

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX102618\
 Data File : VX005635.D
 Acq On : 27 Oct 2018 05:34
 Operator : JC/MD
 Sample : J5692-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SA-PZ172I-20181024

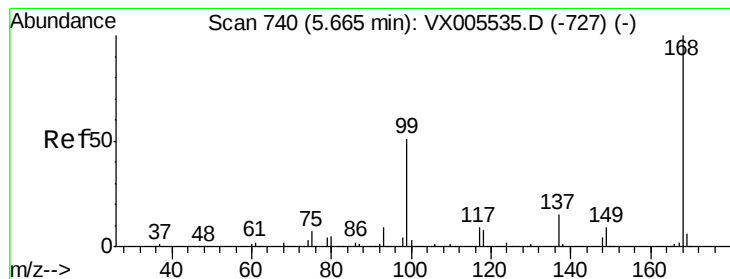
Quant Time: Oct 27 06:05:42 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X102418W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 25 02:52:45 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	244132	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	379966	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	315774	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	208196	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	149896	50.30	ug/l	0.00
Spiked Amount			Recovery	=	100.60%	
35) Dibromofluoromethane	5.50	113	119715	46.53	ug/l	0.00
Spiked Amount			Recovery	=	93.06%	
50) Toluene-d8	8.72	98	411550	44.52	ug/l	0.00
Spiked Amount			Recovery	=	89.04%	
62) 4-Bromofluorobenzene	11.14	95	146048	41.83	ug/l	0.00
Spiked Amount			Recovery	=	83.66%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	466	0.248	ug/l #	60
6) Chloroethane	1.73	64	15941	8.270	ug/l	94
10) Methyl Iodide	2.52	142	227	2.811	ug/l #	81
11) Tert butyl alcohol	3.06	59	644	0.803	ug/l #	72
12) 1,1-Dichloroethene	2.38	96	9624	4.200	ug/l	92
16) Acetone	2.45	43	489	0.311	ug/l #	78
18) Methyl Acetate	2.78	43	176	Below Cal		92
24) 1,1-Dichloroethane	3.70	63	316060	65.088	ug/l	98
31) Cyclohexane	5.66	56	4508	1.122	ug/l #	1
32) 1,1,1-Trichloroethane	5.50	97	11131	2.777	ug/l	97
36) 1,1-Dichloropropene	5.66	75	17480	4.740	ug/l #	50
38) Carbon Tetrachloride	5.66	117	22375	5.761	ug/l #	17
68) m/p-Xylenes	10.36	106	898	0.209	ug/l	93
76) 1,2,3-Trichloropropane	11.14	75	71696	16.253	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.14	75	71696	53.108	ug/l #	9
85) sec-Butylbenzene	11.94	105	4734	0.366	ug/l	78
87) 1,3-Dichlorobenzene	12.02	146	1555	0.233	ug/l	92
88) 1,4-Dichlorobenzene	12.02	146	1555	0.223	ug/l	91
91) 1,2-Dichlorobenzene	12.40	146	2348	0.348	ug/l	93
93) 1,2,4-Trichlorobenzene	13.65	180	6307	1.289	ug/l	96
95) Naphthalene	13.83	128	3319	0.233	ug/l #	87
96) 1,2,3-Trichlorobenzene	14.02	180	2107	0.425	ug/l #	78

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX005635.D

Acq: 27 Oct 2018 05:34

Instrument :

MSVOA_X

ClientSampleId :

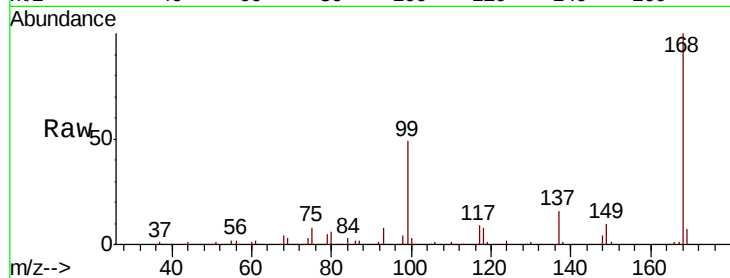
SA-PZ172I-20181024

Tot Ion:168 Resp: 244132

Ion Ratio Lower Upper

168 100

99 49.0 40.7 61.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

80000

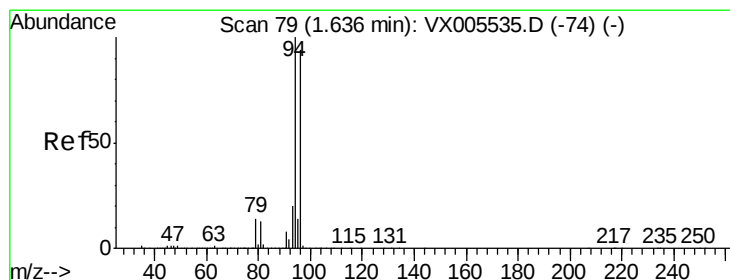
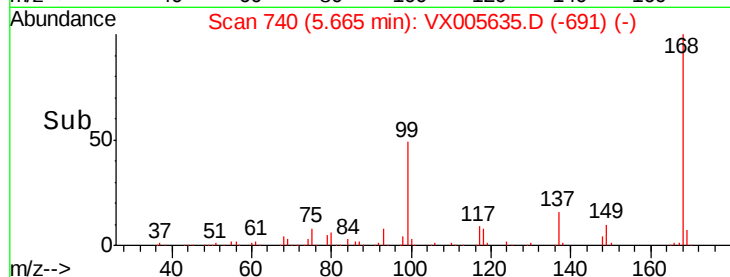
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.248 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX005635.D

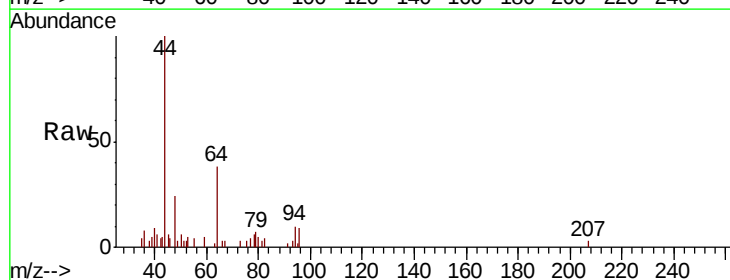
Acq: 27 Oct 2018 05:34

Tgt Ion: 94 Resp: 466

Ion Ratio Lower Upper

94 100

96 55.0 75.2 112.8#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

250

200

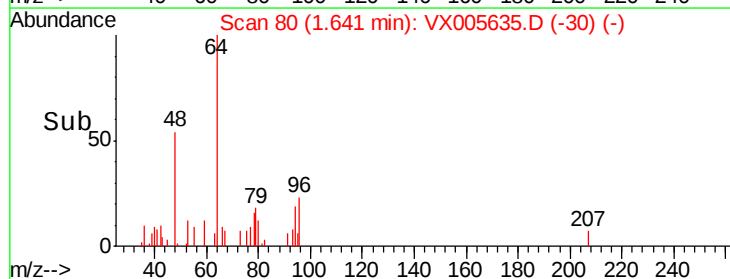
150

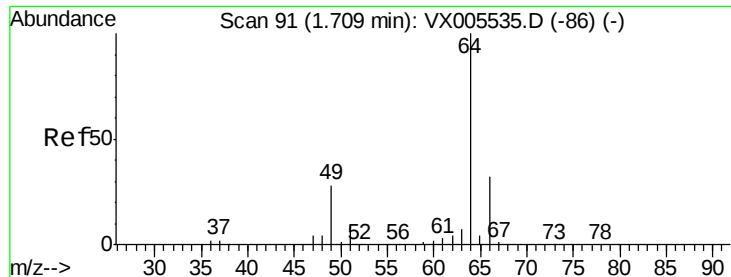
100

50

0

Time--> 1.60 1.65 1.70





#6

Chloroethane

Concen: 8.270 ug/l

RT: 1.73 min Scan# 94

Delta R.T. 0.02 min

Lab File: VX005635.D

Acq: 27 Oct 2018 05:34

Instrument :

MSVOA_X

ClientSampleId :

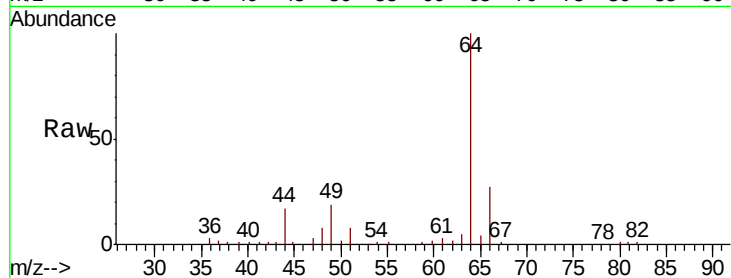
SA-PZ172I-20181024

Tot Ion: 64 Resp: 15941

Ion Ratio Lower Upper

64 100

66 29.0 25.8 38.6



Abundance Ion 63.90 (63.60 to 64.60): VX005535.D (-86) (-)

Ion 65.90 (65.60 to 66.60): VX005535.D (-86) (-)

1.73

15000

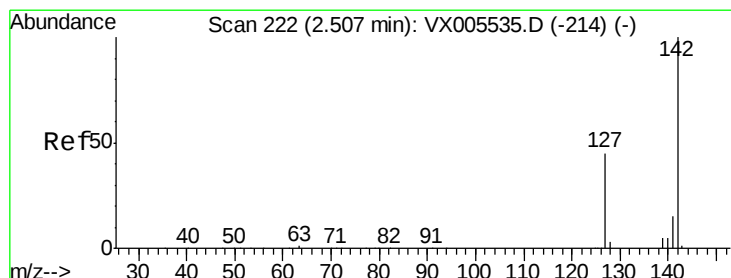
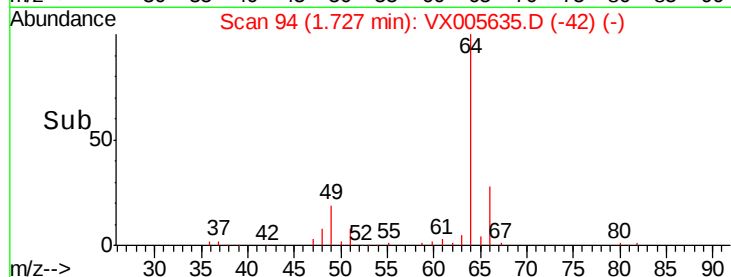
10000

5000

0

Time-->

1.65 1.70 1.75 1.80



#10

Methyl Iodide

Concen: 2.811 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX005635.D

Acq: 27 Oct 2018 05:34

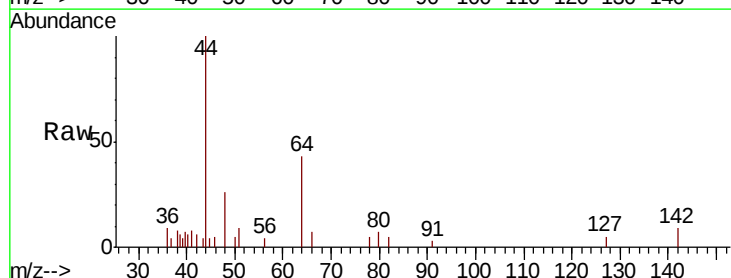
Tgt Ion: 142 Resp: 227

Ion Ratio Lower Upper

142 100

127 35.7 36.0 54.0#

141 0.0 11.7 17.5#



Abundance Ion 141.80 (141.50 to 142.50): VX005535.D (-214) (-)

Ion 126.80 (126.50 to 127.50): VX005535.D (-214) (-)

Ion 140.80 (140.50 to 141.50): VX005535.D (-214) (-)

2.52

150

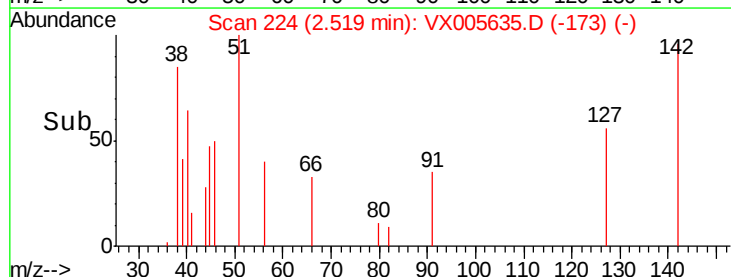
100

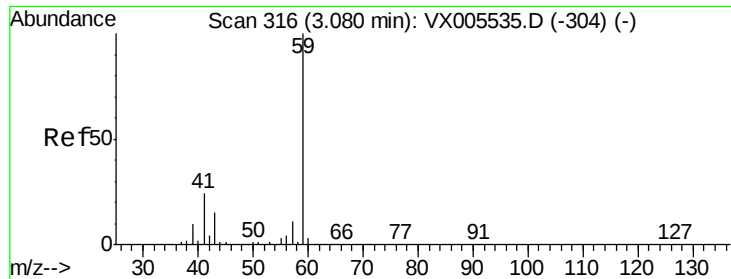
50

0

Time-->

2.50 2.55

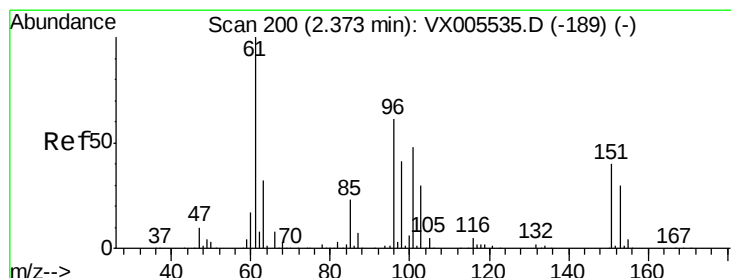
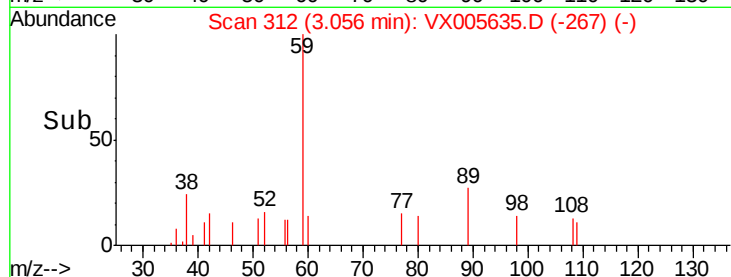
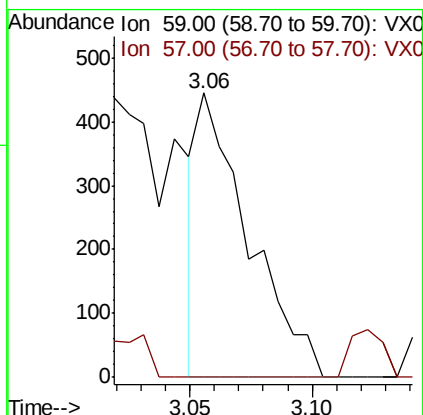
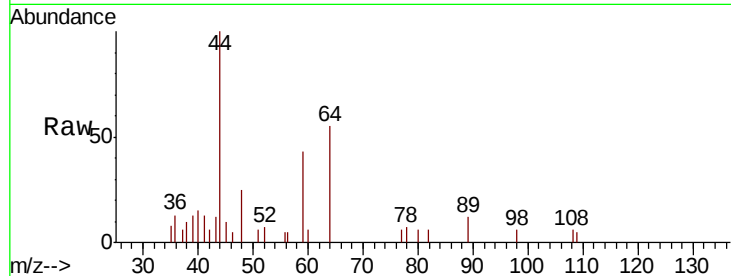




#11
Tert butyl alcohol
Concen: 0.803 ug/l
RT: 3.06 min Scan# 312
Delta R.T. -0.02 min
Lab File: VX005635.D
Acq: 27 Oct 2018 05:34

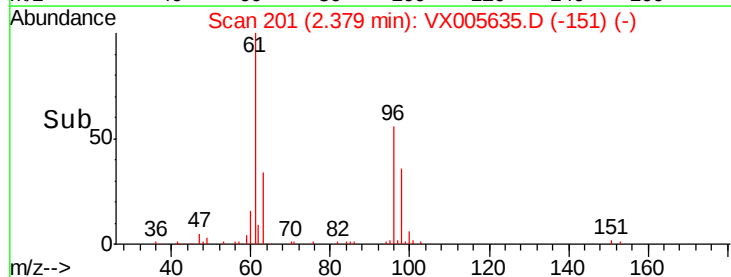
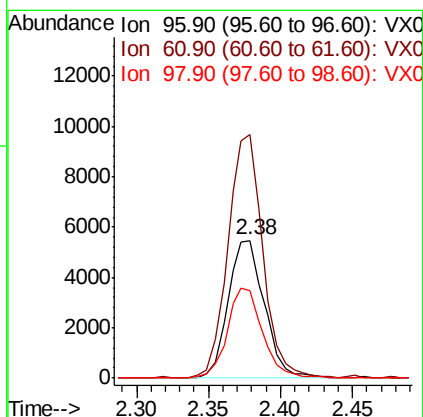
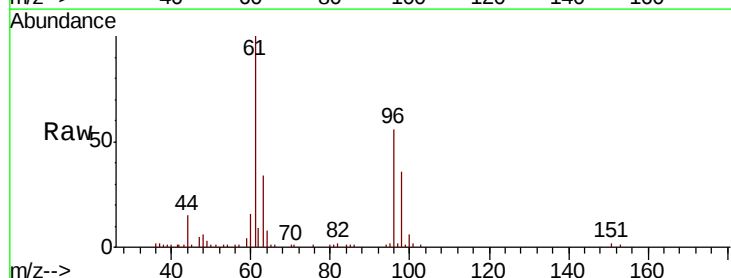
Instrument :
MSVOA_X
ClientSampleId :
SA-PZ172I-20181024

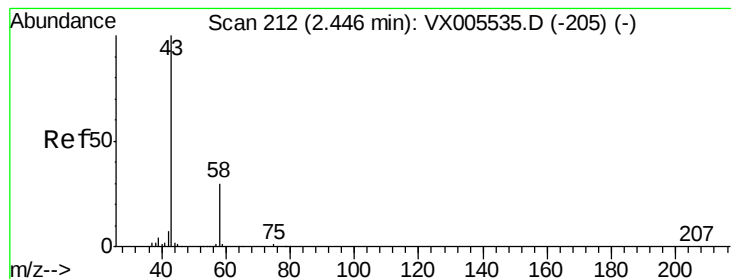
Tot Ion: 59 Resp: 644
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#



#12
1,1-Dichloroethene
Concen: 4.200 ug/l
RT: 2.38 min Scan# 201
Delta R.T. 0.01 min
Lab File: VX005635.D
Acq: 27 Oct 2018 05:34

Tgt Ion: 96 Resp: 9624
Ion Ratio Lower Upper
96 100
61 177.2 131.8 197.8
98 63.5 53.4 80.2





#16

Acetone

Concen: 0.311 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX005635.D

Acq: 27 Oct 2018 05:34

Instrument :

MSVOA_X

ClientSampleId :

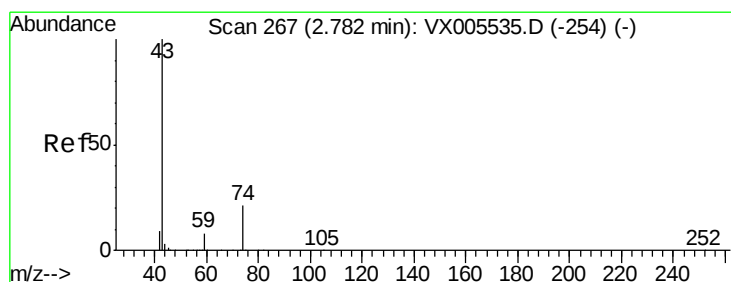
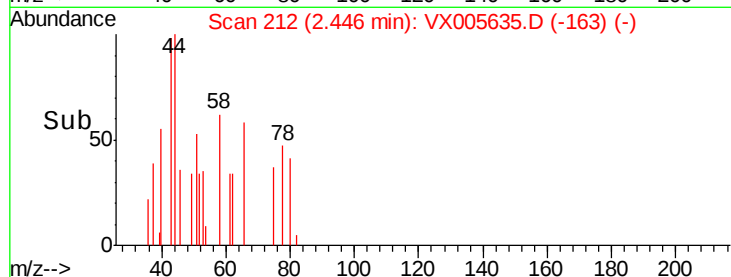
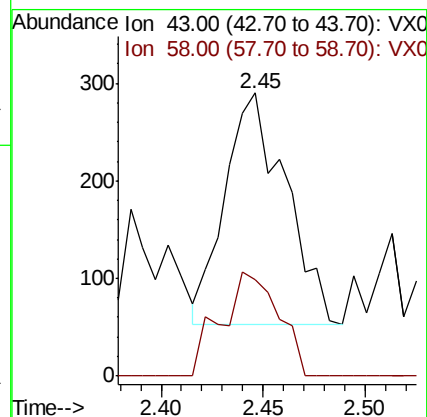
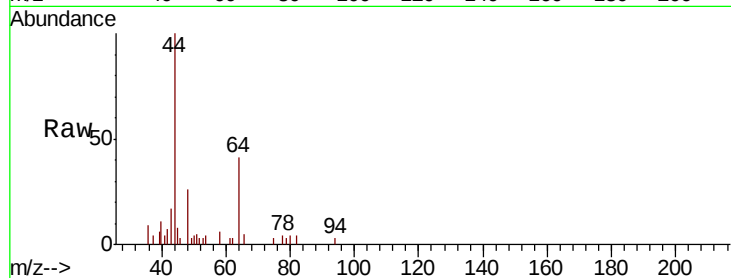
SA-PZ172I-20181024

Tot Ion: 43 Resp: 489

Ion Ratio Lower Upper

43 100

58 41.8 23.8 35.6#



#18

Methyl Acetate

Concen: Below Cal

RT: 2.78 min Scan# 267

Delta R.T. 0.00 min

Lab File: VX005635.D

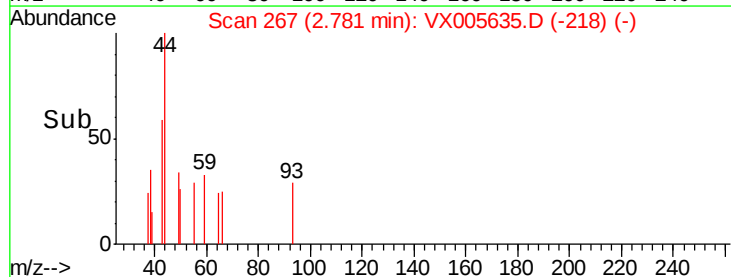
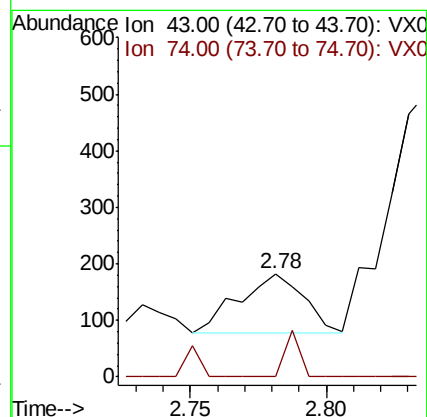
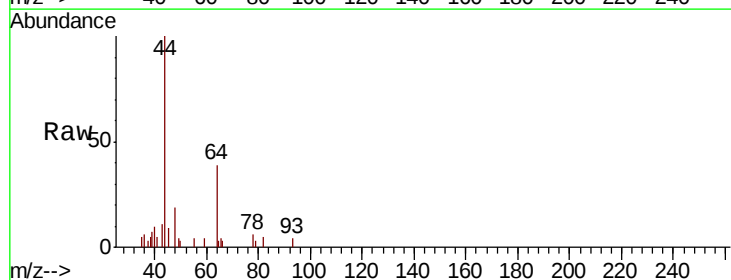
Acq: 27 Oct 2018 05:34

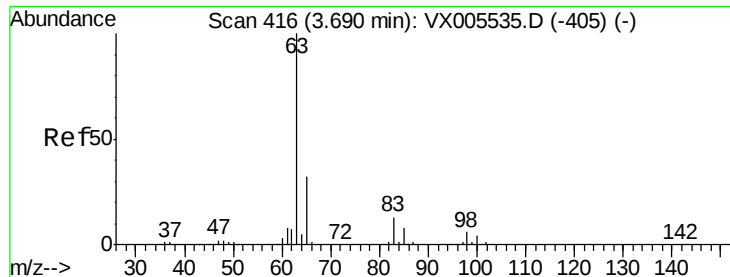
Tgt Ion: 43 Resp: 176

Ion Ratio Lower Upper

43 100

74 17.0 16.8 25.2





#24

1,1-Dichloroethane

Concen: 65.088 ug/l

RT: 3.70 min Scan# 417

Delta R.T. 0.01 min

Lab File: VX005635.D

Acq: 27 Oct 2018 05:34

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ172I-20181024

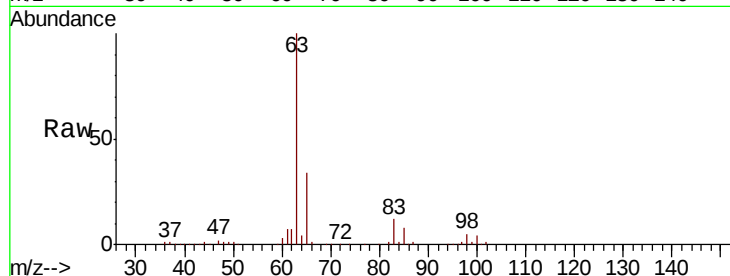
Tot Ion: 63 Resp: 316060

Ion Ratio Lower Upper

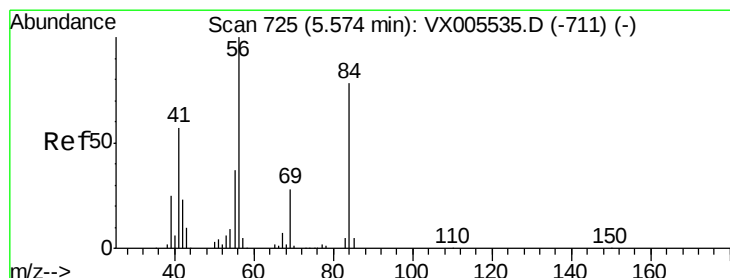
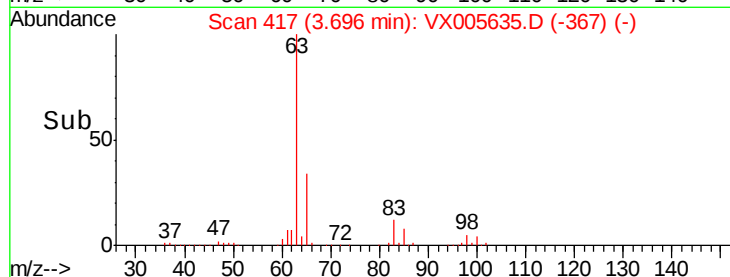
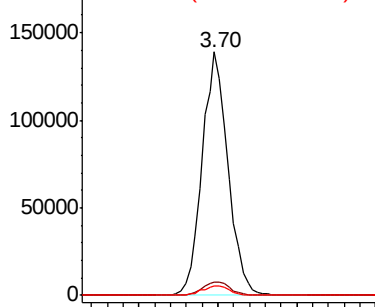
63 100

98 5.4 3.2 9.6

100 3.7 2.1 6.2



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



#31

Cyclohexane

Concen: 1.122 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.08 min

Lab File: VX005635.D

Acq: 27 Oct 2018 05:34

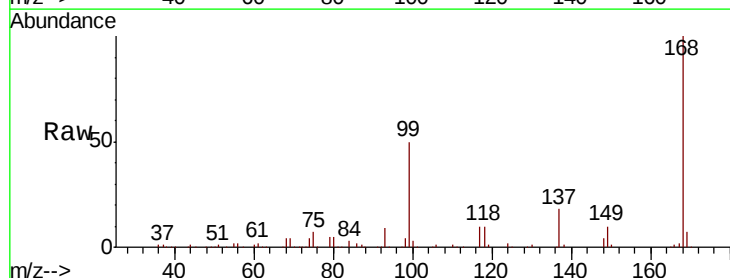
Tgt Ion: 56 Resp: 4508

Ion Ratio Lower Upper

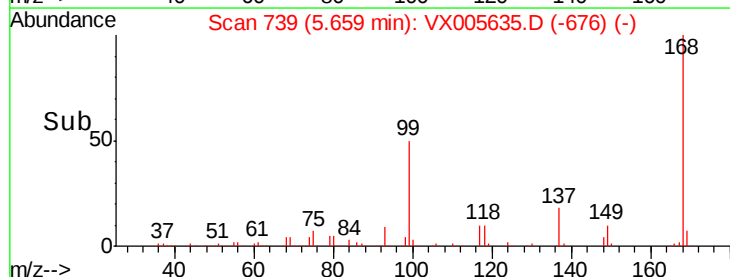
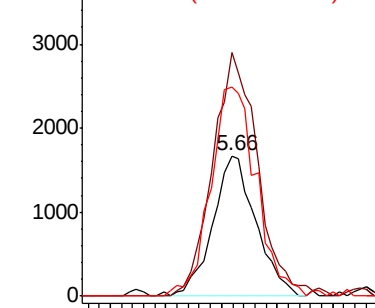
56 100

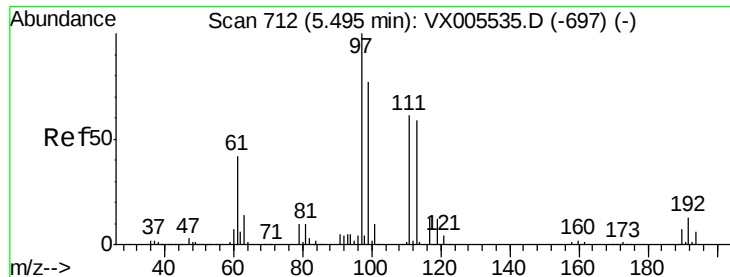
69 173.5 22.6 34.0#

84 148.5 62.7 94.1#



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: 2.777 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.01 min

Lab File: VX005635.D

Acq: 27 Oct 2018 05:34

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ172I-20181024

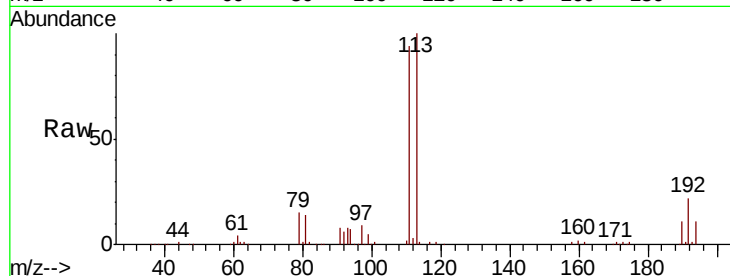
Tot Ion: 97 Resp: 11131

Ion Ratio Lower Upper

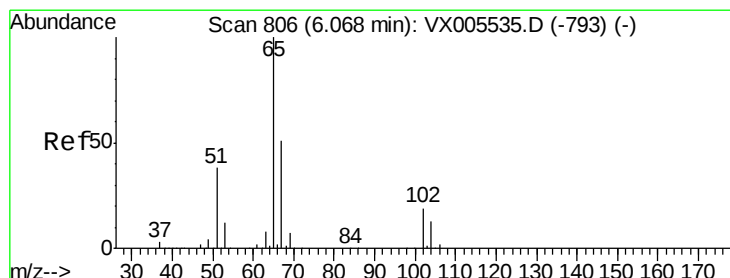
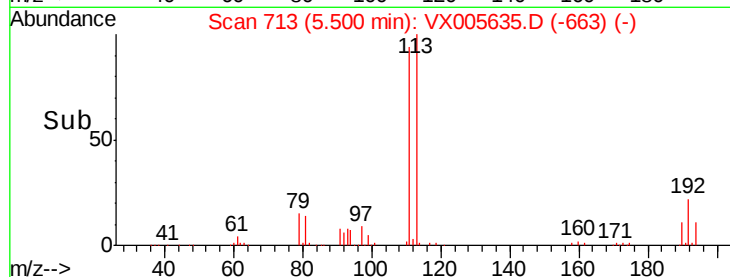
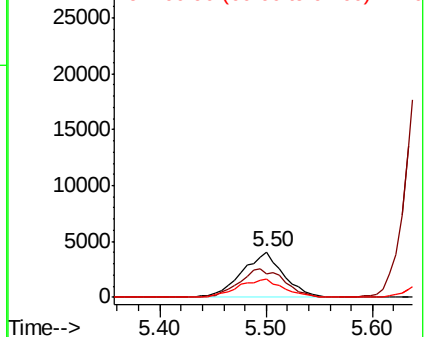
97 100

99 69.1 52.3 78.5

61 43.7 35.2 52.8



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: 50.299 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.01 min

Lab File: VX005635.D

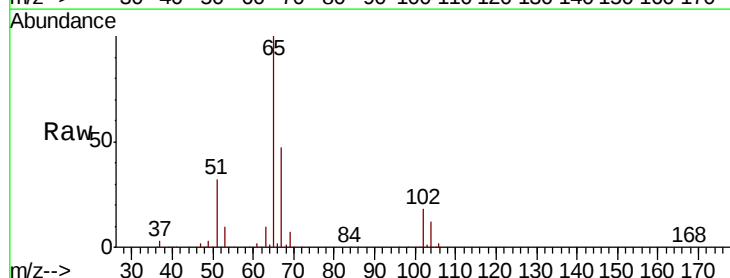
Acq: 27 Oct 2018 05:34

Tgt Ion: 65 Resp: 149896

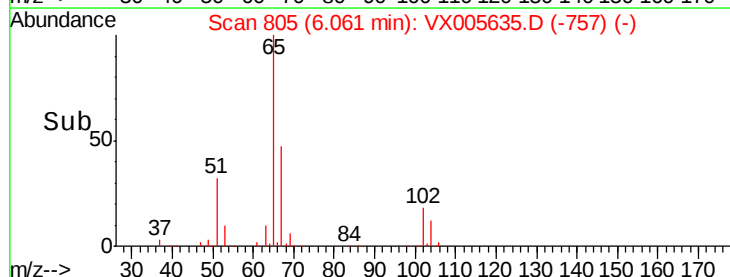
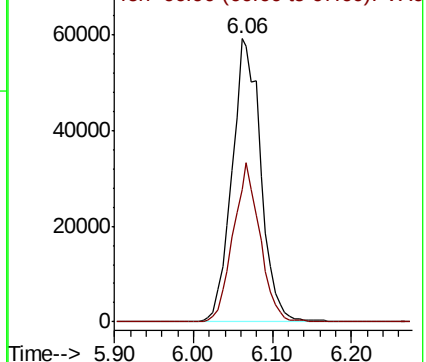
Ion Ratio Lower Upper

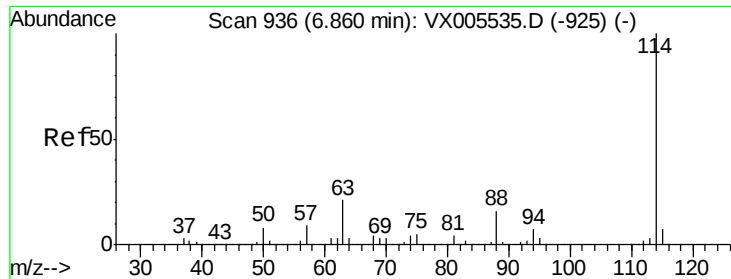
65 100

67 52.6 0.0 105.0



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0

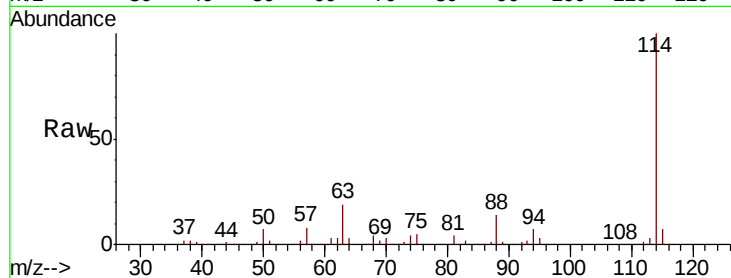




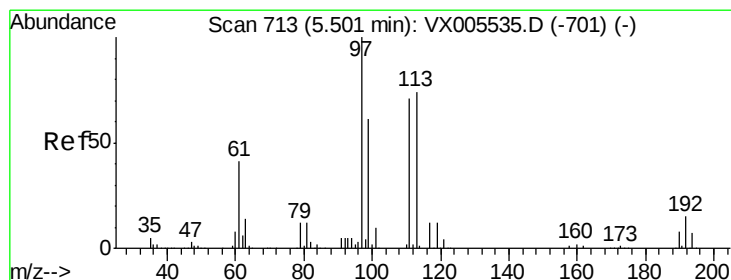
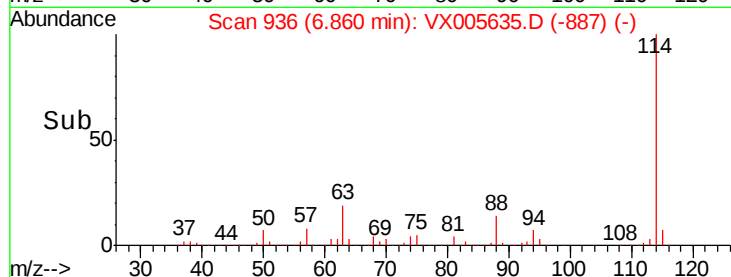
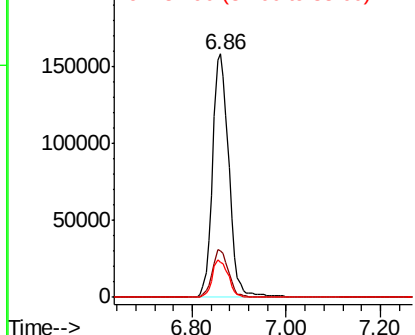
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX005635.D
 Acq: 27 Oct 2018 05:34

Instrument :
 MSVOA_X
 ClientSampleId :
 SA-PZ172I-20181024

Tot Ion:114 Resp: 379966
 Ion Ratio Lower Upper
 114 100
 63 18.9 0.0 42.8
 88 14.4 0.0 31.2

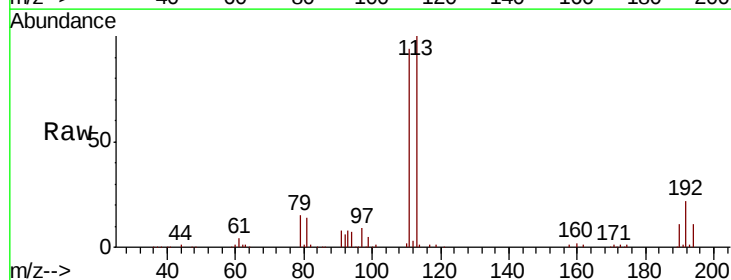


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

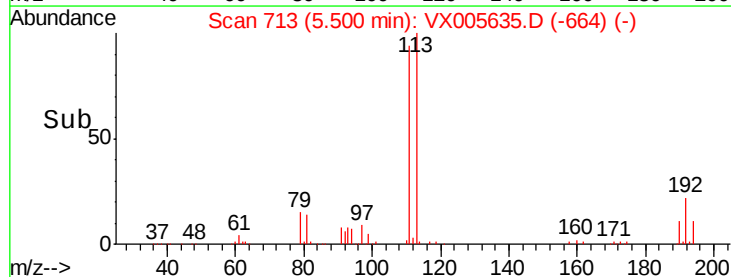
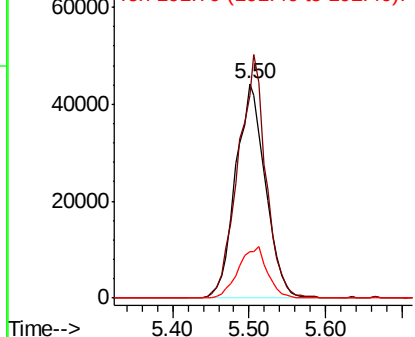


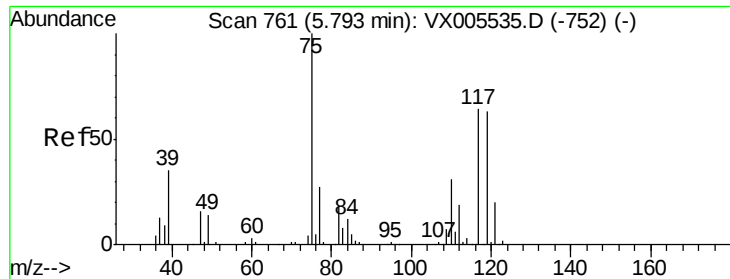
#35
 Dibromofluoromethane
 Concen: 46.531 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX005635.D
 Acq: 27 Oct 2018 05:34

Tgt Ion:113 Resp: 119715
 Ion Ratio Lower Upper
 113 100
 111 105.5 82.3 123.5
 192 23.2 17.9 26.9



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

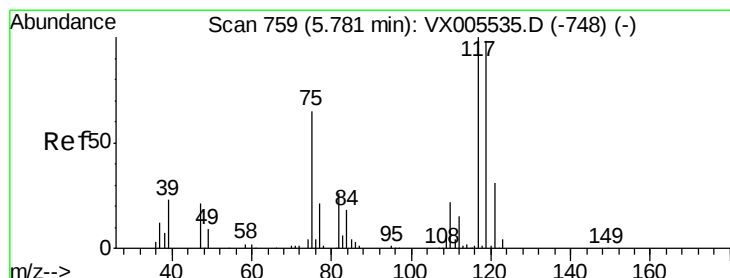
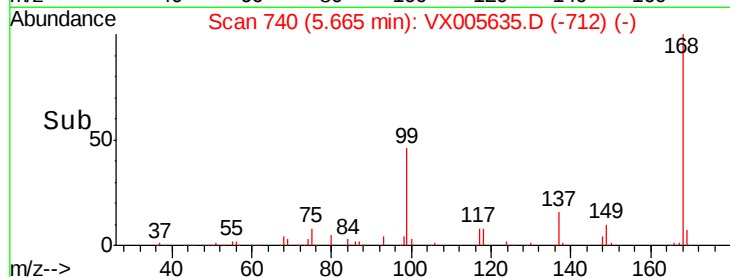
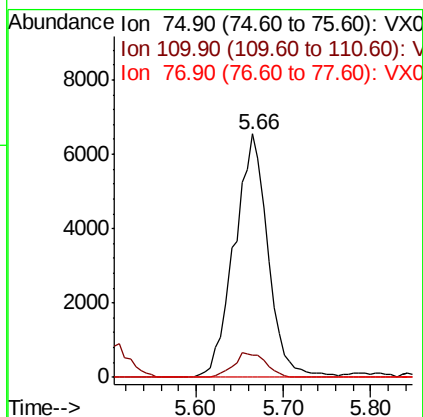
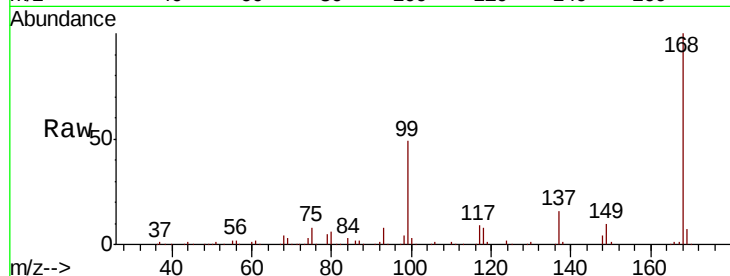




#36
 1,1-Dichloropropene
 Concen: 4.740 ug/l
 RT: 5.66 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX005635.D
 Acq: 27 Oct 2018 05:34

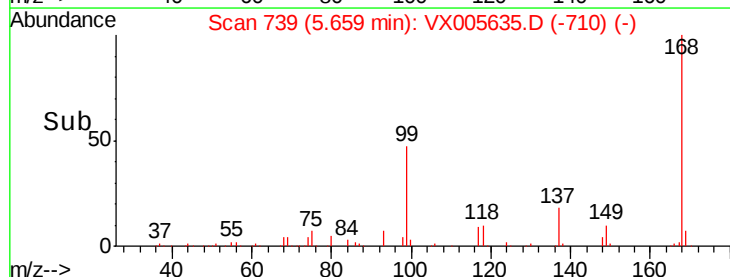
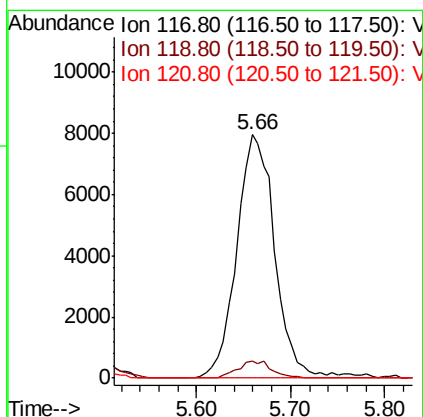
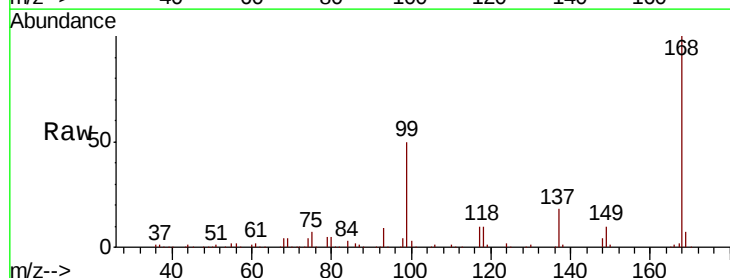
Instrument :
 MSVOA_X
 ClientSampleId :
 SA-PZ172I-20181024

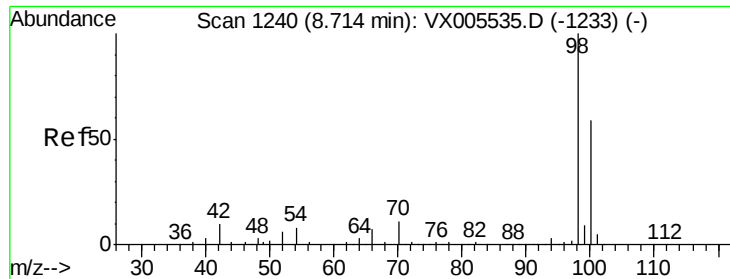
Tot Ion: 75 Resp: 17480
 Ion Ratio Lower Upper
 75 100
 110 9.6 17.4 52.2#
 77 0.0 25.8 38.6#



#38
 Carbon Tetrachloride
 Concen: 5.761 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.12 min
 Lab File: VX005635.D
 Acq: 27 Oct 2018 05:34

Tgt Ion: 117 Resp: 22375
 Ion Ratio Lower Upper
 117 100
 119 7.0 78.1 117.1#
 121 0.0 24.6 36.8#

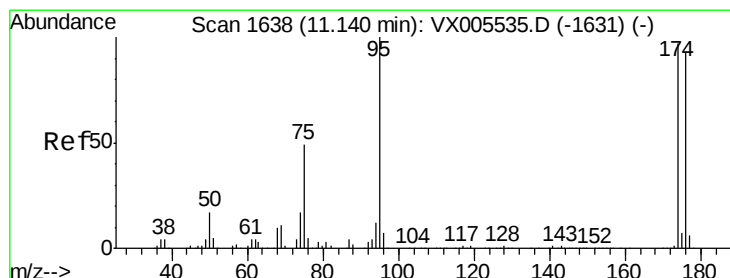
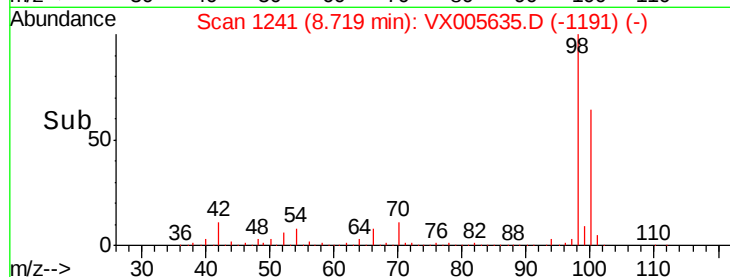
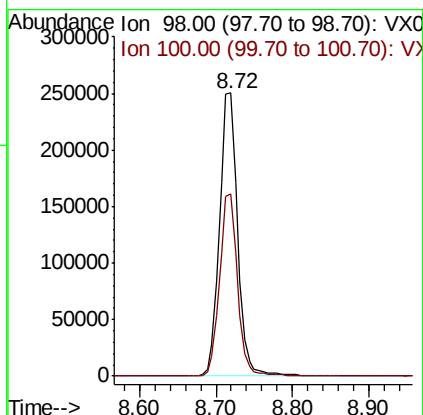
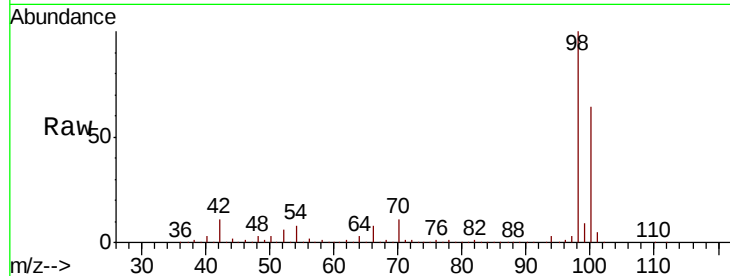




#50
Toluene-d8
Concen: 44.518 ug/l
RT: 8.72 min Scan# 1241
Delta R.T. 0.01 min
Lab File: VX005635.D
Acq: 27 Oct 2018 05:34

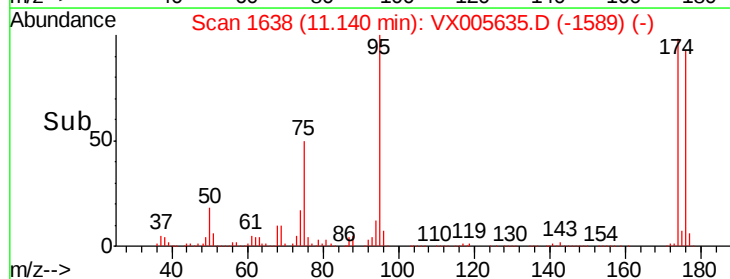
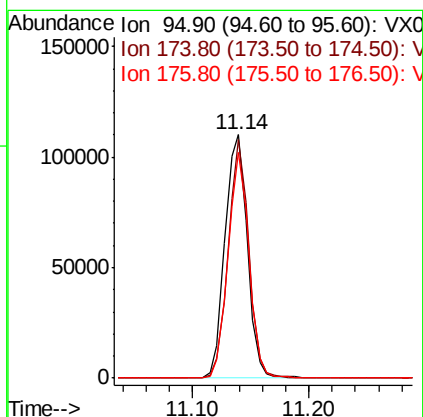
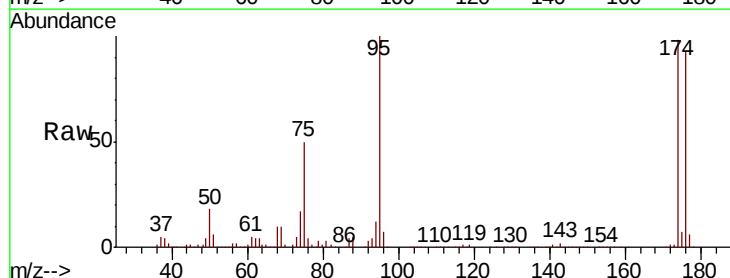
Instrument :
MSVOA_X
ClientSampleId :
SA-PZ172I-20181024

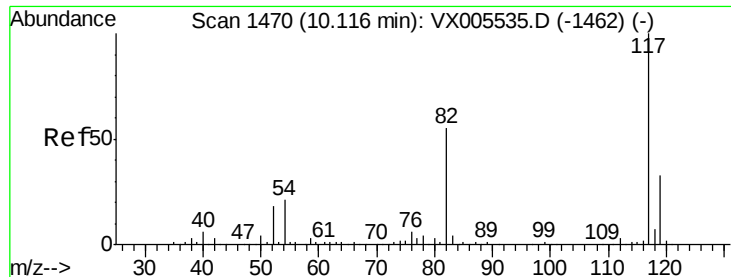
Tot Ion: 98 Resp: 411550
Ion Ratio Lower Upper
98 100
100 64.0 51.3 76.9



#62
4-Bromofluorobenzene
Concen: 41.833 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.00 min
Lab File: VX005635.D
Acq: 27 Oct 2018 05:34

Tgt Ion: 95 Resp: 146048
Ion Ratio Lower Upper
95 100
174 91.0 0.0 184.4
176 87.4 0.0 177.4

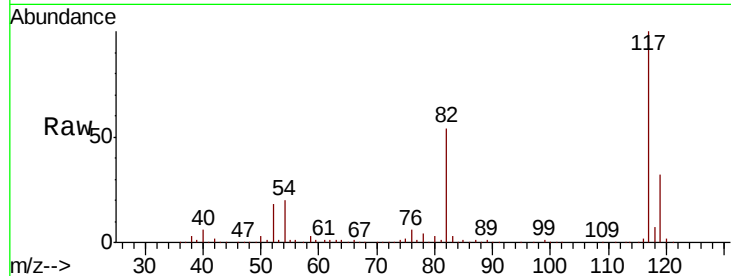




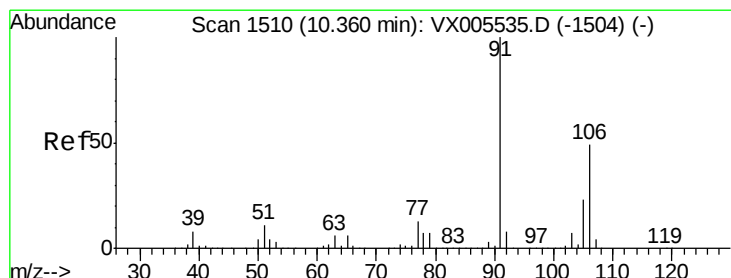
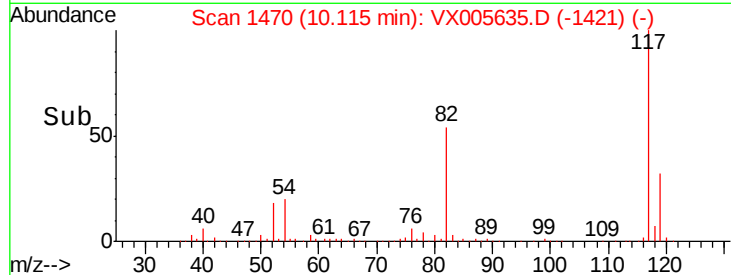
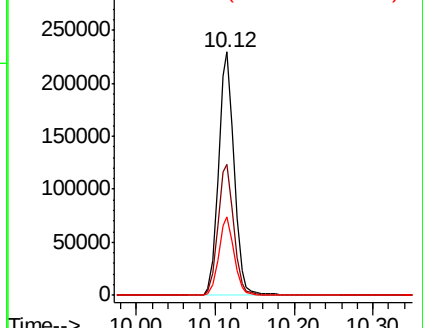
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX005635.D
Acq: 27 Oct 2018 05:34

Instrument :
MSVOA_X
ClientSampleId :
SA-PZ172I-20181024

Tot Ion:117 Resp: 315774
Ion Ratio Lower Upper
117 100
82 53.9 44.1 66.1
119 32.1 26.2 39.2

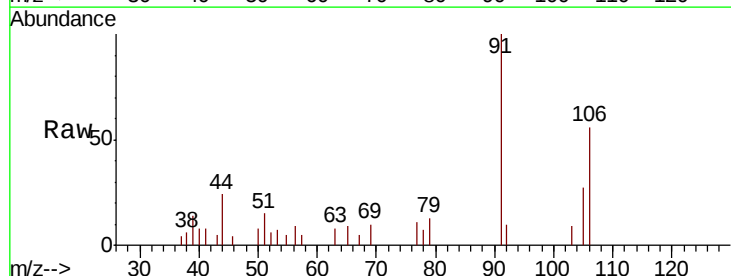


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

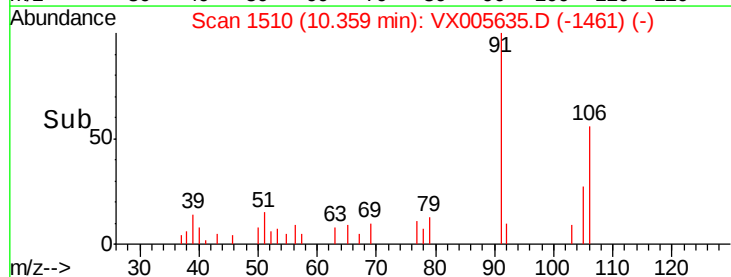
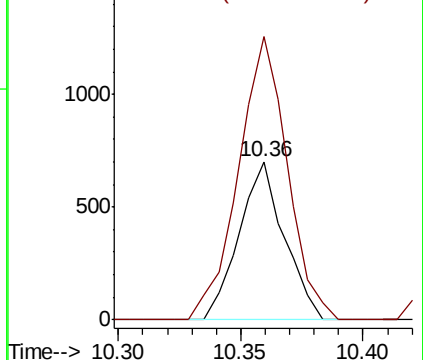


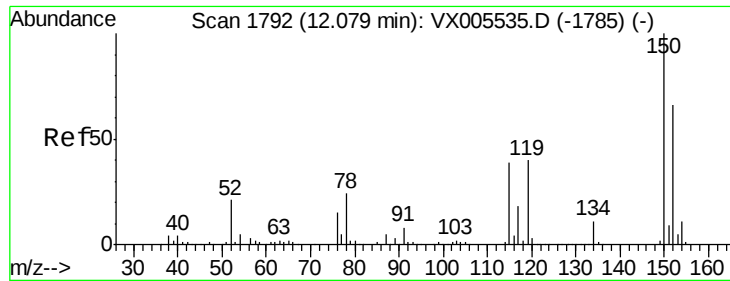
#68
m/p-Xylenes
Concen: 0.209 ug/l
RT: 10.36 min Scan# 1510
Delta R.T. -0.00 min
Lab File: VX005635.D
Acq: 27 Oct 2018 05:34

Tgt Ion:106 Resp: 898
Ion Ratio Lower Upper
106 100
91 194.8 164.2 246.4



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX005635.D

Acq: 27 Oct 2018 05:34

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ172I-20181024

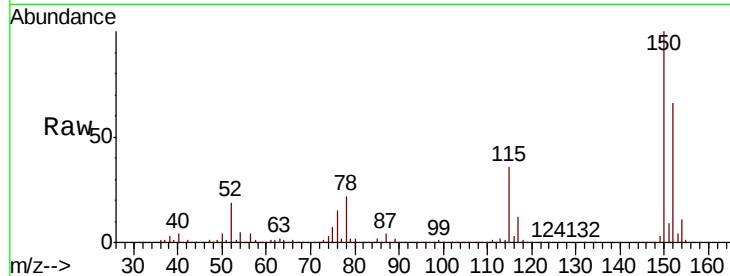
Tot Ion:152 Resp: 208196

Ion Ratio Lower Upper

152 100

115 54.8 39.4 118.1

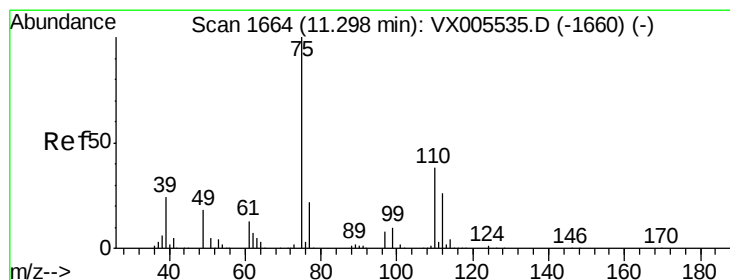
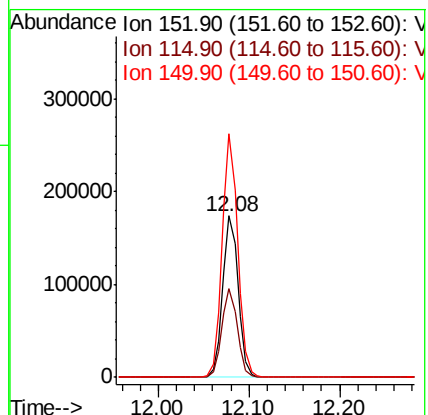
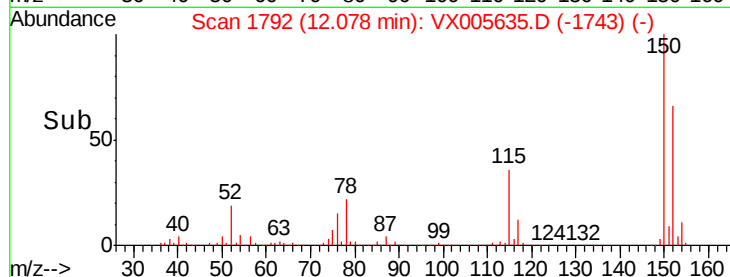
150 151.4 0.0 346.4



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: 16.253 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005635.D

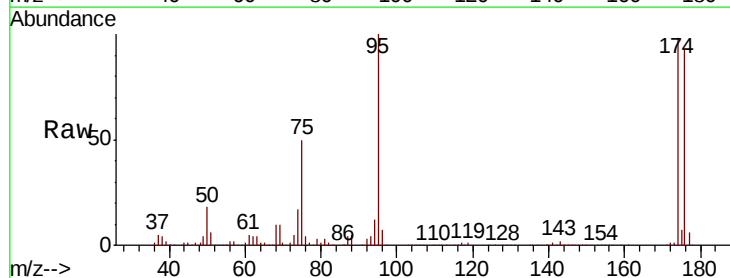
Acq: 27 Oct 2018 05:34

Tgt Ion: 75 Resp: 71696

Ion Ratio Lower Upper

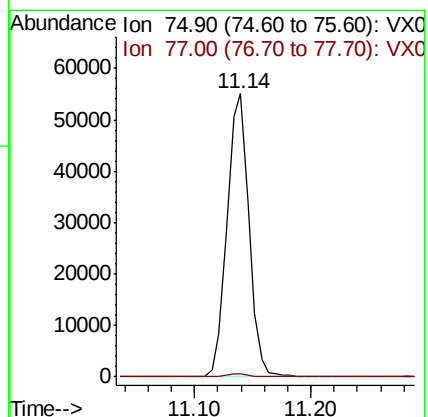
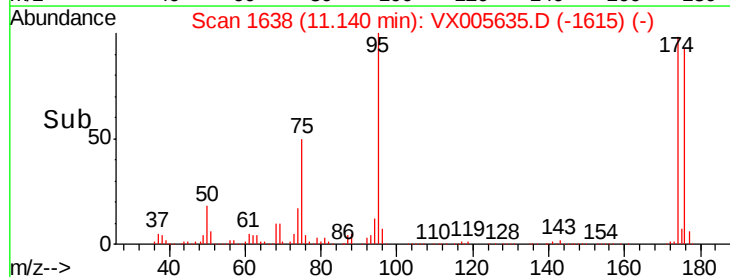
75 100

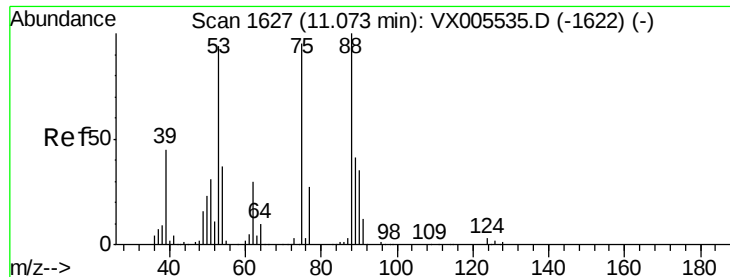
77 1.3 20.5 61.6#



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: 53.108 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX005635.D

Acq: 27 Oct 2018 05:34

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ172I-20181024

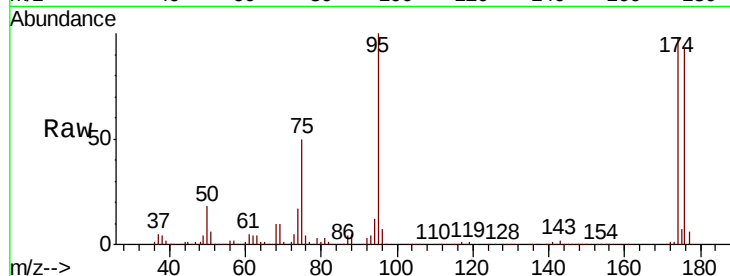
Tot Ion: 75 Resp: 71696

Ion Ratio Lower Upper

75 100

53 0.2 80.2 120.2#

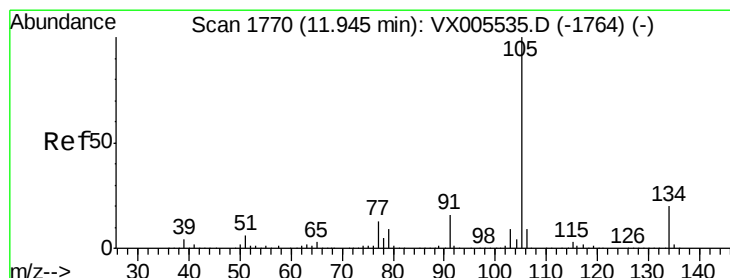
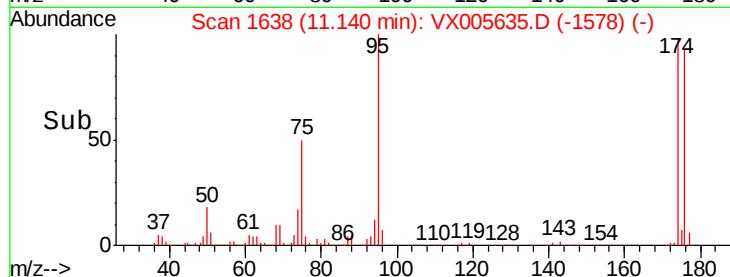
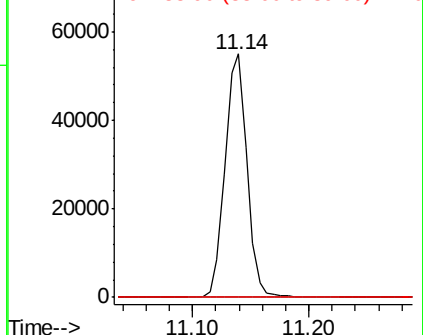
89 0.0 39.8 59.8#



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



#85

sec-Butylbenzene

Concen: 0.366 ug/l

RT: 11.94 min Scan# 1770

Delta R.T. -0.00 min

Lab File: VX005635.D

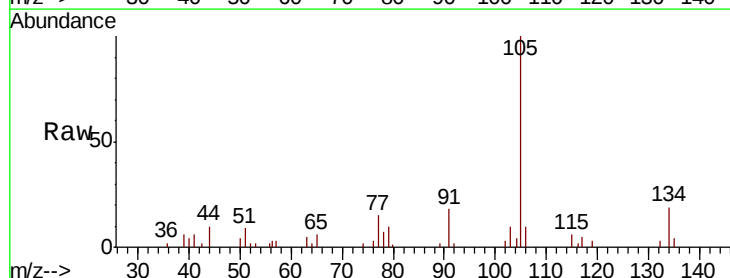
Acq: 27 Oct 2018 05:34

Tgt Ion: 105 Resp: 4734

Ion Ratio Lower Upper

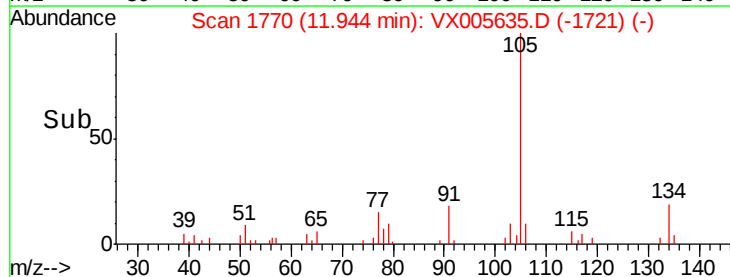
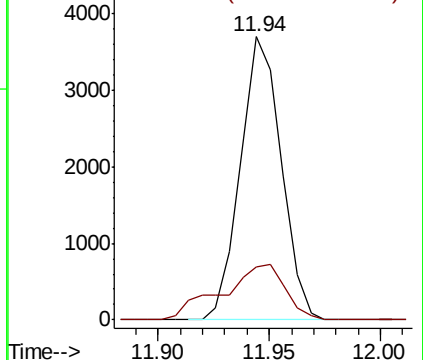
105 100

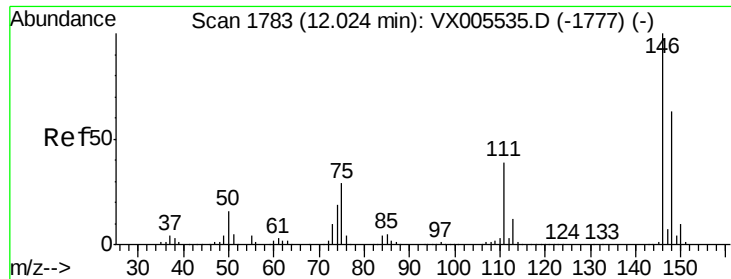
134 30.4 10.2 30.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

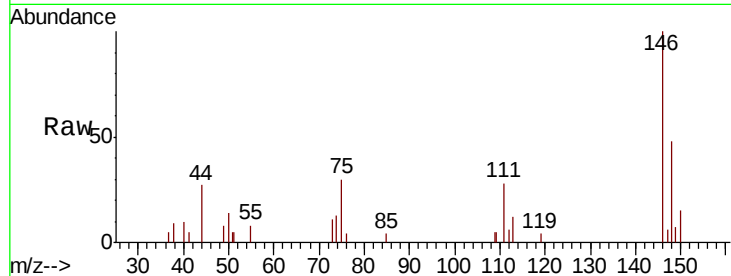




#87
 1,3-Dichlorobenzene
 Concen: 0.233 ug/l
 RT: 12.02 min Scan# 1783
 Delta R.T. -0.00 min
 Lab File: VX005635.D
 Acq: 27 Oct 2018 05:34

Instrument :
 MSVOA_X
 ClientSampleId :
 SA-PZ172I-20181024

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.6	19.0	57.0
148	54.5	31.9	95.9

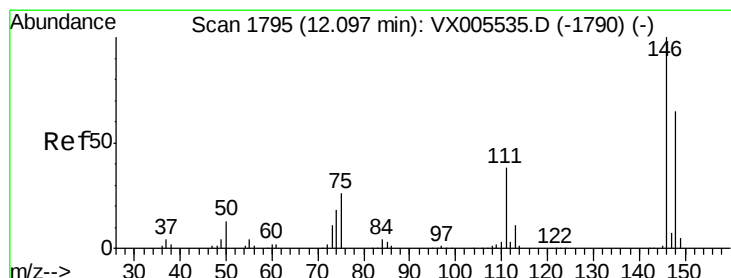
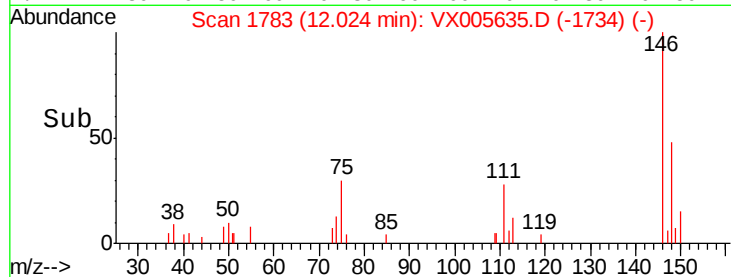
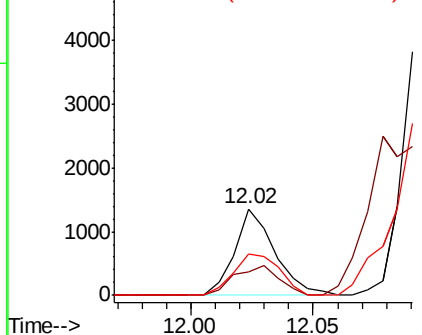


Abundance

Ion 145.90 (145.60 to 146.60): V

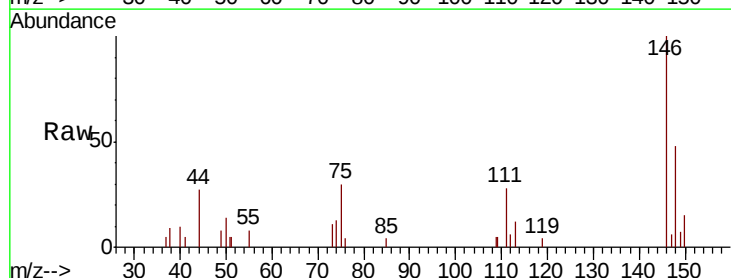
Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#88
 1,4-Dichlorobenzene
 Concen: 0.223 ug/l
 RT: 12.02 min Scan# 1783
 Delta R.T. -0.07 min
 Lab File: VX005635.D
 Acq: 27 Oct 2018 05:34

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.6	18.6	55.8
148	54.5	32.1	96.3

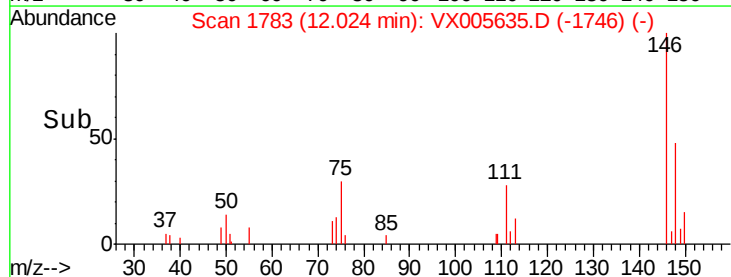
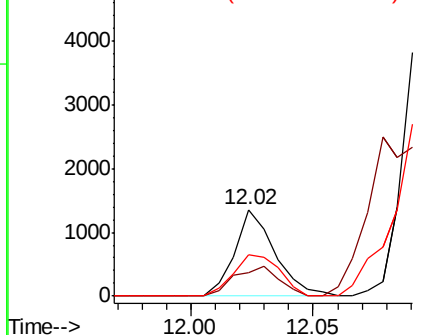


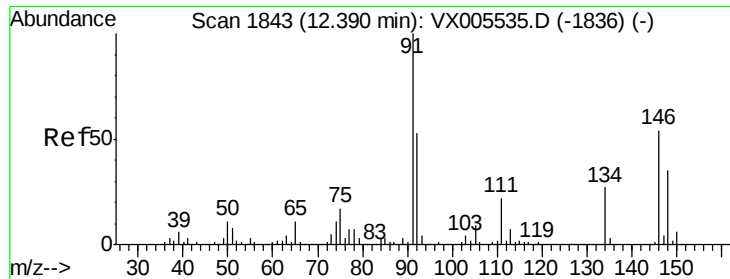
Abundance

Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

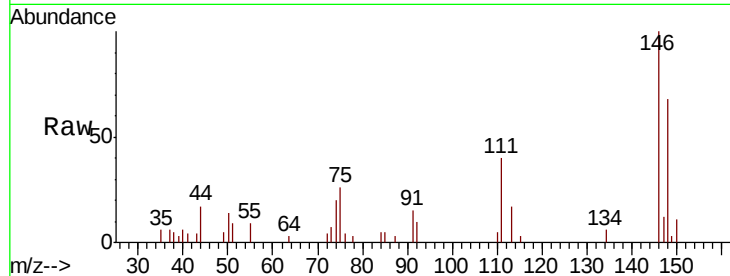




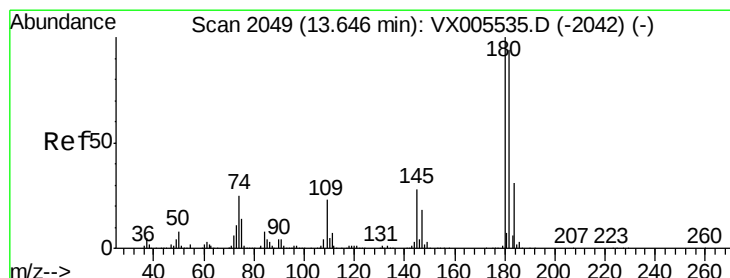
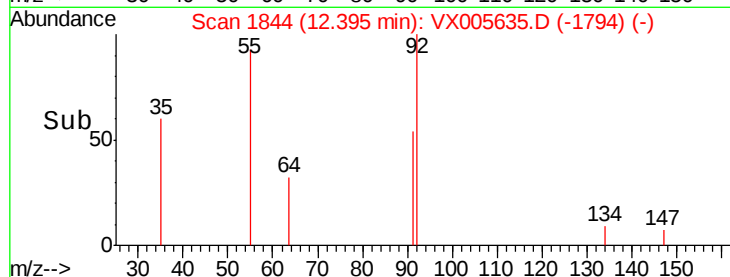
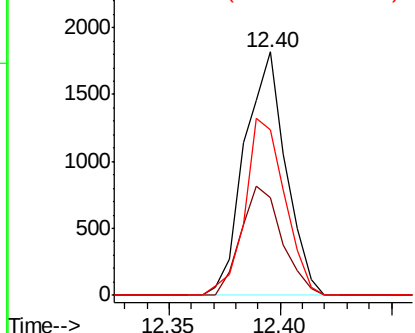
#91
 1,2-Dichlorobenzene
 Concen: 0.348 ug/l
 RT: 12.40 min Scan# 1844
 Delta R.T. 0.01 min
 Lab File: VX005635.D
 Acq: 27 Oct 2018 05:34

Instrument :
 MSVOA_X
 ClientSampleId :
 SA-PZ172I-20181024

Tot Ion:146 Resp: 2348
 Ion Ratio Lower Upper
 146 100
 111 44.5 20.0 59.9
 148 70.1 32.2 96.6

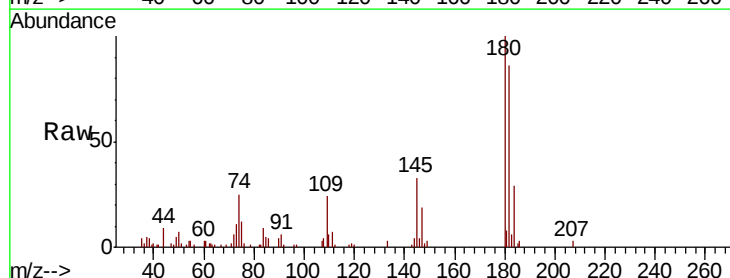


Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

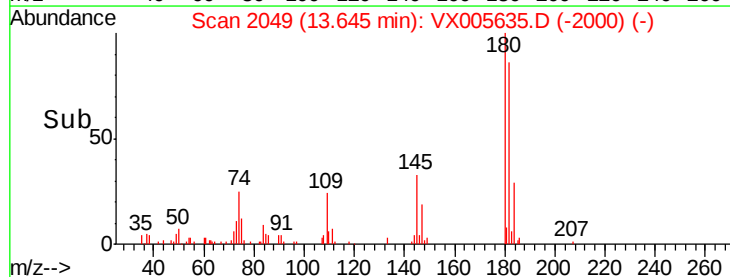
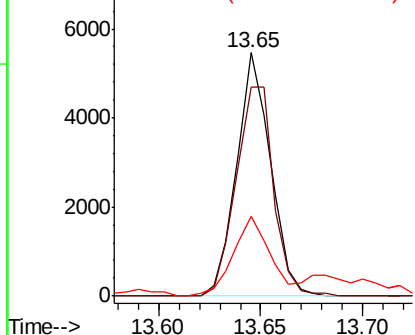


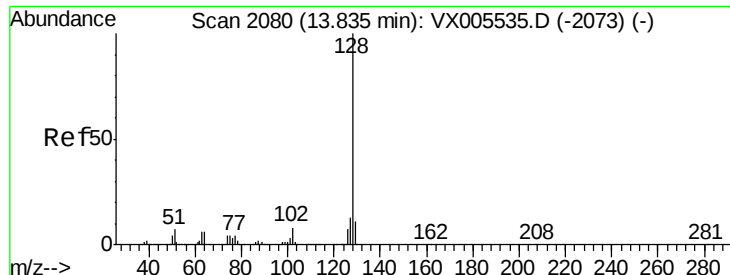
#93
 1,2,4-Trichlorobenzene
 Concen: 1.289 ug/l
 RT: 13.65 min Scan# 2049
 Delta R.T. -0.00 min
 Lab File: VX005635.D
 Acq: 27 Oct 2018 05:34

Tgt Ion:180 Resp: 6307
 Ion Ratio Lower Upper
 180 100
 182 95.1 47.6 142.8
 145 36.5 14.1 42.2



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

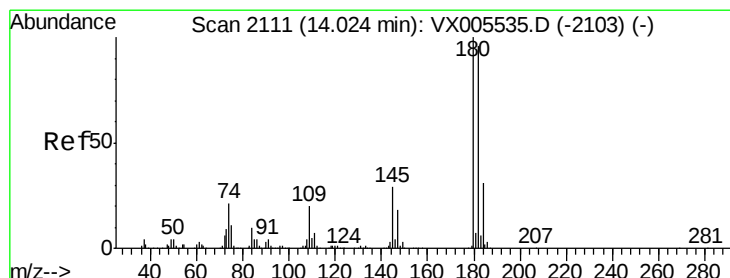
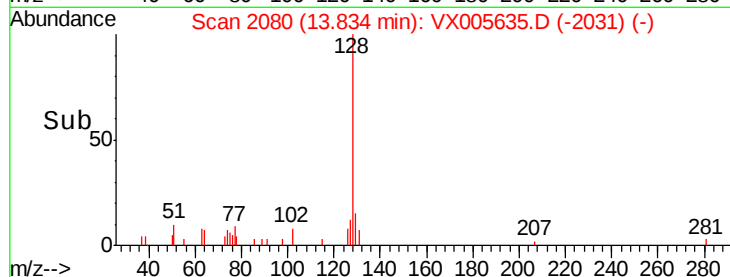
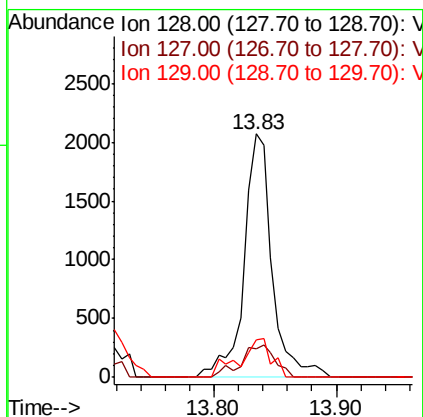
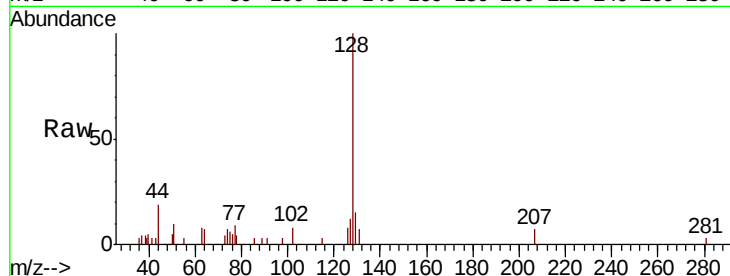




#95
Naphthalene
Concen: 0.233 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. -0.00 min
Lab File: VX005635.D
Acq: 27 Oct 2018 05:34

Instrument :
MSVOA_X
ClientSampleId :
SA-PZ172I-20181024

Tot Ion:128 Resp: 3319
Ion Ratio Lower Upper
128 100
127 16.4 10.4 15.6#
129 18.2 8.7 13.1#



#96
1,2,3-Trichlorobenzene
Concen: 0.425 ug/l
RT: 14.02 min Scan# 2111
Delta R.T. -0.00 min
Lab File: VX005635.D
Acq: 27 Oct 2018 05:34

Tgt Ion:180 Resp: 2107
Ion Ratio Lower Upper
180 100
182 90.3 48.0 144.2
145 70.8 15.1 45.3#

