

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX100918\
 Data File : VX005198.D
 Acq On : 10 Oct 2018 09:40
 Operator : JC/MD
 Sample : J5303-15
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SA-TW515-4044

Quant Time: Oct 10 13:55:57 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	175895	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	277150	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	276284	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	155967	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	141315	56.24	ug/l	0.00
Spiked Amount			Recovery	=	112.48%	
35) Dibromofluoromethane	5.50	113	115477	49.16	ug/l	0.00
Spiked Amount			Recovery	=	98.32%	
50) Toluene-d8	8.71	98	402871	51.59	ug/l	0.00
Spiked Amount			Recovery	=	103.18%	
62) 4-Bromofluorobenzene	11.14	95	144923	51.52	ug/l	0.00
Spiked Amount			Recovery	=	103.04%	

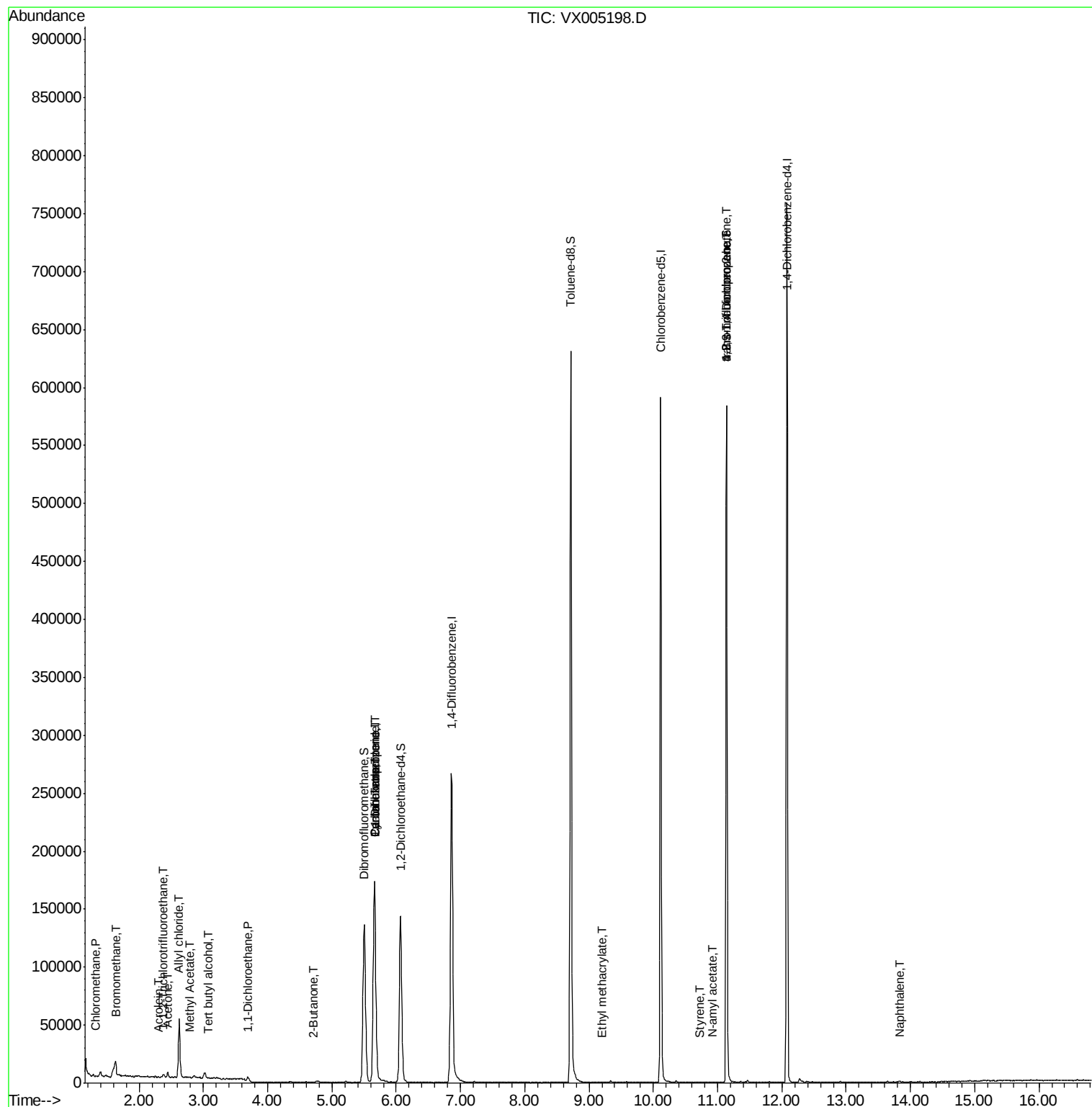
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	664	0.23	ug/l	91
5) Bromomethane	1.64	94	684	0.42	ug/l	# 39
6) Chloroethane	1.70	64	3203	Below Cal	#	68
9) 1,1,2-Trichlorotrifluoroet	2.39	101	806	0.42	ug/l	# 92
11) Tert butyl alcohol	3.07	59	259	0.37	ug/l	# 85
13) Acrolein	2.30	56	204	0.41	ug/l	# 79
14) Allyl chloride	2.62	41	4882	1.17	ug/l	# 51
16) Acetone	2.45	43	4332	2.95	ug/l	99
18) Methyl Acetate	2.78	43	810	0.22	ug/l	# 85
20) Methylene Chloride	2.86	84	855	Below Cal	#	85
24) 1,1-Dichloroethane	3.70	63	4320	1.03	ug/l	96
25) 2-Butanone	4.71	43	545	0.25	ug/l	# 49
31) Cyclohexane	5.66	56	3356	1.05	ug/l	# 1
36) 1,1-Dichloropropene	5.67	75	12443	3.88	ug/l	# 46
38) Carbon Tetrachloride	5.67	117	15869	4.71	ug/l	# 18
56) Ethyl methacrylate	9.21	69	21	2.87	ug/l	# 1
70) Styrene	10.73	104	20	2.14	ug/l	# 29
74) N-amyl acetate	10.91	43	133	1.77	ug/l	# 43
76) 1,2,3-Trichloropropane	11.14	75	72069	20.62	ug/l	# 35
80) 1,3,5-Trimethylbenzene	11.51	105	154	Below Cal	#	29
81) trans-1,4-Dichloro-2-buten	11.14	75	72069	55.98	ug/l	# 10
84) 1,2,4-Trimethylbenzene	11.81	105	377	Below Cal		84
95) Naphthalene	13.83	128	480	0.76	ug/l	# 75

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

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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: VX005198.D

Acq: 10 Oct 2018 09:40

Instrument :

MSVOA_X

ClientSampleId :

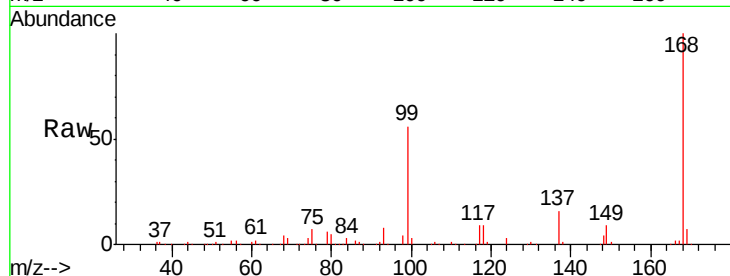
SA-TW515-4044

Tgt Ion:168 Resp: 175895

Ion Ratio Lower Upper

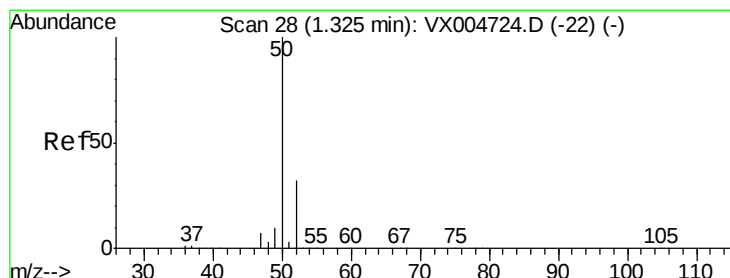
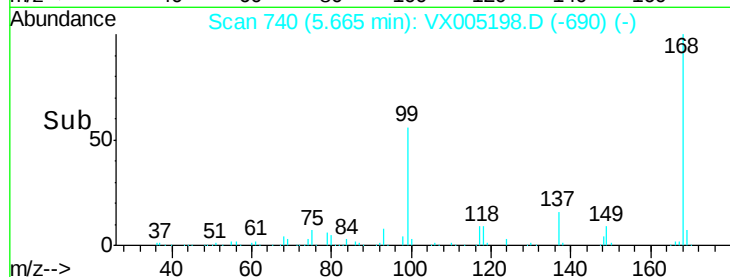
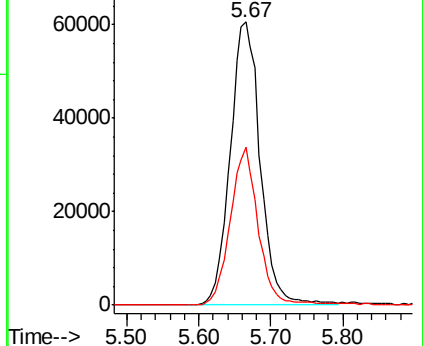
168 100

99 55.7 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: 0.23 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX005198.D

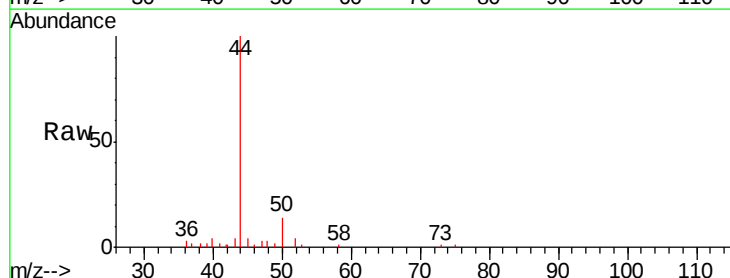
Acq: 10 Oct 2018 09:40

Tgt Ion: 50 Resp: 664

Ion Ratio Lower Upper

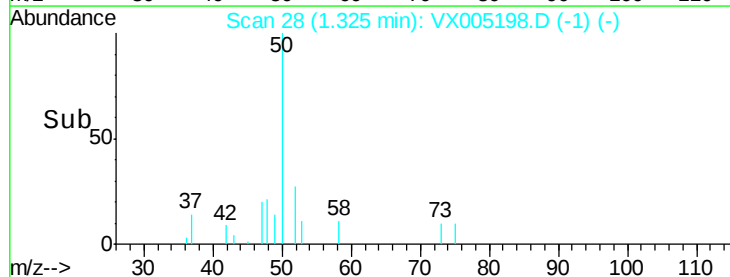
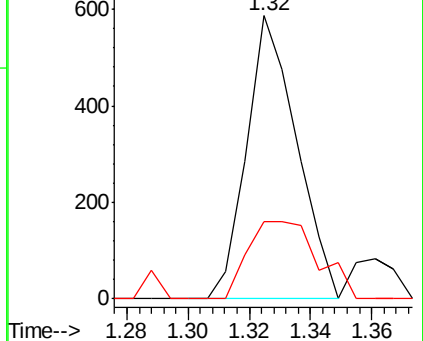
50 100

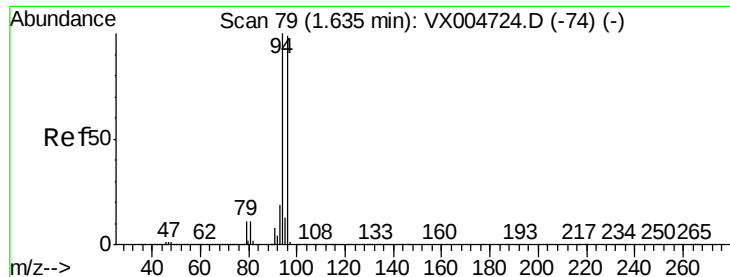
52 27.1 25.8 38.6



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.42 ug/l

RT: 1.64 min Scan# 79

Delta R.T. 0.00 min

Lab File: VX005198.D

Acq: 10 Oct 2018 09:40

Instrument :

MSVOA_X

ClientSampleId :

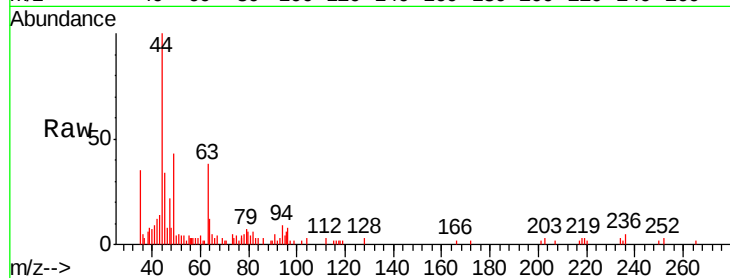
SA-TW515-4044

Tgt Ion: 94 Resp: 684

Ion Ratio Lower Upper

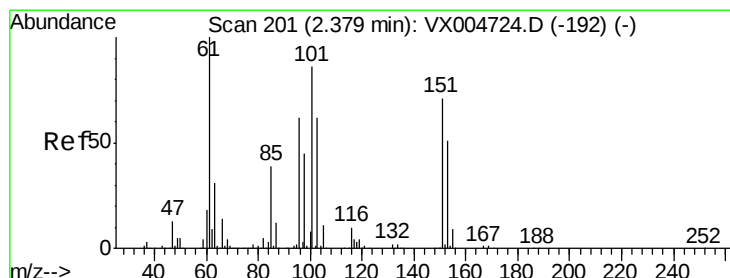
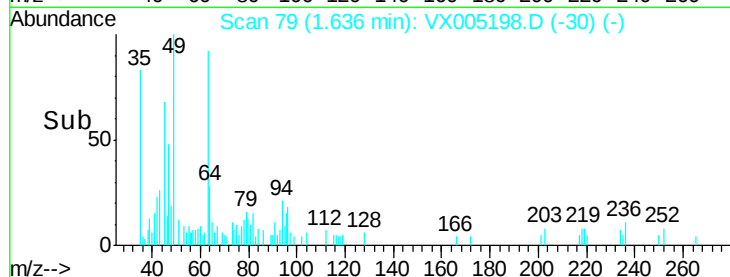
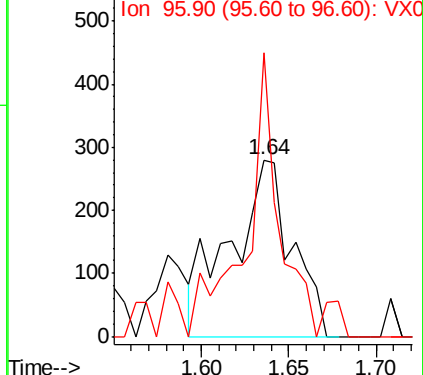
94 100

96 160.4 79.5 119.3#



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: 0.42 ug/l

RT: 2.39 min Scan# 202

Delta R.T. 0.01 min

Lab File: VX005198.D

Acq: 10 Oct 2018 09:40

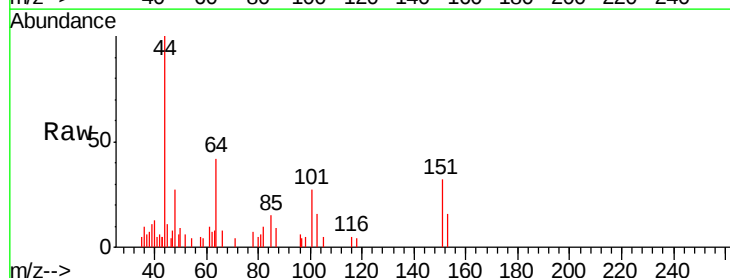
Tgt Ion: 101 Resp: 806

Ion Ratio Lower Upper

101 100

85 57.4 35.9 53.9#

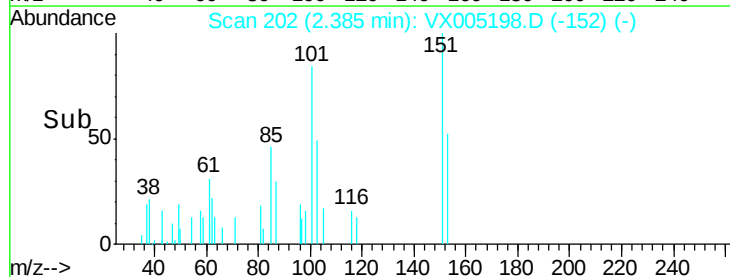
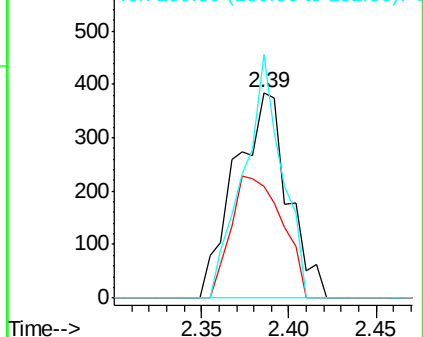
151 85.7 66.6 100.0

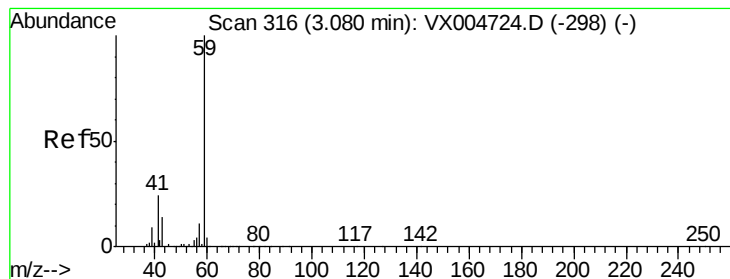


Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V





#11

Tert butyl alcohol

Concen: 0.37 ug/l

RT: 3.07 min Scan# 315

Delta R.T. -0.01 min

Lab File: VX005198.D

Acq: 10 Oct 2018 09:40

Instrument :

MSVOA_X

ClientSampleId :

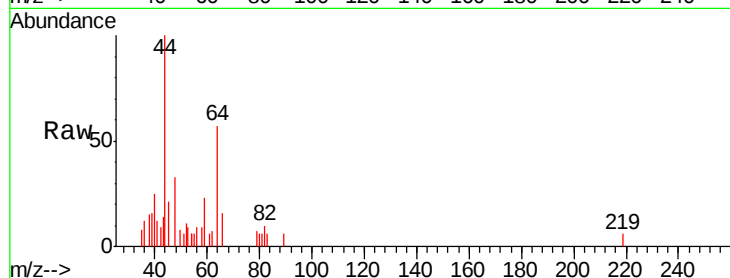
SA-TW515-4044

Tgt Ion: 59 Resp: 259

Ion Ratio Lower Upper

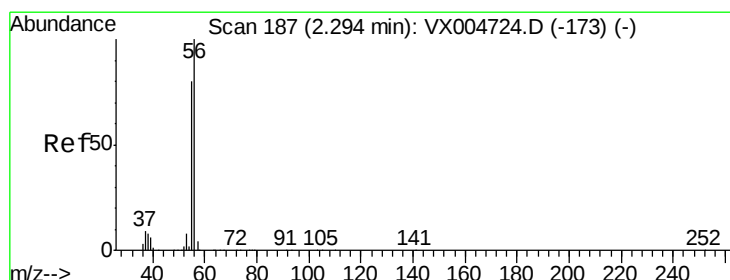
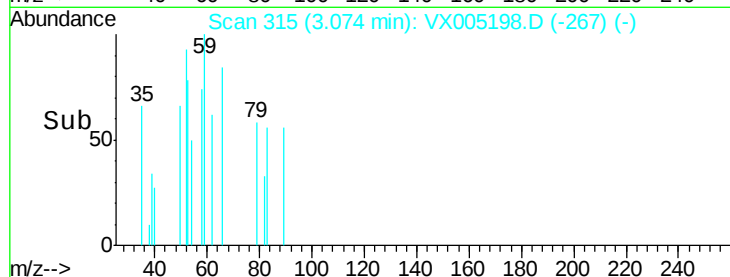
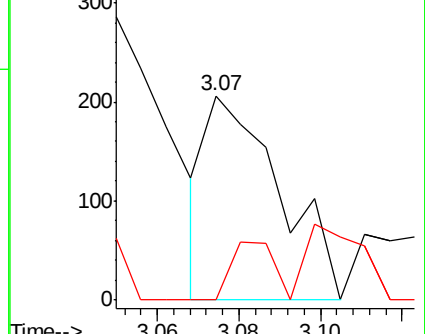
59 100

57 16.2 8.6 12.8#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0



#13

Acrolein

Concen: 0.41 ug/l

RT: 2.30 min Scan# 188

Delta R.T. 0.01 min

Lab File: VX005198.D

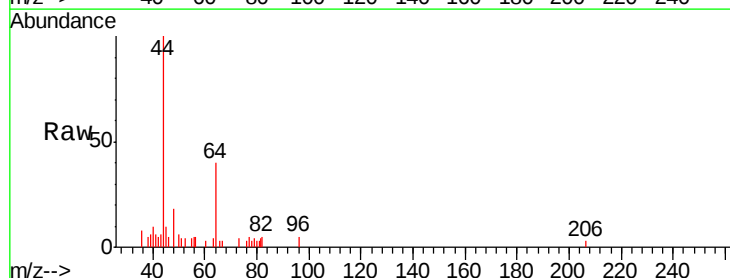
Acq: 10 Oct 2018 09:40

Tgt Ion: 56 Resp: 204

Ion Ratio Lower Upper

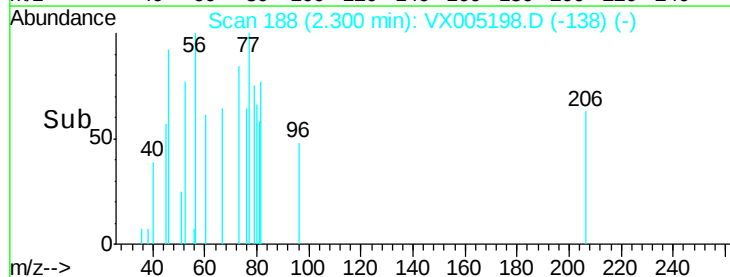
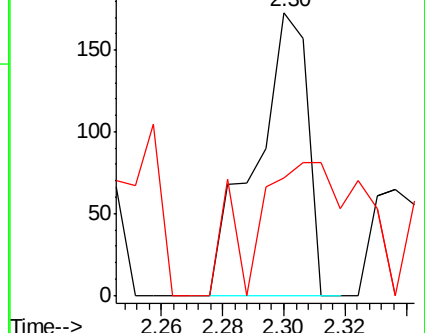
56 100

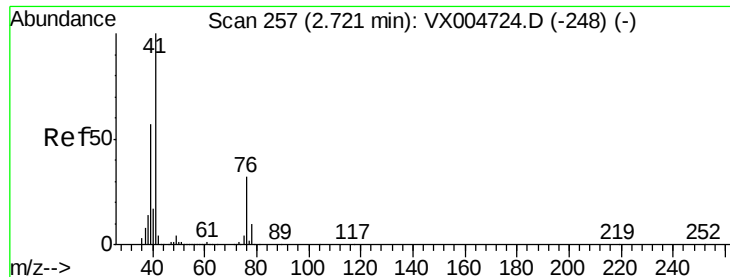
55 98.0 63.4 95.2#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#14

Allyl chloride

Concen: 1.17 ug/l

RT: 2.62 min Scan# 241

Delta R.T. -0.10 min

Lab File: VX005198.D

Acq: 10 Oct 2018 09:40

Instrument :

MSVOA_X

ClientSampleId :

SA-TW515-4044

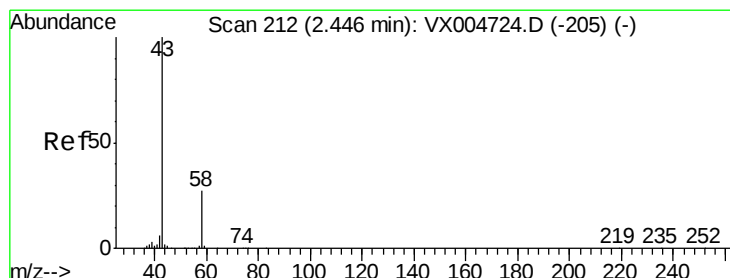
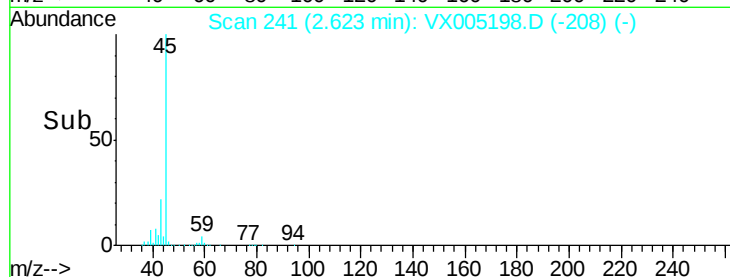
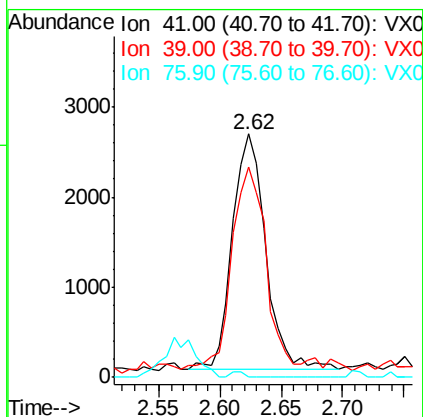
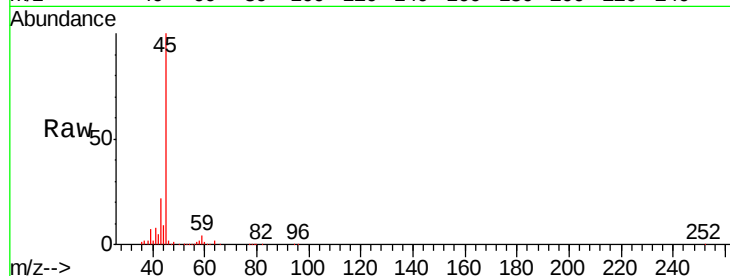
Tgt Ion: 41 Resp: 4882

Ion Ratio Lower Upper

41 100

39 87.8 44.1 66.1#

76 0.8 25.0 37.4#



#16

Acetone

Concen: 2.95 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX005198.D

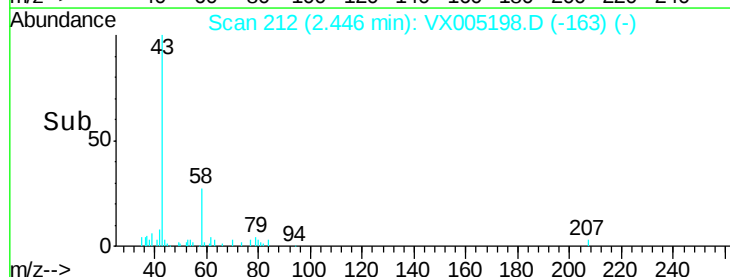
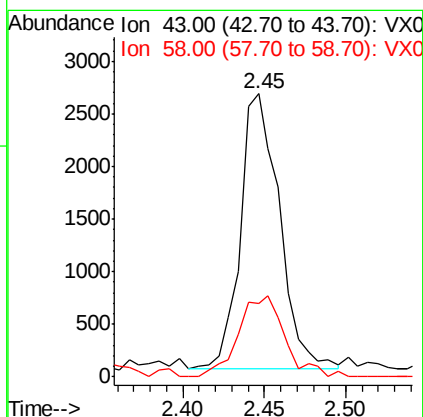
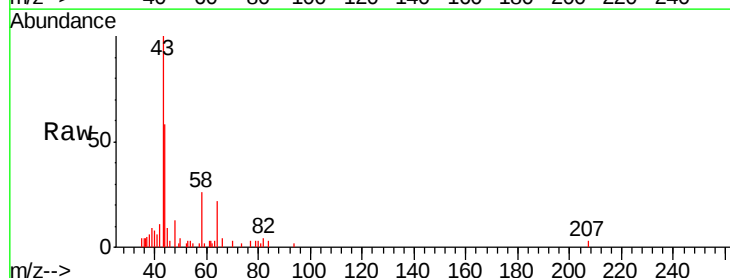
Acq: 10 Oct 2018 09:40

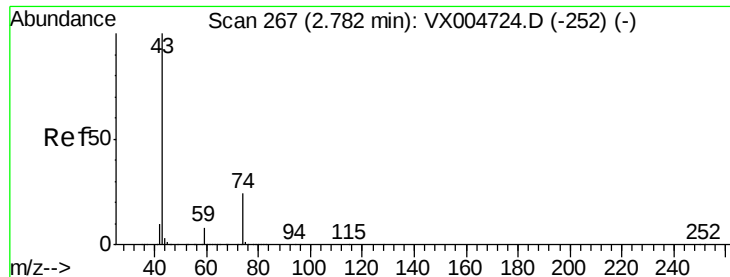
Tgt Ion: 43 Resp: 4332

Ion Ratio Lower Upper

43 100

58 26.9 21.8 32.6

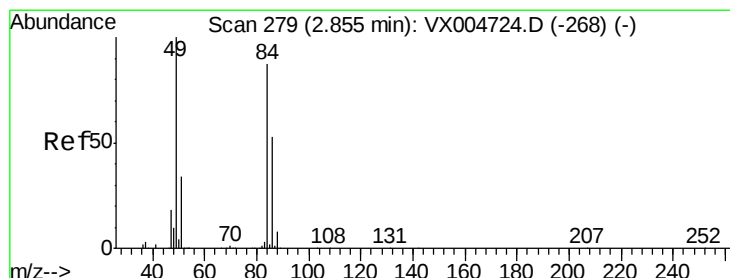
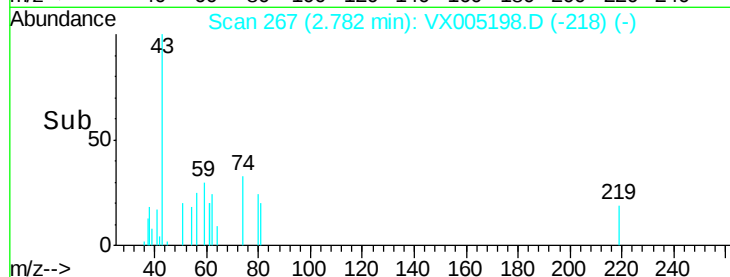
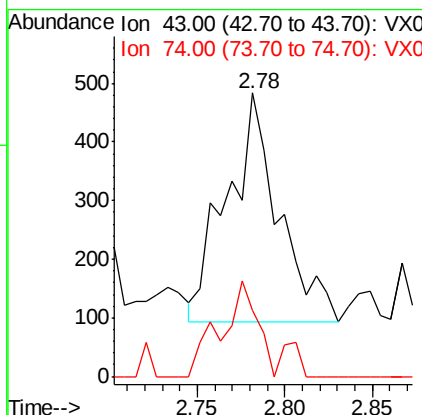
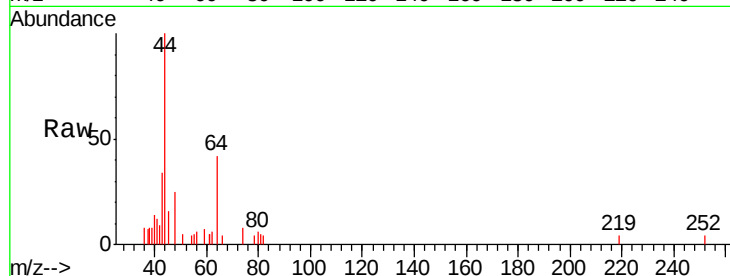




#18
Methyl Acetate
Concen: 0.22 ug/l
RT: 2.78 min Scan# 267
Delta R.T. 0.00 min
Lab File: VX005198.D
Acq: 10 Oct 2018 09:40

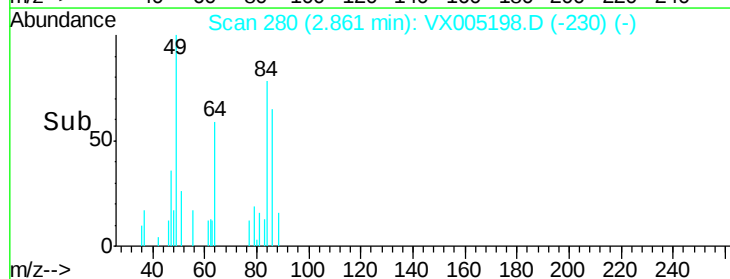
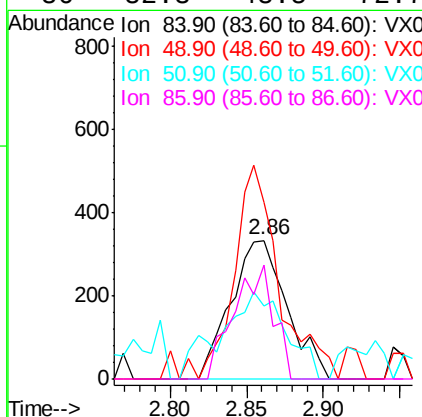
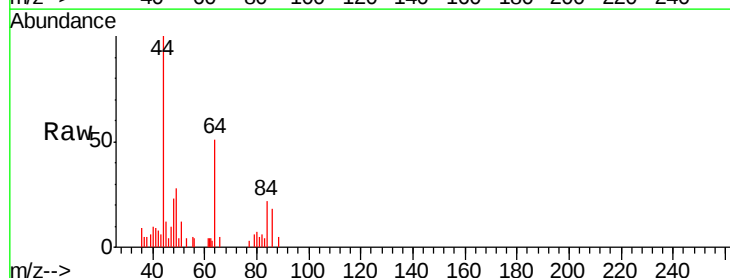
Instrument :
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ClientSampleId :
SA-TW515-4044

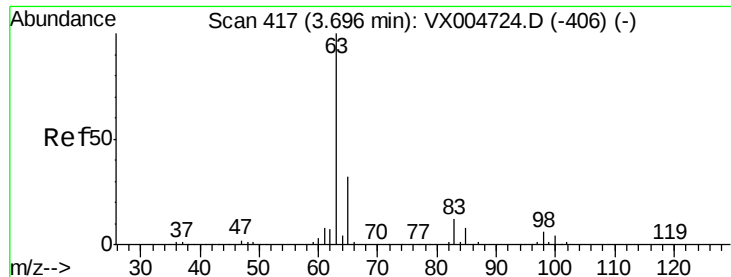
Tgt Ion: 43 Resp: 810
Ion Ratio Lower Upper
43 100
74 29.4 17.8 26.8#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX005198.D
Acq: 10 Oct 2018 09:40

Tgt Ion: 84 Resp: 855
Ion Ratio Lower Upper
84 100
49 127.5 92.3 138.5
51 35.0 31.8 47.6
86 82.3 48.5 72.7#





#24

1,1-Dichloroethane

Concen: 1.03 ug/l

RT: 3.70 min Scan# 417

Delta R.T. 0.00 min

Lab File: VX005198.D

Acq: 10 Oct 2018 09:40

Instrument :

MSVOA_X

ClientSampleId :

SA-TW515-4044

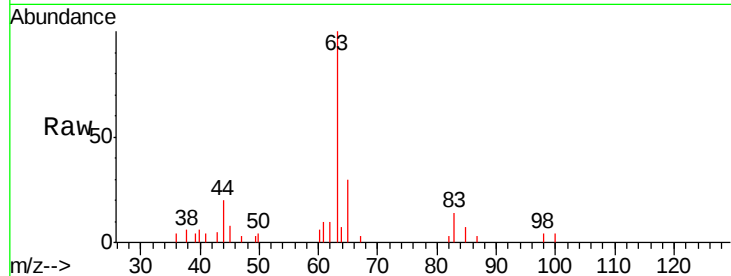
Tgt Ion: 63 Resp: 4320

Ion Ratio Lower Upper

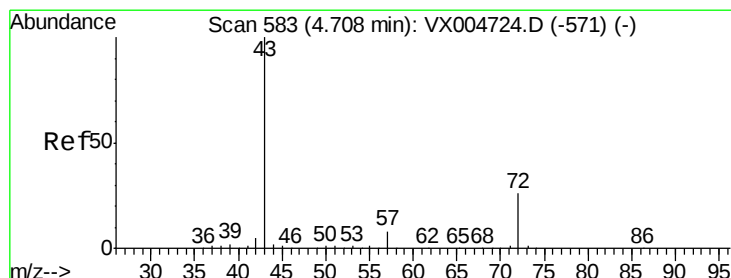
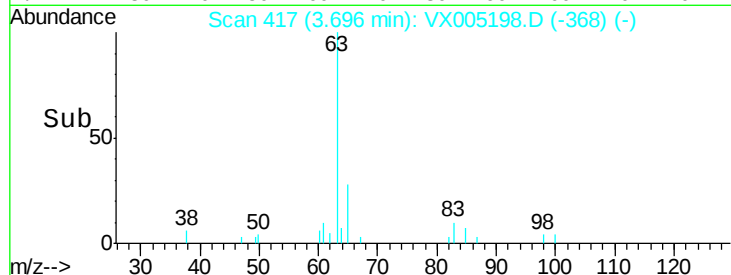
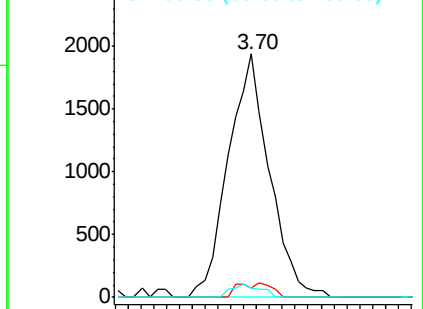
63 100

98 4.0 3.0 9.2

100 3.9 2.0 5.8



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



#25

2-Butanone

Concen: 0.25 ug/l

RT: 4.71 min Scan# 583

Delta R.T. 0.00 min

Lab File: VX005198.D

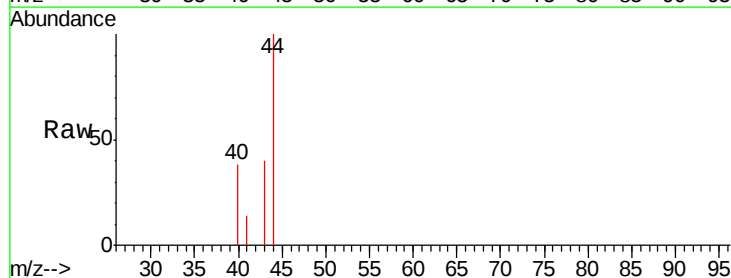
Acq: 10 Oct 2018 09:40

Tgt Ion: 43 Resp: 545

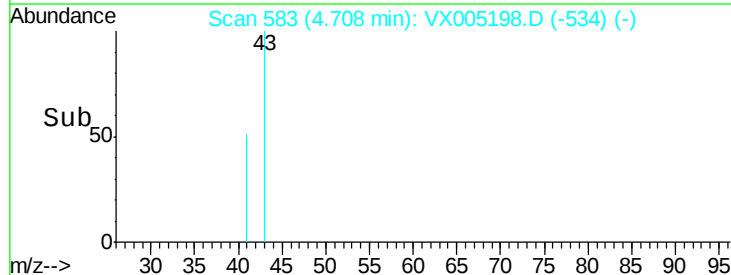
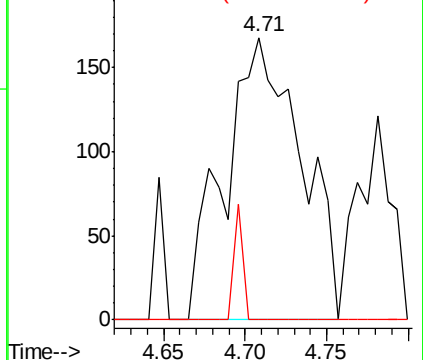
Ion Ratio Lower Upper

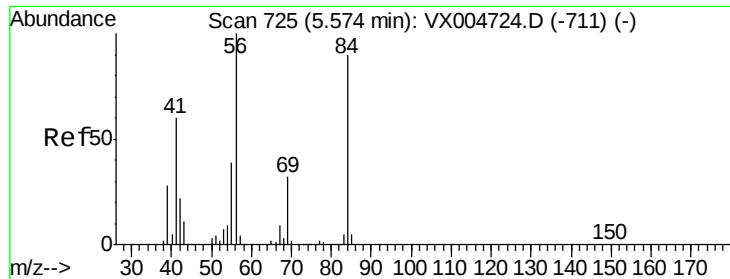
43 100

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

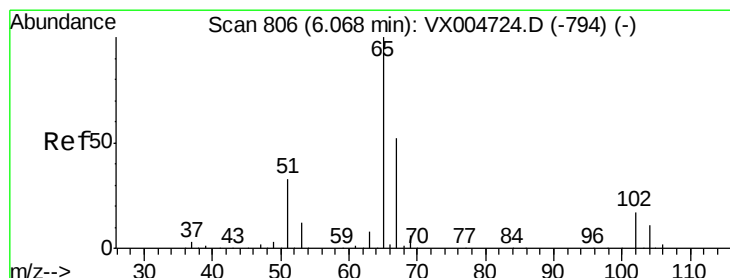
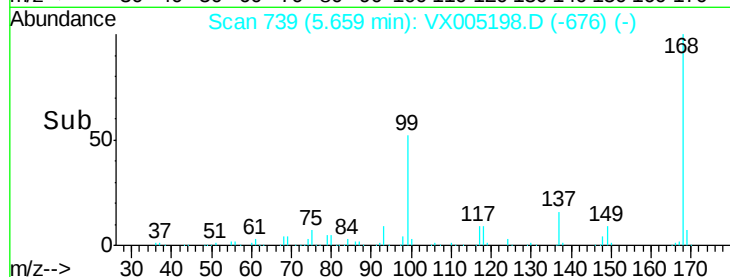
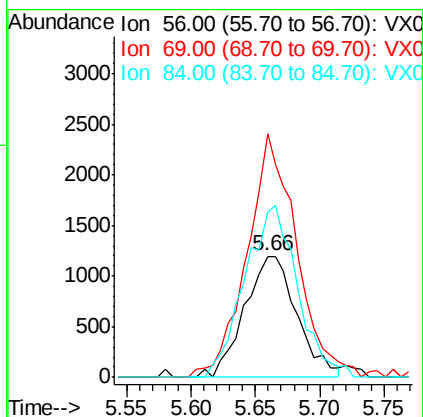
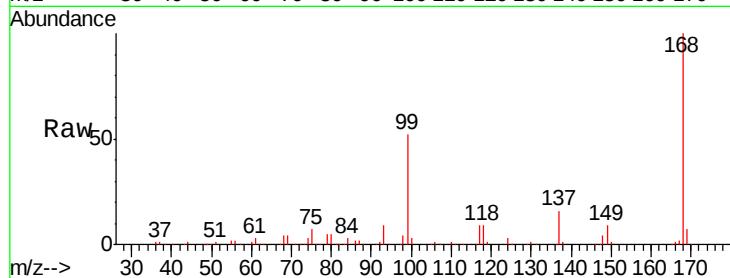




#31
Cyclohexane
Concen: 1.05 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.09 min
Lab File: VX005198.D
Acq: 10 Oct 2018 09:40

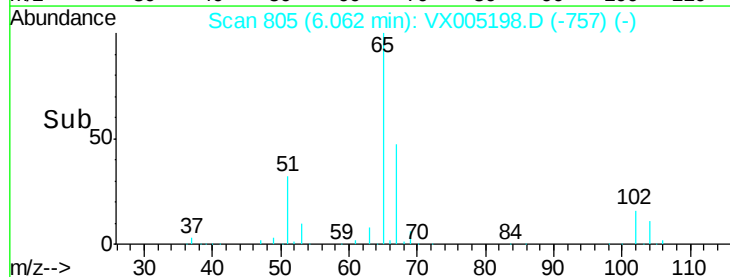
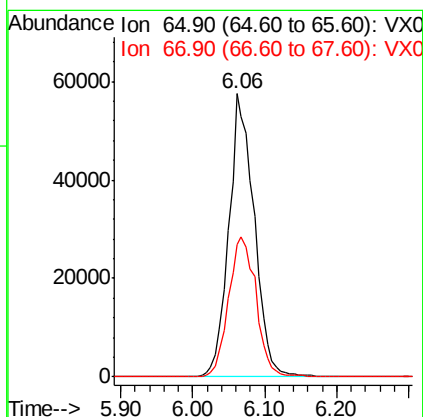
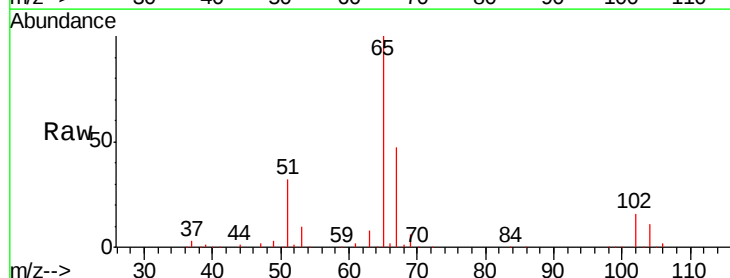
Instrument :
MSVOA_X
ClientSampleId :
SA-TW515-4044

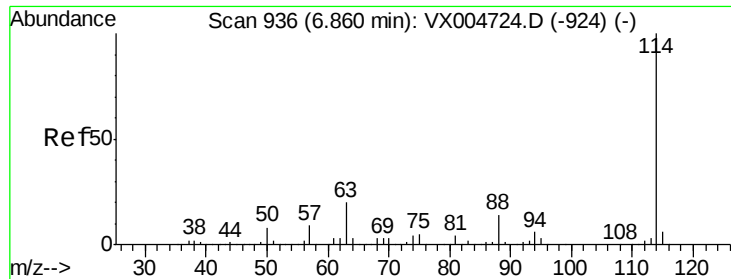
Tgt Ion: 56 Resp: 3356
Ion Ratio Lower Upper
56 100
69 201.4 25.9 38.9#
84 136.9 71.9 107.9#



#33
1,2-Dichloroethane-d4
Concen: 56.24 ug/l
RT: 6.06 min Scan# 805
Delta R.T. -0.01 min
Lab File: VX005198.D
Acq: 10 Oct 2018 09:40

Tgt Ion: 65 Resp: 141315
Ion Ratio Lower Upper
65 100
67 53.4 0.0 107.4

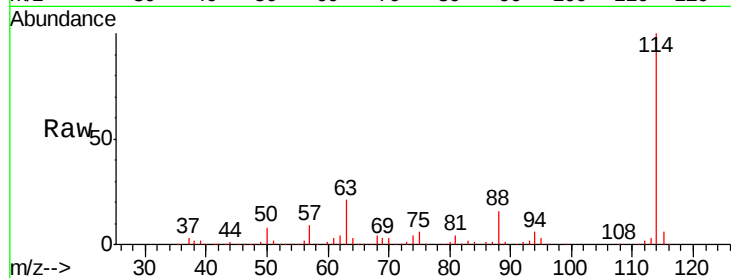




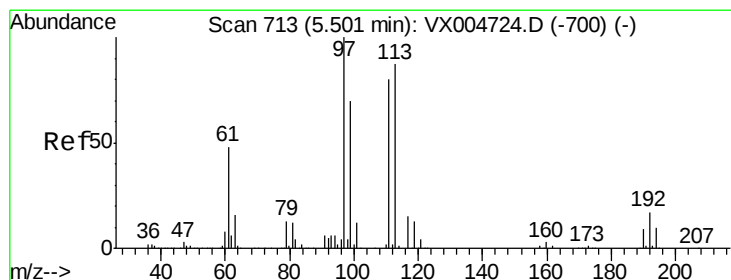
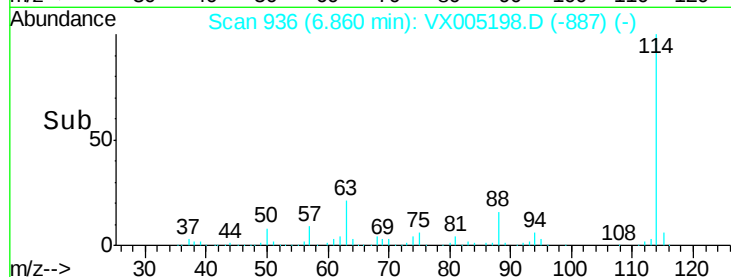
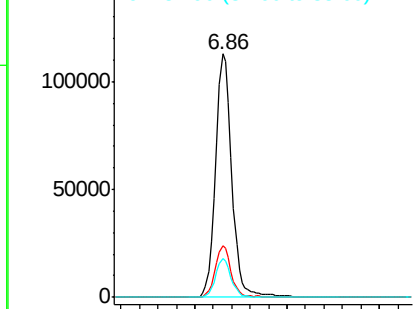
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX005198.D
 Acq: 10 Oct 2018 09:40

Instrument :
 MSVOA_X
 ClientSampleId :
 SA-TW515-4044

Tgt Ion:114 Resp: 277150
 Ion Ratio Lower Upper
 114 100
 63 21.4 0.0 39.8
 88 15.9 0.0 27.0

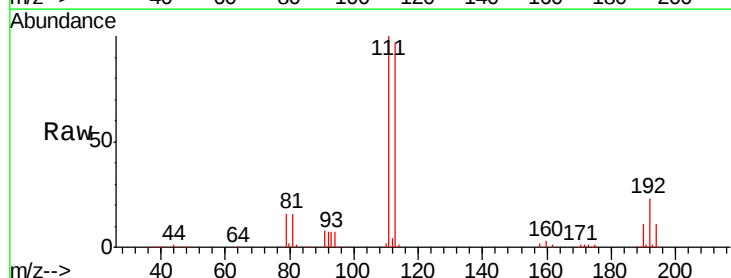


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

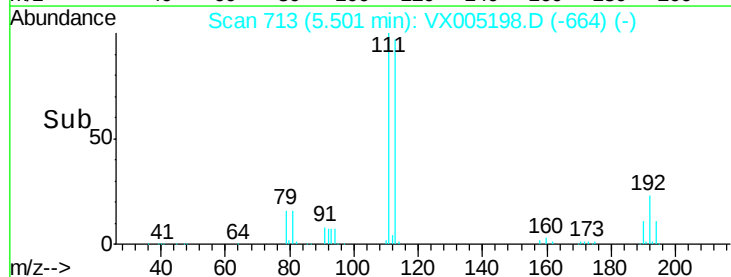
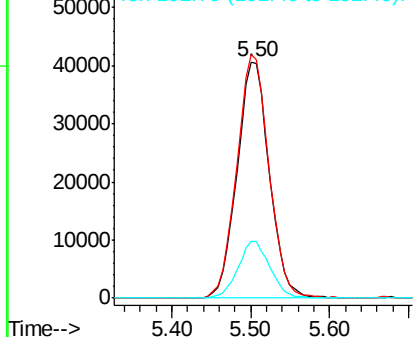


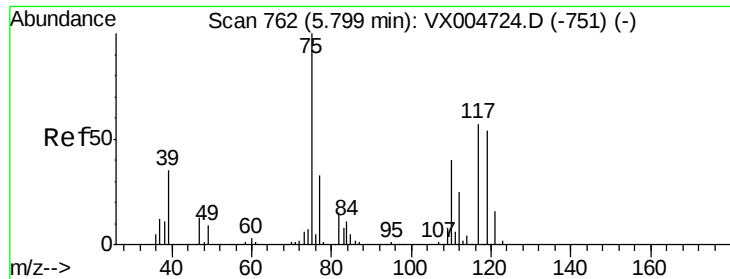
#35
 Dibromofluoromethane
 Concen: 49.16 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.00 min
 Lab File: VX005198.D
 Acq: 10 Oct 2018 09:40

Tgt Ion:113 Resp: 115477
 Ion Ratio Lower Upper
 113 100
 111 102.7 77.0 115.4
 192 23.6 17.0 25.6



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

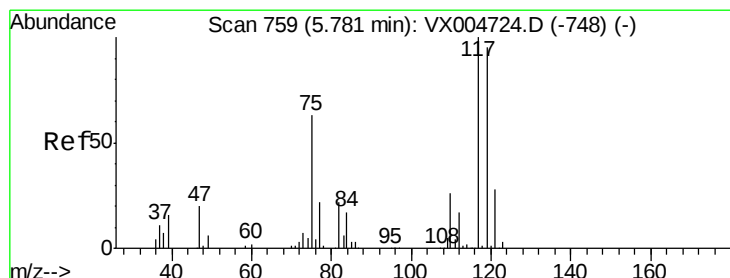
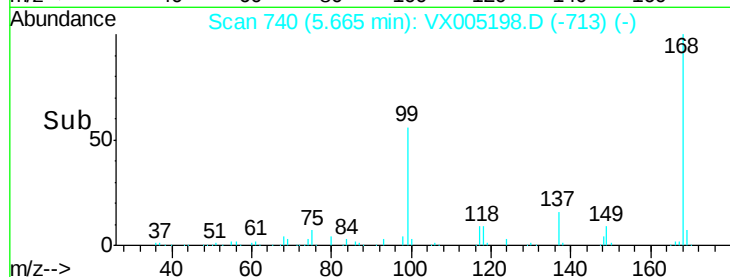
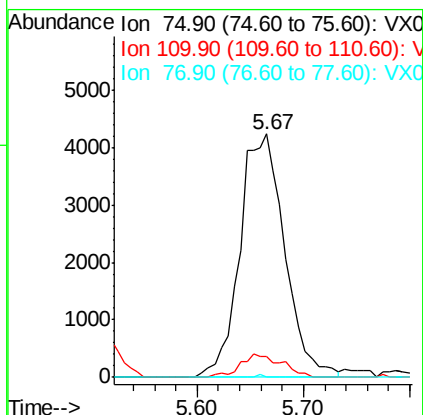
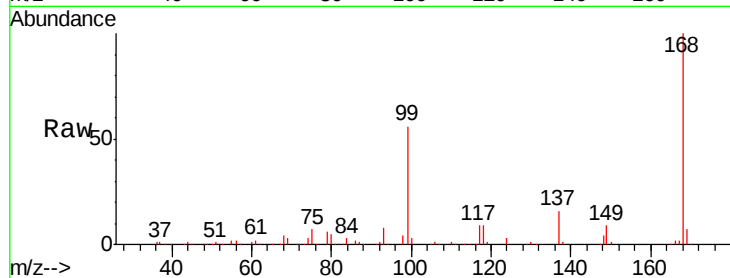




#36
 1,1-Dichloropropene
 Concen: 3.88 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX005198.D
 Acq: 10 Oct 2018 09:40

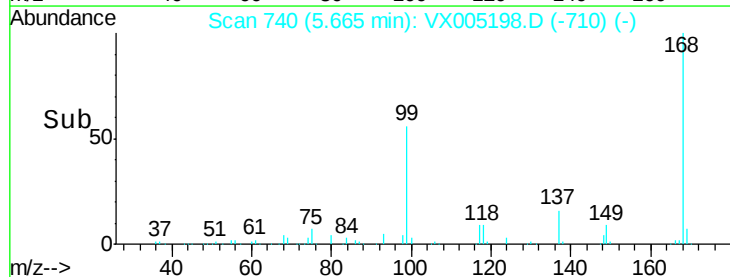
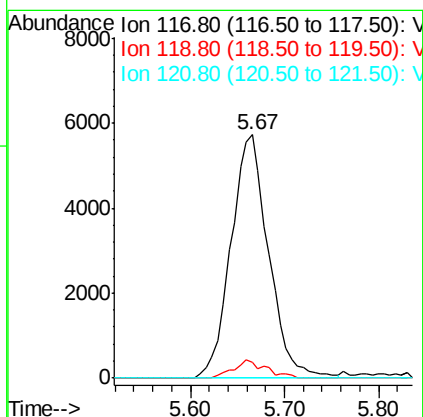
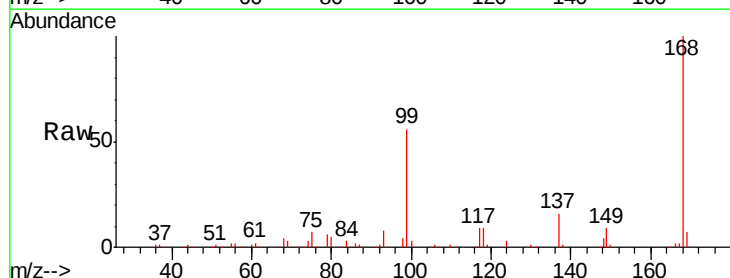
Instrument :
 MSVOA_X
 ClientSampleId :
 SA-TW515-4044

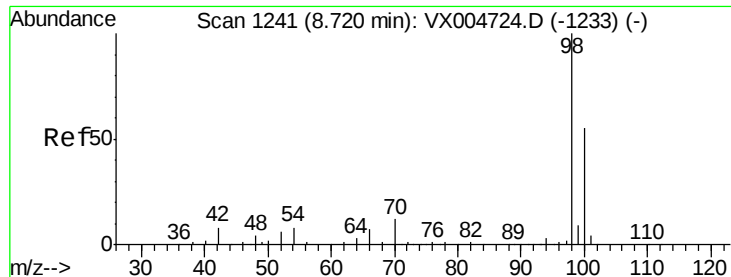
Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.9	20.0	59.9#
77	0.1	27.1	40.7#



#38
 Carbon Tetrachloride
 Concen: 4.71 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.12 min
 Lab File: VX005198.D
 Acq: 10 Oct 2018 09:40

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.7	75.2	112.8#
121	0.0	22.5	33.7#





#50

Toluene-d8

Concen: 51.59 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.01 min

Lab File: VX005198.D

Acq: 10 Oct 2018 09:40

Instrument :

MSVOA_X

ClientSampleId :

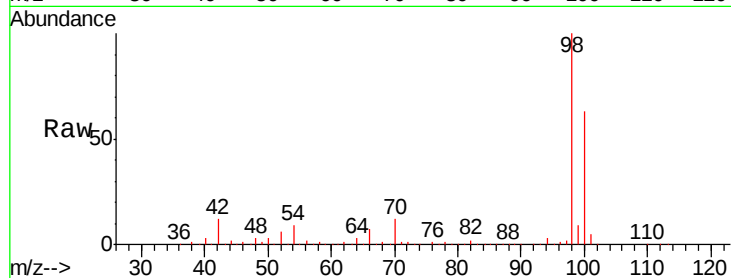
SA-TW515-4044

Tgt Ion: 98 Resp: 402871

Ion Ratio Lower Upper

98 100

100 63.1 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

8.71

250000

200000

150000

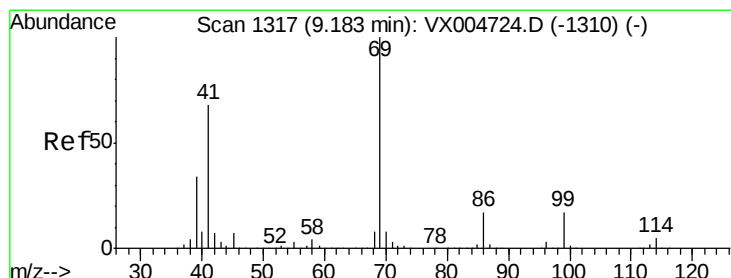
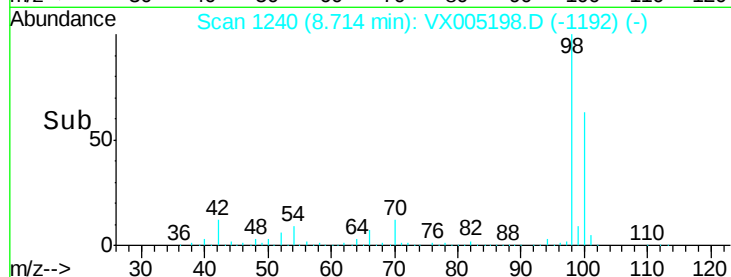
100000

50000

0

8.60 8.70 8.80 8.90

Time-->



#56

Ethyl methacrylate

Concen: 2.87 ug/l

RT: 9.21 min Scan# 1322

Delta R.T. 0.03 min

Lab File: VX005198.D

Acq: 10 Oct 2018 09:40

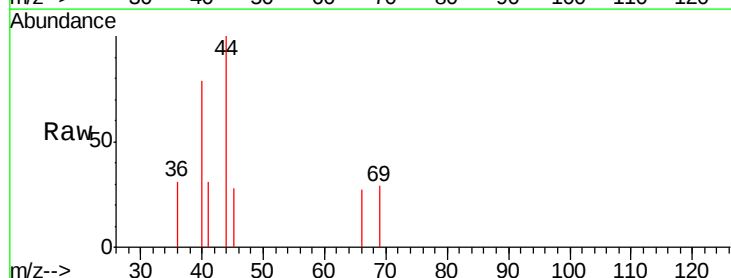
Tgt Ion: 69 Resp: 21

Ion Ratio Lower Upper

69 100

41 319.0 56.9 85.3#

39 100.0 28.4 42.6#



Abundance Ion 69.00 (68.70 to 69.70): VX0

Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

80

60

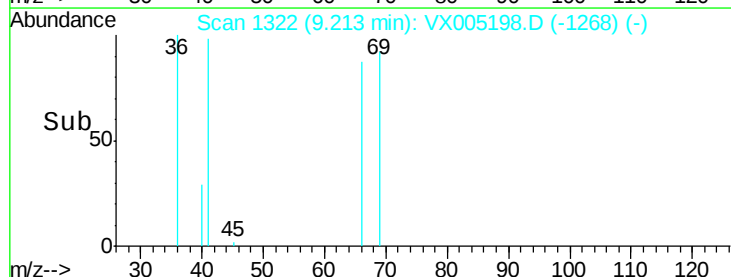
40

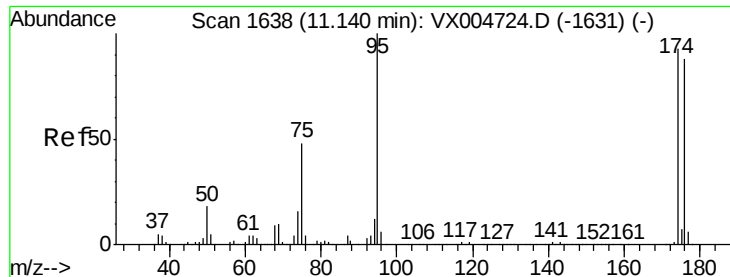
20

0

9.19 9.20 9.21 9.22 9.23

Time-->

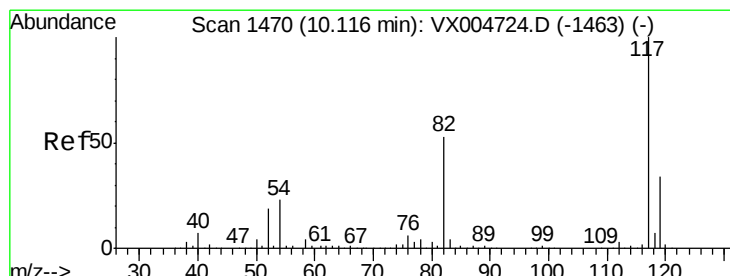
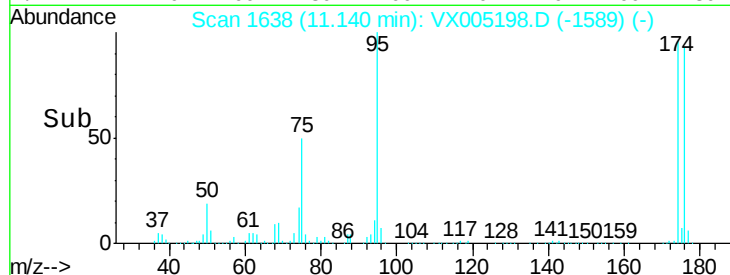
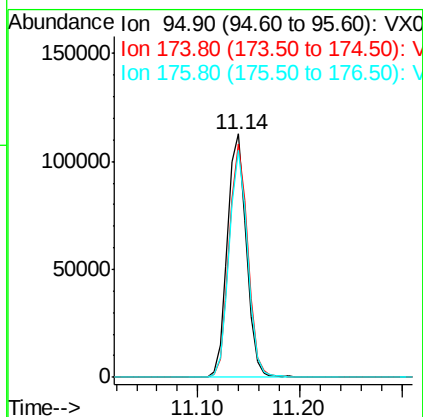
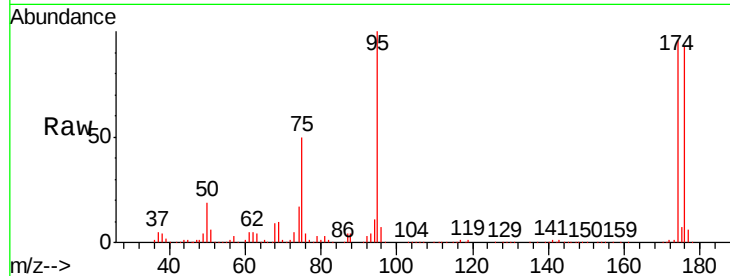




#62
4-Bromofluorobenzene
Concen: 51.52 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. 0.00 min
Lab File: VX005198.D
Acq: 10 Oct 2018 09:40

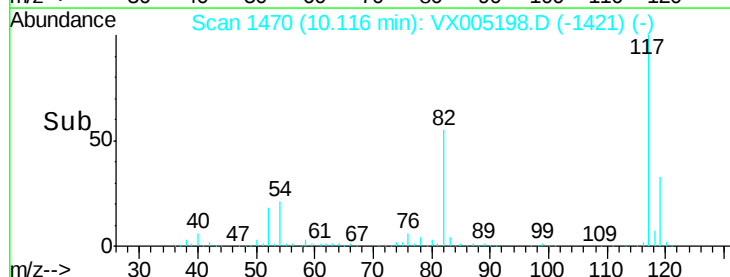
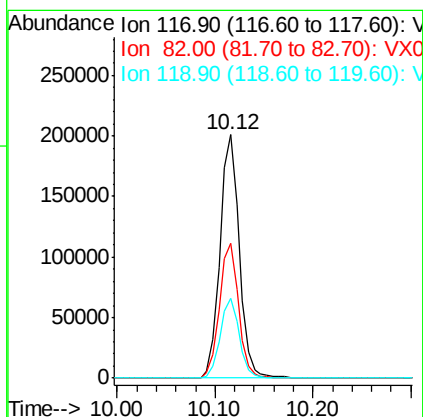
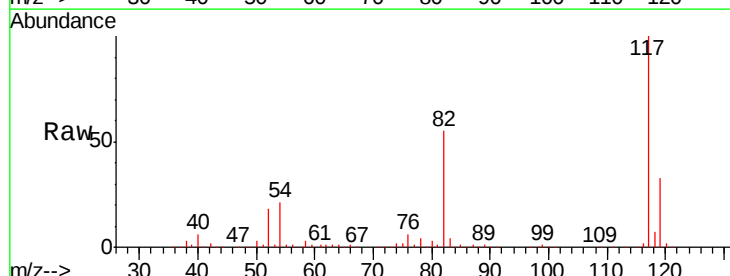
Instrument :
MSVOA_X
ClientSampleId :
SA-TW515-4044

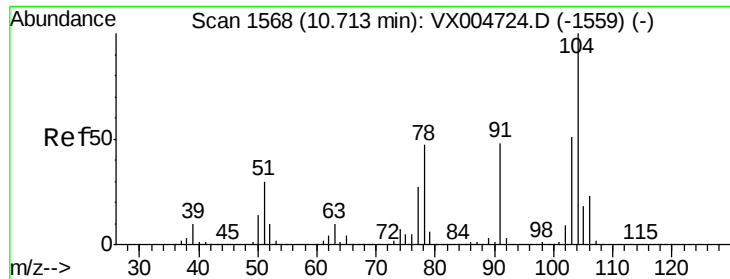
Tgt Ion: 95 Resp: 144923
Ion Ratio Lower Upper
95 100
174 94.3 0.0 185.0
176 90.9 0.0 180.2



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.00 min
Lab File: VX005198.D
Acq: 10 Oct 2018 09:40

Tgt Ion: 117 Resp: 276284
Ion Ratio Lower Upper
117 100
82 55.2 42.2 63.4
119 32.6 27.4 41.0





#70

Styrene

Concen: 2.14 ug/l

RT: 10.73 min Scan# 1570

Delta R.T. 0.01 min

Lab File: VX005198.D

Acq: 10 Oct 2018 09:40

Instrument :

MSVOA_X

ClientSampleId :

SA-TW515-4044

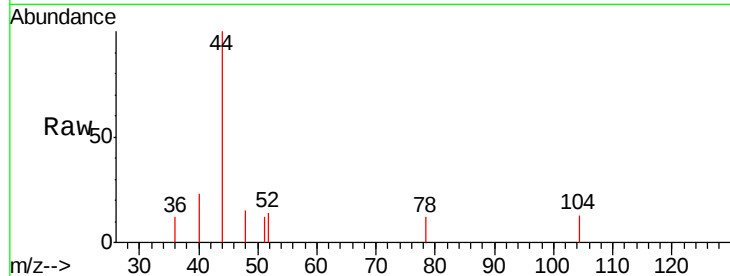
Tgt Ion:104 Resp: 20

Ion Ratio Lower Upper

104 100

78 95.0 40.0 60.0#

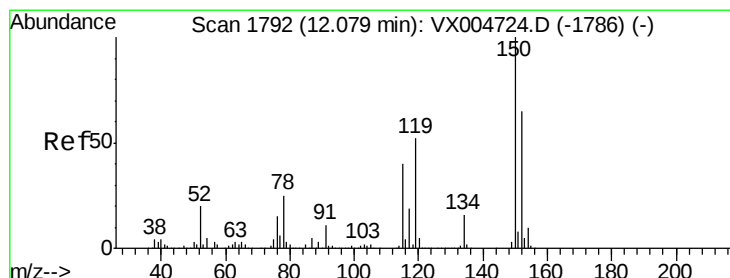
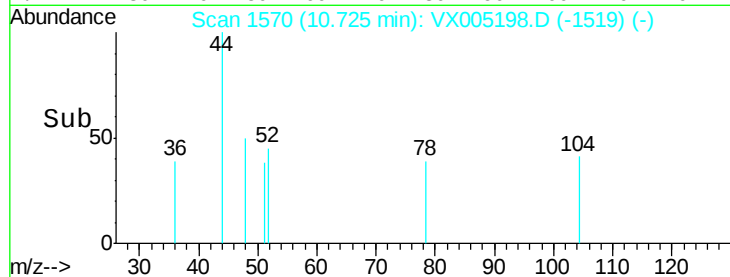
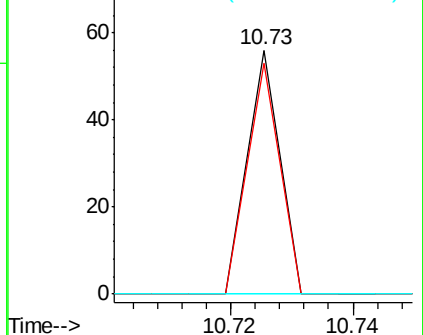
103 0.0 44.3 66.5#



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: VX005198.D

Acq: 10 Oct 2018 09:40

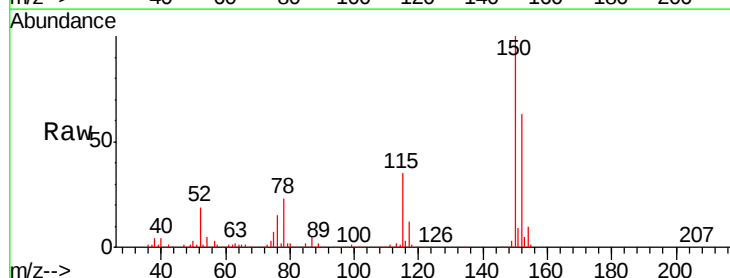
Tgt Ion:152 Resp: 155967

Ion Ratio Lower Upper

152 100

115 54.5 40.2 120.6

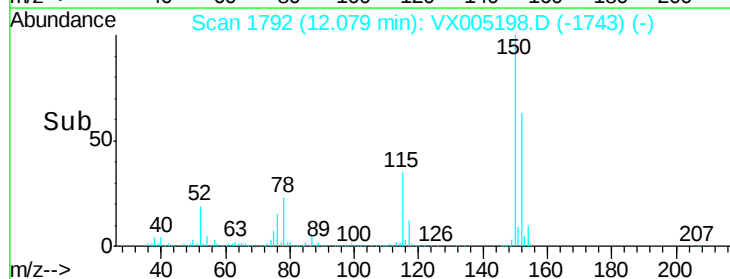
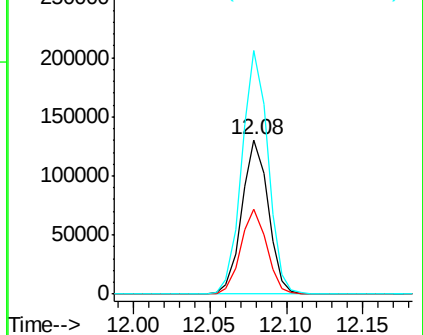
150 157.1 0.0 351.0

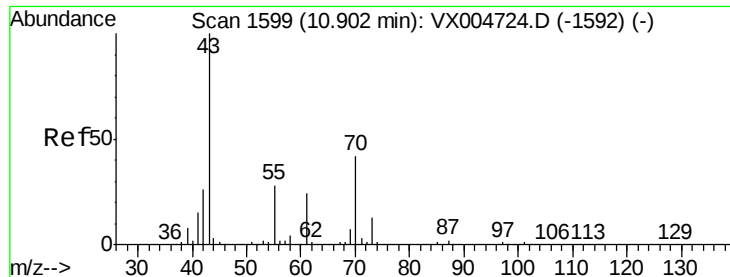


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amyI acetate

Concen: 1.77 ug/l

RT: 10.91 min Scan# 1600

Delta R.T. 0.01 min

Lab File: VX005198.D

Acq: 10 Oct 2018 09:40

Instrument :

MSVOA_X

ClientSampleId :

SA-TW515-4044

Tgt Ion: 43 Resp: 133

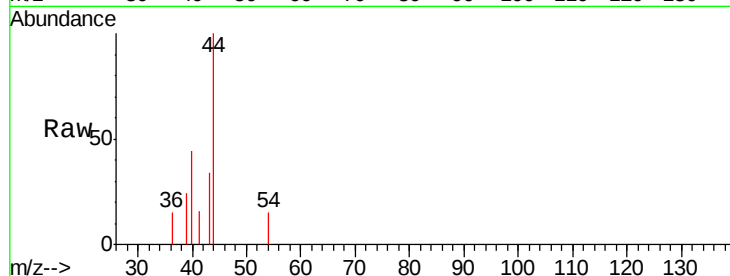
Ion Ratio Lower Upper

43 100

70 0.0 32.6 48.8#

55 0.0 21.6 32.4#

61 0.0 19.1 28.7#

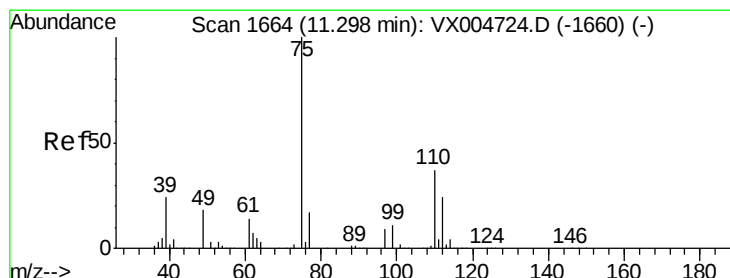
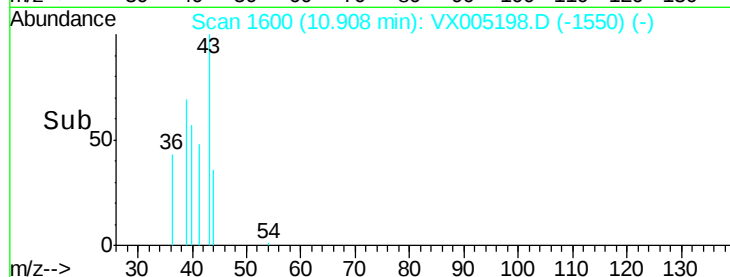
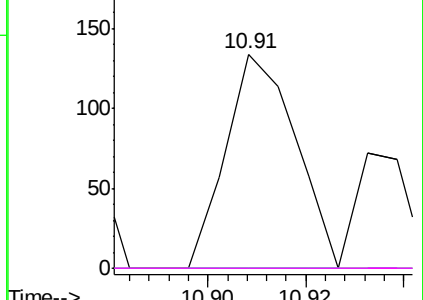


Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 20.62 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005198.D

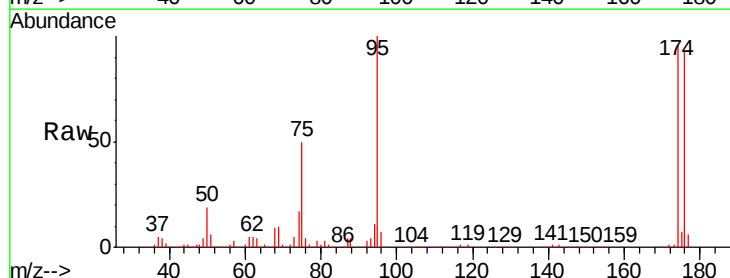
Acq: 10 Oct 2018 09:40

Tgt Ion: 75 Resp: 72069

Ion Ratio Lower Upper

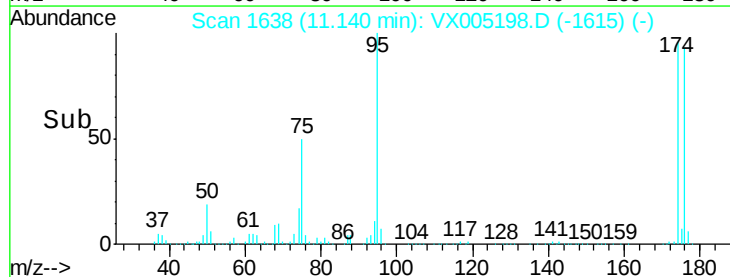
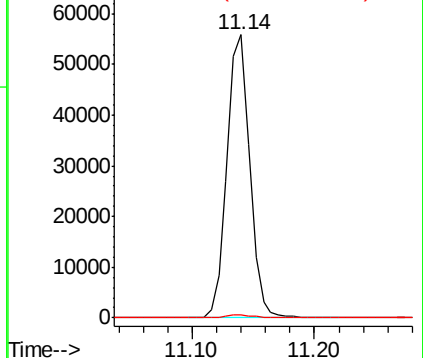
75 100

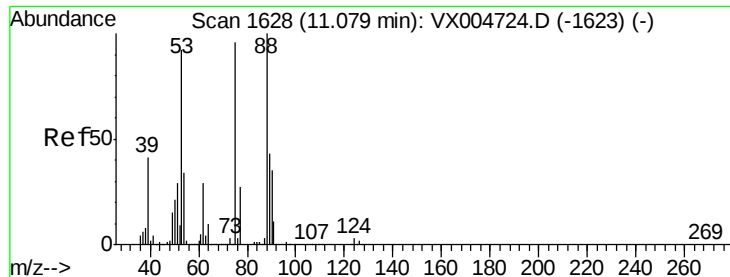
77 1.4 21.4 64.3#



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: 55.98 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.06 min

Lab File: VX005198.D

Acq: 10 Oct 2018 09:40

Instrument :

MSVOA_X

ClientSampleId :

SA-TW515-4044

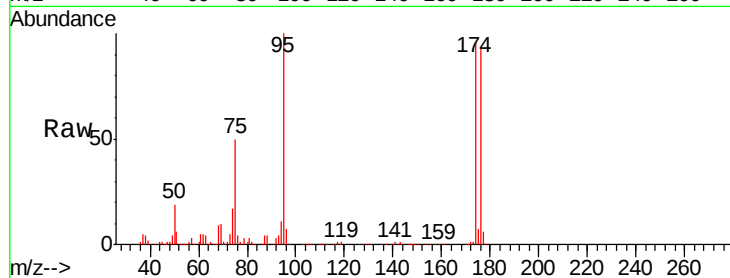
Tgt Ion: 75 Resp: 72069

Ion Ratio Lower Upper

75 100

53 0.2 80.2 120.4#

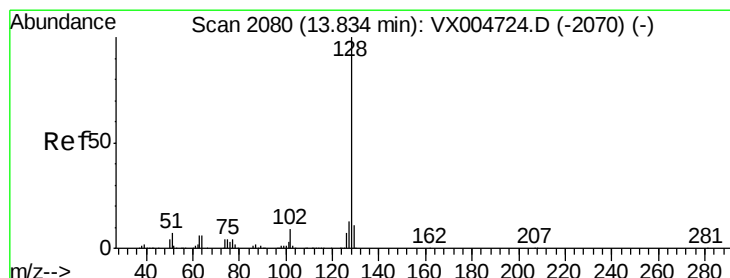
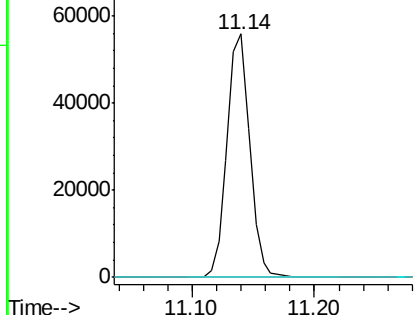
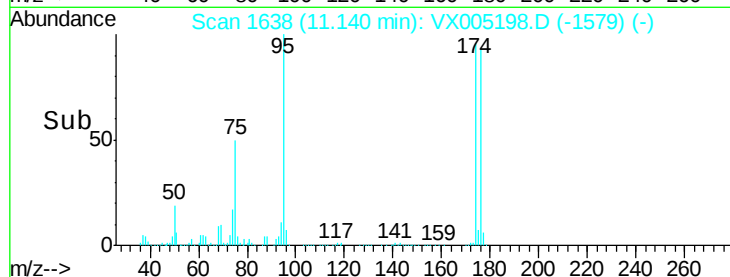
89 0.0 37.1 55.7#



Abundance Ion 74.90 (74.60 to 75.60): VX005198.D (-1579) (-)

Ion 53.00 (52.70 to 53.70): VX005198.D (-1579) (-)

Ion 88.90 (88.60 to 89.60): VX005198.D (-1579) (-)



#95

Naphthalene

Concen: 0.76 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX005198.D

Acq: 10 Oct 2018 09:40

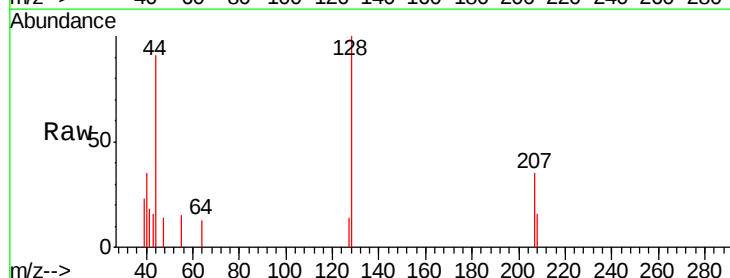
Tgt Ion: 128 Resp: 480

Ion Ratio Lower Upper

128 100

127 4.2 10.4 15.6#

129 0.0 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): VX005198.D (-2031) (-)

Ion 127.00 (126.70 to 127.70): VX005198.D (-2031) (-)

Ion 129.00 (128.70 to 129.70): VX005198.D (-2031) (-)

