



# Appendix B

## E-UTRA Band CA\_41C



## CONTENT

	Page
<b>1 EFFECTIVE (ISOTROPIC) RADIATED POWER OUTPUT DATA .....</b>	<b>3</b>
<b>2 PEAK-TO-AVERAGE RATIO.....</b>	<b>5</b>
2.1 FOR LTE.....	6
2.1.1 Test Band = LTE Band CA_41C.....	6
<b>3 MODULATION CHARACTERISTICS .....</b>	<b>13</b>
3.1 FOR LTE.....	13
3.1.1 Test Band = LTE Band CA_41C.....	13
<b>4 BANDWIDTH.....</b>	<b>16</b>
4.1 FOR LTE.....	17
4.1.1 Test Band = LTE Band CA_41C.....	17
<b>5 BAND EDGES COMPLIANCE.....</b>	<b>30</b>
5.1 FOR LTE.....	30
5.1.1 Test Band = LTE Band CA_41C.....	30
<b>6 SPURIOUS EMISSION AT ANTENNA TERMINAL .....</b>	<b>47</b>
6.1 FOR LTE.....	47
6.1.1 Test Band = LTE Band CA_41C.....	47
<b>7 FIELD STRENGTH OF SPURIOUS RADIATION .....</b>	<b>52</b>
7.1 FOR LTE.....	52
7.1.1 Test Band = LTE Band CA_41C_Main Antenna.....	52
7.1.2 Test Band = LTE Band CA_41C_Secndondary Antenna.....	55
<b>8 FREQUENCY STABILITY.....</b>	<b>58</b>
8.1 FREQUENCY ERROR VS. VOLTAGE.....	58
8.2 FREQUENCY ERROR VS. TEMPERATURE.....	58

“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.



# 1 Effective (Isotropic) Radiated Power Output Data

## Effective Isotropic Radiated Power of Transmitter (EIRP) for LTE Band CA\_41C

BAND	Test Mode PCC/SCC	Channel PCC/SCC	RB Configuration		Modulation PCC&SCC	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
			PCC	SCC					
CA_41C	100RB+25RB	40240-40357	1RB@0	0RB@0	QPSK	21.75	22.95	33.00	Pass
CA_41C	100RB+25RB	40240-40357	18RB@0	0RB@0	QPSK	20.81	22.01	33.00	Pass
CA_41C	100RB+25RB	40665-40782	1RB@0	0RB@0	QPSK	21.78	22.98	33.00	Pass
CA_41C	100RB+25RB	40665-40782	18RB@0	0RB@0	QPSK	20.69	21.89	33.00	Pass
CA_41C	100RB+25RB	41098-41215	1RB@0	0RB@0	QPSK	21.68	22.88	33.00	Pass
CA_41C	100RB+25RB	41098-41215	18RB@0	0RB@0	QPSK	20.52	21.72	33.00	Pass
CA_41C	25RB+100RB	40357-40240	1RB@0	0RB@0	QPSK	21.74	22.94	33.00	Pass
CA_41C	25RB+100RB	40357-40240	8RB@0	0RB@0	QPSK	21.81	23.01	33.00	Pass
CA_41C	25RB+100RB	40782-40665	1RB@0	0RB@0	QPSK	21.47	22.67	33.00	Pass
CA_41C	25RB+100RB	40782-40665	8RB@0	0RB@0	QPSK	21.51	22.71	33.00	Pass
CA_41C	25RB+100RB	41215-41098	1RB@0	0RB@0	QPSK	21.56	22.76	33.00	Pass
CA_41C	25RB+100RB	41215-41098	8RB@0	0RB@0	QPSK	21.57	22.77	33.00	Pass
CA_41C	100RB+100RB	40240-40438	1RB@0	0RB@0	QPSK	22.00	23.20	33.00	Pass
CA_41C	100RB+100RB	40240-40438	18RB@0	0RB@0	QPSK	21.74	22.94	33.00	Pass
CA_41C	100RB+100RB	40591-40789	1RB@0	0RB@0	QPSK	21.92	23.12	33.00	Pass
CA_41C	100RB+100RB	40591-40789	18RB@0	0RB@0	QPSK	21.83	23.03	33.00	Pass
CA_41C	100RB+100RB	40942-41140	1RB@0	0RB@0	QPSK	21.92	23.12	33.00	Pass
CA_41C	100RB+100RB	40942-41140	18RB@0	0RB@0	QPSK	21.80	23.00	33.00	Pass
CA_41C	100RB+100RB	40438-40240	1RB@0	0RB@0	QPSK	21.69	22.89	33.00	Pass
CA_41C	100RB+100RB	40438-40240	18RB@0	0RB@0	QPSK	21.79	22.99	33.00	Pass
CA_41C	100RB+100RB	40789-40591	1RB@0	0RB@0	QPSK	21.48	22.68	33.00	Pass
CA_41C	100RB+100RB	40789-40591	18RB@0	0RB@0	QPSK	21.56	22.76	33.00	Pass
CA_41C	100RB+100RB	41140-40942	1RB@0	0RB@0	QPSK	21.47	22.67	33.00	Pass
CA_41C	100RB+100RB	41140-40942	18RB@0	0RB@0	QPSK	21.50	22.70	33.00	Pass
CA_41C	100RB+25RB	40240-40357	1RB@0	0RB@0	16QAM	20.73	21.93	33.00	Pass
CA_41C	100RB+25RB	40240-40357	18RB@0	0RB@0	16QAM	20.09	21.29	33.00	Pass
CA_41C	100RB+25RB	40665-40782	1RB@0	0RB@0	16QAM	20.75	21.95	33.00	Pass
CA_41C	100RB+25RB	40665-40782	18RB@0	0RB@0	16QAM	19.70	20.90	33.00	Pass
CA_41C	100RB+25RB	41098-41215	1RB@0	0RB@0	16QAM	20.88	22.08	33.00	Pass
CA_41C	100RB+25RB	41098-41215	18RB@0	0RB@0	16QAM	19.61	20.81	33.00	Pass
CA_41C	25RB+100RB	40357-40240	1RB@0	0RB@0	16QAM	20.68	21.88	33.00	Pass
CA_41C	25RB+100RB	40357-40240	8RB@0	0RB@0	16QAM	20.98	22.18	33.00	Pass
CA_41C	25RB+100RB	40782-40665	1RB@0	0RB@0	16QAM	20.70	21.90	33.00	Pass
CA_41C	25RB+100RB	40782-40665	8RB@0	0RB@0	16QAM	20.65	21.85	33.00	Pass
CA_41C	25RB+100RB	41215-41098	1RB@0	0RB@0	16QAM	20.76	21.96	33.00	Pass
CA_41C	25RB+100RB	41215-41098	8RB@0	0RB@0	16QAM	20.58	21.78	33.00	Pass
CA_41C	100RB+100RB	40240-40438	1RB@0	0RB@0	16QAM	20.99	22.19	33.00	Pass
CA_41C	100RB+100RB	40240-40438	18RB@0	0RB@0	16QAM	20.96	22.16	33.00	Pass
CA_41C	100RB+100RB	40591-40789	1RB@0	0RB@0	16QAM	21.11	22.31	33.00	Pass
CA_41C	100RB+100RB	40591-40789	18RB@0	0RB@0	16QAM	20.83	22.03	33.00	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.



CA_41C	100RB+100RB	40942-41140	1RB@0	0RB@0	16QAM	21.10	22.30	33.00	Pass
CA_41C	100RB+100RB	40942-41140	18RB@0	0RB@0	16QAM	20.81	22.01	33.00	Pass
CA_41C	100RB+100RB	40438-40240	1RB@0	0RB@0	16QAM	20.93	22.13	33.00	Pass
CA_41C	100RB+100RB	40438-40240	18RB@0	0RB@0	16QAM	20.85	22.05	33.00	Pass
CA_41C	100RB+100RB	40789-40591	1RB@0	0RB@0	16QAM	20.75	21.95	33.00	Pass
CA_41C	100RB+100RB	40789-40591	18RB@0	0RB@0	16QAM	20.60	21.80	33.00	Pass
CA_41C	100RB+100RB	41140-40942	1RB@0	0RB@0	16QAM	20.74	21.94	33.00	Pass
CA_41C	100RB+100RB	41140-40942	18RB@0	0RB@0	16QAM	20.58	21.78	33.00	Pass
CA_41C	100RB+25RB	40240-40357	1RB@0	0RB@0	64QAM	19.85	21.05	33.00	Pass
CA_41C	100RB+25RB	40240-40357	18RB@0	0RB@0	64QAM	19.19	20.39	33.00	Pass
CA_41C	100RB+25RB	40665-40782	1RB@0	0RB@0	64QAM	19.94	21.14	33.00	Pass
CA_41C	100RB+25RB	40665-40782	18RB@0	0RB@0	64QAM	18.99	20.19	33.00	Pass
CA_41C	100RB+25RB	41098-41215	1RB@0	0RB@0	64QAM	19.99	21.19	33.00	Pass
CA_41C	100RB+25RB	41098-41215	18RB@0	0RB@0	64QAM	18.54	19.74	33.00	Pass
CA_41C	25RB+100RB	40357-40240	1RB@0	0RB@0	64QAM	19.92	21.12	33.00	Pass
CA_41C	25RB+100RB	40357-40240	8RB@0	0RB@0	64QAM	20.15	21.35	33.00	Pass
CA_41C	25RB+100RB	40782-40665	1RB@0	0RB@0	64QAM	19.81	21.01	33.00	Pass
CA_41C	25RB+100RB	40782-40665	8RB@0	0RB@0	64QAM	19.75	20.95	33.00	Pass
CA_41C	25RB+100RB	41215-41098	1RB@0	0RB@0	64QAM	19.79	20.99	33.00	Pass
CA_41C	25RB+100RB	41215-41098	8RB@0	0RB@0	64QAM	19.81	21.01	33.00	Pass
CA_41C	100RB+100RB	40240-40438	1RB@0	0RB@0	64QAM	19.91	21.11	33.00	Pass
CA_41C	100RB+100RB	40240-40438	18RB@0	0RB@0	64QAM	20.10	21.30	33.00	Pass
CA_41C	100RB+100RB	40591-40789	1RB@0	0RB@0	64QAM	20.20	21.40	33.00	Pass
CA_41C	100RB+100RB	40591-40789	18RB@0	0RB@0	64QAM	19.88	21.08	33.00	Pass
CA_41C	100RB+100RB	40942-41140	1RB@0	0RB@0	64QAM	20.38	21.58	33.00	Pass
CA_41C	100RB+100RB	40942-41140	18RB@0	0RB@0	64QAM	19.72	20.92	33.00	Pass
CA_41C	100RB+100RB	40438-40240	1RB@0	0RB@0	64QAM	20.08	21.28	33.00	Pass
CA_41C	100RB+100RB	40438-40240	18RB@0	0RB@0	64QAM	20.11	21.31	33.00	Pass
CA_41C	100RB+100RB	40789-40591	1RB@0	0RB@0	64QAM	19.74	20.94	33.00	Pass
CA_41C	100RB+100RB	40789-40591	18RB@0	0RB@0	64QAM	19.78	20.98	33.00	Pass
CA_41C	100RB+100RB	41140-40942	1RB@0	0RB@0	64QAM	19.96	21.16	33.00	Pass
CA_41C	100RB+100RB	41140-40942	18RB@0	0RB@0	64QAM	19.63	20.83	33.00	Pass

Note:

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

$$\text{EIRP [dBm]} = \text{SGP [dBm]} - \text{Cable Loss [dB]} + \text{Gain [dBi]}$$

b: SGP=Signal Generator Level

\*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.



## 2 Peak-to-Average Ratio

### Part I - Test Results

Test Band	Modulation	Test Mode	Test Channel	PCC RB Config	SCC RB Config	Measured [dB]	Limit [dB]	Verdict
CA_41C	QPSK	100RB+100RB	40240+40438	100RB@0	100RB@0	6.67	13	PASS
CA_41C	QPSK	100RB+100RB	40591+40789	100RB@0	100RB@0	6.70	13	PASS
CA_41C	QPSK	100RB+100RB	40942+41140	100RB@0	100RB@0	7.30	13	PASS
CA_41C	QPSK	100RB+100RB	40438+40240	100RB@0	100RB@0	6.49	13	PASS
CA_41C	QPSK	100RB+100RB	40789+40591	100RB@0	100RB@0	6.55	13	PASS
CA_41C	QPSK	100RB+100RB	41140+40942	100RB@0	100RB@0	6.58	13	PASS
CA_41C	16QAM	100RB+100RB	40240+40438	100RB@0	100RB@0	6.84	13	PASS
CA_41C	16QAM	100RB+100RB	40591+40789	100RB@0	100RB@0	7.54	13	PASS
CA_41C	16QAM	100RB+100RB	40942+41140	100RB@0	100RB@0	6.99	13	PASS
CA_41C	16QAM	100RB+100RB	40438+40240	100RB@0	100RB@0	7.57	13	PASS
CA_41C	16QAM	100RB+100RB	40789+40591	100RB@0	100RB@0	7.68	13	PASS
CA_41C	16QAM	100RB+100RB	41140+40942	100RB@0	100RB@0	7.54	13	PASS
CA_41C	64QAM	100RB+100RB	40240+40438	100RB@0	100RB@0	7.88	13	PASS
CA_41C	64QAM	100RB+100RB	40591+40789	100RB@0	100RB@0	7.10	13	PASS
CA_41C	64QAM	100RB+100RB	40942+41140	100RB@0	100RB@0	7.01	13	PASS
CA_41C	64QAM	100RB+100RB	40438+40240	100RB@0	100RB@0	6.96	13	PASS
CA_41C	64QAM	100RB+100RB	40789+40591	100RB@0	100RB@0	7.13	13	PASS
CA_41C	64QAM	100RB+100RB	41140+40942	100RB@0	100RB@0	7.71	13	PASS



Part II - Test Plots

**2.1 For LTE**

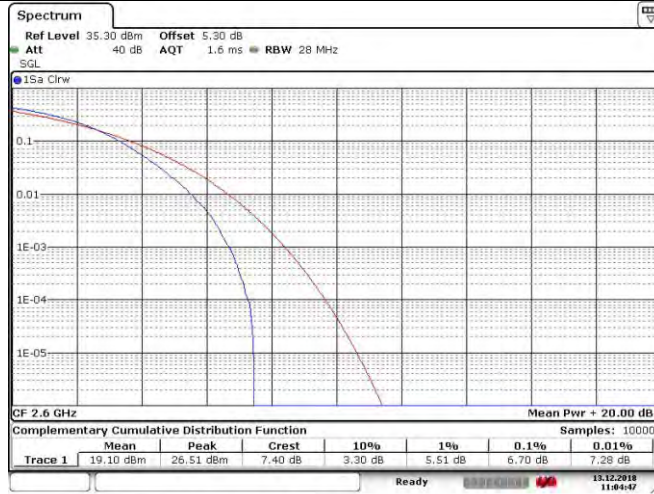
**2.1.1 Test Band = LTE Band CA\_41C**

CA\_41C\_QPSK\_100RB+100RB\_40240+40438\_PCC:100RB@0\_SCC:100RB@0



Date: 13.DEC.2018 11:04:21

CA\_41C\_QPSK\_100RB+100RB\_40591+40789\_PCC:100RB@0\_SCC:100RB@0



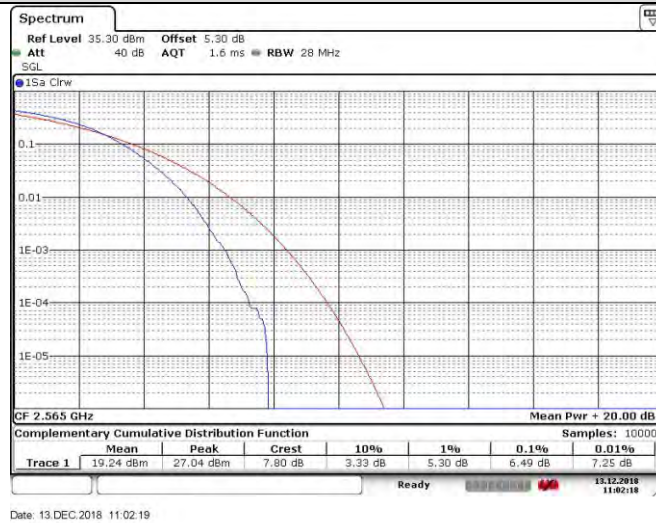
Date: 13.DEC.2018 11:04:47

CA\_41C\_QPSK\_100RB+100RB\_40942+41140\_PCC:100RB@0\_SCC:100RB@0





CA\_41C\_QPSK\_100RB+100RB\_40438+40240\_PCC:100RB@0\_SCC:100RB@0



CA\_41C\_QPSK\_100RB+100RB\_40789+40591\_PCC:100RB@0\_SCC:100RB@0



CA\_41C\_QPSK\_100RB+100RB\_41140+40942\_PCC:100RB@0\_SCC:100RB@0

"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 herein 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.



Date: 13.DEC.2018 11:07:55

**CA\_41C\_16QAM\_100RB+100RB\_40240+40438\_PCC:100RB@0\_SCC:100RB@0**



Date: 13.DEC.2018 11:04:04

**CA\_41C\_16QAM\_100RB+100RB\_40591+40789\_PCC:100RB@0\_SCC:100RB@0**

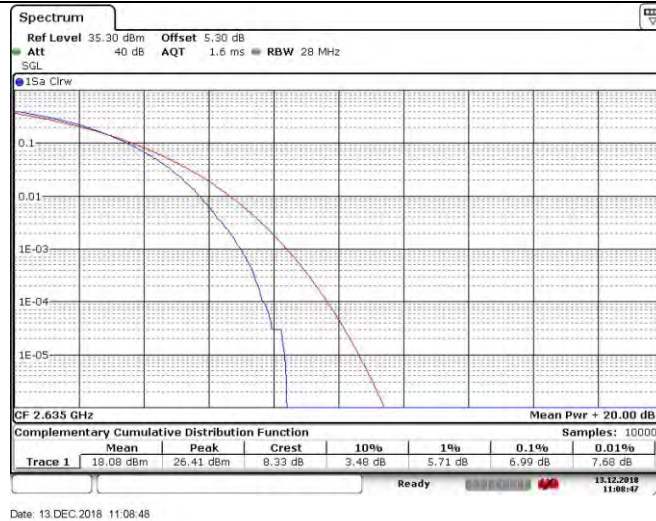


Date: 13.DEC.2018 11:05:17

**CA\_41C\_16QAM\_100RB+100RB\_40942+41140\_PCC:100RB@0\_SCC:100RB@0**

"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.

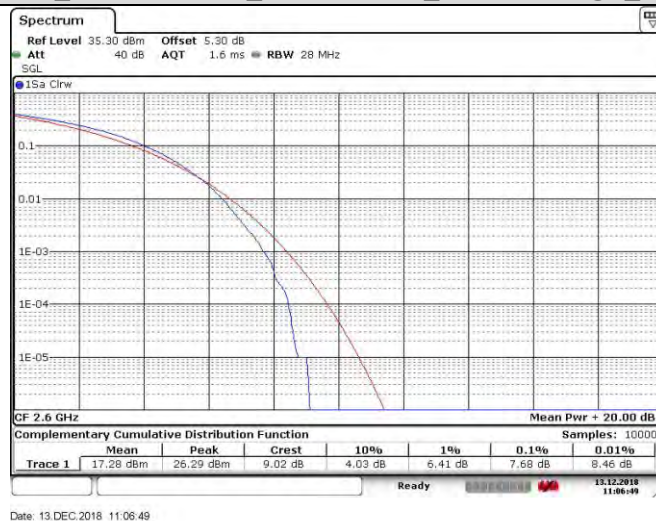




CA\_41C\_16QAM\_100RB+100RB\_40438+40240\_PCC:100RB@0\_SCC:100RB@0



CA\_41C\_16QAM\_100RB+100RB\_40789+40591\_PCC:100RB@0\_SCC:100RB@0



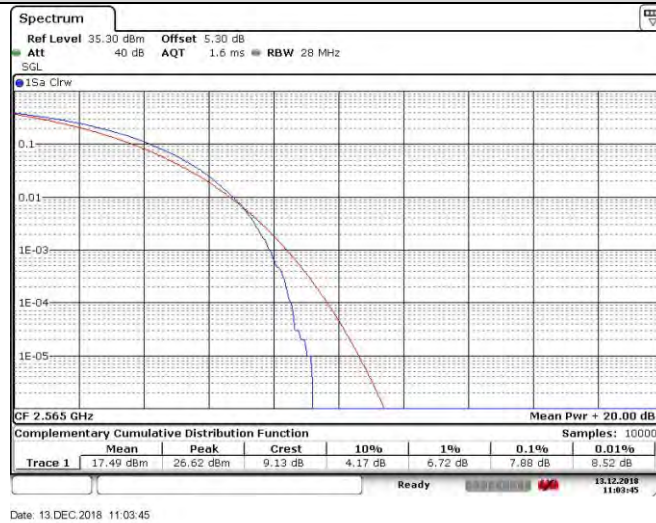
CA\_41C\_16QAM\_100RB+100RB\_41140+40942\_PCC:100RB@0\_SCC:100RB@0

"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.



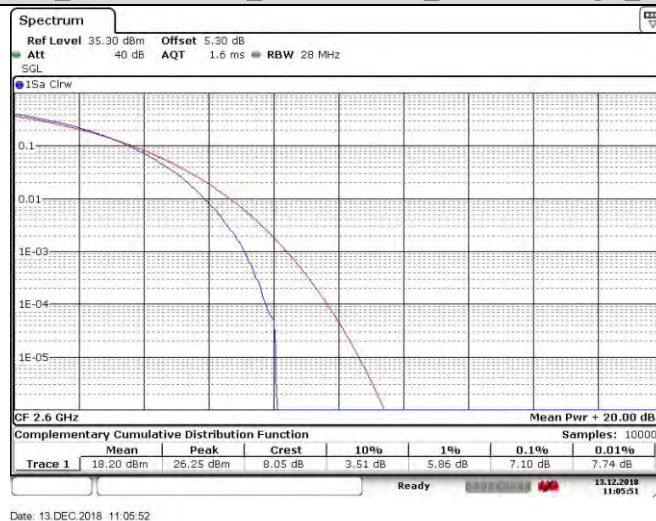
Date: 13.DEC.2018 11:08:10

**CA\_41C\_64QAM\_100RB+100RB\_40240+40438\_PCC:100RB@0\_SCC:100RB@0**



Date: 13.DEC.2018 11:03:45

**CA\_41C\_64QAM\_100RB+100RB\_40591+40789\_PCC:100RB@0\_SCC:100RB@0**

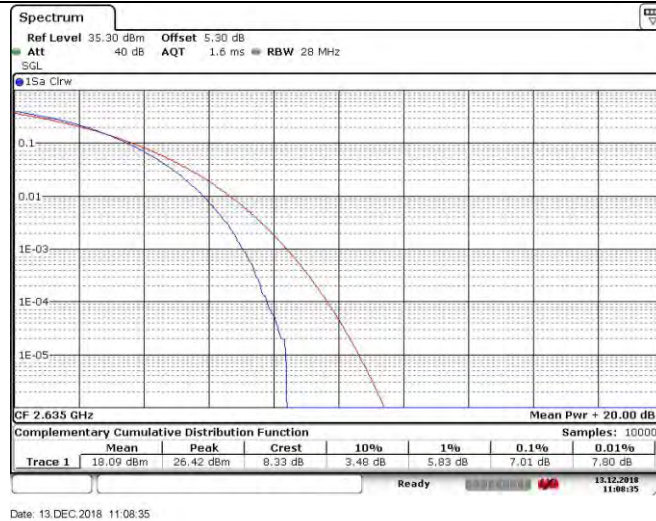


Date: 13.DEC.2018 11:05:52

**CA\_41C\_64QAM\_100RB+100RB\_40942+41140\_PCC:100RB@0\_SCC:100RB@0**

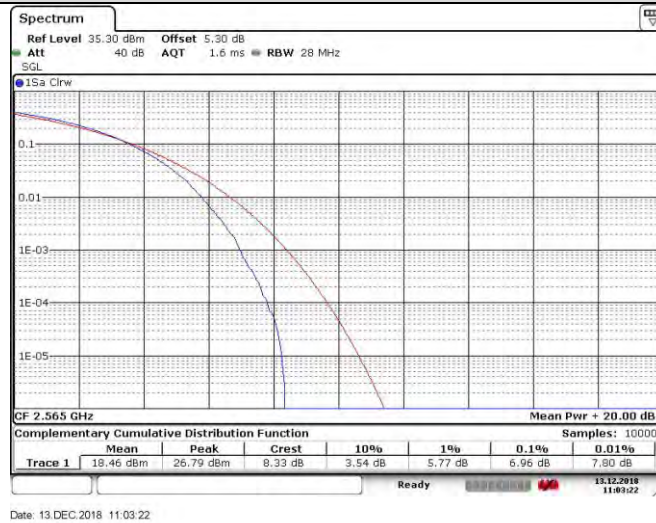
"This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. 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.





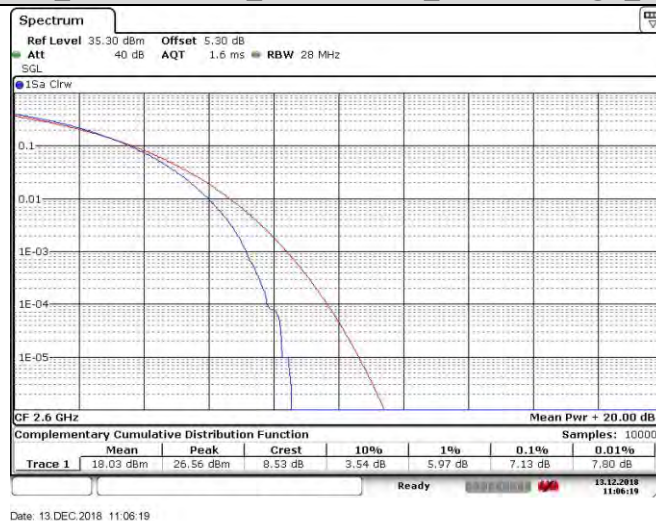
Date: 13.DEC.2018 11:08:35

CA\_41C\_64QAM\_100RB+100RB\_40438+40240\_PCC:100RB@0\_SCC:100RB@0



Date: 13.DEC.2018 11:03:22

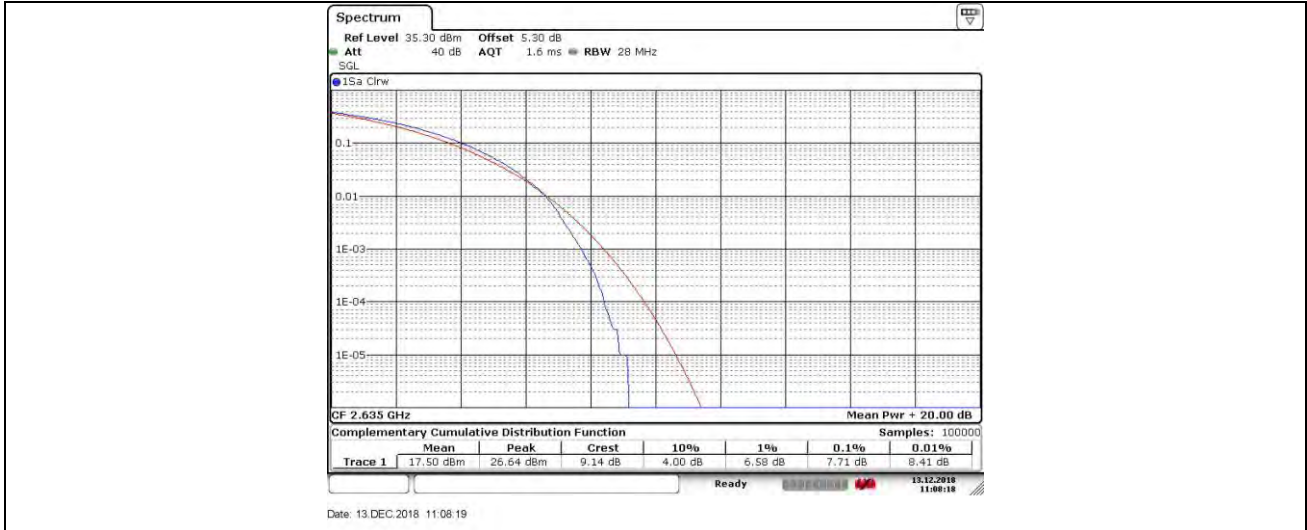
CA\_41C\_64QAM\_100RB+100RB\_40789+40591\_PCC:100RB@0\_SCC:100RB@0



Date: 13.DEC.2018 11:06:19

CA\_41C\_64QAM\_100RB+100RB\_41140+40942\_PCC:100RB@0\_SCC:100RB@0

"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.



"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 herein 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.





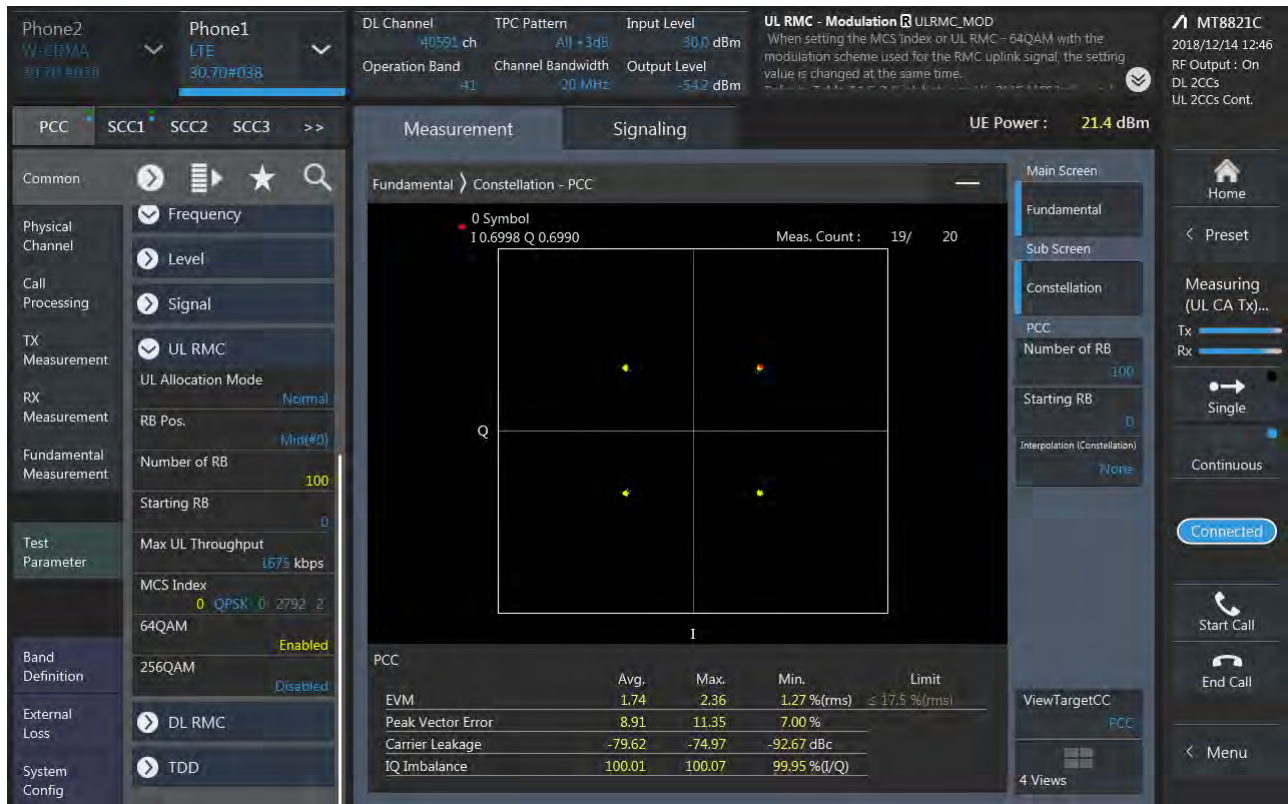
### 3 Modulation Characteristics

#### 3.1 For LTE

##### 3.1.1 Test Band = LTE Band CA\_41C

##### 3.1.1.1 Test Mode = LTE /QPSK 100RB+100RB

##### 3.1.1.1.1 Test Channel = 40591+40789

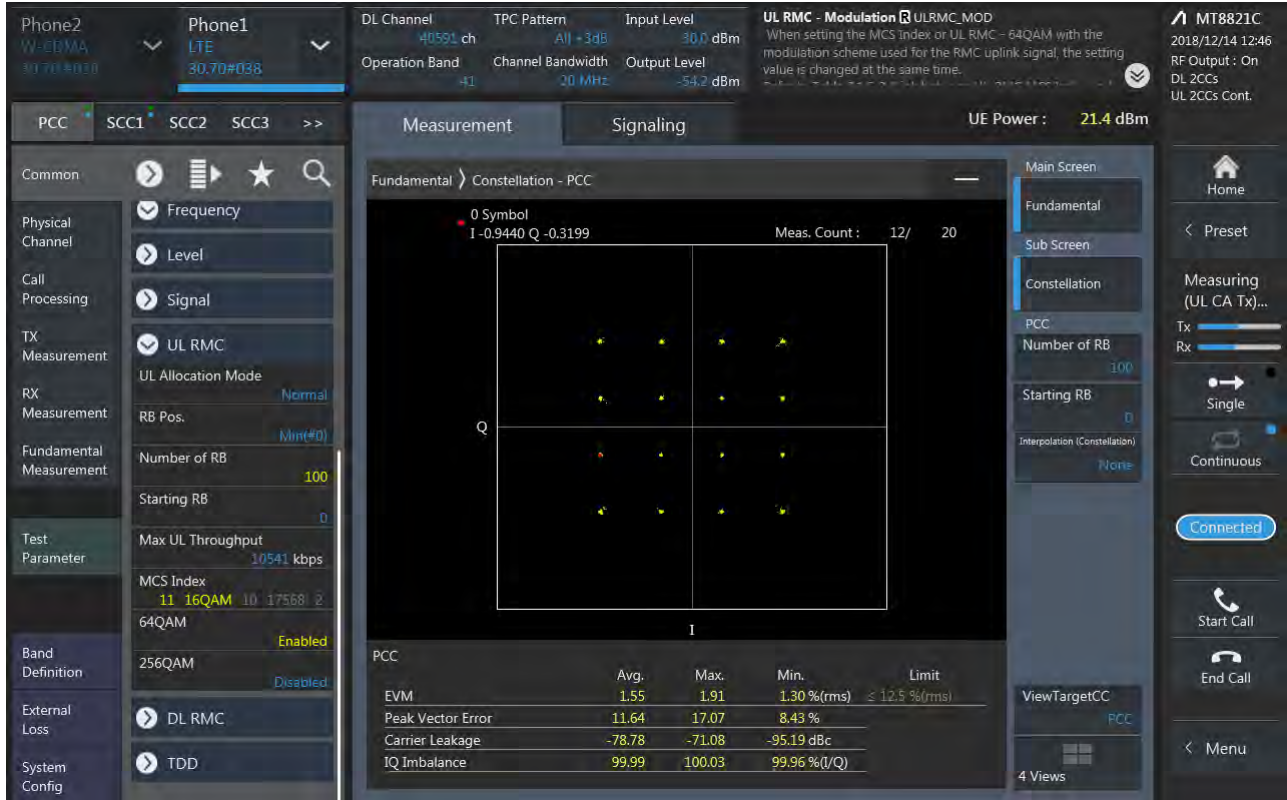


"This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained herein 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.



**3.1.1.2 Test Mode = LTE /16QAM 100RB+100RB**

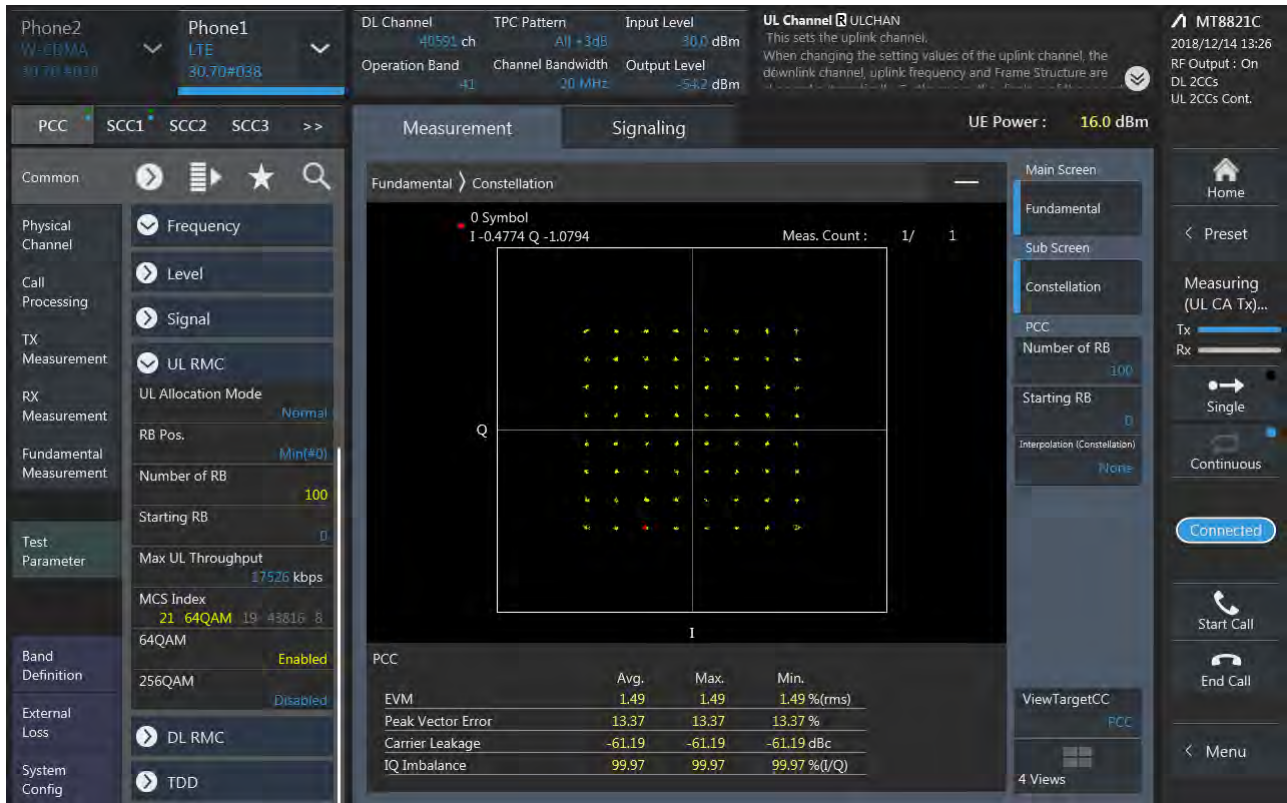
**3.1.1.2.1 Test Channel = 40591+40789**





**3.1.1.3 Test Mode = LTE /64QAM 100RB+100RB**

**3.1.1.3.1 Test Channel = 40591+40789**





## 4 Bandwidth

Test Band	Modulation PCC&SCC	Test Mode PCC/SCC	Test Channel PCC/SCC	PCC RB	SCC RB	OBW [MHz]	EBW [MHz]	Verdict
CA_41C	QPSK	100RB+25RB	40240+40357	100RB@0	25RB@0	22.83	24.23	PASS
CA_41C	QPSK	100RB+25RB	40665+40782	100RB@0	25RB@0	22.88	24.08	PASS
CA_41C	QPSK	100RB+25RB	41098+41215	100RB@0	25RB@0	22.83	24.13	PASS
CA_41C	QPSK	25RB+100RB	40357+40240	25RB@0	100RB@0	22.83	23.98	PASS
CA_41C	QPSK	25RB+100RB	40782+40665	25RB@0	100RB@0	22.88	24.18	PASS
CA_41C	QPSK	25RB+100RB	41215+41098	25RB@0	100RB@0	22.88	23.98	PASS
CA_41C	16QAM	100RB+25RB	40240+40357	100RB@0	25RB@0	22.88	24.18	PASS
CA_41C	16QAM	100RB+25RB	40665+40782	100RB@0	25RB@0	22.88	24.28	PASS
CA_41C	16QAM	100RB+25RB	41098+41215	100RB@0	25RB@0	22.83	24.13	PASS
CA_41C	16QAM	25RB+100RB	40357+40240	25RB@0	100RB@0	22.83	24.13	PASS
CA_41C	16QAM	25RB+100RB	40782+40665	25RB@0	100RB@0	22.88	24.38	PASS
CA_41C	16QAM	25RB+100RB	41215+41098	25RB@0	100RB@0	22.83	24.33	PASS
CA_41C	64QAM	100RB+25RB	40240+40357	100RB@0	25RB@0	22.88	24.13	PASS
CA_41C	64QAM	100RB+25RB	40665+40782	100RB@0	25RB@0	22.88	24.08	PASS
CA_41C	64QAM	100RB+25RB	41098+41215	100RB@0	25RB@0	22.93	24.08	PASS
CA_41C	64QAM	25RB+100RB	40357+40240	25RB@0	100RB@0	22.88	23.78	PASS
CA_41C	64QAM	25RB+100RB	40782+40665	25RB@0	100RB@0	22.88	23.78	PASS
CA_41C	64QAM	25RB+100RB	41215+41098	25RB@0	100RB@0	22.88	23.93	PASS
CA_41C	QPSK	100RB+100RB	40240+40438	100RB@0	100RB@0	37.52	39.62	PASS
CA_41C	QPSK	100RB+100RB	40591+40789	100RB@0	100RB@0	37.46	39.62	PASS
CA_41C	QPSK	100RB+100RB	40942+41140	100RB@0	100RB@0	37.46	39.50	PASS
CA_41C	QPSK	100RB+100RB	40438+40240	100RB@0	100RB@0	37.58	40.10	PASS
CA_41C	QPSK	100RB+100RB	40789+40591	100RB@0	100RB@0	37.58	39.80	PASS
CA_41C	QPSK	100RB+100RB	41140+40942	100RB@0	100RB@0	37.52	40.04	PASS
CA_41C	16QAM	100RB+100RB	40240+40438	100RB@0	100RB@0	37.52	39.56	PASS
CA_41C	16QAM	100RB+100RB	40591+40789	100RB@0	100RB@0	37.40	39.62	PASS
CA_41C	16QAM	100RB+100RB	40942+41140	100RB@0	100RB@0	37.40	39.62	PASS
CA_41C	16QAM	100RB+100RB	40438+40240	100RB@0	100RB@0	37.52	39.62	PASS
CA_41C	16QAM	100RB+100RB	40789+40591	100RB@0	100RB@0	37.46	39.56	PASS
CA_41C	16QAM	100RB+100RB	41140+40942	100RB@0	100RB@0	37.58	39.68	PASS
CA_41C	64QAM	100RB+100RB	40240+40438	100RB@0	100RB@0	37.58	39.62	PASS
CA_41C	64QAM	100RB+100RB	40591+40789	100RB@0	100RB@0	37.46	39.44	PASS
CA_41C	64QAM	100RB+100RB	40942+41140	100RB@0	100RB@0	37.52	39.50	PASS
CA_41C	64QAM	100RB+100RB	40438+40240	100RB@0	100RB@0	37.52	39.56	PASS
CA_41C	64QAM	100RB+100RB	40789+40591	100RB@0	100RB@0	37.58	39.50	PASS

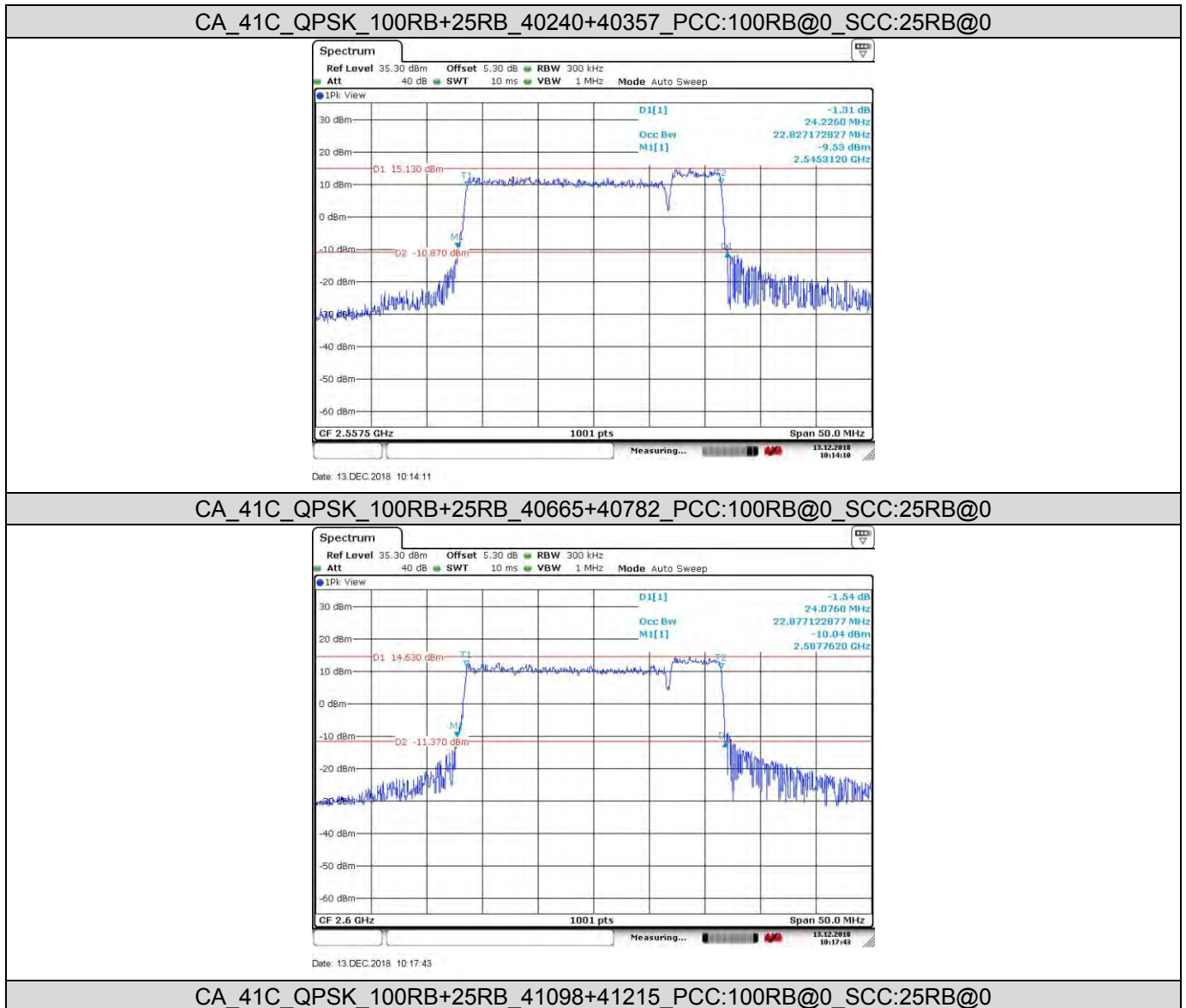




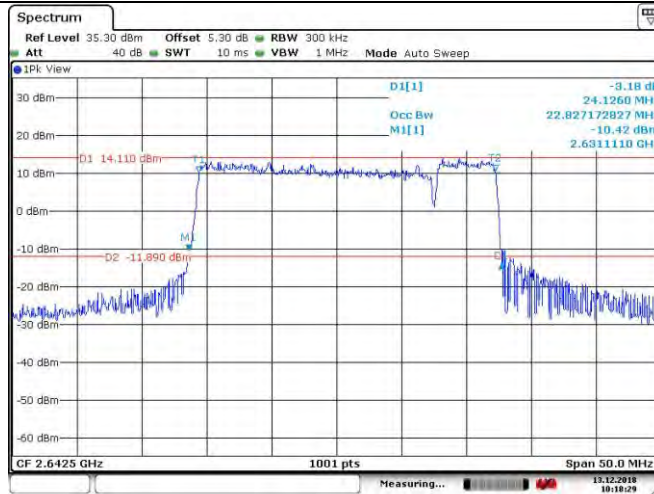
Test Band	Modulation PCC&SCC	Test Mode PCC/SCC	Test Channel PCC/SCC	PCC RB	SCC RB	OBW [MHz]	EBW [MHz]	Verdict
CA_41C	64QAM	100RB+100RB	41140+40942	100RB@0	100RB@0	37.58	39.68	PASS

## 4.1 For LTE

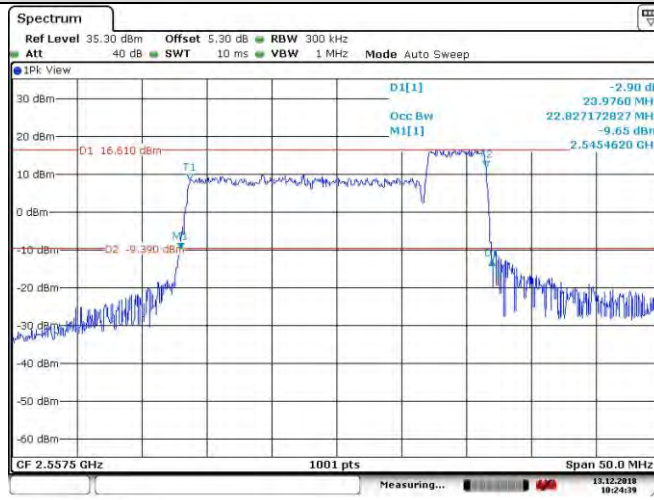
### 4.1.1 Test Band = LTE Band CA\_41C



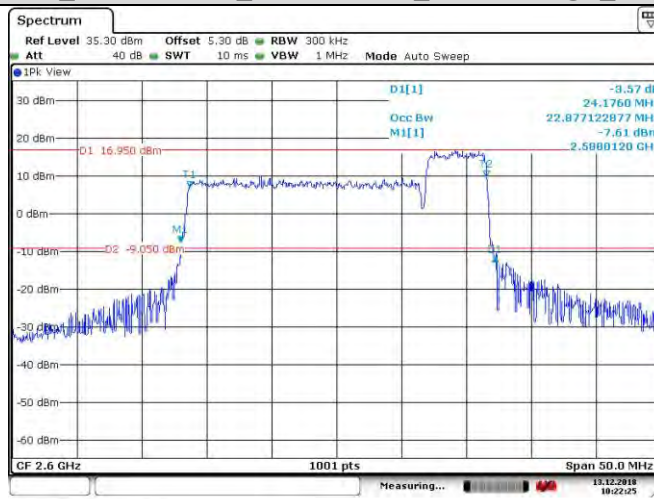
“This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained herein 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.



CA\_41C\_QPSK\_25RB+100RB\_40357+40240\_PCC:25RB@0\_SCC:100RB@0

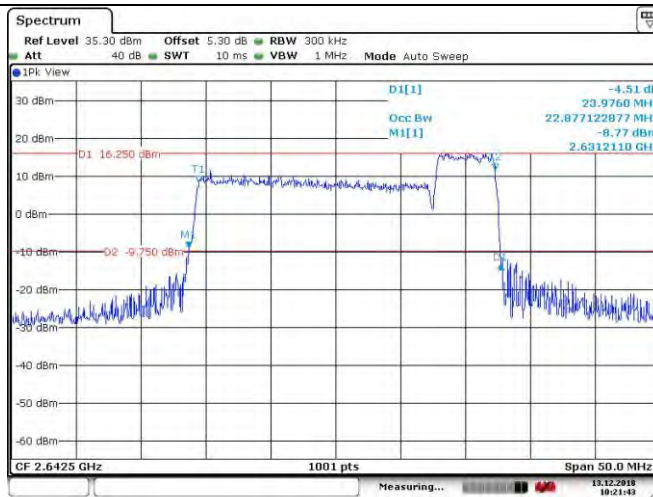


CA\_41C\_QPSK\_25RB+100RB\_40782+40665\_PCC:25RB@0\_SCC:100RB@0

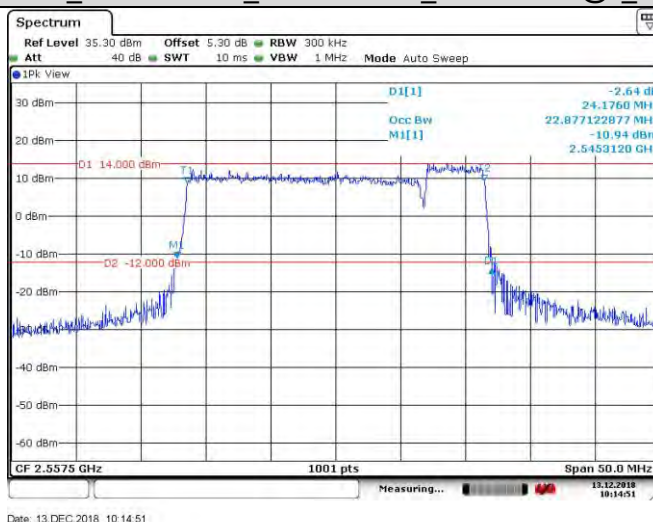


CA\_41C\_QPSK\_25RB+100RB\_41215+41098\_PCC:25RB@0\_SCC:100RB@0

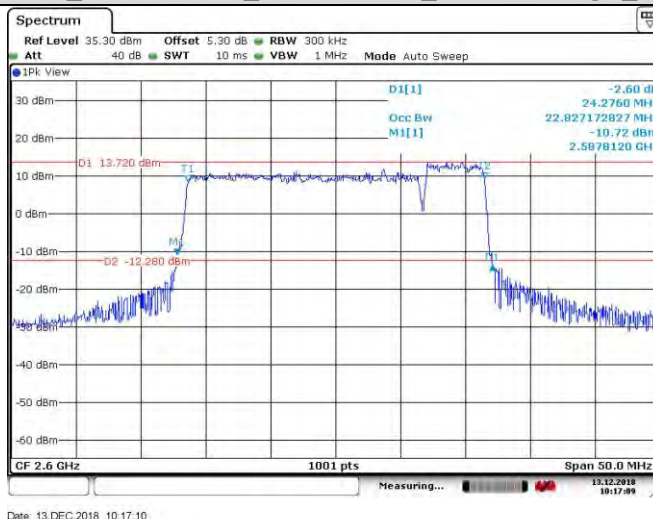
<sup>4</sup>This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <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 herein 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.



CA\_41C\_16QAM\_100RB+25RB\_40240+40357\_PCC:100RB@0\_SCC:25RB@0

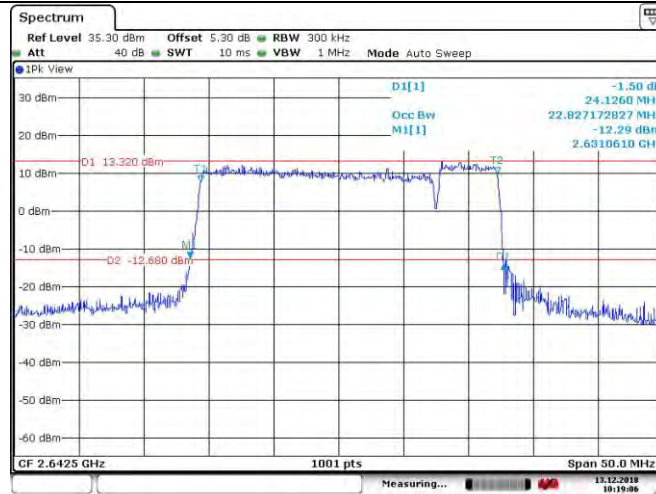


CA\_41C\_16QAM\_100RB+25RB\_40665+40782\_PCC:100RB@0\_SCC:25RB@0



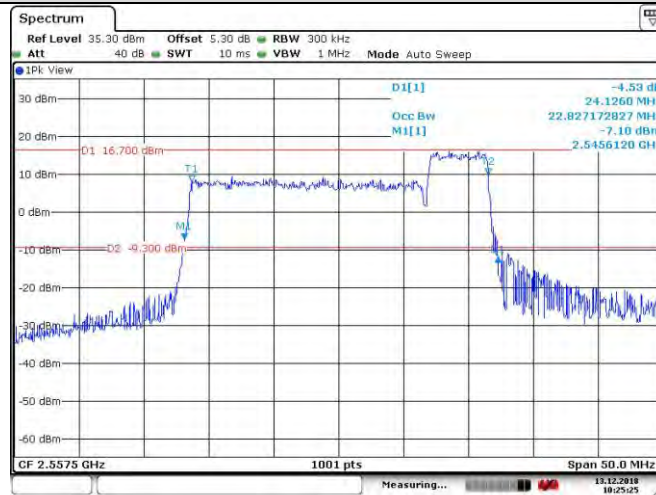
CA\_41C\_16QAM\_100RB+25RB\_41098+41215\_PCC:100RB@0\_SCC:25RB@0

“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 herein 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.



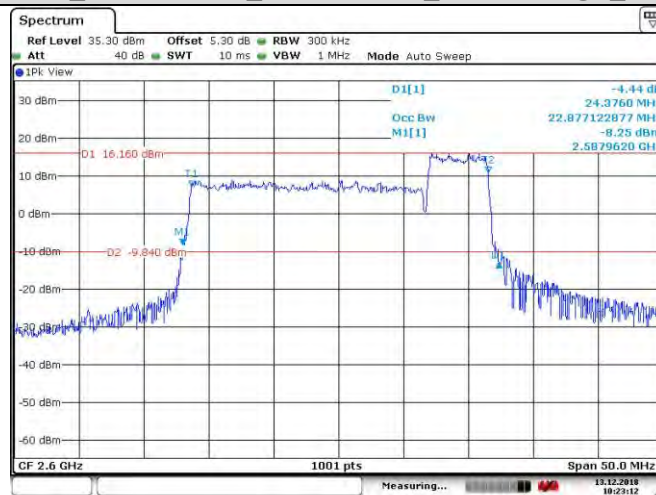
Date: 13.DEC.2018 10:19:07

CA\_41C\_16QAM\_25RB+100RB\_40357+40240\_PCC:25RB@0\_SCC:100RB@0



Date: 13.DEC.2018 10:25:25

CA\_41C\_16QAM\_25RB+100RB\_40782+40665\_PCC:25RB@0\_SCC:100RB@0

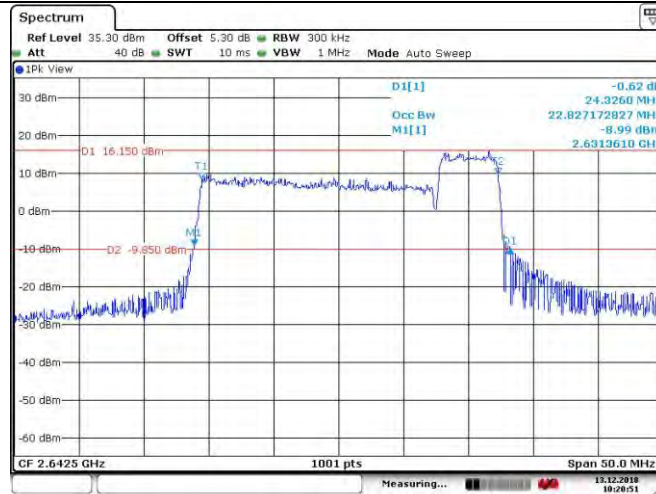


Date: 13.DEC.2018 10:23:13

CA\_41C\_16QAM\_25RB+100RB\_41215+41098\_PCC:25RB@0\_SCC:100RB@0

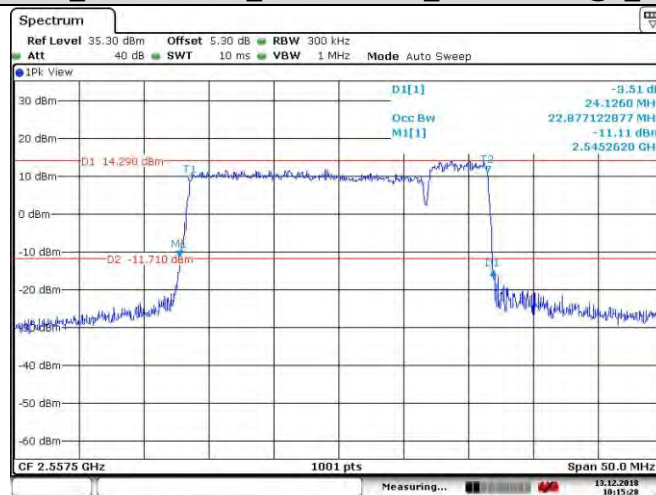
<sup>4</sup>This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <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 herein 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.





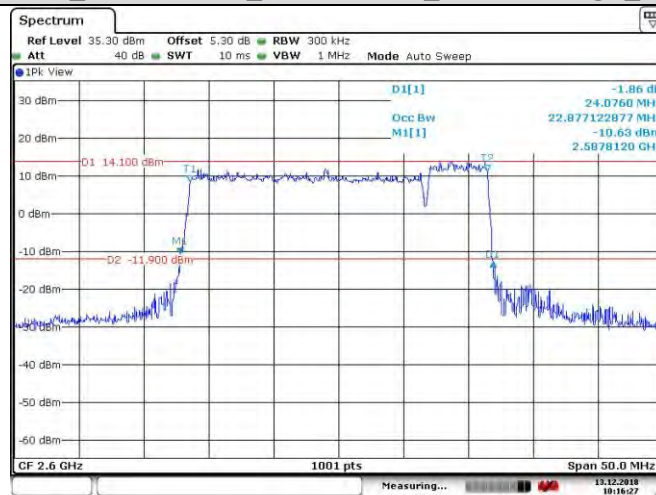
Date: 13.DEC.2018 10:20:52

CA\_41C\_64QAM\_100RB+25RB\_40240+40357\_PCC:100RB@0\_SCC:25RB@0



Date: 13.DEC.2018 10:15:28

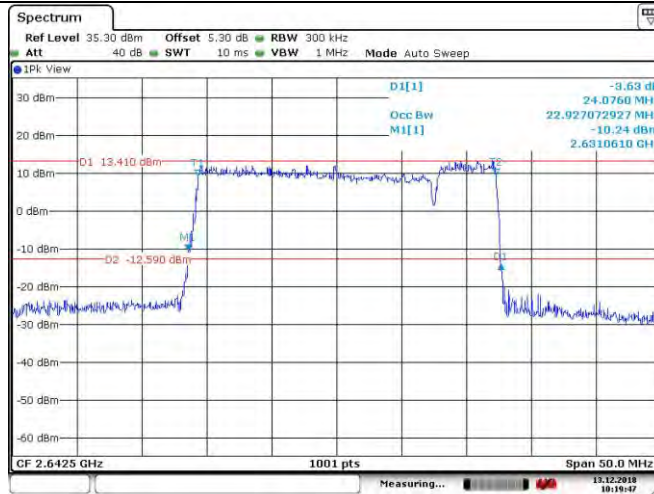
CA\_41C\_64QAM\_100RB+25RB\_40665+40782\_PCC:100RB@0\_SCC:25RB@0



Date: 13.DEC.2018 10:16:27

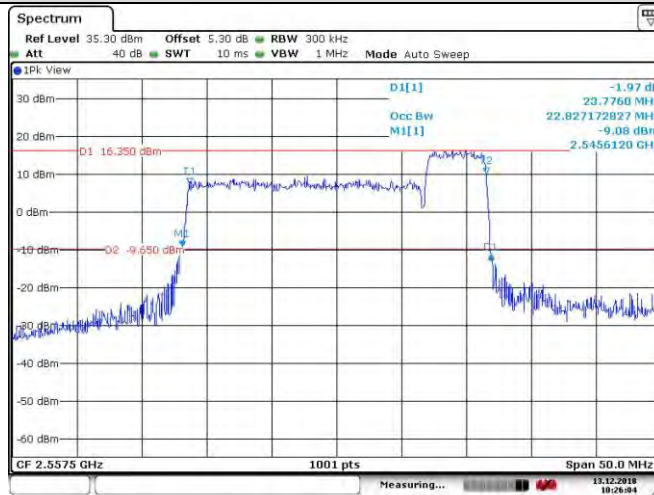
CA\_41C\_64QAM\_100RB+25RB\_41098+41215\_PCC:100RB@0\_SCC:25RB@0

<sup>4</sup>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.



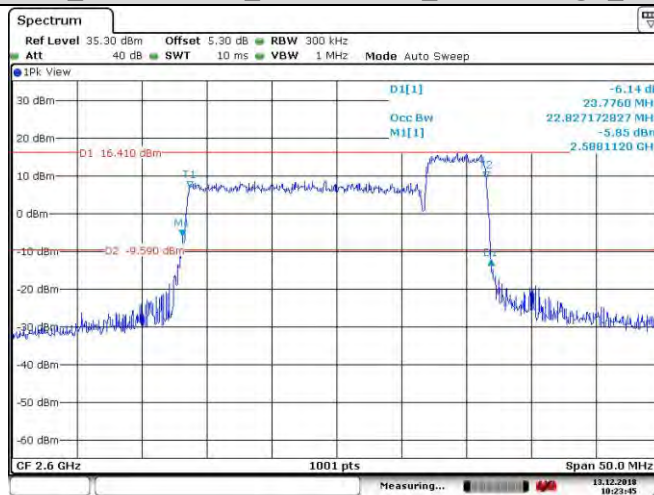
Date: 13.DEC.2018 10:19:47

CA\_41C\_64QAM\_25RB+100RB\_40357+40240\_PCC:25RB@0\_SCC:100RB@0



Date: 13.DEC.2018 10:26:05

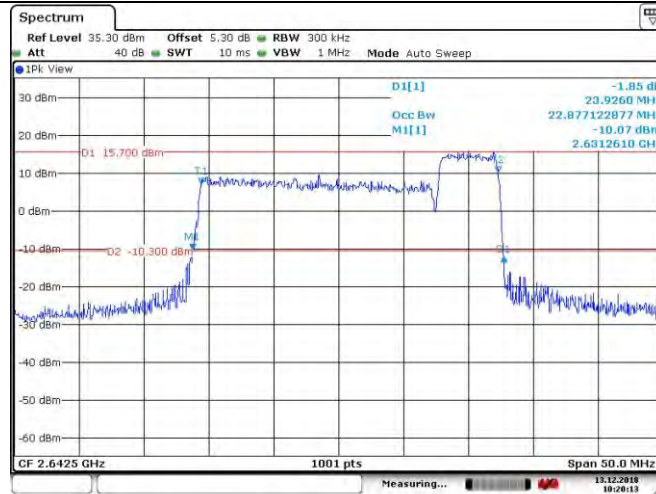
CA\_41C\_64QAM\_25RB+100RB\_40782+40665\_PCC:25RB@0\_SCC:100RB@0



Date: 13.DEC.2018 10:23:46

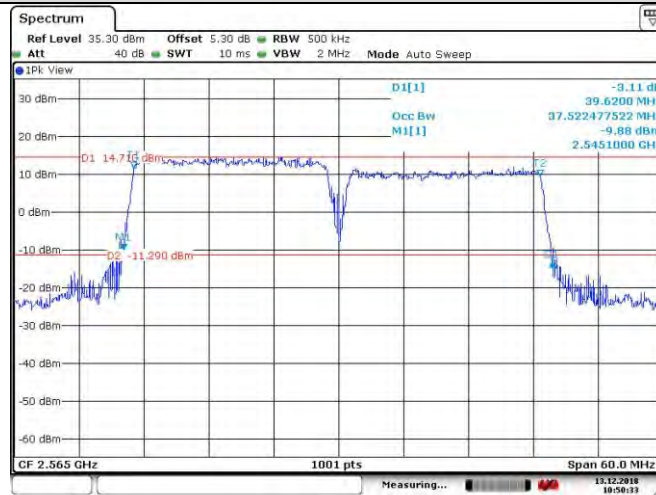
CA\_41C\_64QAM\_25RB+100RB\_41215+41098\_PCC:25RB@0\_SCC:100RB@0

<sup>4</sup>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.



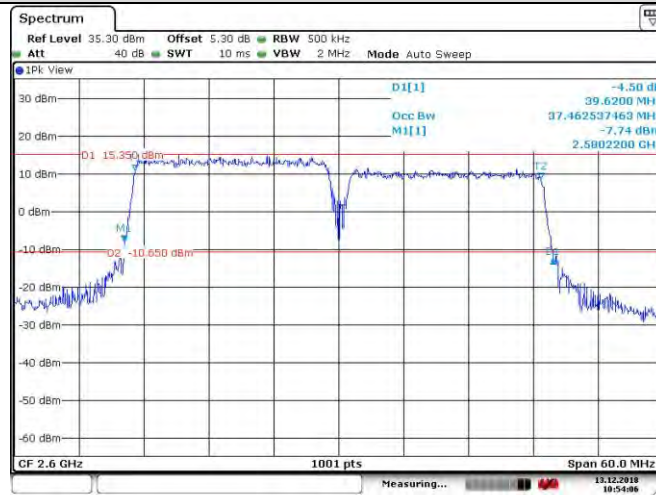
Date: 13.DEC.2018 10:20:14

CA\_41C\_QPSK\_100RB+100RB\_40240+40438\_PCC:100RB@0\_SCC:100RB@0



Date: 13.DEC.2018 10:50:33

CA\_41C\_QPSK\_100RB+100RB\_40591+40789\_PCC:100RB@0\_SCC:100RB@0

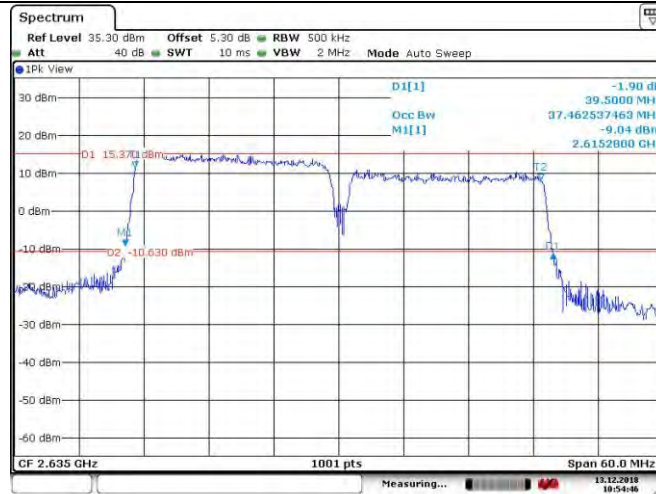


Date: 13.DEC.2018 10:54:06

CA\_41C\_QPSK\_100RB+100RB\_40942+41140\_PCC:100RB@0\_SCC:100RB@0

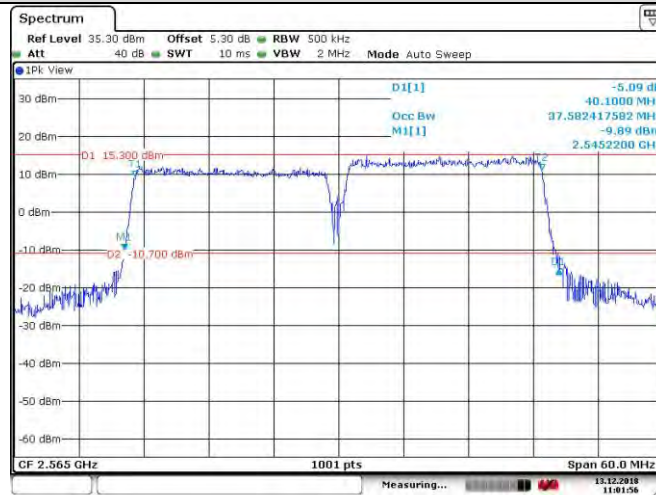
<sup>4</sup>This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <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.





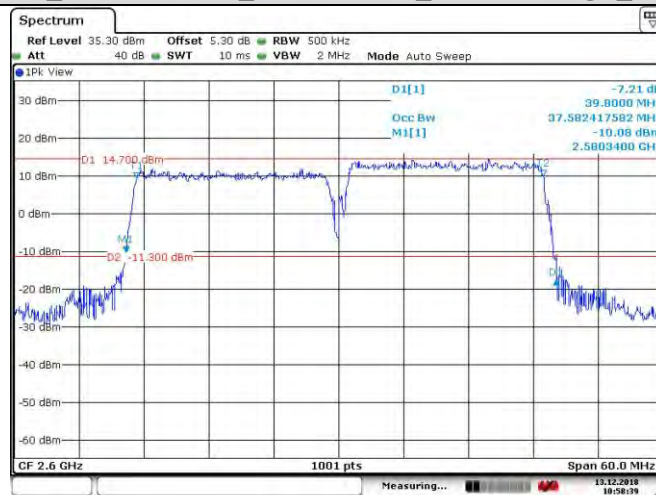
Date: 13.DEC.2018 10:54:47

CA\_41C\_QPSK\_100RB+100RB\_40438+40240\_PCC:100RB@0\_SCC:100RB@0



Date: 13.DEC.2018 11:01:56

CA\_41C\_QPSK\_100RB+100RB\_40789+40591\_PCC:100RB@0\_SCC:100RB@0

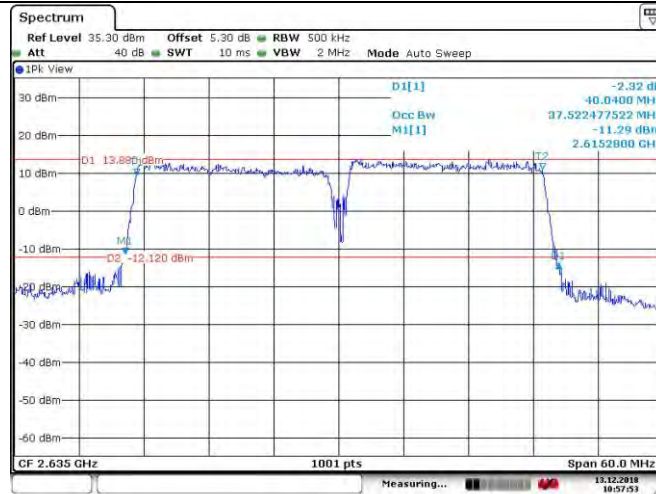


Date: 13.DEC.2018 10:58:39

CA\_41C\_QPSK\_100RB+100RB\_41140+40942\_PCC:100RB@0\_SCC:100RB@0

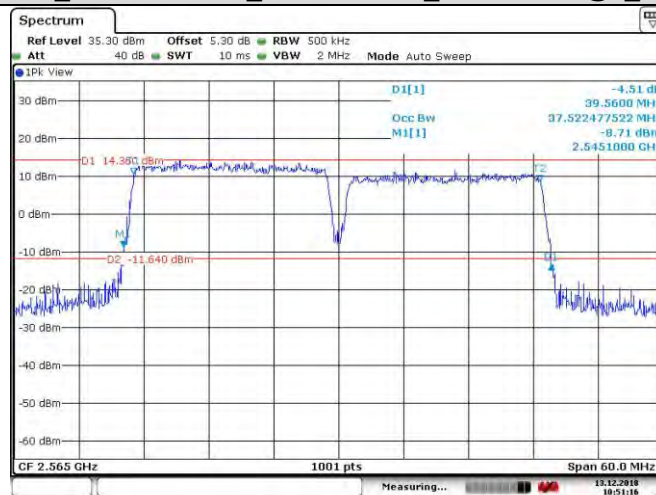
<sup>4</sup>This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <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.





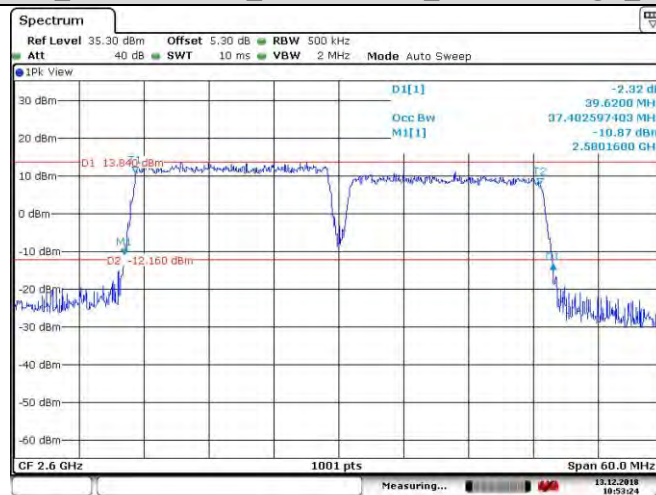
Date: 13.DEC.2018 10:57:53

CA\_41C\_16QAM\_100RB+100RB\_40240+40438\_PCC:100RB@0\_SCC:100RB@0



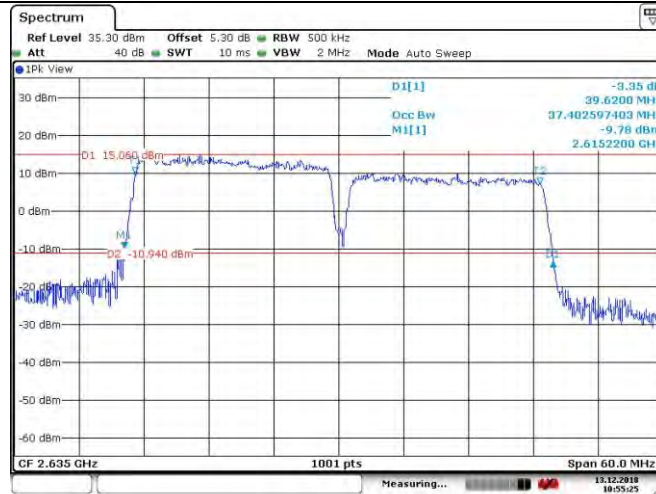
Date: 13.DEC.2018 10:51:17

CA\_41C\_16QAM\_100RB+100RB\_40591+40789\_PCC:100RB@0\_SCC:100RB@0



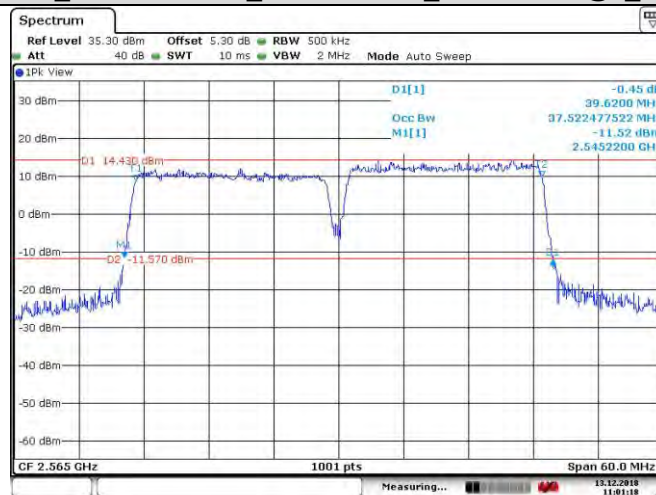
Date: 13.DEC.2018 10:53:25

CA\_41C\_16QAM\_100RB+100RB\_40942+41140\_PCC:100RB@0\_SCC:100RB@0



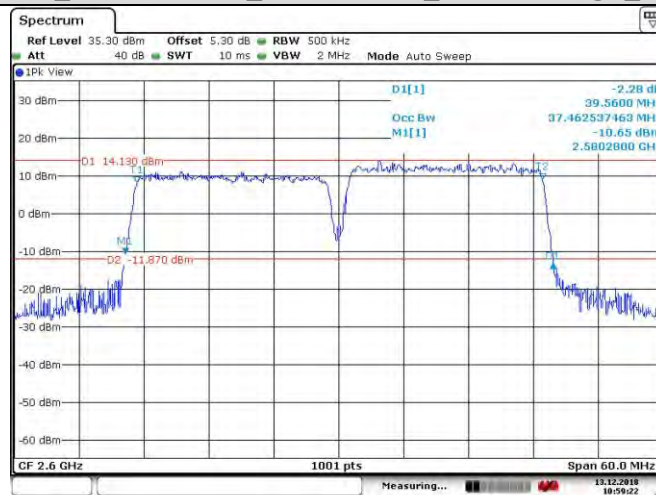
Date: 13.DEC.2018 10:55:25

CA\_41C\_16QAM\_100RB+100RB\_40438+40240\_PCC:100RB@0\_SCC:100RB@0



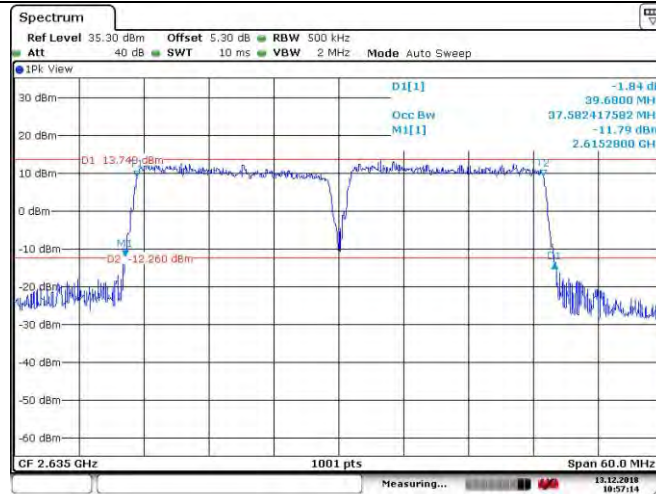
Date: 13.DEC.2018 11:01:18

CA\_41C\_16QAM\_100RB+100RB\_40789+40591\_PCC:100RB@0\_SCC:100RB@0



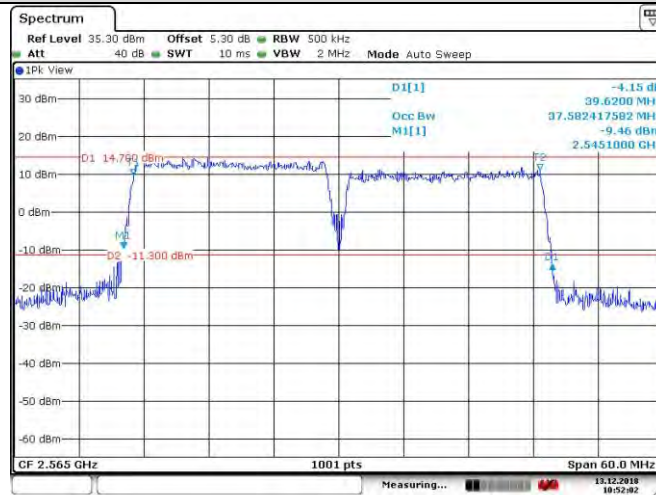
Date: 13.DEC.2018 10:59:23

CA\_41C\_16QAM\_100RB+100RB\_41140+40942\_PCC:100RB@0\_SCC:100RB@0



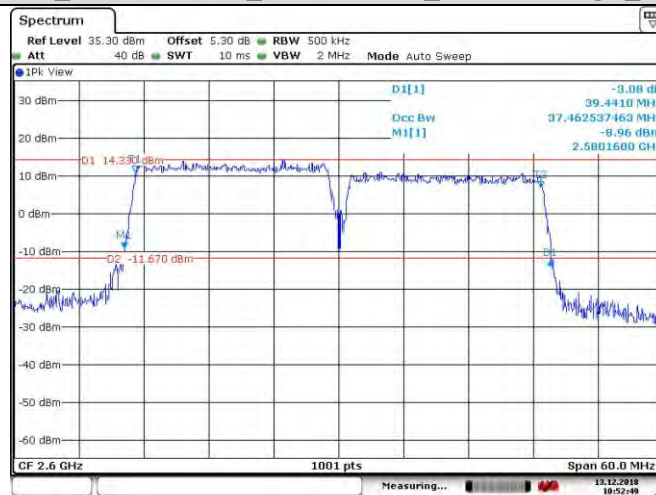
Date: 13.DEC.2018 10:57:15

CA\_41C\_64QAM\_100RB+100RB\_40240+40438\_PCC:100RB@0\_SCC:100RB@0



Date: 13.DEC.2018 10:52:02

CA\_41C\_64QAM\_100RB+100RB\_40591+40789\_PCC:100RB@0\_SCC:100RB@0

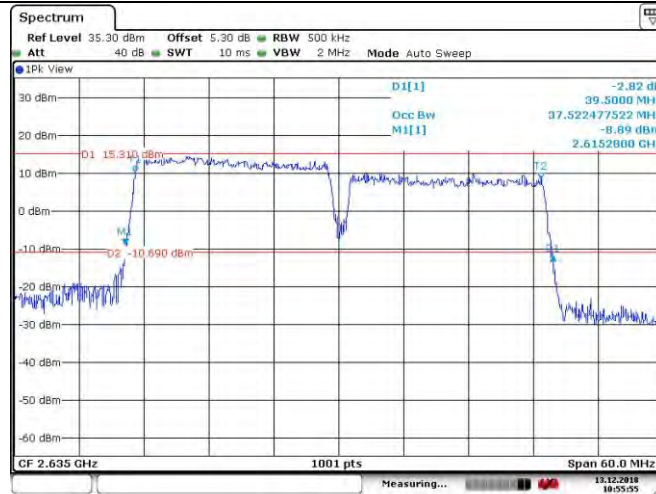


Date: 13.DEC.2018 10:52:49

CA\_41C\_64QAM\_100RB+100RB\_40942+41140\_PCC:100RB@0\_SCC:100RB@0

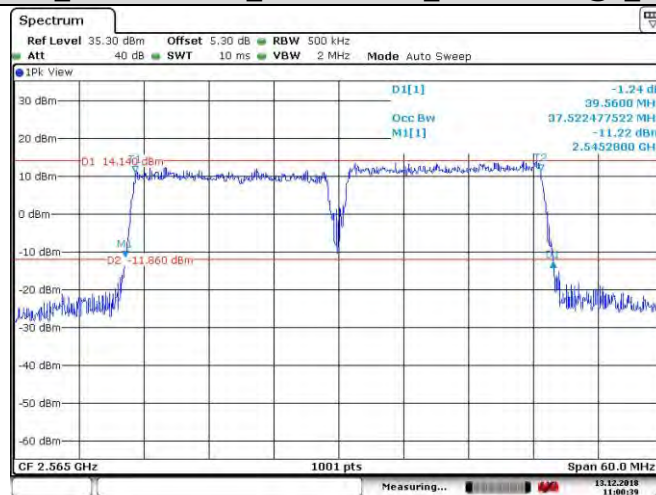
<sup>4</sup>This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <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.





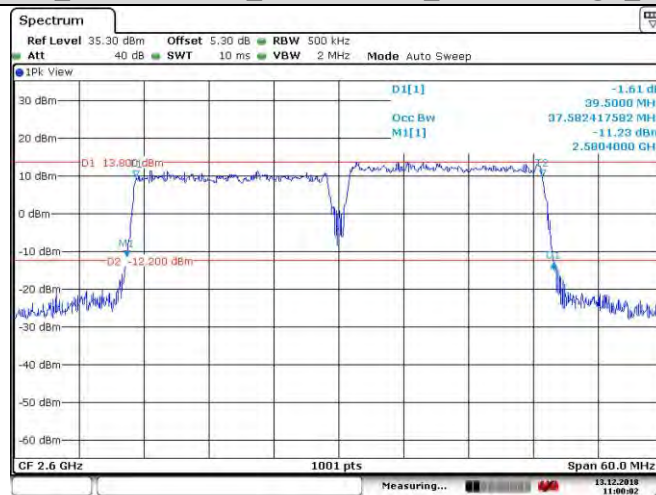
Date: 13.DEC.2018 10:55:55

CA\_41C\_64QAM\_100RB+100RB\_40438+40240\_PCC:100RB@0\_SCC:100RB@0



Date: 13.DEC.2018 11:00:39

CA\_41C\_64QAM\_100RB+100RB\_40789+40591\_PCC:100RB@0\_SCC:100RB@0



Date: 13.DEC.2018 11:00:02

CA\_41C\_64QAM\_100RB+100RB\_41140+40942\_PCC:100RB@0\_SCC:100RB@0



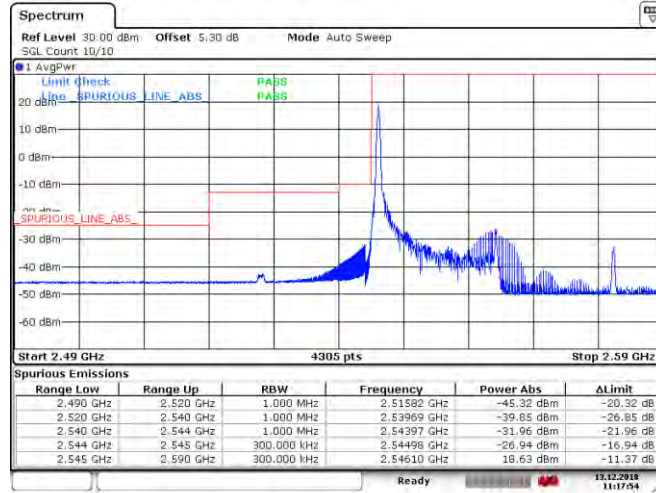


## 5 Band Edges Compliance

### 5.1 For LTE

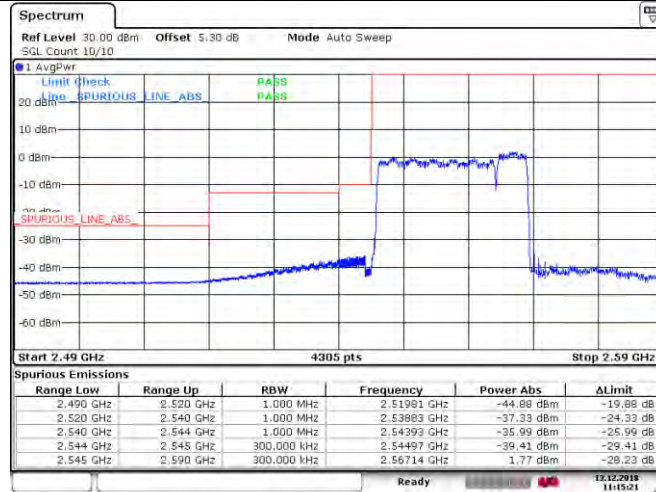
#### 5.1.1 Test Band = LTE Band CA\_41C

CA\_41C\_QPSK\_100RB+25RB\_40240+40357\_PCC:1RB@0\_SCC:0RB@0



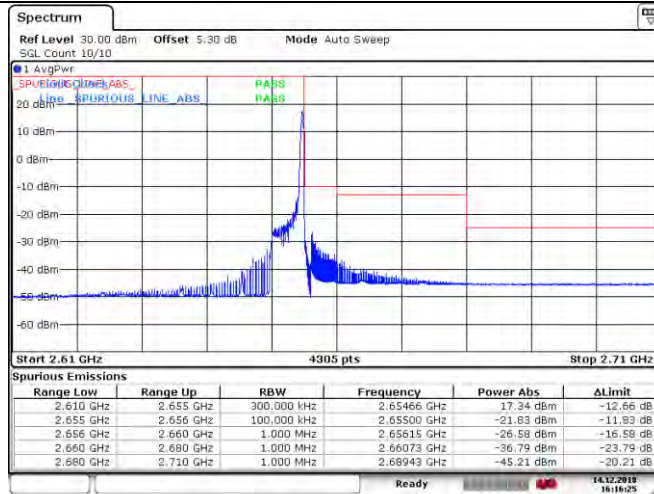
Date: 13.DEC.2018 11:17:54

CA\_41C\_QPSK\_100RB+25RB\_40240+40357\_PCC:100RB@0\_SCC:25RB@0



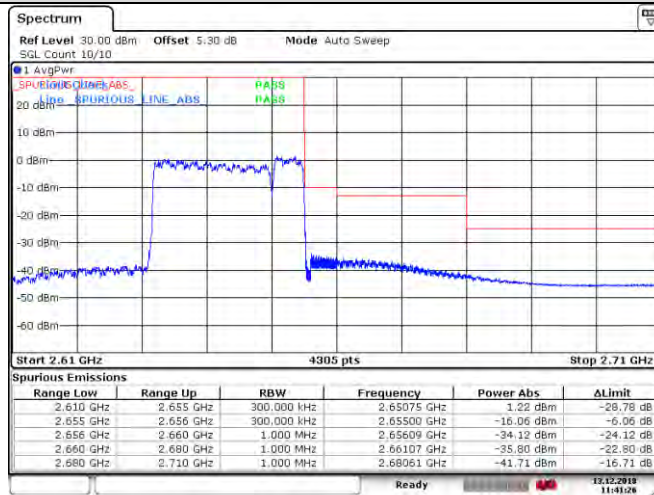
Date: 13.DEC.2018 11:15:21

CA\_41C\_QPSK\_100RB+25RB\_41098+41215\_PCC:0RB@0\_SCC:1RB@24



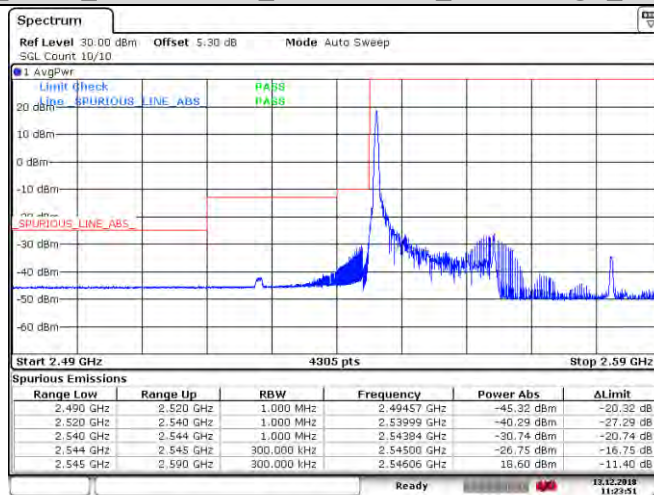
Date: 14 DEC.2018 16:16:25

CA\_41C\_QPSK\_100RB+25RB\_41098+41215\_PCC:100RB@0\_SCC:25RB@0



Date: 13 DEC.2018 11:41:26

CA\_41C\_QPSK\_25RB+100RB\_40357+40240\_PCC:0RB@0\_SCC:1RB@0



Date: 13 DEC.2018 11:23:51

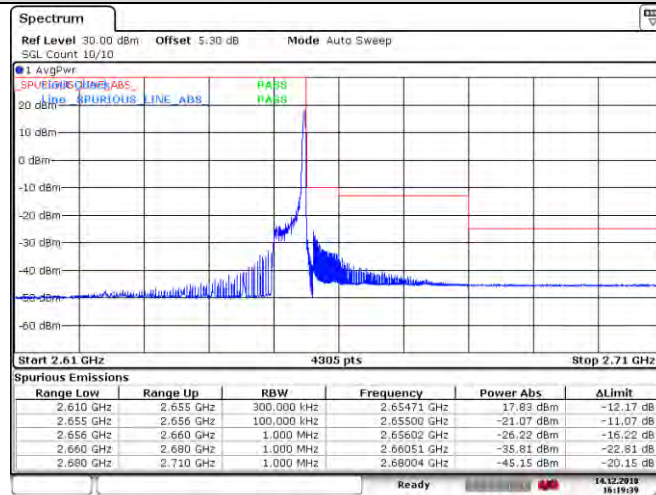
CA\_41C\_QPSK\_25RB+100RB\_40357+40240\_PCC:25RB@0\_SCC:100RB@0

"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.



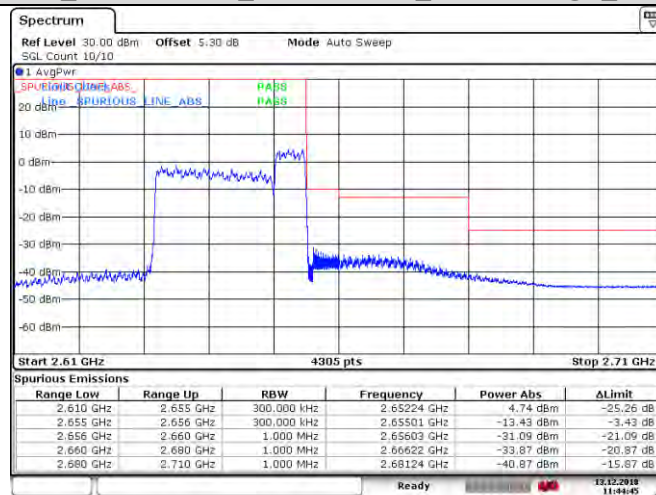
Date: 13 DEC.2018 11:21:36

CA\_41C\_QPSK\_25RB+100RB\_41215+41098\_PCC:1RB@24\_SCC:0RB@0



Date: 14 DEC.2018 16:19:39

CA\_41C\_QPSK\_25RB+100RB\_41215+41098\_PCC:25RB@0\_SCC:100RB@0

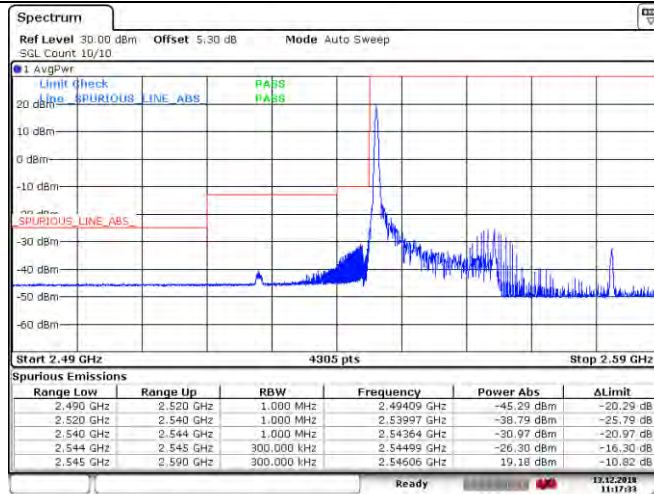


Date: 13 DEC.2018 11:44:45

CA\_41C\_16QAM\_100RB+25RB\_40240+40357\_PCC:1RB@0\_SCC:0RB@0

"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.





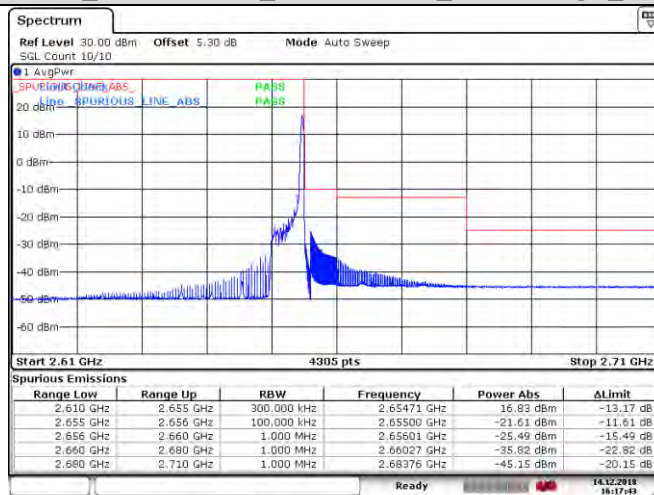
Date: 13.DEC.2018 11:17:33

CA\_41C\_16QAM\_100RB+25RB\_40240+40357\_PCC:100RB@0\_SCC:25RB@0



Date: 13.DEC.2018 11:16:13

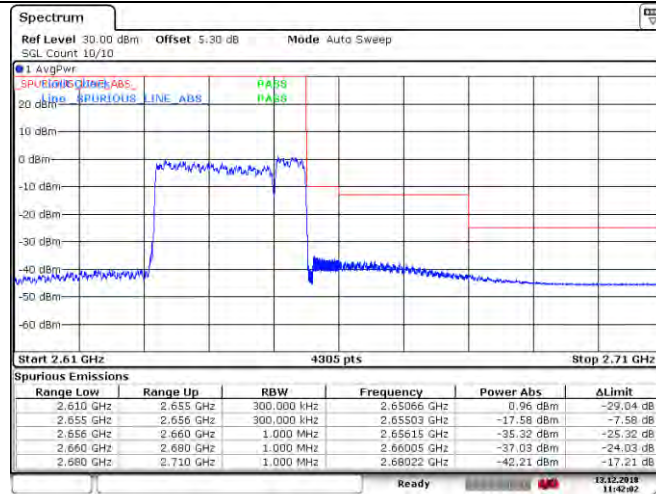
CA\_41C\_16QAM\_100RB+25RB\_41098+41215\_PCC:0RB@0\_SCC:1RB@24



Date: 14.DEC.2018 16:17:43

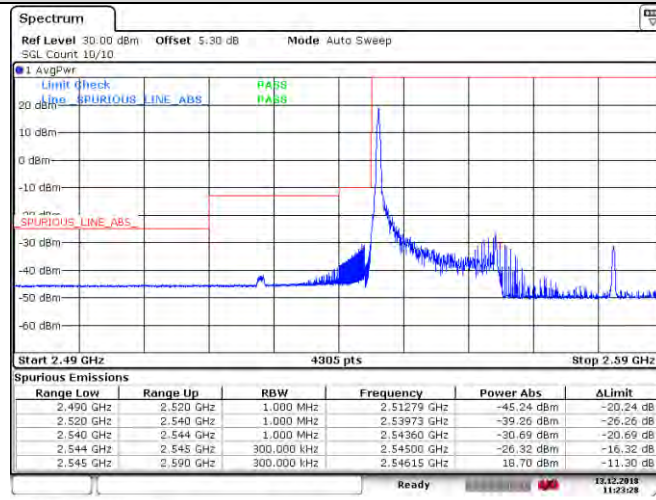
CA\_41C\_16QAM\_100RB+25RB\_41098+41215\_PCC:100RB@0\_SCC:25RB@0

<sup>4</sup>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.



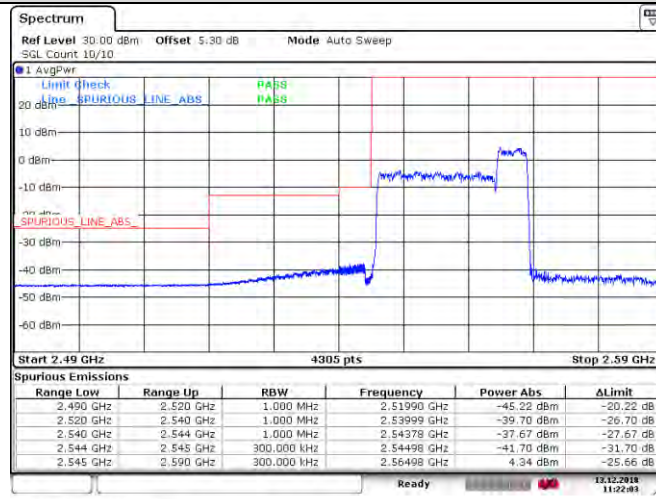
Date: 13.DEC.2018 11:42:02

CA\_41C\_16QAM\_25RB+100RB\_40357+40240\_PCC:0RB@0\_SCC:1RB@0



Date: 13.DEC.2018 11:23:29

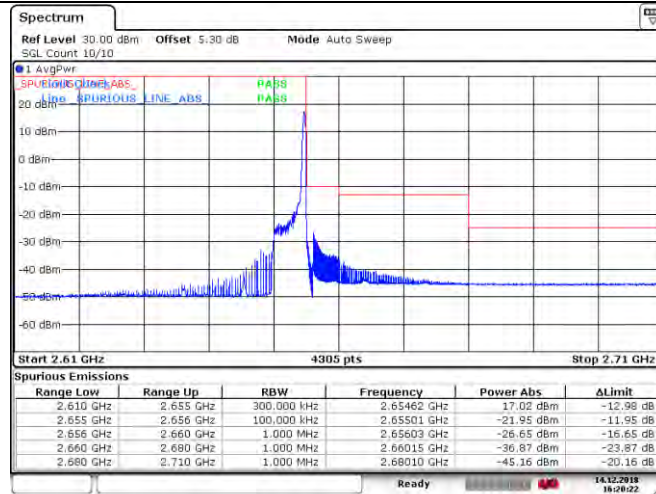
CA\_41C\_16QAM\_25RB+100RB\_40357+40240\_PCC:25RB@0\_SCC:100RB@0



Date: 13.DEC.2018 11:22:04

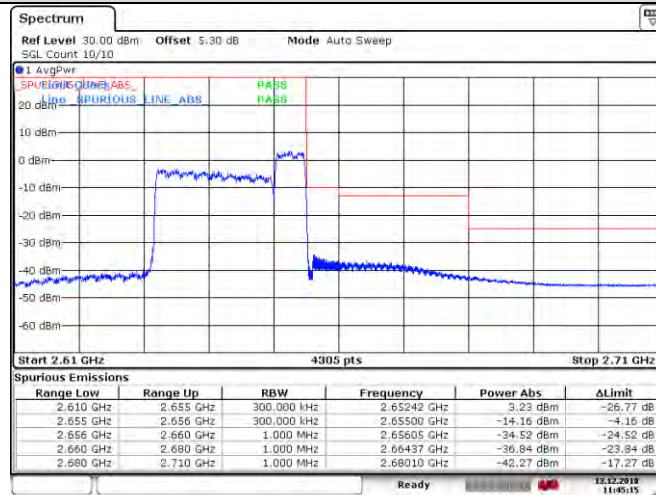
CA\_41C\_16QAM\_25RB+100RB\_41215+41098\_PCC:1RB@24\_SCC:0RB@0

"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.



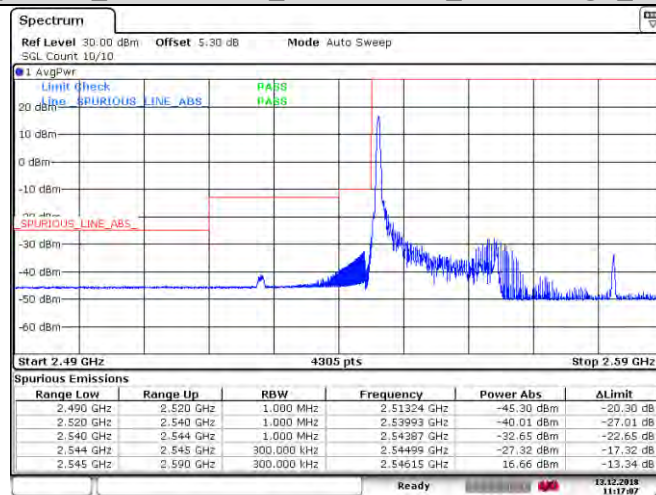
Date: 14 DEC.2018 16:20:22

CA\_41C\_16QAM\_25RB+100RB\_41215+41098\_PCC:25RB@0\_SCC:100RB@0



Date: 13 DEC.2018 11:45:16

CA\_41C\_64QAM\_100RB+25RB\_40240+40357\_PCC:1RB@0\_SCC:0RB@0

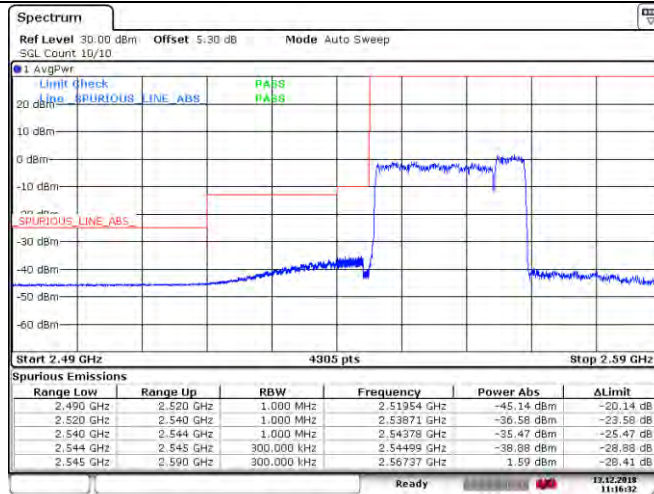


Date: 13 DEC.2018 11:17:06

CA\_41C\_64QAM\_100RB+25RB\_40240+40357\_PCC:100RB@0\_SCC:25RB@0

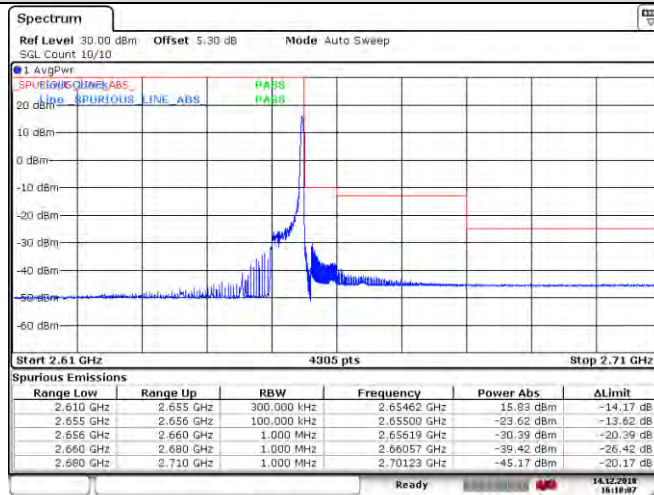
"This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. 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.





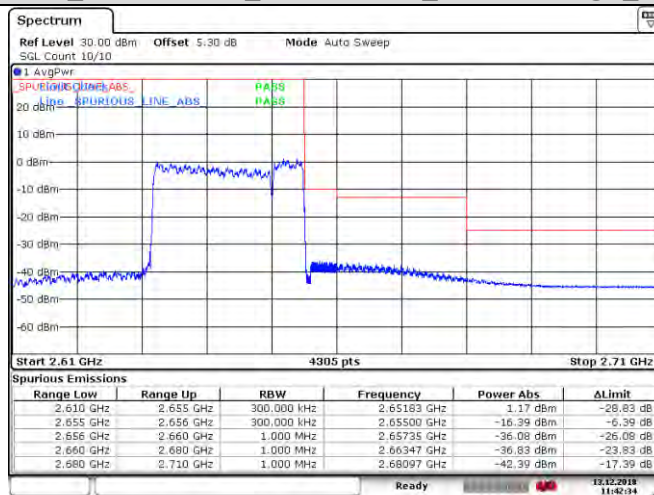
Date: 13 DEC. 2018 11:16:32

CA\_41C\_64QAM\_100RB+25RB\_41098+41215\_PCC:0RB@0\_SCC:1RB@24



Date: 14 DEC. 2018 16:18:07

CA\_41C\_64QAM\_100RB+25RB\_41098+41215\_PCC:100RB@0\_SCC:25RB@0

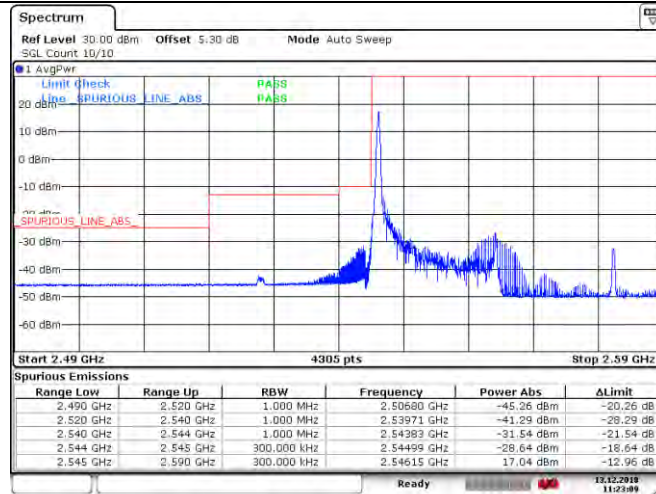


Date: 13 DEC. 2018 11:42:34

CA\_41C\_64QAM\_25RB+100RB\_40357+40240\_PCC:0RB@0\_SCC:1RB@0

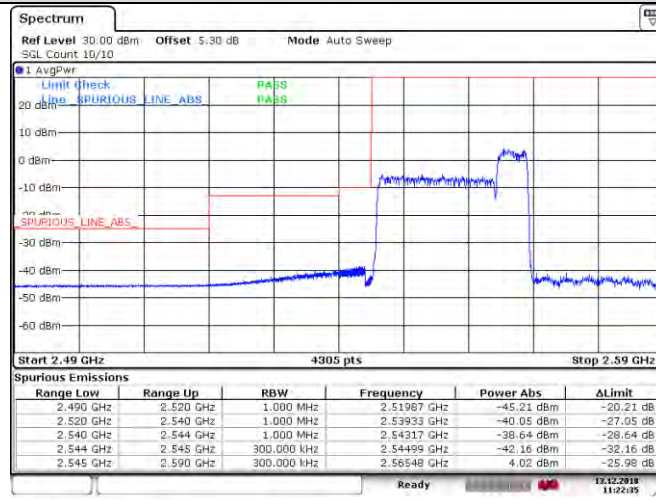
<sup>4</sup>This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <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.





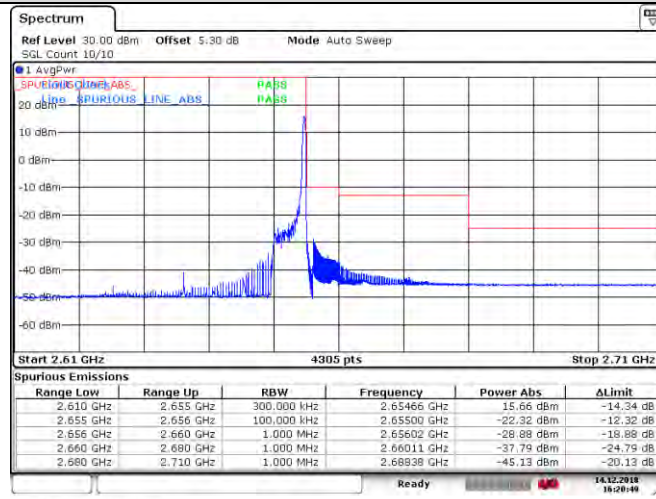
Date: 13.DEC.2018 11:23:10

**CA\_41C\_64QAM\_25RB+100RB\_40357+40240\_PCC:25RB@0\_SCC:100RB@0**



Date: 13.DEC.2018 11:22:35

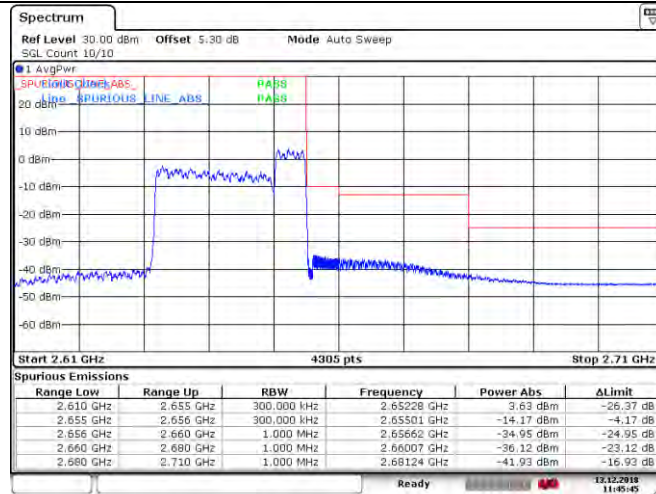
**CA\_41C\_64QAM\_25RB+100RB\_41215+41098\_PCC:1RB@24\_SCC:0RB@0**



Date: 14.DEC.2018 16:20:49

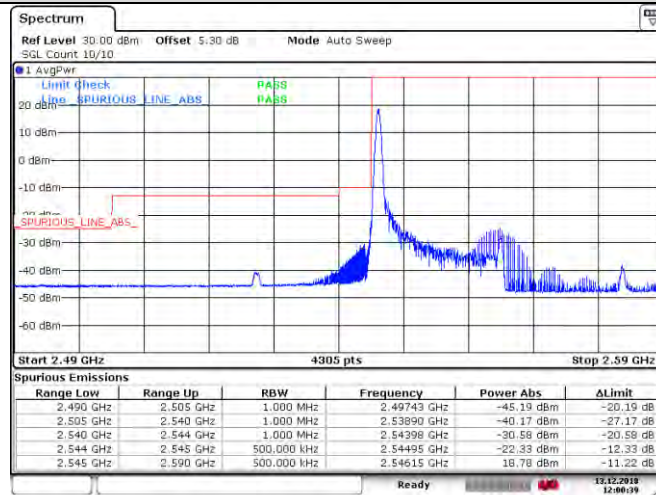
**CA\_41C\_64QAM\_25RB+100RB\_41215+41098\_PCC:25RB@0\_SCC:100RB@0**

<sup>4</sup>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.



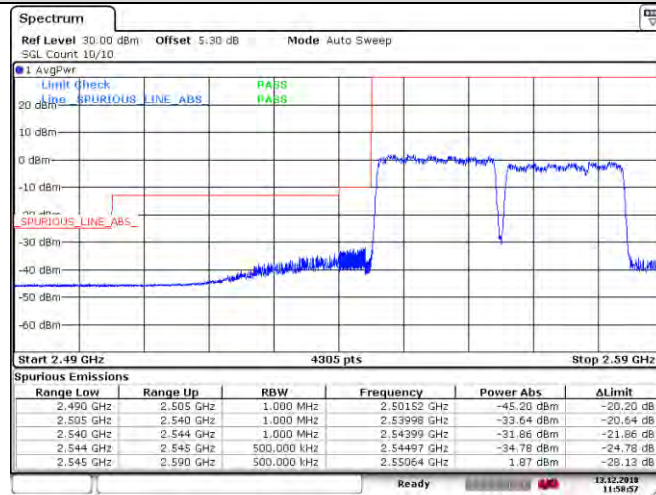
Date: 13 DEC. 2018 11:45:46

CA\_41C\_QPSK\_100RB+100RB\_40240+40438\_PCC:1RB@0\_SCC:0RB@0



Date: 13 DEC. 2018 12:00:40

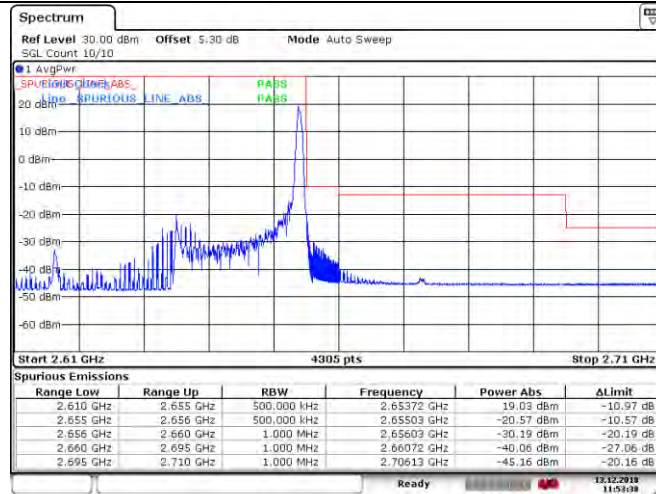
CA\_41C\_QPSK\_100RB+100RB\_40240+40438\_PCC:100RB@0\_SCC:100RB@0



Date: 13 DEC. 2018 11:58:57

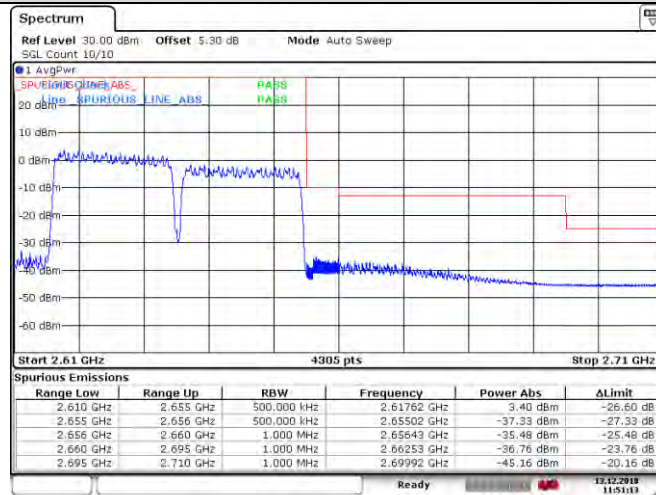
CA\_41C\_QPSK\_100RB+100RB\_40942+41140\_PCC:0RB@0\_SCC:1RB@99

"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.



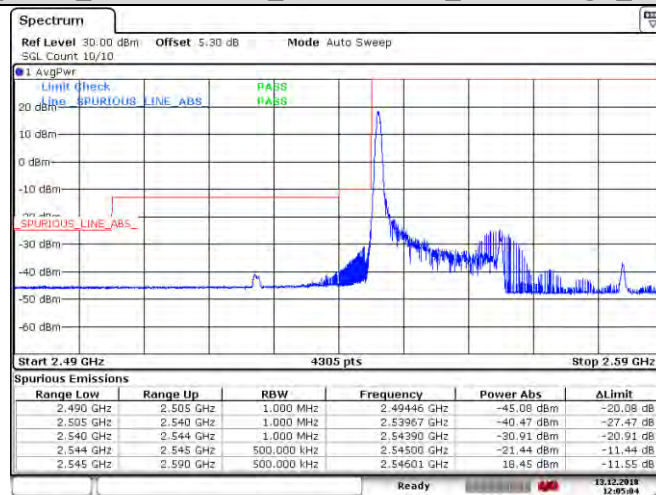
Date: 13.DEC.2018 11:53:38

CA\_41C\_QPSK\_100RB+100RB\_40942+41140\_PCC:100RB@0\_SCC:100RB@0



Date: 13.DEC.2018 11:51:13

CA\_41C\_QPSK\_100RB+100RB\_40438+40240\_PCC:0RB@0\_SCC:1RB@0

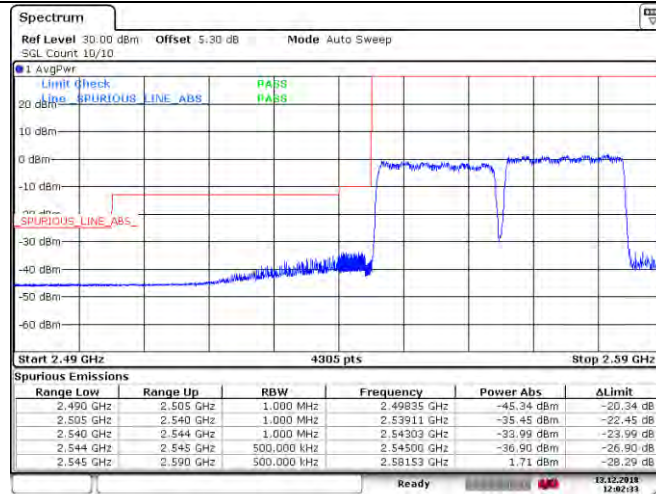


Date: 13.DEC.2018 12:05:04

CA\_41C\_QPSK\_100RB+100RB\_40438+40240\_PCC:100RB@0\_SCC:100RB@0

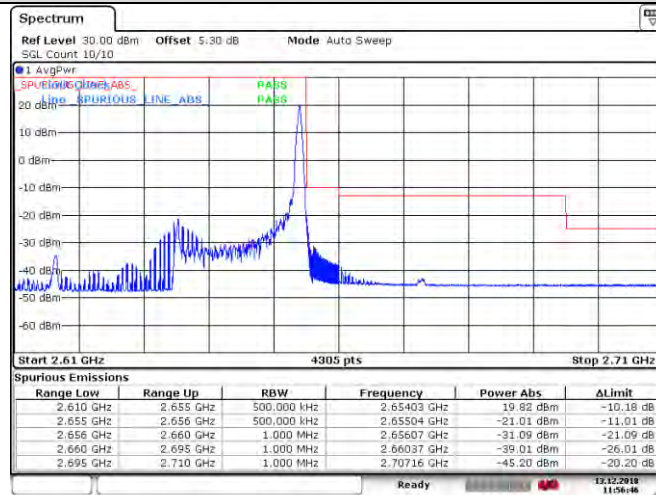
<sup>4</sup>This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <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.





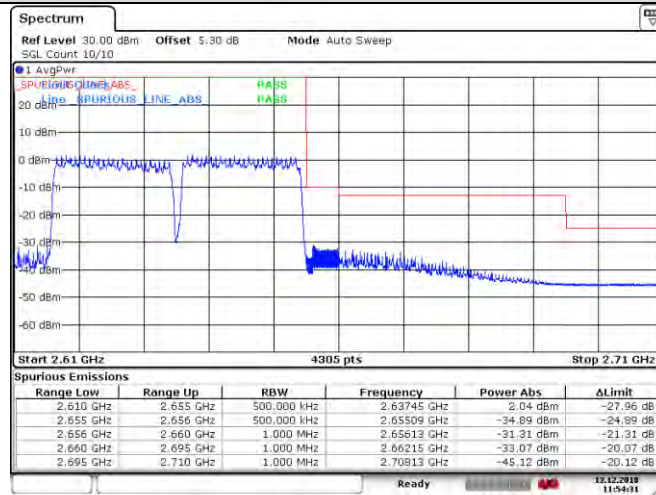
Date: 13.DEC.2018 12:02:33

CA\_41C\_QPSK\_100RB+100RB\_41140+40942\_PCC:1RB@99\_SCC:0RB@0



Date: 13.DEC.2018 11:56:47

CA\_41C\_QPSK\_100RB+100RB\_41140+40942\_PCC:100RB@0\_SCC:100RB@0

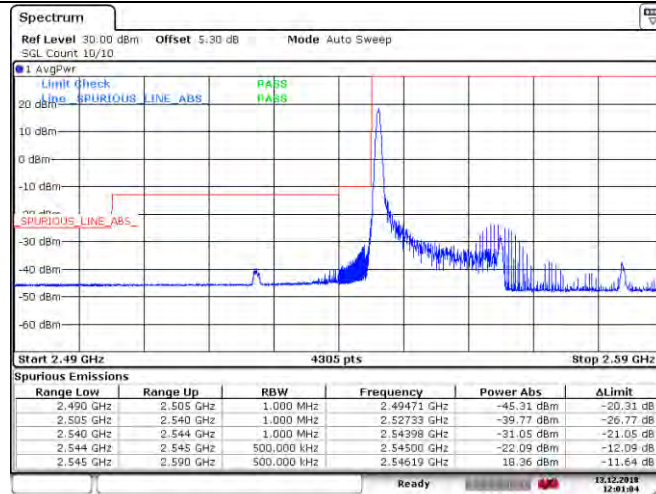


Date: 13.DEC.2018 11:54:32

CA\_41C\_16QAM\_100RB+100RB\_40240+40438\_PCC:1RB@0\_SCC:0RB@0

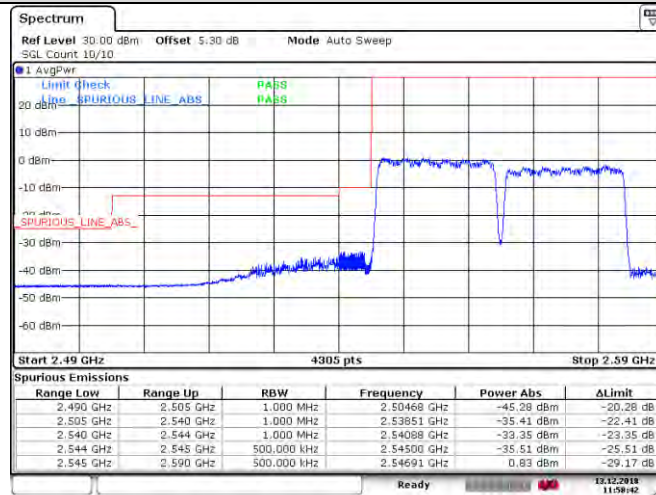
"This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. 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.





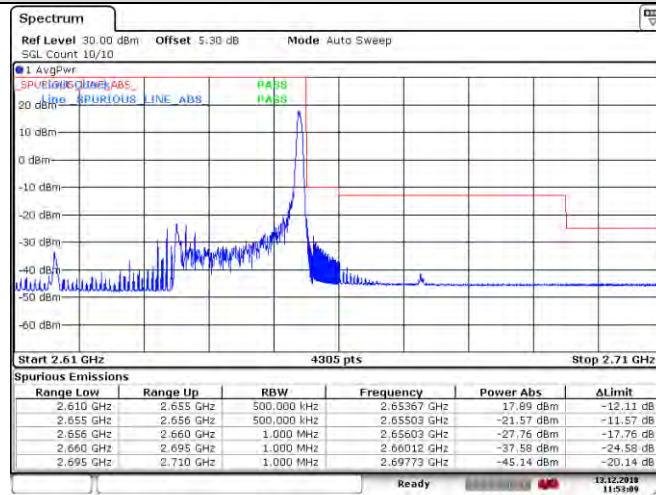
Date: 13.DEC.2018 12:01:04

CA\_41C\_16QAM\_100RB+100RB\_40240+40438\_PCC:100RB@0\_SCC:100RB@0



Date: 13.DEC.2018 11:58:42

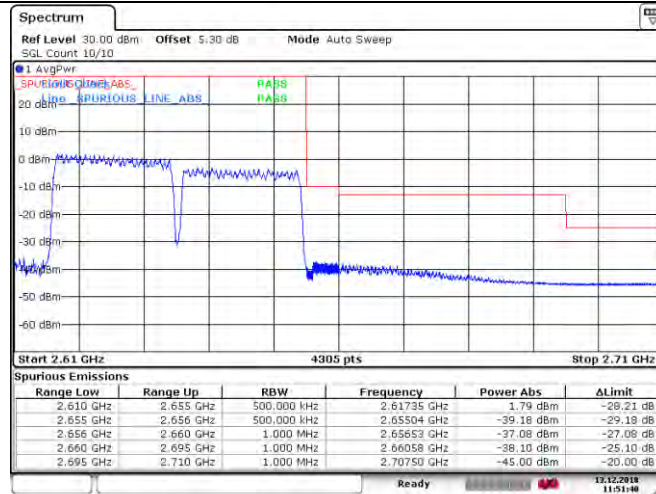
CA\_41C\_16QAM\_100RB+100RB\_40942+41140\_PCC:0RB@0\_SCC:1RB@99



Date: 13.DEC.2018 11:53:09

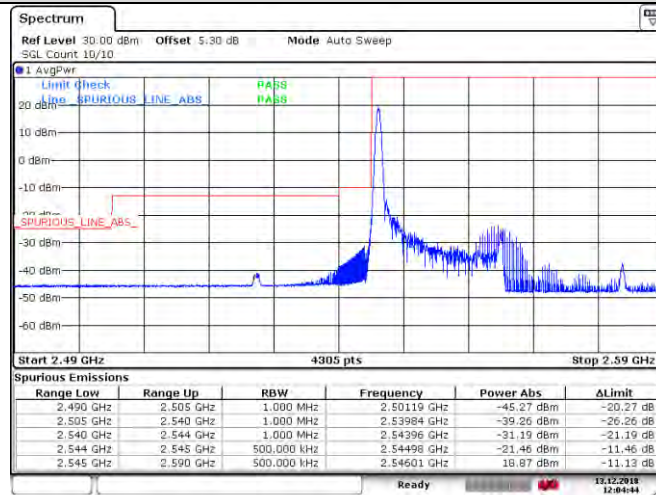
CA\_41C\_16QAM\_100RB+100RB\_40942+41140\_PCC:100RB@0\_SCC:100RB@0

<sup>4</sup>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 herein 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.



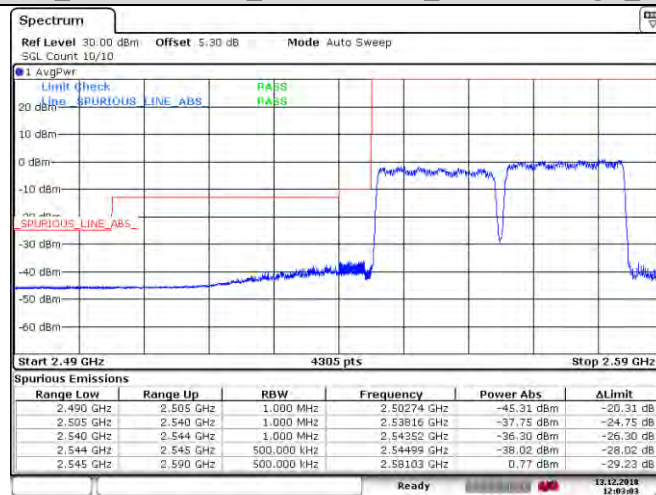
Date: 13.DEC.2018 11:51:40

CA\_41C\_16QAM\_100RB+100RB\_40438+40240\_PCC:0RB@0\_SCC:1RB@0



Date: 13.DEC.2018 12:04:44

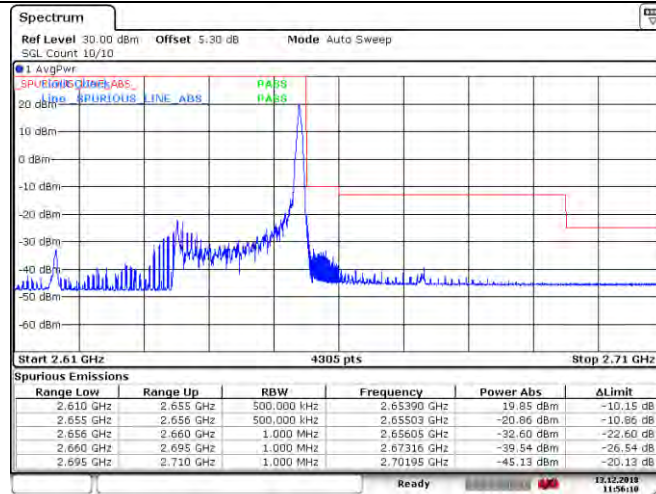
CA\_41C\_16QAM\_100RB+100RB\_40438+40240\_PCC:100RB@0\_SCC:100RB@0



Date: 13.DEC.2018 12:03:04

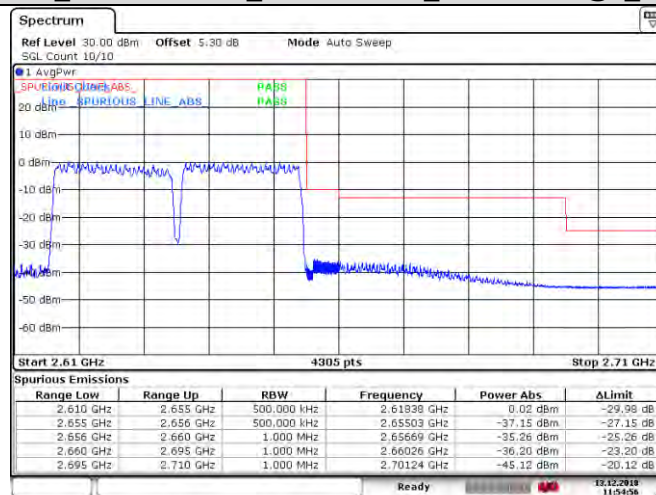
CA\_41C\_16QAM\_100RB+100RB\_41140+40942\_PCC:1RB@99\_SCC:0RB@0

<sup>4</sup>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 herein 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.



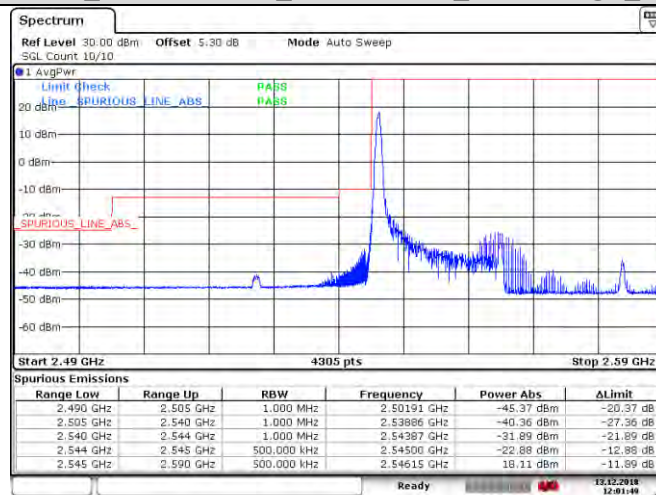
Date: 13.DEC.2018 11:56:10

CA\_41C\_16QAM\_100RB+100RB\_41140+40942\_PCC:100RB@0\_SCC:100RB@0



Date: 13.DEC.2018 11:54:56

CA\_41C\_64QAM\_100RB+100RB\_40240+40438\_PCC:1RB@0\_SCC:0RB@0

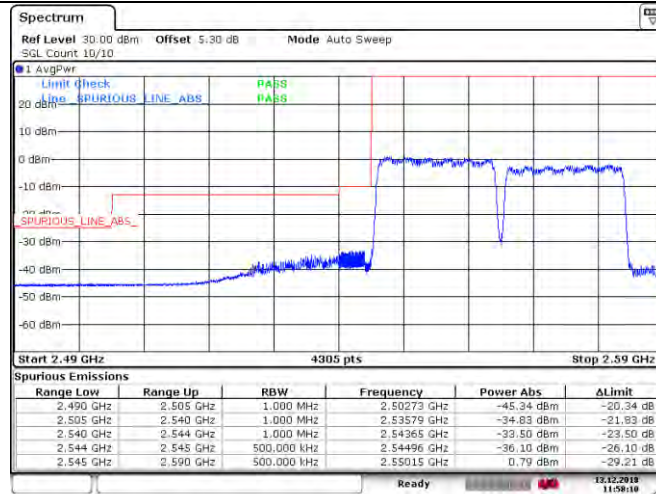


Date: 13.DEC.2018 12:01:50

CA\_41C\_64QAM\_100RB+100RB\_40240+40438\_PCC:100RB@0\_SCC:100RB@0

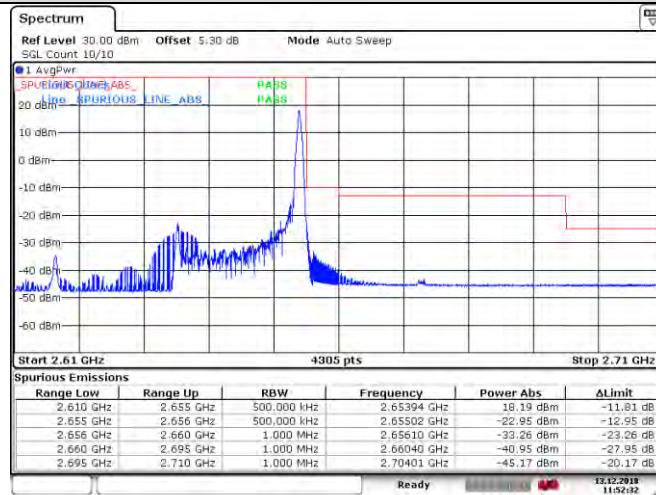
<sup>4</sup>This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <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.





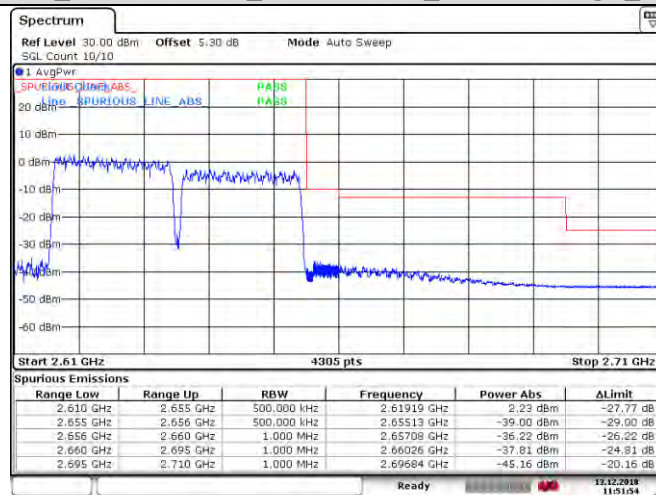
Date: 13.DEC.2018 11:58:11

CA\_41C\_64QAM\_100RB+100RB\_40942+41140\_PCC:0RB@0\_SCC:1RB@99



Date: 13.DEC.2018 11:52:32

CA\_41C\_64QAM\_100RB+100RB\_40942+41140\_PCC:100RB@0\_SCC:100RB@0

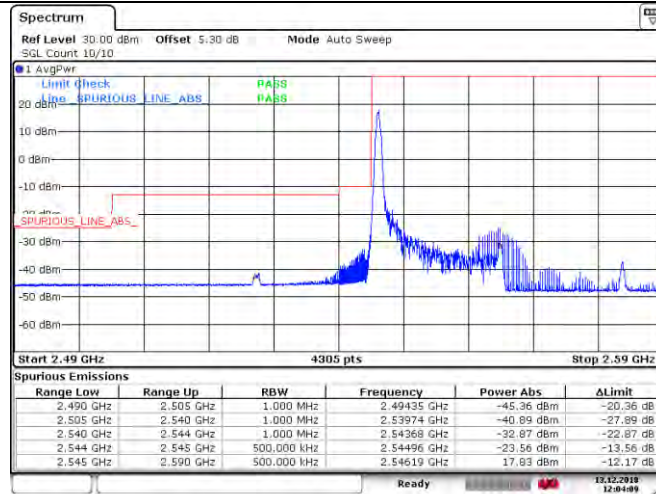


Date: 13.DEC.2018 11:51:54

CA\_41C\_64QAM\_100RB+100RB\_40438+40240\_PCC:0RB@0\_SCC:1RB@0

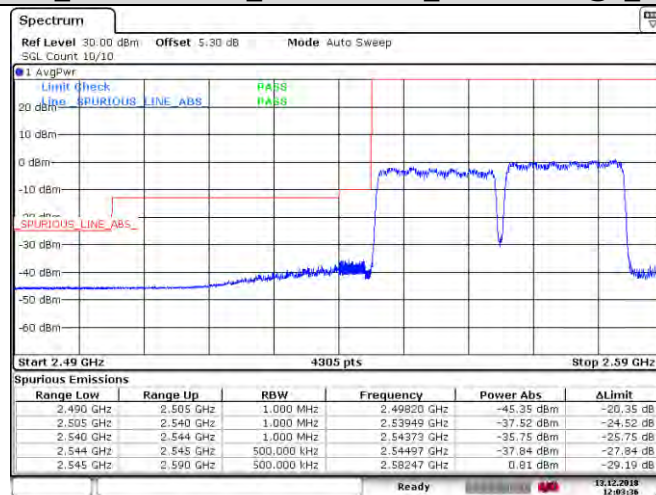
"This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. 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.





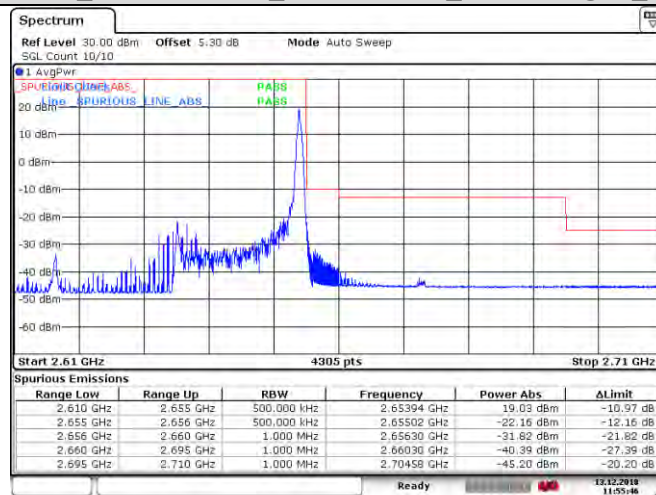
Date: 13.DEC.2018 12:04:09

CA\_41C\_64QAM\_100RB+100RB\_40438+40240\_PCC:100RB@0\_SCC:100RB@0



Date: 13.DEC.2018 12:03:37

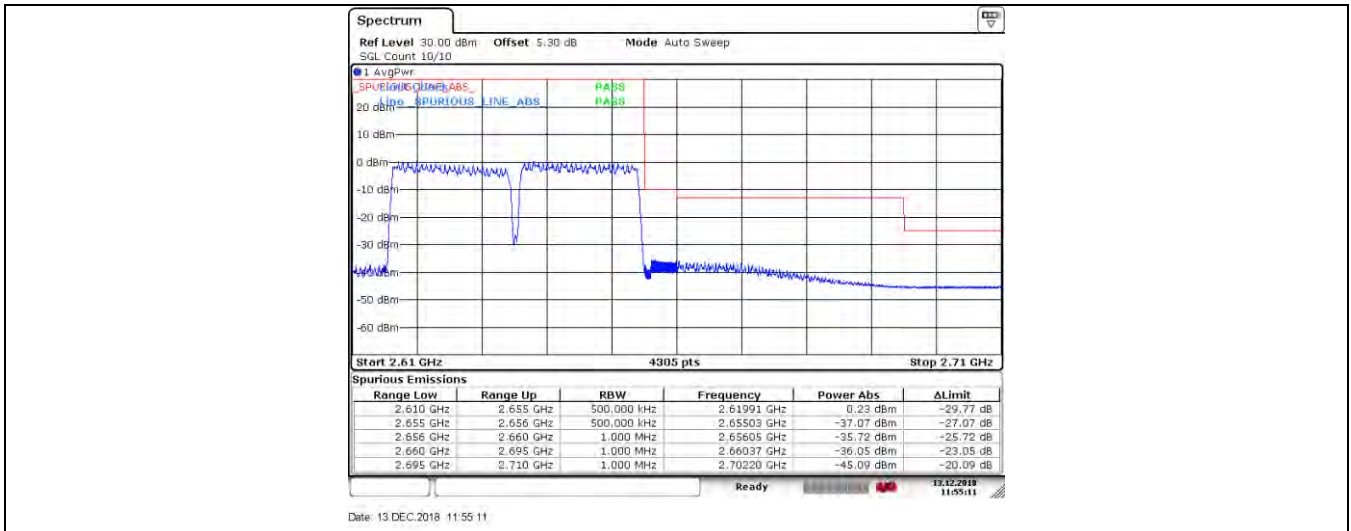
CA\_41C\_64QAM\_100RB+100RB\_41140+40942\_PCC:1RB@99\_SCC:0RB@0



Date: 13.DEC.2018 11:55:47

CA\_41C\_64QAM\_100RB+100RB\_41140+40942\_PCC:100RB@0\_SCC:100RB@0

<sup>4</sup>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 herein 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.



<sup>4</sup>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 herein 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.

## 6 Spurious Emission at Antenna Terminal

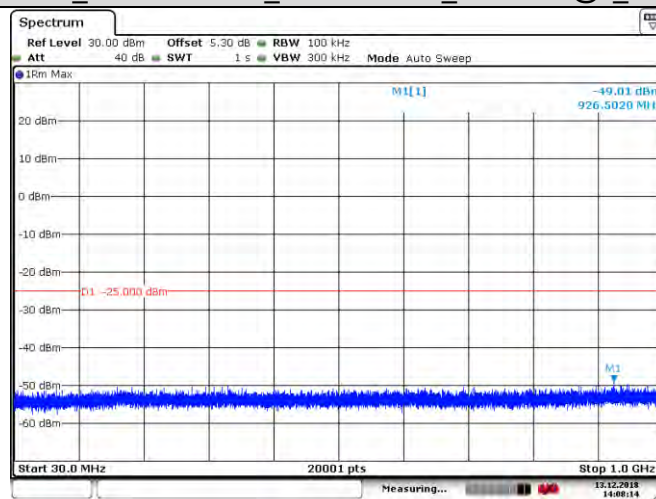
NOTE: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of  $< RBW/2$  so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = 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

Part I - Test Plots

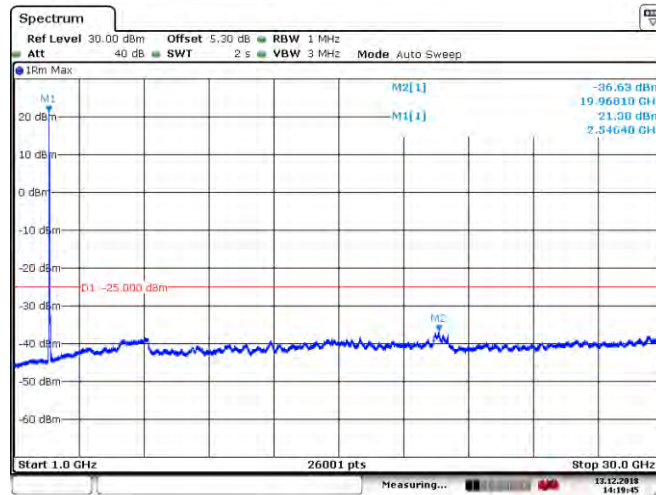
### 6.1 For LTE

#### 6.1.1 Test Band = LTE Band CA\_41C

CA\_41C\_QPSK\_100RB+100RB\_40240+40438\_PCC:1RB@0\_SCC:0RB@0

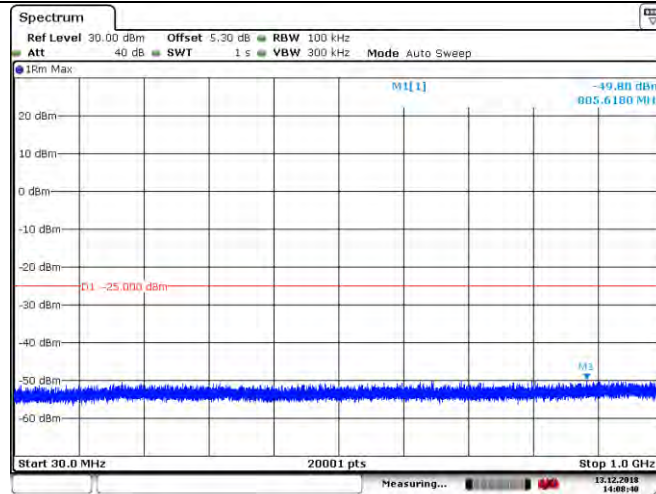


Date: 13.DEC.2018 14:08:15

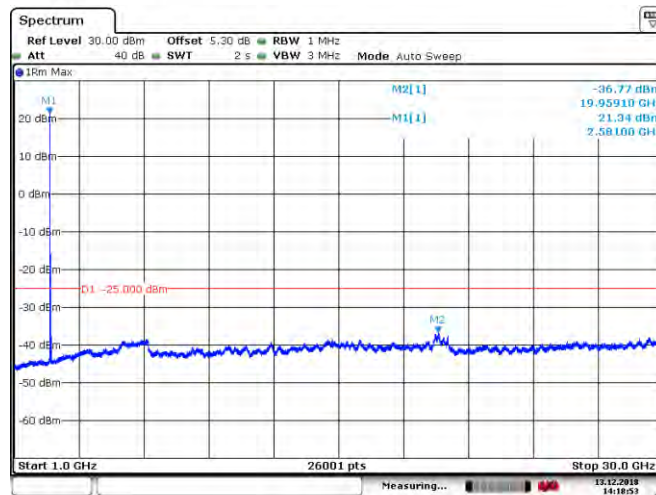


Date: 13.DEC.2018 14:19:45

CA\_41C\_QPSK\_100RB+100RB\_40591+40789\_PCC:1RB@0\_SCC:0RB@0

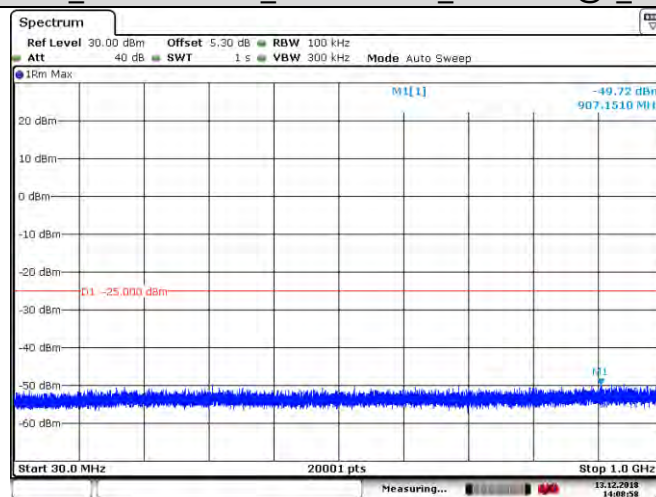


Date: 13.DEC.2018 14:08:41



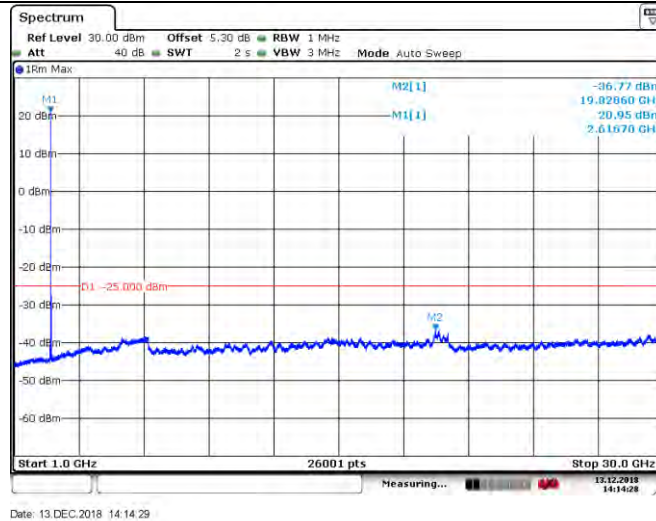
Date: 13.DEC.2018 14:18:53

CA\_41C\_QPSK\_100RB+100RB\_40942+41140\_PCC: 1RB@0\_SCC: 0RB@0



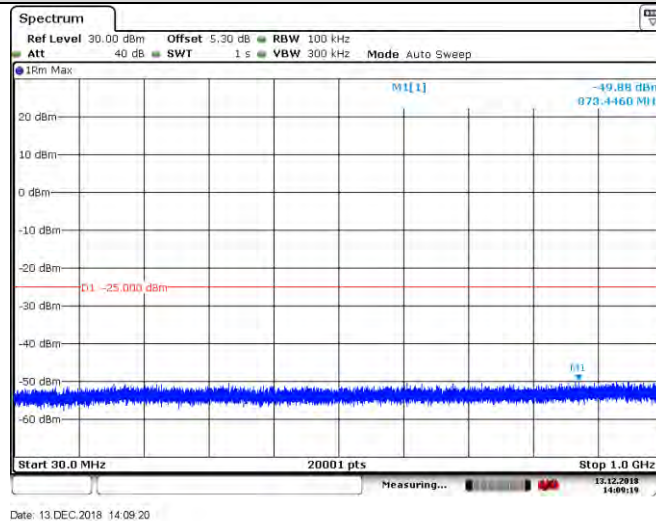
Date: 13.DEC.2018 14:08:58



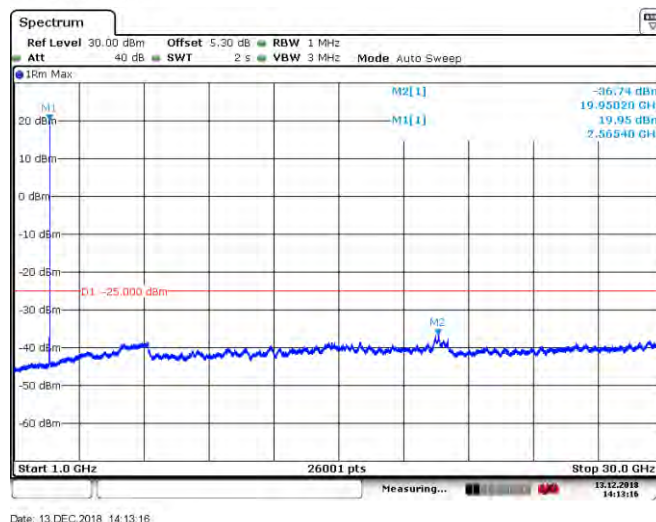


Date: 13.DEC.2018 14:14:29

CA\_41C\_QPSK\_100RB+100RB\_40438+40240\_PCC: 1RB@0\_SCC: 0RB@0



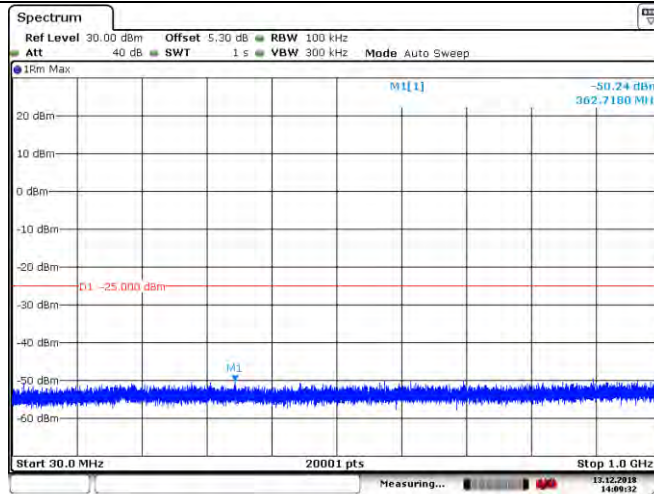
Date: 13.DEC.2018 14:09:20



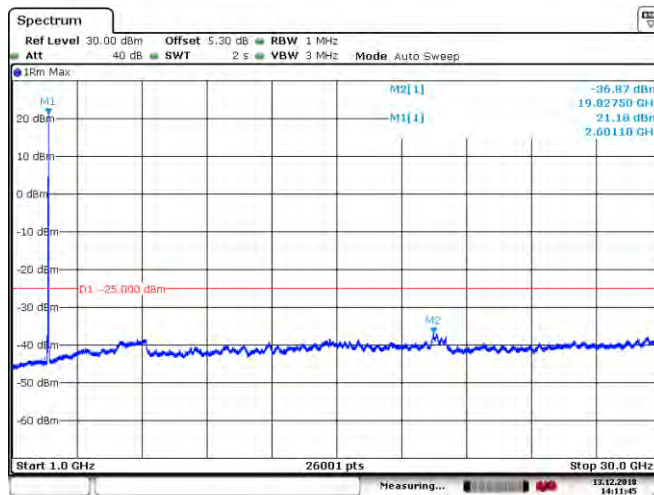
Date: 13.DEC.2018 14:13:16

CA\_41C\_QPSK\_100RB+100RB\_40789+40591\_PCC: 1RB@0\_SCC: 0RB@0

"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.

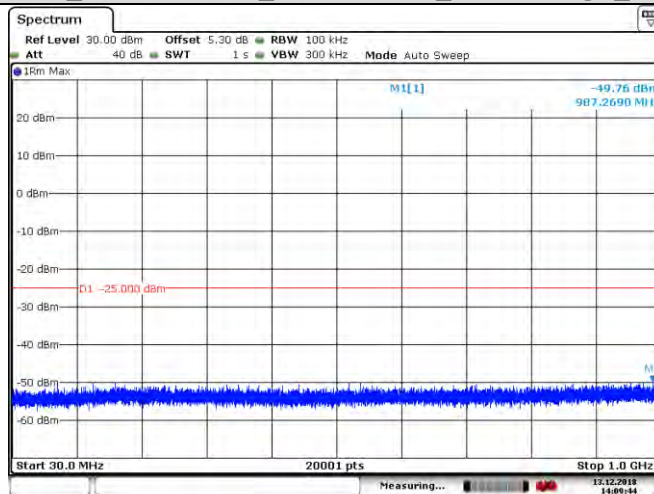


Date: 13.DEC.2018 14:09:32

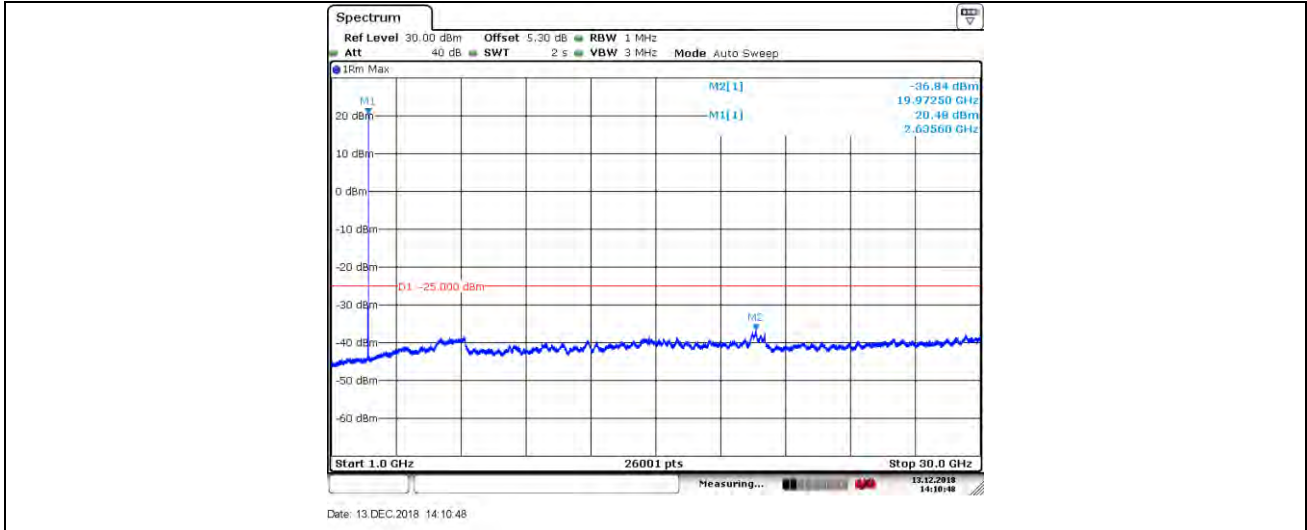


Date: 13.DEC.2018 14:11:45

CA\_41C\_QPSK\_100RB+100RB\_41140+40942\_PCC: 1RB@0\_SCC: 0RB@0



Date: 13.DEC.2018 14:09:45





## 7 Field Strength of Spurious Radiation

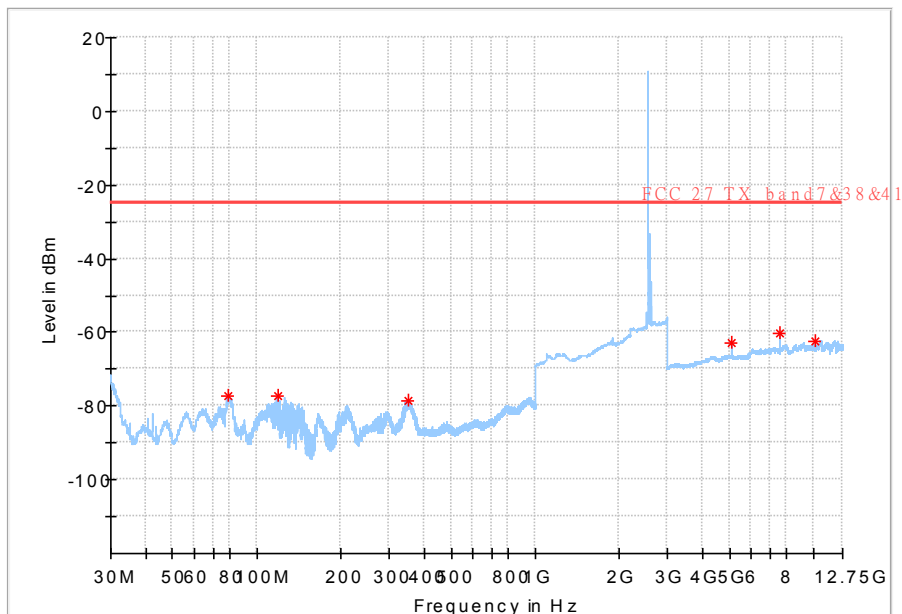
### 7.1 For LTE

#### 7.1.1 Test Band = LTE Band CA\_41C\_Main Antenna

##### 7.1.1.1 Test Mode =LTE/QPSK 100RB+100RB

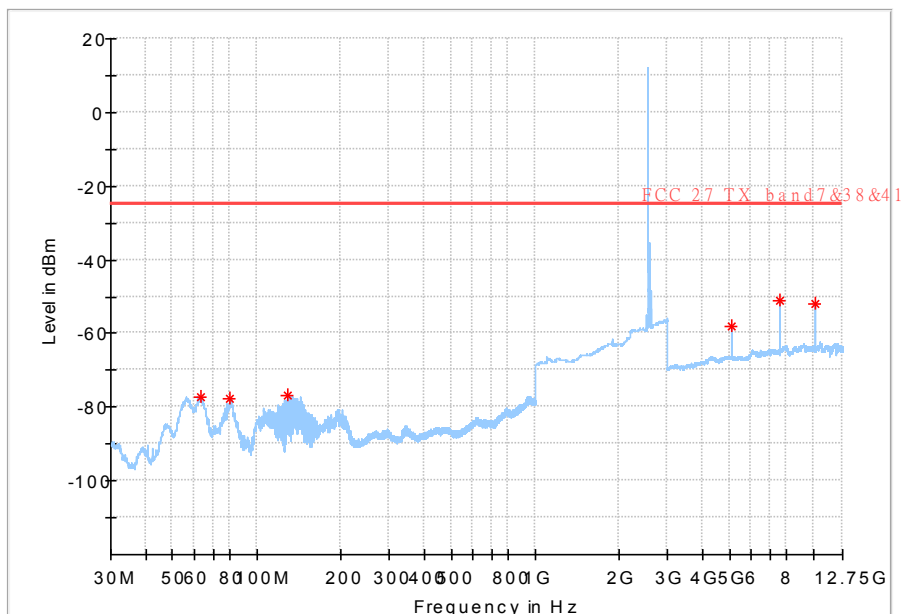
##### 7.1.1.1.1 Test Channel = LCH-Vertical

Full Spectrum



##### 7.1.1.1.2 Test Channel = LCH-Horizontal

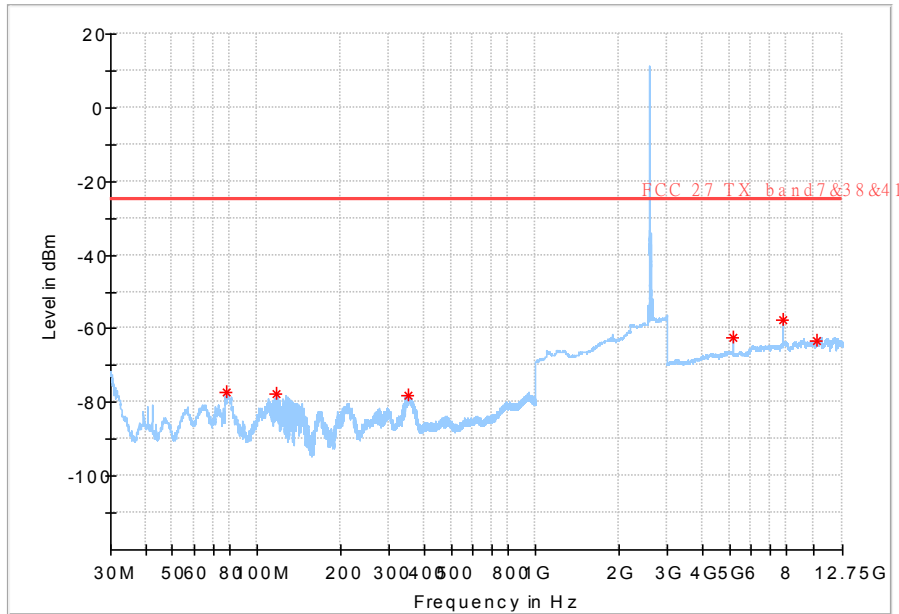
Full Spectrum





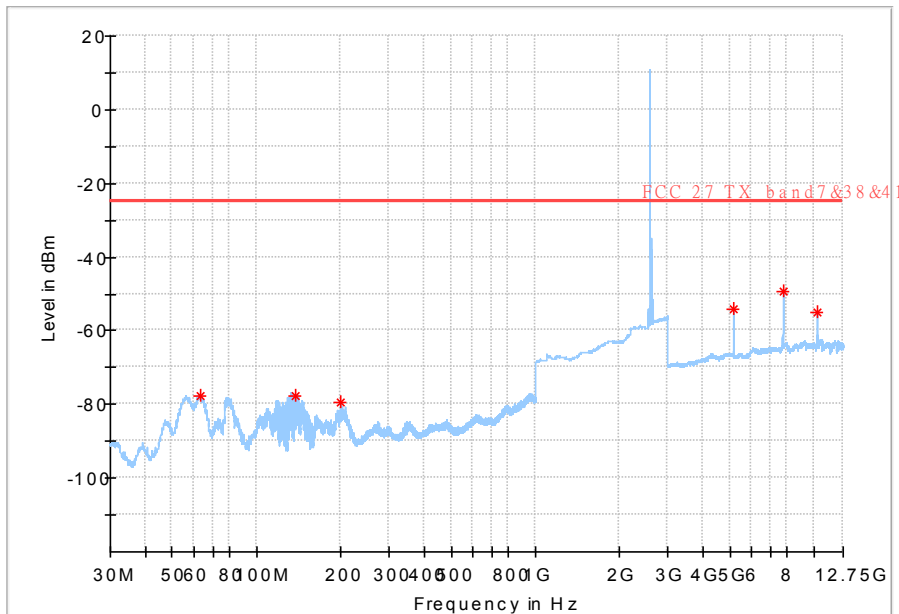
**7.1.1.1.3 Test Channel = MCH-Vertical**

Full Spectrum



**7.1.1.1.4 Test Channel = MCH-Horizontal**

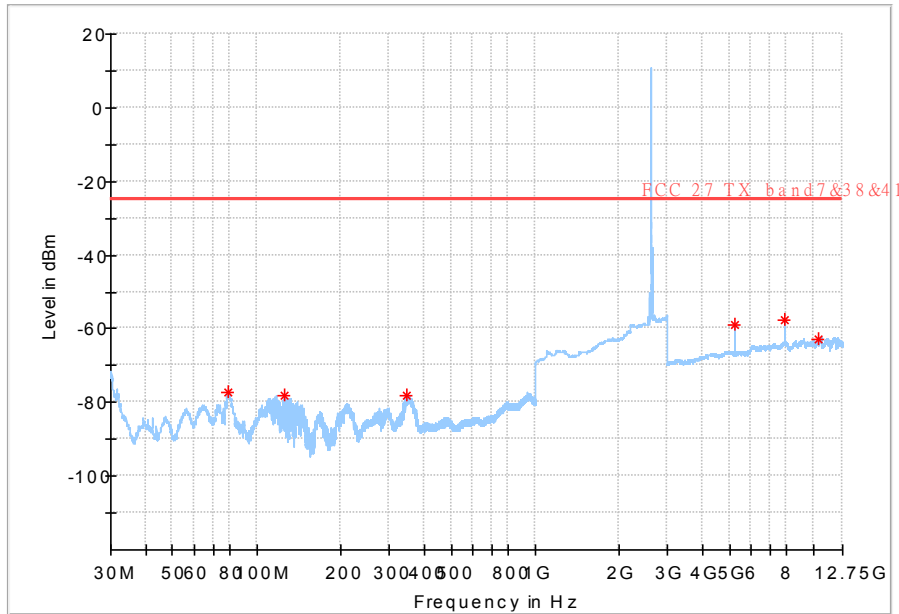
Full Spectrum





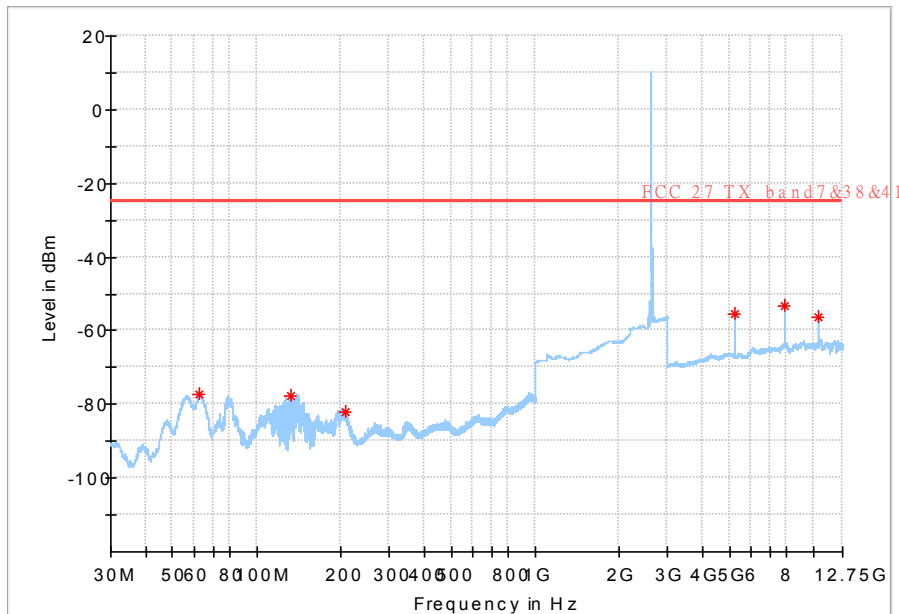
7.1.1.1.5 Test Channel = HCH-Vertical

Full Spectrum



7.1.1.1.6 Test Channel = HCH-Horizontal

Full Spectrum



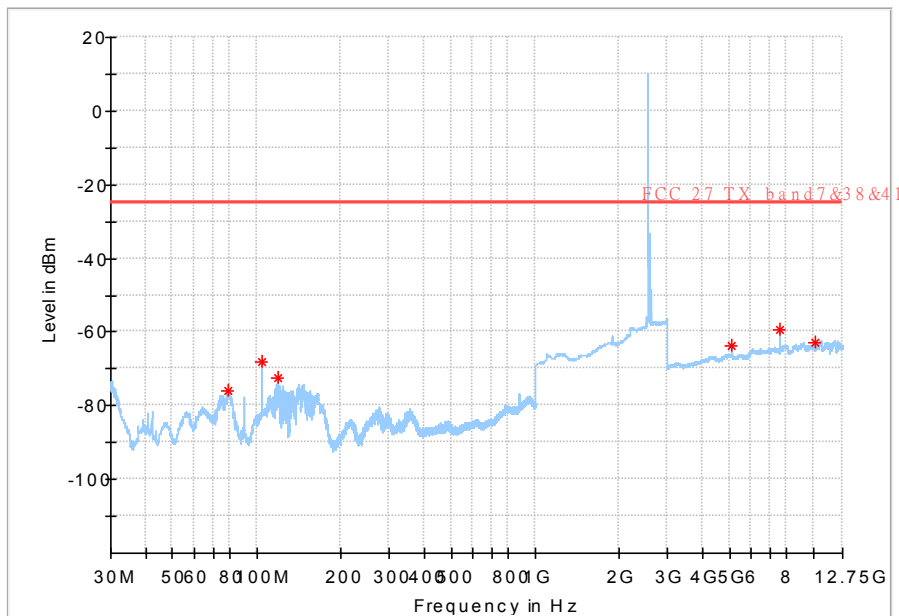


### 7.1.2 Test Band = LTE Band CA\_41C\_Secondary Antenna

#### 7.1.2.1 Test Mode = LTE/QPSK 100RB+100RB

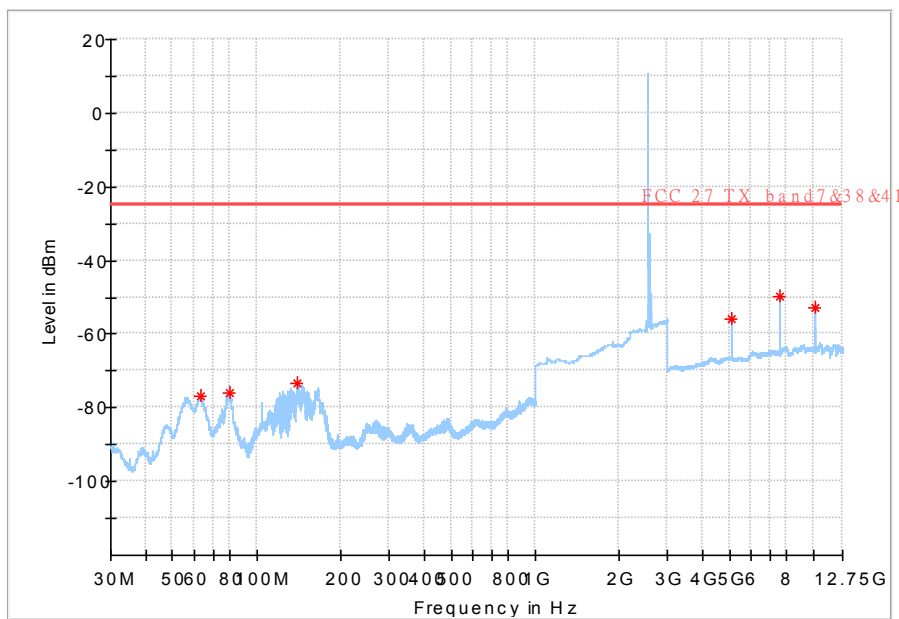
##### 7.1.2.1.1 Test Channel = LCH-Vertical

Full Spectrum



##### 7.1.2.1.2 Test Channel = LCH-Horizontal

Full Spectrum

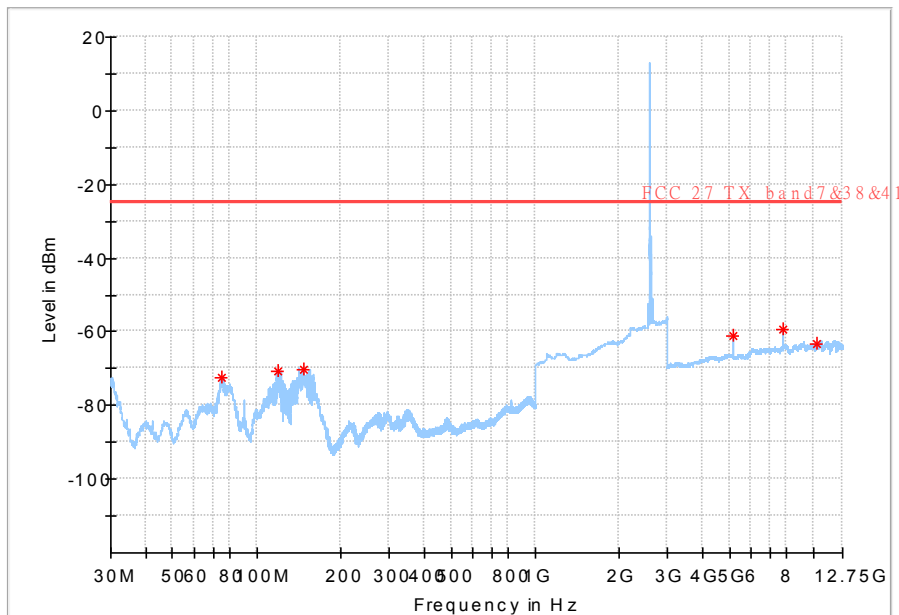


“This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. 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.



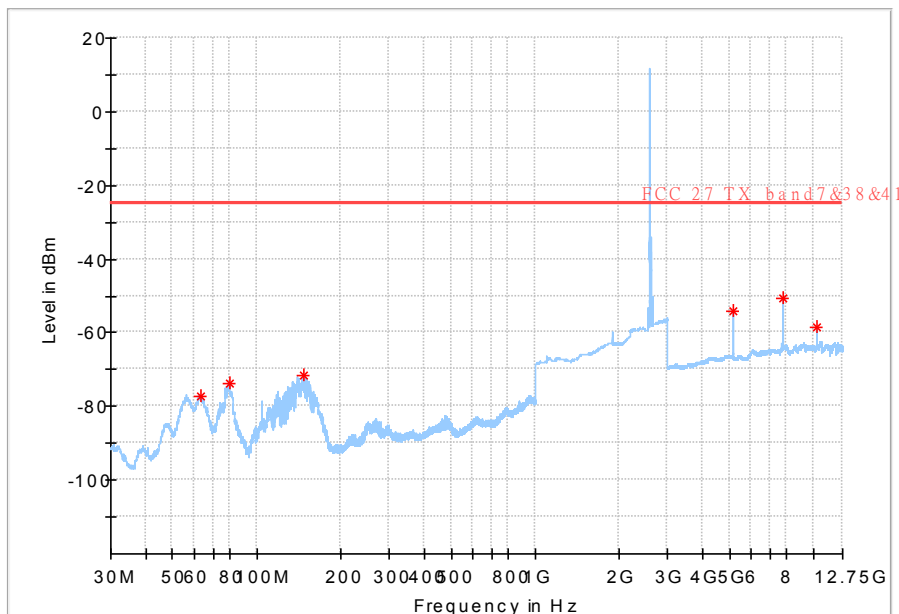
**7.1.2.1.3 Test Channel = MCH-Vertical**

Full Spectrum



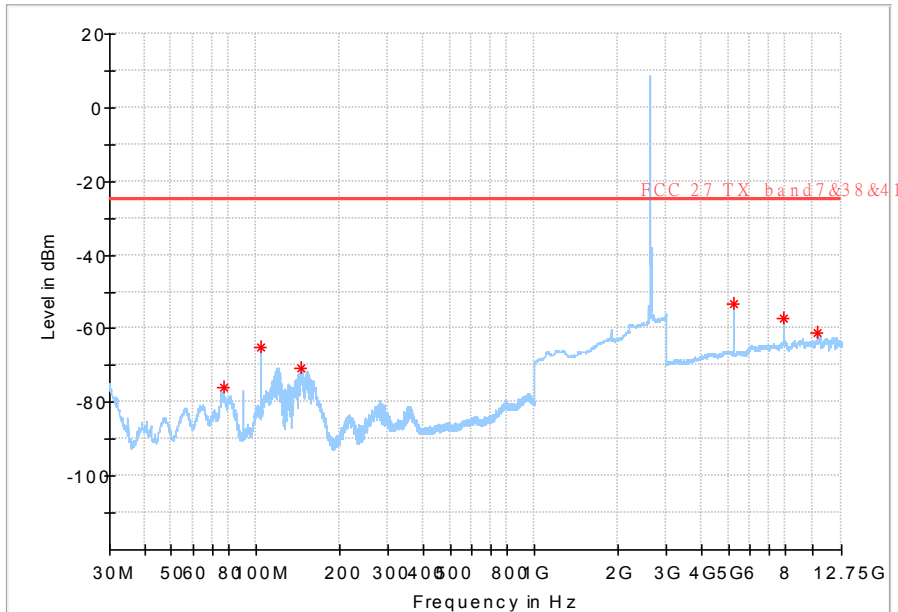
**7.1.2.1.4 Test Channel = MCH-Horizontal**

Full Spectrum



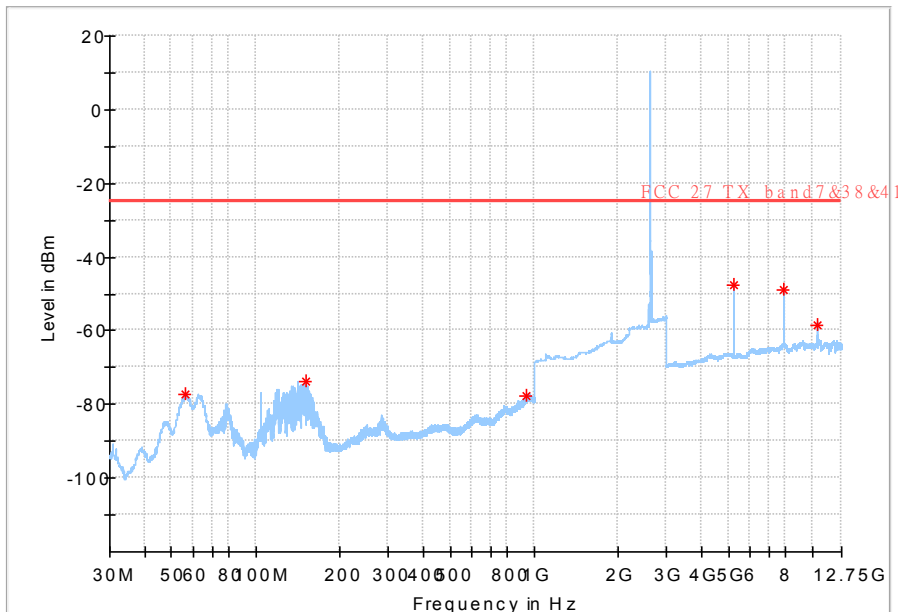
**7.1.2.1.5 Test Channel = HCH-Vertical**

Full Spectrum



**7.1.2.1.6 Test Channel = HCH-Horizontal**

Full Spectrum



**NOTE:**

- 1) 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 combinations and all modulations, but only the worst case data presented in this report.

“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.



## 8 Frequency Stability

### 8.1 Frequency Error VS. Voltage

Test Band	Test Mode	Test Channel	RB Config	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
CA_41C	QPSK	40240-40438	100RB#0/100RB#0	TN	NV	14.41	0.005640	PASS
CA_41C	QPSK	40591-40789	100RB#0/100RB#0	TN	NV	9.01	0.003479	PASS
CA_41C	QPSK	40942-41140	100RB#0/100RB#0	TN	NV	1.27	0.000483	PASS
CA_41C	QPSK	40438-40240	100RB#0/100RB#0	TN	NV	-9.82	-0.003813	PASS
CA_41C	QPSK	40438-40240	100RB#0/100RB#0	TN	NV	5.87	0.002247	PASS
CA_41C	QPSK	41140-40942	100RB#0/100RB#0	TN	NV	-15.50	-0.005860	PASS
CA_41C	16QAM	40240-40438	100RB#0/100RB#0	TN	NV	0.36	0.000143	PASS
CA_41C	16QAM	40591-40789	100RB#0/100RB#0	TN	NV	4.07	0.001570	PASS
CA_41C	16QAM	40942-41140	100RB#0/100RB#0	TN	NV	-8.25	-0.003141	PASS
CA_41C	16QAM	40438-40240	100RB#0/100RB#0	TN	NV	-7.42	-0.002880	PASS
CA_41C	16QAM	40438-40240	100RB#0/100RB#0	TN	NV	4.76	0.001825	PASS
CA_41C	16QAM	41140-40942	100RB#0/100RB#0	TN	NV	-5.43	-0.002054	PASS
CA_41C	64QAM	40240-40438	100RB#0/100RB#0	TN	NV	-3.30	-0.001293	PASS
CA_41C	64QAM	40591-40789	100RB#0/100RB#0	TN	NV	14.59	0.005634	PASS
CA_41C	64QAM	40942-41140	100RB#0/100RB#0	TN	NV	8.83	0.003364	PASS
CA_41C	64QAM	40438-40240	100RB#0/100RB#0	TN	NV	-11.56	-0.004490	PASS
CA_41C	64QAM	40438-40240	100RB#0/100RB#0	TN	NV	-12.01	-0.004603	PASS
CA_41C	64QAM	41140-40942	100RB#0/100RB#0	TN	NV	-15.24	-0.005763	PASS

### 8.2 Frequency Error VS. Temperature

Test Band	Test Mode	Test Channel	RB Config	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
CA_41C	QPSK	40240-40438	100RB#0/100RB#0	NV	-30	-12.38	-0.004844	PASS
CA_41C	QPSK	40240-40438	100RB#0/100RB#0	NV	-20	9.79	0.003833	PASS
CA_41C	QPSK	40240-40438	100RB#0/100RB#0	NV	-10	-1.40	-0.000549	PASS
CA_41C	QPSK	40240-40438	100RB#0/100RB#0	NV	0	5.69	0.002228	PASS
CA_41C	QPSK	40240-40438	100RB#0/100RB#0	NV	10	-10.49	-0.004106	PASS
CA_41C	QPSK	40240-40438	100RB#0/100RB#0	NV	20	4.25	0.001663	PASS
CA_41C	QPSK	40240-40438	100RB#0/100RB#0	NV	30	-1.88	-0.000736	PASS
CA_41C	QPSK	40240-40438	100RB#0/100RB#0	NV	40	11.95	0.004676	PASS
CA_41C	QPSK	40240-40438	100RB#0/100RB#0	NV	50	-9.98	-0.003907	PASS
CA_41C	QPSK	40591-40789	100RB#0/100RB#0	NV	-30	0.57	0.000220	PASS
CA_41C	QPSK	40591-40789	100RB#0/100RB#0	NV	-20	-4.06	-0.001566	PASS
CA_41C	QPSK	40591-40789	100RB#0/100RB#0	NV	-10	6.05	0.002336	PASS
CA_41C	QPSK	40591-40789	100RB#0/100RB#0	NV	0	-6.19	-0.002392	PASS
CA_41C	QPSK	40591-40789	100RB#0/100RB#0	NV	10	-2.69	-0.001037	PASS
CA_41C	QPSK	40591-40789	100RB#0/100RB#0	NV	20	-9.89	-0.003817	PASS
CA_41C	QPSK	40591-40789	100RB#0/100RB#0	NV	30	-6.15	-0.002374	PASS
CA_41C	QPSK	40591-40789	100RB#0/100RB#0	NV	40	-9.99	-0.003855	PASS
CA_41C	QPSK	40591-40789	100RB#0/100RB#0	NV	50	-3.01	-0.001162	PASS
CA_41C	QPSK	40942-41140	100RB#0/100RB#0	NV	-30	14.76	0.005622	PASS

<sup>4</sup>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 herein 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.



CA_41C	QPSK	40942-41140	100RB#0/100RB#0	NV	-20	0.44	0.000169	PASS
CA_41C	QPSK	40942-41140	100RB#0/100RB#0	NV	-10	13.88	0.005285	PASS
CA_41C	QPSK	40942-41140	100RB#0/100RB#0	NV	0	6.35	0.002420	PASS
CA_41C	QPSK	40942-41140	100RB#0/100RB#0	NV	10	2.65	0.001010	PASS
CA_41C	QPSK	40942-41140	100RB#0/100RB#0	NV	20	6.94	0.002642	PASS
CA_41C	QPSK	40942-41140	100RB#0/100RB#0	NV	30	-0.55	-0.000209	PASS
CA_41C	QPSK	40942-41140	100RB#0/100RB#0	NV	40	-1.71	-0.000652	PASS
CA_41C	QPSK	40942-41140	100RB#0/100RB#0	NV	50	5.36	0.002043	PASS
CA_41C	QPSK	40438-40240	100RB#0/100RB#0	NV	-30	-8.43	-0.003275	PASS
CA_41C	QPSK	40438-40240	100RB#0/100RB#0	NV	-20	-2.42	-0.000940	PASS
CA_41C	QPSK	40438-40240	100RB#0/100RB#0	NV	-10	14.80	0.005748	PASS
CA_41C	QPSK	40438-40240	100RB#0/100RB#0	NV	0	-4.96	-0.001928	PASS
CA_41C	QPSK	40438-40240	100RB#0/100RB#0	NV	10	-2.38	-0.000923	PASS
CA_41C	QPSK	40438-40240	100RB#0/100RB#0	NV	20	8.75	0.003397	PASS
CA_41C	QPSK	40438-40240	100RB#0/100RB#0	NV	30	-9.33	-0.003624	PASS
CA_41C	QPSK	40438-40240	100RB#0/100RB#0	NV	40	8.98	0.003487	PASS
CA_41C	QPSK	40438-40240	100RB#0/100RB#0	NV	50	6.30	0.002447	PASS
CA_41C	QPSK	40789-40591	100RB#0/100RB#0	NV	-30	-8.27	-0.003168	PASS
CA_41C	QPSK	40789-40591	100RB#0/100RB#0	NV	-20	-10.04	-0.003846	PASS
CA_41C	QPSK	40789-40591	100RB#0/100RB#0	NV	-10	-9.58	-0.003671	PASS
CA_41C	QPSK	40789-40591	100RB#0/100RB#0	NV	0	-12.99	-0.004977	PASS
CA_41C	QPSK	40789-40591	100RB#0/100RB#0	NV	10	-15.29	-0.005860	PASS
CA_41C	QPSK	40789-40591	100RB#0/100RB#0	NV	20	2.66	0.001020	PASS
CA_41C	QPSK	40789-40591	100RB#0/100RB#0	NV	30	-3.88	-0.001486	PASS
CA_41C	QPSK	40789-40591	100RB#0/100RB#0	NV	40	6.15	0.002358	PASS
CA_41C	QPSK	40789-40591	100RB#0/100RB#0	NV	50	-7.63	-0.002924	PASS
CA_41C	QPSK	41140-40942	100RB#0/100RB#0	NV	-30	5.99	0.002266	PASS
CA_41C	QPSK	41140-40942	100RB#0/100RB#0	NV	-20	-2.29	-0.000867	PASS
CA_41C	QPSK	41140-40942	100RB#0/100RB#0	NV	-10	1.93	0.000730	PASS
CA_41C	QPSK	41140-40942	100RB#0/100RB#0	NV	0	13.95	0.005274	PASS
CA_41C	QPSK	41140-40942	100RB#0/100RB#0	NV	10	14.99	0.005667	PASS
CA_41C	QPSK	41140-40942	100RB#0/100RB#0	NV	20	2.45	0.000927	PASS
CA_41C	QPSK	41140-40942	100RB#0/100RB#0	NV	30	9.25	0.003496	PASS
CA_41C	QPSK	41140-40942	100RB#0/100RB#0	NV	40	-1.09	-0.000411	PASS
CA_41C	QPSK	41140-40942	100RB#0/100RB#0	NV	50	-8.16	-0.003087	PASS
CA_41C	16QAM	40240-40438	100RB#0/100RB#0	NV	-30	11.31	0.004427	PASS
CA_41C	16QAM	40240-40438	100RB#0/100RB#0	NV	-20	3.80	0.001486	PASS
CA_41C	16QAM	40240-40438	100RB#0/100RB#0	NV	-10	-10.94	-0.004281	PASS
CA_41C	16QAM	40240-40438	100RB#0/100RB#0	NV	0	-13.72	-0.005370	PASS
CA_41C	16QAM	40240-40438	100RB#0/100RB#0	NV	10	-10.01	-0.003918	PASS
CA_41C	16QAM	40240-40438	100RB#0/100RB#0	NV	20	6.24	0.002440	PASS
CA_41C	16QAM	40240-40438	100RB#0/100RB#0	NV	30	-15.25	-0.005968	PASS
CA_41C	16QAM	40240-40438	100RB#0/100RB#0	NV	40	1.78	0.000696	PASS
CA_41C	16QAM	40240-40438	100RB#0/100RB#0	NV	50	-8.13	-0.003180	PASS
CA_41C	16QAM	40591-40789	100RB#0/100RB#0	NV	-30	8.08	0.003118	PASS
CA_41C	16QAM	40591-40789	100RB#0/100RB#0	NV	-20	0.70	0.000272	PASS
CA_41C	16QAM	40591-40789	100RB#0/100RB#0	NV	-10	-8.85	-0.003416	PASS
CA_41C	16QAM	40591-40789	100RB#0/100RB#0	NV	0	2.15	0.000831	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.





CA_41C	16QAM	40591-40789	100RB#0/100RB#0	NV	10	-11.49	-0.004436	PASS
CA_41C	16QAM	40591-40789	100RB#0/100RB#0	NV	20	-15.32	-0.005916	PASS
CA_41C	16QAM	40591-40789	100RB#0/100RB#0	NV	30	8.75	0.003380	PASS
CA_41C	16QAM	40591-40789	100RB#0/100RB#0	NV	40	10.77	0.004159	PASS
CA_41C	16QAM	40591-40789	100RB#0/100RB#0	NV	50	-5.75	-0.002220	PASS
CA_41C	16QAM	40942-41140	100RB#0/100RB#0	NV	-30	13.29	0.005064	PASS
CA_41C	16QAM	40942-41140	100RB#0/100RB#0	NV	-20	4.77	0.001818	PASS
CA_41C	16QAM	40942-41140	100RB#0/100RB#0	NV	-10	-15.14	-0.005766	PASS
CA_41C	16QAM	40942-41140	100RB#0/100RB#0	NV	0	-9.48	-0.003611	PASS
CA_41C	16QAM	40942-41140	100RB#0/100RB#0	NV	10	-3.59	-0.001369	PASS
CA_41C	16QAM	40942-41140	100RB#0/100RB#0	NV	20	2.82	0.001075	PASS
CA_41C	16QAM	40942-41140	100RB#0/100RB#0	NV	30	-4.72	-0.001796	PASS
CA_41C	16QAM	40942-41140	100RB#0/100RB#0	NV	40	-12.03	-0.004582	PASS
CA_41C	16QAM	40942-41140	100RB#0/100RB#0	NV	50	15.01	0.005719	PASS
CA_41C	16QAM	40438-40240	100RB#0/100RB#0	NV	-30	-13.06	-0.005072	PASS
CA_41C	16QAM	40438-40240	100RB#0/100RB#0	NV	-20	12.41	0.004821	PASS
CA_41C	16QAM	40438-40240	100RB#0/100RB#0	NV	-10	-2.22	-0.000863	PASS
CA_41C	16QAM	40438-40240	100RB#0/100RB#0	NV	0	-3.35	-0.001301	PASS
CA_41C	16QAM	40438-40240	100RB#0/100RB#0	NV	10	-8.65	-0.003359	PASS
CA_41C	16QAM	40438-40240	100RB#0/100RB#0	NV	20	-5.59	-0.002171	PASS
CA_41C	16QAM	40438-40240	100RB#0/100RB#0	NV	30	9.88	0.003838	PASS
CA_41C	16QAM	40438-40240	100RB#0/100RB#0	NV	40	1.25	0.000486	PASS
CA_41C	16QAM	40438-40240	100RB#0/100RB#0	NV	50	11.87	0.004609	PASS
CA_41C	16QAM	40789-40591	100RB#0/100RB#0	NV	-30	-6.21	-0.002380	PASS
CA_41C	16QAM	40789-40591	100RB#0/100RB#0	NV	-20	1.37	0.000524	PASS
CA_41C	16QAM	40789-40591	100RB#0/100RB#0	NV	-10	1.94	0.000743	PASS
CA_41C	16QAM	40789-40591	100RB#0/100RB#0	NV	0	-5.79	-0.002218	PASS
CA_41C	16QAM	40789-40591	100RB#0/100RB#0	NV	10	-12.58	-0.004820	PASS
CA_41C	16QAM	40789-40591	100RB#0/100RB#0	NV	20	-3.62	-0.001386	PASS
CA_41C	16QAM	40789-40591	100RB#0/100RB#0	NV	30	11.43	0.004379	PASS
CA_41C	16QAM	40789-40591	100RB#0/100RB#0	NV	40	6.49	0.002485	PASS
CA_41C	16QAM	40789-40591	100RB#0/100RB#0	NV	50	14.36	0.005502	PASS
CA_41C	16QAM	41140-40942	100RB#0/100RB#0	NV	-30	-5.67	-0.002144	PASS
CA_41C	16QAM	41140-40942	100RB#0/100RB#0	NV	-20	-10.73	-0.004058	PASS
CA_41C	16QAM	41140-40942	100RB#0/100RB#0	NV	-10	8.02	0.003031	PASS
CA_41C	16QAM	41140-40942	100RB#0/100RB#0	NV	0	9.54	0.003607	PASS
CA_41C	16QAM	41140-40942	100RB#0/100RB#0	NV	10	13.55	0.005124	PASS
CA_41C	16QAM	41140-40942	100RB#0/100RB#0	NV	20	1.20	0.000455	PASS
CA_41C	16QAM	41140-40942	100RB#0/100RB#0	NV	30	12.24	0.004629	PASS
CA_41C	16QAM	41140-40942	100RB#0/100RB#0	NV	40	-1.42	-0.000536	PASS
CA_41C	16QAM	41140-40942	100RB#0/100RB#0	NV	50	-3.74	-0.001415	PASS
CA_41C	64QAM	40240-40438	100RB#0/100RB#0	NV	-30	-12.15	-0.004754	PASS
CA_41C	64QAM	40240-40438	100RB#0/100RB#0	NV	-20	-4.76	-0.001861	PASS
CA_41C	64QAM	40240-40438	100RB#0/100RB#0	NV	-10	-14.35	-0.005617	PASS
CA_41C	64QAM	40240-40438	100RB#0/100RB#0	NV	0	-14.45	-0.005655	PASS
CA_41C	64QAM	40240-40438	100RB#0/100RB#0	NV	10	1.07	0.000420	PASS
CA_41C	64QAM	40240-40438	100RB#0/100RB#0	NV	20	-12.87	-0.005035	PASS
CA_41C	64QAM	40240-40438	100RB#0/100RB#0	NV	30	4.70	0.001839	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.



CA_41C	64QAM	40240-40438	100RB#0/100RB#0	NV	40	10.17	0.003981	PASS
CA_41C	64QAM	40240-40438	100RB#0/100RB#0	NV	50	-13.03	-0.005099	PASS
CA_41C	64QAM	40591-40789	100RB#0/100RB#0	NV	-30	-8.69	-0.003354	PASS
CA_41C	64QAM	40591-40789	100RB#0/100RB#0	NV	-20	3.61	0.001395	PASS
CA_41C	64QAM	40591-40789	100RB#0/100RB#0	NV	-10	3.68	0.001421	PASS
CA_41C	64QAM	40591-40789	100RB#0/100RB#0	NV	0	-3.73	-0.001440	PASS
CA_41C	64QAM	40591-40789	100RB#0/100RB#0	NV	10	-13.67	-0.005277	PASS
CA_41C	64QAM	40591-40789	100RB#0/100RB#0	NV	20	2.80	0.001081	PASS
CA_41C	64QAM	40591-40789	100RB#0/100RB#0	NV	30	-8.22	-0.003173	PASS
CA_41C	64QAM	40591-40789	100RB#0/100RB#0	NV	40	3.46	0.001334	PASS
CA_41C	64QAM	40591-40789	100RB#0/100RB#0	NV	50	-4.70	-0.001813	PASS
CA_41C	64QAM	40942-41140	100RB#0/100RB#0	NV	-30	-7.65	-0.002913	PASS
CA_41C	64QAM	40942-41140	100RB#0/100RB#0	NV	-20	-9.18	-0.003499	PASS
CA_41C	64QAM	40942-41140	100RB#0/100RB#0	NV	-10	1.38	0.000525	PASS
CA_41C	64QAM	40942-41140	100RB#0/100RB#0	NV	0	8.54	0.003255	PASS
CA_41C	64QAM	40942-41140	100RB#0/100RB#0	NV	10	14.99	0.005711	PASS
CA_41C	64QAM	40942-41140	100RB#0/100RB#0	NV	20	7.21	0.002748	PASS
CA_41C	64QAM	40942-41140	100RB#0/100RB#0	NV	30	14.36	0.005470	PASS
CA_41C	64QAM	40942-41140	100RB#0/100RB#0	NV	40	11.31	0.004306	PASS
CA_41C	64QAM	40942-41140	100RB#0/100RB#0	NV	50	-0.94	-0.000360	PASS
CA_41C	64QAM	40438-40240	100RB#0/100RB#0	NV	-30	1.69	0.000658	PASS
CA_41C	64QAM	40438-40240	100RB#0/100RB#0	NV	-20	-7.26	-0.002820	PASS
CA_41C	64QAM	40438-40240	100RB#0/100RB#0	NV	-10	3.53	0.001370	PASS
CA_41C	64QAM	40438-40240	100RB#0/100RB#0	NV	0	-3.35	-0.001303	PASS
CA_41C	64QAM	40438-40240	100RB#0/100RB#0	NV	10	-5.56	-0.002160	PASS
CA_41C	64QAM	40438-40240	100RB#0/100RB#0	NV	20	1.72	0.000668	PASS
CA_41C	64QAM	40438-40240	100RB#0/100RB#0	NV	30	-1.71	-0.000662	PASS
CA_41C	64QAM	40438-40240	100RB#0/100RB#0	NV	40	3.98	0.001544	PASS
CA_41C	64QAM	40438-40240	100RB#0/100RB#0	NV	50	3.72	0.001445	PASS
CA_41C	64QAM	40789-40591	100RB#0/100RB#0	NV	-30	-15.50	-0.005938	PASS
CA_41C	64QAM	40789-40591	100RB#0/100RB#0	NV	-20	5.33	0.002044	PASS
CA_41C	64QAM	40789-40591	100RB#0/100RB#0	NV	-10	13.98	0.005356	PASS
CA_41C	64QAM	40789-40591	100RB#0/100RB#0	NV	0	5.45	0.002090	PASS
CA_41C	64QAM	40789-40591	100RB#0/100RB#0	NV	10	4.11	0.001576	PASS
CA_41C	64QAM	40789-40591	100RB#0/100RB#0	NV	20	-14.54	-0.005569	PASS
CA_41C	64QAM	40789-40591	100RB#0/100RB#0	NV	30	-13.56	-0.005194	PASS
CA_41C	64QAM	40789-40591	100RB#0/100RB#0	NV	40	1.46	0.000559	PASS
CA_41C	64QAM	40789-40591	100RB#0/100RB#0	NV	50	-15.77	-0.006044	PASS
CA_41C	64QAM	41140-40942	100RB#0/100RB#0	NV	-30	3.77	0.001425	PASS
CA_41C	64QAM	41140-40942	100RB#0/100RB#0	NV	-20	13.81	0.005222	PASS
CA_41C	64QAM	41140-40942	100RB#0/100RB#0	NV	-10	-8.42	-0.003184	PASS
CA_41C	64QAM	41140-40942	100RB#0/100RB#0	NV	0	-13.20	-0.004990	PASS
CA_41C	64QAM	41140-40942	100RB#0/100RB#0	NV	10	-14.67	-0.005546	PASS
CA_41C	64QAM	41140-40942	100RB#0/100RB#0	NV	20	-8.48	-0.003204	PASS
CA_41C	64QAM	41140-40942	100RB#0/100RB#0	NV	30	-5.50	-0.002080	PASS
CA_41C	64QAM	41140-40942	100RB#0/100RB#0	NV	40	-12.68	-0.004795	PASS
CA_41C	64QAM	41140-40942	100RB#0/100RB#0	NV	50	9.87	0.003732	PASS

<sup>4</sup>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.