

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX120619\
 Data File : VX013801.D
 Acq On : 06 Dec 2019 15:52
 Operator : JC/SP
 Sample : K6184-18
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE109D2-20191204

Quant Time: Dec 07 02:38:04 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112619W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 26 15:53:00 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	632308	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	971092	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	858630	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	373105	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	346162	47.16	ug/l	0.00
Spiked Amount			Recovery	=	94.32%	
35) Dibromofluoromethane	5.49	113	288806	48.11	ug/l	0.00
Spiked Amount			Recovery	=	96.22%	
50) Toluene-d8	8.71	98	1135913	48.56	ug/l	0.00
Spiked Amount			Recovery	=	97.12%	
62) 4-Bromofluorobenzene	11.13	95	378032	44.82	ug/l	0.00
Spiked Amount			Recovery	=	89.64%	

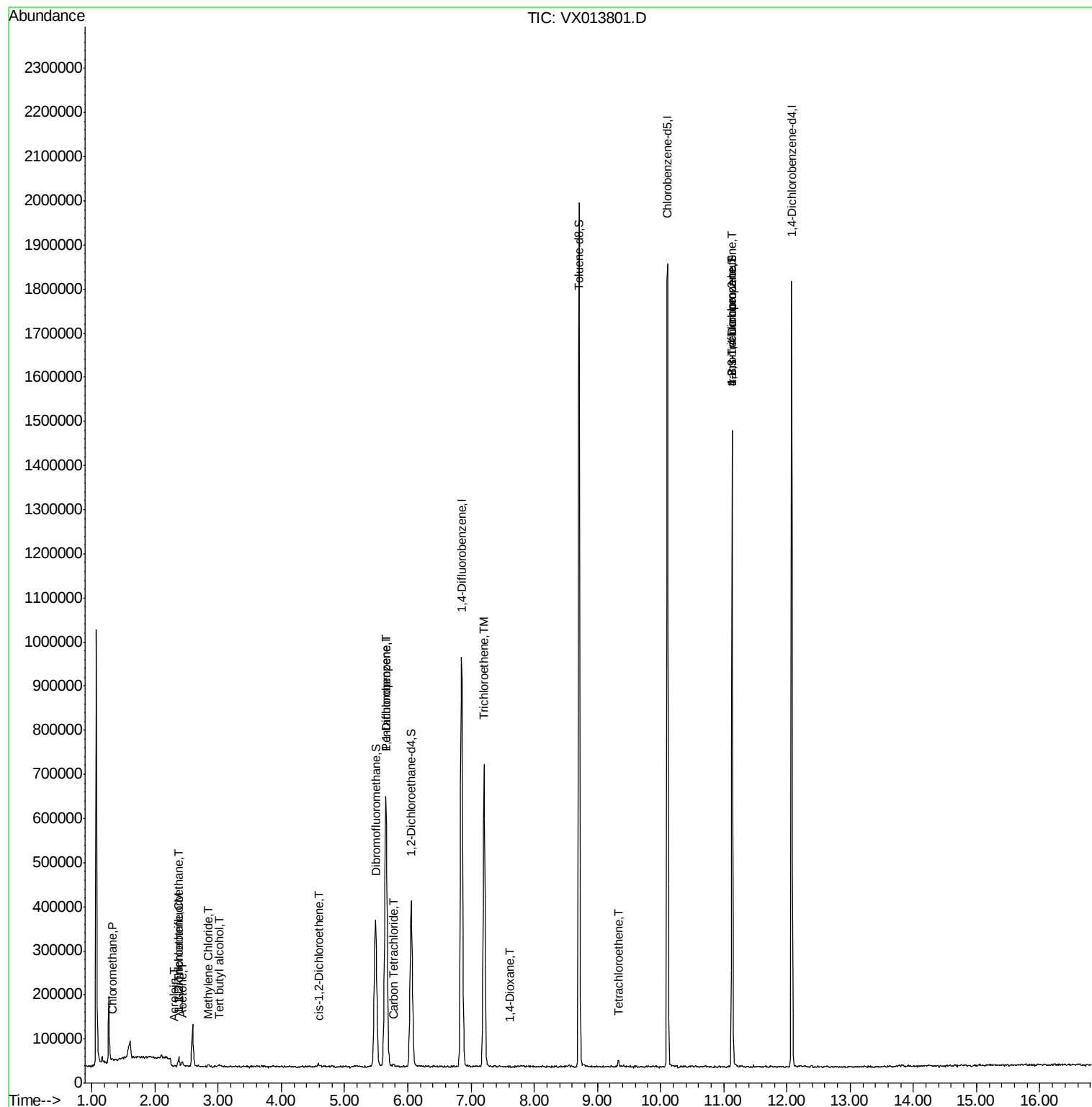
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	2809	0.356	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	2.37	101	7829	1.299	ug/l	97
11) Tert butyl alcohol	3.02	59	5192	2.866	ug/l	99
12) 1,1-Dichloroethene	2.36	96	1836	0.305	ug/l	86
13) Acrolein	2.30	56	492	6.400	ug/l #	44
16) Acetone	2.44	43	10348	2.856	ug/l #	83
20) Methylene Chloride	2.85	84	1792	0.257	ug/l #	77
27) cis-1,2-Dichloroethene	4.59	96	2787	0.370	ug/l	90
36) 1,1-Dichloropropene	5.65	75	41957	4.760	ug/l #	52
38) Carbon Tetrachloride	5.78	117	3192	0.393	ug/l #	73
44) Trichloroethene	7.21	130	273225	37.081	ug/l	95
49) 1,4-Dioxane	7.61	88	315	1.779	ug/l	92
64) Tetrachloroethene	9.34	164	3202	0.500	ug/l	97
76) 1,2,3-Trichloropropane	11.13	75	184934	22.037	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	184934	60.291	ug/l #	11

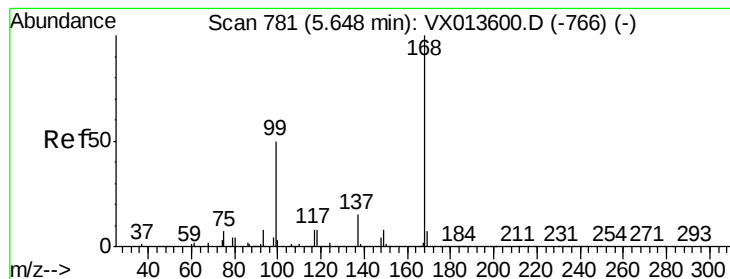
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Nov 26 15:53:00 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX013801.D

Acq: 06 Dec 2019 15:52

Instrument :

MSVOA_X

ClientSampleId :

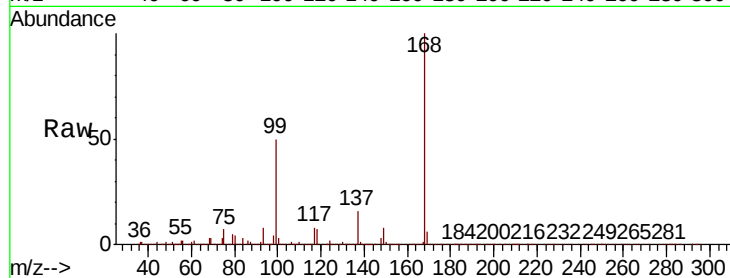
RE109D2-20191204

Tot Ion:168 Resp: 632308

Ion Ratio Lower Upper

168 100

99 49.5 39.8 59.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

250000

200000

150000

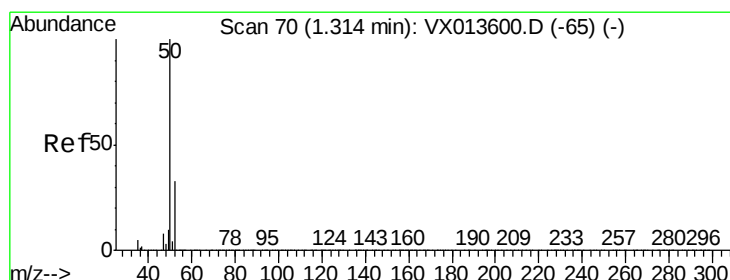
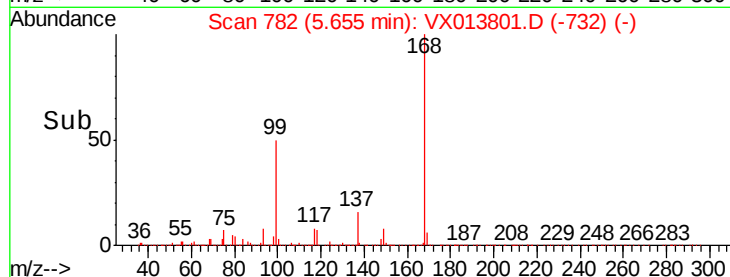
100000

50000

0

5.50 5.60 5.70 5.80

Time-->



#3

Chloromethane

Concen: 0.356 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.01 min

Lab File: VX013801.D

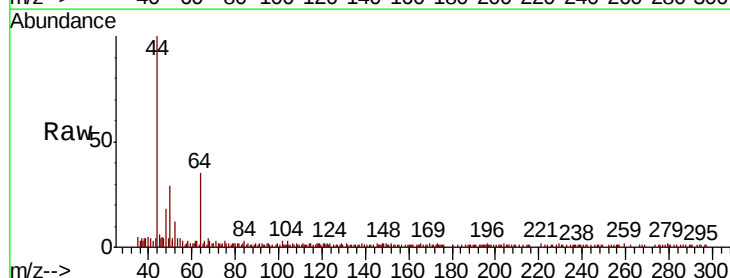
Acq: 06 Dec 2019 15:52

Tgt Ion: 50 Resp: 2809

Ion Ratio Lower Upper

50 100

52 33.3 26.0 39.0



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

3000

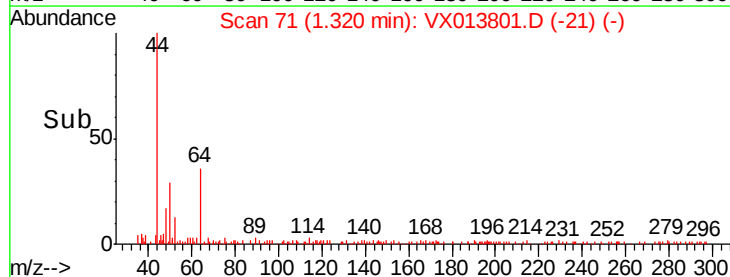
2000

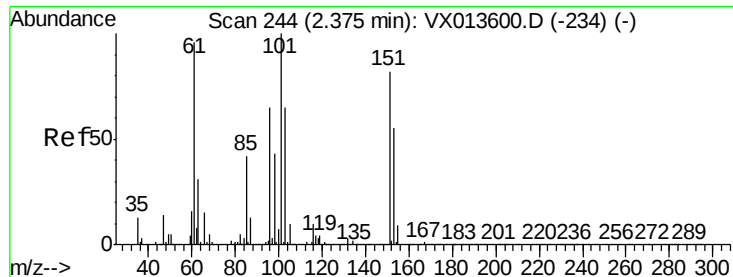
1000

0

1.28 1.30 1.32 1.34 1.36

Time-->





#9

1,1,2-Trichlorotrifluoroethane

Concen: 1.299 ug/l

RT: 2.37 min Scan# 244

Delta R.T. 0.00 min

Lab File: VX013801.D

Acq: 06 Dec 2019 15:52

Instrument :

MSVOA_X

ClientSampleId :

RE109D2-20191204

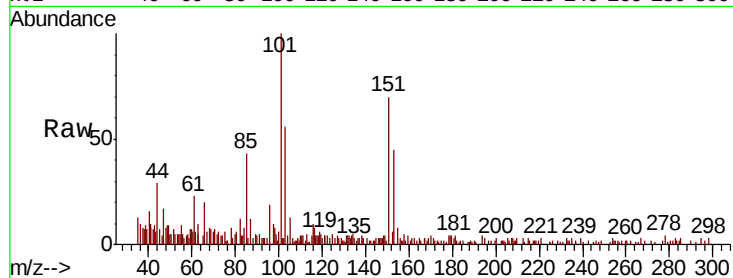
Tot Ion:101 Resp: 7829

Ion Ratio Lower Upper

101 100

85 43.8 33.9 50.9

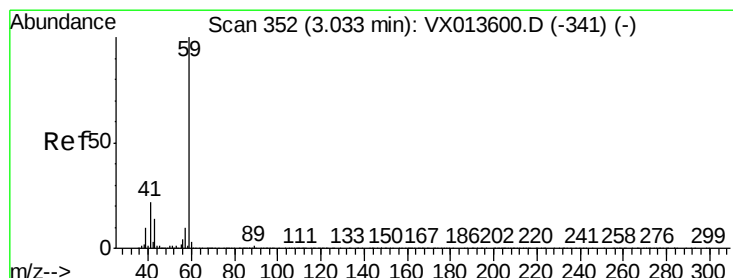
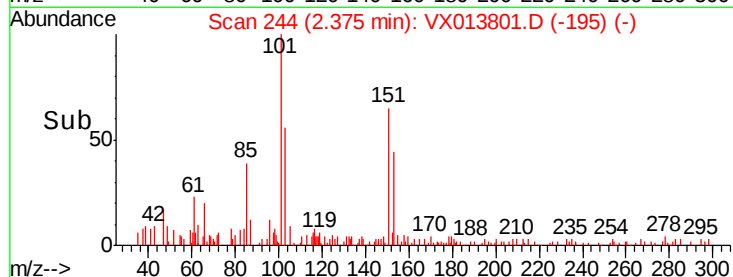
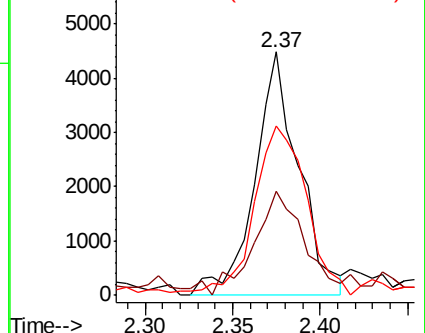
151 83.0 64.2 96.2



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V



#11

Tert butyl alcohol

Concen: 2.866 ug/l

RT: 3.02 min Scan# 350

Delta R.T. -0.01 min

Lab File: VX013801.D

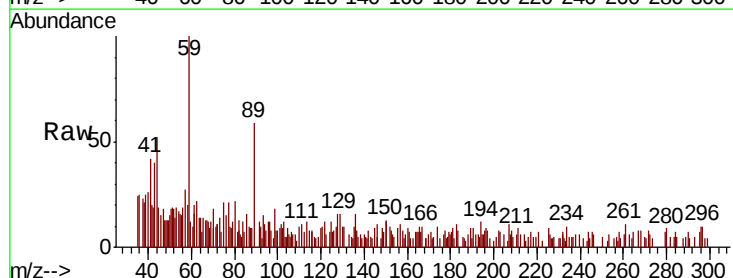
Acq: 06 Dec 2019 15:52

Tgt Ion: 59 Resp: 5192

Ion Ratio Lower Upper

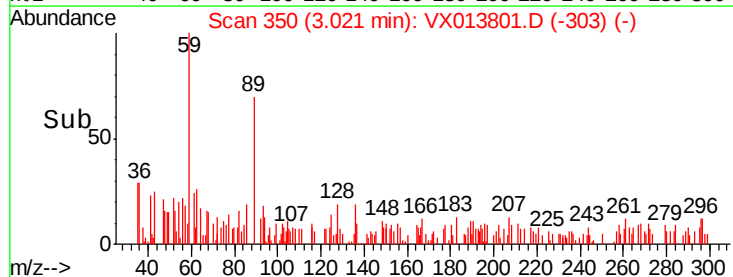
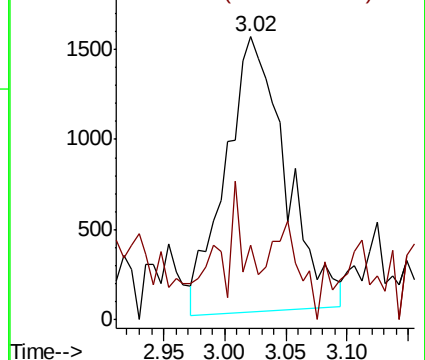
59 100

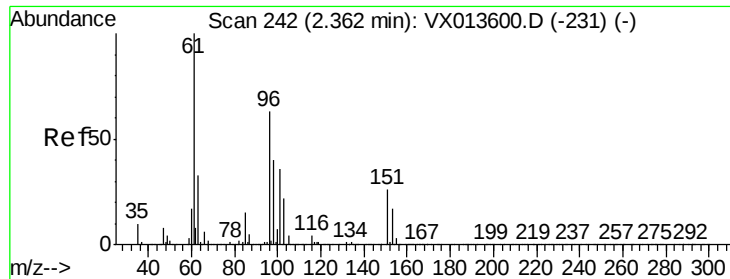
57 9.4 7.8 11.6



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#12

1,1-Dichloroethene

Concen: 0.305 ug/l

RT: 2.36 min Scan# 242

Delta R.T. 0.00 min

Lab File: VX013801.D

Acq: 06 Dec 2019 15:52

Instrument :

MSVOA_X

ClientSampleId :

RE109D2-20191204

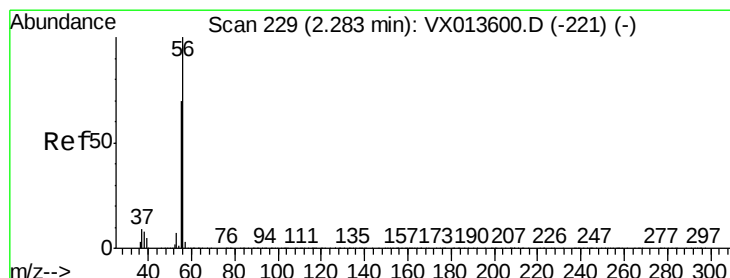
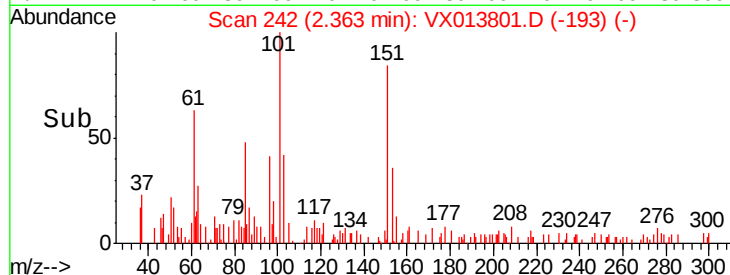
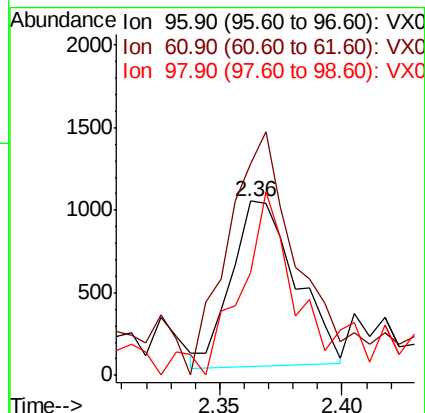
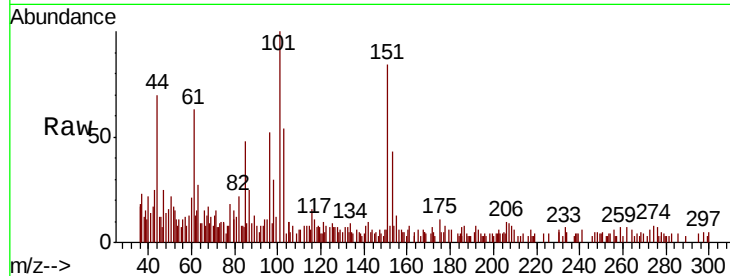
Tot Ion: 96 Resp: 1836

Ion Ratio Lower Upper

96 100

61 138.7 126.6 190.0

98 53.2 50.6 76.0



#13

Acrolein

Concen: 6.400 ug/l

RT: 2.30 min Scan# 232

Delta R.T. 0.02 min

Lab File: VX013801.D

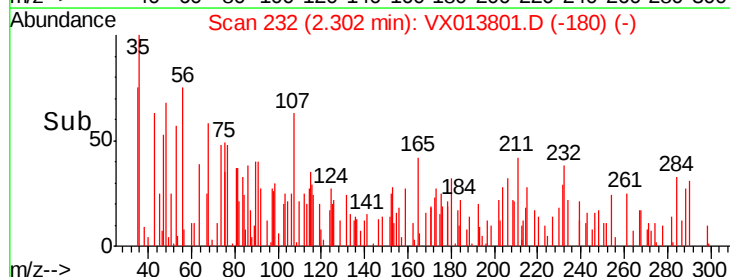
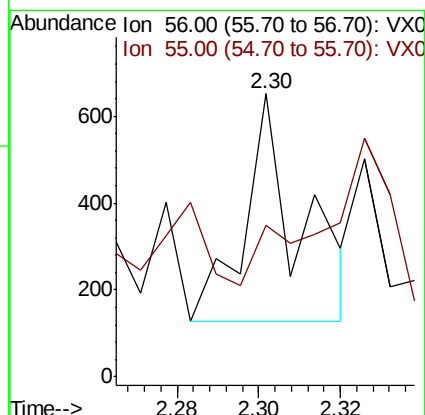
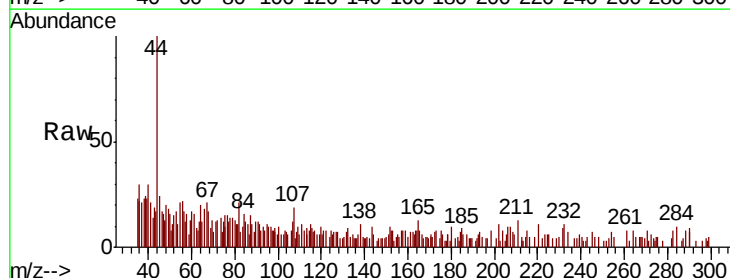
Acq: 06 Dec 2019 15:52

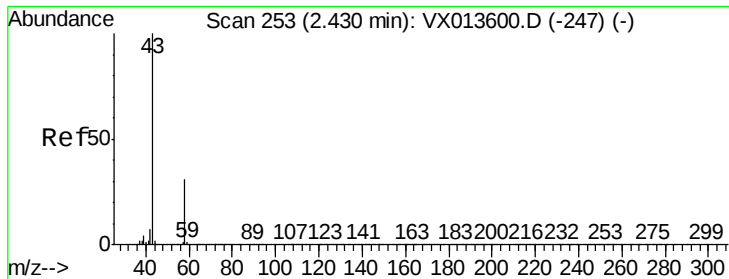
Tgt Ion: 56 Resp: 492

Ion Ratio Lower Upper

56 100

55 24.6 56.2 84.4#

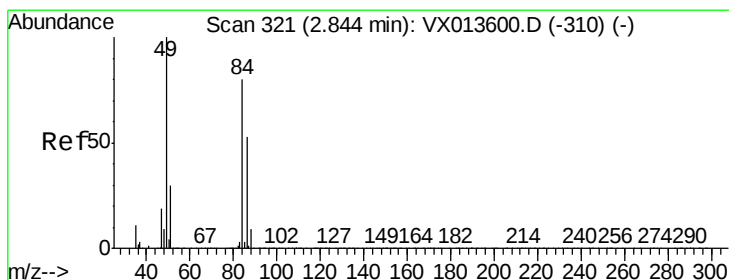
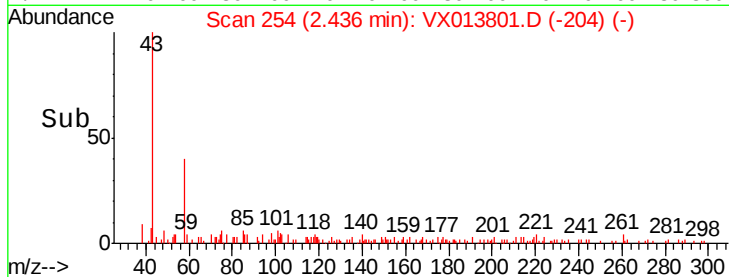
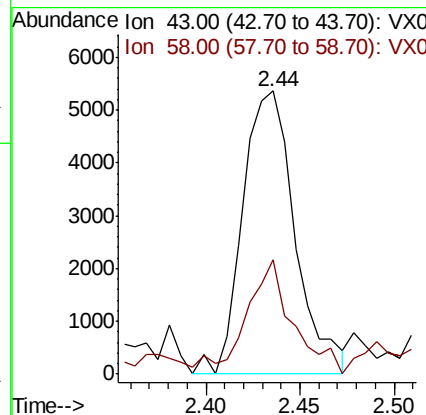
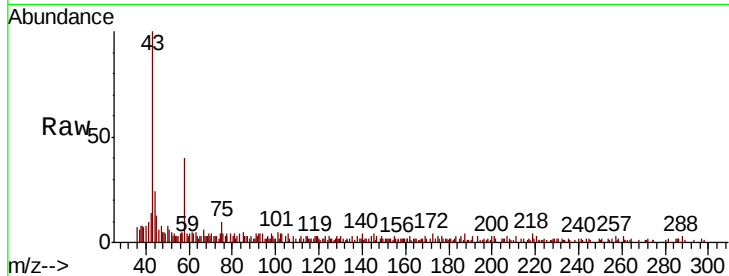




#16
Acetone
Concen: 2.856 ug/l
RT: 2.44 min Scan# 254
Delta R.T. 0.01 min
Lab File: VX013801.D
Acq: 06 Dec 2019 15:52

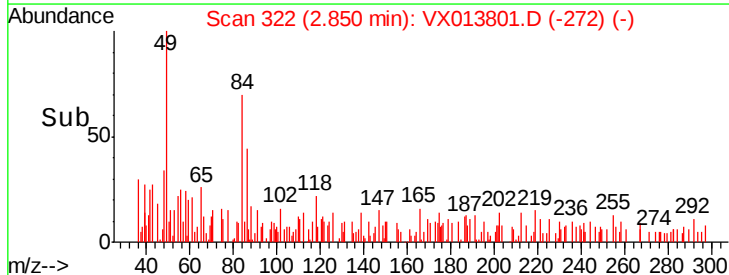
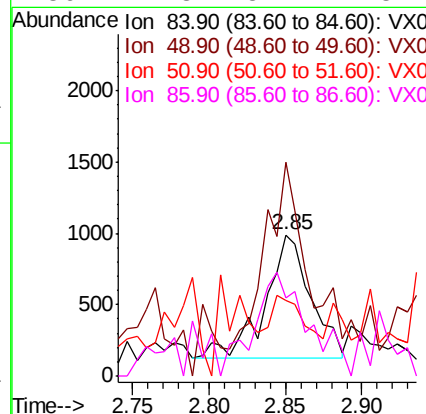
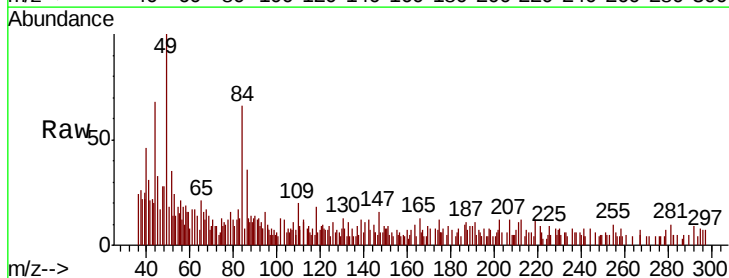
Instrument :
MSVOA_X
ClientSampleId :
RE109D2-20191204

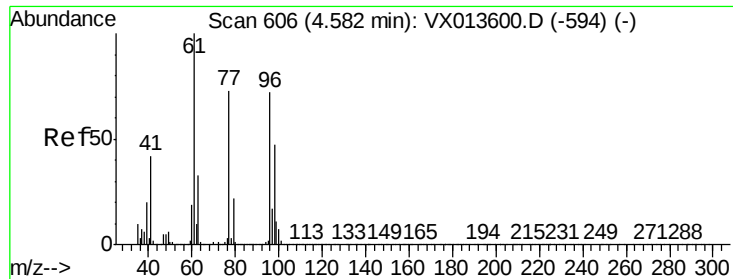
Tot Ion: 43 Resp: 10348
Ion Ratio Lower Upper
43 100
58 40.2 24.6 36.8#



#20
Methylene Chloride
Concen: 0.257 ug/l
RT: 2.85 min Scan# 322
Delta R.T. 0.01 min
Lab File: VX013801.D
Acq: 06 Dec 2019 15:52

Tgt Ion: 84 Resp: 1792
Ion Ratio Lower Upper
84 100
49 143.7 99.7 149.5
51 16.0 29.9 44.9#
86 42.3 52.2 78.4#



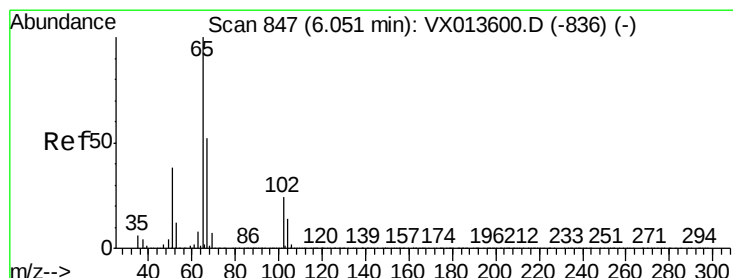
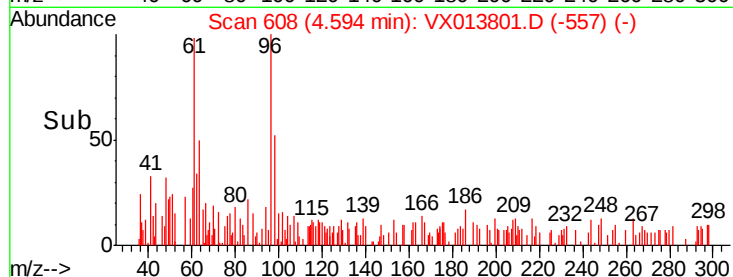
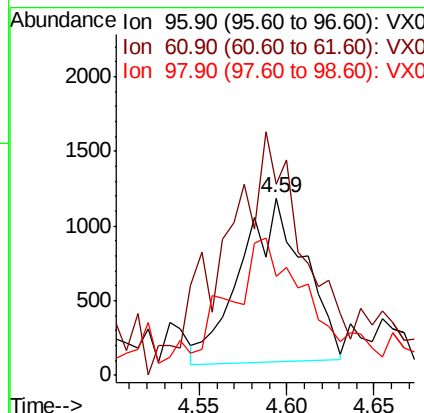
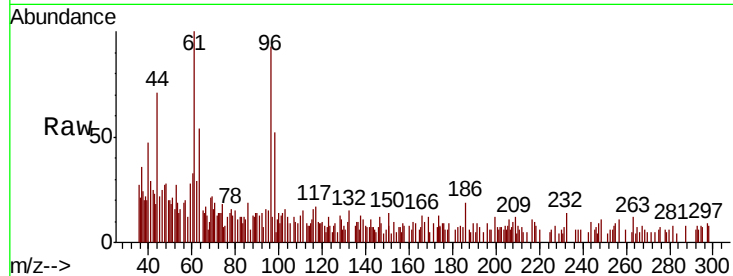


#27

cis-1,2-Dichloroethene
Concen: 0.370 ug/l
RT: 4.59 min Scan# 608
Delta R.T. 0.01 min
Lab File: VX013801.D
Acq: 06 Dec 2019 15:52

Instrument :
MSVOA_X
ClientSampleId :
RE109D2-20191204

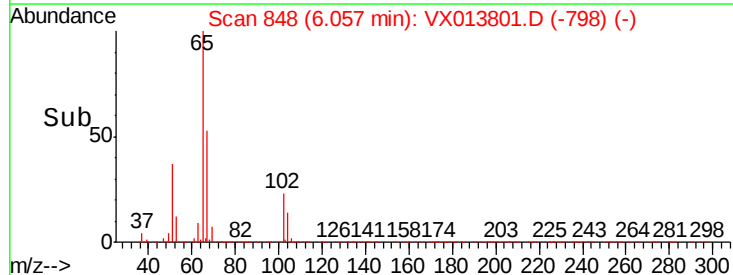
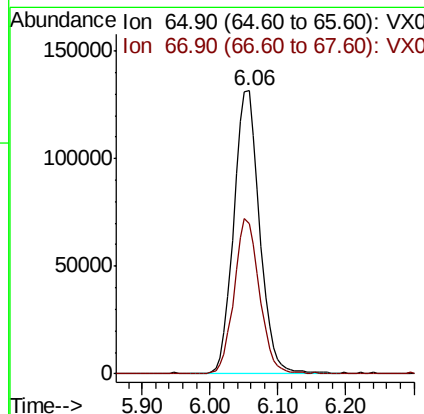
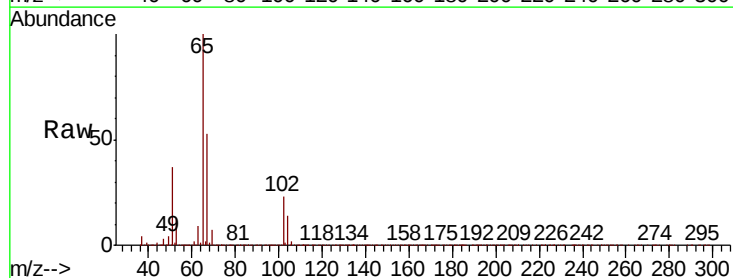
Tot Ion	Ratio	Lower	Upper
96	100		
61	146.4	0.0	286.4
98	83.5	0.0	127.4

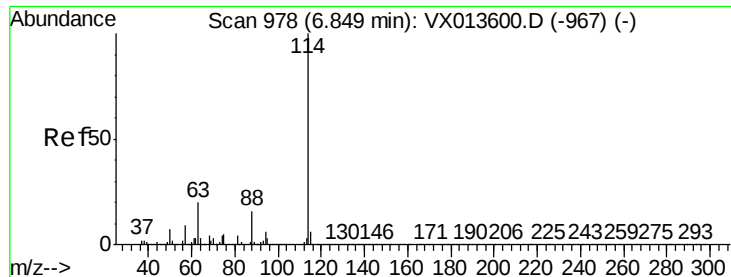


#33

1,2-Dichloroethane-d4
Concen: 47.163 ug/l
RT: 6.06 min Scan# 848
Delta R.T. 0.01 min
Lab File: VX013801.D
Acq: 06 Dec 2019 15:52

Tgt Ion	Ratio	Lower	Upper
65	100		
67	53.6	0.0	104.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX013801.D

Acq: 06 Dec 2019 15:52

Instrument :

MSVOA_X

ClientSampleId :

RE109D2-20191204

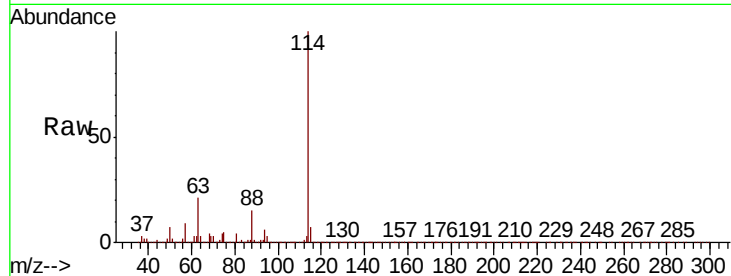
Tot Ion:114 Resp: 971092

Ion Ratio Lower Upper

114 100

63 20.6 0.0 39.6

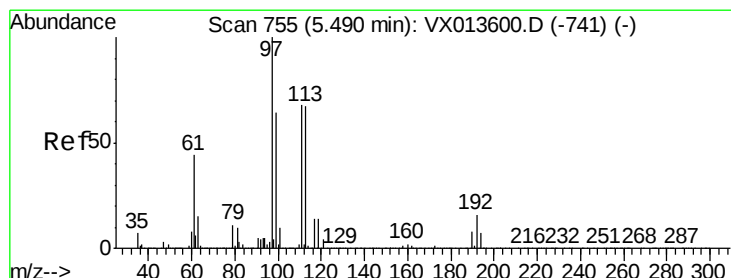
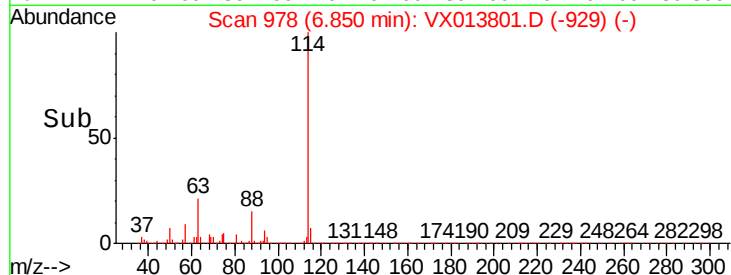
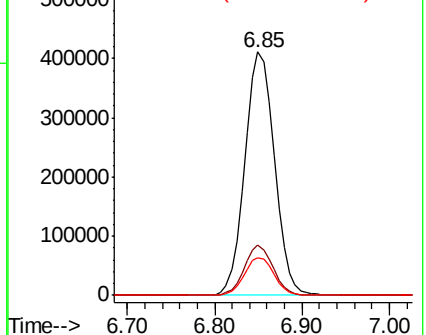
88 15.4 0.0 31.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 48.107 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX013801.D

Acq: 06 Dec 2019 15:52

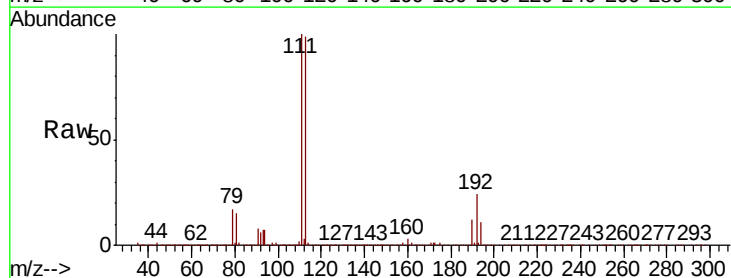
Tgt Ion:113 Resp: 288806

Ion Ratio Lower Upper

113 100

111 102.0 83.6 125.4

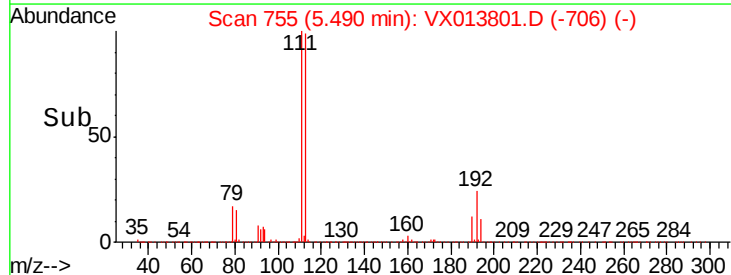
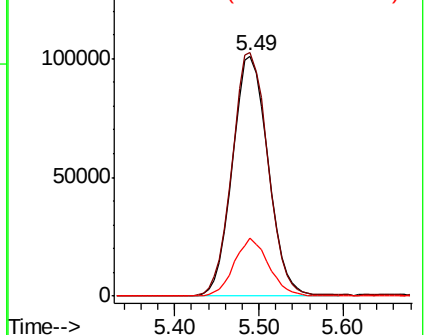
192 23.4 19.2 28.8

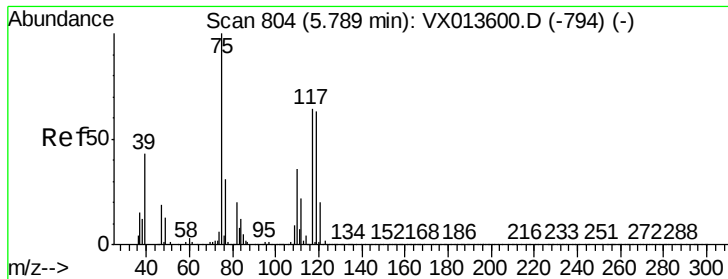


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.760 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.13 min

Lab File: VX013801.D

Acq: 06 Dec 2019 15:52

Instrument :

MSVOA_X

ClientSampleId :

RE109D2-20191204

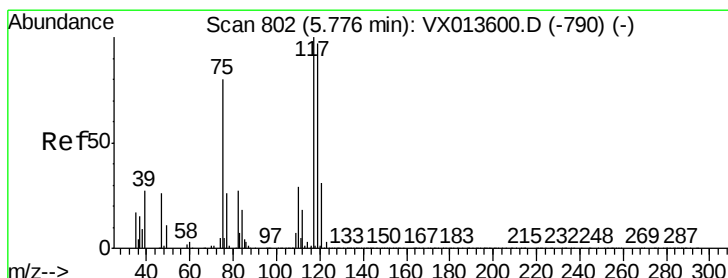
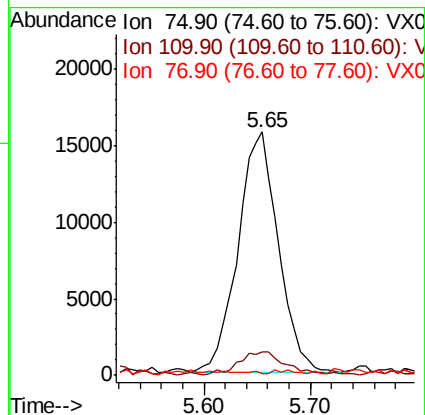
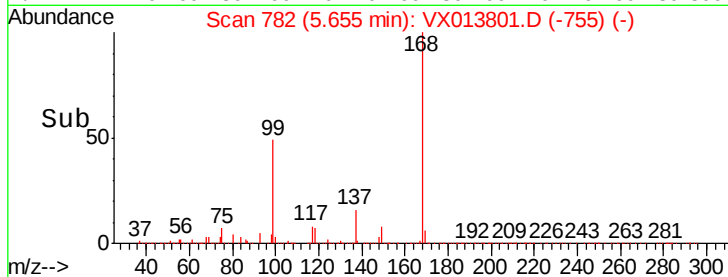
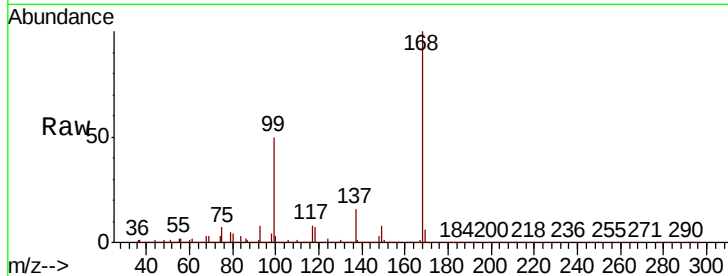
Tot Ion: 75 Resp: 41957

Ion Ratio Lower Upper

75 100

110 11.5 18.1 54.1#

77 0.0 24.5 36.7#



#38

Carbon Tetrachloride

Concen: 0.393 ug/l

RT: 5.78 min Scan# 803

Delta R.T. 0.01 min

Lab File: VX013801.D

Acq: 06 Dec 2019 15:52

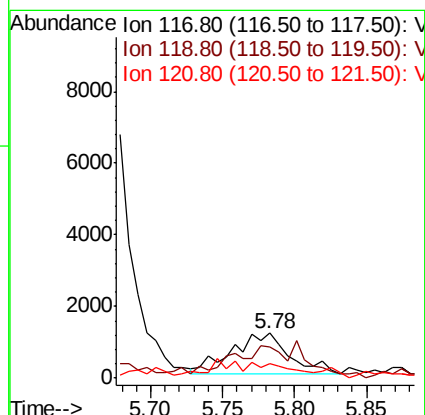
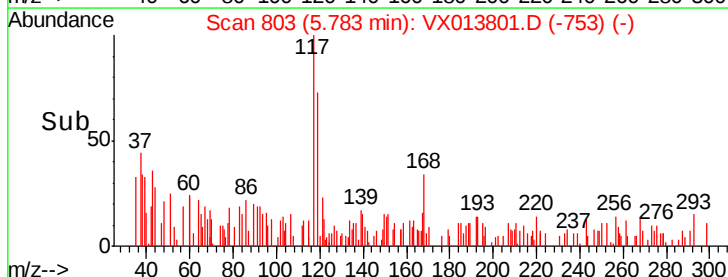
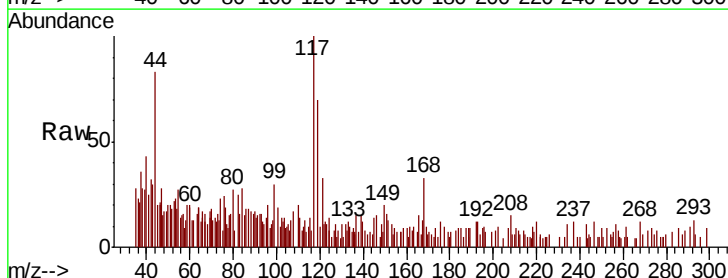
Tgt Ion: 117 Resp: 3192

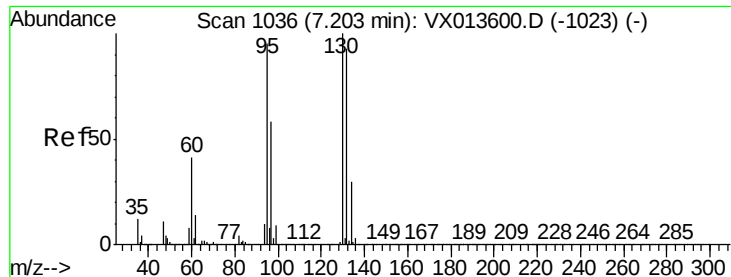
Ion Ratio Lower Upper

117 100

119 67.4 77.5 116.3#

121 22.4 25.0 37.6#





#44

Trichloroethene

Concen: 37.081 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.01 min

Lab File: VX013801.D

Acq: 06 Dec 2019 15:52

Instrument :

MSVOA_X

ClientSampleId :

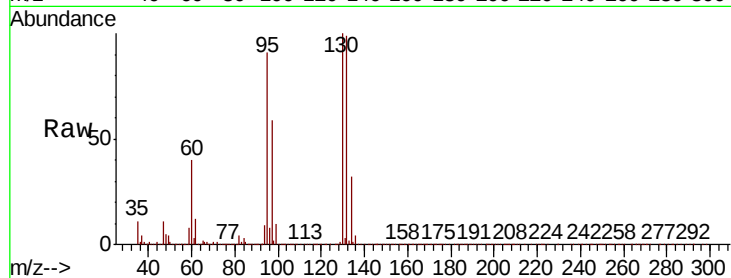
RE109D2-20191204

Tot Ion:130 Resp: 273225

Ion Ratio Lower Upper

130 100

95 90.5 0.0 190.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.21

150000

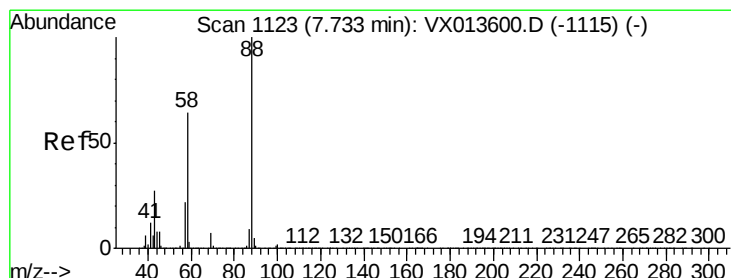
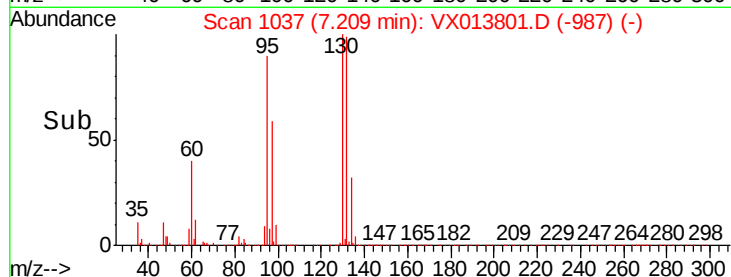
100000

50000

0

7.10 7.20 7.30

Time-->



#49

1,4-Dioxane

Concen: 1.779 ug/l

RT: 7.61 min Scan# 1102

Delta R.T. -0.13 min

Lab File: VX013801.D

Acq: 06 Dec 2019 15:52

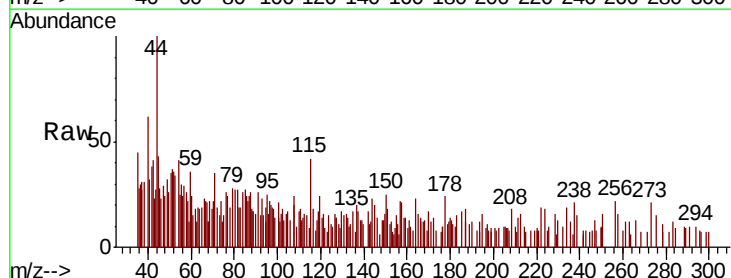
Tgt Ion: 88 Resp: 315

Ion Ratio Lower Upper

88 100

43 29.2 25.8 38.6

58 61.0 54.6 82.0



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

800

600

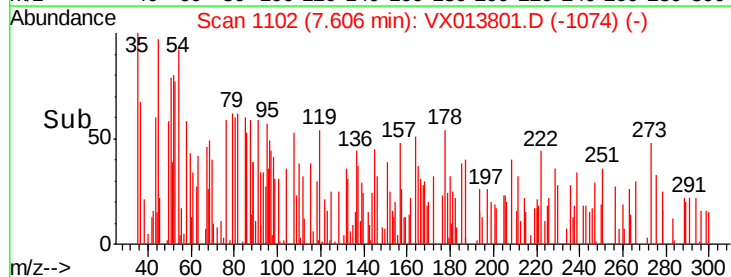
400

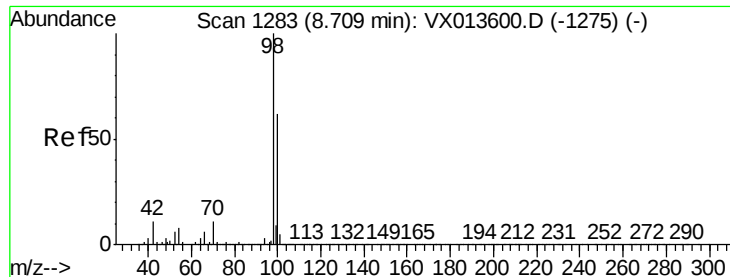
200

0

7.58 7.60 7.62

Time-->





#50

Toluene-d8

Concen: 48.564 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX013801.D

Acq: 06 Dec 2019 15:52

Instrument :

MSVOA_X

ClientSampleId :

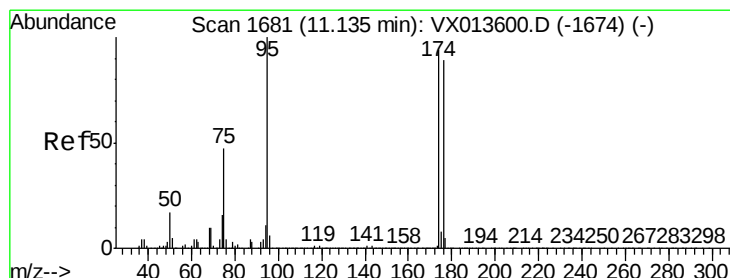
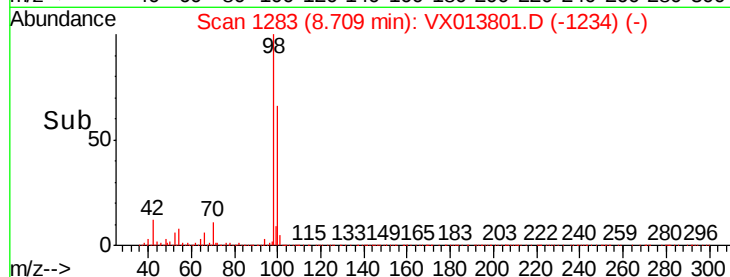
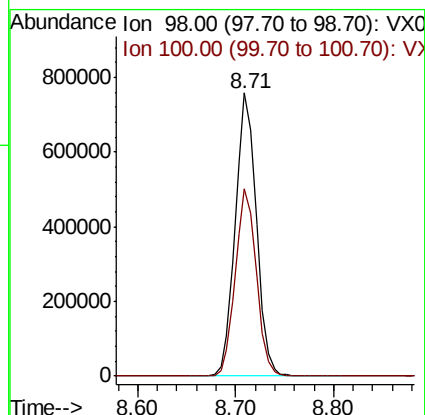
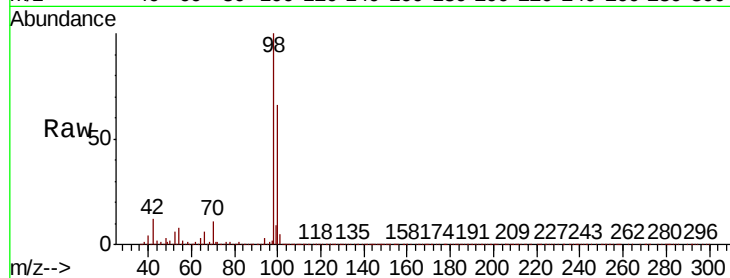
RE109D2-20191204

Tot Ion: 98 Resp: 1135913

Ion Ratio Lower Upper

98 100

100 65.8 53.1 79.7



#62

4-Bromofluorobenzene

Concen: 44.820 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.01 min

Lab File: VX013801.D

Acq: 06 Dec 2019 15:52

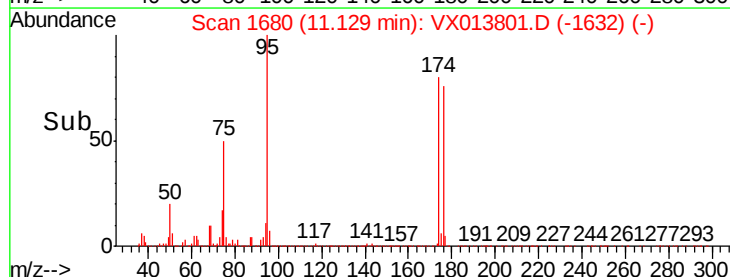
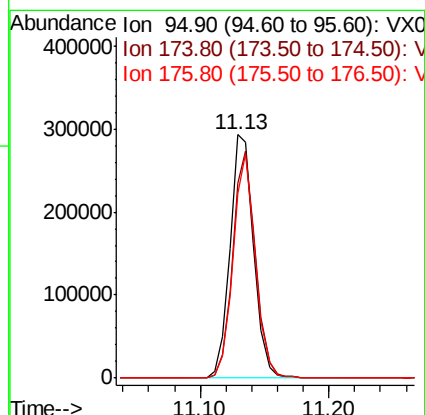
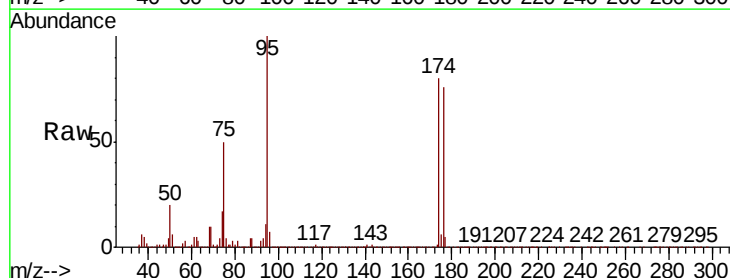
Tgt Ion: 95 Resp: 378032

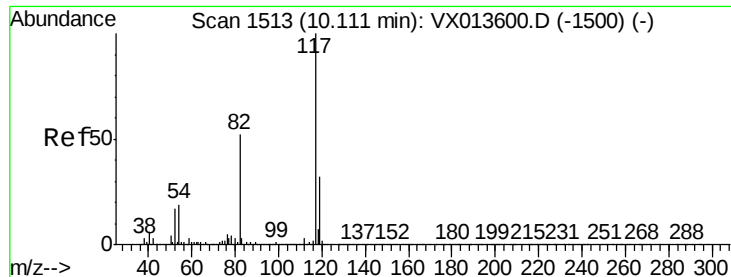
Ion Ratio Lower Upper

95 100

174 89.8 0.0 180.0

176 86.7 0.0 173.6

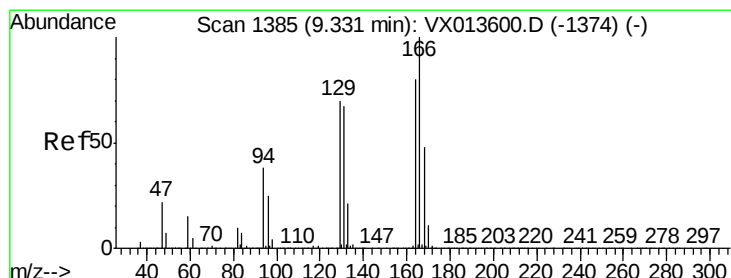
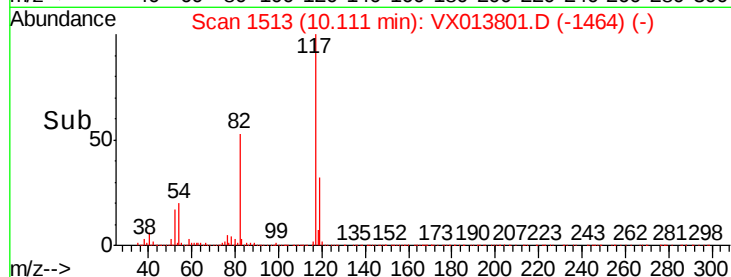
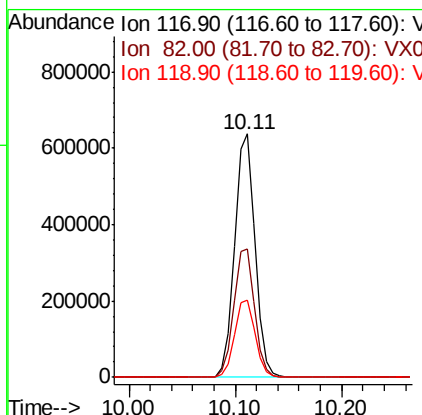
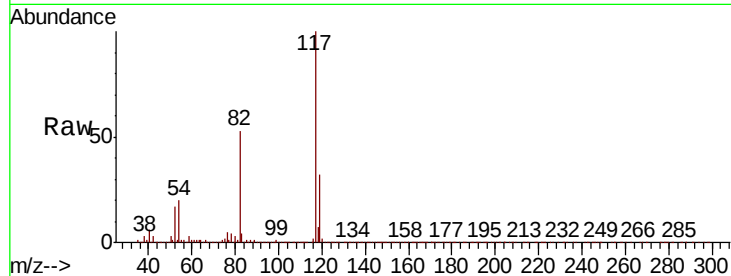




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX013801.D
Acq: 06 Dec 2019 15:52

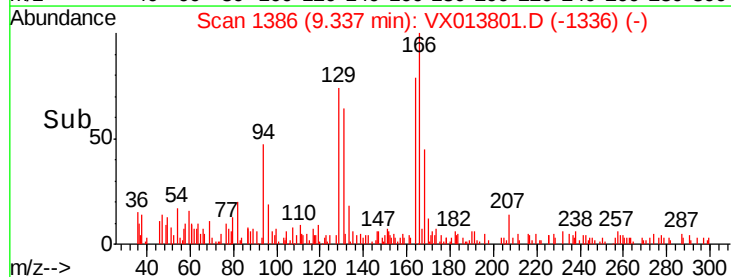
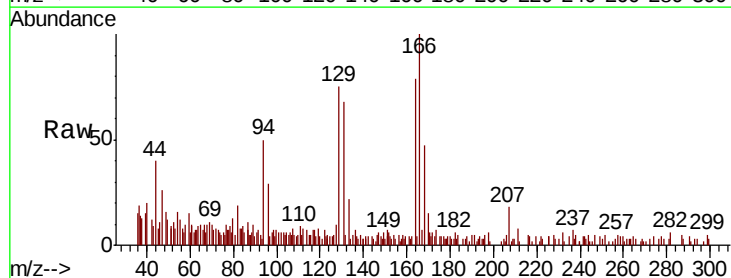
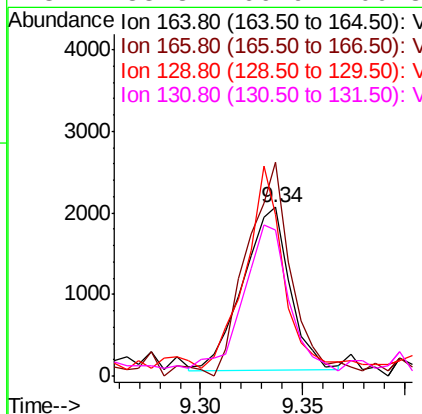
Instrument :
MSVOA_X
ClientSampleId :
RE109D2-20191204

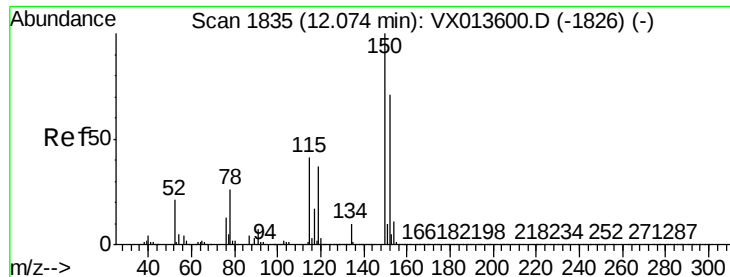
Tot Ion	Ratio	Lower	Upper
117	100		
82	52.7	41.8	62.8
119	31.9	25.8	38.8



#64
Tetrachloroethene
Concen: 0.500 ug/l
RT: 9.34 min Scan# 1386
Delta R.T. 0.01 min
Lab File: VX013801.D
Acq: 06 Dec 2019 15:52

Tgt Ion	Ratio	Lower	Upper
164	100		
166	125.0	99.7	149.5
129	92.0	70.1	105.1
131	88.3	66.9	100.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX013801.D

Acq: 06 Dec 2019 15:52

Instrument :

MSVOA_X

ClientSampleId :

RE109D2-20191204

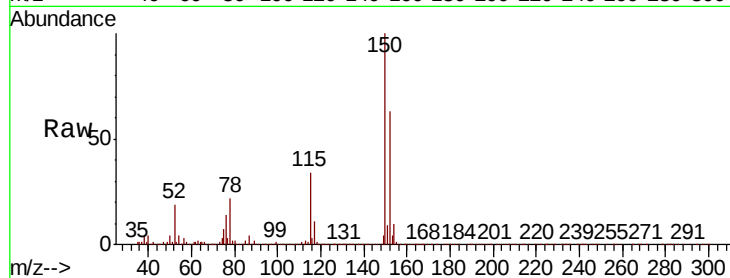
Tot Ion:152 Resp: 373105

Ion Ratio Lower Upper

152 100

115 54.8 38.4 115.1

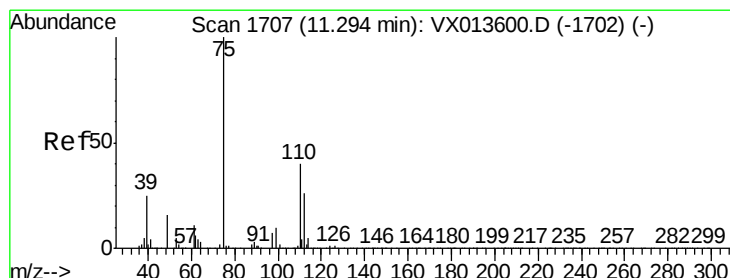
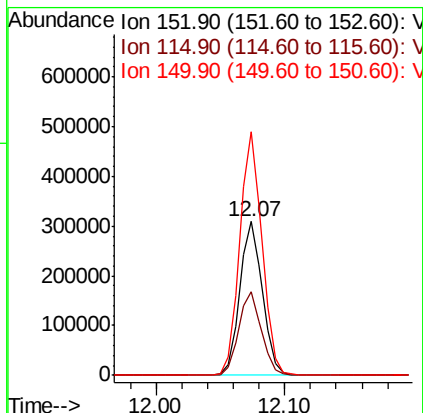
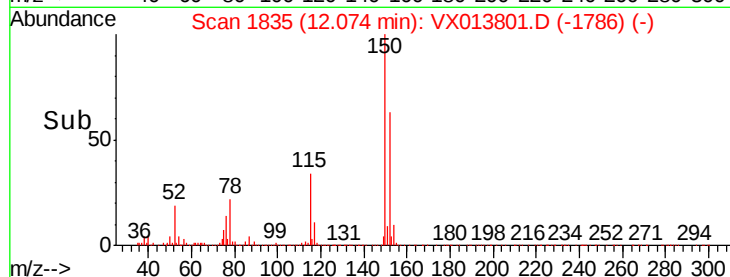
150 156.9 0.0 346.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 22.037 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX013801.D

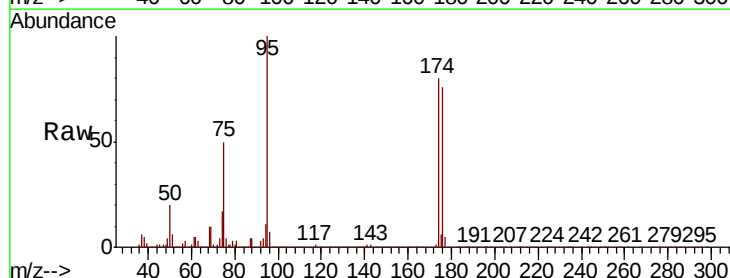
Acq: 06 Dec 2019 15:52

Tgt Ion: 75 Resp: 184934

Ion Ratio Lower Upper

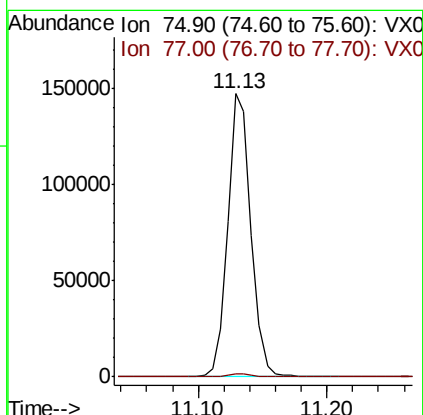
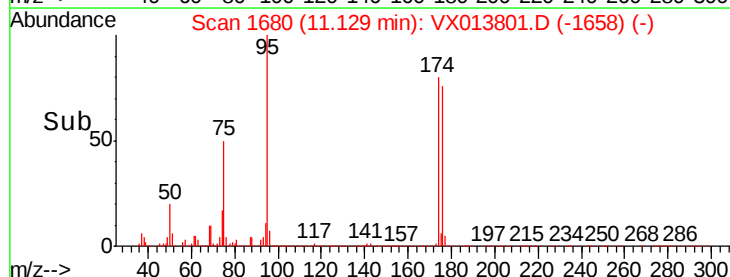
75 100

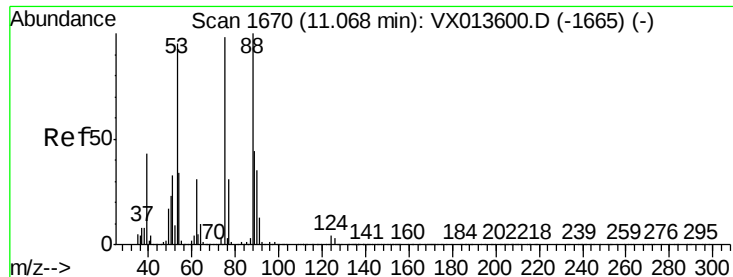
77 1.1 19.1 57.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81
trans-1,4-Dichloro-2-butene
Concen: 60.291 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. 0.06 min
Lab File: VX013801.D
Acq: 06 Dec 2019 15:52

Instrument :
MSVOA_X
ClientSampleId :
RE109D2-20191204

Tot Ion: 75 Resp: 184934
Ion Ratio Lower Upper
75 100
53 0.3 78.2 117.2#
89 0.3 35.4 53.2#

