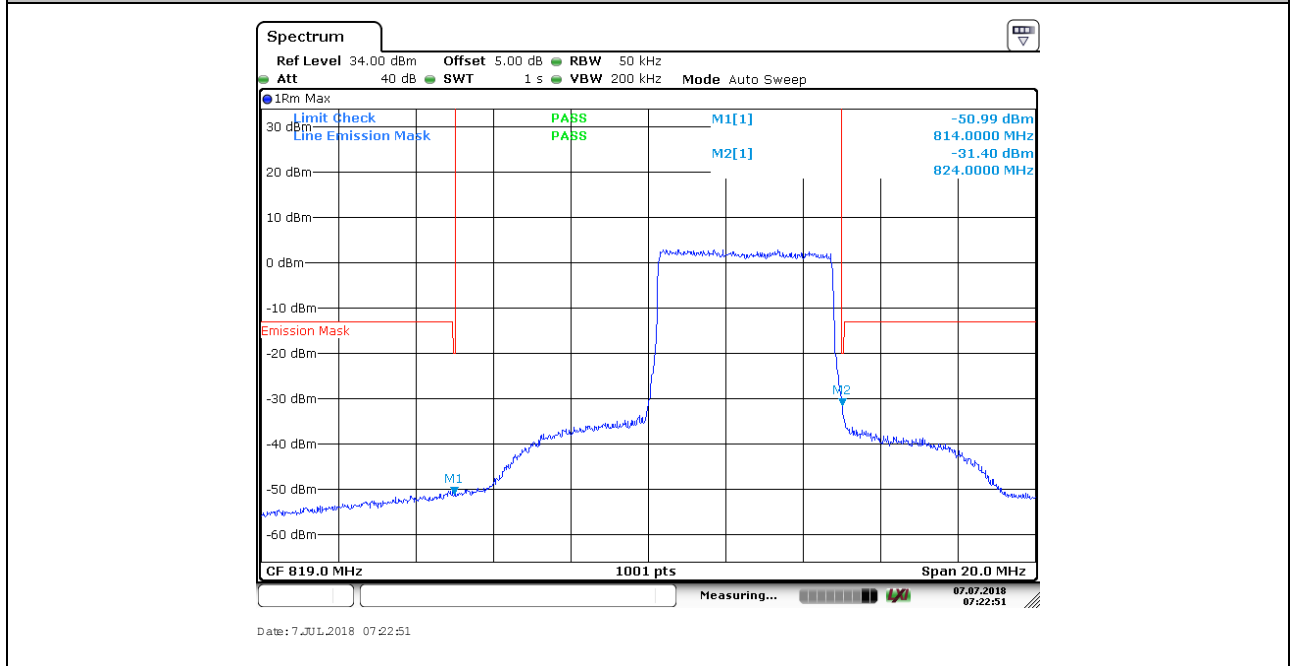
BAND 26_5MHz_QPSK_26765_25RB#0



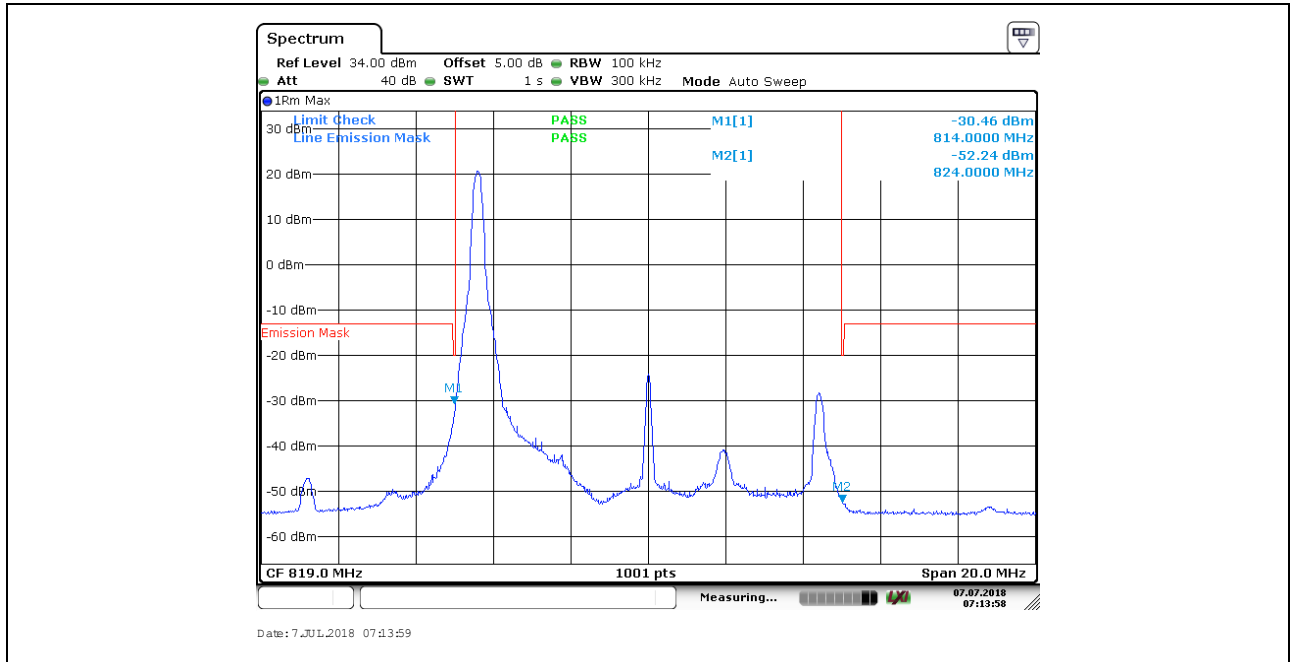
BAND 26_5MHz_16QAM_26765_25RB#0



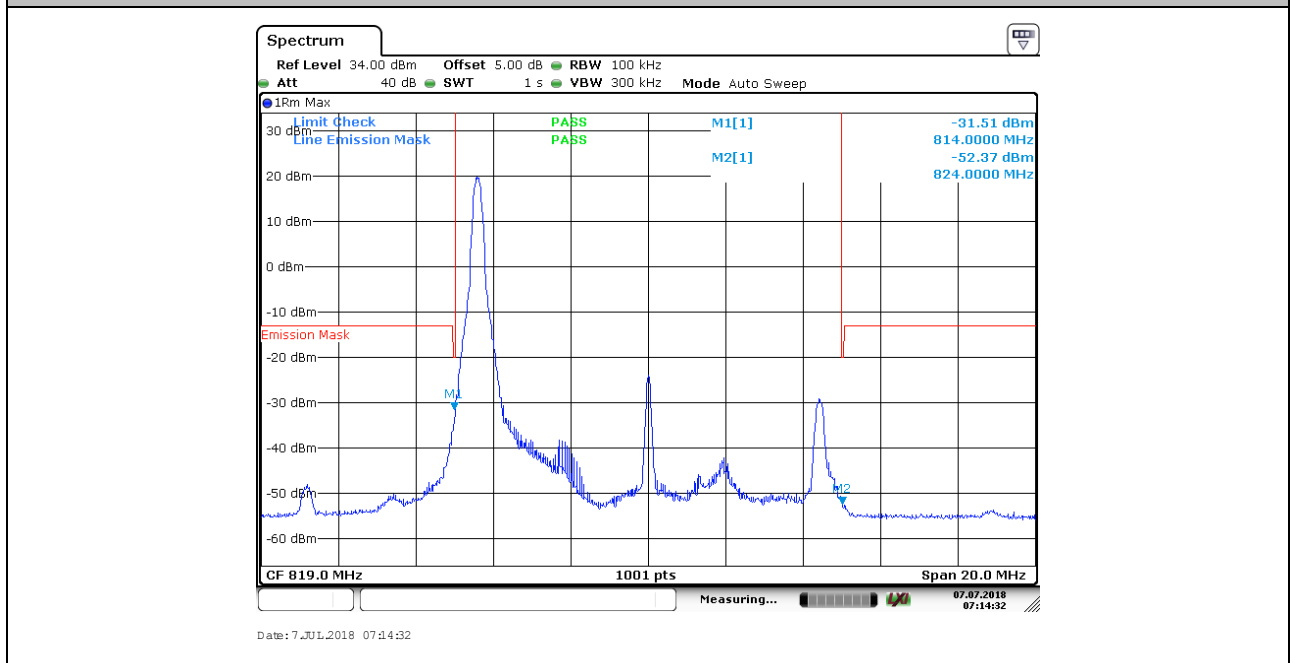
BAND 26_5MHz_64QAM_26765_25RB#0



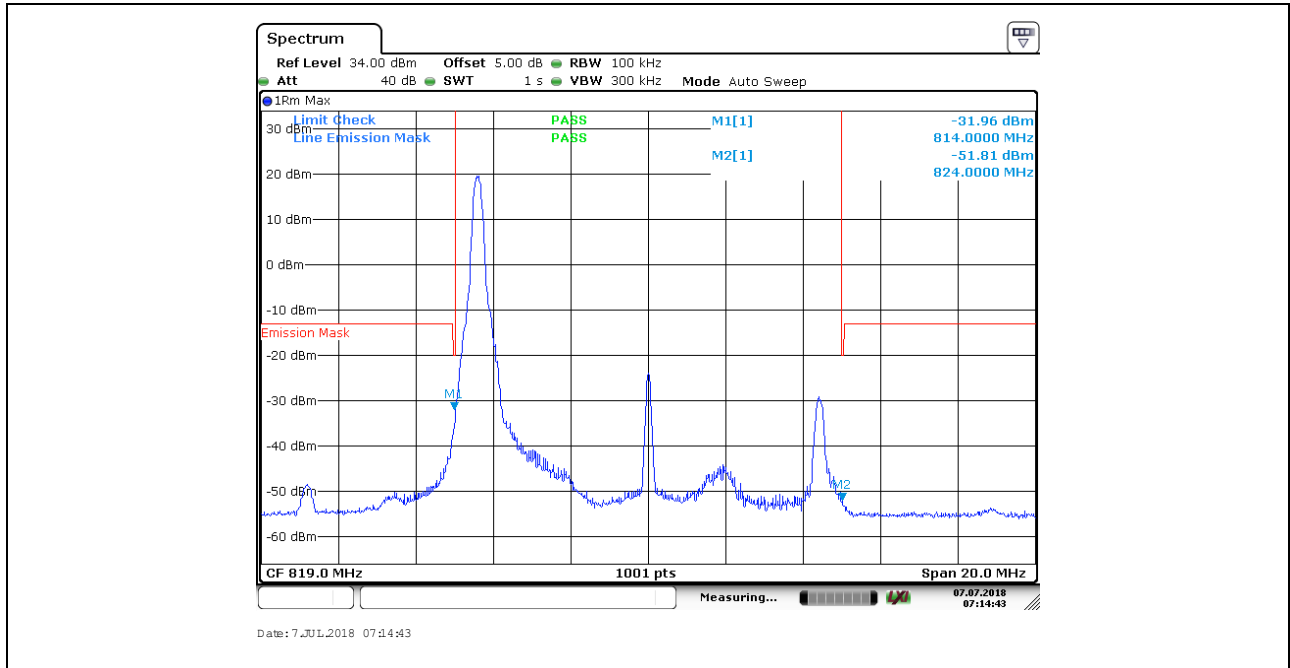
BAND 26_10MHz_QPSK_26740_1RB#0



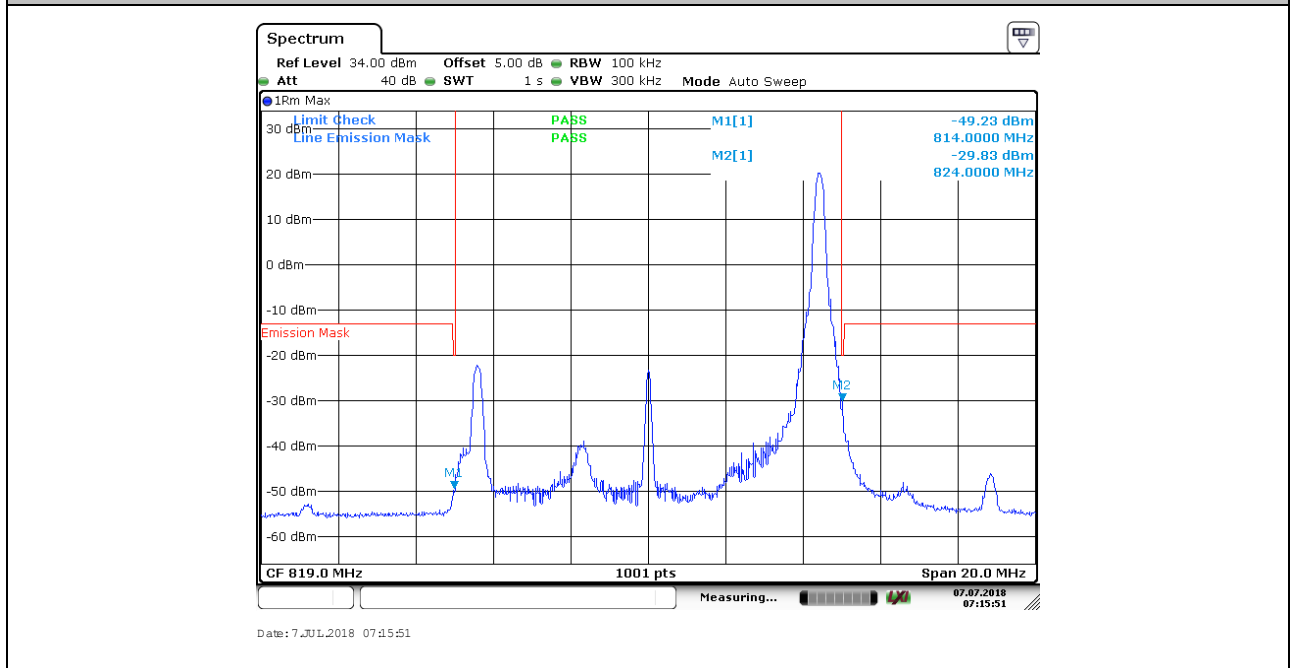
BAND 26_10MHz_16QAM_26740_1RB#0



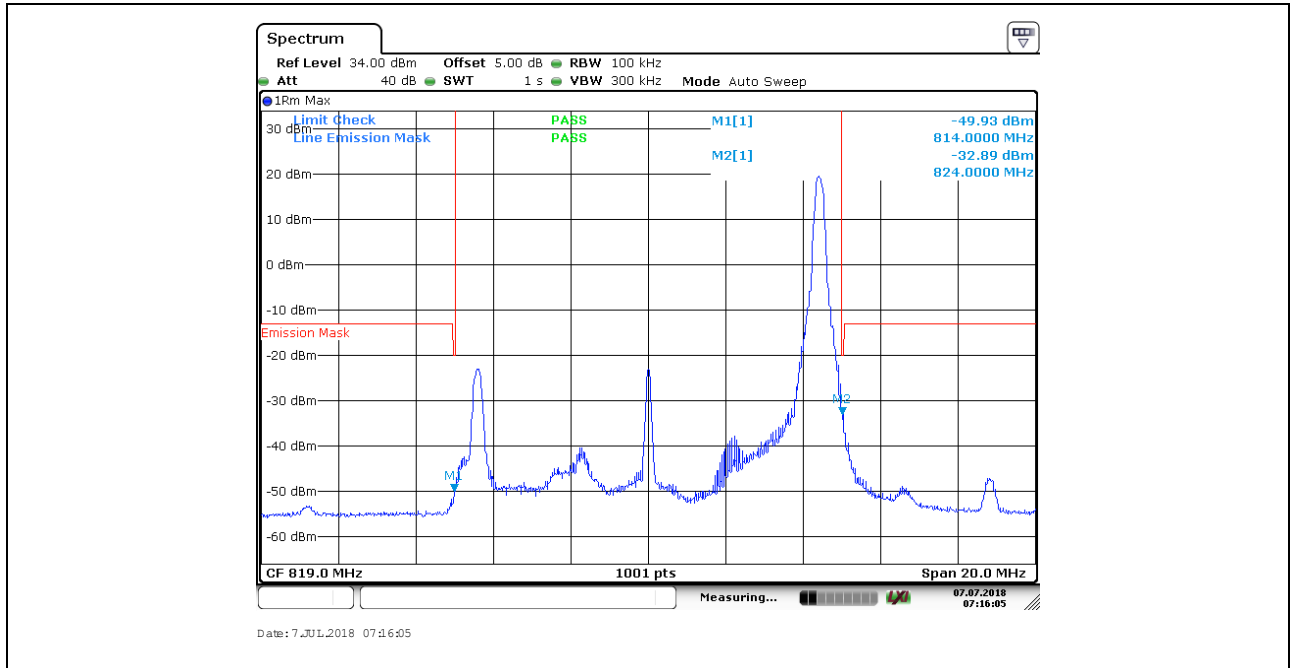
BAND 26_10MHz_64QAM_26740_1RB#0



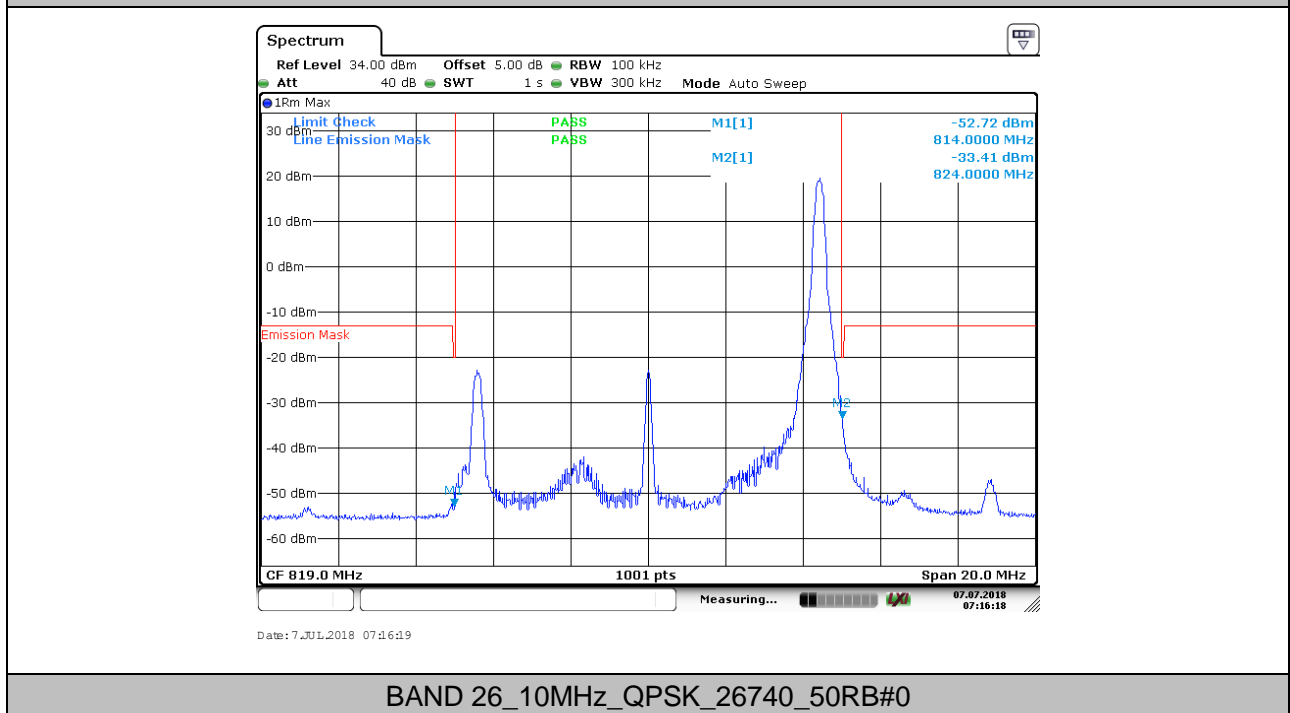
BAND 26_10MHz_QPSK_26740_1RB#49



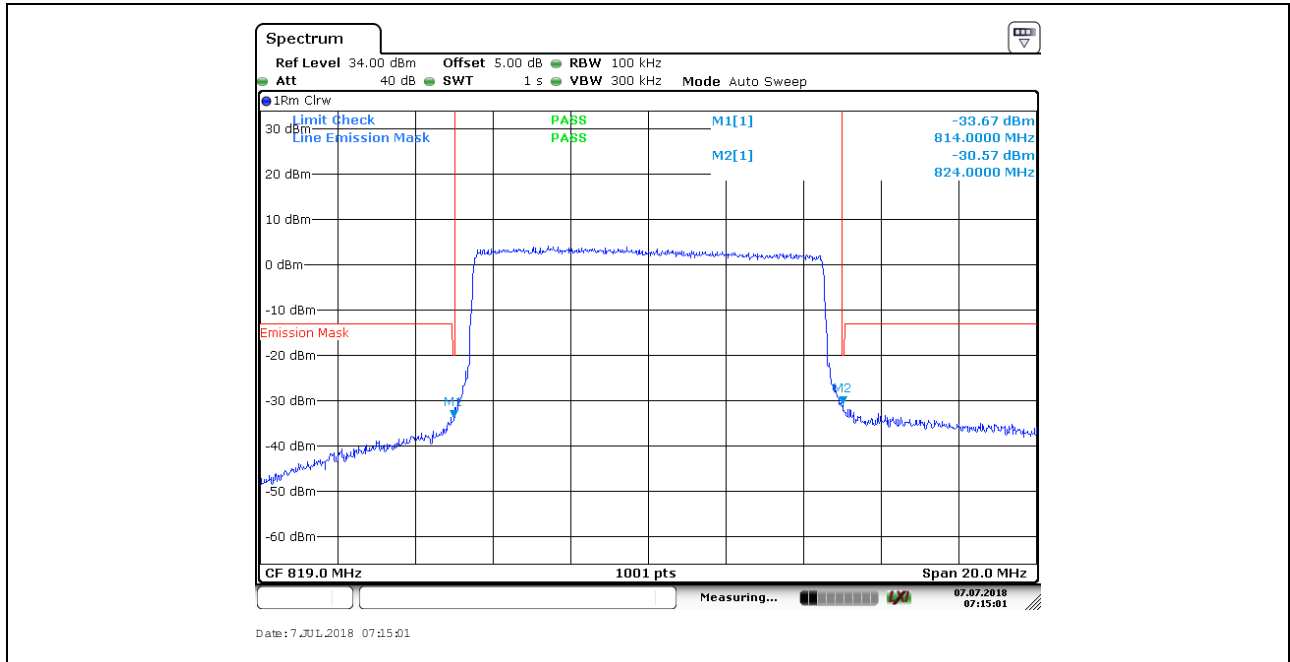
BAND 26_10MHz_16QAM_26740_1RB#49



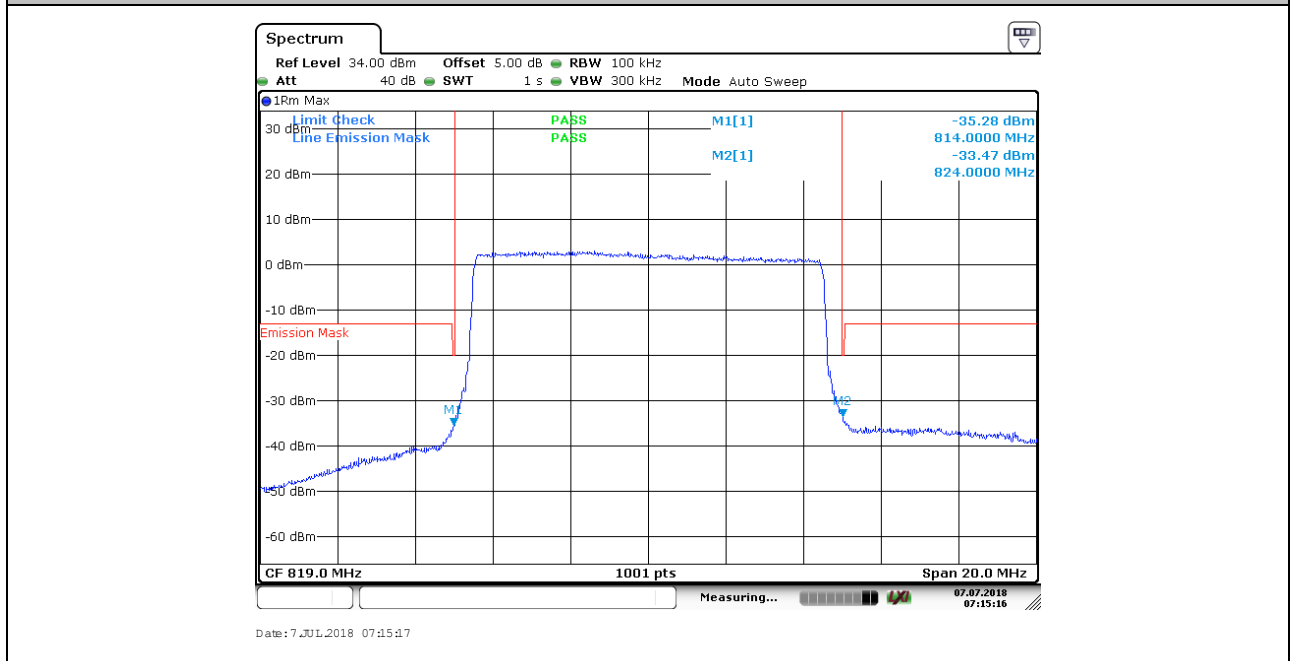
BAND 26_10MHz_64QAM_26740_1RB#49



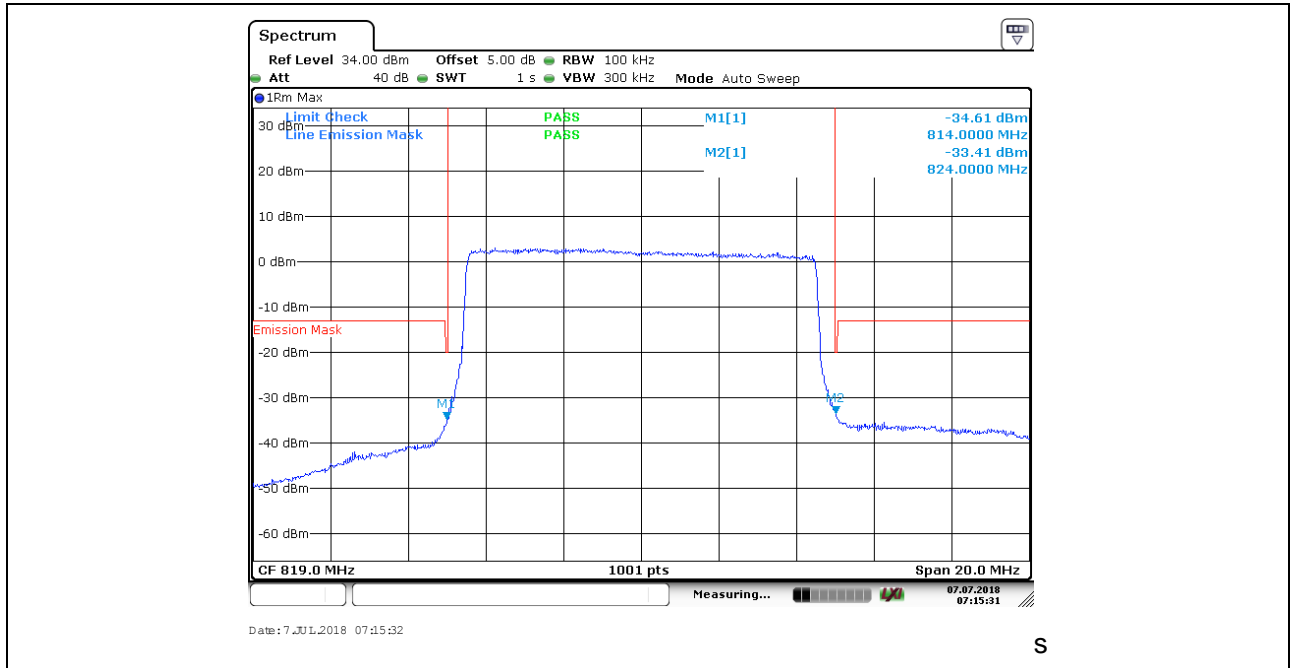
BAND 26_10MHz_QPSK_26740_50RB#0



BAND 26_20MHz_16QAM_26740_50RB#0



BAND 26_20MHz_64QAM_26740_50RB#0





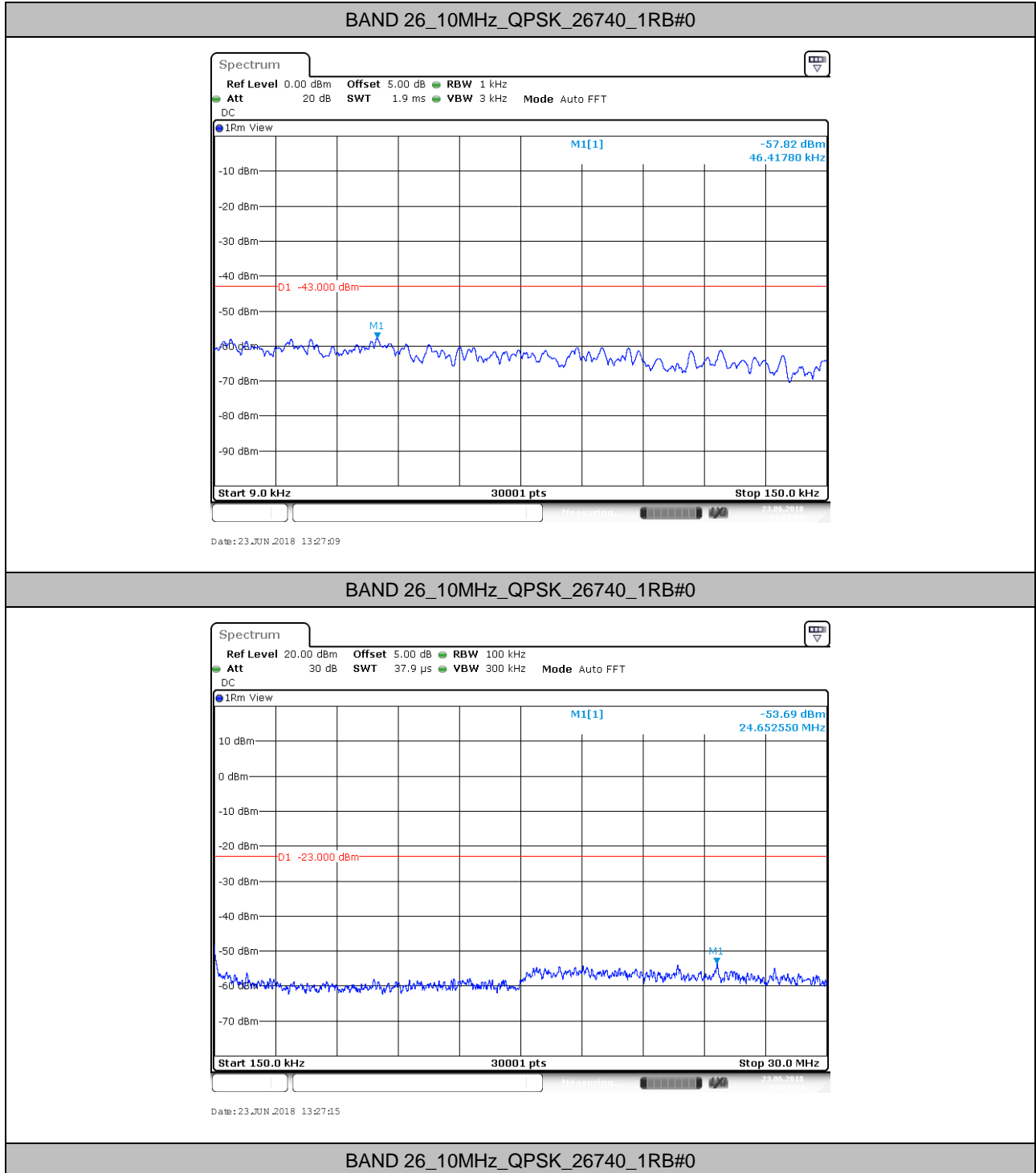
6. Spurious Emission at Antenna Terminal

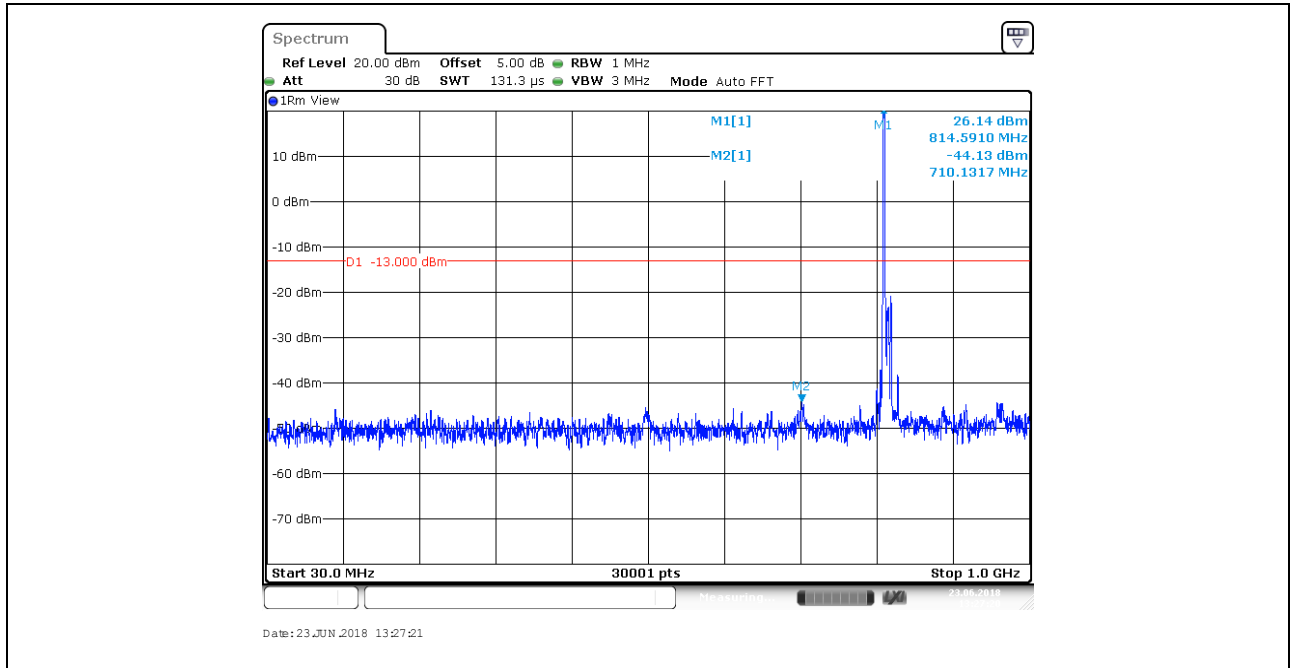
NOTE: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowBAND signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k * (Span / RBW)$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

6.1. Test Result

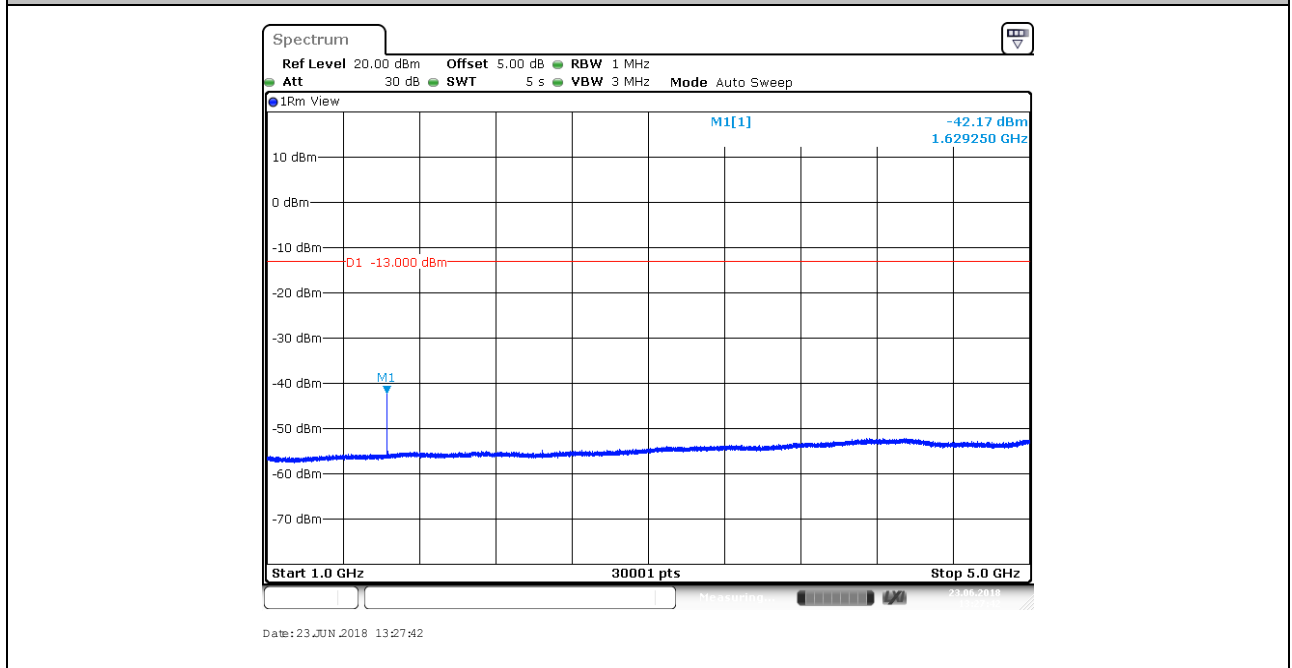
BAND	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
BAND 26	10MHz	QPSK	26740	1RB#0	Range1:0.009~0.15MHz	-57.82	PASS
BAND 26	10MHz	QPSK	26740	1RB#0	Range2:0.15~30MHz	-53.69	PASS
BAND 26	10MHz	QPSK	26740	1RB#0	Range3:30~1000MHz	-44.13	PASS
BAND 26	10MHz	QPSK	26740	1RB#0	Range4:1000~5000MHz	-42.17	PASS
BAND 26	10MHz	QPSK	26740	1RB#0	Range5:5000~12000MHz	-49.62	PASS
BAND 26	10MHz	QPSK	26740	1RB#0	Range6:12000~18000MHz	-49.46	PASS
BAND 26	10MHz	64QAM	26740	1RB#0	Range1:0.009~0.15MHz	-57.01	PASS
BAND 26	10MHz	64QAM	26740	1RB#0	Range2:0.15~30MHz	-52.88	PASS
BAND 26	10MHz	64QAM	26740	1RB#0	Range3:30~1000MHz	-44.13	PASS
BAND 26	10MHz	64QAM	26740	1RB#0	Range4:1000~5000MHz	-42.76	PASS
BAND 26	10MHz	64QAM	26740	1RB#0	Range5:5000~12000MHz	-49.26	PASS
BAND 26	10MHz	64QAM	26740	1RB#0	Range6:12000~18000MHz	-49.38	PASS
BAND 26	10MHz	16QAM	26740	1RB#0	Range1:0.009~0.15MHz	-57.84	PASS
BAND 26	10MHz	16QAM	26740	1RB#0	Range2:0.15~30MHz	-53.37	PASS
BAND 26	10MHz	16QAM	26740	1RB#0	Range3:30~1000MHz	-42.91	PASS
BAND 26	10MHz	16QAM	26740	1RB#0	Range4:1000~5000MHz	-42.13	PASS
BAND 26	10MHz	16QAM	26740	1RB#0	Range5:5000~12000MHz	-49.65	PASS
BAND 26	10MHz	16QAM	26740	1RB#0	Range6:12000~18000MHz	-49.61	PASS

6.2. Test Plots

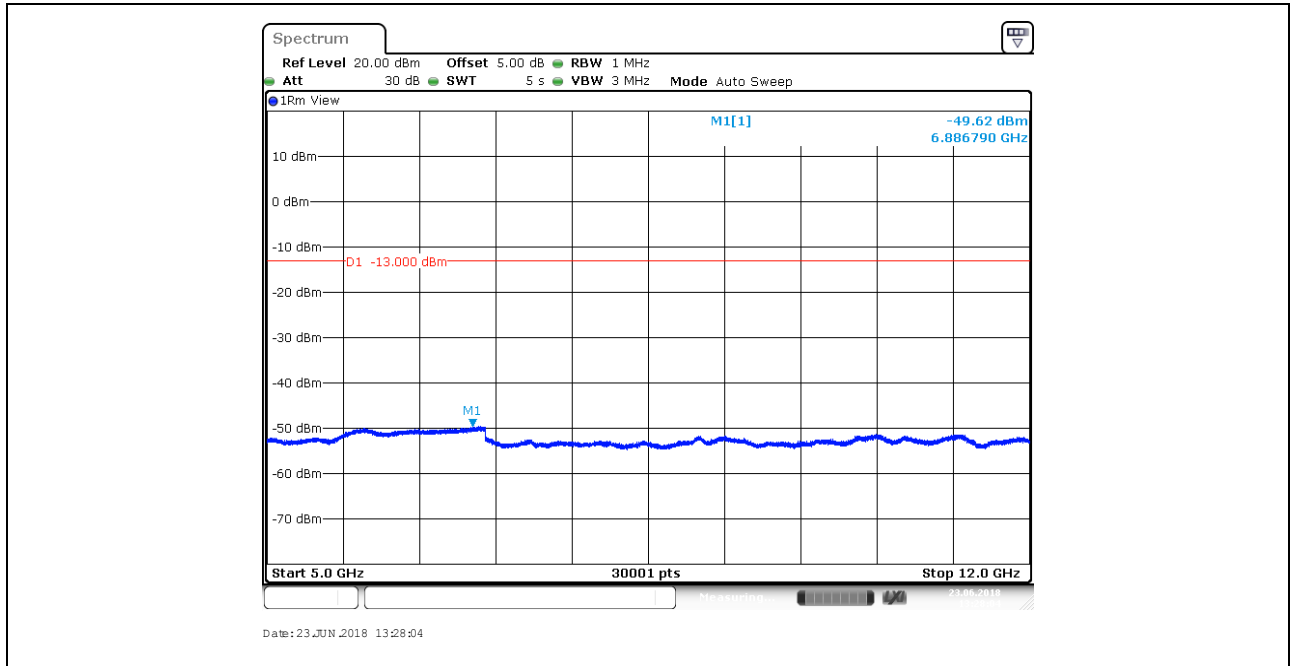




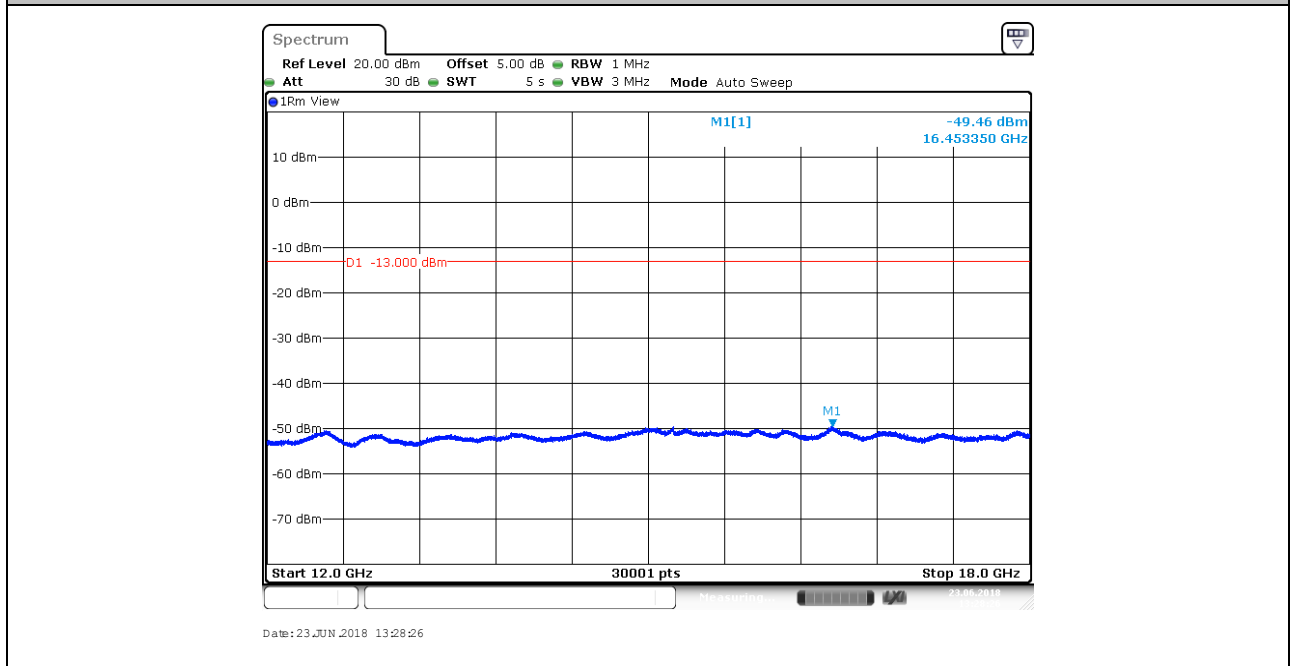
BAND 26_10MHz_QPSK_26740_1RB#0



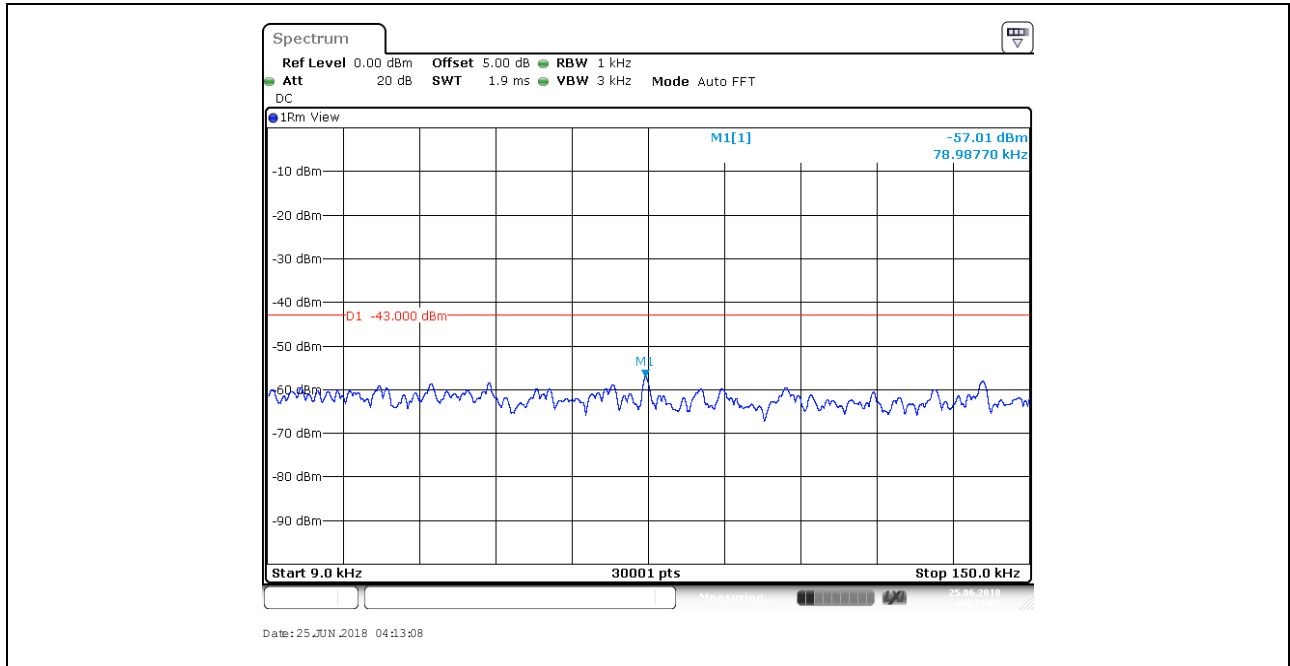
BAND 26_10MHz_QPSK_26740_1RB#0



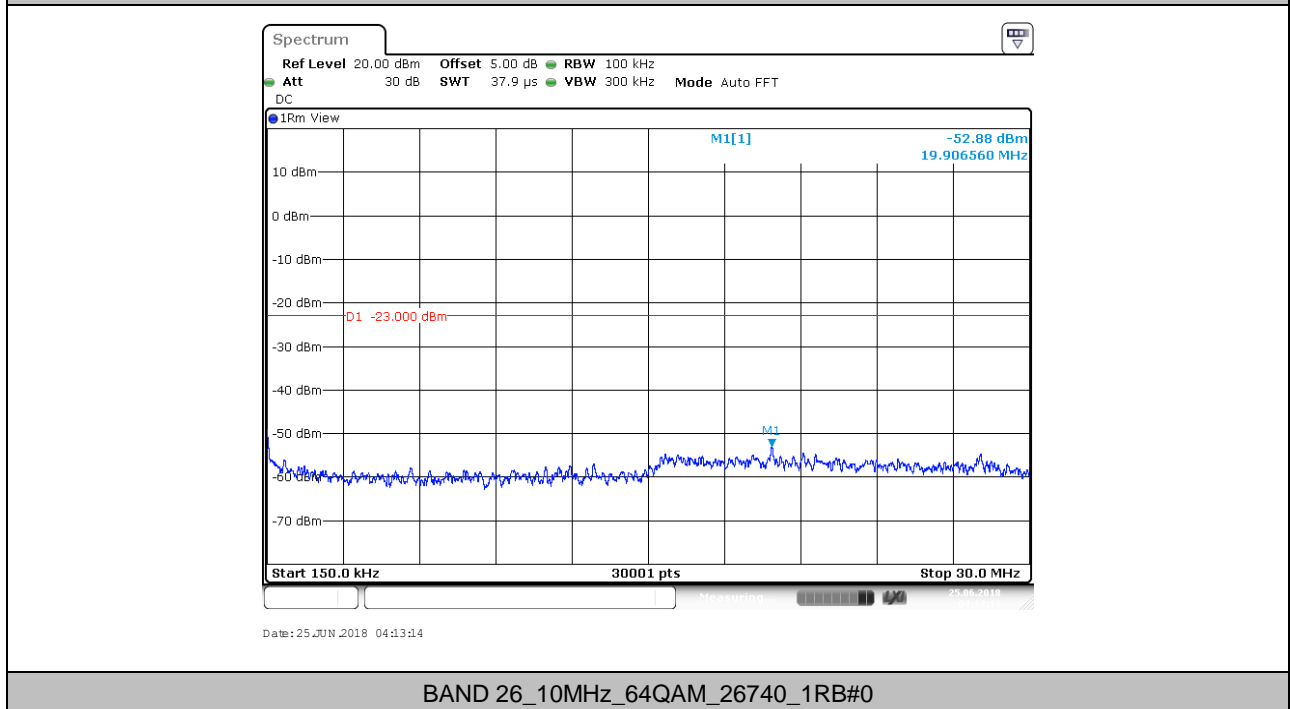
BAND 26_10MHz_QPSK_26740_1RB#0



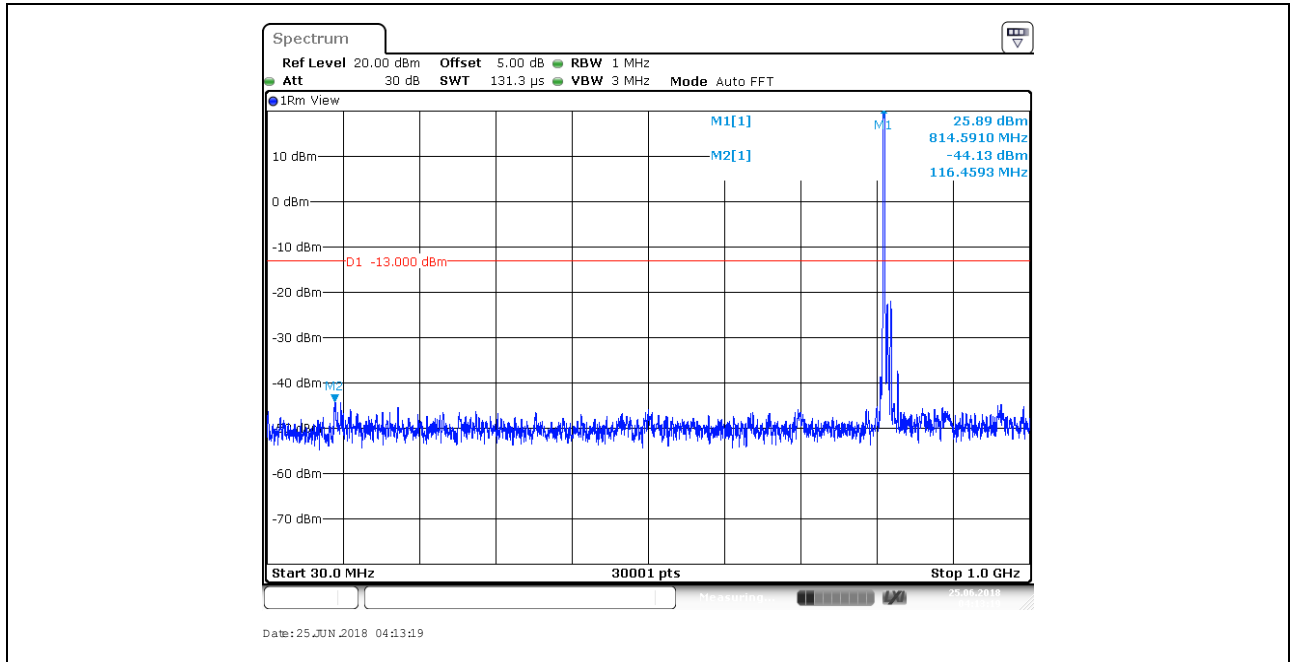
BAND 26_10MHz_64QAM_26740_1RB#0



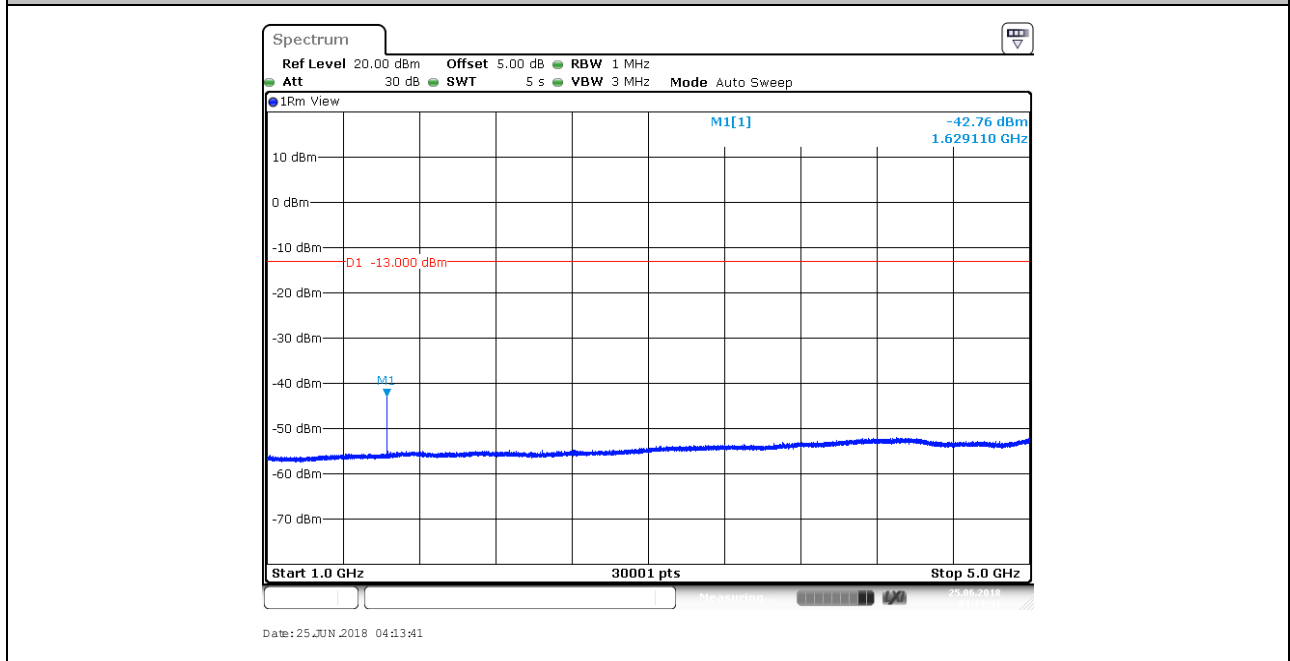
BAND 26_10MHz_64QAM_26740_1RB#0



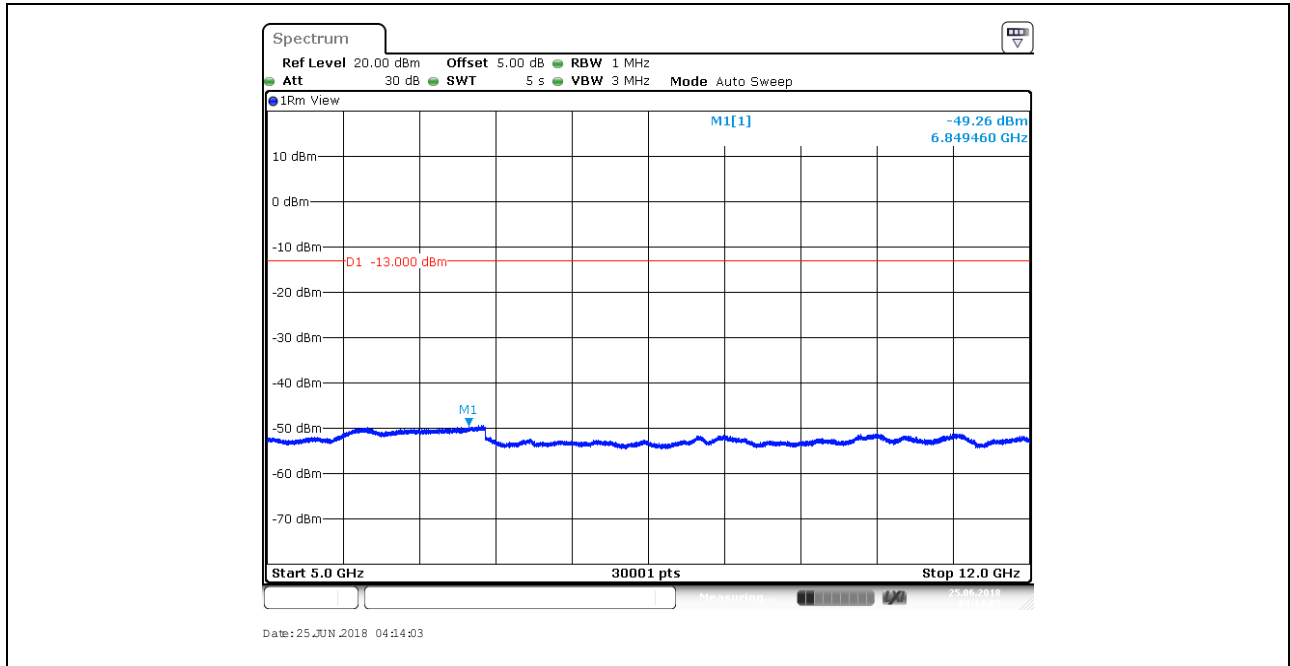
BAND 26_10MHz_64QAM_26740_1RB#0



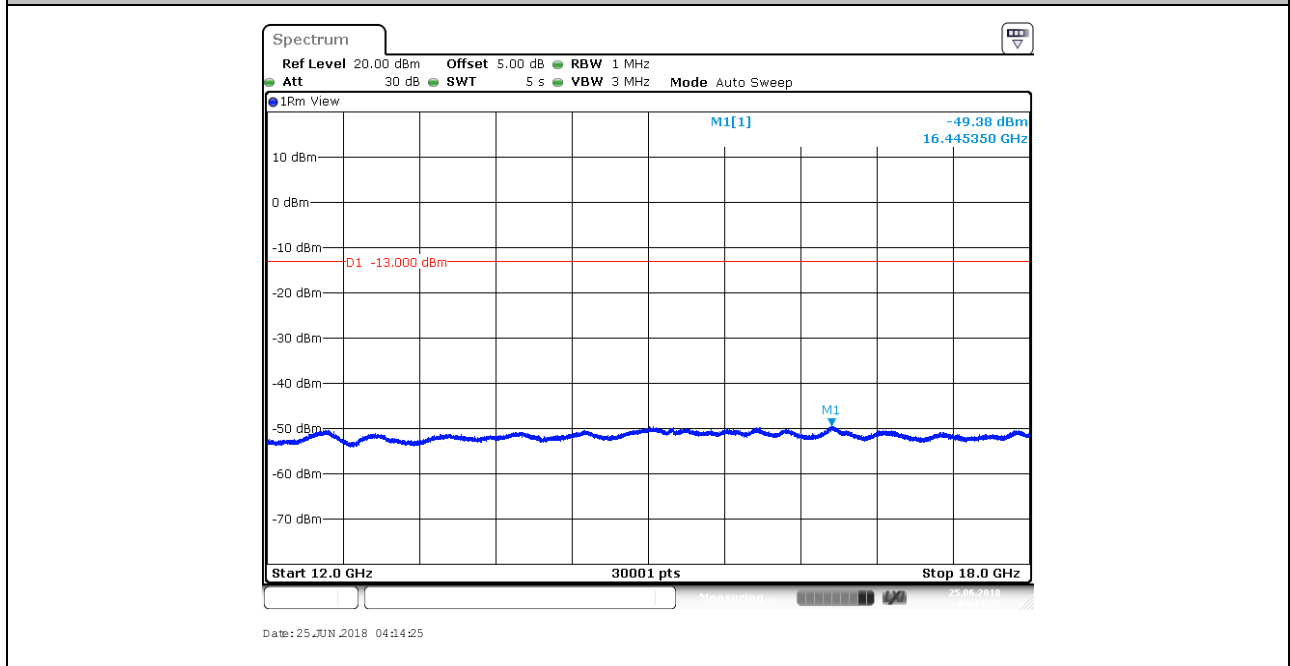
BAND 26_10MHz_64QAM_26740_1RB#0



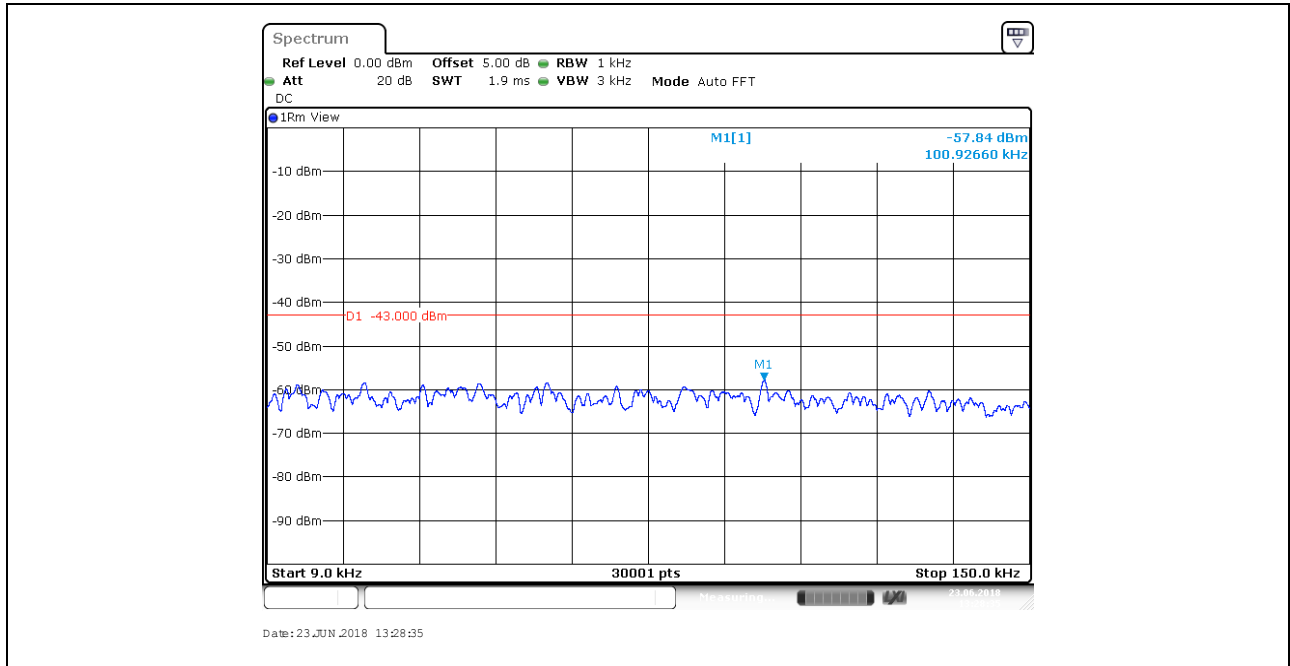
BAND 26_10MHz_64QAM_26740_1RB#0



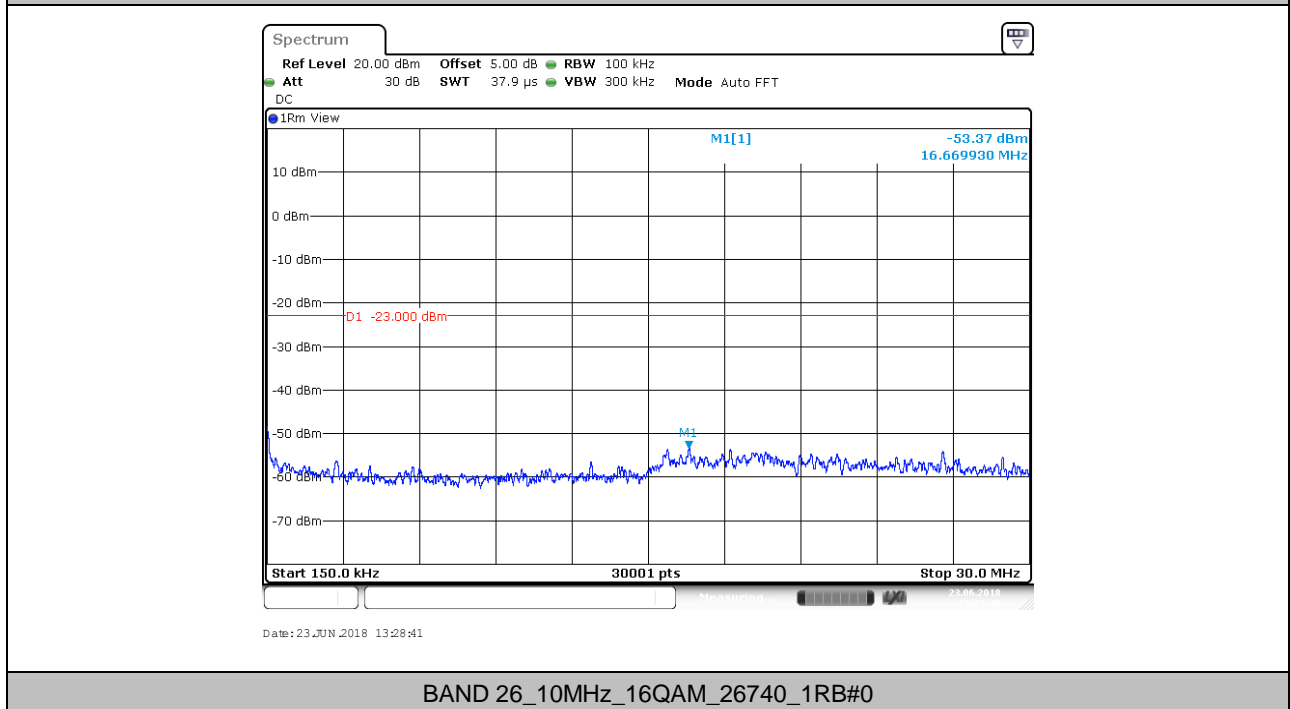
BAND 26_10MHz_64QAM_26740_1RB#0



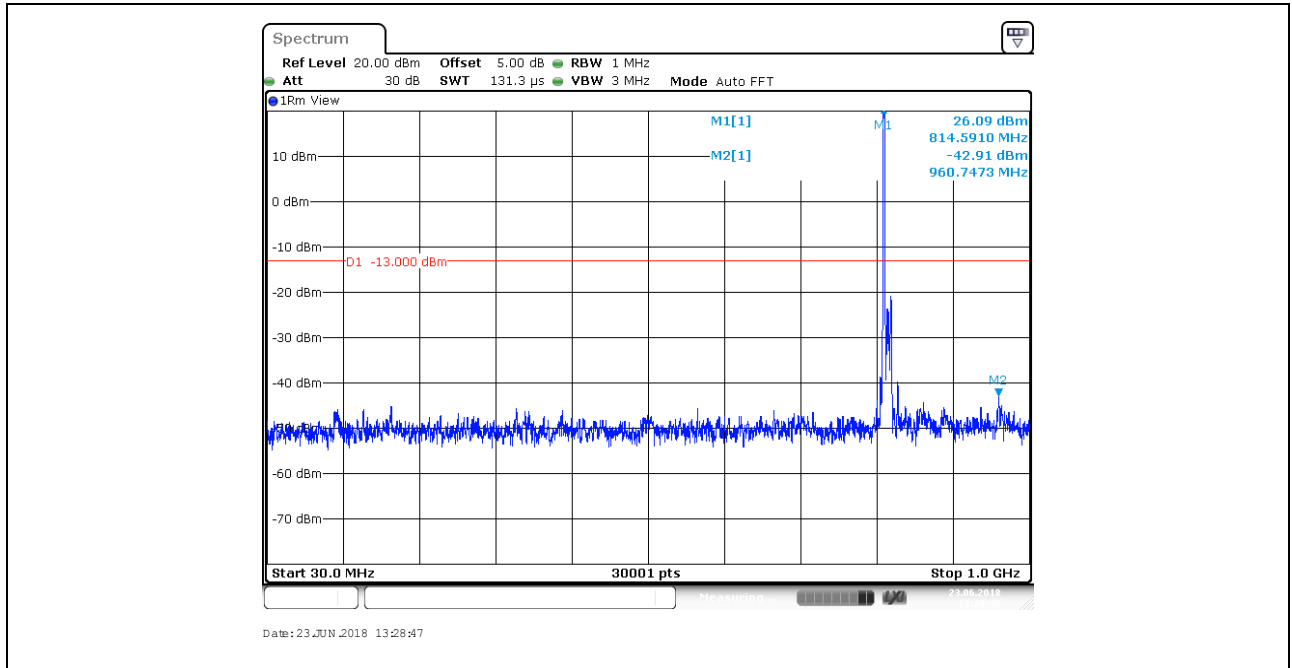
BAND 26_10MHz_16QAM_26740_1RB#0



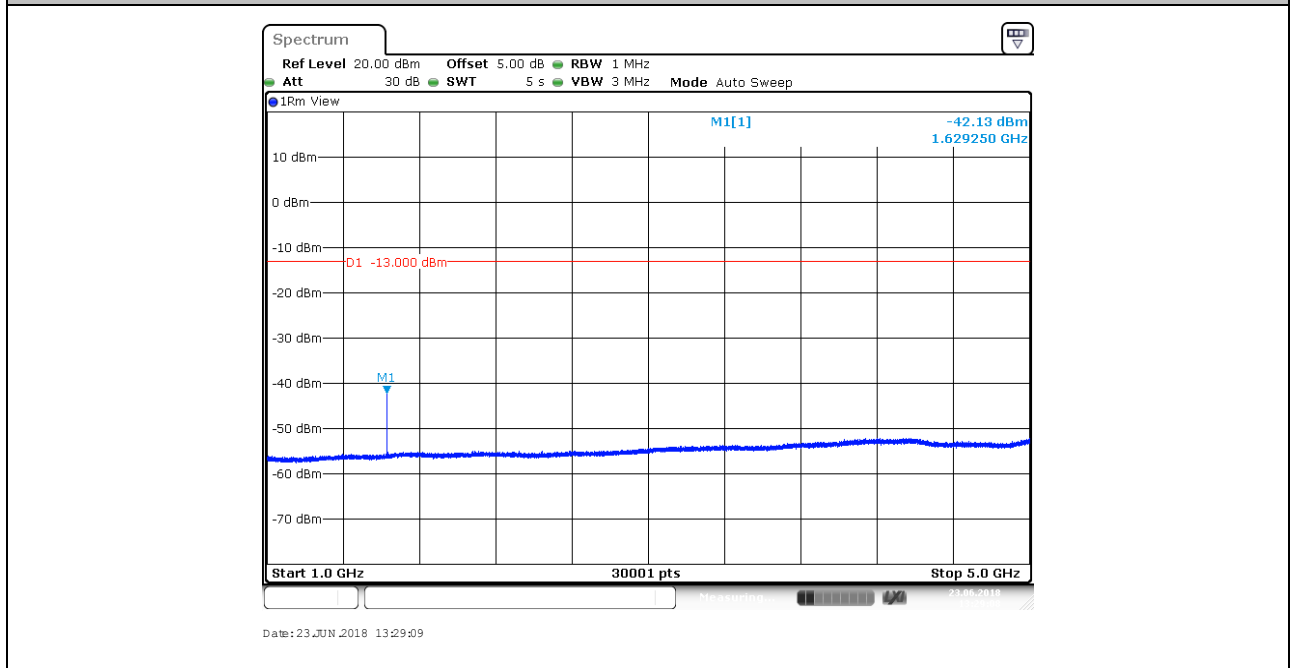
BAND 26_10MHz_16QAM_26740_1RB#0



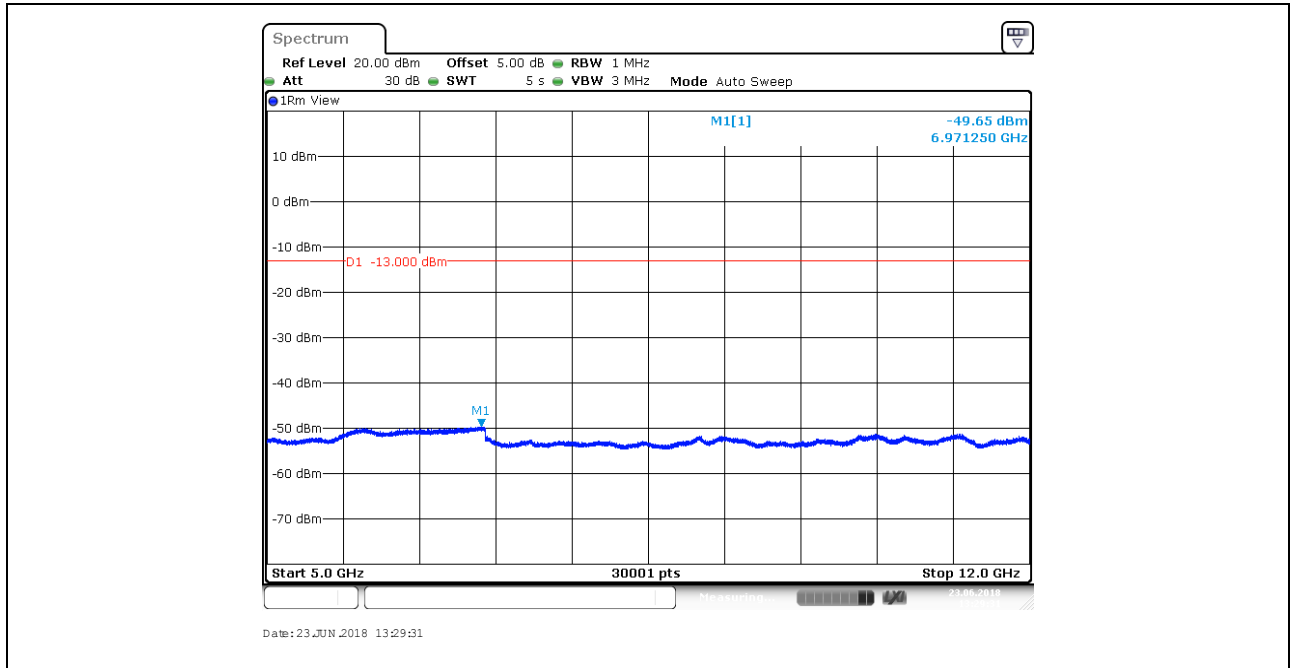
BAND 26_10MHz_16QAM_26740_1RB#0



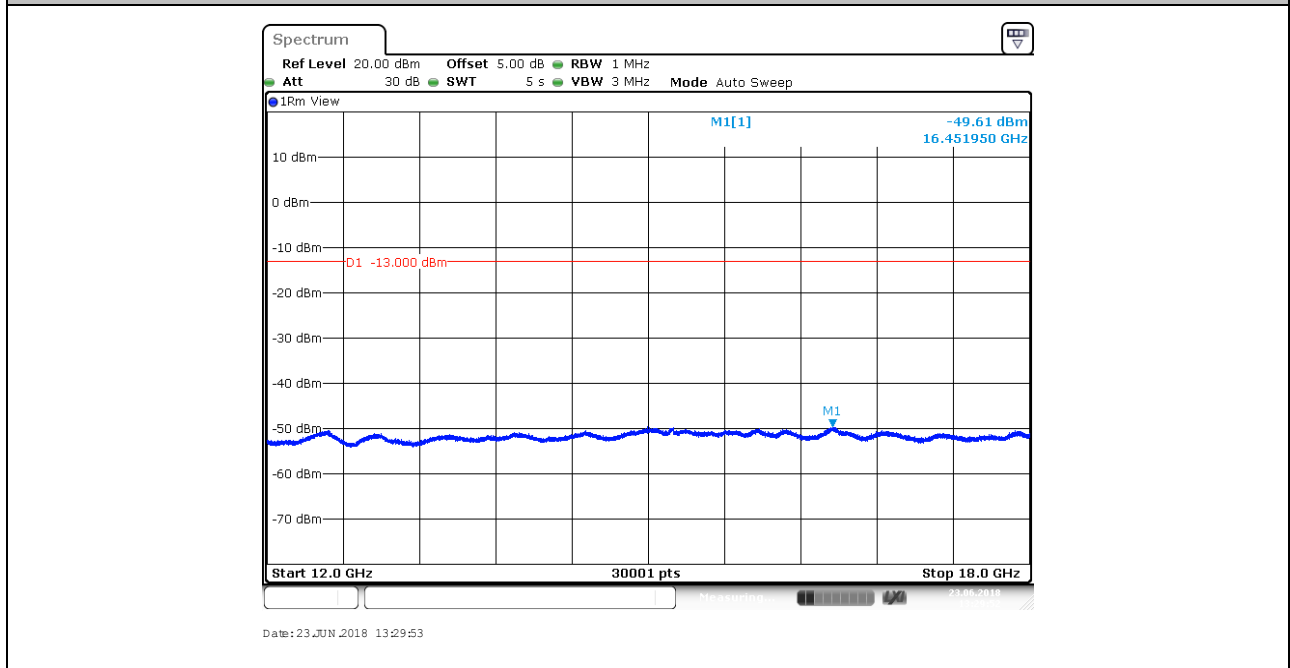
BAND 26_10MHz_16QAM_26740_1RB#0



BAND 26_10MHz_16QAM_26740_1RB#0



BAND 26_10MHz_16QAM_26740_1RB#0





7. Field Strength of Spurious Radiation

7.1. Test BAND = LTE BAND 26

7.1.1. Test Mode = LTE/TM1 10MHz RB1#0

7.1.1.1. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
72.000000	-74.69	-13.00	61.69	Vertical
120.533333	-81.43	-13.00	68.43	Vertical
179.006667	-79.12	-13.00	66.12	Vertical
1626.500000	-65.61	-13.00	52.61	Vertical
4299.187500	-67.13	-13.00	54.13	Vertical
6283.800000	-65.57	-13.00	52.57	Vertical
62.480000	-76.81	-13.00	63.81	Horizontal
181.760000	-72.81	-13.00	59.81	Horizontal
622.837500	-64.52	-13.00	51.52	Horizontal
1629.500000	-65.38	-13.00	52.38	Horizontal
3455.812500	-68.29	-13.00	55.29	Horizontal
6042.975000	-65.54	-13.00	52.54	Horizontal

NOTE:

- 1) All modes are tested, but the data presented above is the worst case. the disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.
- 2) We have tested all modulation and all Bandwidth, but only the worst case data presented in this report.



8. Frequency Stability

8.1. Frequency Vs Voltage

Voltage										
BAND	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
BAND 26	10MHz	QPSK	26740	50RB#0	VL	NT	-3.50	-0.004274	±2.5	PASS
BAND 26	10MHz	QPSK	26740	50RB#0	VN	NT	-3.50	-0.004274	±2.5	PASS
BAND 26	10MHz	QPSK	26740	50RB#0	VH	NT	-3.60	-0.004396	±2.5	PASS
BAND 26	10MHz	64QAM	26740	50RB#0	VL	NT	-0.10	-0.000122	±2.5	PASS
BAND 26	10MHz	64QAM	26740	50RB#0	VN	NT	-0.10	-0.000122	±2.5	PASS
BAND 26	10MHz	64QAM	26740	50RB#0	VH	NT	-2.00	-0.002442	±2.5	PASS
BAND 26	10MHz	16QAM	26740	50RB#0	VL	NT	-2.50	-0.003053	±2.5	PASS
BAND 26	10MHz	16QAM	26740	50RB#0	VN	NT	-2.20	-0.002686	±2.5	PASS
BAND 26	10MHz	16QAM	26740	50RB#0	VH	NT	-2.30	-0.002808	±2.5	PASS

8.2. Frequency Vs Temperature

Temperature										
BAND	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
BAND 26	10MHz	QPSK	26740	50RB#0	NV	-30	-3.50	-0.004274	±2.5	PASS
BAND 26	10MHz	QPSK	26740	50RB#0	NV	-20	-4.00	-0.004884	±2.5	PASS
BAND 26	10MHz	QPSK	26740	50RB#0	NV	0	-4.30	-0.005250	±2.5	PASS
BAND 26	10MHz	QPSK	26740	50RB#0	NV	10	-2.50	-0.003053	±2.5	PASS
BAND 26	10MHz	QPSK	26740	50RB#0	NV	20	-3.60	-0.004396	±2.5	PASS
BAND 26	10MHz	64QAM	26740	50RB#0	NV	-30	-1.90	-0.002320	±2.5	PASS
BAND 26	10MHz	64QAM	26740	50RB#0	NV	-20	2.10	0.002564	±2.5	PASS
BAND 26	10MHz	64QAM	26740	50RB#0	NV	0	0.90	0.001099	±2.5	PASS
BAND 26	10MHz	64QAM	26740	50RB#0	NV	10	0.00	0.000000	±2.5	PASS
BAND 26	10MHz	64QAM	26740	50RB#0	NV	20	0.80	0.000977	±2.5	PASS
BAND 26	10MHz	16QAM	26740	50RB#0	NV	-30	-2.10	-0.002564	±2.5	PASS
BAND 26	10MHz	16QAM	26740	50RB#0	NV	-20	-1.90	-0.002320	±2.5	PASS
BAND 26	10MHz	16QAM	26740	50RB#0	NV	0	-3.40	-0.004151	±2.5	PASS
BAND 26	10MHz	16QAM	26740	50RB#0	NV	10	-2.10	-0.002564	±2.5	PASS
BAND 26	10MHz	16QAM	26740	50RB#0	NV	20	-4.00	-0.004884	±2.5	PASS

The End