

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX031219\
 Data File : VX008018.D
 Acq On : 12 Mar 2019 16:07
 Operator : JC/SP
 Sample : K1841-06DL 5X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE125D1-20190308DL

Quant Time: Mar 13 05:20:25 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X030619W.M
 Quant Title : SW846 8260
 QLast Update : Thu Mar 07 07:33:26 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	225741	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	355087	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	331800	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	171837	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	125577	52.73	ug/l	0.00
Spiked Amount			Recovery	=	105.46%	
35) Dibromofluoromethane	5.51	113	114754	50.52	ug/l	0.00
Spiked Amount			Recovery	=	101.04%	
50) Toluene-d8	8.71	98	427582	51.26	ug/l	0.00
Spiked Amount			Recovery	=	102.52%	
62) 4-Bromofluorobenzene	11.13	95	159976	54.70	ug/l	0.00
Spiked Amount			Recovery	=	109.40%	

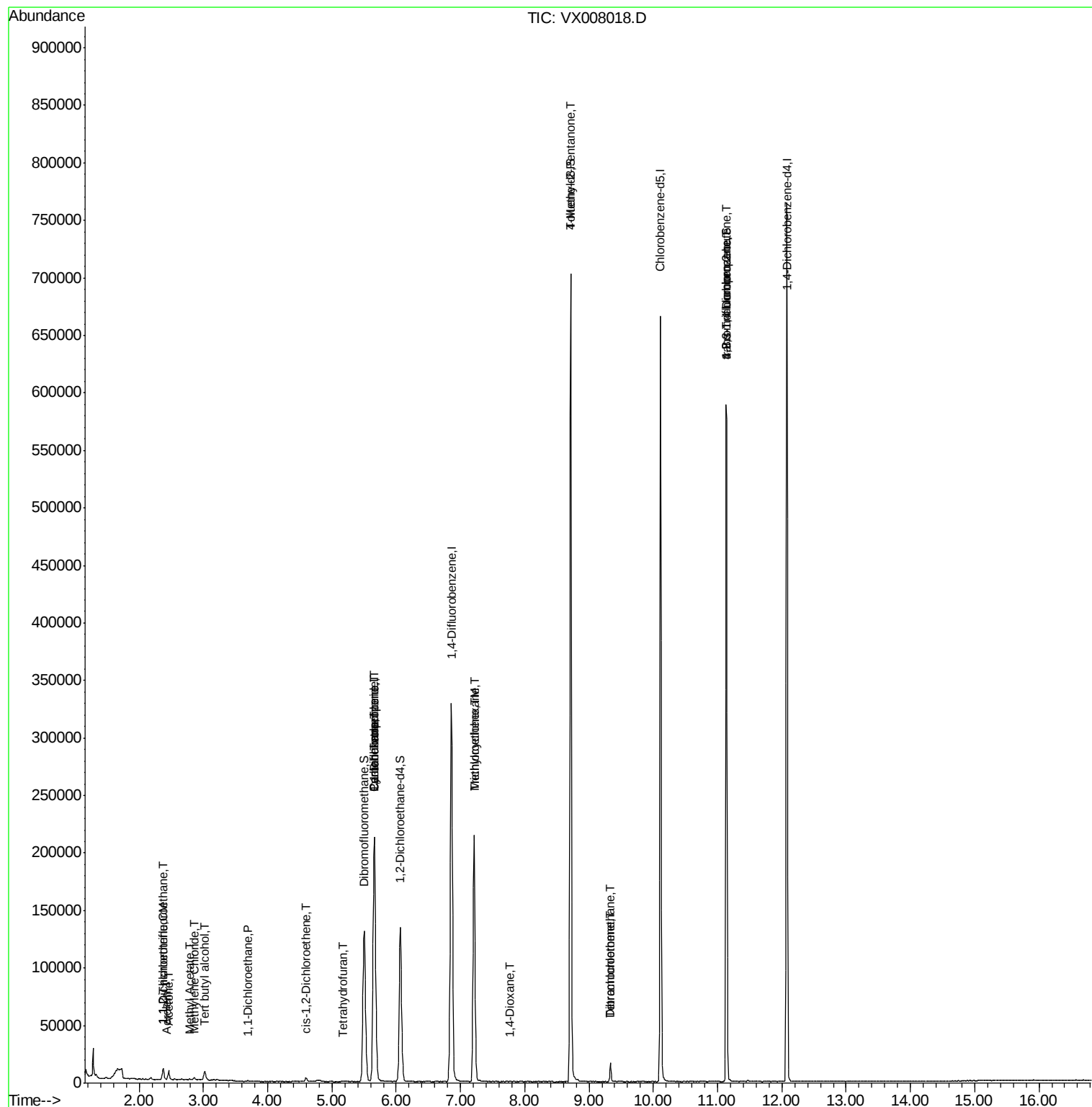
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	619	Below Cal		96
9) 1,1,2-Trichlorotrifluoroet	2.38	101	3069	1.540	ug/l	99
11) Tert butyl alcohol	3.02	59	4894	9.190	ug/l #	73
12) 1,1-Dichloroethene	2.37	96	778	0.405	ug/l	97
13) Acrolein	2.43	56	19	1.604	ug/l #	13
16) Acetone	2.46	43	8987	6.520	ug/l	99
17) Carbon Disulfide	2.56	76	643	Below Cal	#	60
18) Methyl Acetate	2.78	43	619	0.211	ug/l #	83
20) Methylene Chloride	2.85	84	842	0.384	ug/l	95
24) 1,1-Dichloroethane	3.70	63	1164	0.292	ug/l #	83
27) cis-1,2-Dichloroethene	4.59	96	2025	0.837	ug/l	92
29) Tetrahydrofuran	5.17	42	336	0.276	ug/l #	60
31) Cyclohexane	5.67	56	3484	0.952	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	13636	4.241	ug/l #	49
38) Carbon Tetrachloride	5.66	117	19067	6.246	ug/l #	16
39) Methylcyclohexane	7.21	83	984	0.253	ug/l #	1
44) Trichloroethene	7.21	130	88288	33.470	ug/l	99
49) 1,4-Dioxane	7.76	88	251	4.116	ug/l #	77
51) 4-Methyl-2-Pentanone	8.71	43	1674	0.461	ug/l #	1
60) Dibromochloromethane	9.34	129	3110	1.258	ug/l #	11
64) Tetrachloroethene	9.34	164	3555	1.293	ug/l	94
76) 1,2,3-Trichloropropane	11.13	75	73533	20.393	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	73533	65.185	ug/l #	11

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

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QLast Update : Thu Mar 07 07:33:26 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX008018.D

Acq: 12 Mar 2019 16:07

Instrument :

MSVOA_X

ClientSampleId :

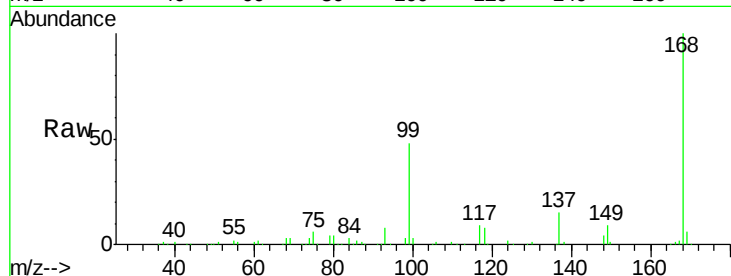
RE125D1-20190308DL

Tot Ion:168 Resp: 225741

Ion Ratio Lower Upper

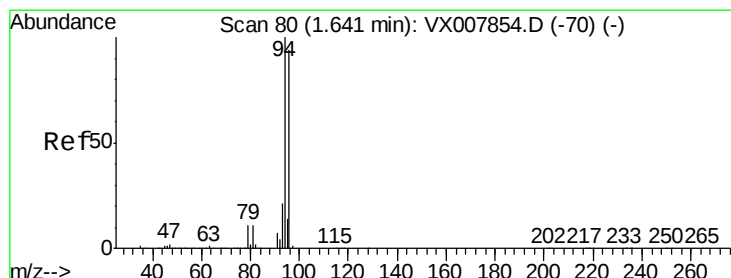
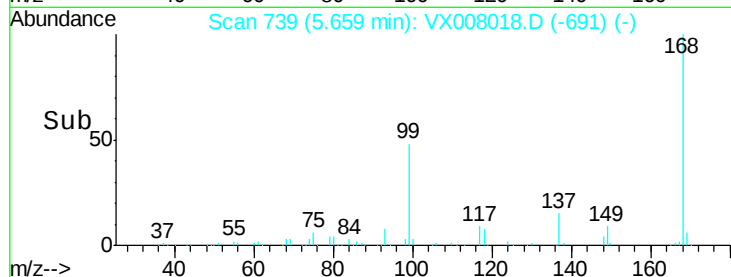
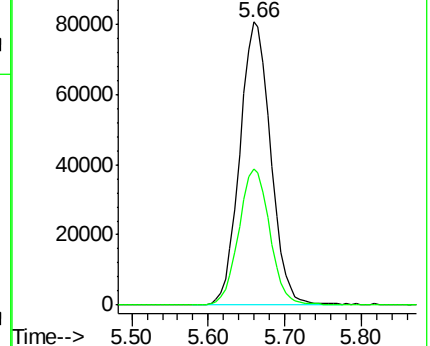
168 100

99 48.1 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 80

Delta R.T. 0.00 min

Lab File: VX008018.D

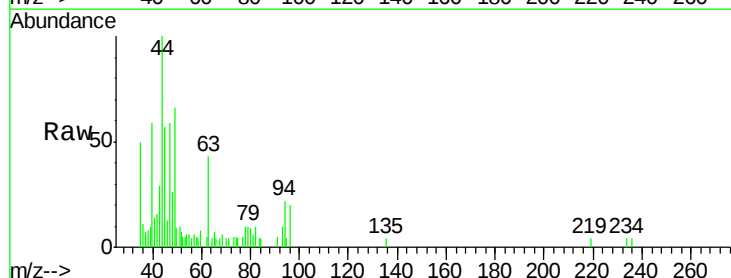
Acq: 12 Mar 2019 16:07

Tgt Ion: 94 Resp: 619

Ion Ratio Lower Upper

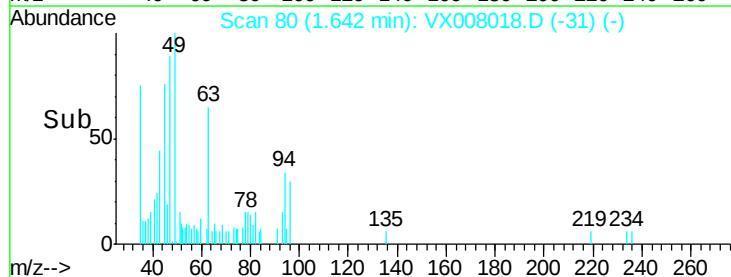
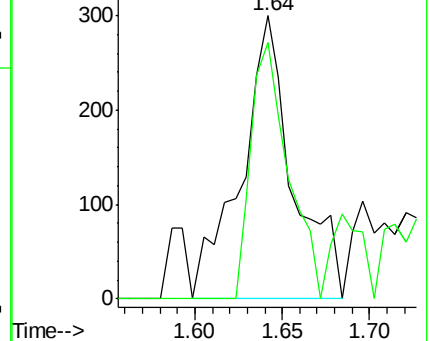
94 100

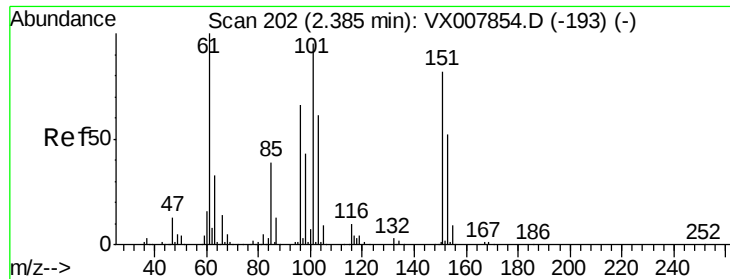
96 90.7 75.5 113.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 1.540 ug/l

RT: 2.38 min Scan# 201

Delta R.T. -0.01 min

Lab File: VX008018.D

Acq: 12 Mar 2019 16:07

Instrument :

MSVOA_X

ClientSampleId :

RE125D1-20190308DL

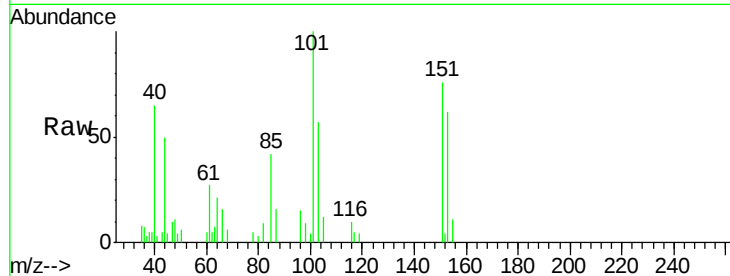
Tot Ion:101 Resp: 3069

Ion Ratio Lower Upper

101 100

85 43.9 33.8 50.6

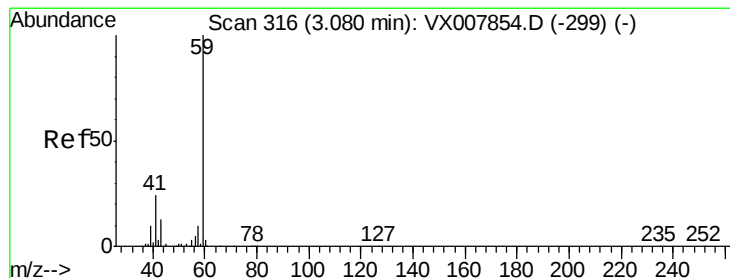
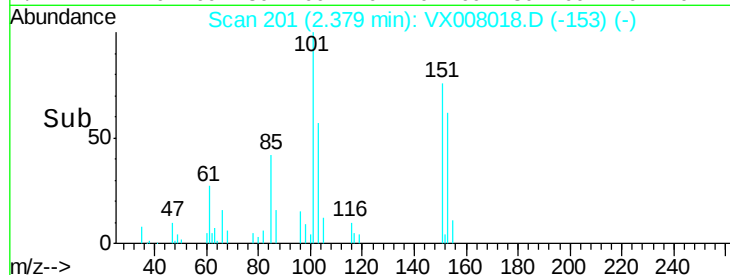
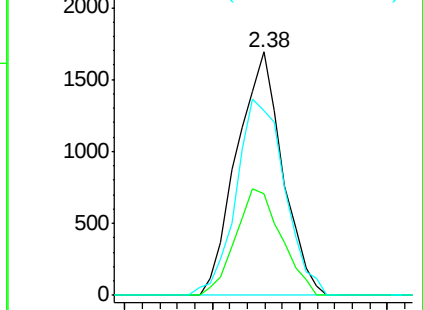
151 85.7 69.1 103.7



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: 9.190 ug/l

RT: 3.02 min Scan# 306

Delta R.T. -0.06 min

Lab File: VX008018.D

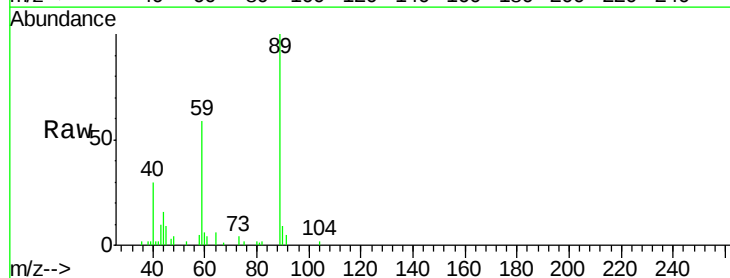
Acq: 12 Mar 2019 16:07

Tgt Ion: 59 Resp: 4894

Ion Ratio Lower Upper

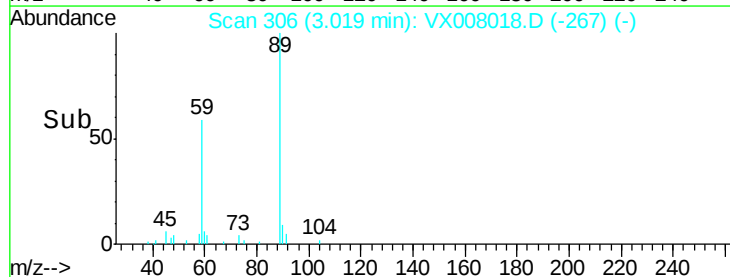
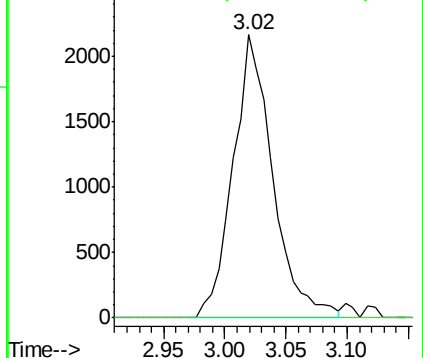
59 100

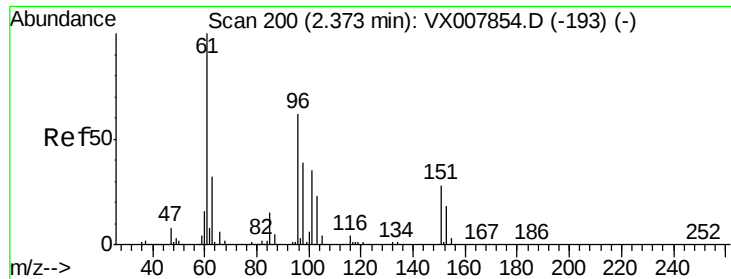
57 0.0 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#12

1,1-Dichloroethene

Concen: 0.405 ug/l

RT: 2.37 min Scan# 199

Delta R.T. -0.01 min

Lab File: VX008018.D

Acq: 12 Mar 2019 16:07

Instrument :

MSVOA_X

ClientSampleId :

RE125D1-20190308DL

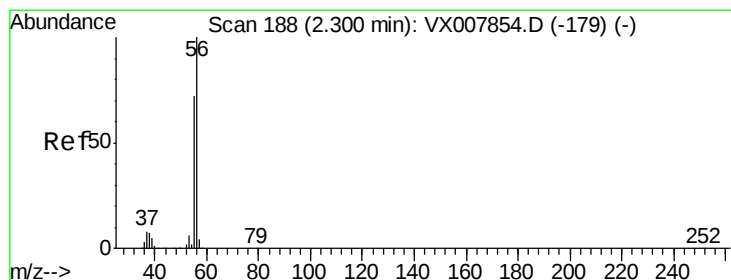
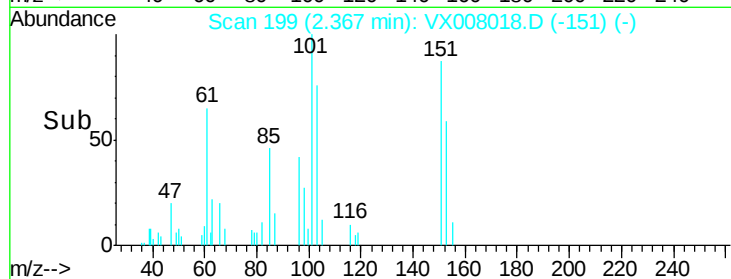
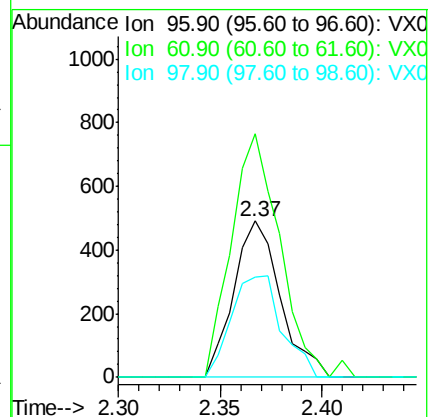
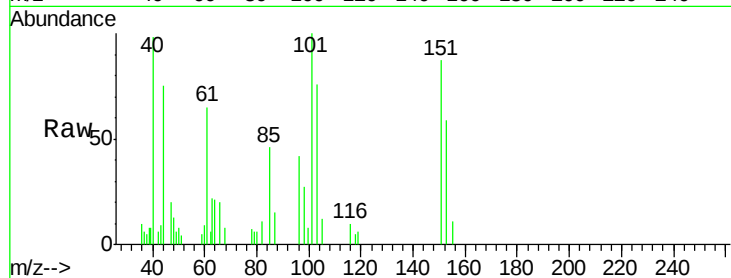
Tot Ion: 96 Resp: 778

Ion Ratio Lower Upper

96 100

61 156.1 129.8 194.6

98 64.3 51.0 76.6



#13

Acrolein

Concen: 1.604 ug/l

RT: 2.43 min Scan# 209

Delta R.T. 0.13 min

Lab File: VX008018.D

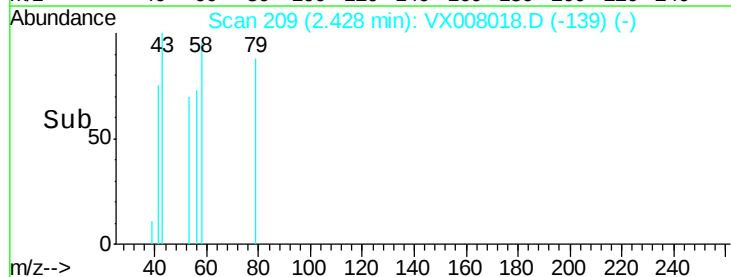
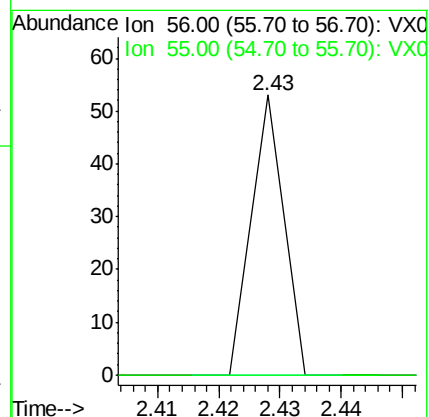
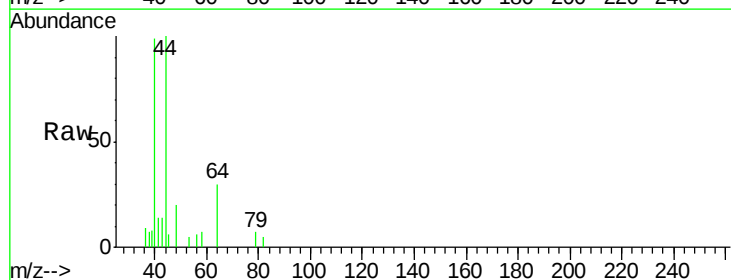
Acq: 12 Mar 2019 16:07

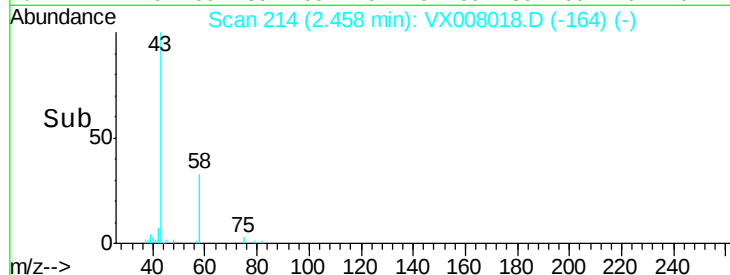
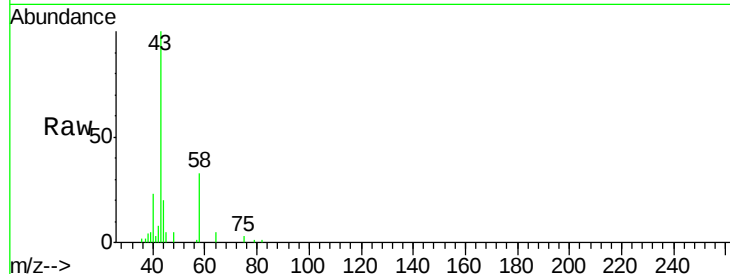
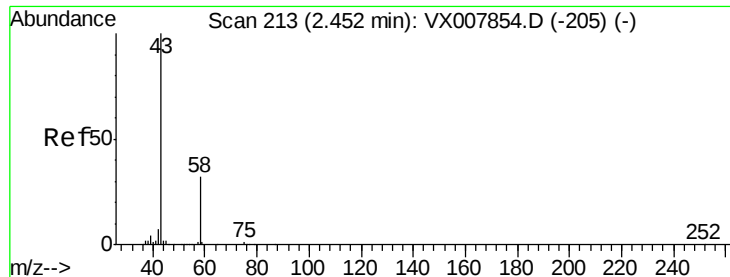
Tgt Ion: 56 Resp: 19

Ion Ratio Lower Upper

56 100

55 0.0 57.8 86.6#





#16

Acetone

Concen: 6.520 ug/l

RT: 2.46 min Scan# 214

Delta R.T. 0.01 min

Lab File: VX008018.D

Acq: 12 Mar 2019 16:07

Instrument :

MSVOA_X

ClientSampleId :

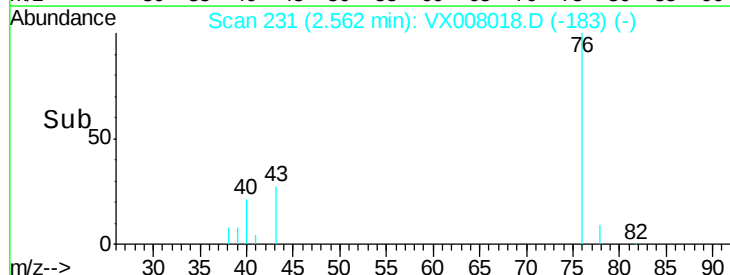
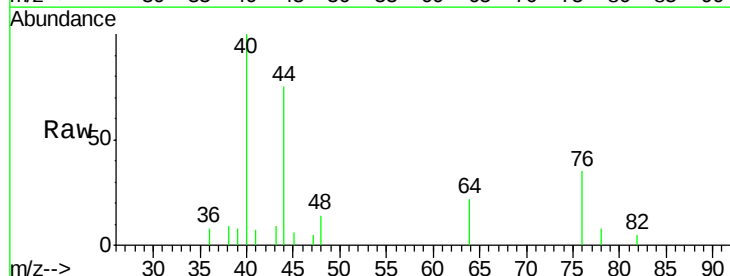
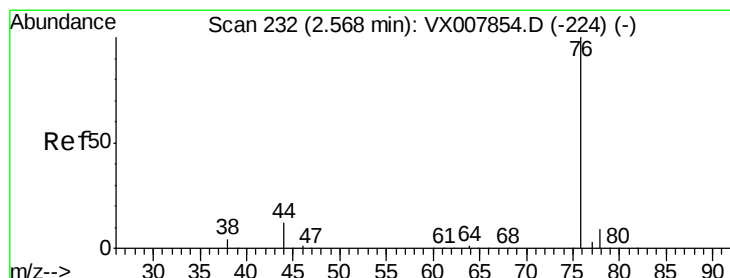
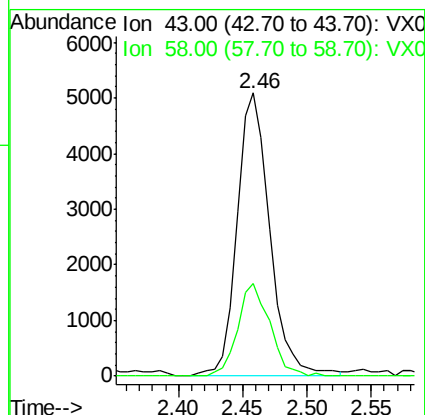
RE125D1-20190308DL

Tot Ion: 43 Resp: 8987

Ion Ratio Lower Upper

43 100

58 32.7 25.5 38.3



#17

Carbon Disulfide

Concen: Below Cal

RT: 2.56 min Scan# 231

Delta R.T. -0.01 min

Lab File: VX008018.D

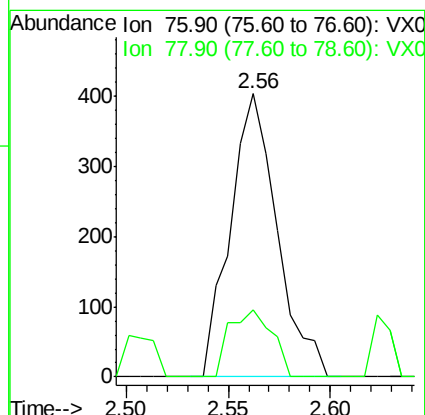
Acq: 12 Mar 2019 16:07

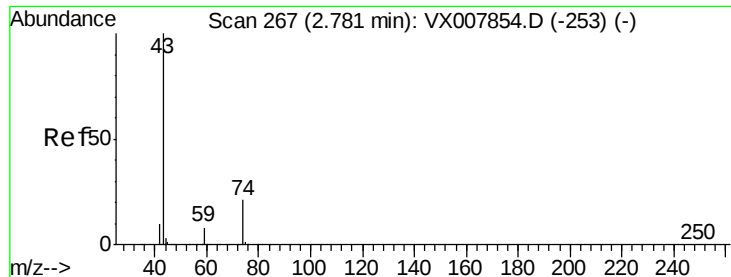
Tgt Ion: 76 Resp: 643

Ion Ratio Lower Upper

76 100

78 23.6 7.2 10.8#

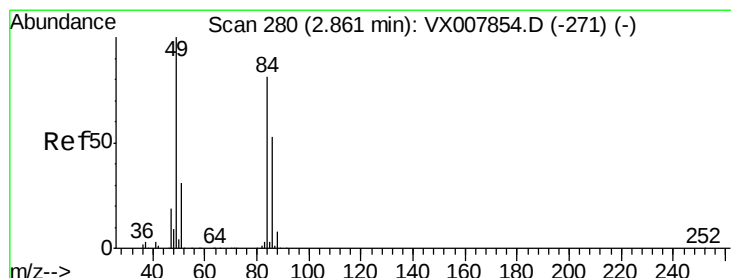
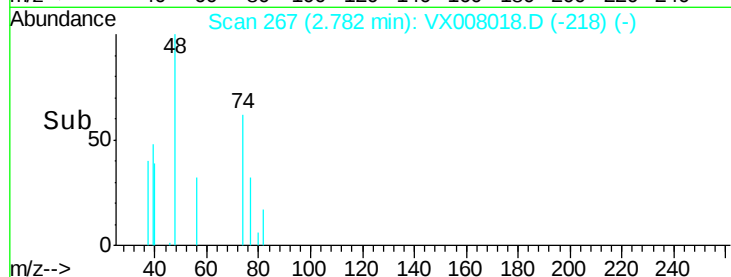
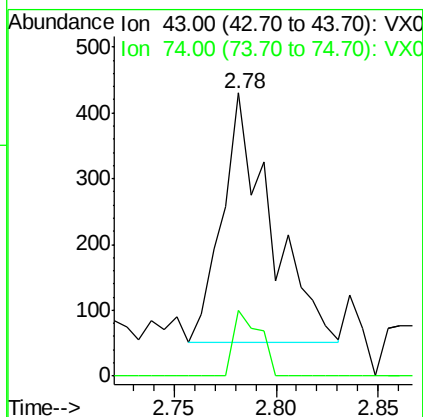
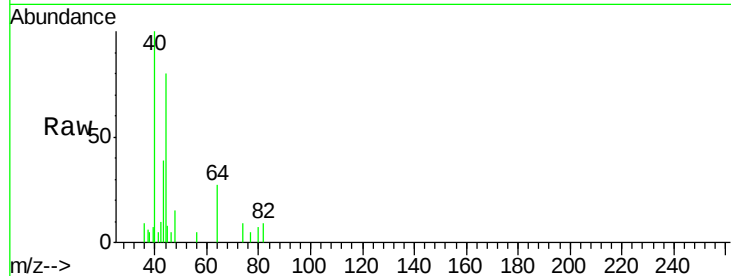




#18
Methvl Acetate
Concen: 0.211 ug/l
RT: 2.78 min Scan# 267
Delta R.T. 0.00 min
Lab File: VX008018.D
Acq: 12 Mar 2019 16:07

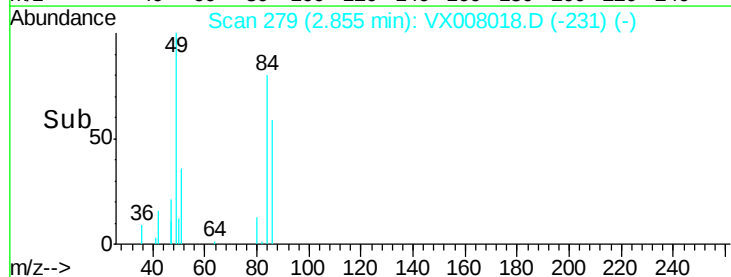
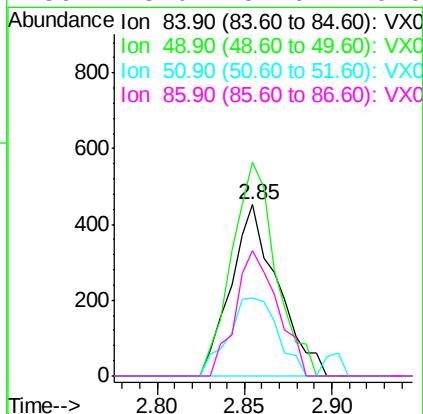
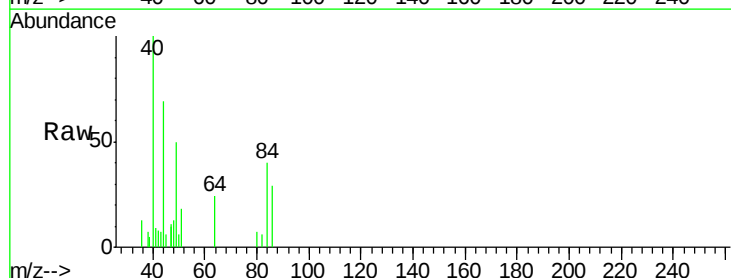
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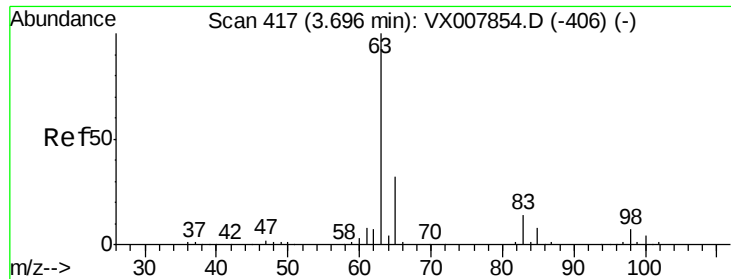
Tot Ion: 43 Resp: 619
Ion Ratio Lower Upper
43 100
74 14.2 17.8 26.6#



#20
Methylene Chloride
Concen: 0.384 ug/l
RT: 2.85 min Scan# 279
Delta R.T. -0.01 min
Lab File: VX008018.D
Acq: 12 Mar 2019 16:07

Tgt Ion: 84 Resp: 842
Ion Ratio Lower Upper
84 100
49 124.8 99.3 148.9
51 45.4 31.3 46.9
86 73.0 52.6 79.0





#24

1,1-Dichloroethane

Concen: 0.292 ug/l

RT: 3.70 min Scan# 417

Delta R.T. 0.00 min

Lab File: VX008018.D

Acq: 12 Mar 2019 16:07

Instrument :

MSVOA_X

ClientSampleId :

RE125D1-20190308DL

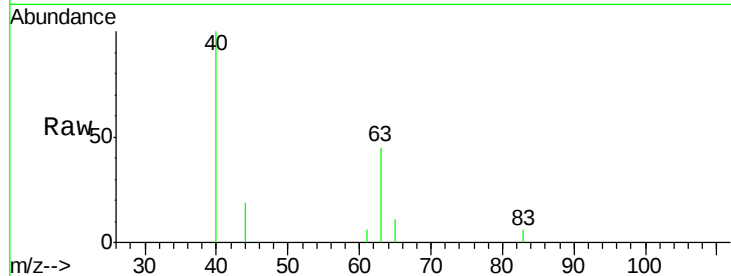
Tot Ion: 63 Resp: 1164

Ion Ratio Lower Upper

63 100

98 0.0 3.3 9.8#

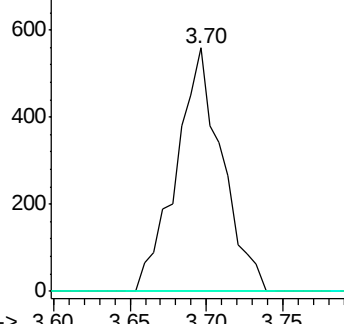
100 0.0 2.3 6.8#



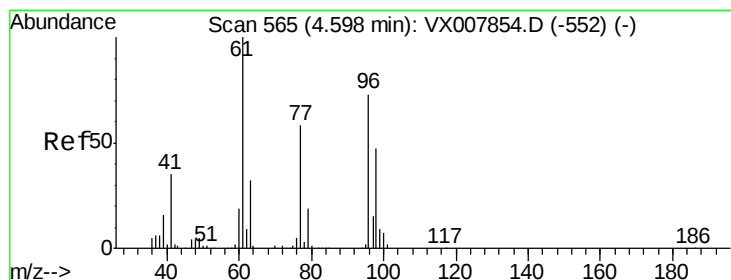
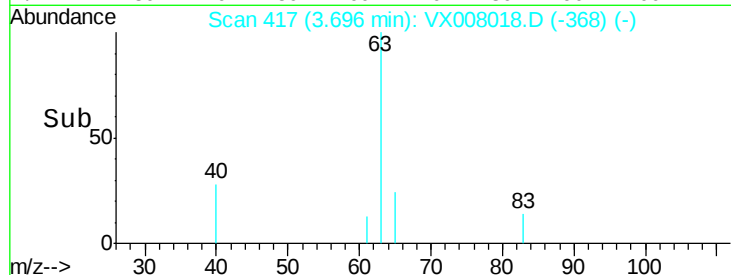
Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0



Time--> 3.60 3.65 3.70 3.75



#27

cis-1,2-Dichloroethene

Concen: 0.837 ug/l

RT: 4.59 min Scan# 564

Delta R.T. -0.01 min

Lab File: VX008018.D

Acq: 12 Mar 2019 16:07

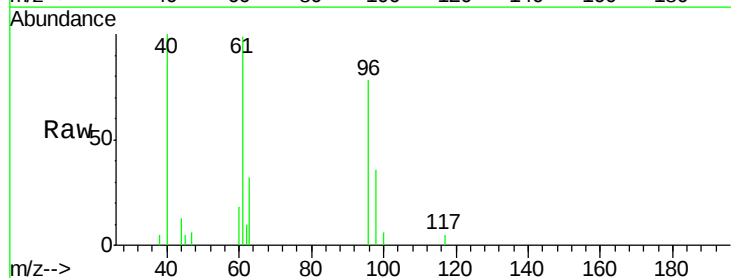
Tgt Ion: 96 Resp: 2025

Ion Ratio Lower Upper

96 100

61 154.5 0.0 288.0

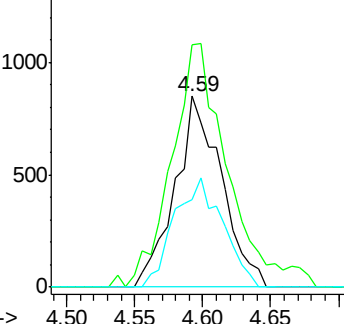
98 59.4 0.0 129.0



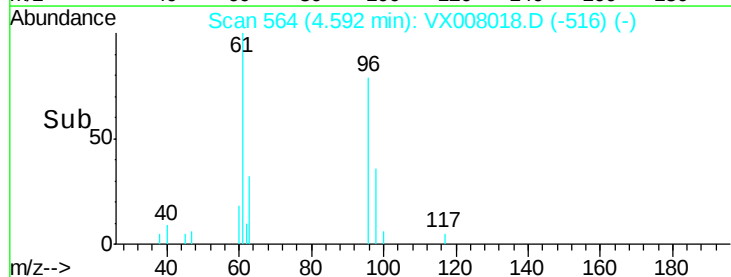
Abundance Ion 95.90 (95.60 to 96.60): VX0

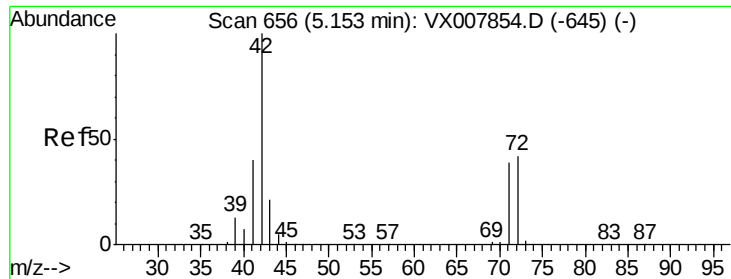
Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



Time--> 4.50 4.55 4.60 4.65

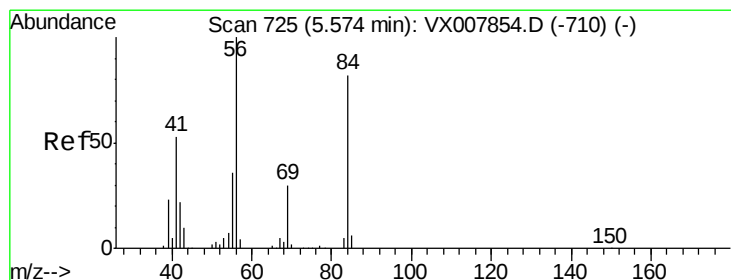
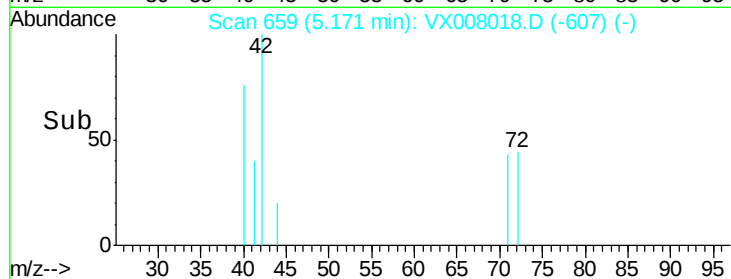
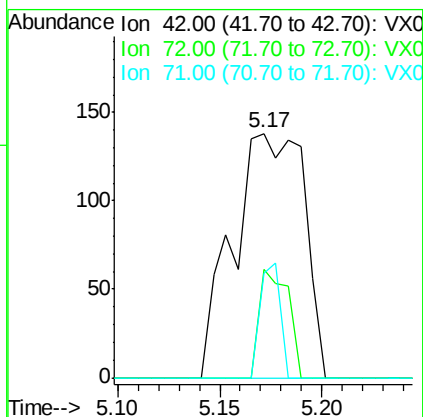
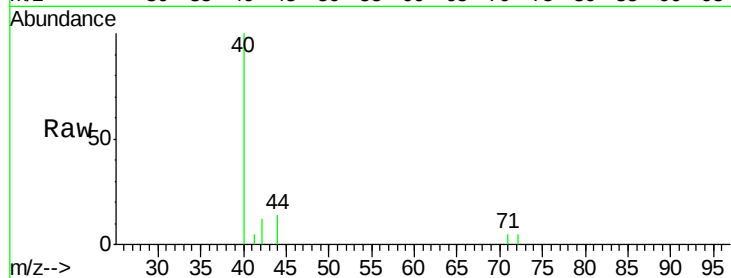




#29
Tetrahydrofuran
Concen: 0.276 ug/l
RT: 5.17 min Scan# 659
Delta R.T. 0.02 min
Lab File: VX008018.D
Acq: 12 Mar 2019 16:07

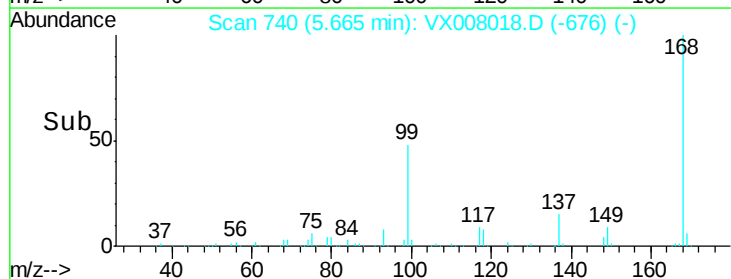
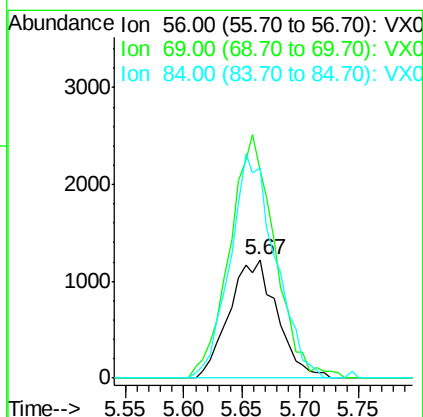
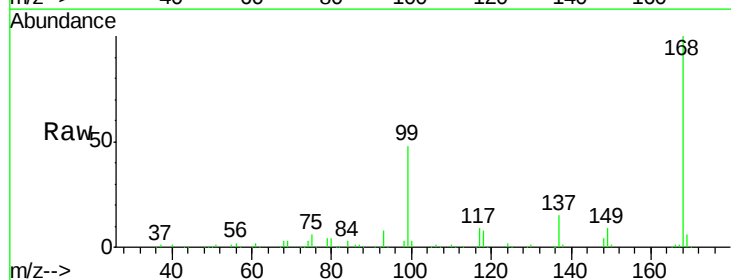
Instrument :
MSVOA_X
ClientSampleId :
RE125D1-20190308DL

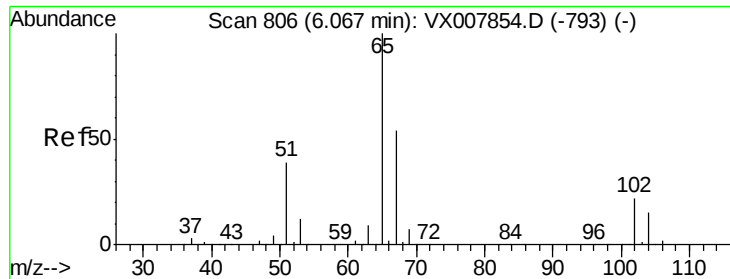
Tot Ion: 42 Resp: 336
Ion Ratio Lower Upper
42 100
72 18.2 33.8 50.6#
71 13.4 31.5 47.3#



#31
Cyclohexane
Concen: 0.952 ug/l
RT: 5.67 min Scan# 740
Delta R.T. 0.09 min
Lab File: VX008018.D
Acq: 12 Mar 2019 16:07

Tgt Ion: 56 Resp: 3484
Ion Ratio Lower Upper
56 100
69 175.6 24.0 36.0#
84 177.8 65.3 97.9#

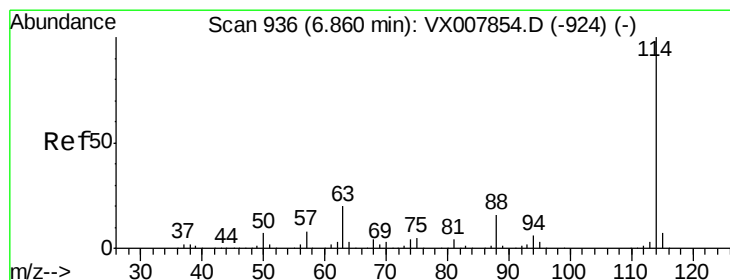
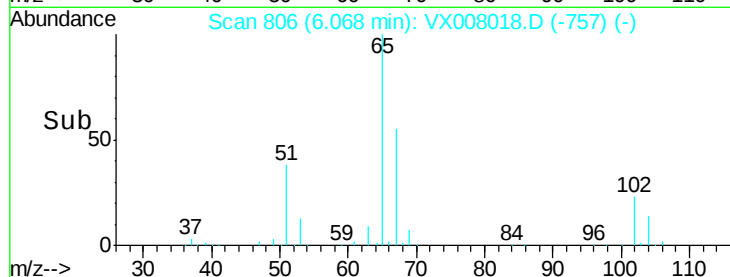
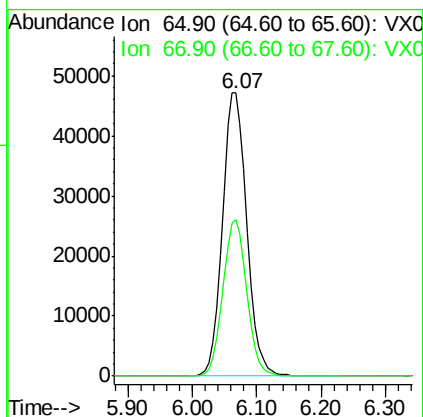
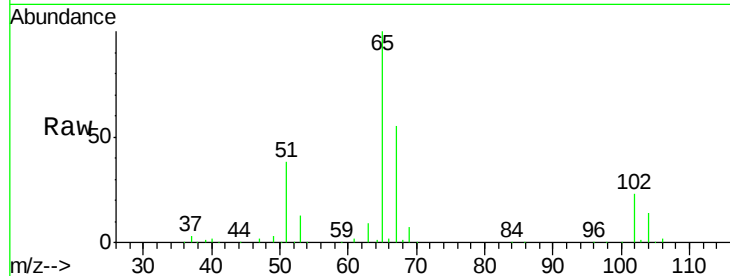




#33
 1,2-Dichloroethane-d4
 Concen: 52.734 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. 0.00 min
 Lab File: VX008018.D
 Acq: 12 Mar 2019 16:07

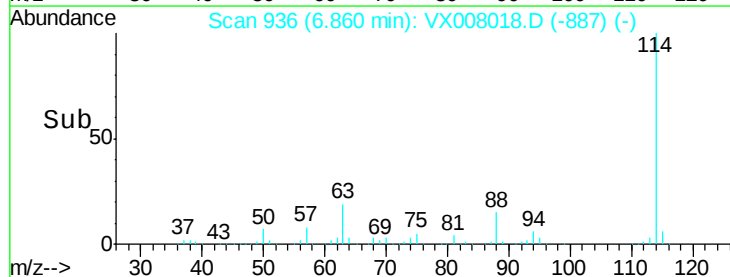
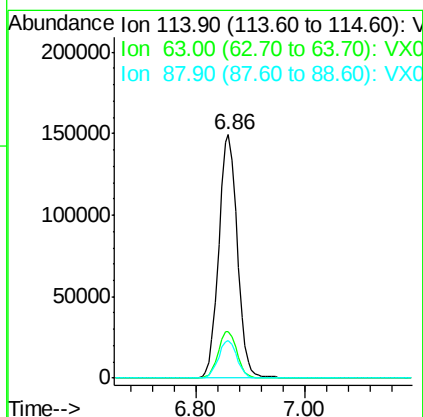
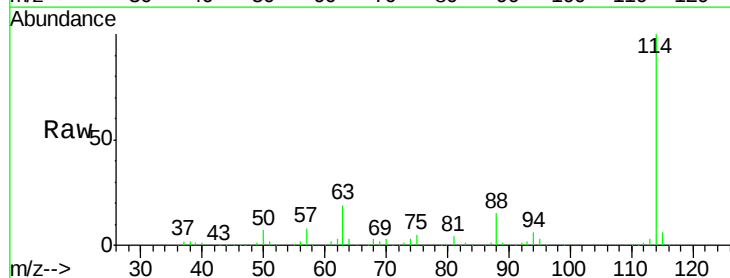
Instrument :
 MSVOA_X
 ClientSampleId :
 RE125D1-20190308DL

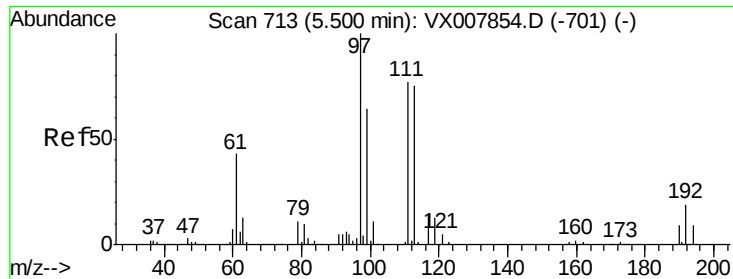
Tot Ion: 65 Resp: 125577
 Ion Ratio Lower Upper
 65 100
 67 54.4 0.0 110.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX008018.D
 Acq: 12 Mar 2019 16:07

Tgt Ion: 114 Resp: 355087
 Ion Ratio Lower Upper
 114 100
 63 19.2 0.0 39.8
 88 15.2 0.0 31.4

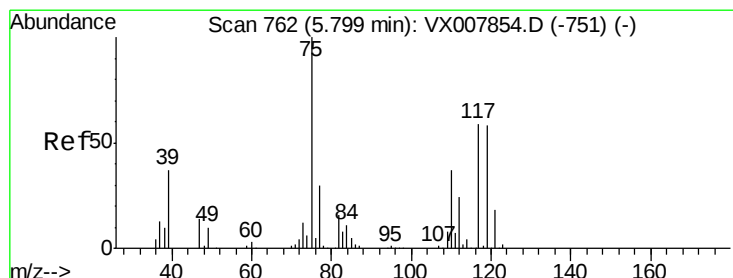
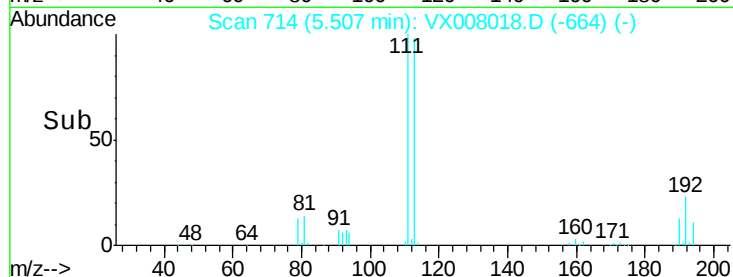
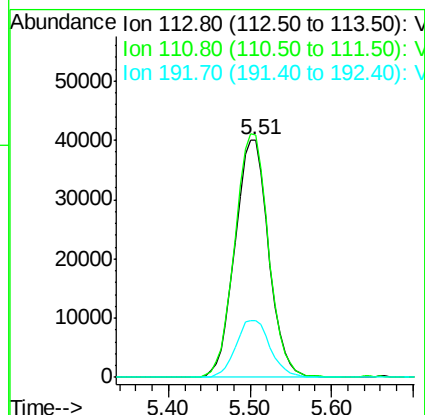
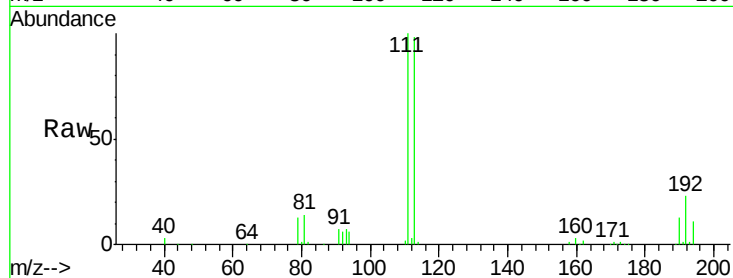




#35
 Dibromofluoromethane
 Concen: 50.522 ug/l
 RT: 5.51 min Scan# 714
 Delta R.T. 0.01 min
 Lab File: VX008018.D
 Acq: 12 Mar 2019 16:07

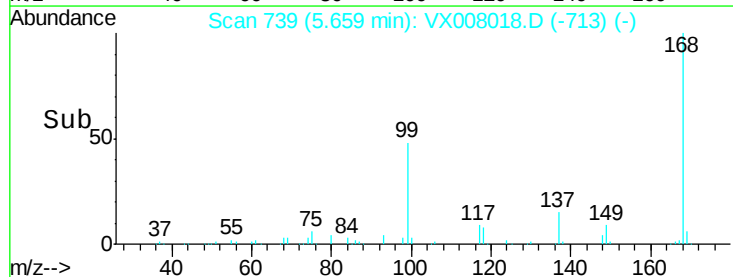
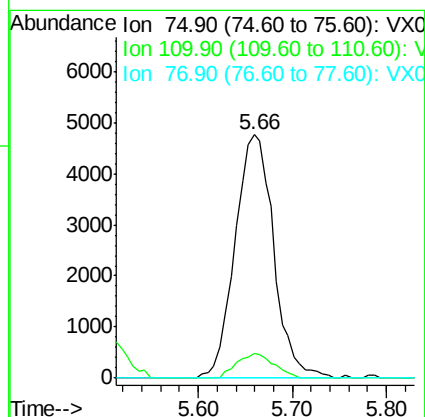
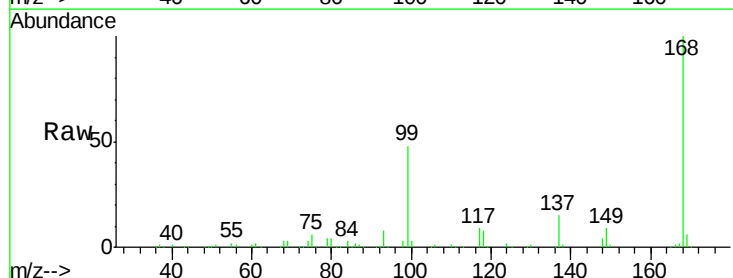
Instrument :
 MSVOA_X
 ClientSampleId :
 RE125D1-20190308DL

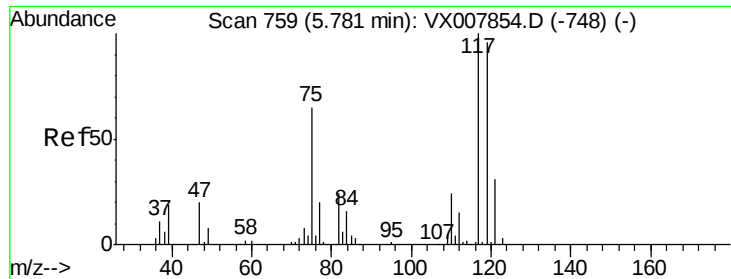
Tot Ion:113 Resp: 114754
 Ion Ratio Lower Upper
 113 100
 111 102.5 81.4 122.0
 192 24.3 19.4 29.0



#36
 1,1-Dichloropropene
 Concen: 4.241 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX008018.D
 Acq: 12 Mar 2019 16:07

Tgt Ion: 75 Resp: 13636
 Ion Ratio Lower Upper
 75 100
 110 9.6 18.4 55.0#
 77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 6.246 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX008018.D

Acq: 12 Mar 2019 16:07

Instrument :

MSVOA_X

ClientSampleId :

RE125D1-20190308DL

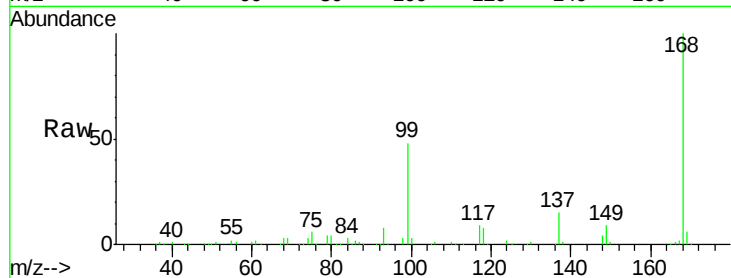
Tot Ion:117 Resp: 19067

Ion Ratio Lower Upper

117 100

119 5.1 76.2 114.2#

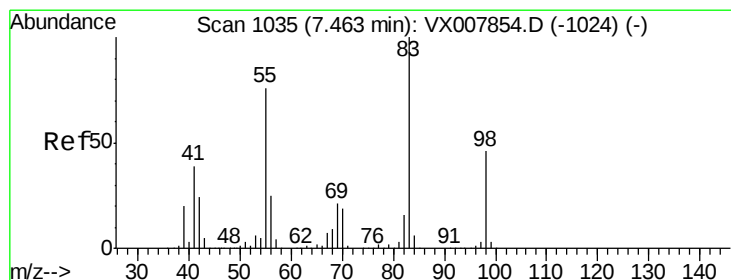
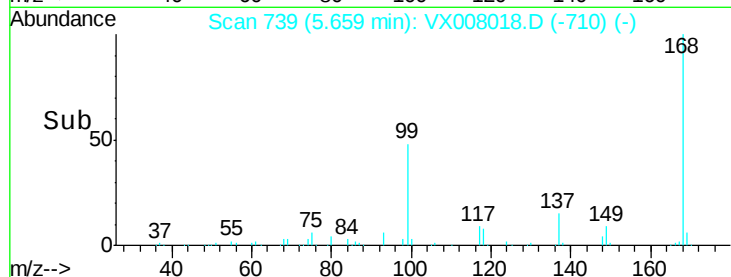
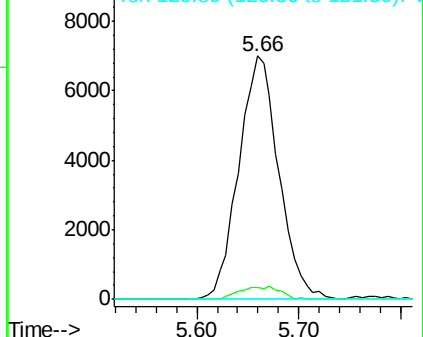
121 0.0 24.6 36.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#39

Methylcyclohexane

Concen: 0.253 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.25 min

Lab File: VX008018.D

Acq: 12 Mar 2019 16:07

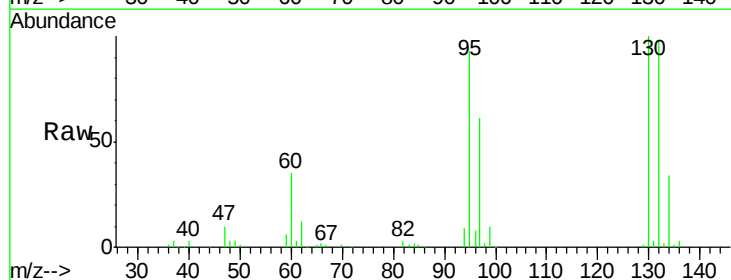
Tgt Ion: 83 Resp: 984

Ion Ratio Lower Upper

83 100

55 0.0 60.4 90.6#

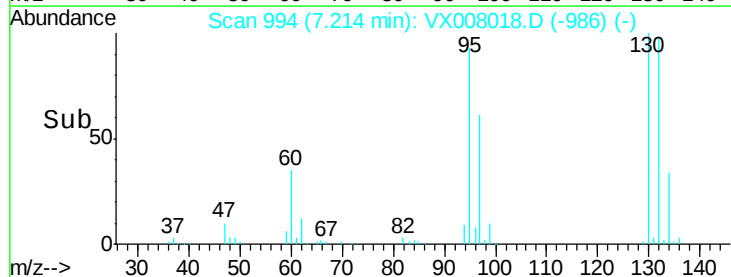
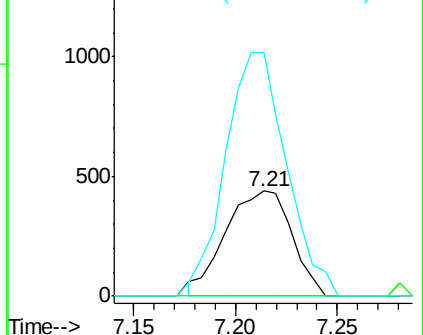
98 219.3 36.5 54.7#

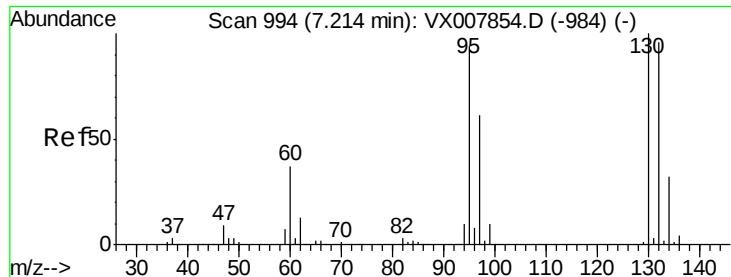


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0





#44

Trichloroethene

Concen: 33.470 ug/l

RT: 7.21 min Scan# 994

Delta R.T. 0.00 min

Lab File: VX008018.D

Acq: 12 Mar 2019 16:07

Instrument :

MSVOA_X

ClientSampleId :

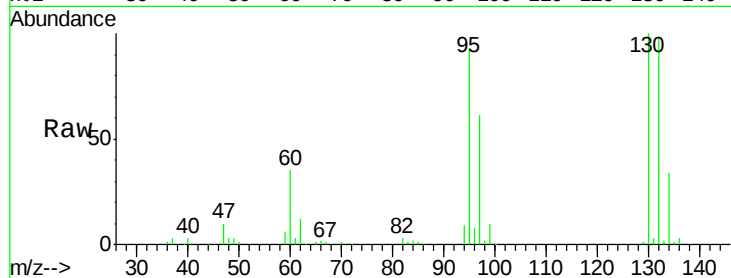
RE125D1-20190308DL

Tot Ion:130 Resp: 88288

Ion Ratio Lower Upper

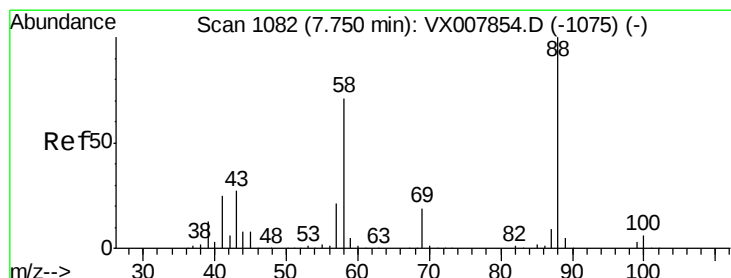
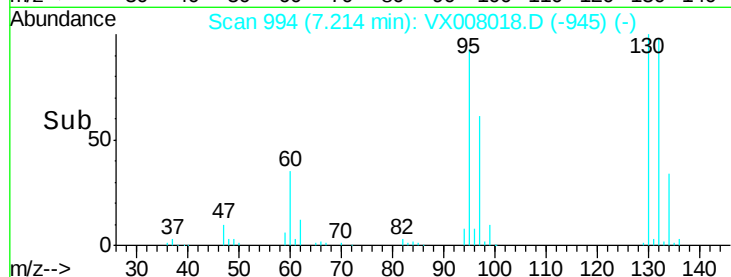
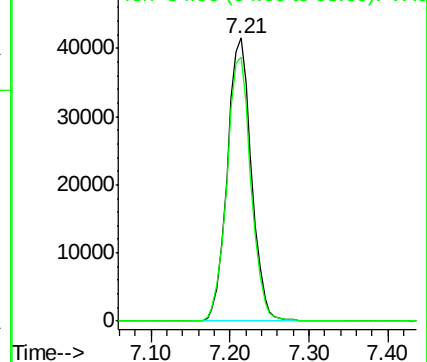
130 100

95 93.1 0.0 188.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#49

1,4-Dioxane

Concen: 4.116 ug/l

RT: 7.76 min Scan# 1084

Delta R.T. 0.01 min

Lab File: VX008018.D

Acq: 12 Mar 2019 16:07

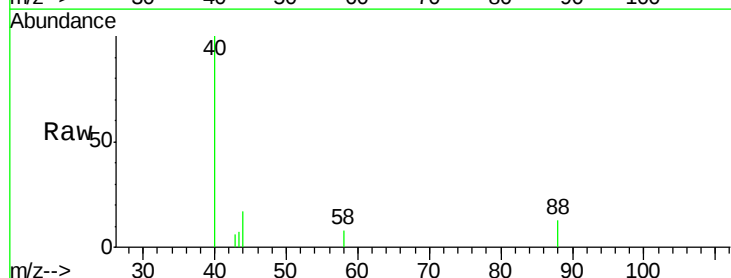
Tgt Ion: 88 Resp: 251

Ion Ratio Lower Upper

88 100

43 35.9 25.1 37.7

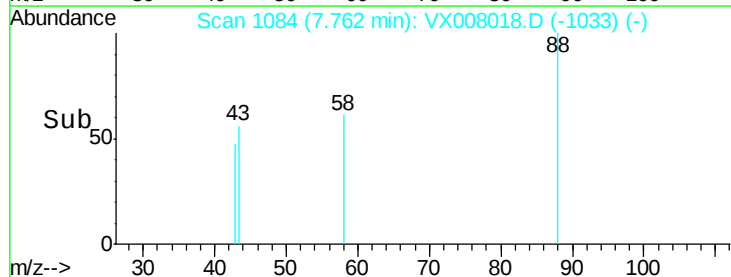
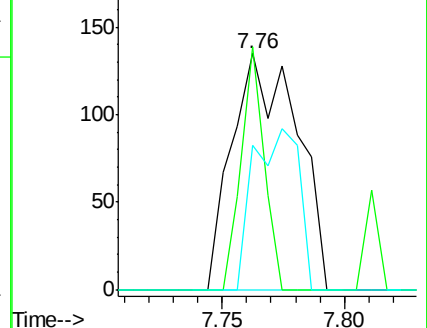
58 47.8 57.8 86.6#

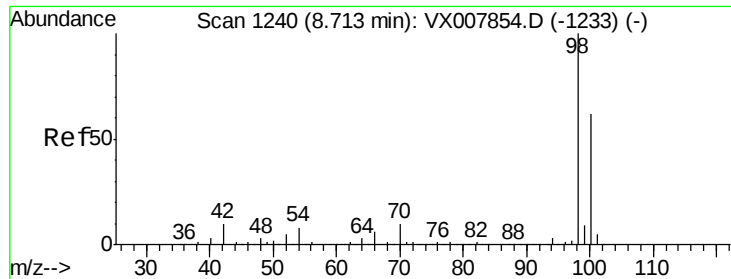


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 51.258 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX008018.D

Acq: 12 Mar 2019 16:07

Instrument :

MSVOA_X

ClientSampleId :

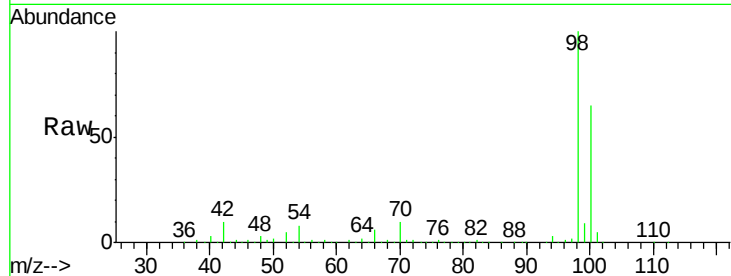
RE125D1-20190308DL

Tot Ion: 98 Resp: 427582

Ion Ratio Lower Upper

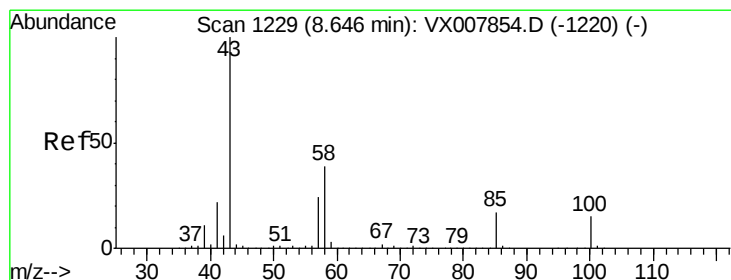
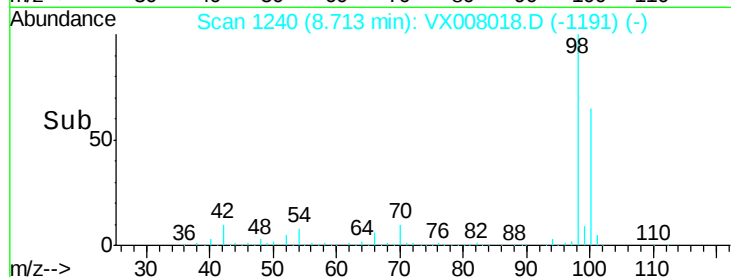
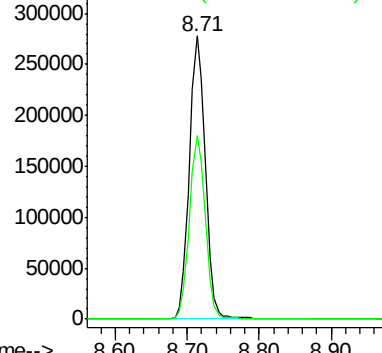
98 100

100 64.7 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX



#51

4-Methyl-2-Pentanone

Concen: 0.461 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.07 min

Lab File: VX008018.D

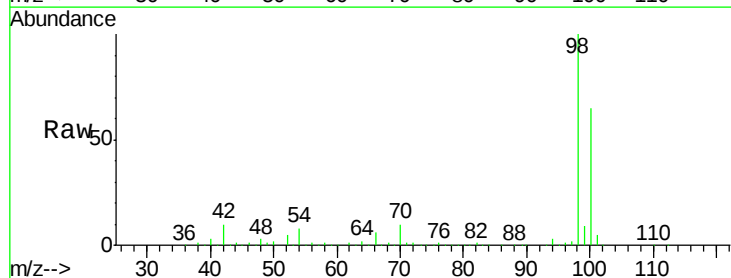
Acq: 12 Mar 2019 16:07

Tgt Ion: 43 Resp: 1674

Ion Ratio Lower Upper

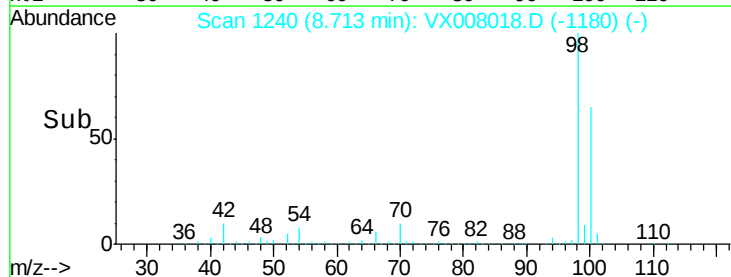
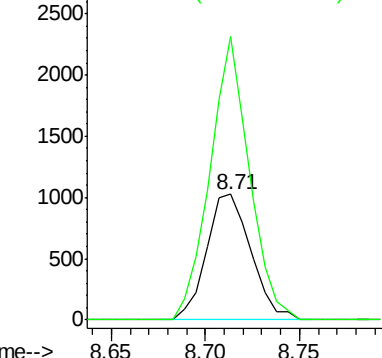
43 100

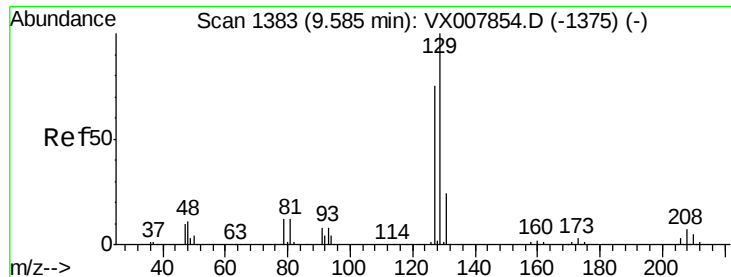
58 199.8 31.3 46.9#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#60

Dibromochloromethane

Concen: 1.258 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.25 min

Lab File: VX008018.D

Acq: 12 Mar 2019 16:07

Instrument :

MSVOA_X

ClientSampleId :

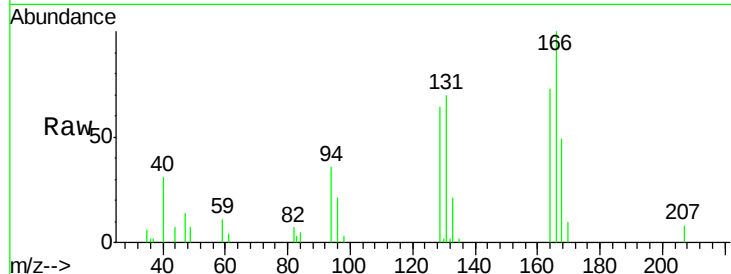
RE125D1-20190308DL

Tot Ion:129 Resp: 3110

Ion Ratio Lower Upper

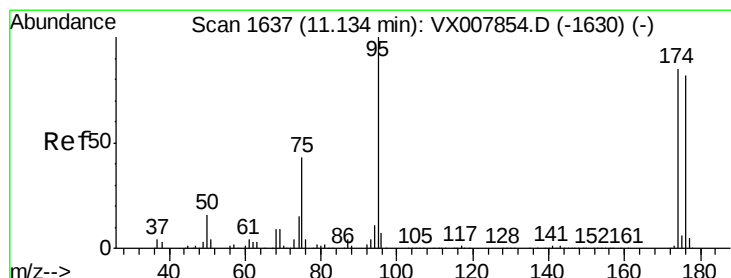
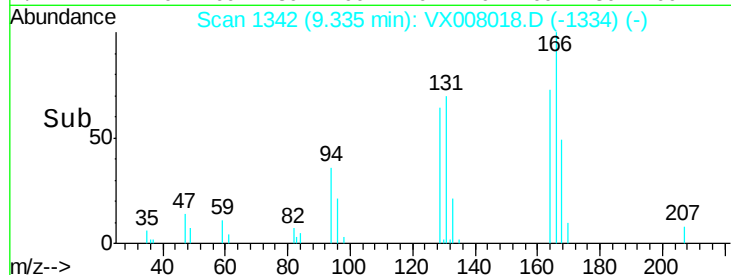
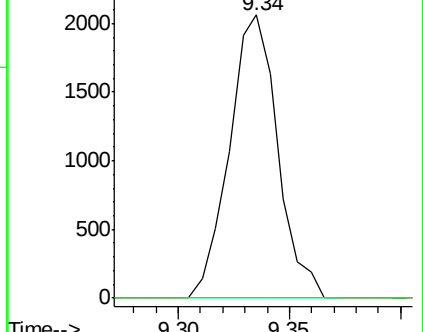
129 100

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: 54.699 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX008018.D

Acq: 12 Mar 2019 16:07

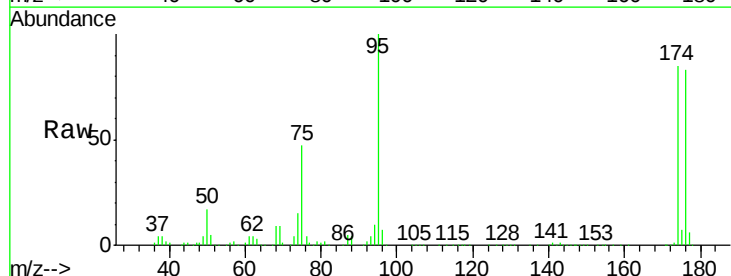
Tgt Ion: 95 Resp: 159976

Ion Ratio Lower Upper

95 100

174 92.4 0.0 182.8

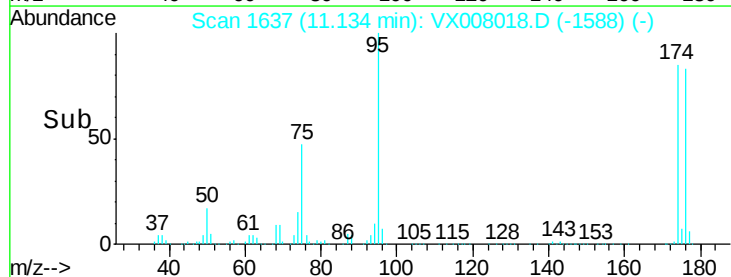
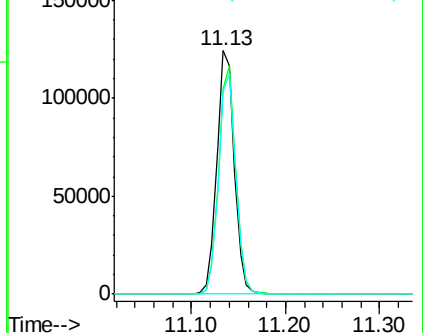
176 89.9 0.0 178.0

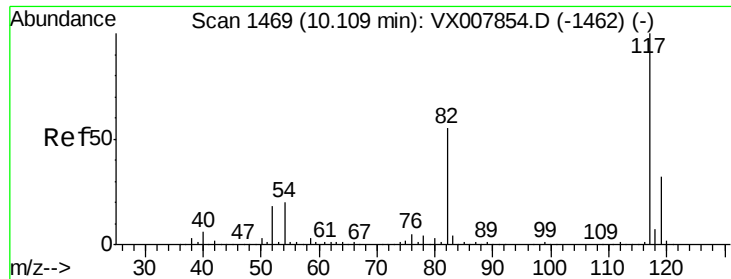


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

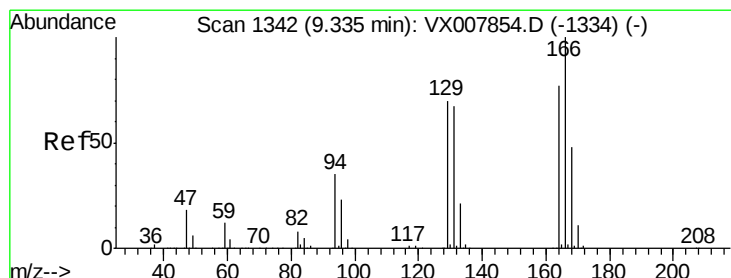
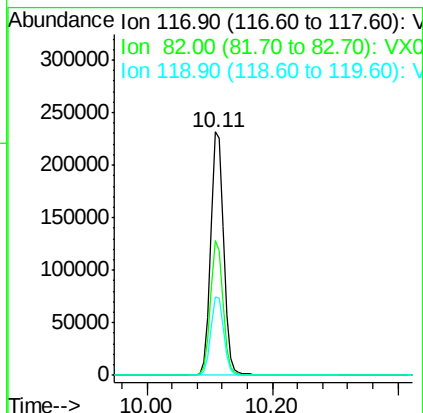
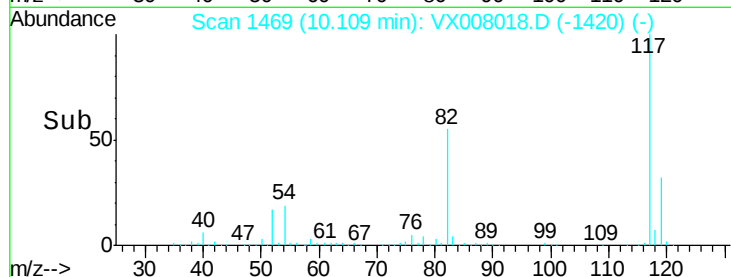
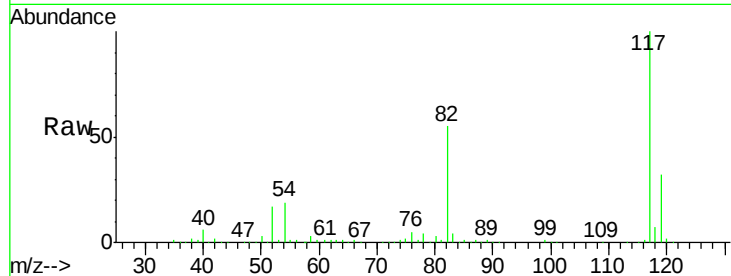




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX008018.D
Acq: 12 Mar 2019 16:07

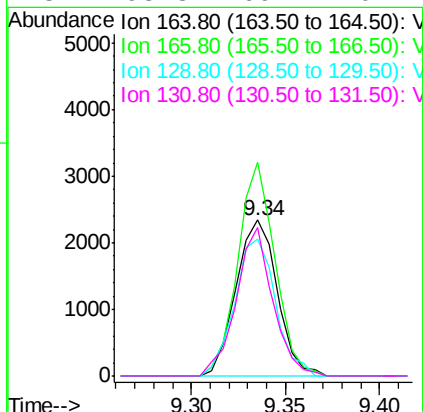
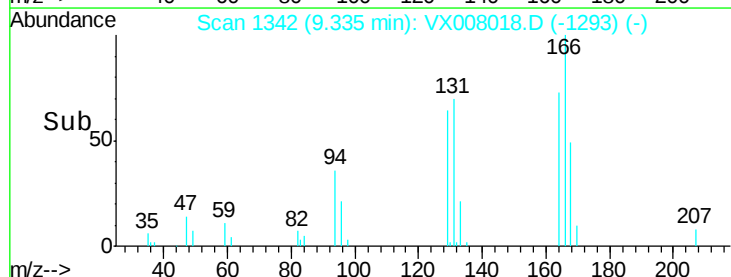
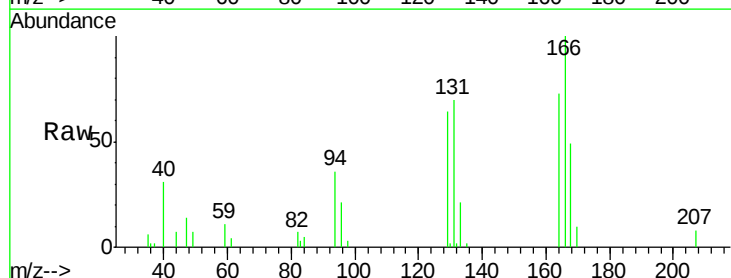
Instrument :
MSVOA_X
ClientSampleId :
RE125D1-20190308DL

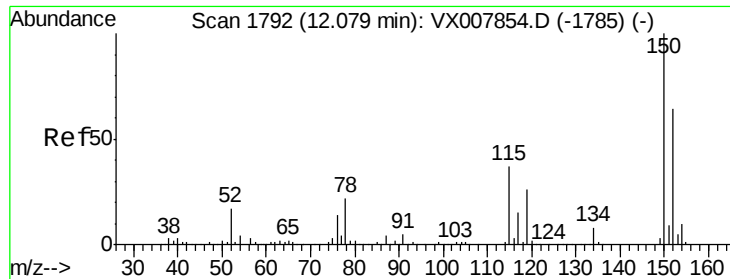
Tot Ion:117 Resp: 331800
Ion Ratio Lower Upper
117 100
82 55.4 44.3 66.5
119 32.0 25.3 37.9



#64
Tetrachloroethene
Concen: 1.293 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. 0.00 min
Lab File: VX008018.D
Acq: 12 Mar 2019 16:07

Tgt Ion:164 Resp: 3555
Ion Ratio Lower Upper
164 100
166 137.2 103.4 155.0
129 88.2 72.2 108.4
131 95.3 69.4 104.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX008018.D

Acq: 12 Mar 2019 16:07

Instrument :

MSVOA_X

ClientSampleId :

RE125D1-20190308DL

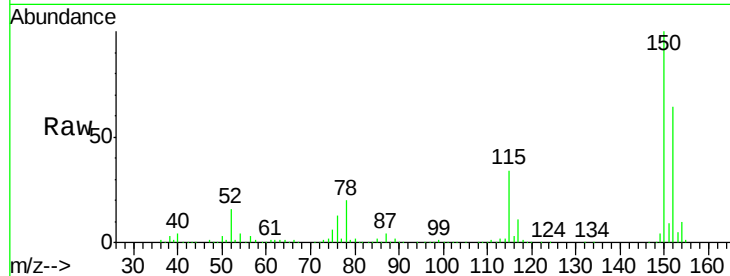
Tot Ion:152 Resp: 171837

Ion Ratio Lower Upper

152 100

115 54.6 38.6 115.7

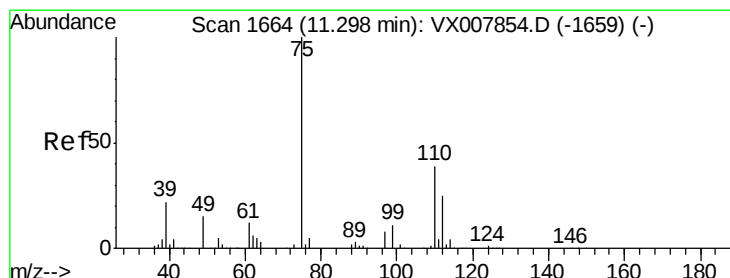
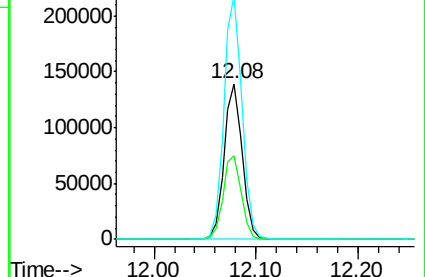
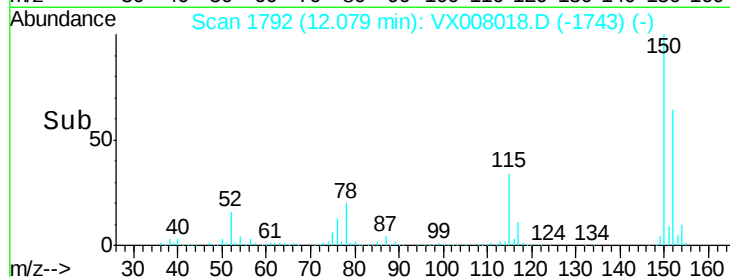
150 156.7 0.0 348.4



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: 20.393 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008018.D

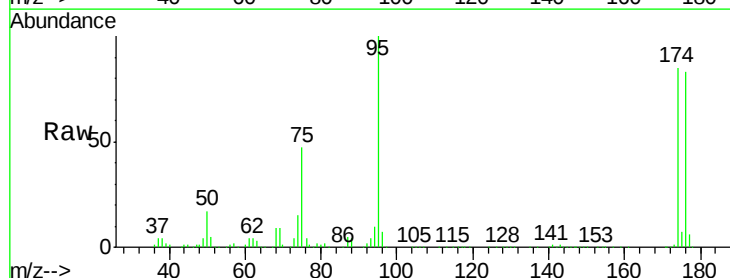
Acq: 12 Mar 2019 16:07

Tgt Ion: 75 Resp: 73533

Ion Ratio Lower Upper

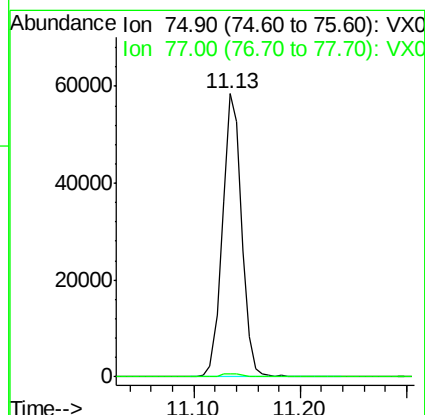
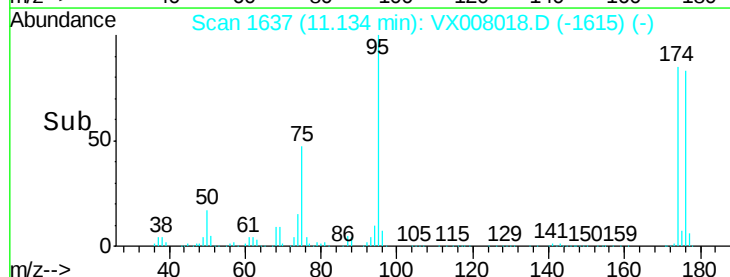
75 100

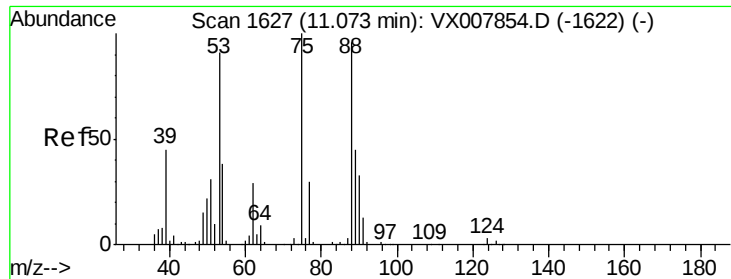
77 1.3 18.9 56.7#



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: 65.185 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008018.D

Acq: 12 Mar 2019 16:07

Instrument :

MSVOA_X

ClientSampleId :

RE125D1-20190308DL

Tot Ion: 75 Resp: 73533

Ion Ratio Lower Upper

75 100

53 0.1 76.1 114.1#

89 0.0 36.3 54.5#

