

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX100918\
 Data File : VX005197.D
 Acq On : 10 Oct 2018 09:13
 Operator : JC/MD
 Sample : J5303-14
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SA-TW515-3034

Quant Time: Oct 10 13:55:43 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X092618W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 03 04:00:03 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	180335	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	286634	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	286937	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	161089	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.07	65	141033	54.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.50%	
35) Dibromofluoromethane	5.50	113	119671	49.26	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.52%	
50) Toluene-d8	8.72	98	416650	51.59	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.18%	
62) 4-Bromofluorobenzene	11.14	95	150698	51.80	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.60%	

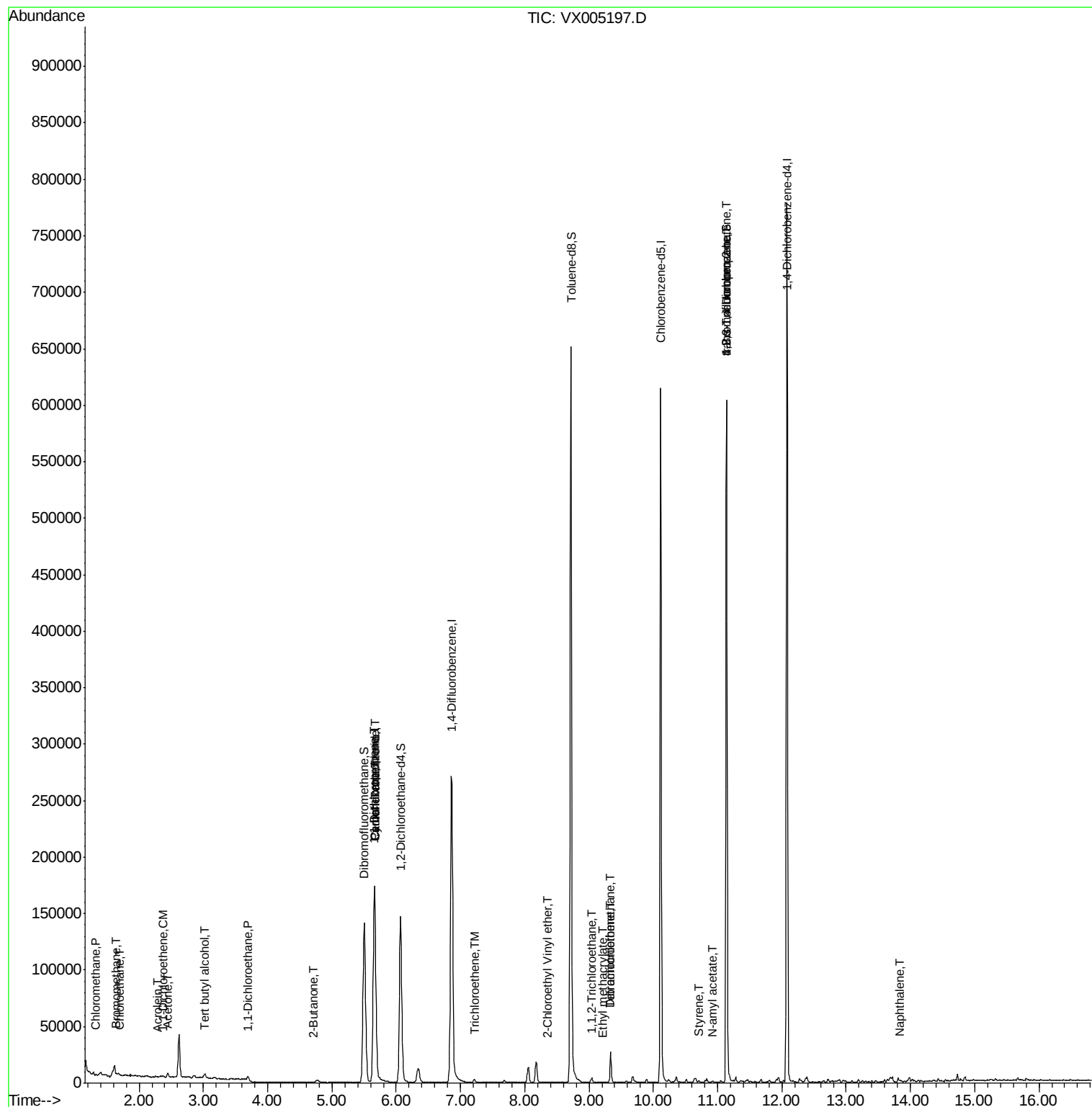
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	780	0.26	ug/l	97
5) Bromomethane	1.65	94	352	0.21	ug/l	89
6) Chloroethane	1.70	64	5850	1.58	ug/l #	51
11) Tert butyl alcohol	3.02	59	2644	3.67	ug/l #	80
12) 1,1-Dichloroethene	2.37	96	473	0.24	ug/l #	70
13) Acrolein	2.29	56	156	0.30	ug/l #	70
16) Acetone	2.45	43	4298	2.86	ug/l	93
20) Methylene Chloride	2.85	84	820	Below Cal	#	83
24) 1,1-Dichloroethane	3.70	63	4706	1.10	ug/l #	94
25) 2-Butanone	4.71	43	591	0.27	ug/l #	49
31) Cyclohexane	5.66	56	3552	1.08	ug/l #	7
36) 1,1-Dichloropropene	5.65	75	12593	3.80	ug/l #	46
38) Carbon Tetrachloride	5.67	117	16020	4.60	ug/l #	18
44) Trichloroethene	7.21	130	1241	0.49	ug/l	90
55) 1,1,2-Trichloroethane	9.04	97	1083	0.43	ug/l #	22
56) Ethyl methacrylate	9.21	69	121	2.89	ug/l #	46
58) 2-Chloroethyl Vinyl ether	8.35	63	25	14.25	ug/l #	49
60) Dibromochloromethane	9.34	129	4821	1.93	ug/l #	10
64) Tetrachloroethene	9.34	164	5532	1.96	ug/l #	86
70) Styrene	10.71	104	48	2.15	ug/l #	25
74) N-amyl acetate	10.91	43	215	1.79	ug/l #	58
76) 1,2,3-Trichloropropane	11.14	75	74981	20.77	ug/l #	35
80) 1,3,5-Trimethylbenzene	11.44	105	215	Below Cal		68
81) trans-1,4-Dichloro-2-buten	11.14	75	74981	56.38	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.80	105	457	Below Cal		85
95) Naphthalene	13.83	128	825	0.78	ug/l #	89

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

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Quant Time: Oct 10 13:55:43 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X092618W.M
Quant Title : SW846 8260
QLast Update : Wed Oct 03 04:00:03 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX005197.D

Acq: 10 Oct 2018 09:13

Instrument :

MSVOA_X

ClientSampleId :

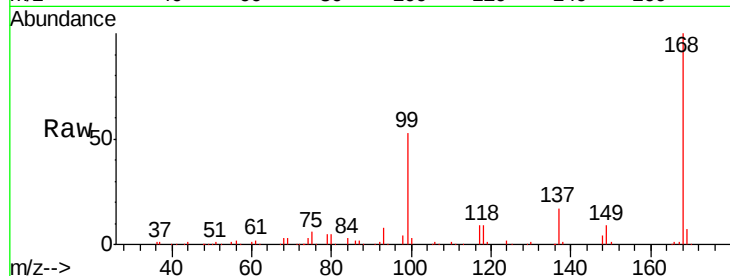
SA-TW515-3034

Tgt Ion:168 Resp: 180335

Ion Ratio Lower Upper

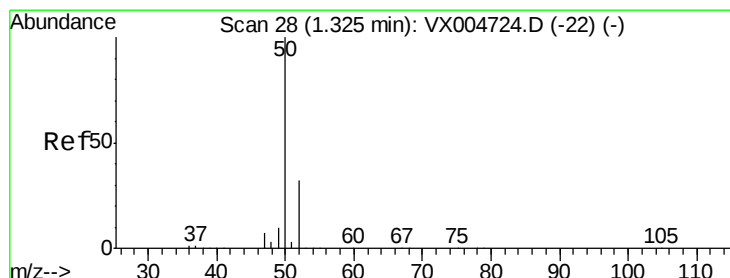
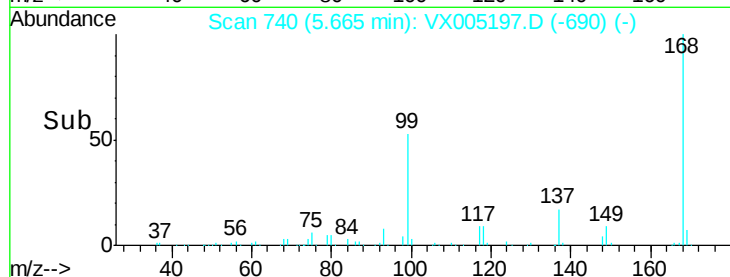
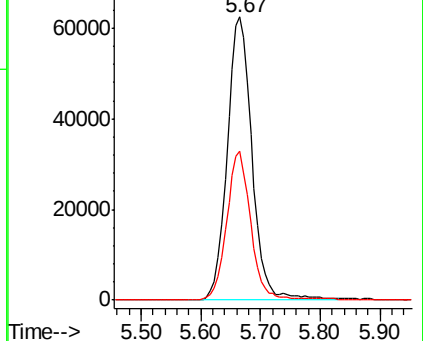
168 100

99 52.6 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.26 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX005197.D

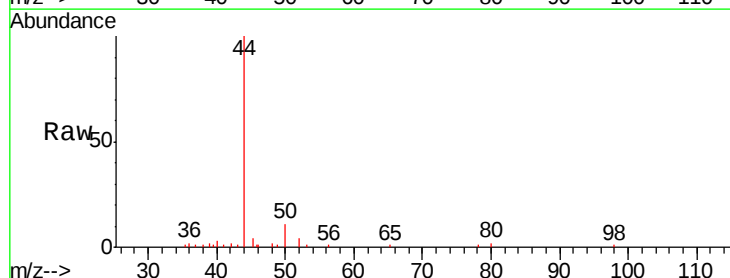
Acq: 10 Oct 2018 09:13

Tgt Ion: 50 Resp: 780

Ion Ratio Lower Upper

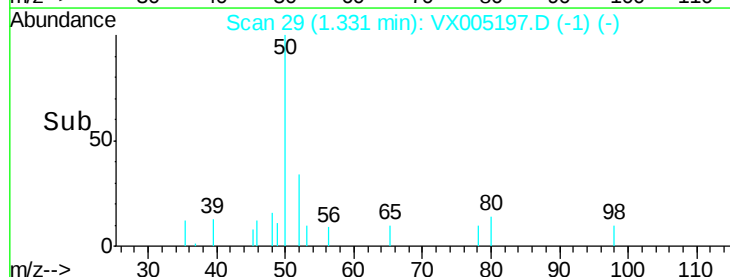
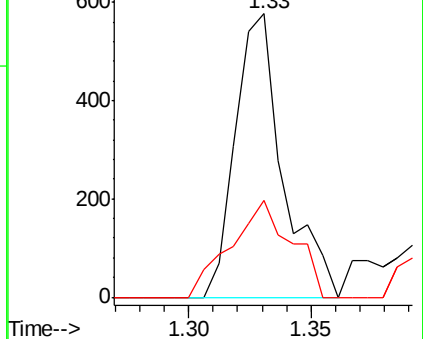
50 100

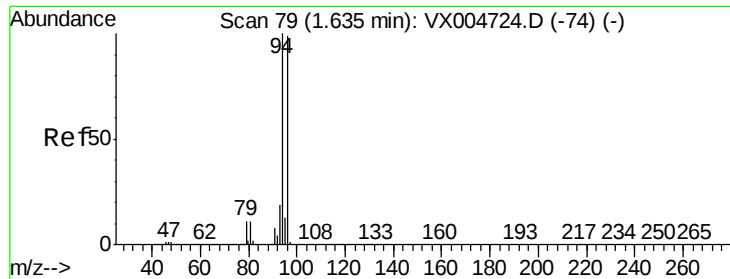
52 34.1 25.8 38.6



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.21 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX005197.D

Acq: 10 Oct 2018 09:13

Instrument :

MSVOA_X

ClientSampleId :

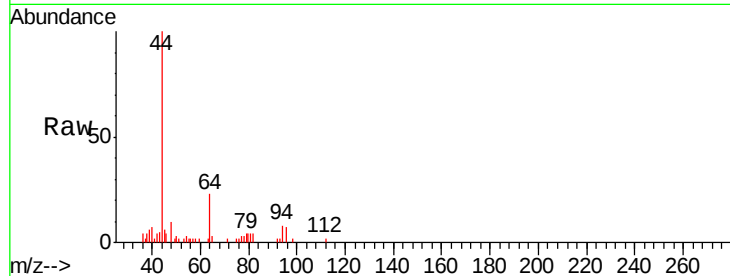
SA-TW515-3034

Tgt Ion: 94 Resp: 352

Ion Ratio Lower Upper

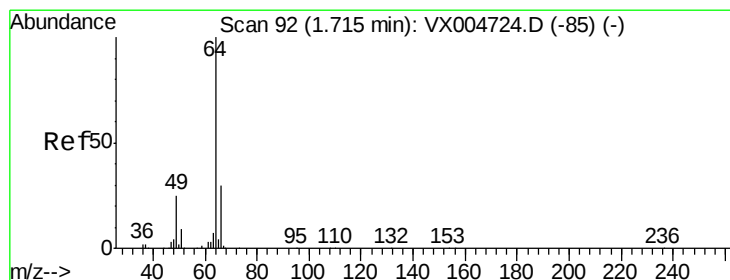
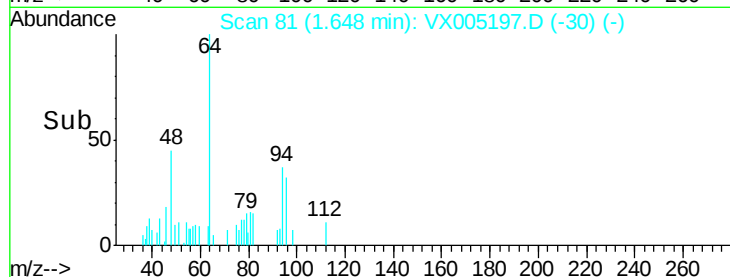
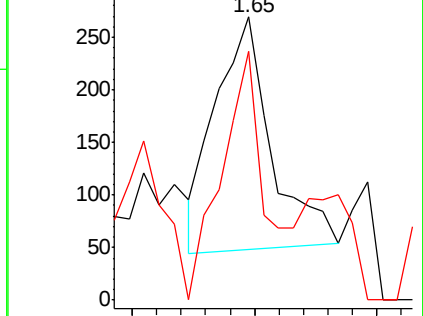
94 100

96 110.2 79.5 119.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 1.58 ug/l

RT: 1.70 min Scan# 90

Delta R.T. -0.01 min

Lab File: VX005197.D

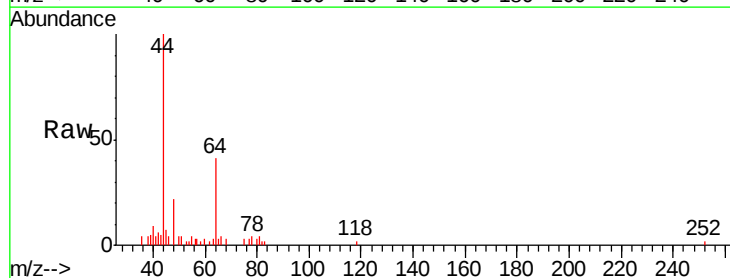
Acq: 10 Oct 2018 09:13

Tgt Ion: 64 Resp: 5850

Ion Ratio Lower Upper

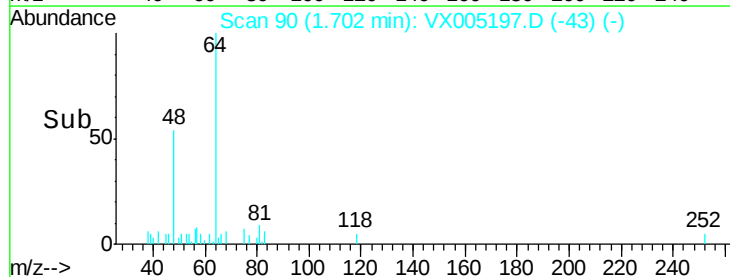
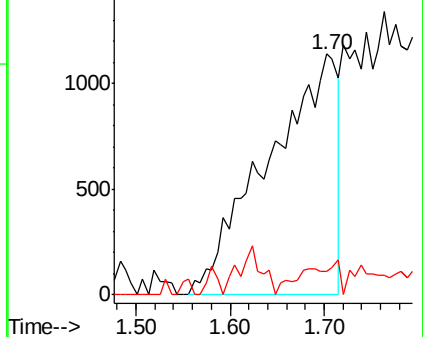
64 100

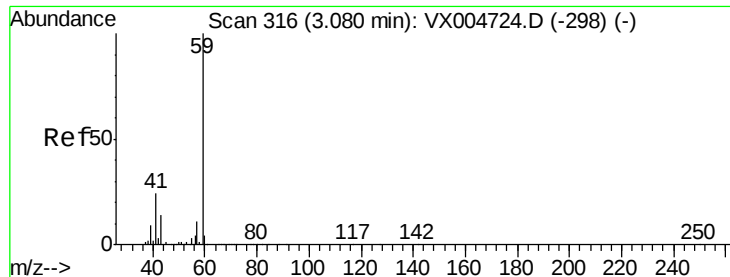
66 3.4 23.8 35.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

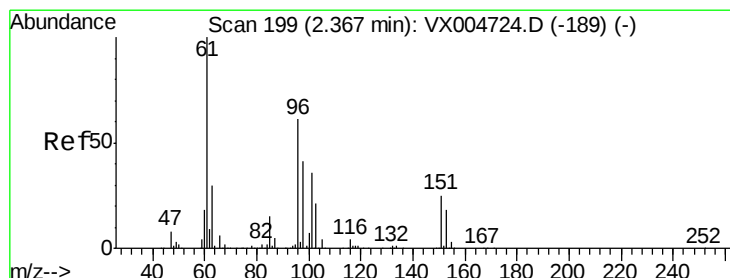
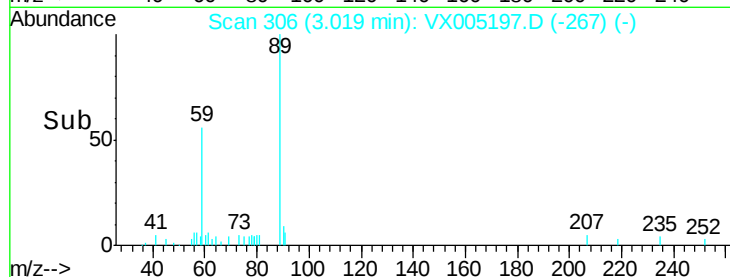
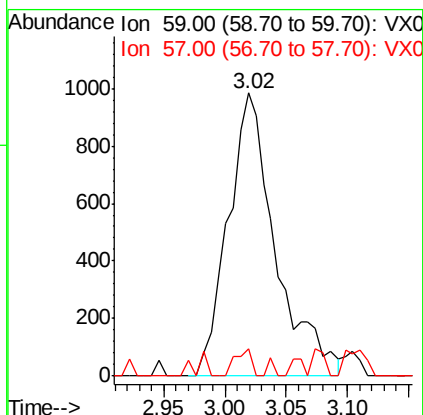
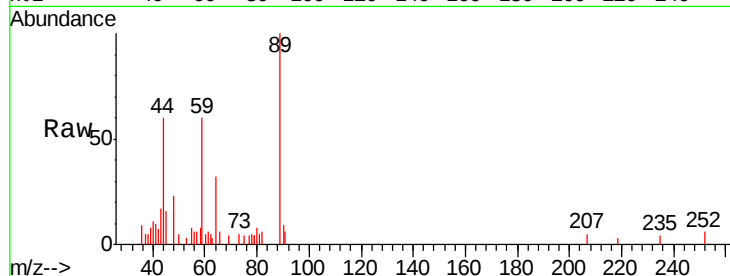




#11
Tert butyl alcohol
Concen: 3.67 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.06 min
Lab File: VX005197.D
Acq: 10 Oct 2018 09:13

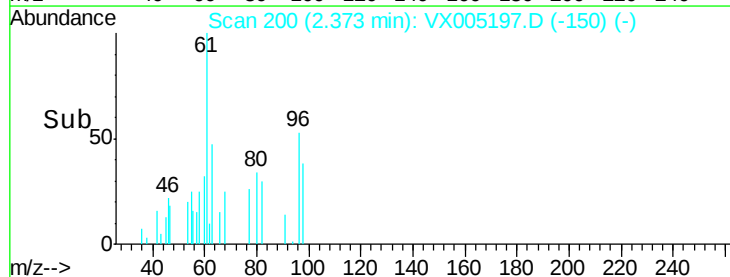
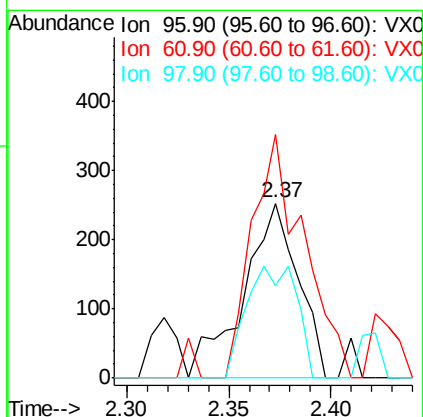
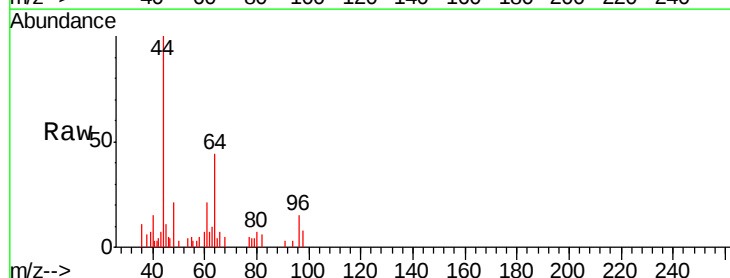
Instrument :
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SA-TW515-3034

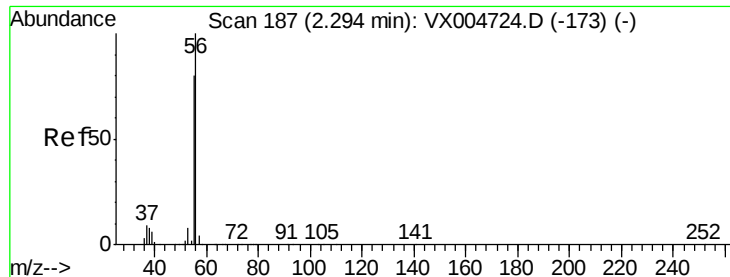
Tgt Ion: 59 Resp: 2644
Ion Ratio Lower Upper
59 100
57 3.2 8.6 12.8#



#12
1,1-Dichloroethene
Concen: 0.24 ug/l
RT: 2.37 min Scan# 200
Delta R.T. 0.01 min
Lab File: VX005197.D
Acq: 10 Oct 2018 09:13

Tgt Ion: 96 Resp: 473
Ion Ratio Lower Upper
96 100
61 116.2 130.2 195.4#
98 52.6 53.4 80.0#

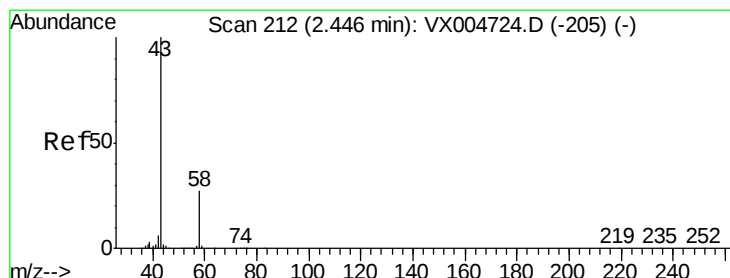
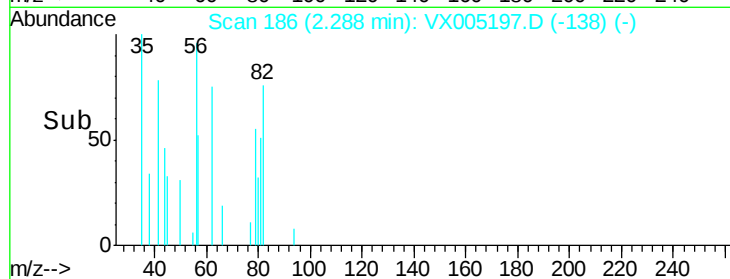
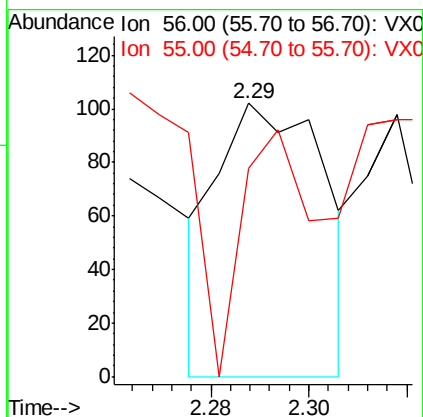
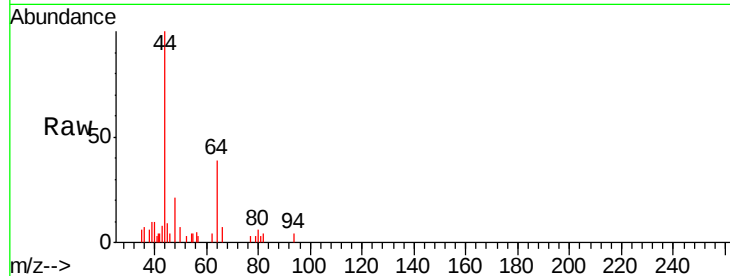




#13
Acrolein
Concen: 0.30 ug/l
RT: 2.29 min Scan# 186
Delta R.T. -0.01 min
Lab File: VX005197.D
Acq: 10 Oct 2018 09:13

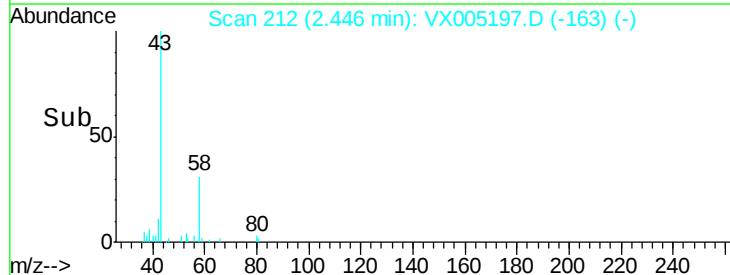
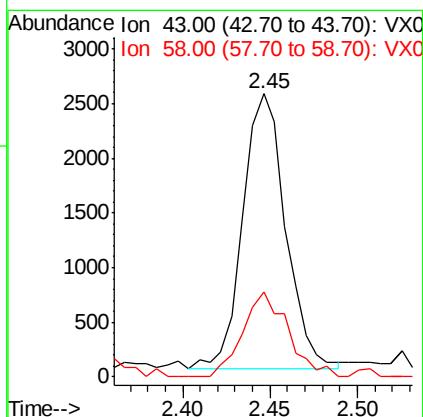
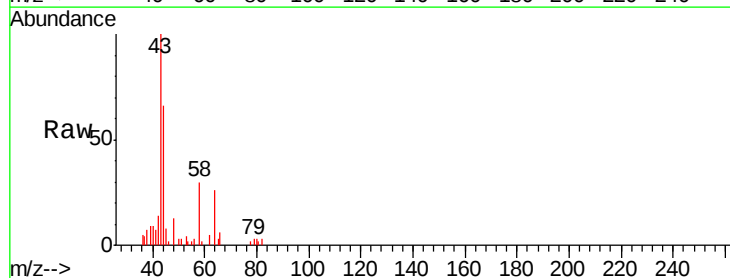
Instrument :
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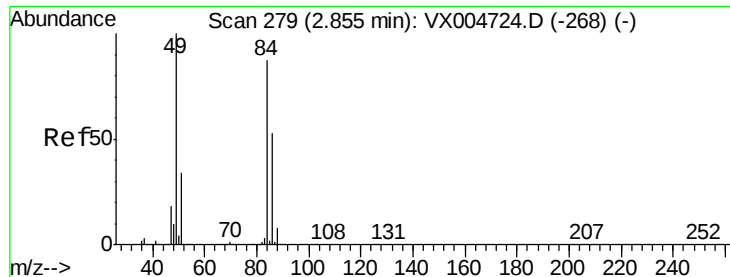
Tgt Ion: 56 Resp: 156
Ion Ratio Lower Upper
56 100
55 53.2 63.4 95.2#



#16
Acetone
Concen: 2.86 ug/l
RT: 2.45 min Scan# 212
Delta R.T. -0.00 min
Lab File: VX005197.D
Acq: 10 Oct 2018 09:13

Tgt Ion: 43 Resp: 4298
Ion Ratio Lower Upper
43 100
58 30.7 21.8 32.6

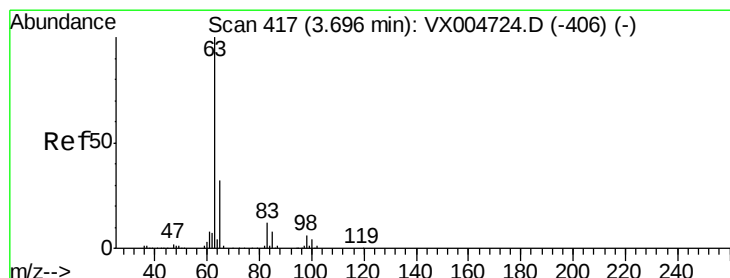
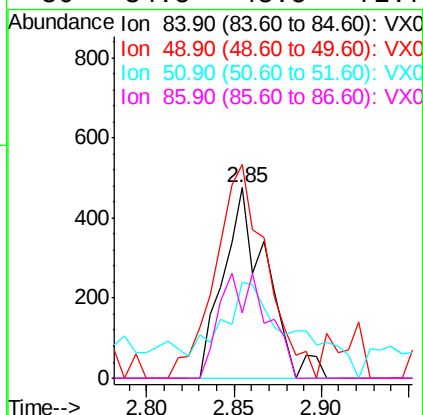
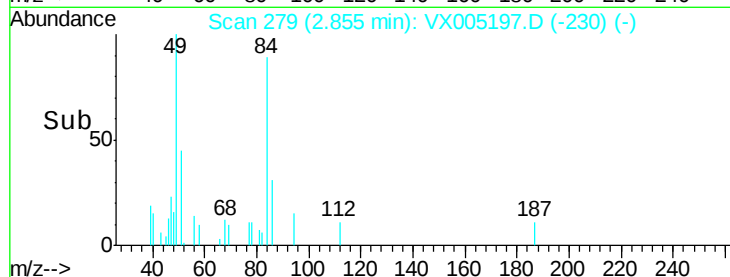
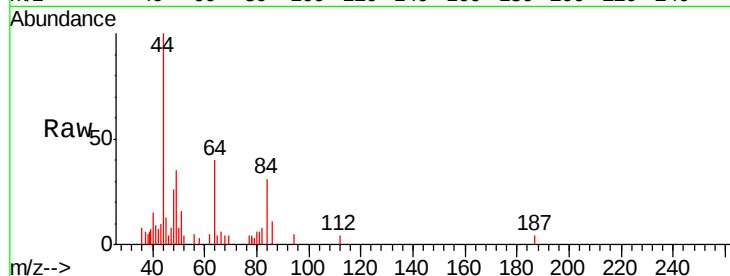




#20
Methylene Chloride
Concen: Below Cal
RT: 2.85 min Scan# 279
Delta R.T. -0.00 min
Lab File: VX005197.D
Acq: 10 Oct 2018 09:13

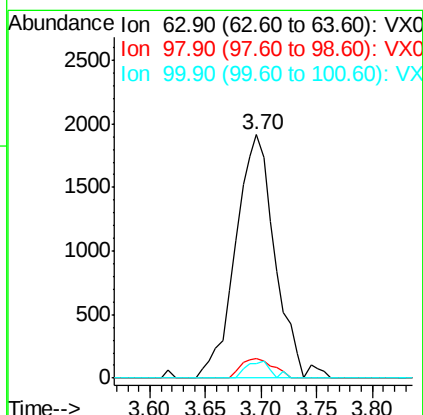
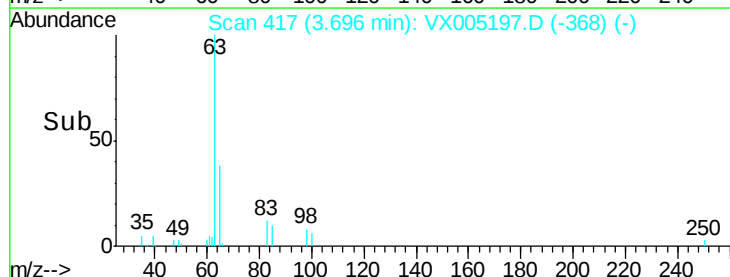
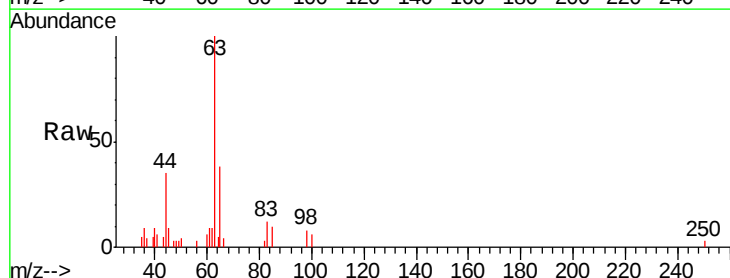
Instrument :
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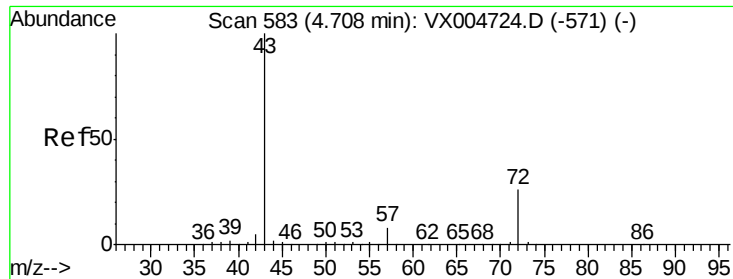
Tgt Ion:	84	Resp:	820
Ion	Ratio	Lower	Upper
84	100		
49	100.8	92.3	138.5
51	39.6	31.8	47.6
86	34.5	48.5	72.7#



#24
1,1-Dichloroethane
Concen: 1.10 ug/l
RT: 3.70 min Scan# 417
Delta R.T. -0.00 min
Lab File: VX005197.D
Acq: 10 Oct 2018 09:13

Tgt Ion:	63	Resp:	4706
Ion	Ratio	Lower	Upper
63	100		
98	8.2	3.0	9.2
100	6.1	2.0	5.8#





#25

2-Butanone

Concen: 0.27 ug/l

RT: 4.71 min Scan# 583

Delta R.T. -0.00 min

Lab File: VX005197.D

Acq: 10 Oct 2018 09:13

Instrument :

MSVOA_X

ClientSampleId :

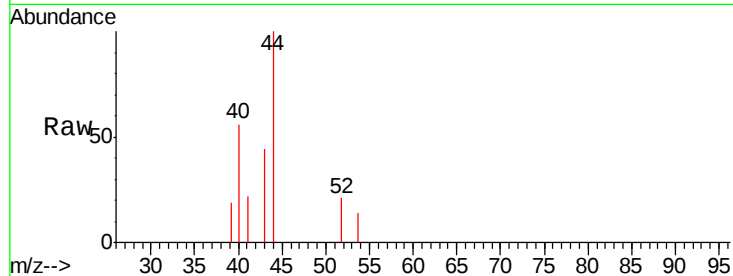
SA-TW515-3034

Tgt Ion: 43 Resp: 591

Ion Ratio Lower Upper

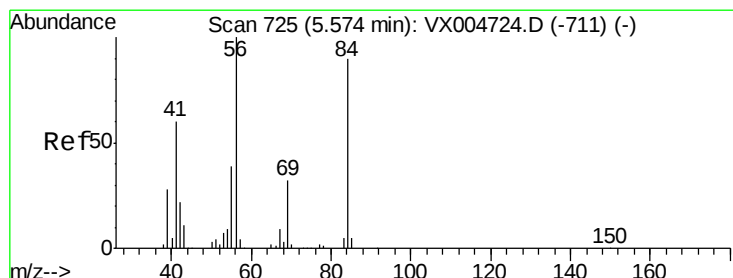
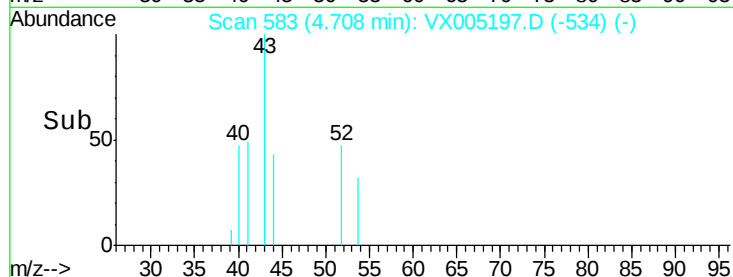
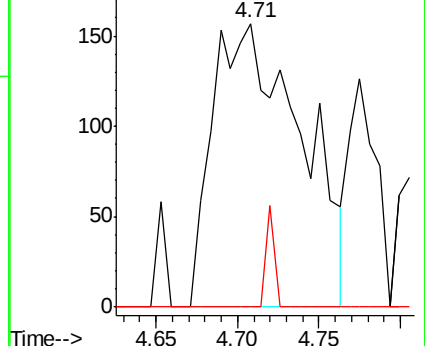
43 100

72 0.0 20.8 31.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#31

Cyclohexane

Concen: 1.08 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.09 min

Lab File: VX005197.D

Acq: 10 Oct 2018 09:13

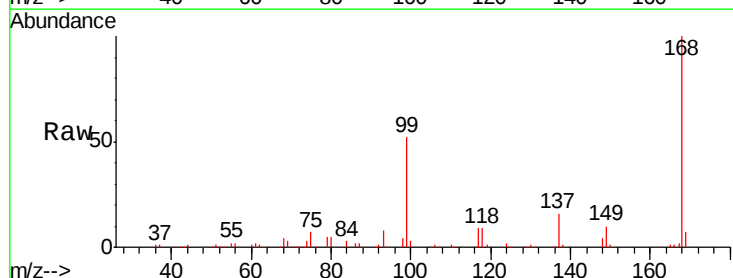
Tgt Ion: 56 Resp: 3552

Ion Ratio Lower Upper

56 100

69 165.2 25.9 38.9#

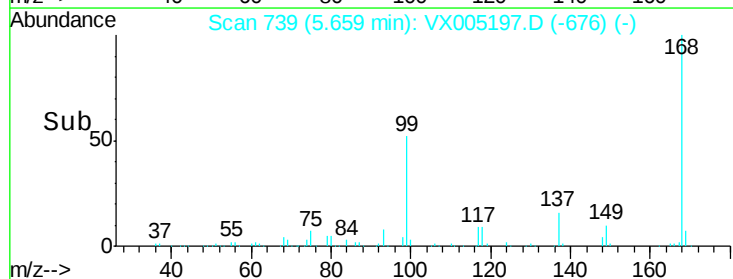
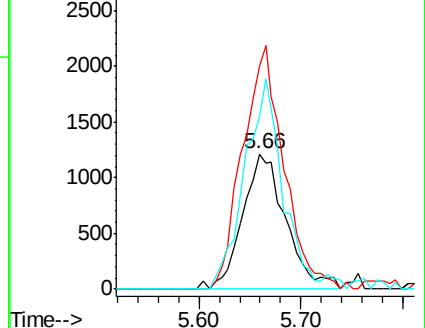
84 128.3 71.9 107.9#

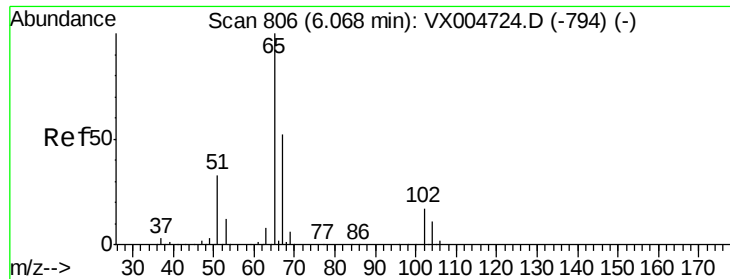


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 54.75 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX005197.D

Acq: 10 Oct 2018 09:13

Instrument :

MSVOA_X

ClientSampleId :

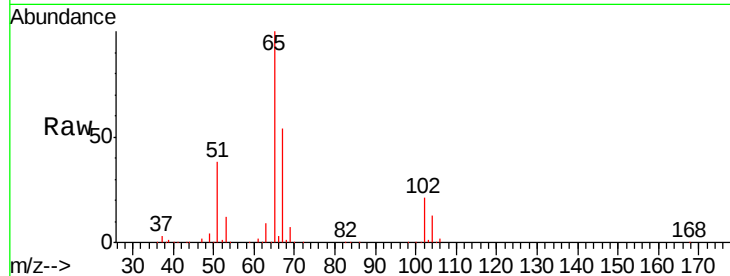
SA-TW515-3034

Tgt Ion: 65 Resp: 141033

Ion Ratio Lower Upper

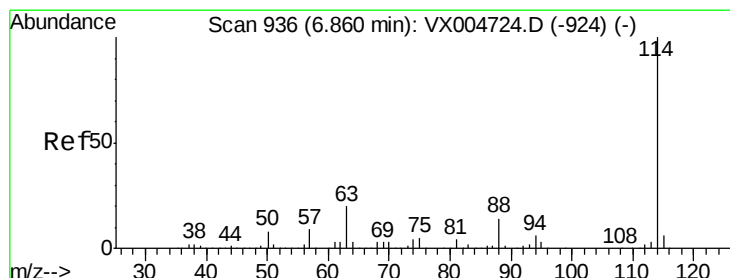
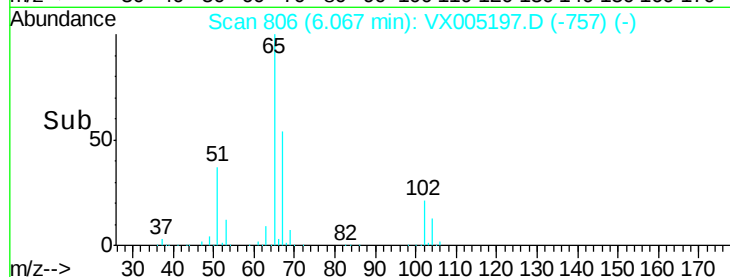
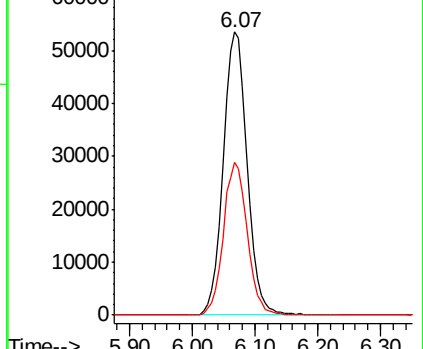
65 100

67 53.6 0.0 107.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX005197.D

Acq: 10 Oct 2018 09:13

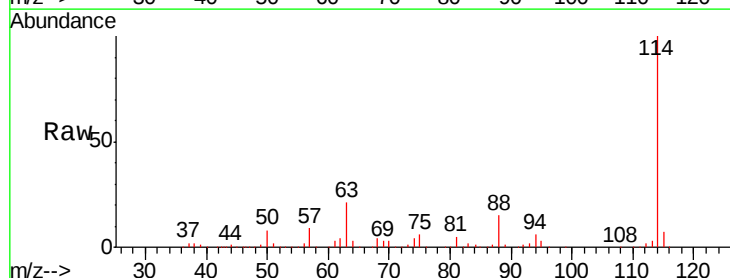
Tgt Ion: 114 Resp: 286634

Ion Ratio Lower Upper

114 100

63 20.6 0.0 39.8

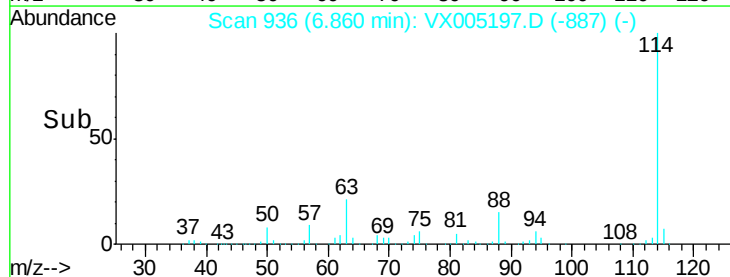
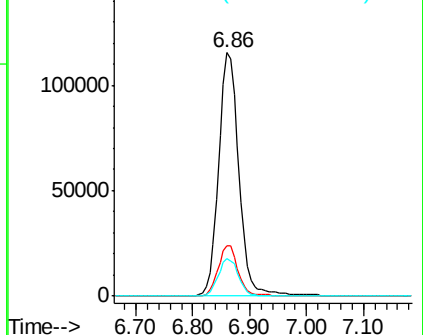
88 15.2 0.0 27.0

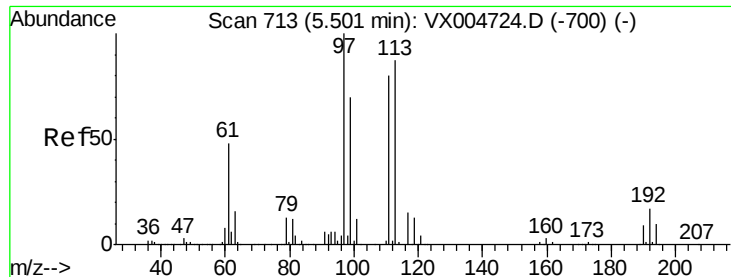


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

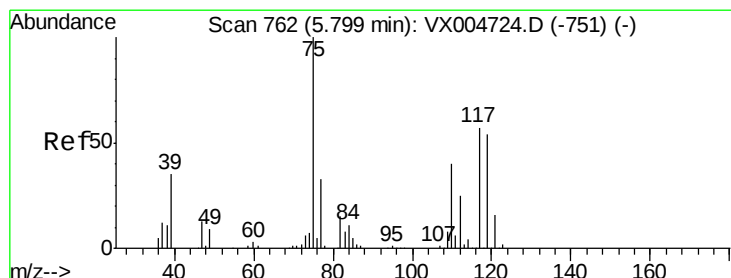
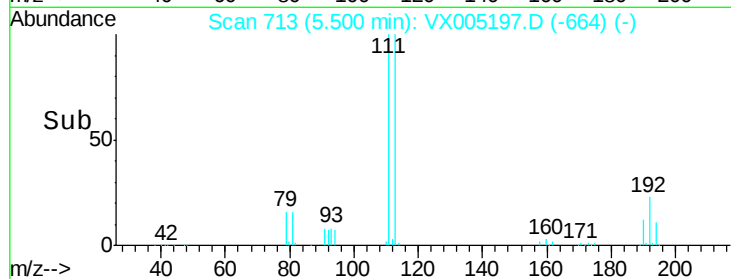
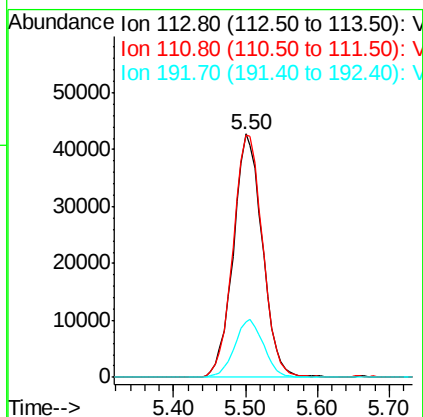
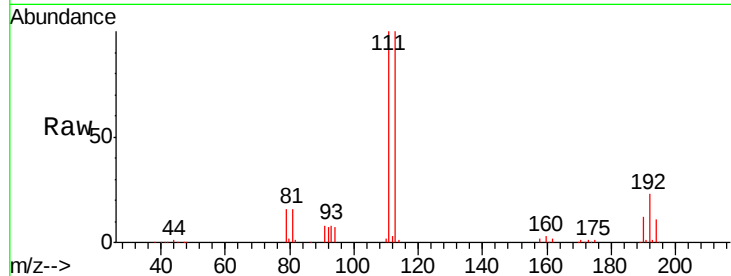




#35
 Dibromofluoromethane
 Concen: 49.26 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX005197.D
 Acq: 10 Oct 2018 09:13

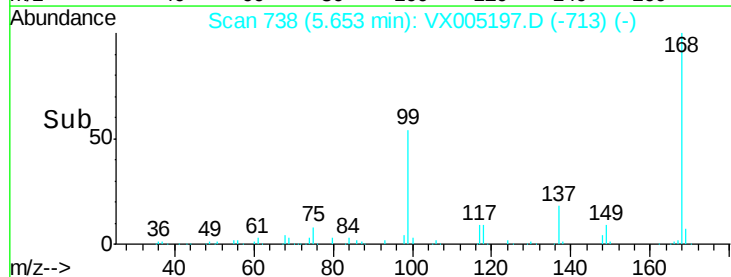
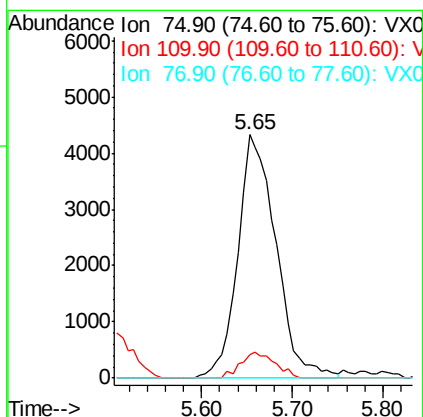
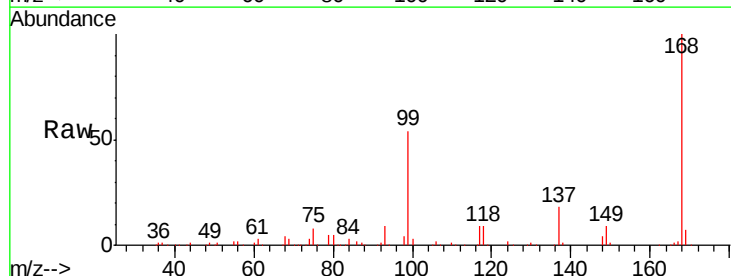
Instrument :
 MSVOA_X
 ClientSampleId :
 SA-TW515-3034

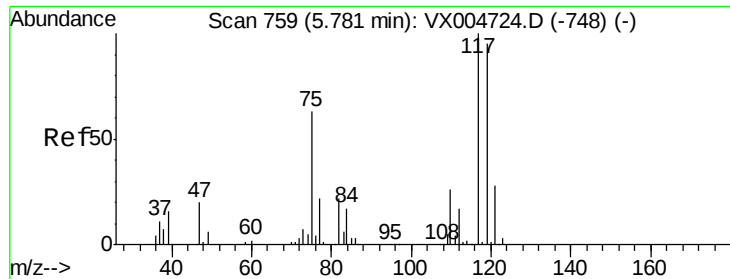
Tgt Ion:113 Resp: 119671
 Ion Ratio Lower Upper
 113 100
 111 101.4 77.0 115.4
 192 23.7 17.0 25.6



#36
 1,1-Dichloropropene
 Concen: 3.80 ug/l
 RT: 5.65 min Scan# 738
 Delta R.T. -0.15 min
 Lab File: VX005197.D
 Acq: 10 Oct 2018 09:13

Tgt Ion: 75 Resp: 12593
 Ion Ratio Lower Upper
 75 100
 110 9.6 20.0 59.9#
 77 0.0 27.1 40.7#





#38

Carbon Tetrachloride

Concen: 4.60 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX005197.D

Acq: 10 Oct 2018 09:13

Instrument :

MSVOA_X

ClientSampleId :

SA-TW515-3034

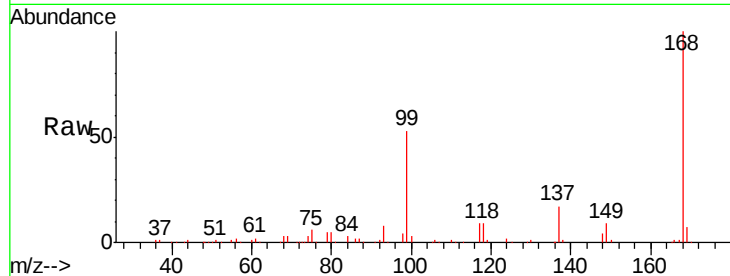
Tgt Ion:117 Resp: 16020

Ion Ratio Lower Upper

117 100

119 6.2 75.2 112.8#

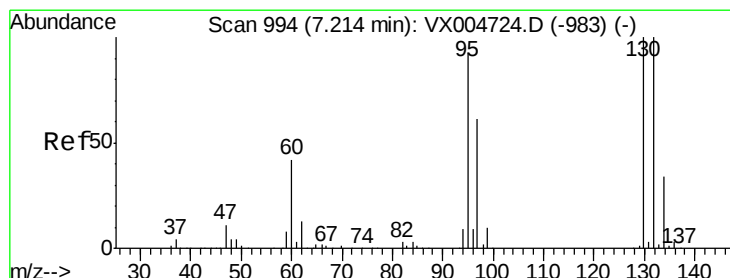
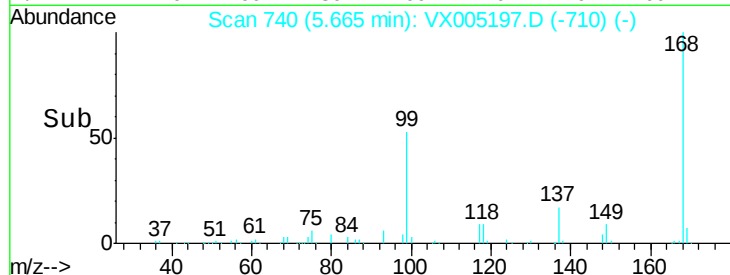
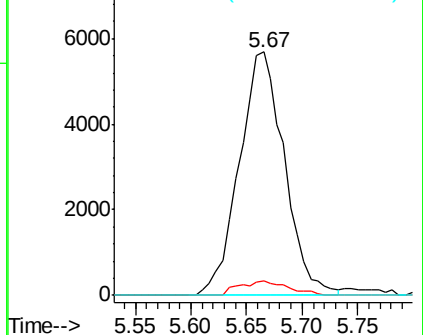
121 0.0 22.5 33.7#



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



#44

Trichloroethene

Concen: 0.49 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX005197.D

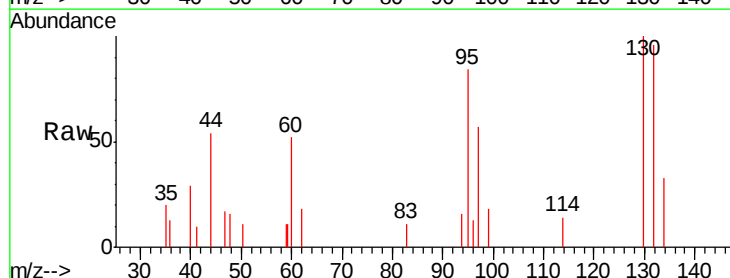
Acq: 10 Oct 2018 09:13

Tgt Ion:130 Resp: 1241

Ion Ratio Lower Upper

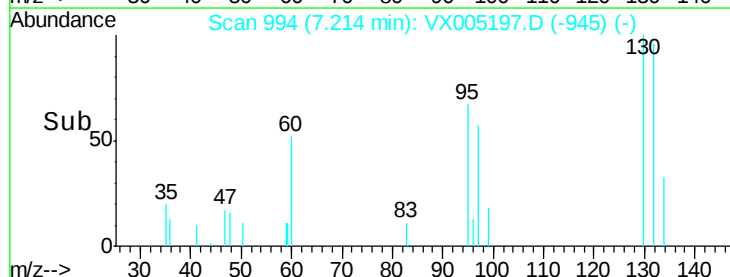
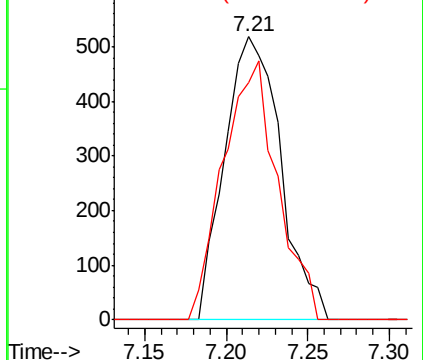
130 100

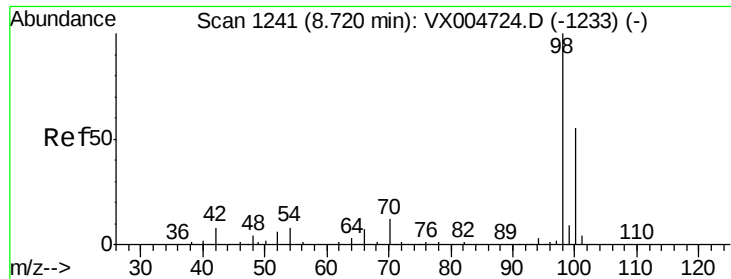
95 83.8 0.0 186.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#50

Toluene-d8

Concen: 51.59 ug/l

RT: 8.72 min Scan# 1241

Delta R.T. -0.00 min

Lab File: VX005197.D

Acq: 10 Oct 2018 09:13

Instrument :

MSVOA_X

ClientSampleId :

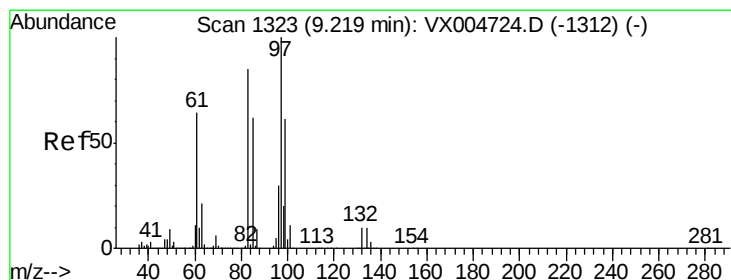
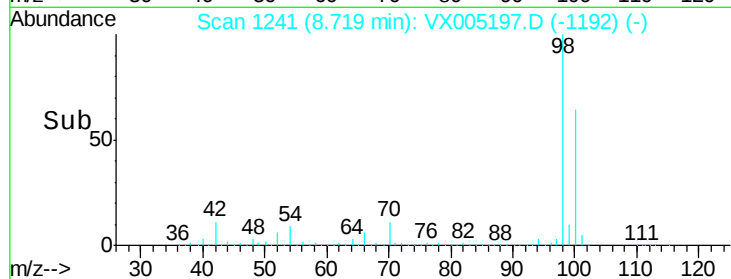
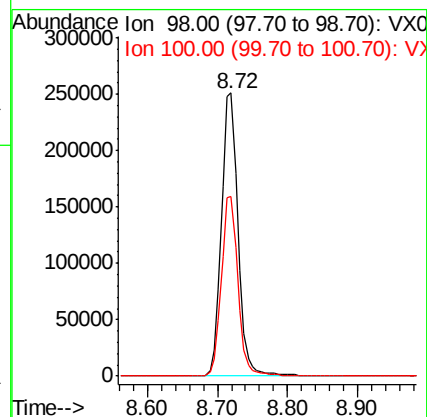
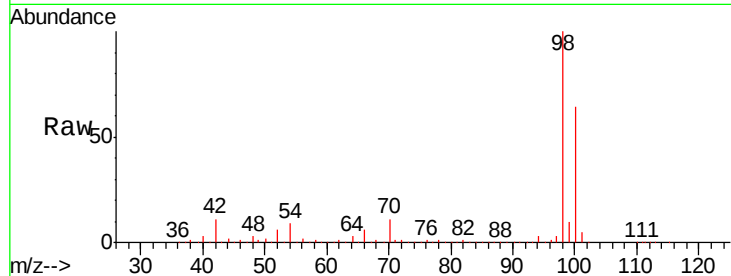
SA-TW515-3034

Tgt Ion: 98 Resp: 416650

Ion Ratio Lower Upper

98 100

100 63.4 51.9 77.9



#55

1,1,2-Trichloroethane

Concen: 0.43 ug/l

RT: 9.04 min Scan# 1293

Delta R.T. -0.18 min

Lab File: VX005197.D

Acq: 10 Oct 2018 09:13

Tgt Ion: 97 Resp: 1083

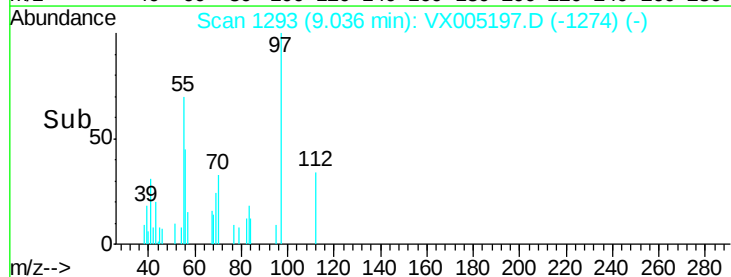
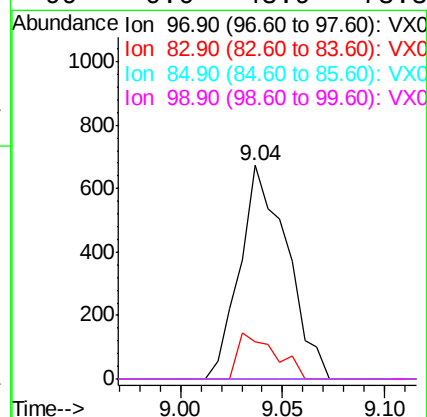
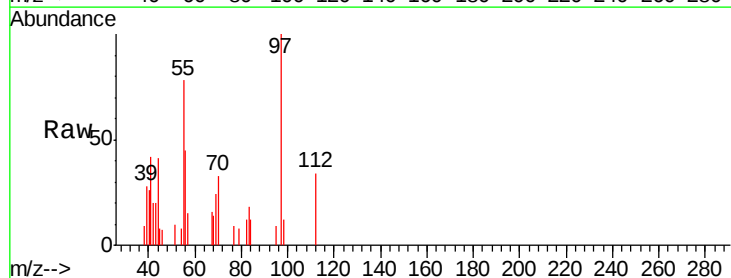
Ion Ratio Lower Upper

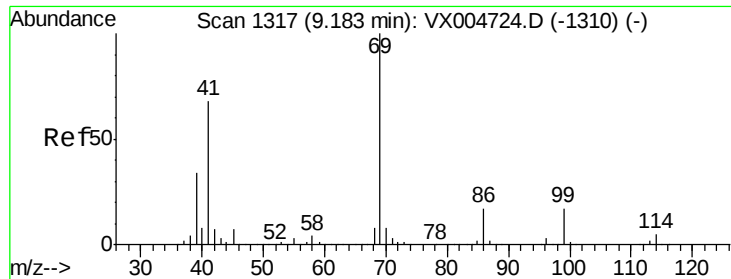
97 100

83 17.7 68.2 102.2#

85 0.0 49.9 74.9#

99 0.0 48.9 73.3#

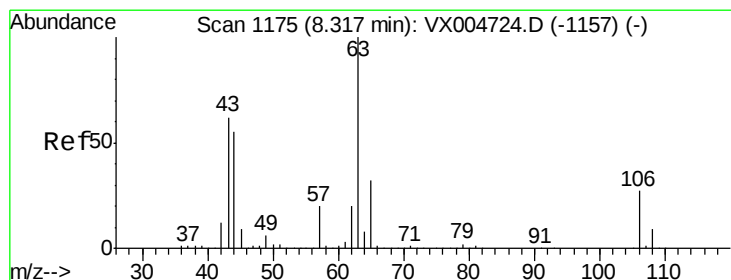
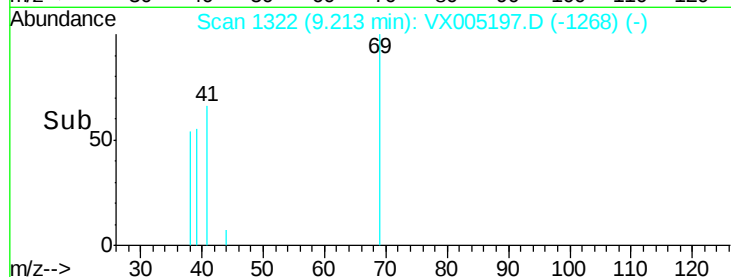
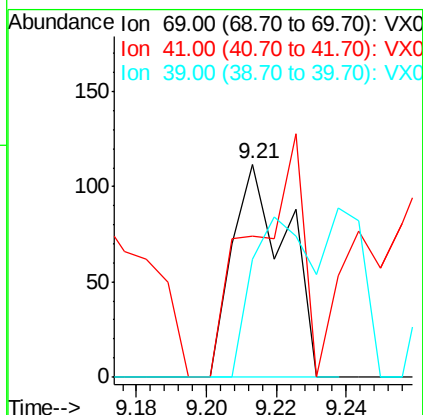
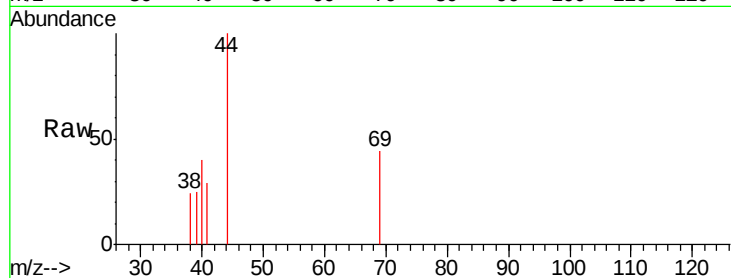




#56
Ethyl methacrylate
Concen: 2.89 ug/l
RT: 9.21 min Scan# 1322
Delta R.T. 0.03 min
Lab File: VX005197.D
Acq: 10 Oct 2018 09:13

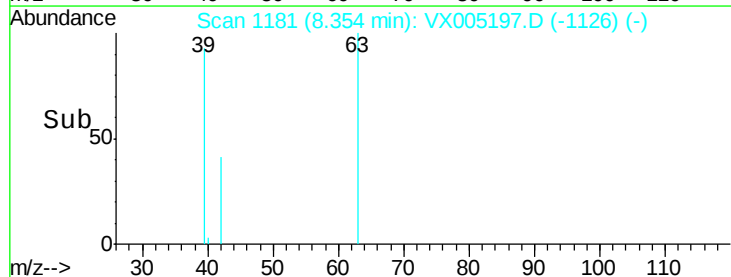
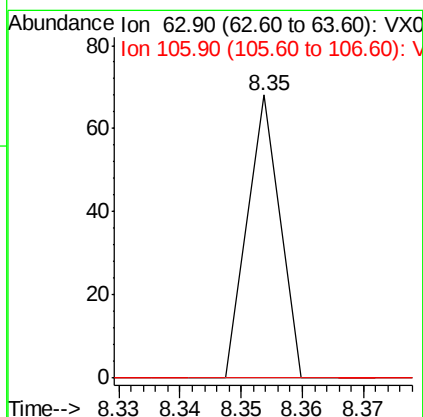
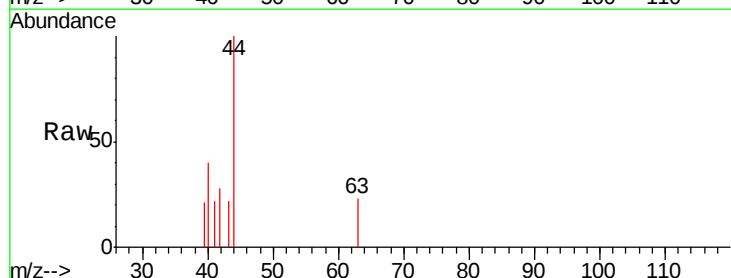
Instrument :
MSVOA_X
ClientSampleId :
SA-TW515-3034

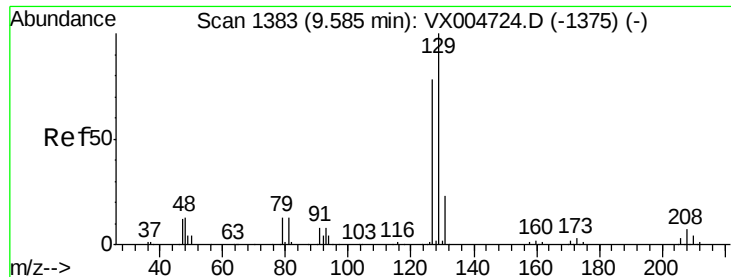
Tgt Ion: 69 Resp: 121
Ion Ratio Lower Upper
69 100
41 105.0 56.9 85.3#
39 82.6 28.4 42.6#



#58
2-Chloroethyl Vinyl ether
Concen: 14.25 ug/l
RT: 8.35 min Scan# 1181
Delta R.T. 0.04 min
Lab File: VX005197.D
Acq: 10 Oct 2018 09:13

Tgt Ion: 63 Resp: 25
Ion Ratio Lower Upper
63 100
106 0.0 21.0 31.6#





#60

Dibromochloromethane

Concen: 1.93 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.25 min

Lab File: VX005197.D

Acq: 10 Oct 2018 09:13

Instrument :

MSVOA_X

ClientSampleId :

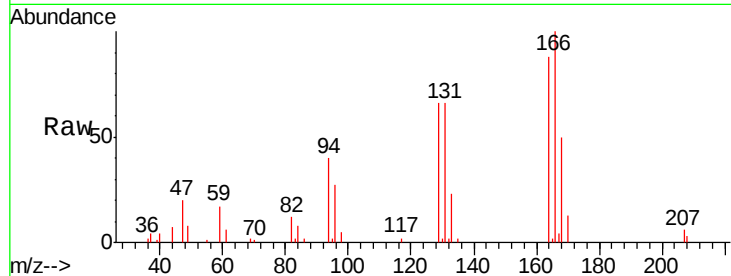
SA-TW515-3034

Tgt Ion:129 Resp: 4821

Ion Ratio Lower Upper

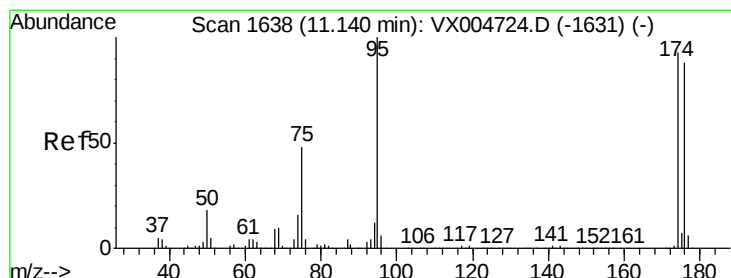
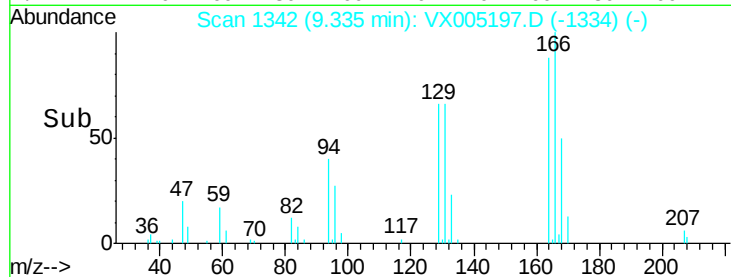
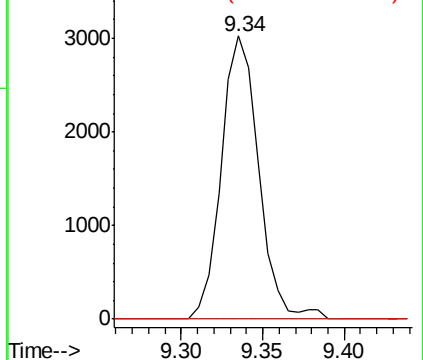
129 100

127 0.0 39.1 117.2#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 51.80 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.00 min

Lab File: VX005197.D

Acq: 10 Oct 2018 09:13

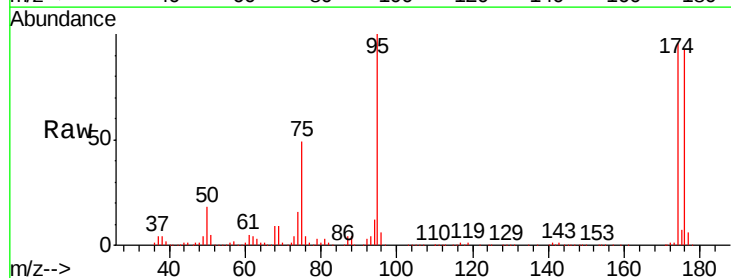
Tgt Ion: 95 Resp: 150698

Ion Ratio Lower Upper

95 100

174 94.5 0.0 185.0

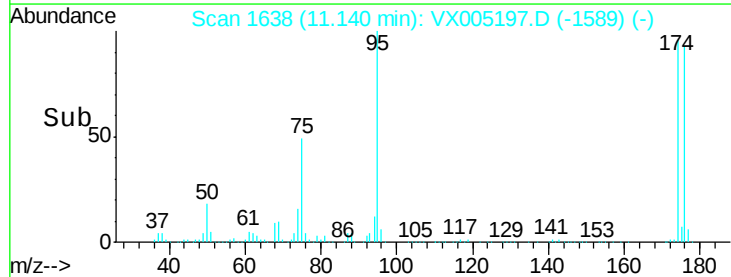
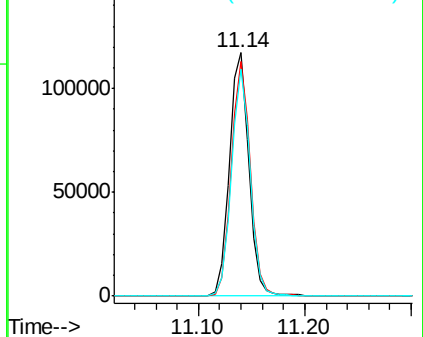
176 90.3 0.0 180.2

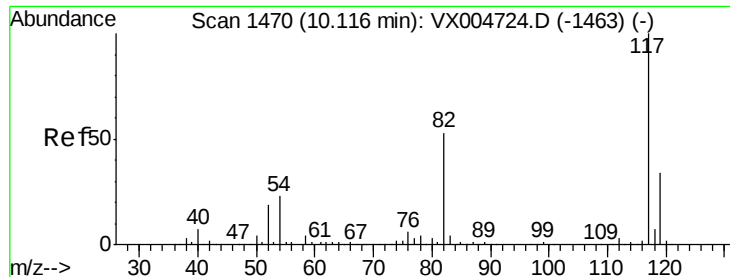


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

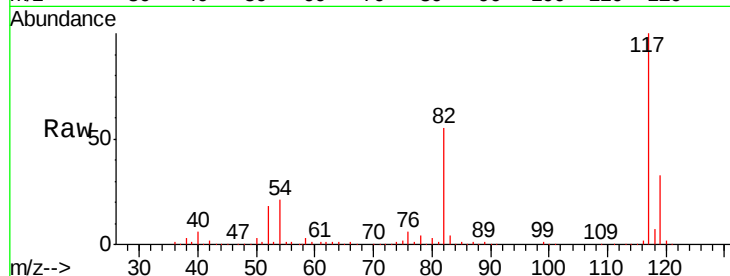




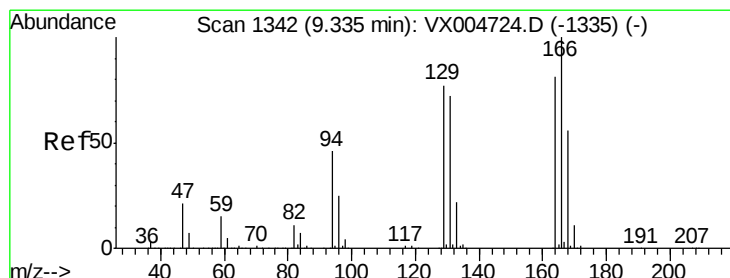
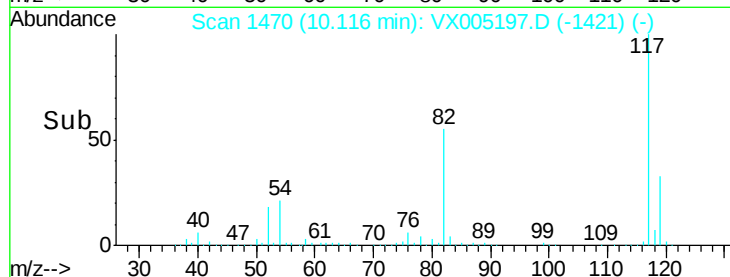
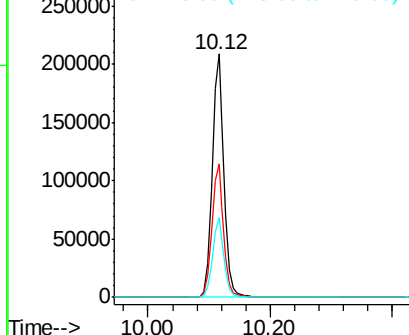
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX005197.D
Acq: 10 Oct 2018 09:13

Instrument :
MSVOA_X
ClientSampleId :
SA-TW515-3034

Tgt Ion:117 Resp: 286937
Ion Ratio Lower Upper
117 100
82 54.6 42.2 63.4
119 32.6 27.4 41.0

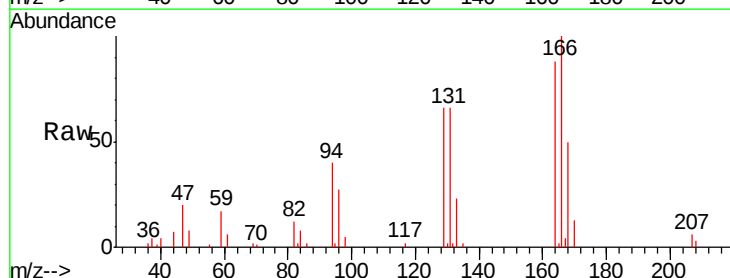


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

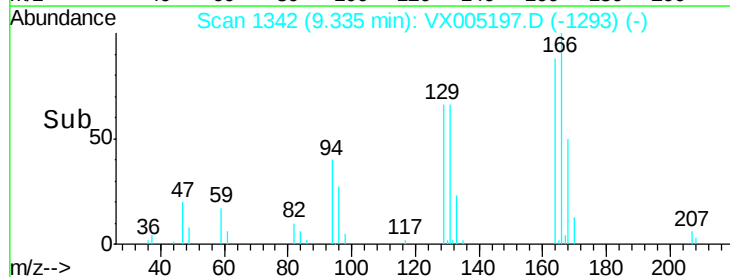
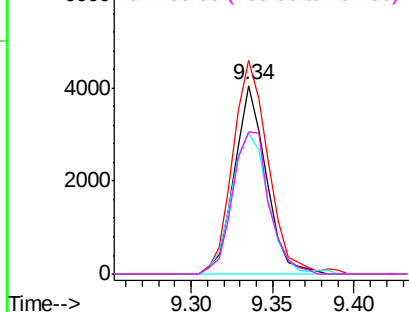


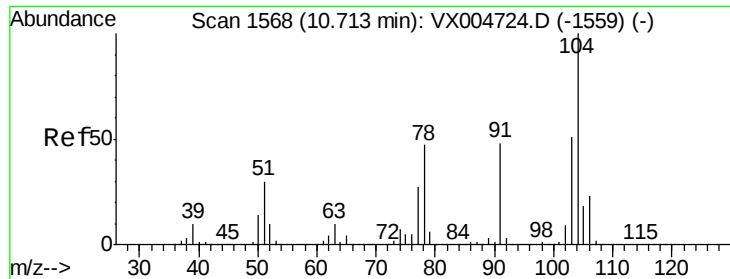
#64
Tetrachloroethene
Concen: 1.96 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VX005197.D
Acq: 10 Oct 2018 09:13

Tgt Ion:164 Resp: 5532
Ion Ratio Lower Upper
164 100
166 113.2 98.4 147.6
129 74.4 76.1 114.1#
131 75.2 71.0 106.4



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





#70

Styrene

Concen: 2.15 ug/l

RT: 10.71 min Scan# 1568

Delta R.T. -0.00 min

Lab File: VX005197.D

Acq: 10 Oct 2018 09:13

Instrument :

MSVOA_X

ClientSampleId :

SA-TW515-3034

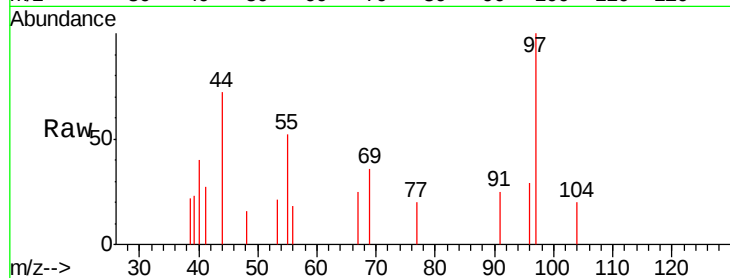
Tgt Ion:104 Resp: 48

Ion Ratio Lower Upper

104 100

78 0.0 40.0 60.0#

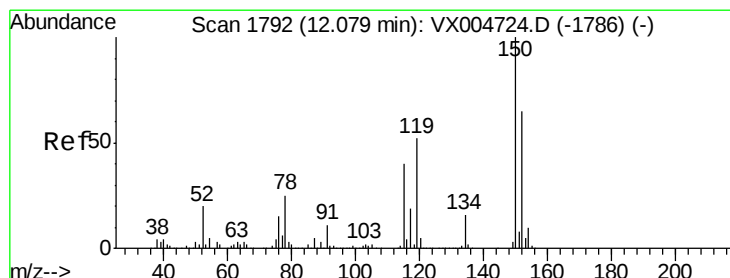
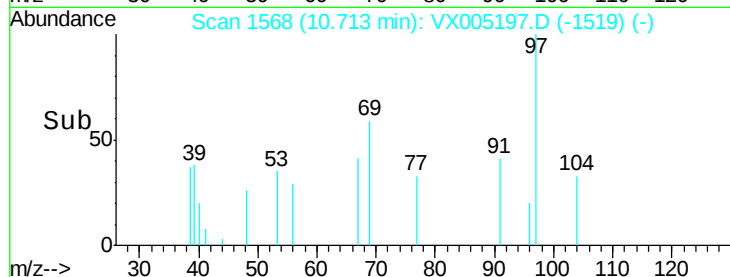
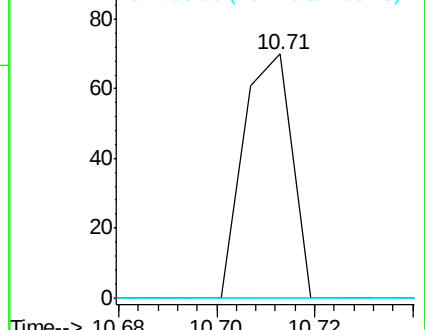
103 0.0 44.3 66.5#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VX0

Ion 103.00 (102.70 to 103.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX005197.D

Acq: 10 Oct 2018 09:13

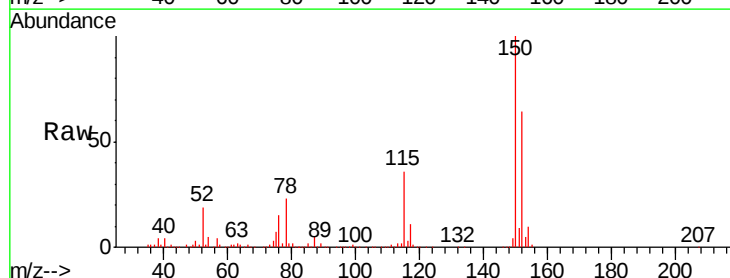
Tgt Ion:152 Resp: 161089

Ion Ratio Lower Upper

152 100

115 54.8 40.2 120.6

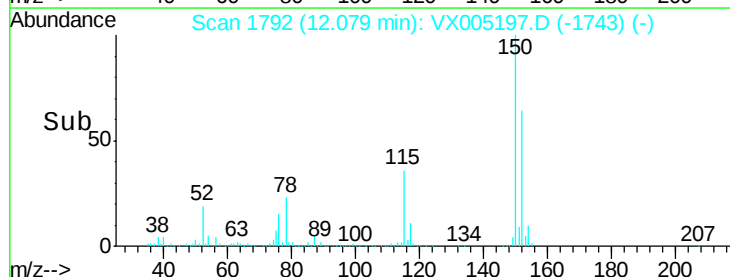
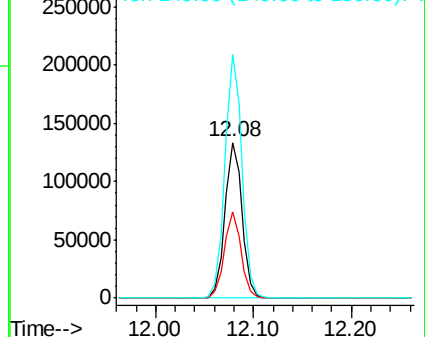
150 156.5 0.0 351.0

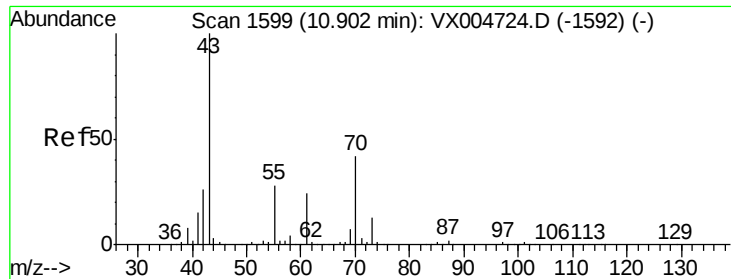


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-ethyl acetate

Concen: 1.79 ug/l

RT: 10.91 min Scan# 1601

Delta R.T. 0.01 min

Lab File: VX005197.D

Acq: 10 Oct 2018 09:13

Instrument :

MSVOA_X

ClientSampleId :

SA-TW515-3034

Tgt Ion: 43 Resp: 215

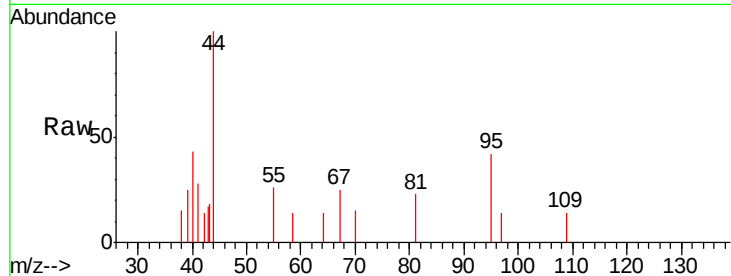
Ion Ratio Lower Upper

43 100

70 20.5 32.6 48.8#

55 0.0 21.6 32.4#

61 0.0 19.1 28.7#

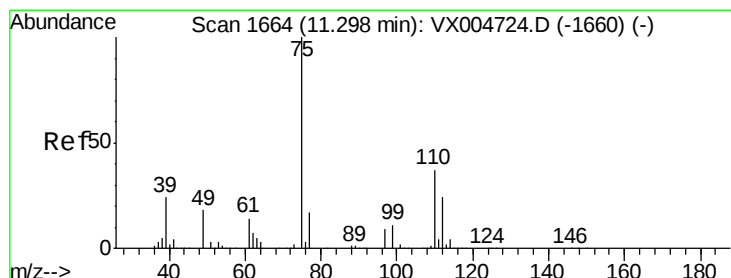
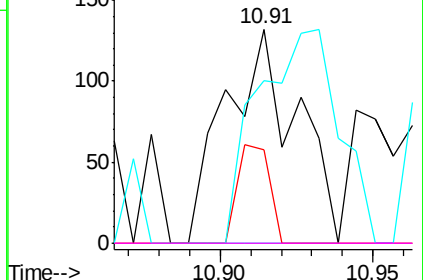
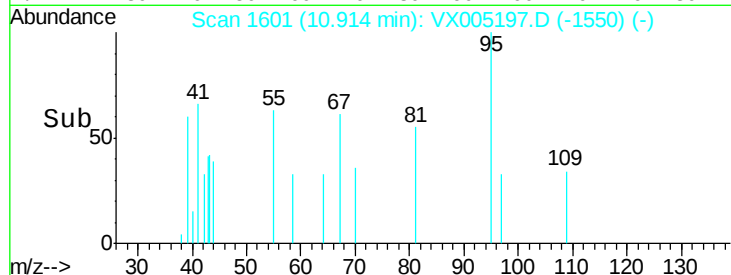


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0



#76

1,2,3-Trichloropropane

Concen: 20.77 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005197.D

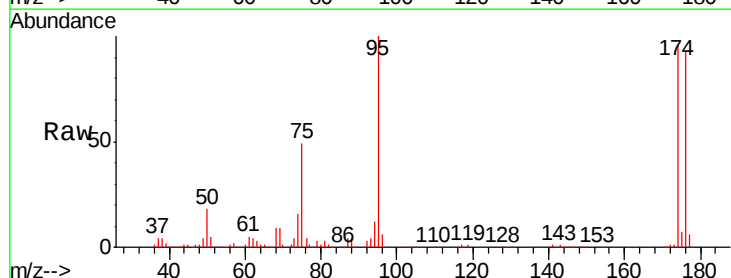
Acq: 10 Oct 2018 09:13

Tgt Ion: 75 Resp: 74981

Ion Ratio Lower Upper

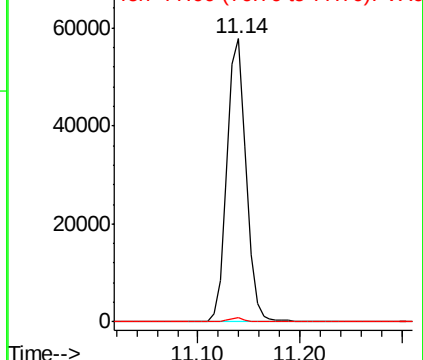
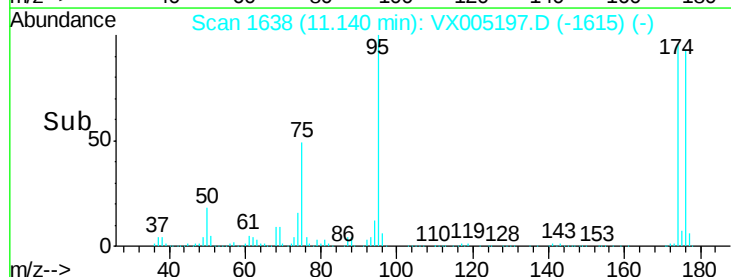
75 100

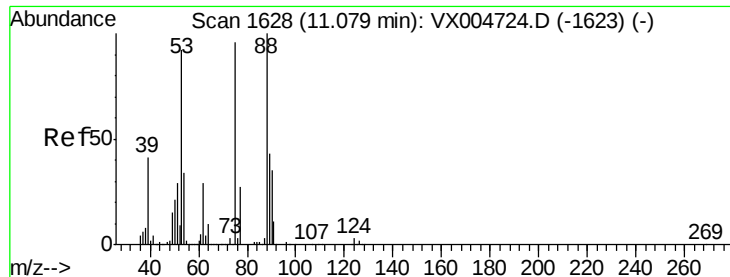
77 1.3 21.4 64.3#



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: 56.38 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.06 min

Lab File: VX005197.D

Acq: 10 Oct 2018 09:13

Instrument :

MSVOA_X

ClientSampleId :

SA-TW515-3034

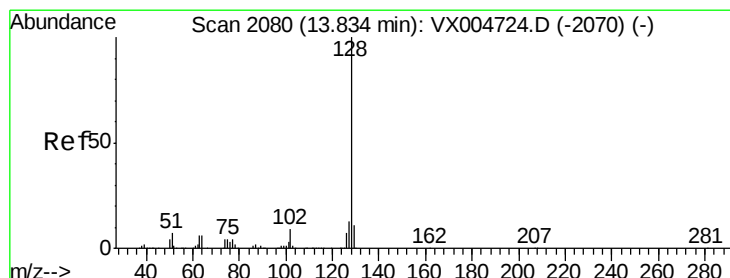
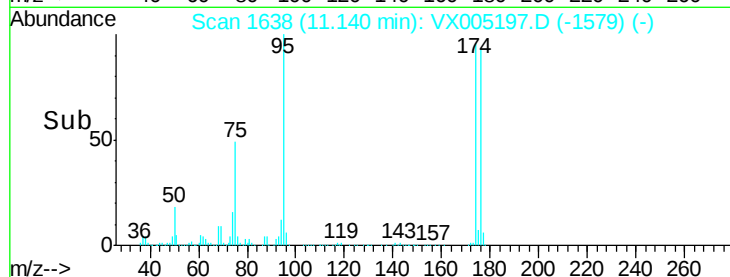
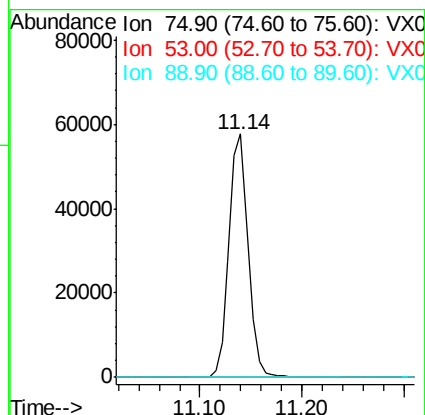
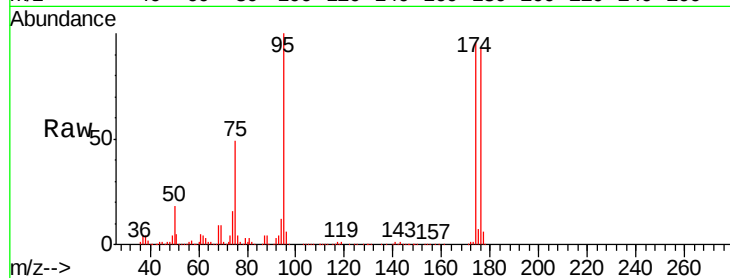
Tgt Ion: 75 Resp: 74981

Ion Ratio Lower Upper

75 100

53 0.4 80.2 120.4#

89 0.1 37.1 55.7#



#95

Naphthalene

Concen: 0.78 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. -0.00 min

Lab File: VX005197.D

Acq: 10 Oct 2018 09:13

Tgt Ion: 128 Resp: 825

Ion Ratio Lower Upper

128 100

127 12.4 10.4 15.6

129 19.6 8.7 13.1#

