

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX031419\
 Data File : VX008089.D
 Acq On : 15 Mar 2019 00:13
 Operator : JC/SP
 Sample : K1839-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE109D3-20190307

Quant Time: Mar 15 04:30:15 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X031419W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 15 03:56:35 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	305936	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	470389	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	441168	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	216259	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	153114	49.61	ug/l	0.00
Spiked Amount			Recovery	=	99.22%	
35) Dibromofluoromethane	5.50	113	149052	49.97	ug/l	0.00
Spiked Amount			Recovery	=	99.94%	
50) Toluene-d8	8.71	98	560073	49.37	ug/l	0.00
Spiked Amount			Recovery	=	98.74%	
62) 4-Bromofluorobenzene	11.13	95	205509	50.57	ug/l	0.00
Spiked Amount			Recovery	=	101.14%	

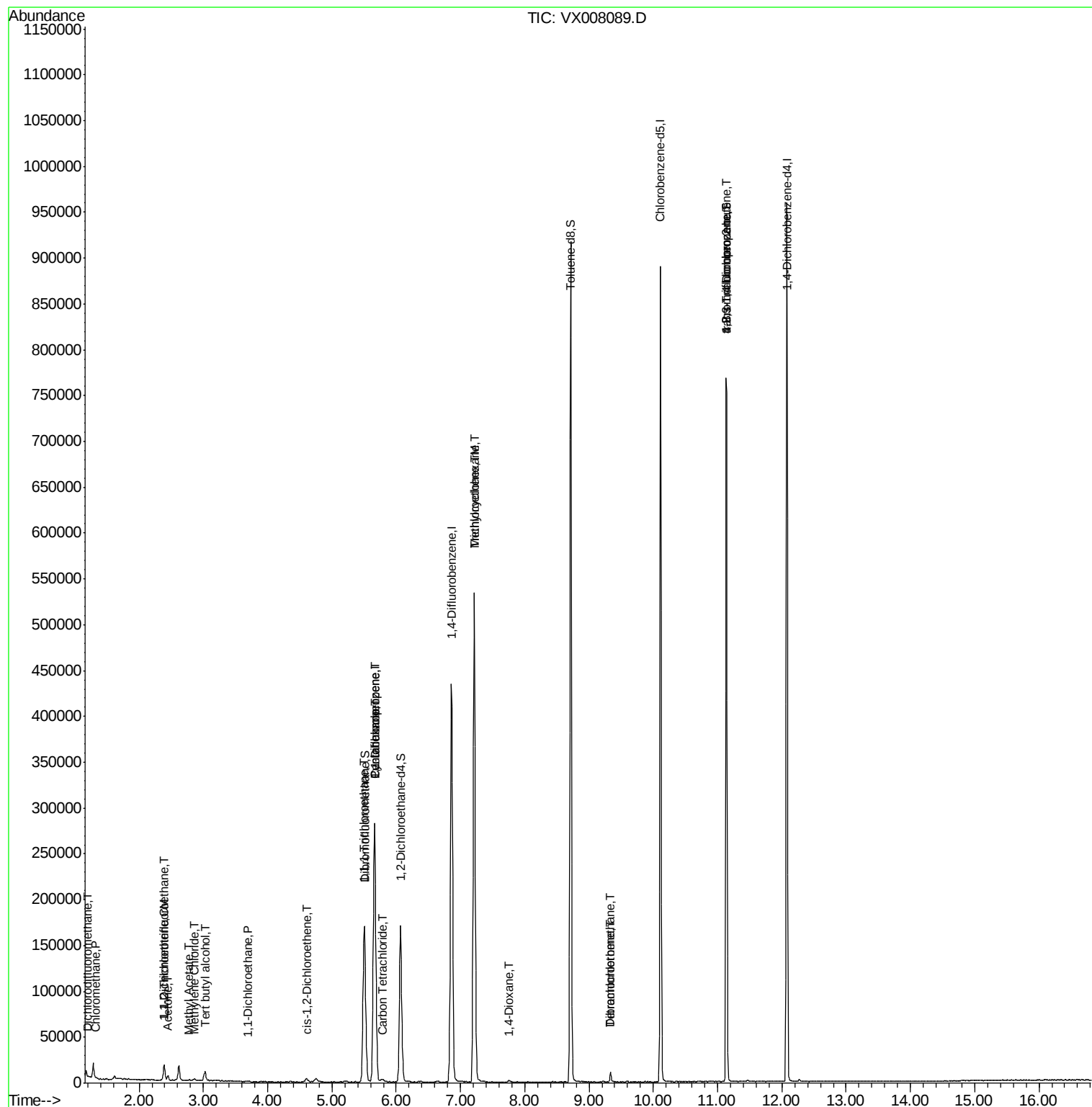
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	552	0.225	ug/l	82
3) Chloromethane	1.33	50	628	0.218	ug/l	91
5) Bromomethane	1.65	94	196	Below Cal	#	80
6) Chloroethane	1.70	64	560	Below Cal	#	43
9) 1,1,2-Trichlorotrifluoroet	2.39	101	6033	2.445	ug/l	96
11) Tert butyl alcohol	3.03	59	6128	10.278	ug/l #	77
12) 1,1-Dichloroethene	2.38	96	1167	0.500	ug/l	87
16) Acetone	2.45	43	5287	3.629	ug/l	99
18) Methyl Acetate	2.78	43	833	0.265	ug/l #	76
20) Methylene Chloride	2.86	84	723	0.278	ug/l #	84
24) 1,1-Dichloroethane	3.70	63	927	0.200	ug/l #	83
27) cis-1,2-Dichloroethene	4.60	96	2295	0.768	ug/l	88
31) Cyclohexane	5.66	56	4465	1.012	ug/l #	1
32) 1,1,1-Trichloroethane	5.49	97	1542	0.390	ug/l #	47
36) 1,1-Dichloropropene	5.66	75	17561	4.538	ug/l #	49
38) Carbon Tetrachloride	5.78	117	2200	0.591	ug/l #	77
39) Methylcyclohexane	7.22	83	2386	0.482	ug/l #	1
44) Trichloroethene	7.21	130	223847	65.426	ug/l	98
49) 1,4-Dioxane	7.76	88	988	13.095	ug/l	97
60) Dibromochloromethane	9.34	129	2144	0.678	ug/l #	11
64) Tetrachloroethene	9.34	164	2276	0.637	ug/l	95
76) 1,2,3-Trichloropropane	11.13	75	92569	24.647	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	92569	70.137	ug/l #	11

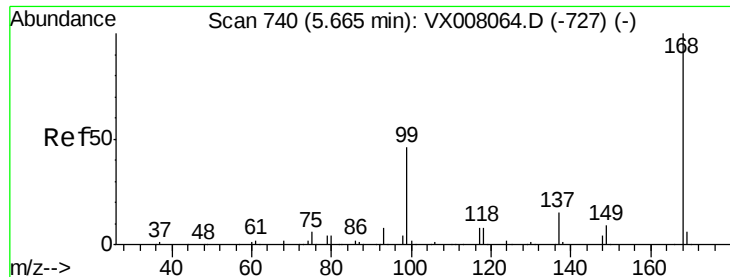
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Mar 15 03:56:35 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX008089.D

Acq: 15 Mar 2019 00:13

Instrument :

MSVOA_X

ClientSampleId :

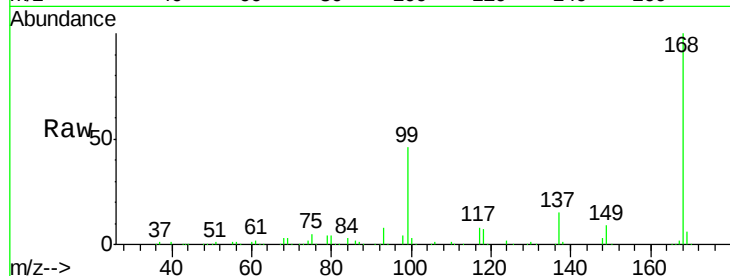
RE109D3-20190307

Tot Ion:168 Resp: 305936

Ion Ratio Lower Upper

168 100

99 46.0 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

120000

100000

80000

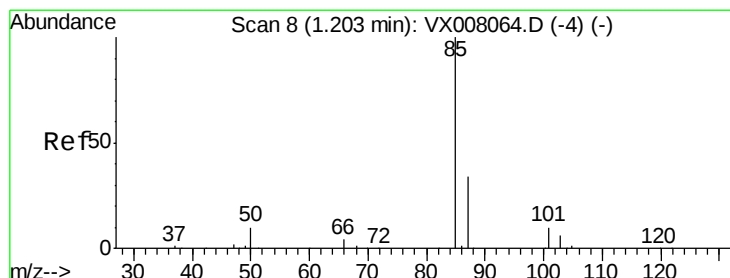
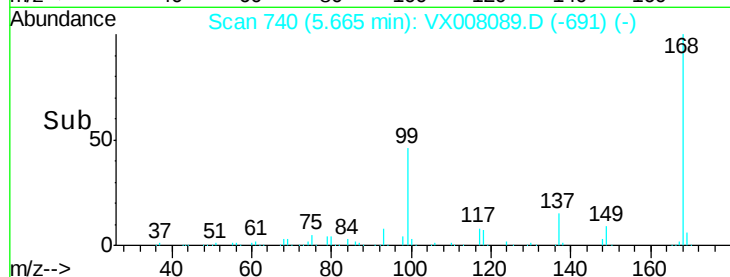
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.225 ug/l

RT: 1.20 min Scan# 8

Delta R.T. -0.00 min

Lab File: VX008089.D

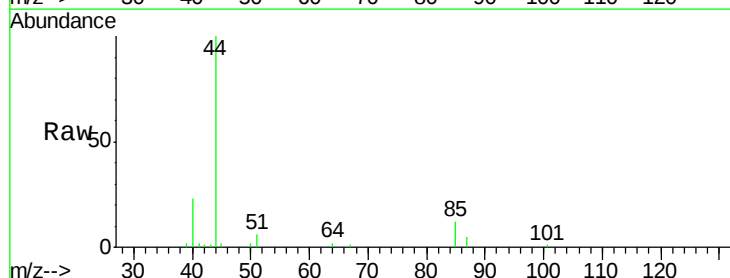
Acq: 15 Mar 2019 00:13

Tgt Ion: 85 Resp: 552

Ion Ratio Lower Upper

85 100

87 42.7 16.4 49.1



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

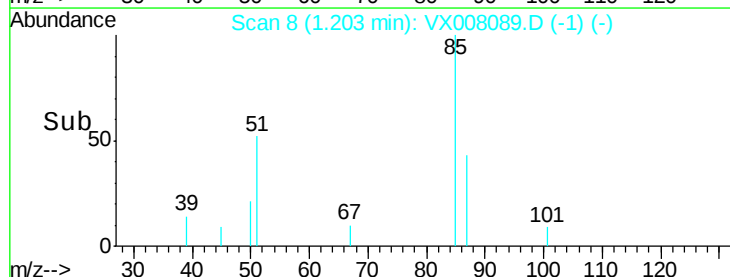
600

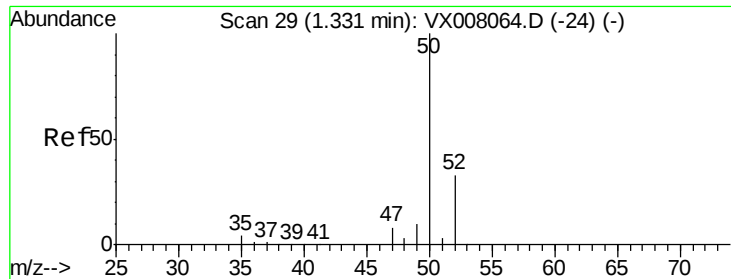
400

200

0

Time--> 1.20 1.25





#3

Chloromethane

Concen: 0.218 ug/l

RT: 1.33 min Scan# 29

Delta R.T. -0.00 min

Lab File: VX008089.D

Acq: 15 Mar 2019 00:13

Instrument :

MSVOA_X

ClientSampleId :

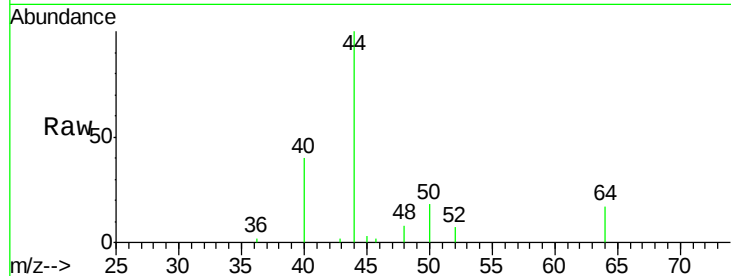
RE109D3-20190307

Tot Ion: 50 Resp: 628

Ion Ratio Lower Upper

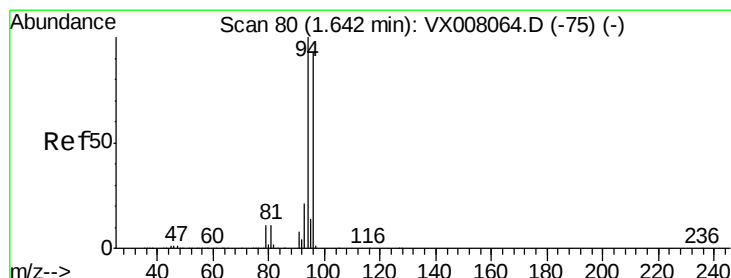
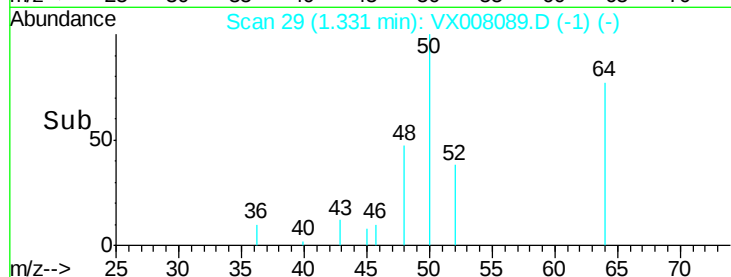
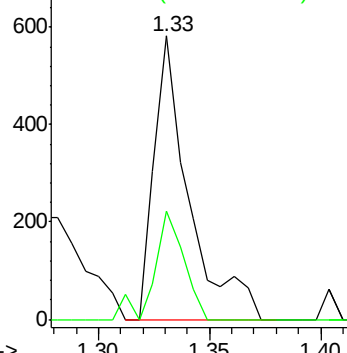
50 100

52 38.1 26.5 39.7



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX008089.D

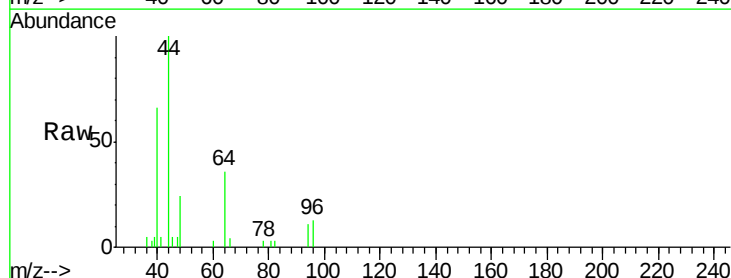
Acq: 15 Mar 2019 00:13

Tgt Ion: 94 Resp: 196

Ion Ratio Lower Upper

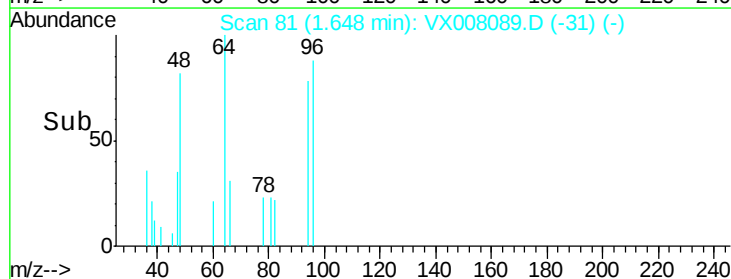
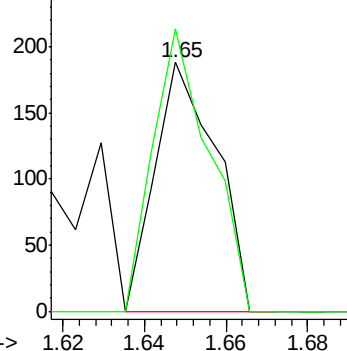
94 100

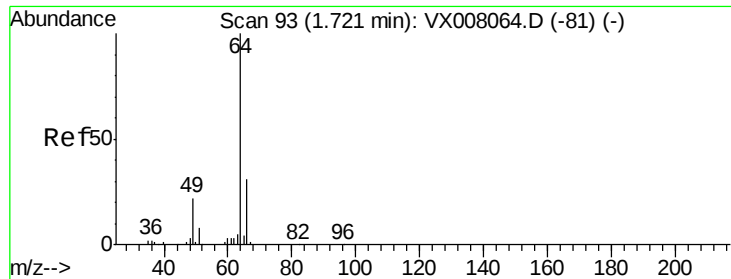
96 113.8 75.5 113.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: Below Cal

RT: 1.70 min Scan# 89

Delta R.T. -0.02 min

Lab File: VX008089.D

Acq: 15 Mar 2019 00:13

Instrument :

MSVOA_X

ClientSampleId :

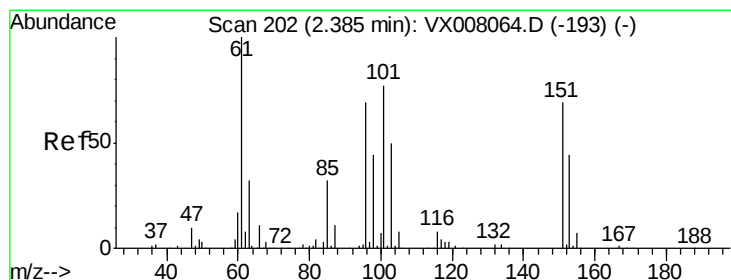
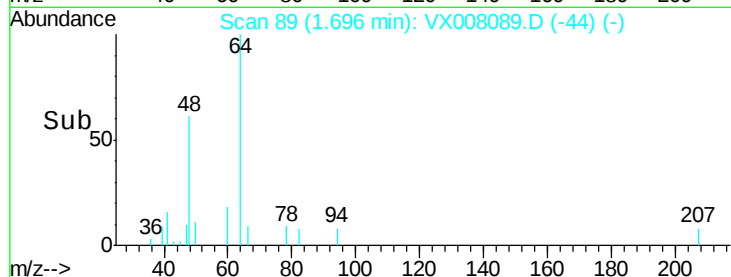
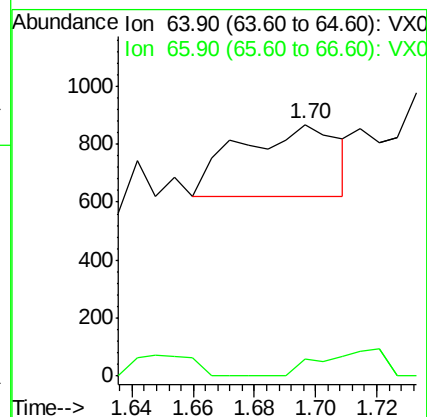
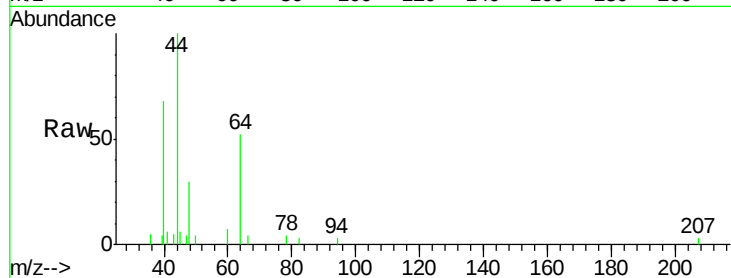
RE109D3-20190307

Tot Ion: 64 Resp: 560

Ion Ratio Lower Upper

64 100

66 0.0 25.2 37.8#



#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.445 ug/l

RT: 2.39 min Scan# 203

Delta R.T. 0.01 min

Lab File: VX008089.D

Acq: 15 Mar 2019 00:13

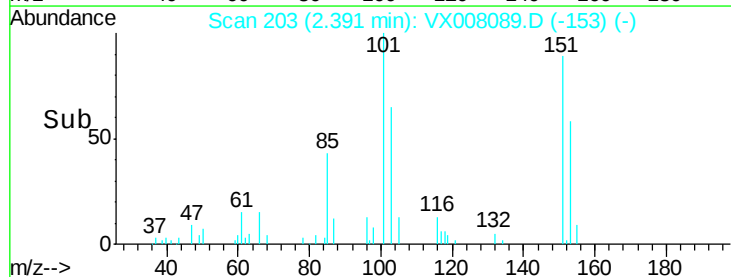
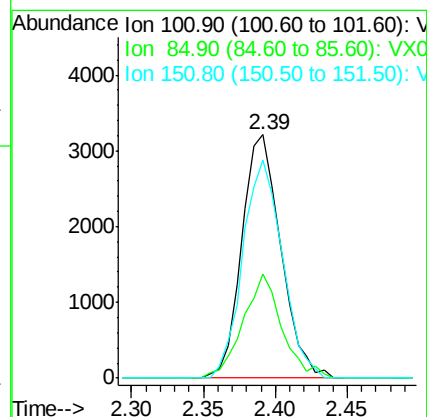
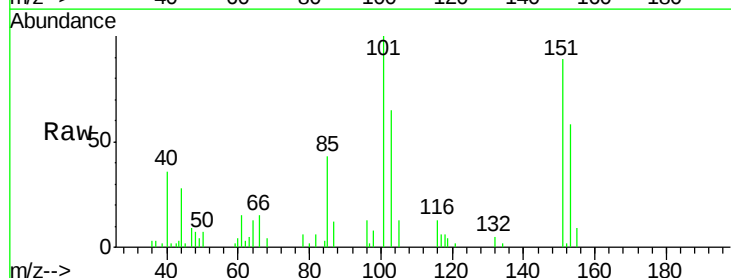
Tgt Ion:101 Resp: 6033

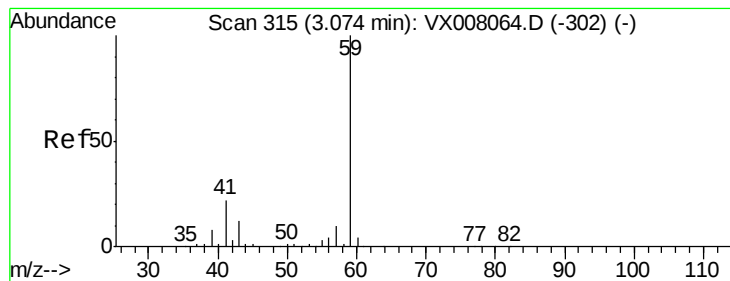
Ion Ratio Lower Upper

101 100

85 42.8 33.8 50.6

151 91.2 69.1 103.7



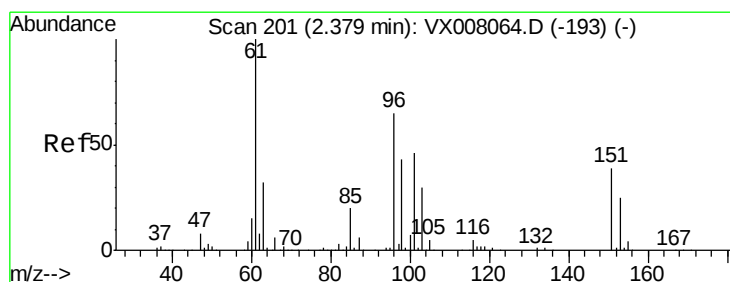
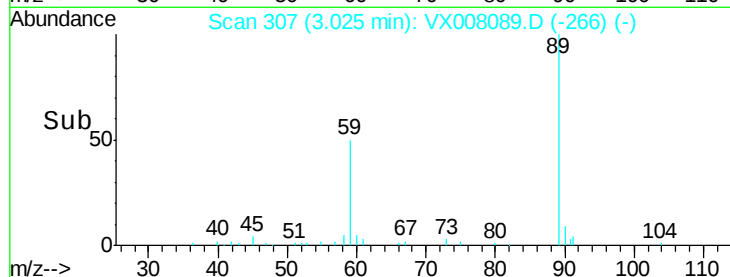
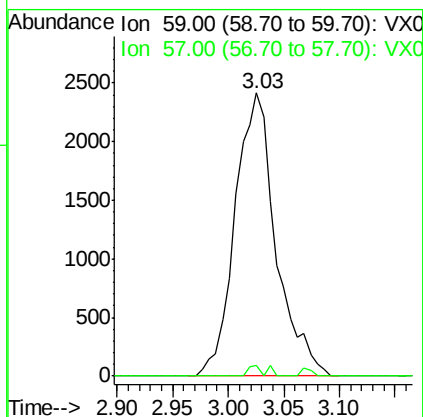
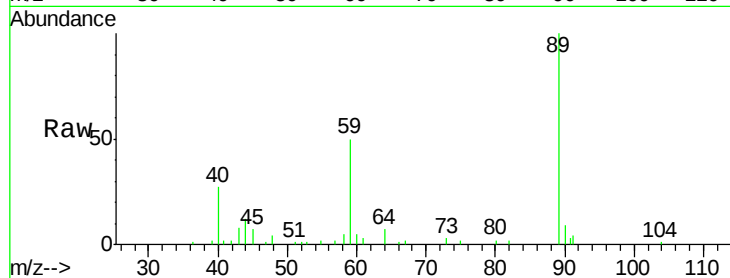


#11

Tert butyl alcohol
 Concen: 10.278 ug/l
 RT: 3.03 min Scan# 307
 Delta R.T. -0.05 min
 Lab File: VX008089.D
 Acq: 15 Mar 2019 00:13

Instrument :
 MSVOA_X
 ClientSampleId :
 RE109D3-20190307

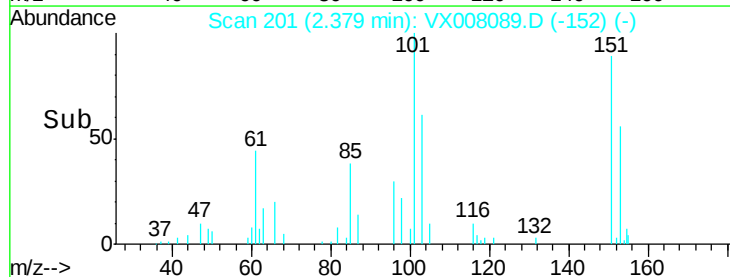
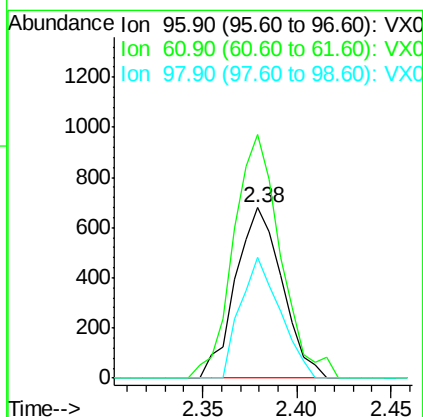
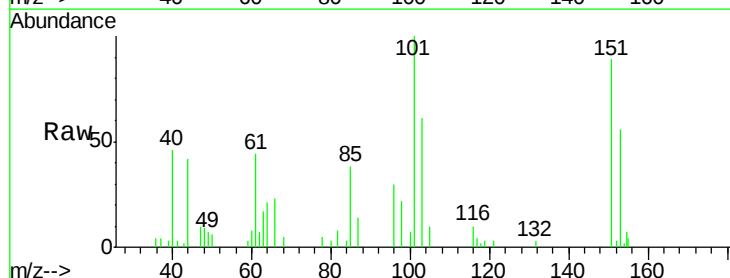
Tot Ion: 59 Resp: 6128
 Ion Ratio Lower Upper
 59 100
 57 1.6 8.2 12.2#

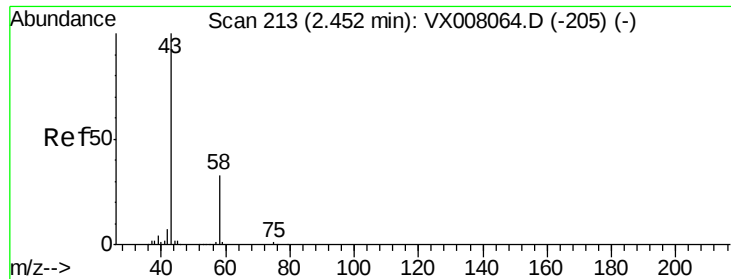


#12

1,1-Dichloroethene
 Concen: 0.500 ug/l
 RT: 2.38 min Scan# 201
 Delta R.T. -0.00 min
 Lab File: VX008089.D
 Acq: 15 Mar 2019 00:13

Tgt Ion: 96 Resp: 1167
 Ion Ratio Lower Upper
 96 100
 61 143.2 129.8 194.6
 98 71.1 51.0 76.6





#16

Acetone

Concen: 3.629 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.01 min

Lab File: VX008089.D

Acq: 15 Mar 2019 00:13

Instrument :

MSVOA_X

ClientSampleId :

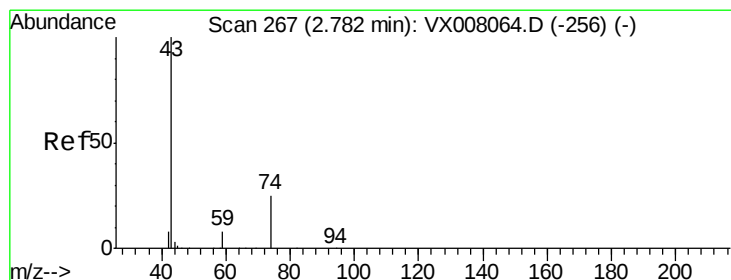
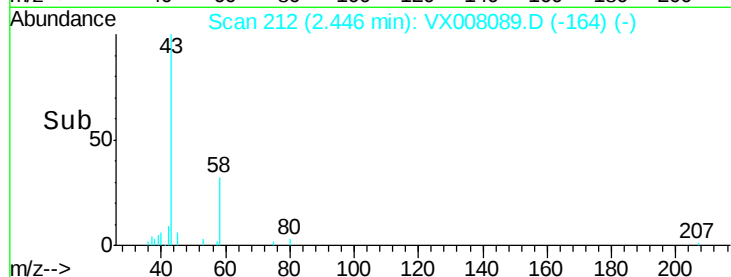
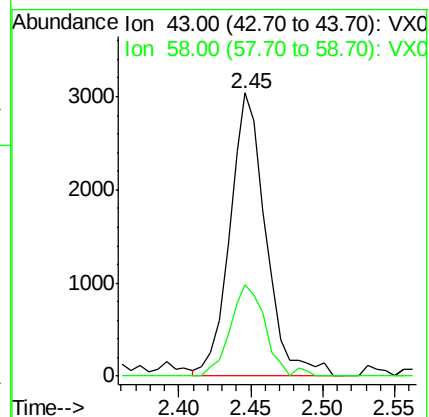
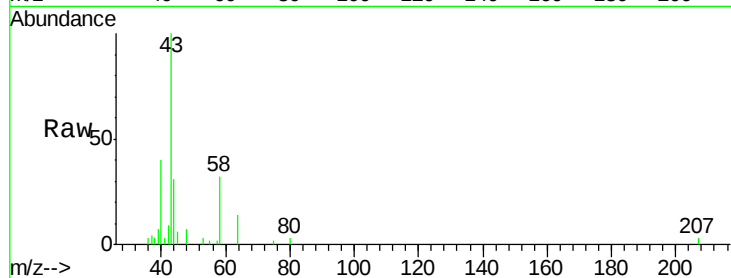
RE109D3-20190307

Tot Ion: 43 Resp: 5287

Ion Ratio Lower Upper

43 100

58 32.5 25.5 38.3



#18

Methyl Acetate

Concen: 0.265 ug/l

RT: 2.78 min Scan# 266

Delta R.T. -0.01 min

Lab File: VX008089.D

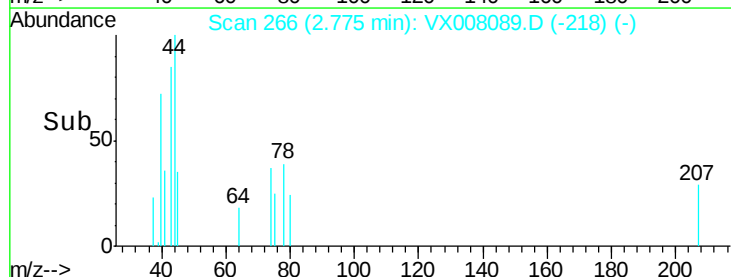
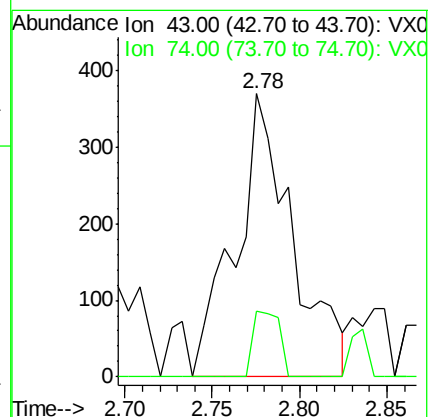
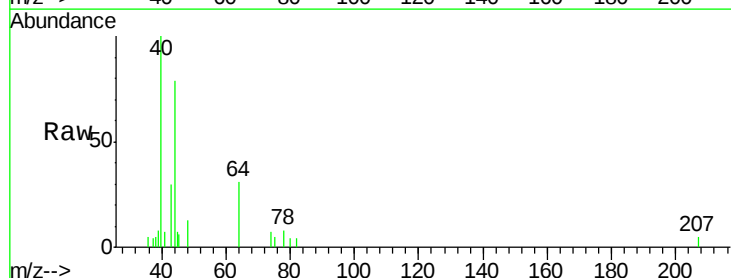
Acq: 15 Mar 2019 00:13

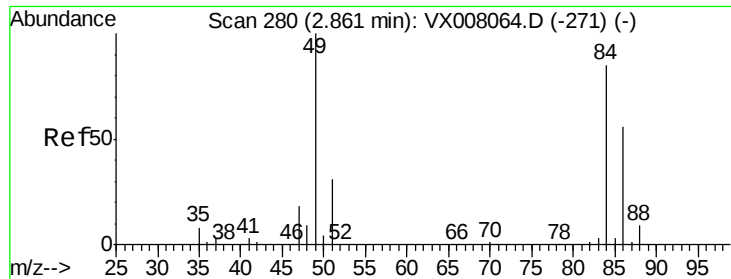
Tgt Ion: 43 Resp: 833

Ion Ratio Lower Upper

43 100

74 10.8 17.8 26.6#

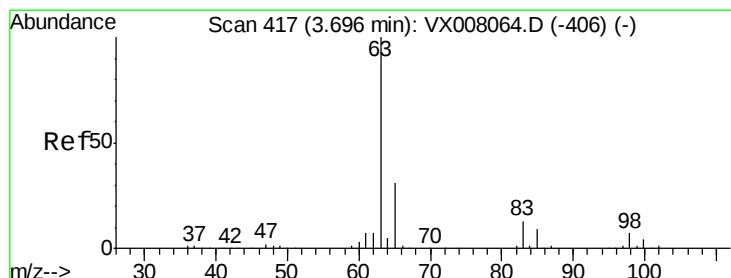
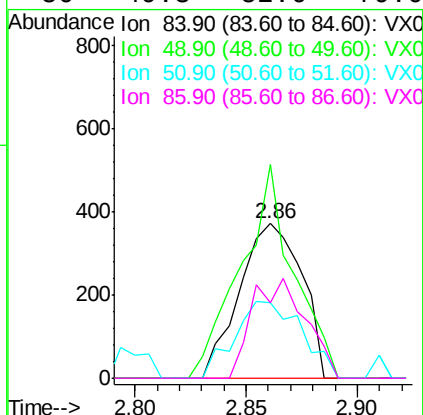
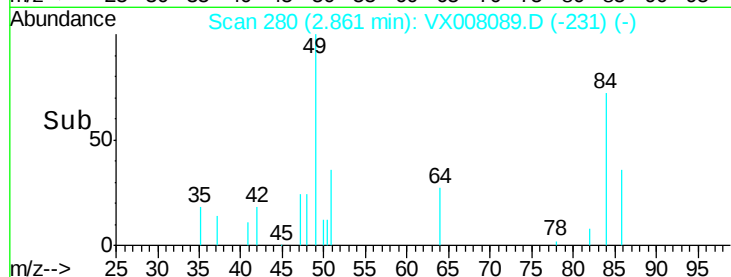
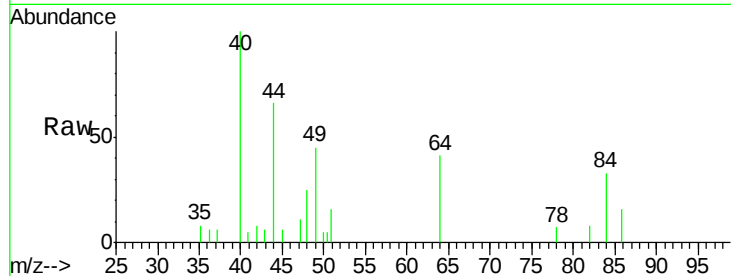




#20
Methvlene Chloride
Concen: 0.278 ug/l
RT: 2.86 min Scan# 280
Delta R.T. -0.00 min
Lab File: VX008089.D
Acq: 15 Mar 2019 00:13

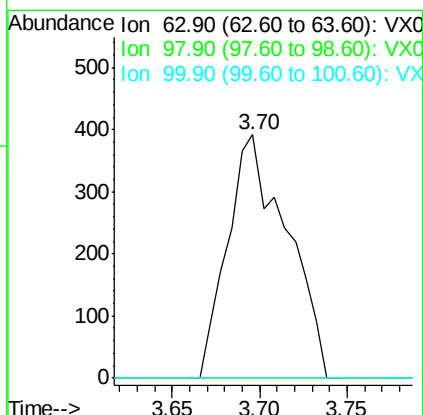
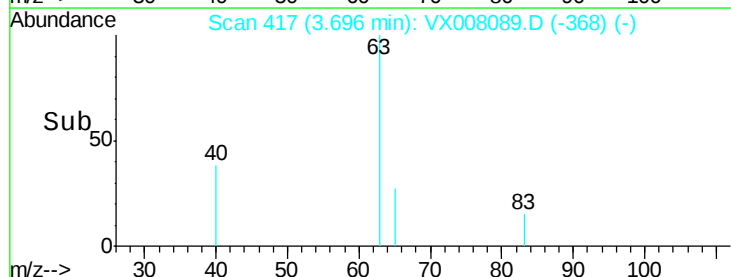
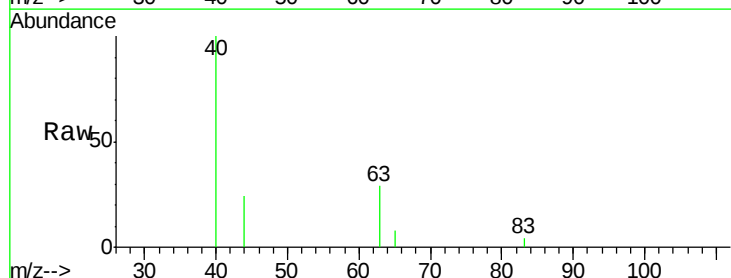
Instrument :
MSVOA_X
ClientSampleId :
RE109D3-20190307

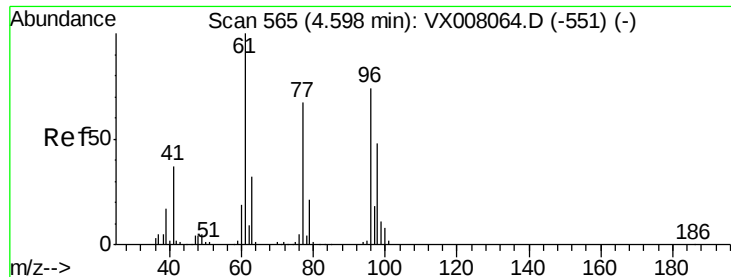
Tot Ion: 84 Resp: 723
Ion Ratio Lower Upper
84 100
49 138.3 99.3 148.9
51 49.3 31.3 46.9#
86 49.3 52.6 79.0#



#24
1,1-Dichloroethane
Concen: 0.200 ug/l
RT: 3.70 min Scan# 417
Delta R.T. -0.00 min
Lab File: VX008089.D
Acq: 15 Mar 2019 00:13

Tgt Ion: 63 Resp: 927
Ion Ratio Lower Upper
63 100
98 0.0 3.3 9.8#
100 0.0 2.3 6.8#



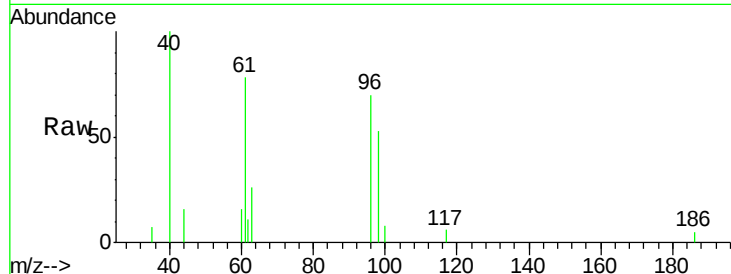


#27

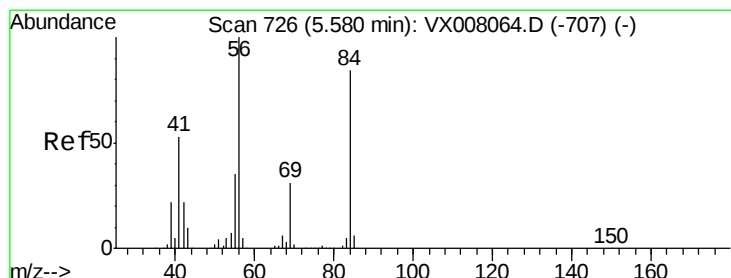
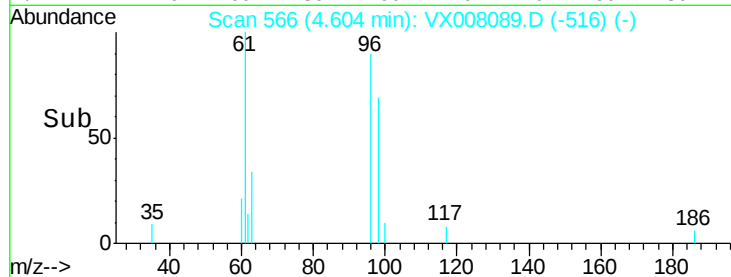
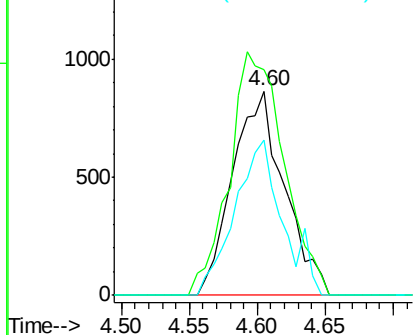
cis-1,2-Dichloroethene
 Concen: 0.768 ug/l
 RT: 4.60 min Scan# 566
 Delta R.T. 0.01 min
 Lab File: VX008089.D
 Acq: 15 Mar 2019 00:13

Instrument :
 MSVOA_X
 ClientSampleId :
 RE109D3-20190307

Tot Ion: 96 Resp: 2295
 Ion Ratio Lower Upper
 96 100
 61 125.9 0.0 288.0
 98 70.4 0.0 129.0



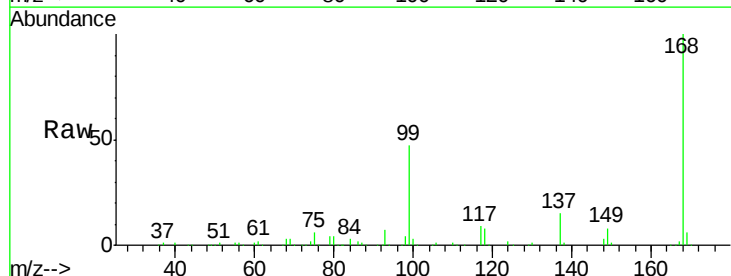
Abundance Ion 95.90 (95.60 to 96.60): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0



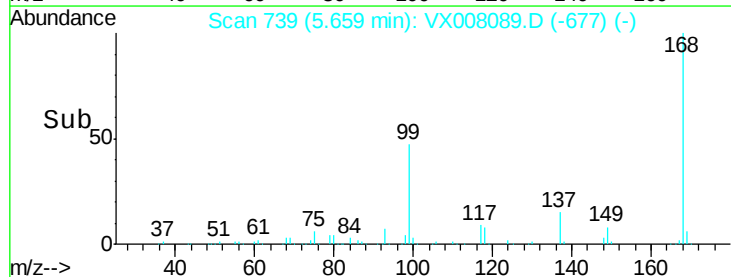
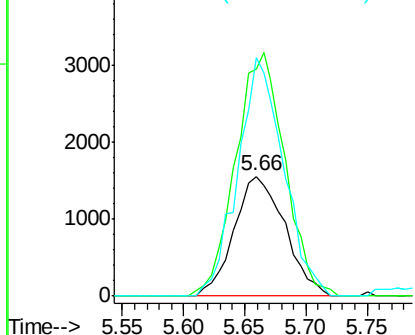
#31

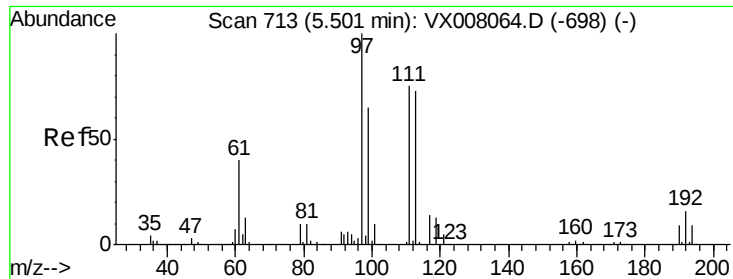
Cyclohexane
 Concen: 1.012 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. 0.08 min
 Lab File: VX008089.D
 Acq: 15 Mar 2019 00:13

Tgt Ion: 56 Resp: 4465
 Ion Ratio Lower Upper
 56 100
 69 189.3 24.0 36.0#
 84 198.5 65.3 97.9#



Abundance Ion 56.00 (55.70 to 56.70): VX0
 Ion 69.00 (68.70 to 69.70): VX0
 Ion 84.00 (83.70 to 84.70): VX0





#32

1,1,1-Trichloroethane

Concen: 0.390 ug/l

RT: 5.49 min Scan# 712

Delta R.T. -0.01 min

Lab File: VX008089.D

Acq: 15 Mar 2019 00:13

Instrument :

MSVOA_X

ClientSampleId :

RE109D3-20190307

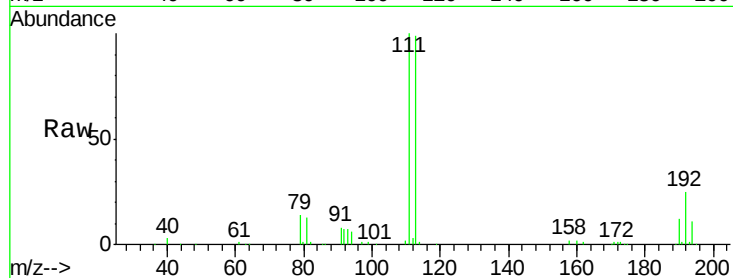
Tot Ion: 97 Resp: 1542

Ion Ratio Lower Upper

97 100

99 0.0 52.2 78.2#

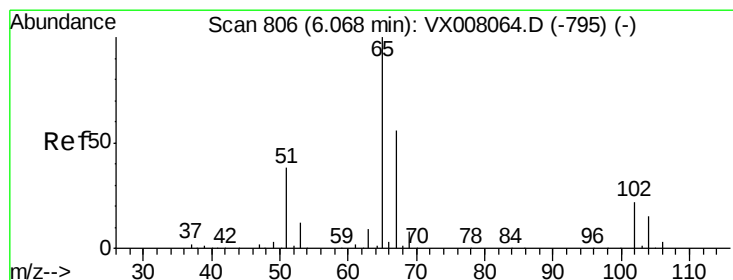
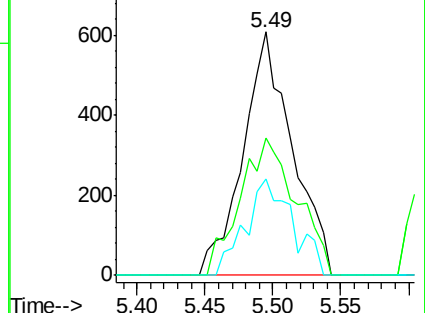
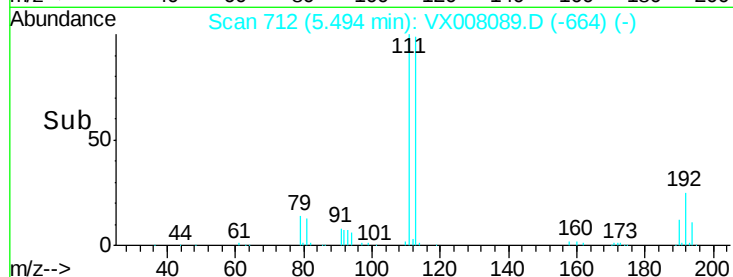
61 38.0 34.9 52.3



Abundance Ion 96.90 (96.60 to 97.60): VX0

Ion 98.90 (98.60 to 99.60): VX0

Ion 60.90 (60.60 to 61.60): VX0



#33

1,2-Dichloroethane-d4

Concen: 49.614 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX008089.D

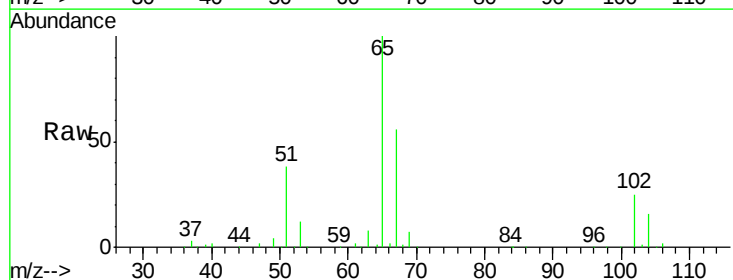
Acq: 15 Mar 2019 00:13

Tgt Ion: 65 Resp: 153114

Ion Ratio Lower Upper

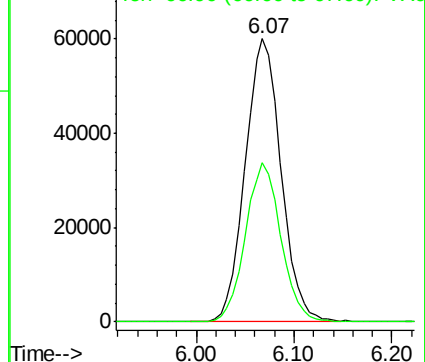
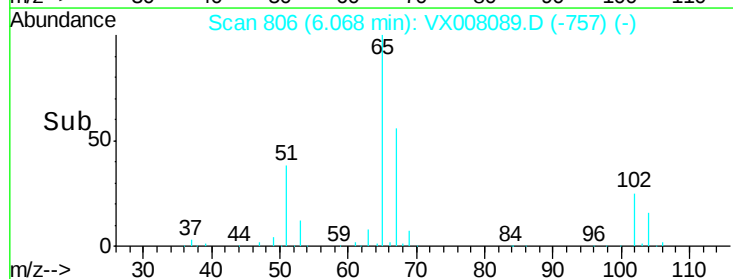
65 100

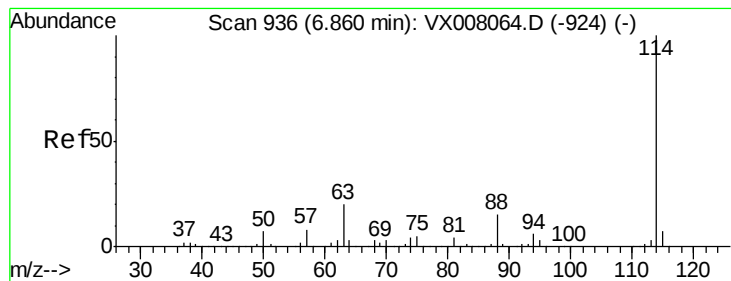
67 55.6 0.0 110.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX008089.D

Acq: 15 Mar 2019 00:13

Instrument :

MSVOA_X

ClientSampleId :

RE109D3-20190307

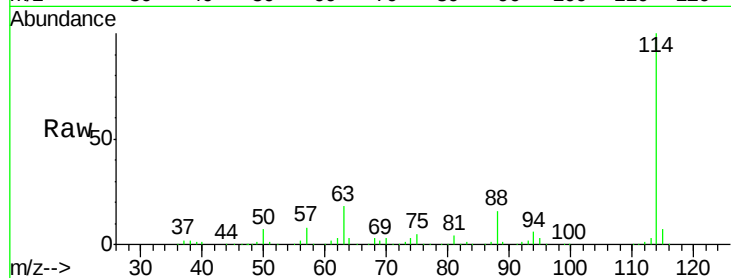
Tot Ion:114 Resp: 470389

Ion Ratio Lower Upper

114 100

63 18.3 0.0 39.8

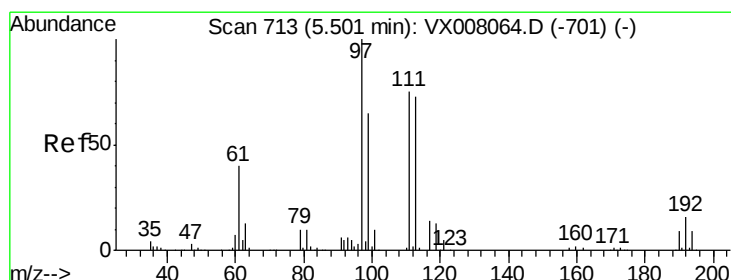
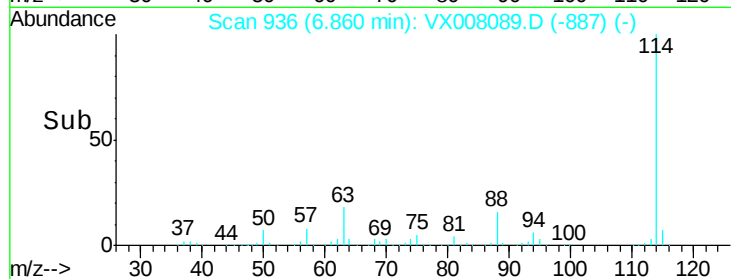
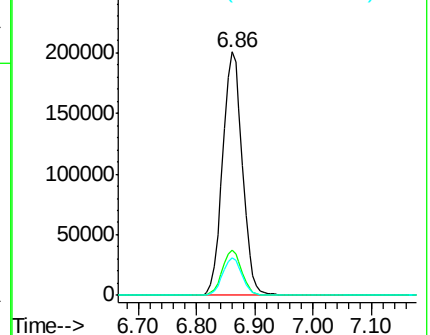
88 15.5 0.0 31.4



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: 49.968 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX008089.D

Acq: 15 Mar 2019 00:13

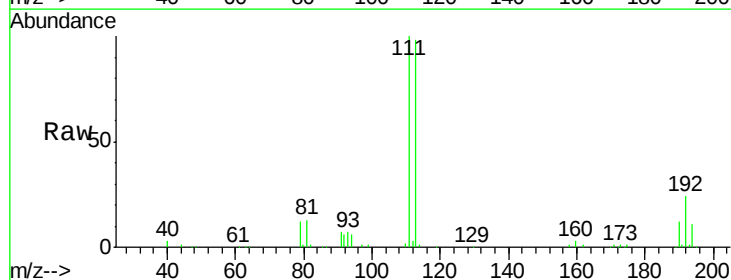
Tgt Ion:113 Resp: 149052

Ion Ratio Lower Upper

113 100

111 101.5 81.4 122.0

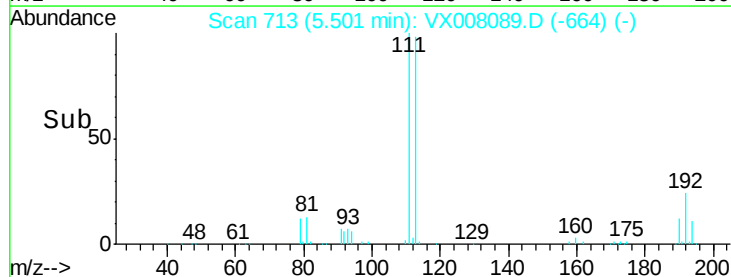
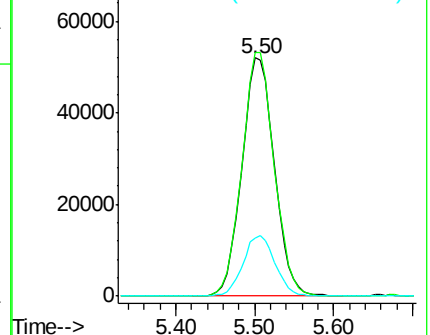
192 25.0 19.4 29.0

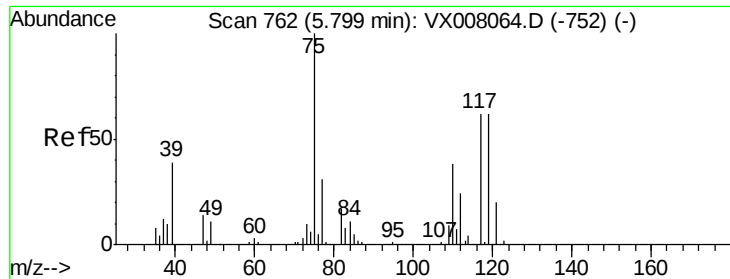


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

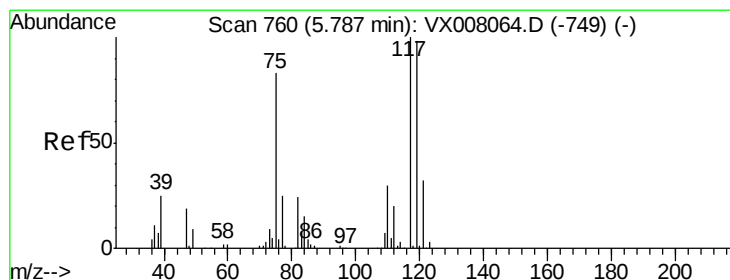
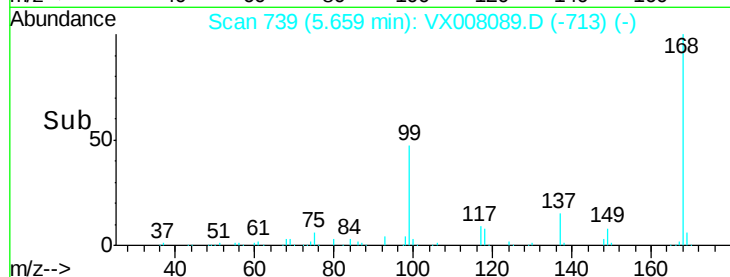
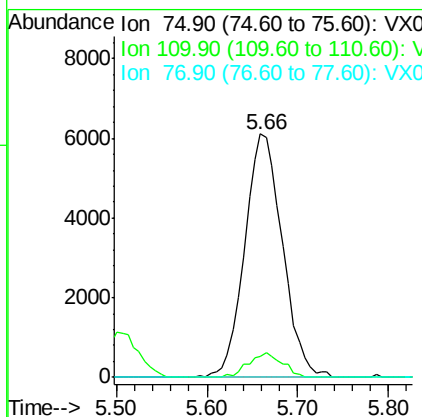
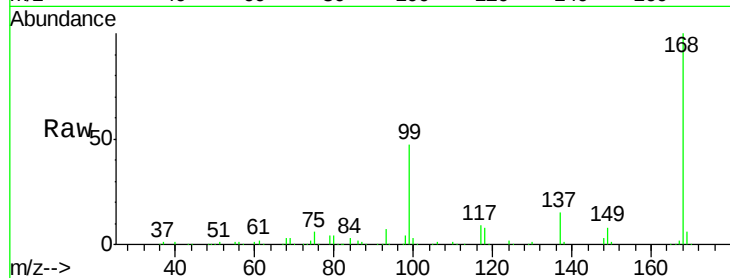




#36
 1,1-Dichloropropene
 Concen: 4.538 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX008089.D
 Acq: 15 Mar 2019 00:13

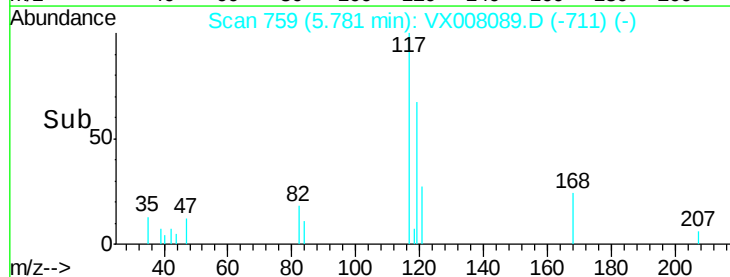
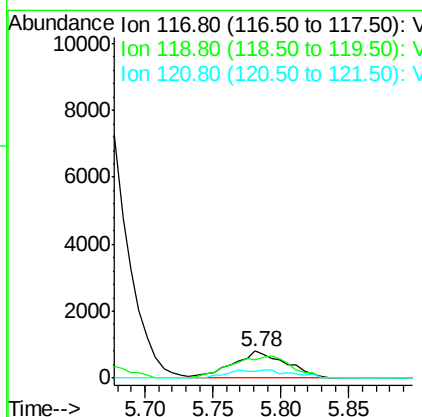
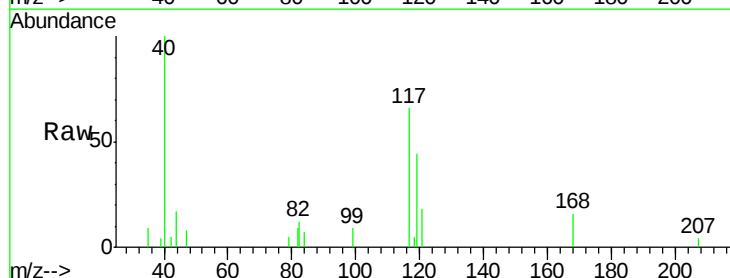
Instrument :
 MSVOA_X
 ClientSampleId :
 RE109D3-20190307

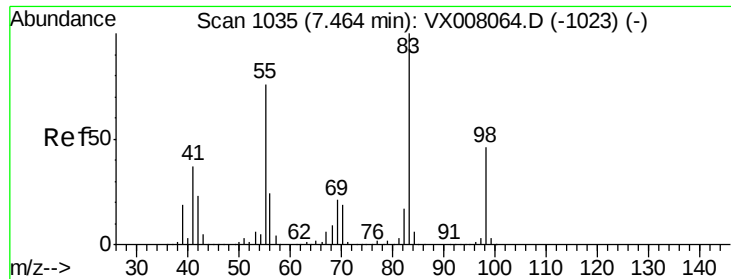
Tot Ion: 75 Resp: 17561
 Ion Ratio Lower Upper
 75 100
 110 9.2 18.4 55.0#
 77 0.0 25.0 37.4#



#38
 Carbon Tetrachloride
 Concen: 0.591 ug/l
 RT: 5.78 min Scan# 759
 Delta R.T. -0.01 min
 Lab File: VX008089.D
 Acq: 15 Mar 2019 00:13

Tgt Ion: 117 Resp: 2200
 Ion Ratio Lower Upper
 117 100
 119 67.3 76.2 114.2#
 121 27.0 24.6 36.8

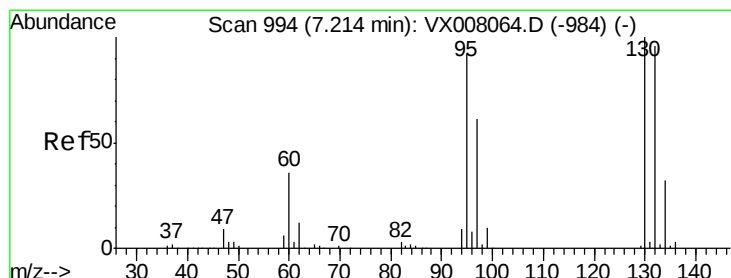
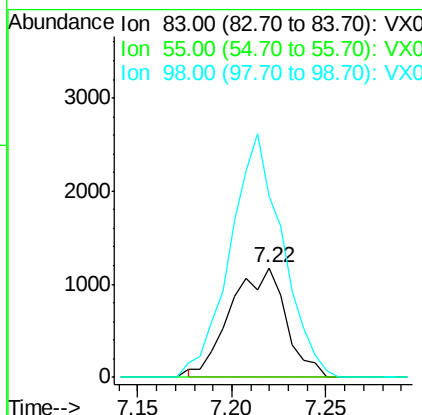
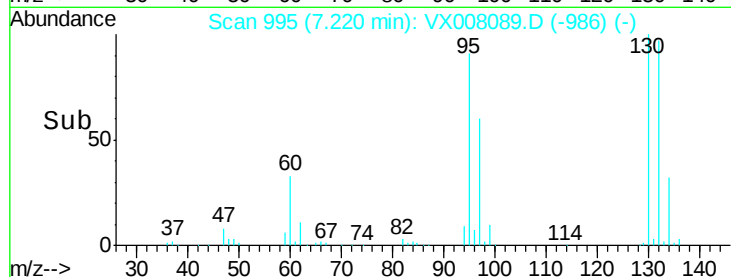
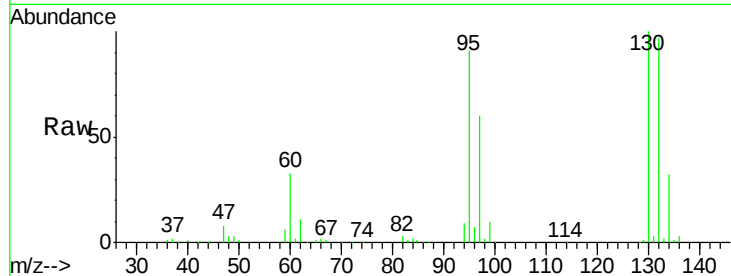




#39
Methvlcvclohexane
Concen: 0.482 ug/l
RT: 7.22 min Scan# 995
Delta R.T. -0.24 min
Lab File: VX008089.D
Acq: 15 Mar 2019 00:13

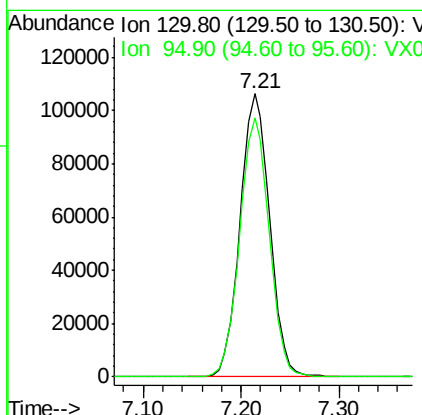
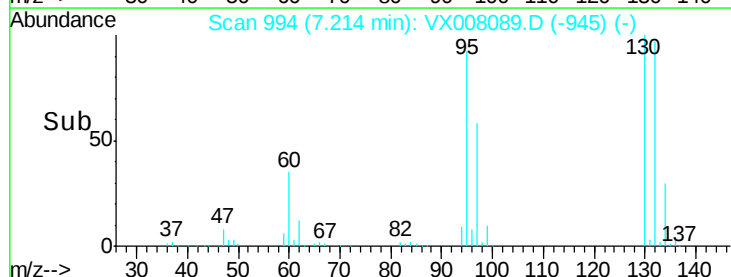
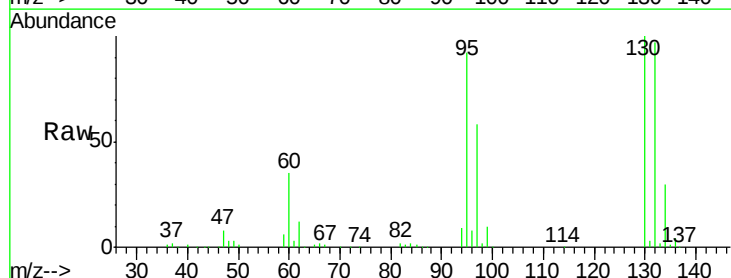
Instrument :
MSVOA_X
ClientSampleId :
RE109D3-20190307

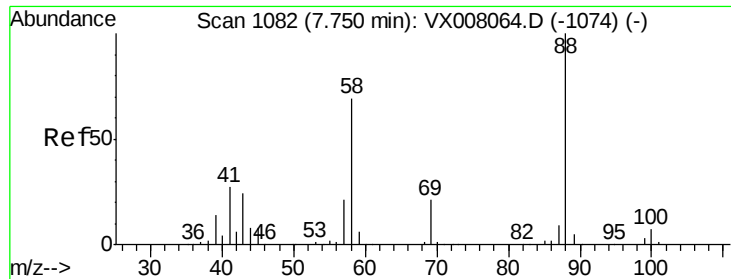
Tot Ion: 83 Resp: 2386
Ion Ratio Lower Upper
83 100
55 0.0 60.4 90.6#
98 165.6 36.5 54.7#



#44
Trichloroethene
Concen: 65.426 ug/l
RT: 7.21 min Scan# 994
Delta R.T. -0.00 min
Lab File: VX008089.D
Acq: 15 Mar 2019 00:13

Tgt Ion:130 Resp: 223847
Ion Ratio Lower Upper
130 100
95 91.7 0.0 188.0

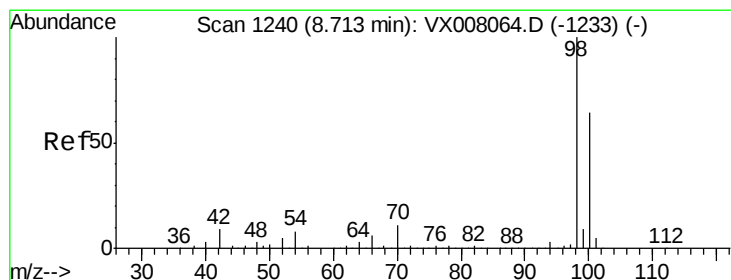
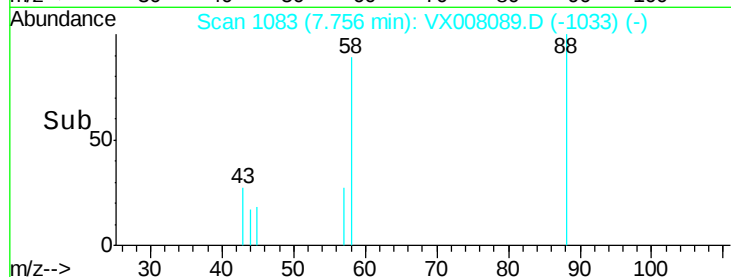
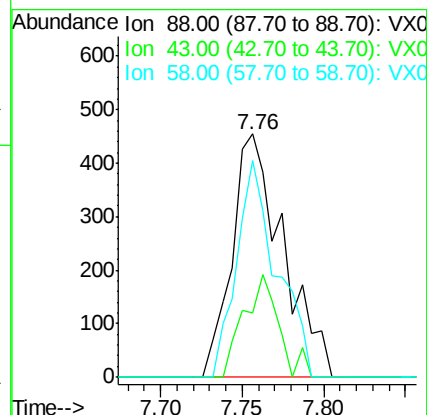
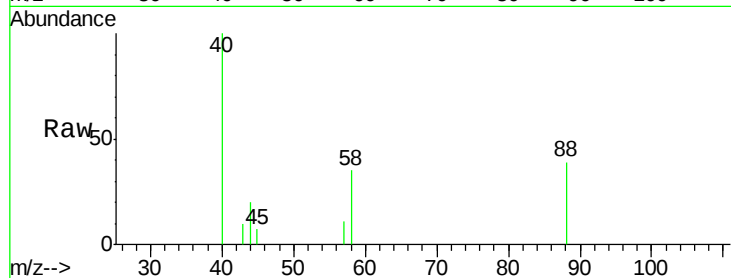




#49
1,4-Dioxane
Concen: 13.095 ug/l
RT: 7.76 min Scan# 1083
Delta R.T. 0.01 min
Lab File: VX008089.D
Acq: 15 Mar 2019 00:13

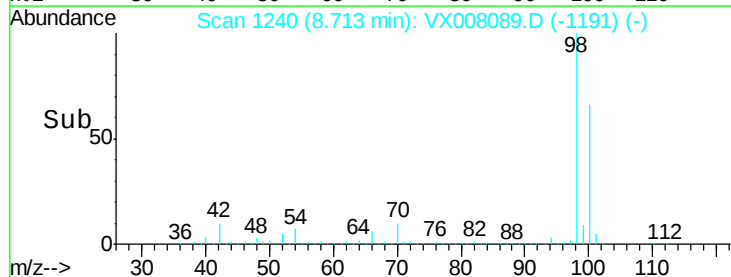
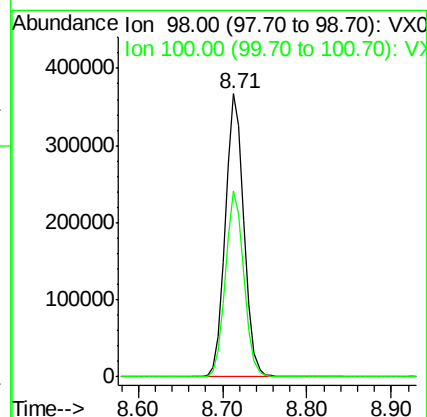
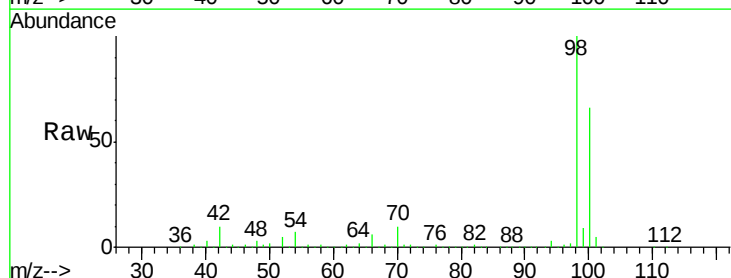
Instrument :
MSVOA_X
ClientSampleId :
RE109D3-20190307

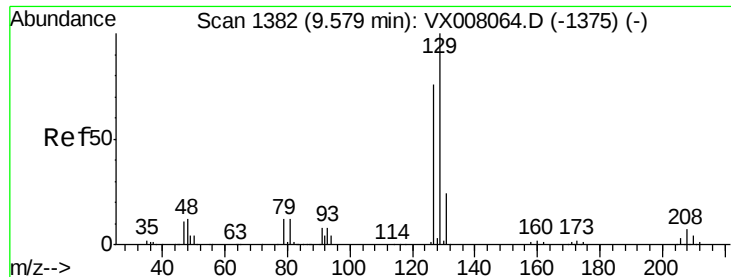
Tot Ion: 88 Resp: 988
Ion Ratio Lower Upper
88 100
43 28.9 25.1 37.7
58 70.0 57.8 86.6



#50
Toluene-d8
Concen: 49.367 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX008089.D
Acq: 15 Mar 2019 00:13

Tgt Ion: 98 Resp: 560073
Ion Ratio Lower Upper
98 100
100 65.5 51.7 77.5





#60

Dibromochloromethane

Concen: 0.678 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX008089.D

Acq: 15 Mar 2019 00:13

Instrument :

MSVOA_X

ClientSampleId :

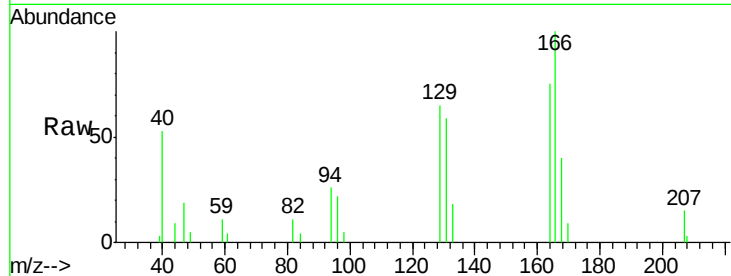
RE109D3-20190307

Tot Ion:129 Resp: 2144

Ion Ratio Lower Upper

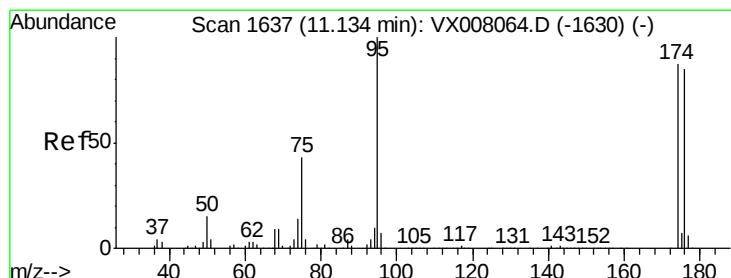
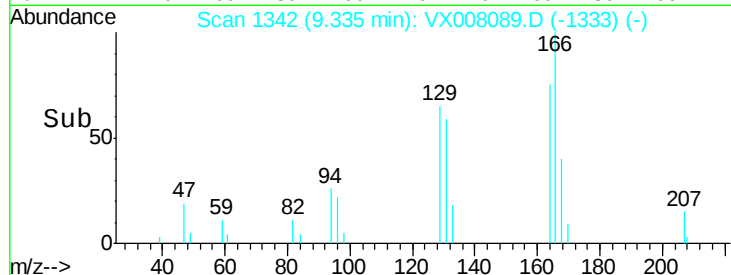
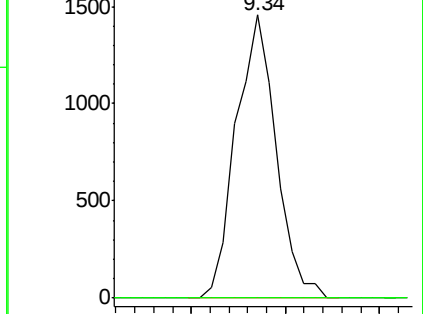
129 100

127 0.0 38.3 114.8#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 50.566 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX008089.D

Acq: 15 Mar 2019 00:13

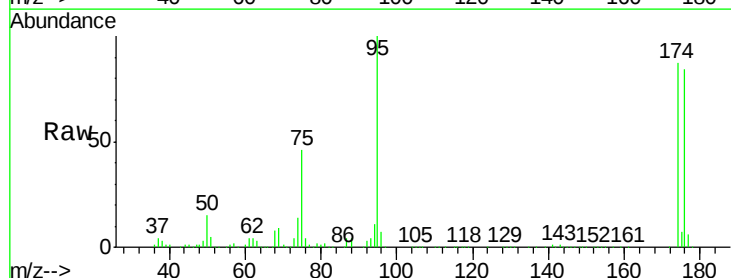
Tgt Ion: 95 Resp: 205509

Ion Ratio Lower Upper

95 100

174 95.8 0.0 182.8

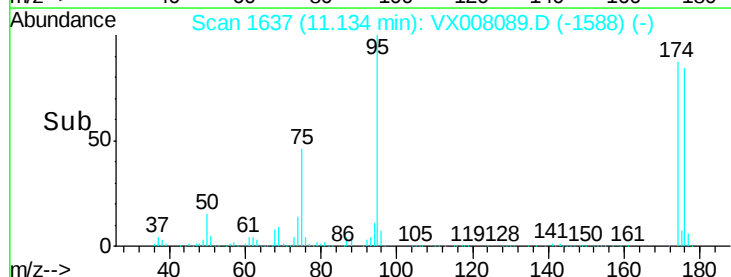
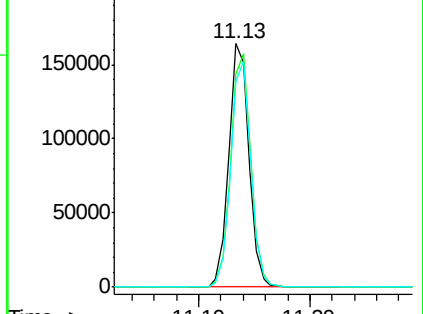
176 92.5 0.0 178.0

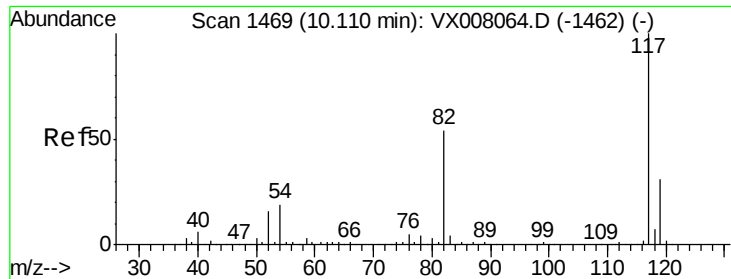


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

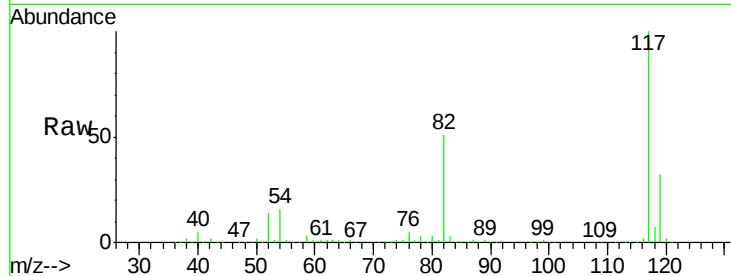




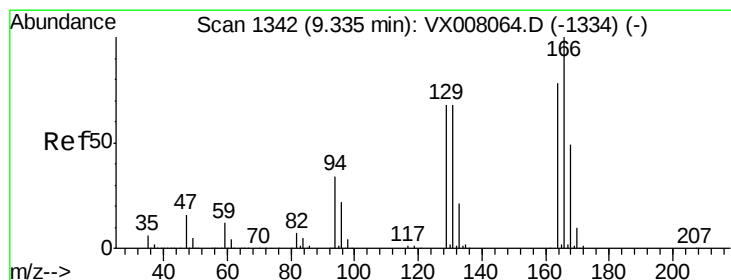
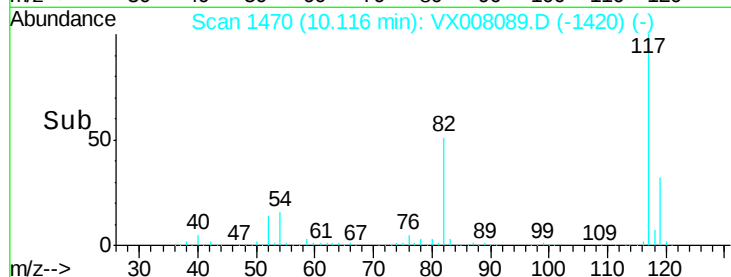
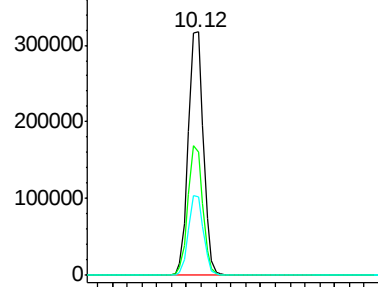
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VX008089.D
Acq: 15 Mar 2019 00:13

Instrument :
MSVOA_X
ClientSampleId :
RE109D3-20190307

Tot Ion:117 Resp: 441168
Ion Ratio Lower Upper
117 100
82 50.6 44.3 66.5
119 32.3 25.3 37.9



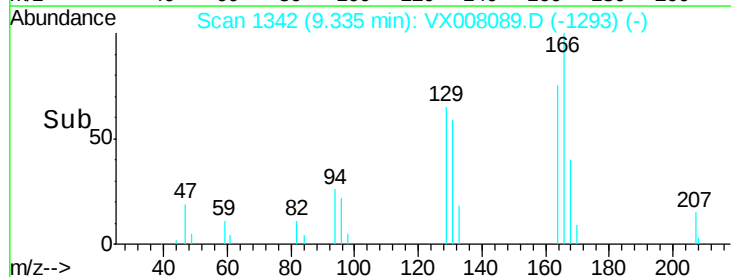
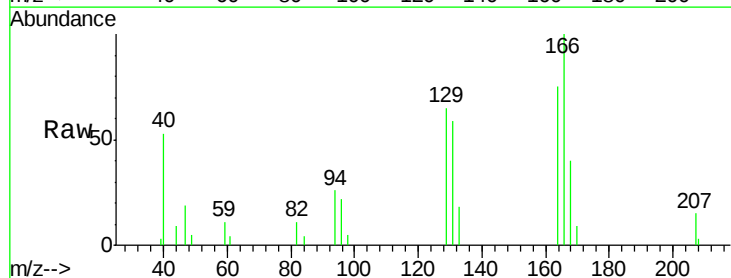
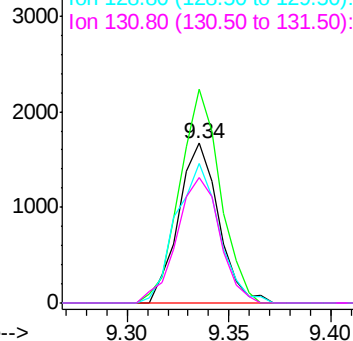
Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

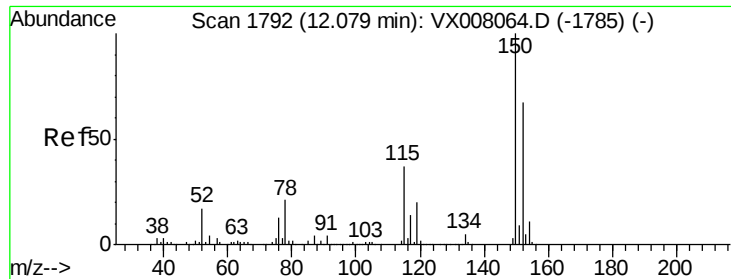


#64
Tetrachloroethene
Concen: 0.637 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VX008089.D
Acq: 15 Mar 2019 00:13

Tgt Ion:164 Resp: 2276
Ion Ratio Lower Upper
164 100
166 133.5 103.4 155.0
129 87.0 72.2 108.4
131 78.1 69.4 104.2

Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX008089.D

Acq: 15 Mar 2019 00:13

Instrument :

MSVOA_X

ClientSampleId :

RE109D3-20190307

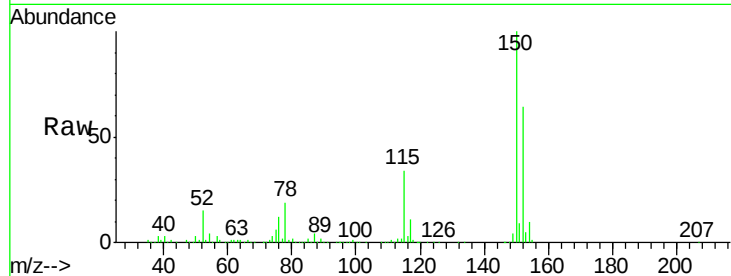
Tot Ion:152 Resp: 216259

Ion Ratio Lower Upper

152 100

115 54.5 38.6 115.7

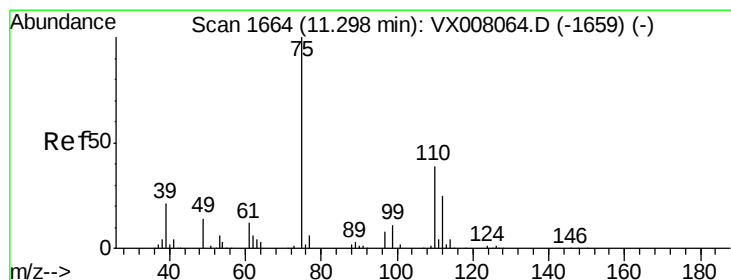
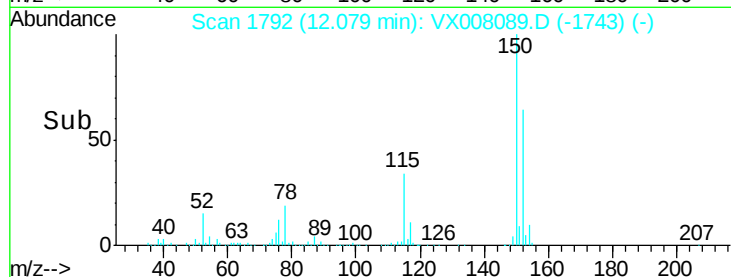
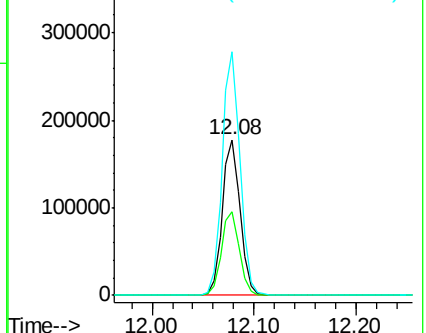
150 156.6 0.0 348.4



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: 24.647 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008089.D

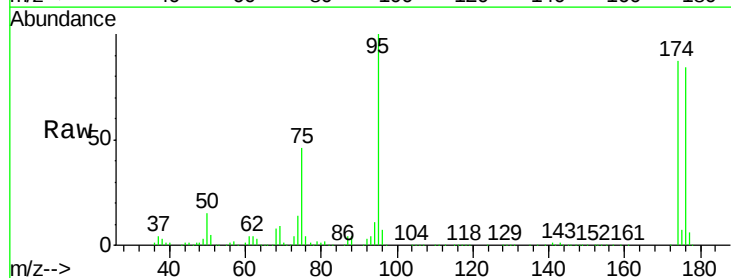
Acq: 15 Mar 2019 00:13

Tgt Ion: 75 Resp: 92569

Ion Ratio Lower Upper

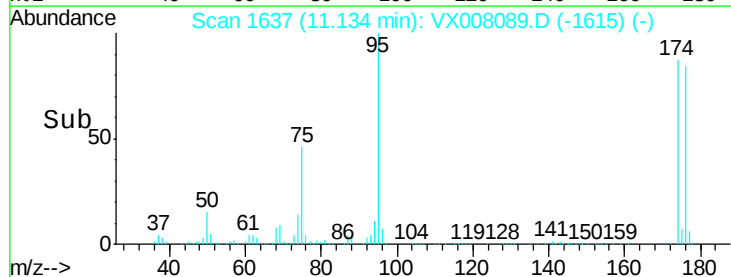
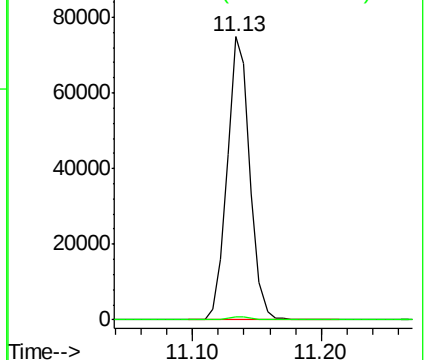
75 100

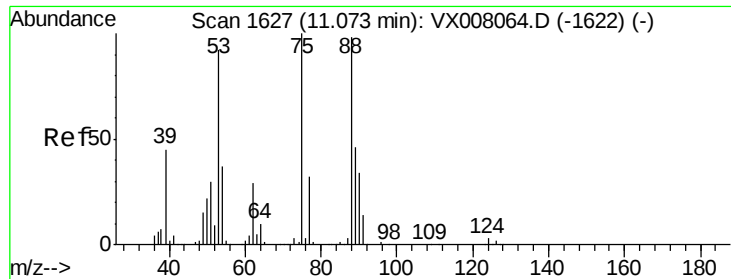
77 1.4 18.9 56.7#



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: 70.137 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008089.D

Acq: 15 Mar 2019 00:13

Instrument :

MSVOA_X

ClientSampleId :

RE109D3-20190307

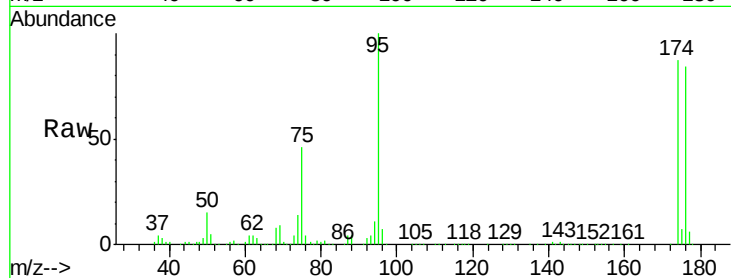
Tot Ion: 75 Resp: 92569

Ion Ratio Lower Upper

75 100

53 0.0 76.1 114.1#

89 0.0 36.3 54.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

