

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100918\
 Data File : VX005190.D
 Acq On : 10 Oct 2018 06:05
 Operator : JC/MD
 Sample : J5303-07
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SA-TW513-4044

Quant Time: Oct 10 08:33:45 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	194227	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	292638	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	290578	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	162518	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	145350	52.39	ug/l	0.00
Spiked Amount			Recovery	=	104.78%	
35) Dibromofluoromethane	5.49	113	125038	50.42	ug/l	0.00
Spiked Amount			Recovery	=	100.84%	
50) Toluene-d8	8.72	98	420158	50.96	ug/l	0.00
Spiked Amount			Recovery	=	101.92%	
62) 4-Bromofluorobenzene	11.14	95	152255	51.26	ug/l	0.00
Spiked Amount			Recovery	=	102.52%	

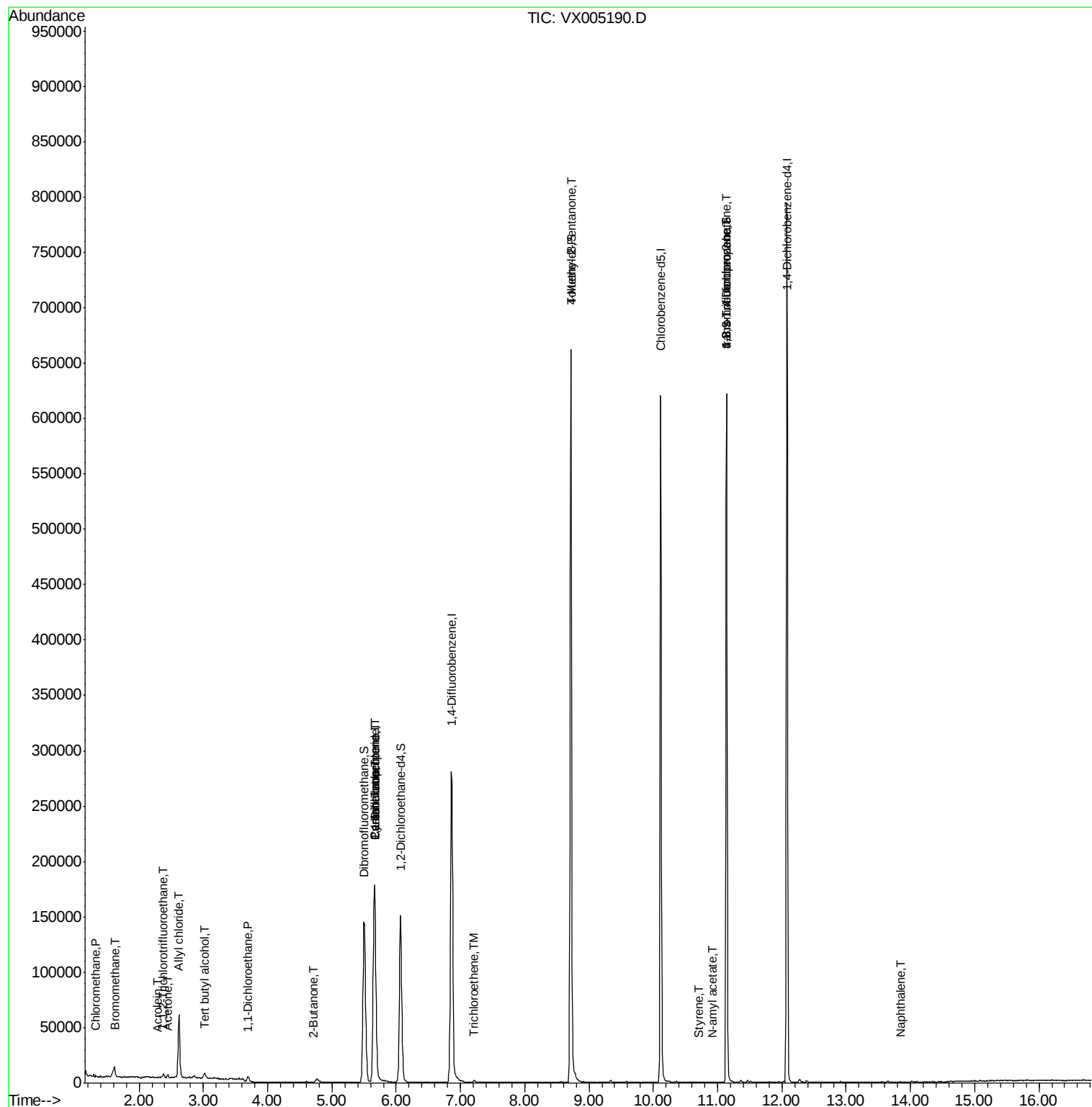
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	729	0.227	ug/l	92
5) Bromomethane	1.64	94	1032	0.578	ug/l #	67
6) Chloroethane	1.68	64	101	Below Cal	#	45
9) 1,1,2-Trichlorotrifluoroet	2.39	101	713	0.336	ug/l #	92
11) Tert butyl alcohol	3.01	59	3538	4.561	ug/l #	79
13) Acrolein	2.29	56	135	0.245	ug/l #	34
14) Allyl chloride	2.62	41	5633	1.227	ug/l #	60
16) Acetone	2.45	43	3282	2.026	ug/l #	80
20) Methylene Chloride	2.85	84	756	Below Cal	#	78
24) 1,1-Dichloroethane	3.70	63	4872	1.056	ug/l #	96
25) 2-Butanone	4.72	43	509	0.213	ug/l #	49
31) Cyclohexane	5.66	56	3567	1.010	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	13293	3.928	ug/l #	46
38) Carbon Tetrachloride	5.66	117	16330	4.591	ug/l #	17
44) Trichloroethene	7.21	130	728	0.280	ug/l	87
51) 4-Methyl-2-Pentanone	8.72	43	1985	0.486	ug/l #	1
70) Styrene	10.71	104	60	2.148	ug/l #	47
74) N-amyl acetate	10.91	43	192	1.781	ug/l #	43
76) 1,2,3-Trichloropropane	11.14	75	75869	20.828	ug/l #	35
80) 1,3,5-Trimethylbenzene	11.51	105	214	Below Cal		95
81) trans-1,4-Dichloro-2-buten	11.14	75	75869	56.536	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.81	105	360	Below Cal		82
95) Naphthalene	13.83	128	483	0.755	ug/l #	69

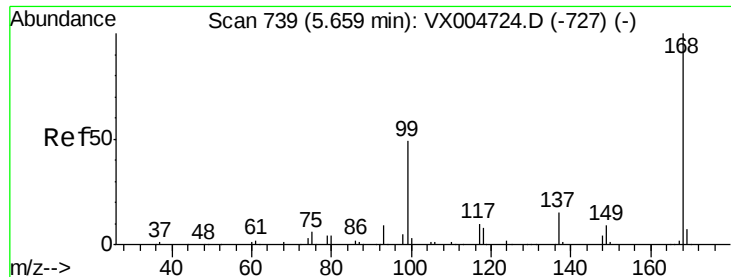
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX100918\
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Quant Title : SW846 8260
QLast Update : Wed Oct 03 04:00:03 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX005190.D

Acq: 10 Oct 2018 06:05

Instrument :

MSVOA_X

ClientSampleId :

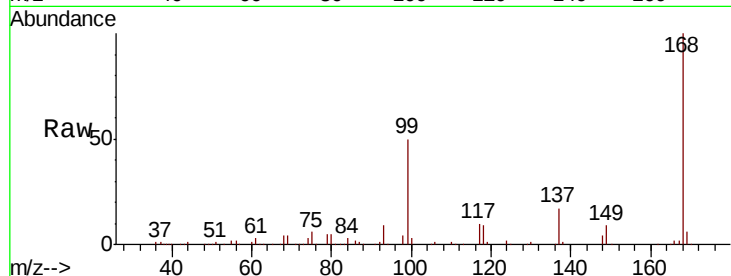
SA-TW513-4044

Tot Ion:168 Resp: 194227

Ion Ratio Lower Upper

168 100

99 49.7 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

60000

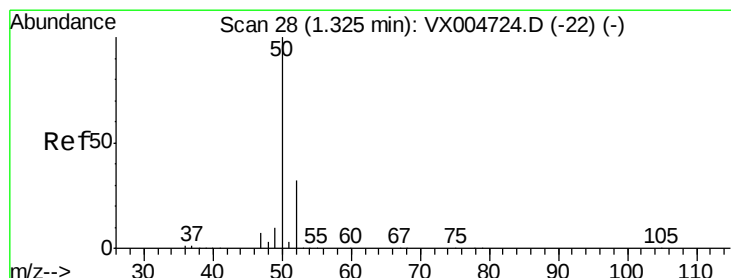
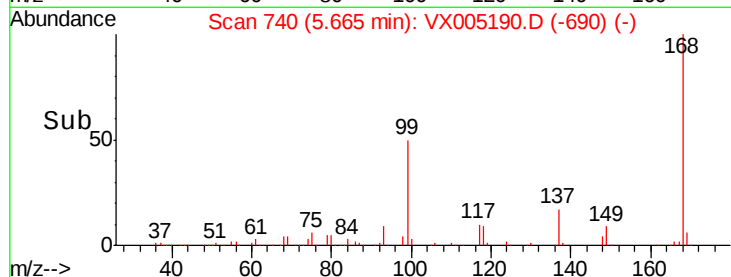
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.227 ug/l

RT: 1.32 min Scan# 28

Delta R.T. -0.00 min

Lab File: VX005190.D

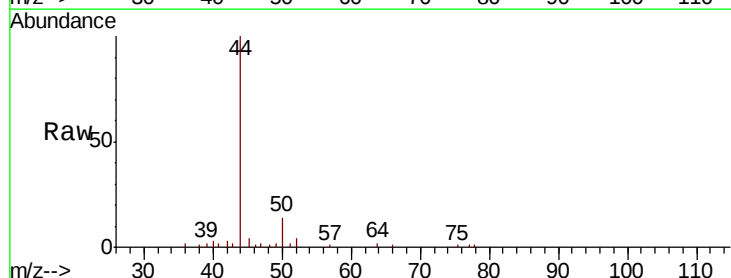
Acq: 10 Oct 2018 06:05

Tgt Ion: 50 Resp: 729

Ion Ratio Lower Upper

50 100

52 27.8 25.8 38.6



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

600

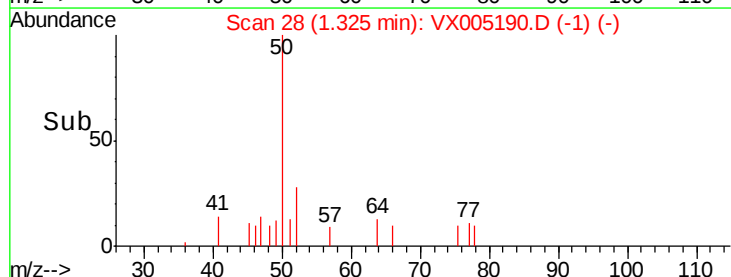
400

200

0

Time-->

1.30 1.35





#5

Bromomethane

Concen: 0.578 ug/l

RT: 1.64 min Scan# 79

Delta R.T. -0.00 min

Lab File: VX005190.D

Acq: 10 Oct 2018 06:05

Instrument :

MSVOA_X

ClientSampleId :

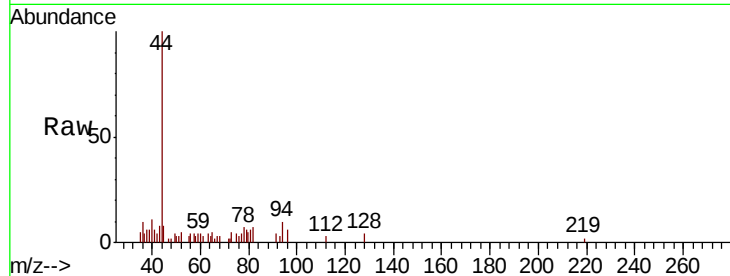
SA-TW513-4044

Tot Ion: 94 Resp: 1032

Ion Ratio Lower Upper

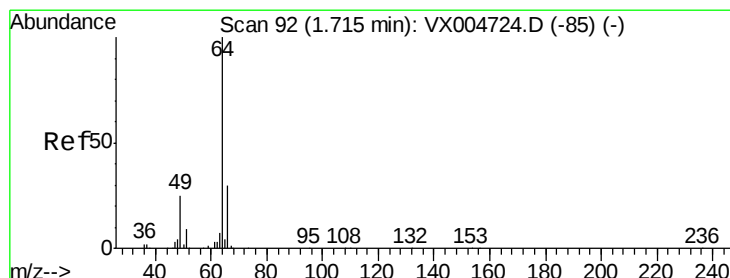
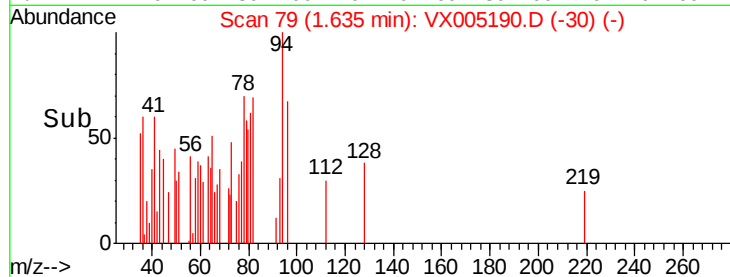
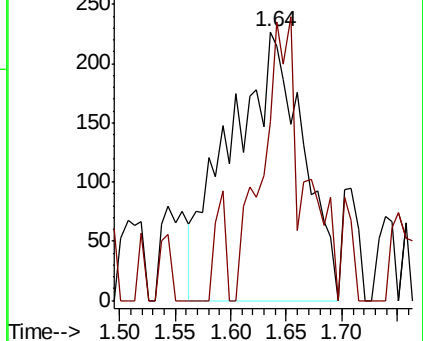
94 100

96 66.5 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: Below Cal

RT: 1.68 min Scan# 87

Delta R.T. -0.03 min

Lab File: VX005190.D

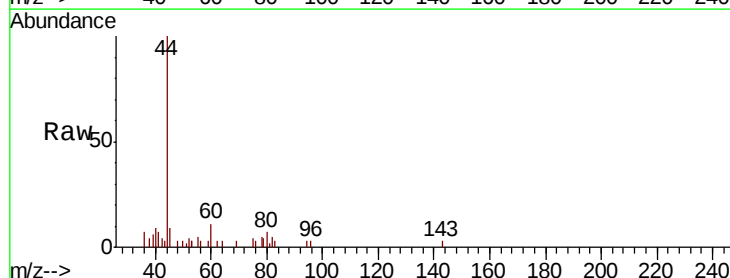
Acq: 10 Oct 2018 06:05

Tgt Ion: 64 Resp: 101

Ion Ratio Lower Upper

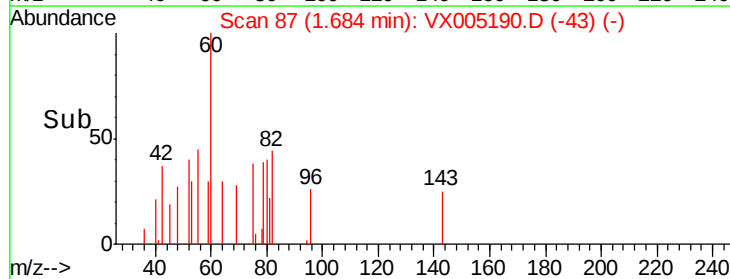
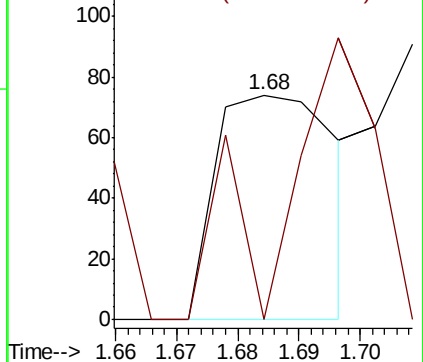
64 100

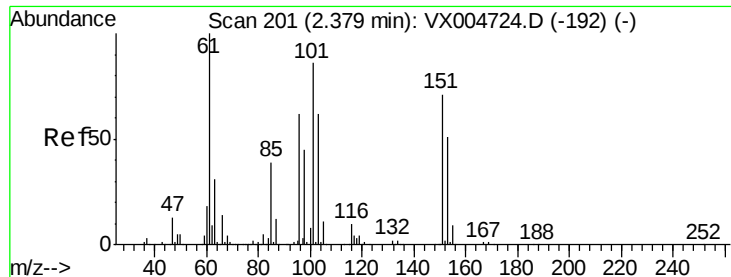
66 0.0 23.8 35.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.336 ug/l

RT: 2.39 min Scan# 202

Delta R.T. 0.01 min

Lab File: VX005190.D

Acq: 10 Oct 2018 06:05

Instrument :

MSVOA_X

ClientSampleId :

SA-TW513-4044

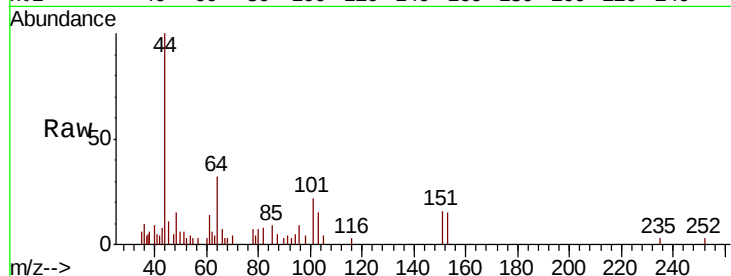
Tot Ion:101 Resp: 713

Ion Ratio Lower Upper

101 100

85 55.3 35.9 53.9#

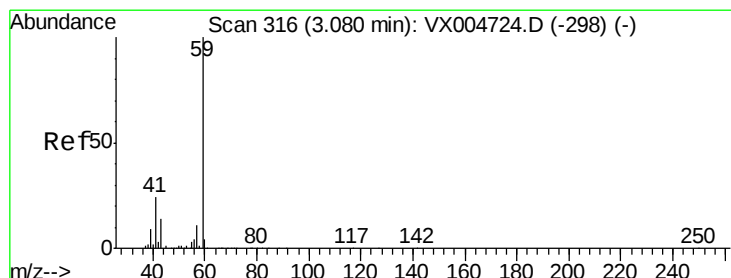
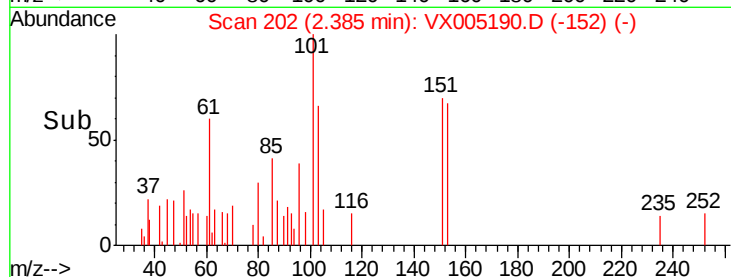
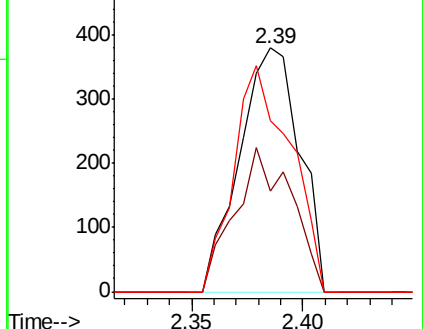
151 87.4 66.6 100.0



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: 4.561 ug/l

RT: 3.01 min Scan# 305

Delta R.T. -0.07 min

Lab File: VX005190.D

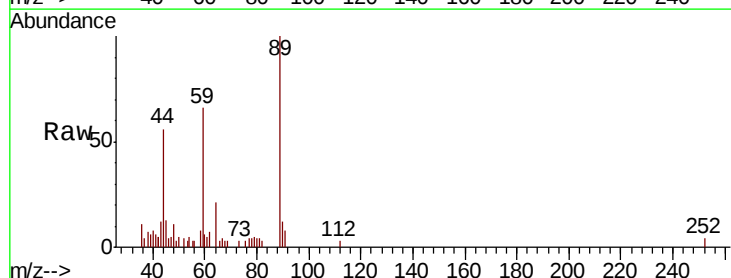
Acq: 10 Oct 2018 06:05

Tgt Ion: 59 Resp: 3538

Ion Ratio Lower Upper

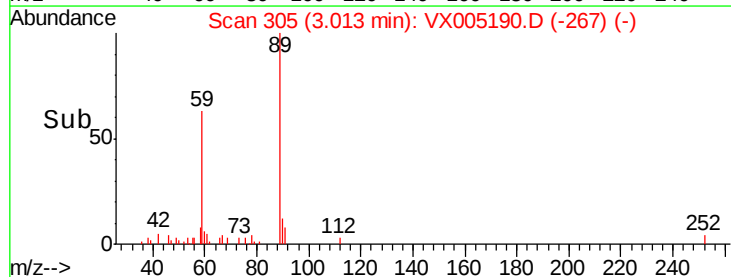
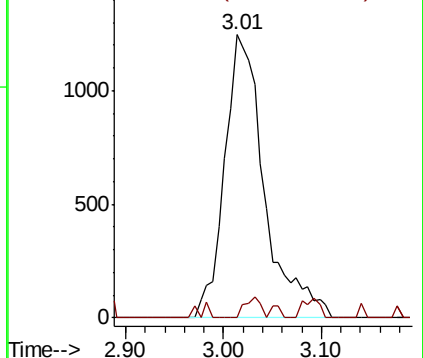
59 100

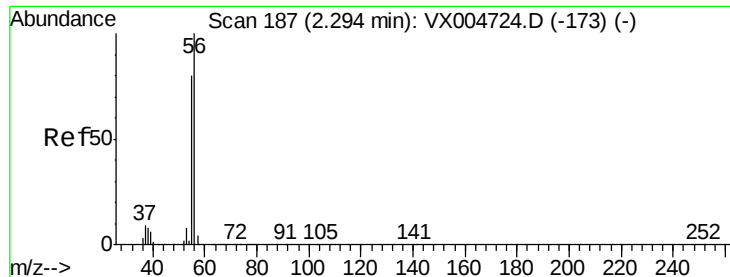
57 2.9 8.6 12.8#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.245 ug/l

RT: 2.29 min Scan# 186

Delta R.T. -0.01 min

Lab File: VX005190.D

Acq: 10 Oct 2018 06:05

Instrument :

MSVOA_X

ClientSampleId :

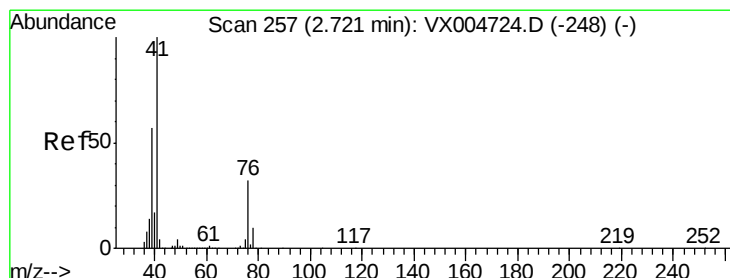
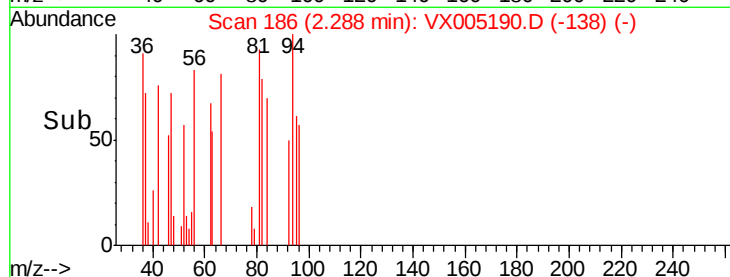
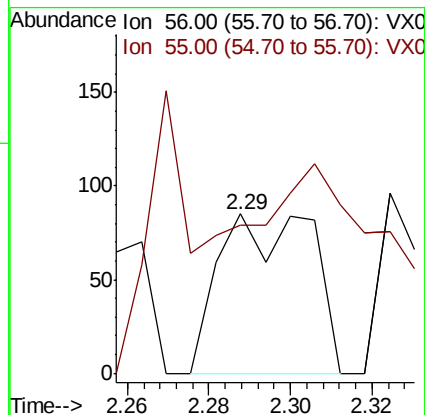
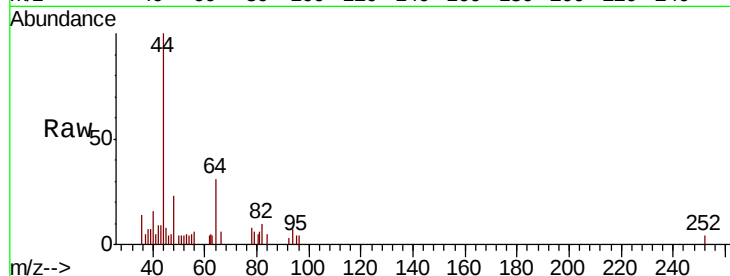
SA-TW513-4044

Tot Ion: 56 Resp: 135

Ion Ratio Lower Upper

56 100

55 137.0 63.4 95.2#



#14

Allyl chloride

Concen: 1.227 ug/l

RT: 2.62 min Scan# 240

Delta R.T. -0.10 min

Lab File: VX005190.D

Acq: 10 Oct 2018 06:05

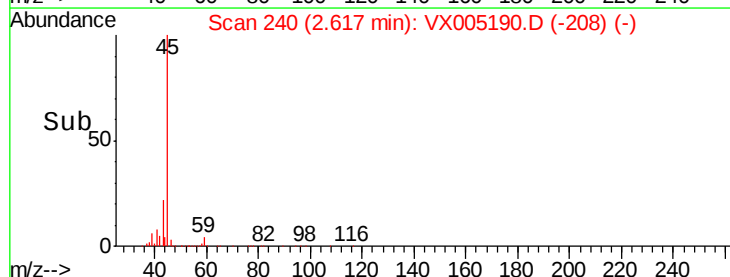
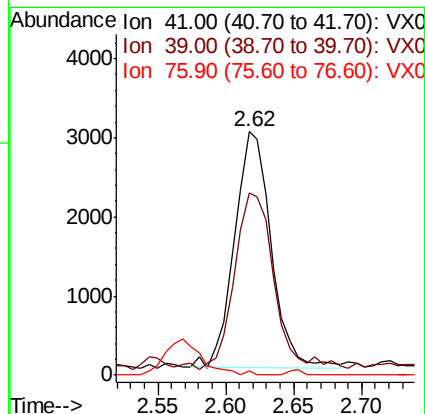
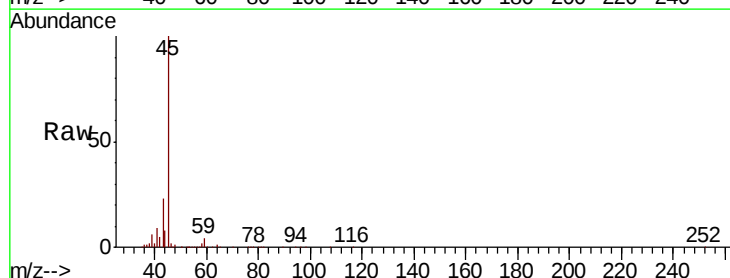
Tgt Ion: 41 Resp: 5633

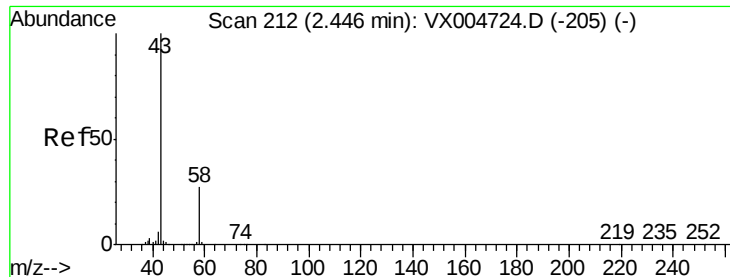
Ion Ratio Lower Upper

41 100

39 77.4 44.1 66.1#

76 0.0 25.0 37.4#





#16

Acetone

Concen: 2.026 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX005190.D

Acq: 10 Oct 2018 06:05

Instrument :

MSVOA_X

ClientSampleId :

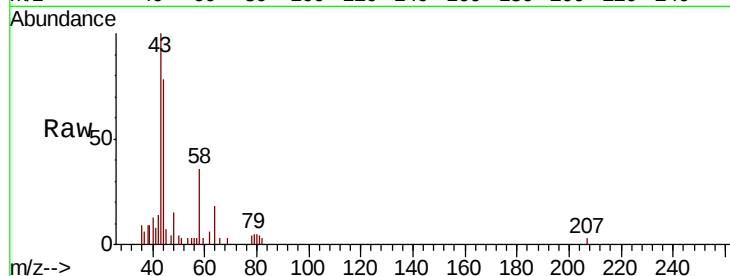
SA-TW513-4044

Tot Ion: 43 Resp: 3282

Ion Ratio Lower Upper

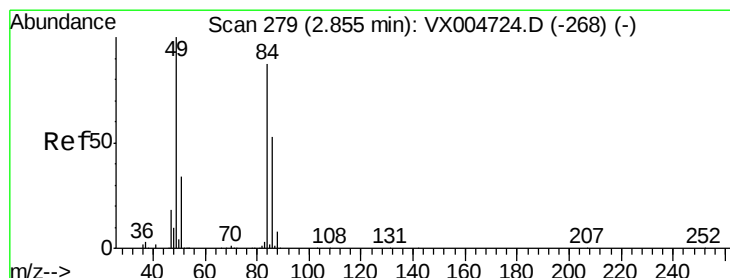
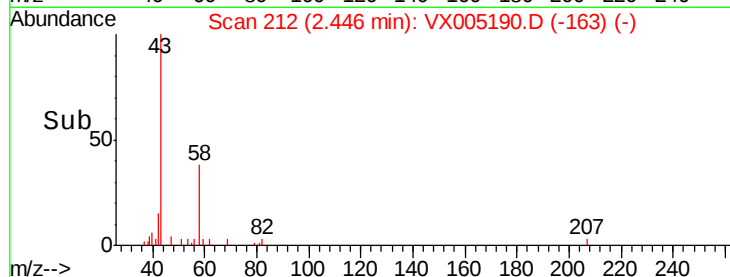
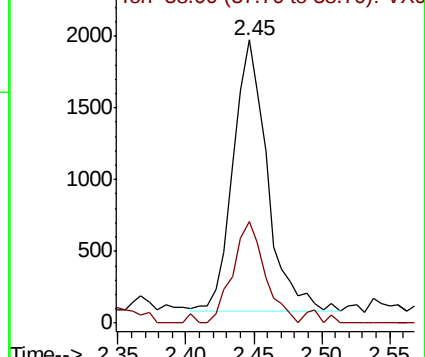
43 100

58 37.5 21.8 32.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#20

Methylene Chloride

Concen: Below Cal

RT: 2.85 min Scan# 278

Delta R.T. -0.01 min

Lab File: VX005190.D

Acq: 10 Oct 2018 06:05

Tgt Ion: 84 Resp: 756

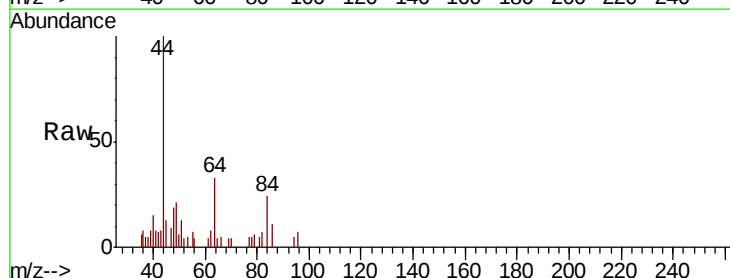
Ion Ratio Lower Upper

84 100

49 87.1 92.3 138.5#

51 32.0 31.8 47.6

86 45.8 48.5 72.7#

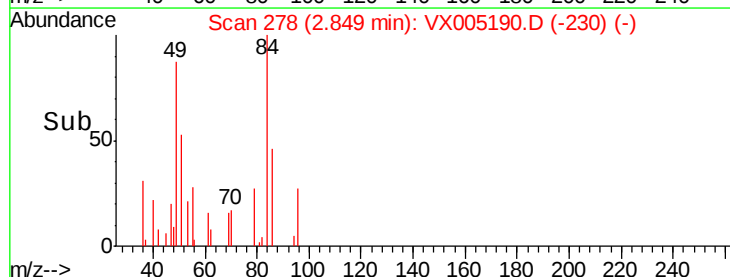
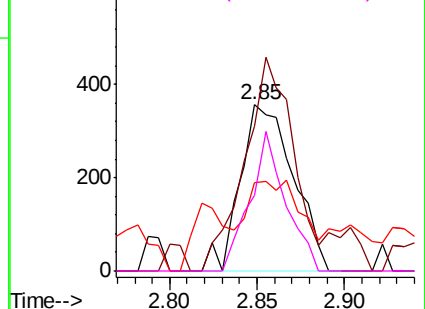


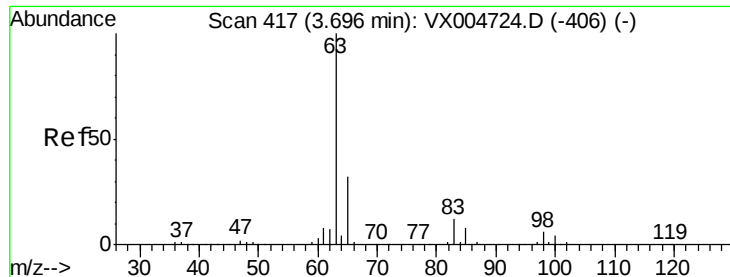
Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0





#24

1,1-Dichloroethane

Concen: 1.056 ug/l

RT: 3.70 min Scan# 417

Delta R.T. -0.00 min

Lab File: VX005190.D

Acq: 10 Oct 2018 06:05

Instrument :

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SA-TW513-4044

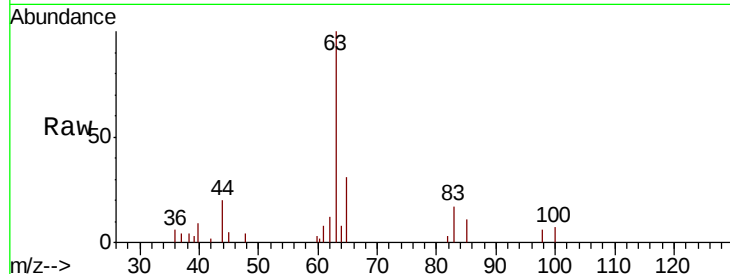
Tot Ion: 63 Resp: 4872

Ion Ratio Lower Upper

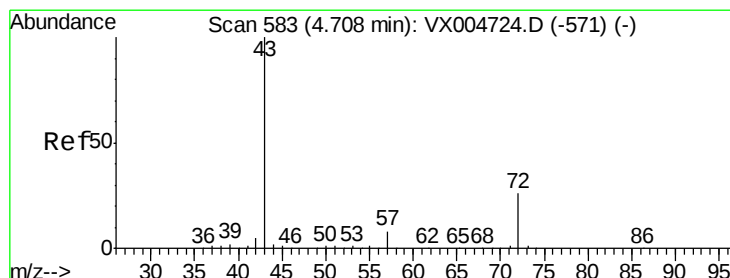
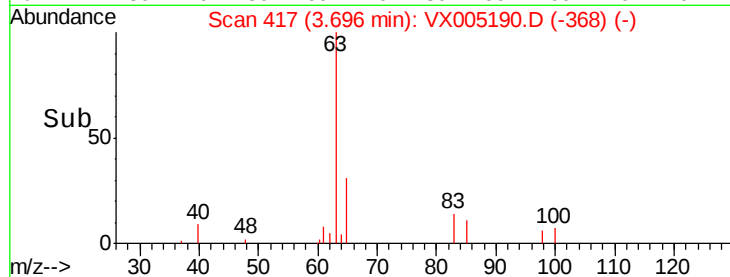
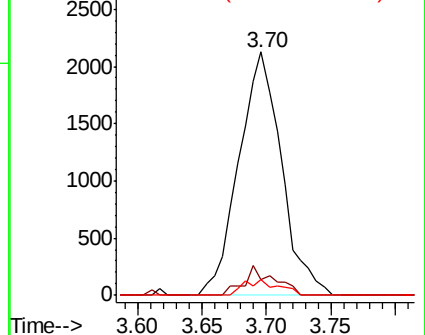
63 100

98 6.4 3.0 9.2

100 6.7 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: 0.213 ug/l

RT: 4.72 min Scan# 585

Delta R.T. 0.01 min

Lab File: VX005190.D

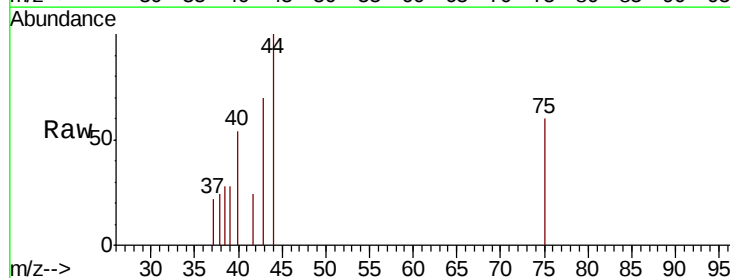
Acq: 10 Oct 2018 06:05

Tgt Ion: 43 Resp: 509

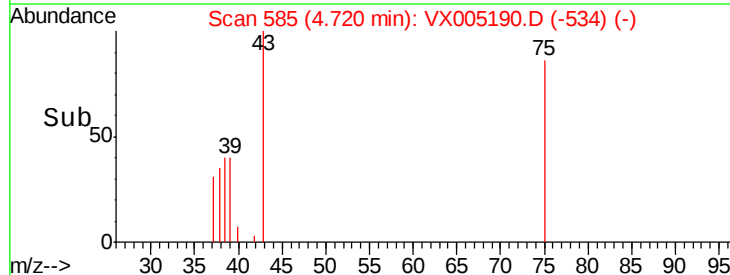
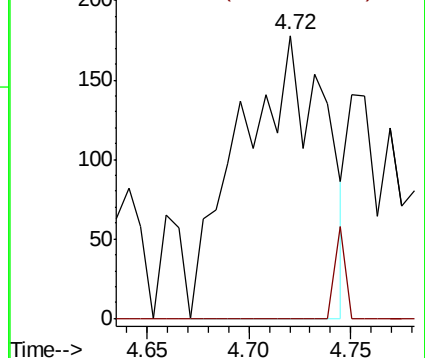
Ion Ratio Lower Upper

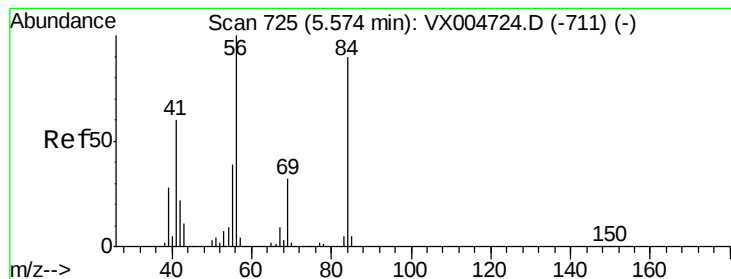
43 100

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: 1.010 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.09 min

Lab File: VX005190.D

Acq: 10 Oct 2018 06:05

Instrument :

MSVOA_X

ClientSampleId :

SA-TW513-4044

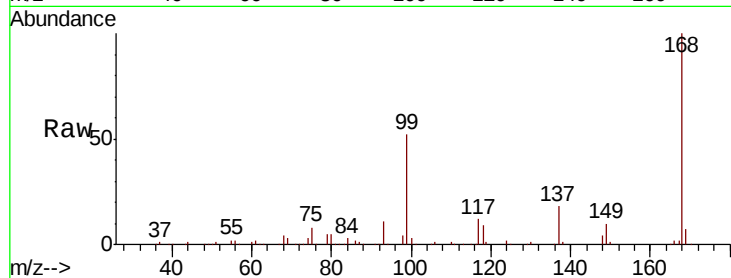
Tot Ion: 56 Resp: 3567

Ion Ratio Lower Upper

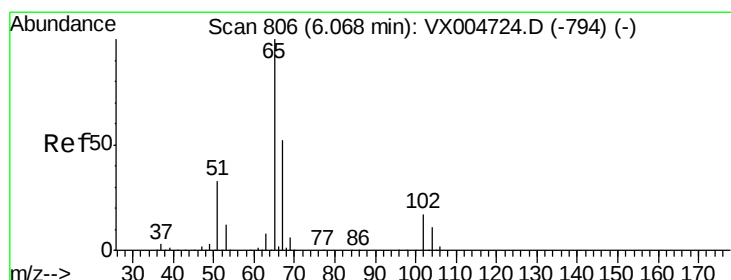
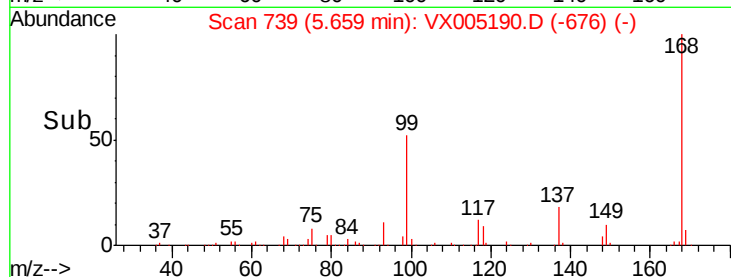
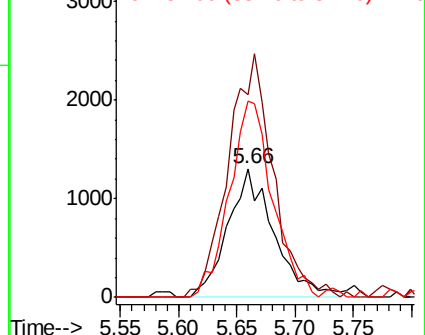
56 100

69 157.7 25.9 38.9#

84 152.3 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: 52.387 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.01 min

Lab File: VX005190.D

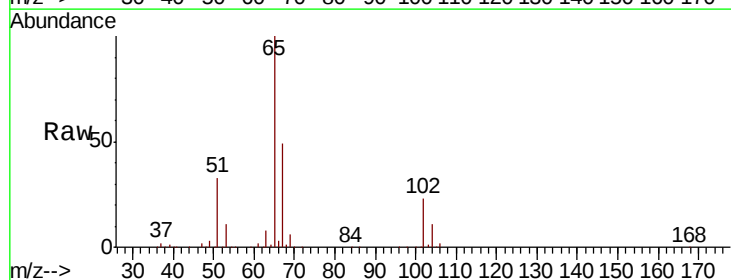
Acq: 10 Oct 2018 06:05

Tgt Ion: 65 Resp: 145350

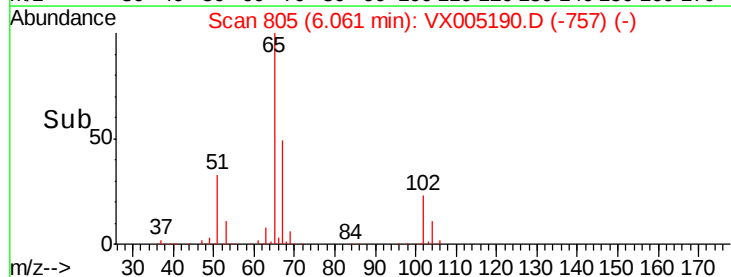
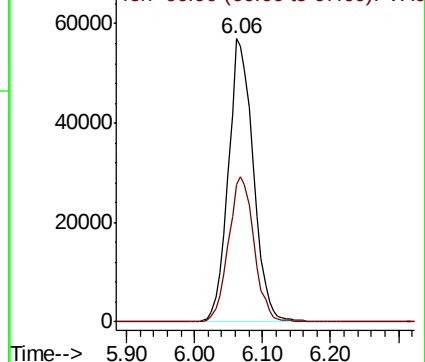
Ion Ratio Lower Upper

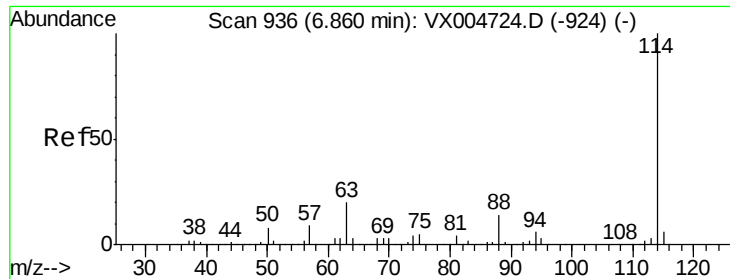
65 100

67 52.5 0.0 107.4



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

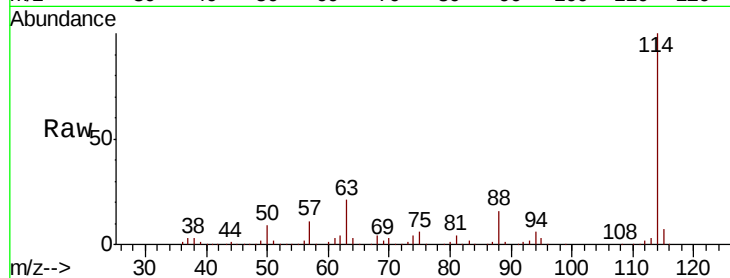




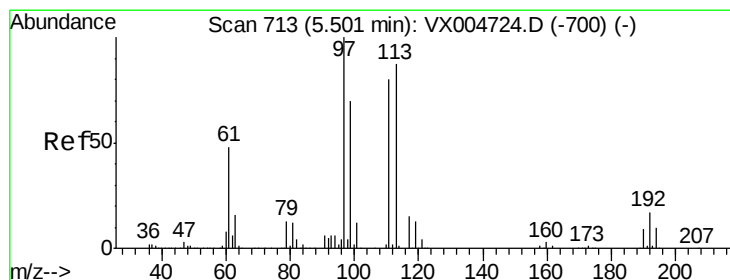
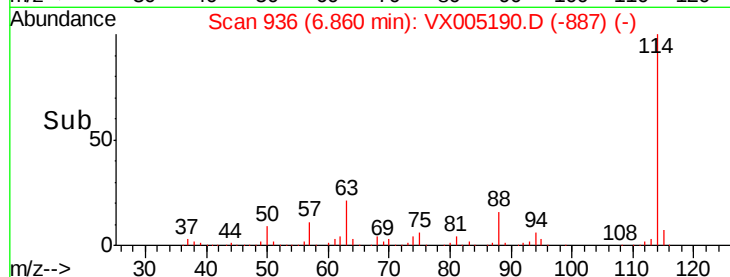
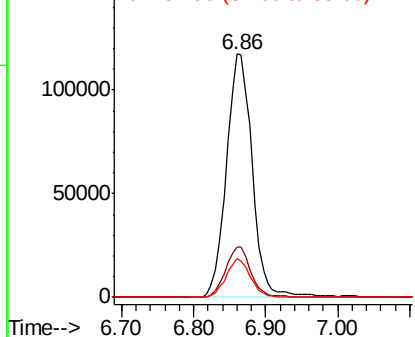
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX005190.D
 Acq: 10 Oct 2018 06:05

Instrument :
 MSVOA_X
 ClientSampleId :
 SA-TW513-4044

Tot Ion	Ratio	Lower	Upper
114	100		
63	20.6	0.0	39.8
88	15.9	0.0	27.0

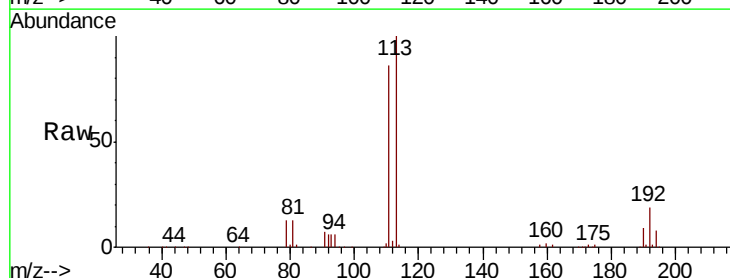


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

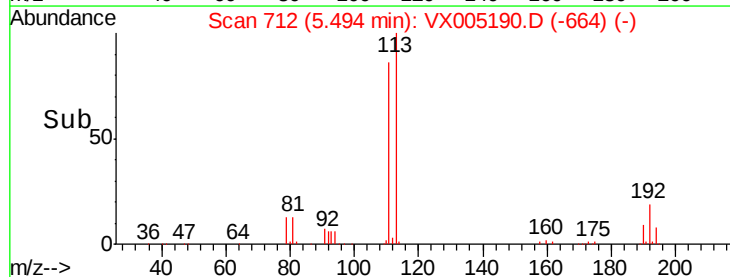
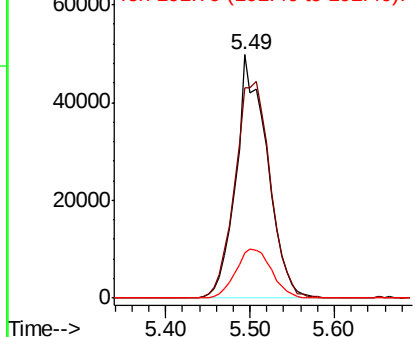


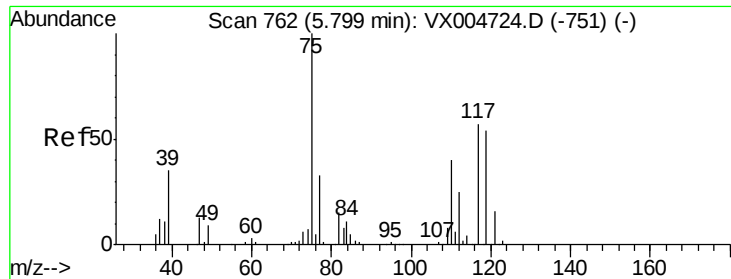
#35
 Dibromofluoromethane
 Concen: 50.416 ug/l
 RT: 5.49 min Scan# 712
 Delta R.T. -0.01 min
 Lab File: VX005190.D
 Acq: 10 Oct 2018 06:05

Tgt Ion	Ratio	Lower	Upper
113	100		
111	100.9	77.0	115.4
192	23.1	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: 3.928 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX005190.D

Acq: 10 Oct 2018 06:05

Instrument :

MSVOA_X

ClientSampleId :

SA-TW513-4044

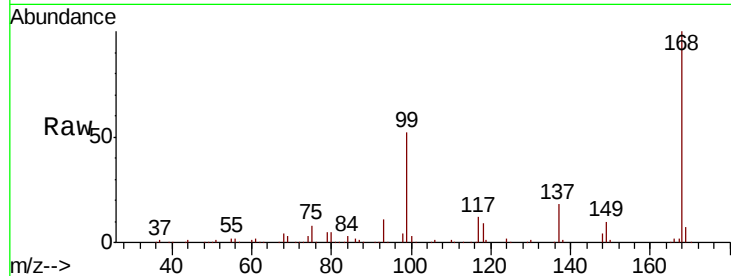
Tot Ion: 75 Resp: 13293

Ion Ratio Lower Upper

75 100

110 9.2 20.0 59.9#

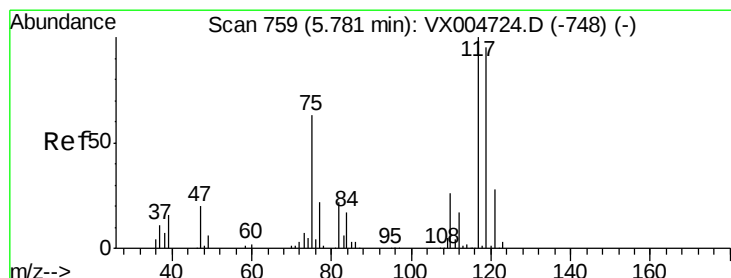
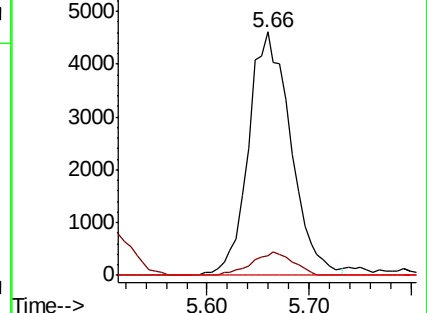
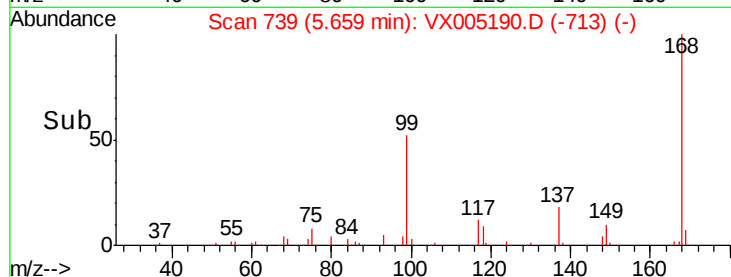
77 0.0 27.1 40.7#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0



#38

Carbon Tetrachloride

Concen: 4.591 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX005190.D

Acq: 10 Oct 2018 06:05

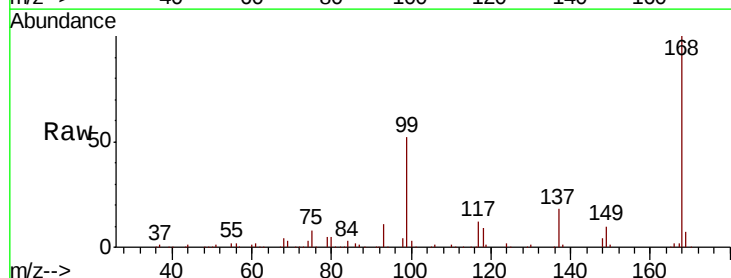
Tgt Ion: 117 Resp: 16330

Ion Ratio Lower Upper

117 100

119 5.5 75.2 112.8#

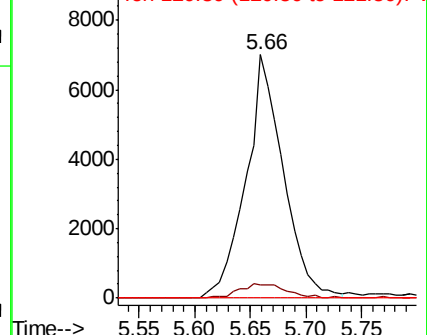
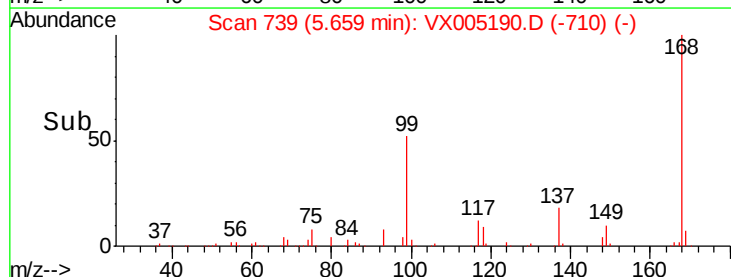
121 0.0 22.5 33.7#

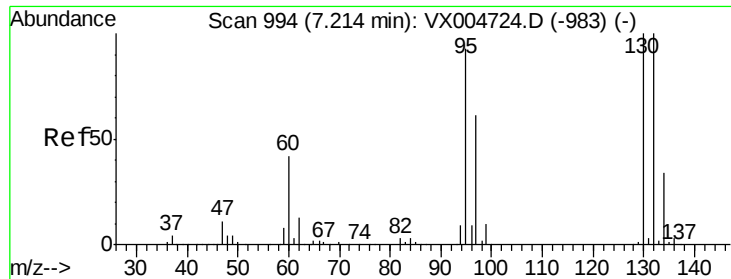


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

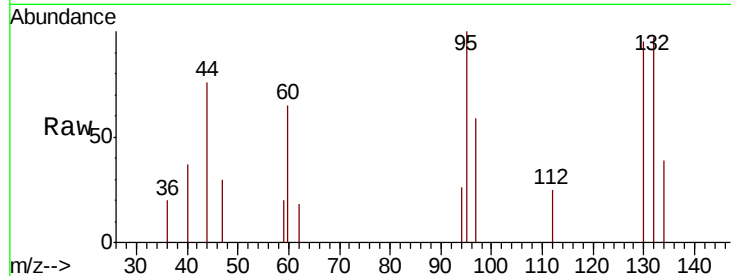




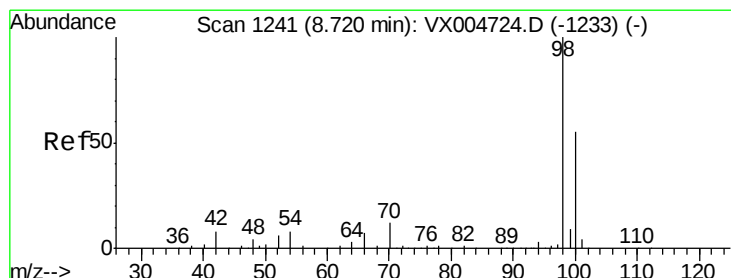
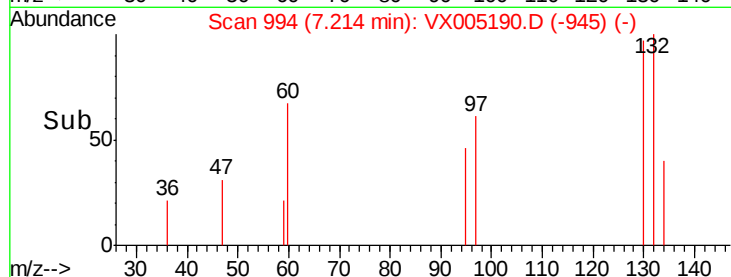
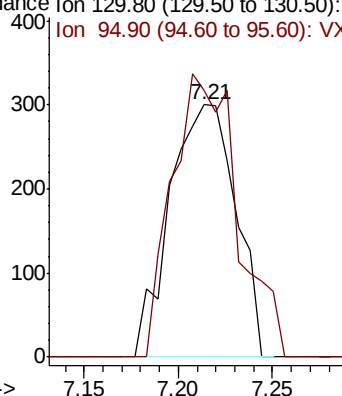
#44
 Trichloroethene
 Concen: 0.280 ug/l
 RT: 7.21 min Scan# 994
 Delta R.T. -0.00 min
 Lab File: VX005190.D
 Acq: 10 Oct 2018 06:05

Instrument :
 MSVOA_X
 ClientSampleId :
 SA-TW513-4044

Tot Ion:130 Resp: 728
 Ion Ratio Lower Upper
 130 100
 95 105.7 0.0 186.8

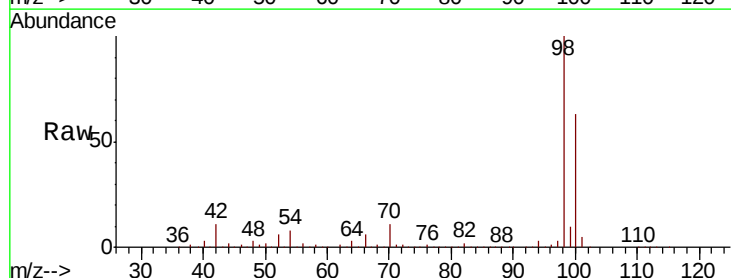


Abundance Ion 129.80 (129.50 to 130.50): V
 Ion 94.90 (94.60 to 95.60): VX0

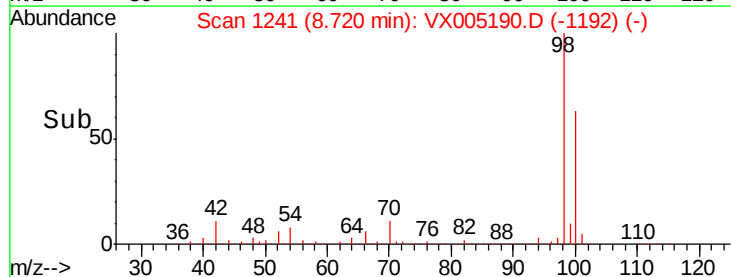
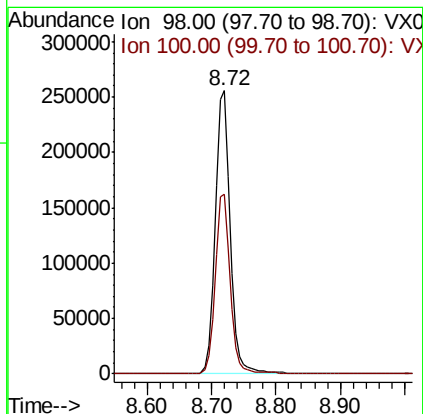


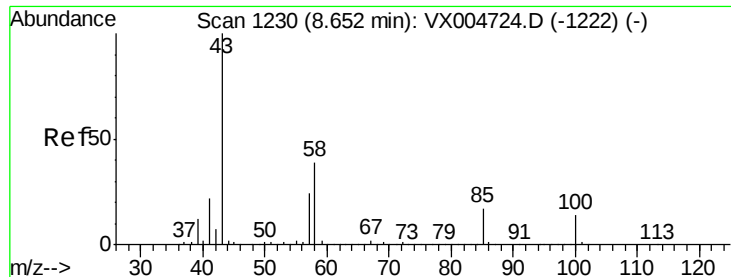
#50
 Toluene-d8
 Concen: 50.958 ug/l
 RT: 8.72 min Scan# 1241
 Delta R.T. -0.00 min
 Lab File: VX005190.D
 Acq: 10 Oct 2018 06:05

Tgt Ion: 98 Resp: 420158
 Ion Ratio Lower Upper
 98 100
 100 63.6 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VX0
 Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 0.486 ug/l

RT: 8.72 min Scan# 1241

Delta R.T. 0.07 min

Lab File: VX005190.D

Acq: 10 Oct 2018 06:05

Instrument :

MSVOA_X

ClientSampleId :

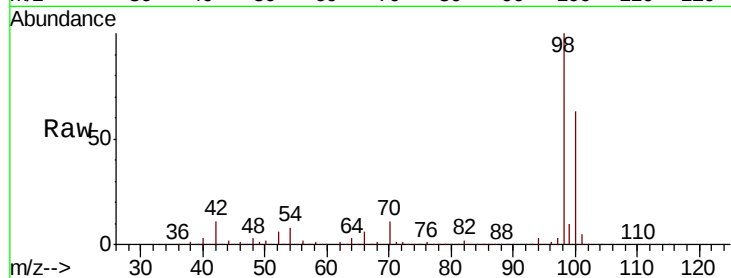
SA-TW513-4044

Tot Ion: 43 Resp: 1985

Ion Ratio Lower Upper

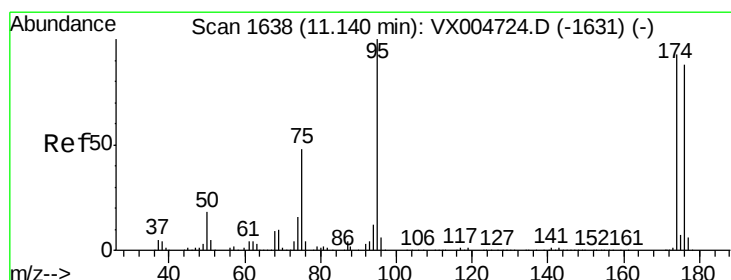
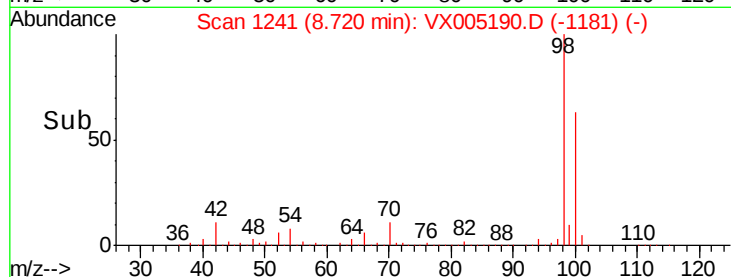
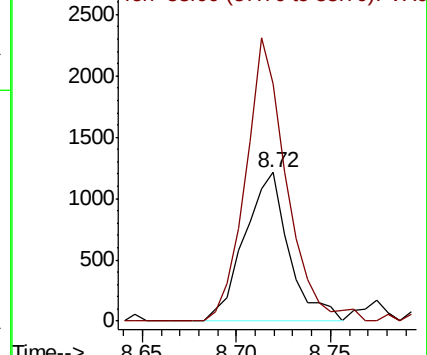
43 100

58 175.1 30.5 45.7#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#62

4-Bromofluorobenzene

Concen: 51.258 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.00 min

Lab File: VX005190.D

Acq: 10 Oct 2018 06:05

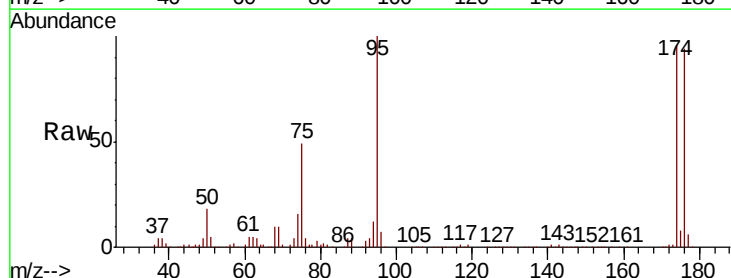
Tgt Ion: 95 Resp: 152255

Ion Ratio Lower Upper

95 100

174 94.3 0.0 185.0

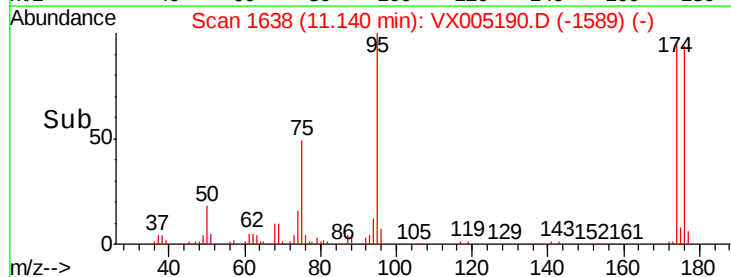
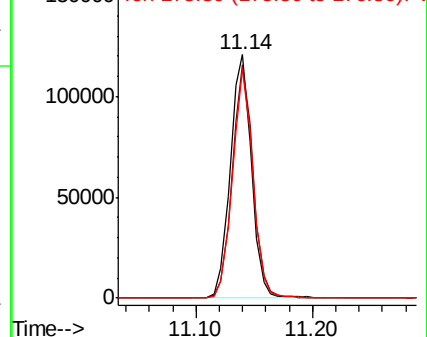
176 90.6 0.0 180.2

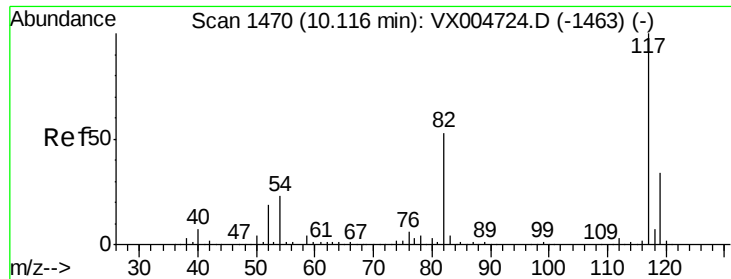


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

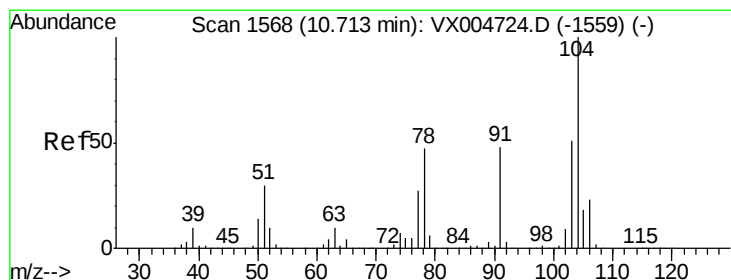
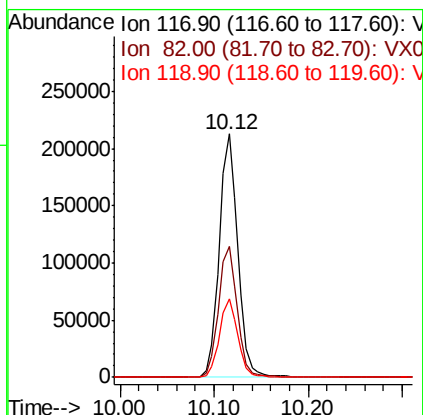
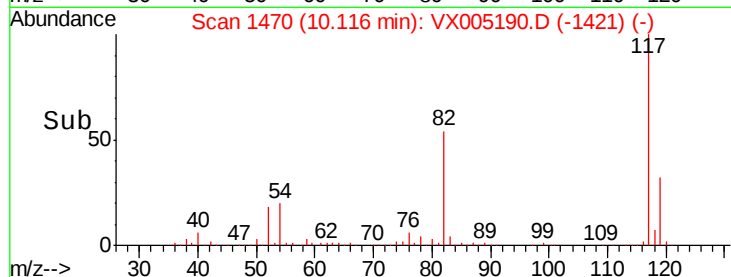
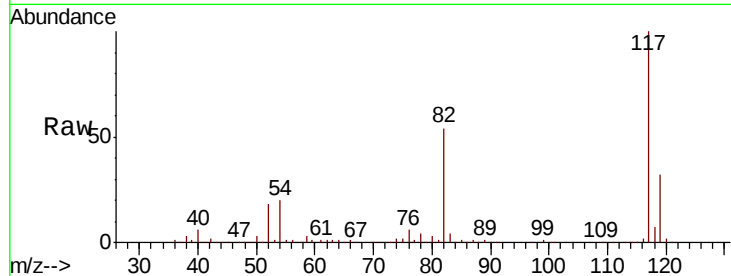




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX005190.D
Acq: 10 Oct 2018 06:05

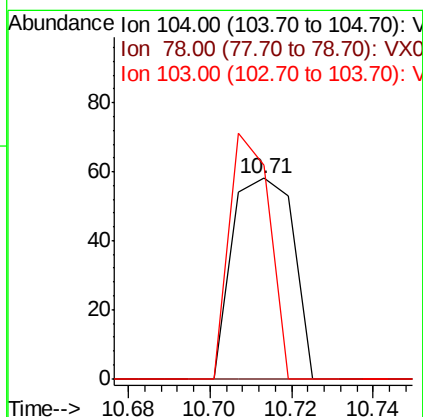
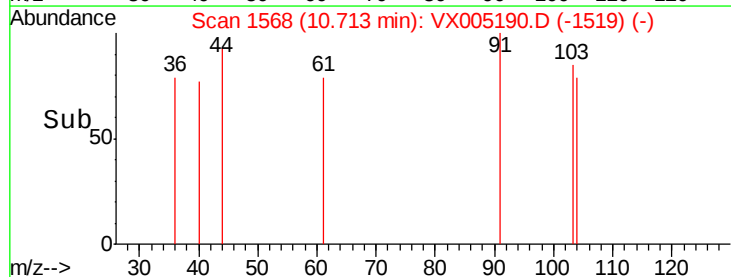
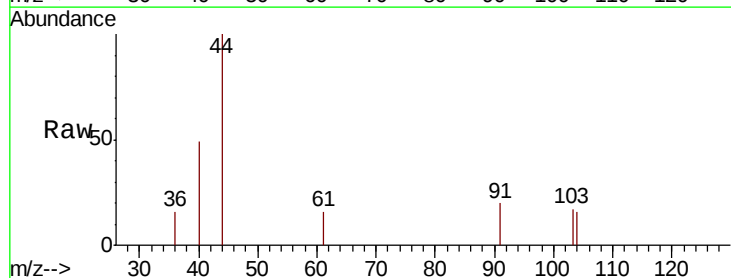
Instrument :
MSVOA_X
ClientSampleId :
SA-TW513-4044

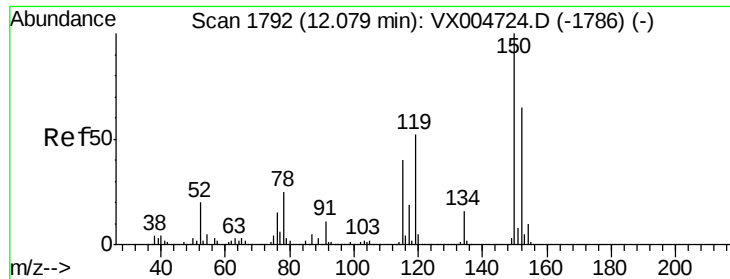
Tot Ion:117 Resp: 290578
Ion Ratio Lower Upper
117 100
82 54.0 42.2 63.4
119 32.0 27.4 41.0



#70
Styrene
Concen: 2.148 ug/l
RT: 10.71 min Scan# 1568
Delta R.T. -0.00 min
Lab File: VX005190.D
Acq: 10 Oct 2018 06:05

Tgt Ion:104 Resp: 60
Ion Ratio Lower Upper
104 100
78 0.0 40.0 60.0#
103 81.7 44.3 66.5#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX005190.D

Acq: 10 Oct 2018 06:05

Instrument :

MSVOA_X

ClientSampleId :

SA-TW513-4044

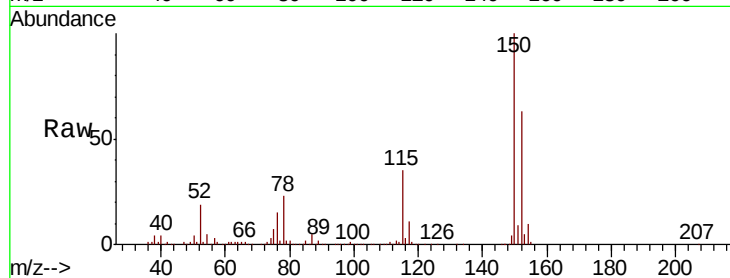
Tot Ion:152 Resp: 162518

Ion Ratio Lower Upper

152 100

115 55.2 40.2 120.6

150 157.6 0.0 351.0

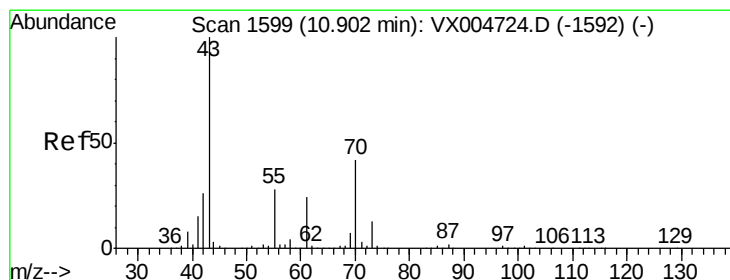
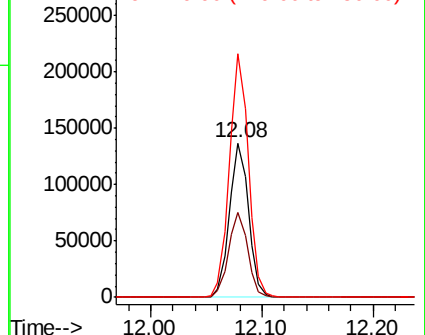
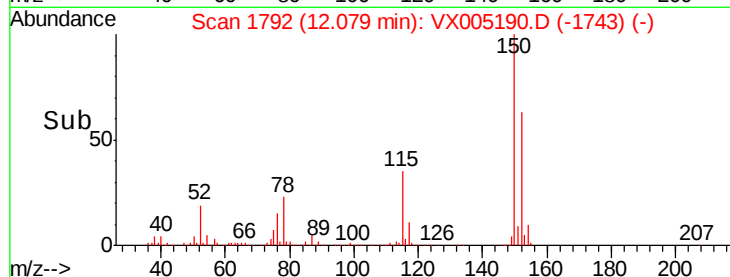


Abundance

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: 1.781 ug/l

RT: 10.91 min Scan# 1600

Delta R.T. 0.01 min

Lab File: VX005190.D

Acq: 10 Oct 2018 06:05

Tgt Ion: 43 Resp: 192

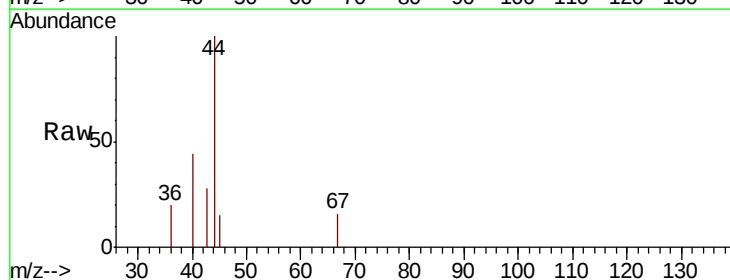
Ion Ratio Lower Upper

43 100

70 0.0 32.6 48.8#

55 0.0 21.6 32.4#

61 0.0 19.1 28.7#



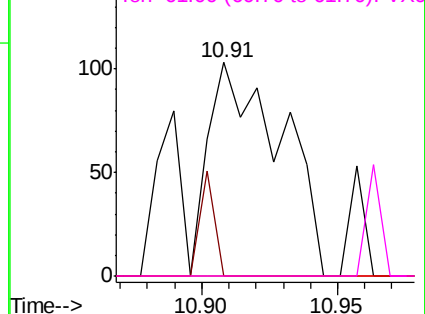
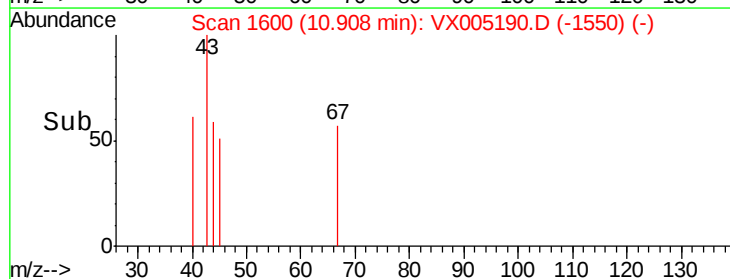
Abundance

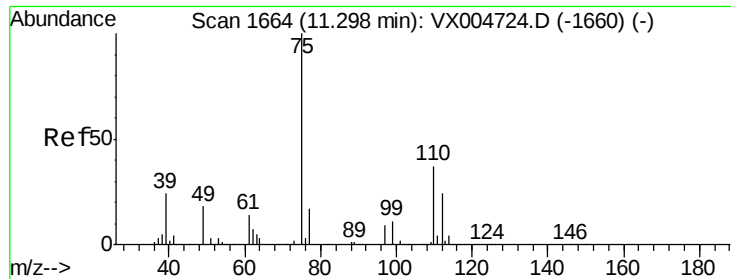
Ion 43.00 (42.70 to 43.70): VX0

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

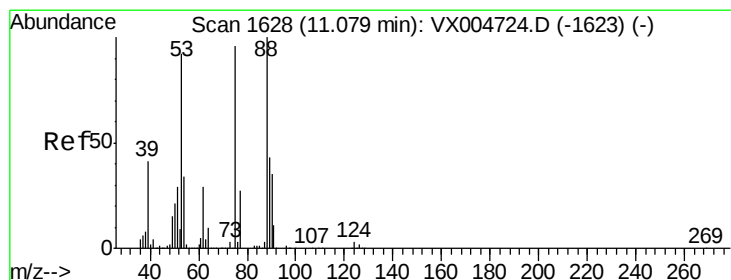
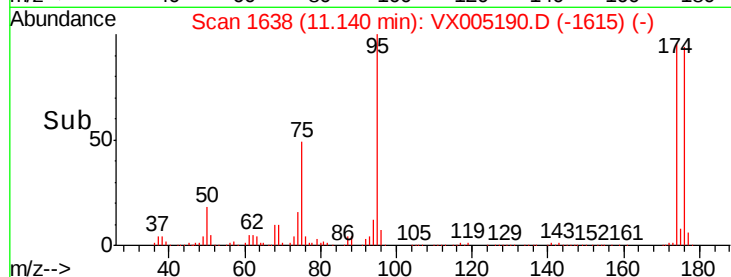
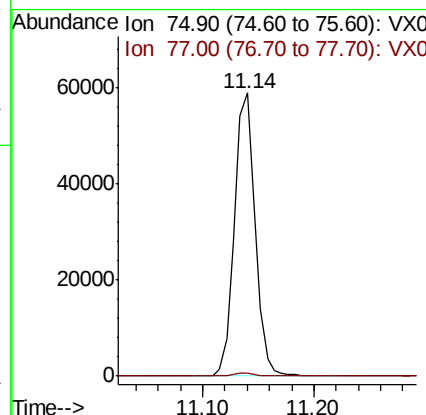
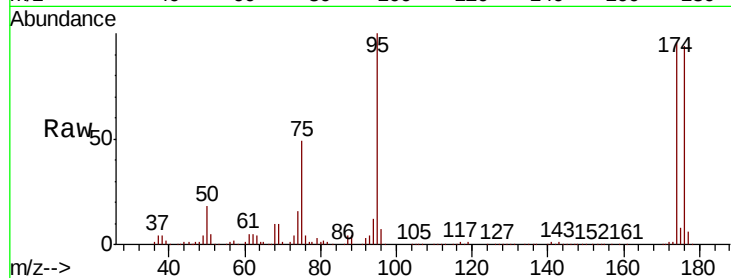




#76
 1,2,3-Trichloropropane
 Concen: 20.828 ug/l
 RT: 11.14 min Scan# 1638
 Delta R.T. -0.16 min
 Lab File: VX005190.D
 Acq: 10 Oct 2018 06:05

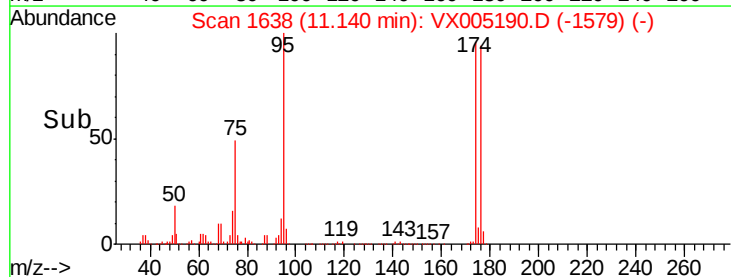
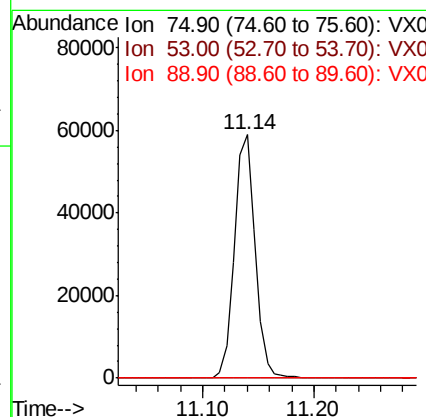
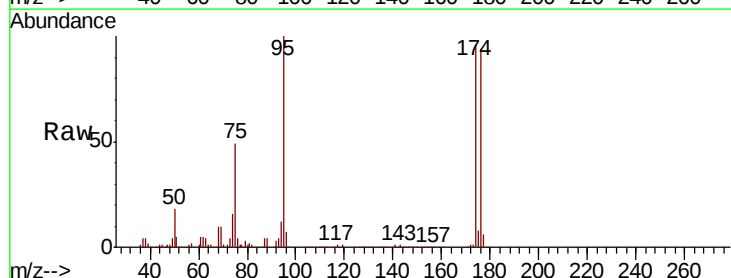
Instrument :
 MSVOA_X
 ClientSampleId :
 SA-TW513-4044

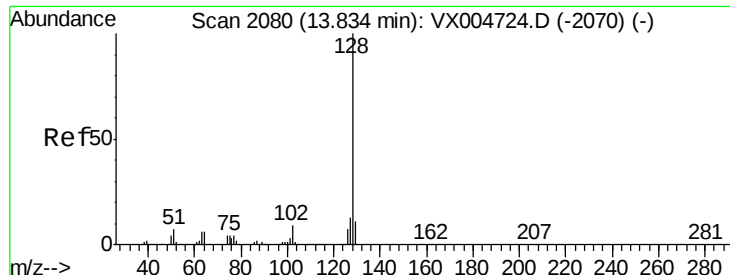
Tot Ion: 75 Resp: 75869
 Ion Ratio Lower Upper
 75 100
 77 1.3 21.4 64.3#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 56.536 ug/l
 RT: 11.14 min Scan# 1638
 Delta R.T. 0.06 min
 Lab File: VX005190.D
 Acq: 10 Oct 2018 06:05

Tgt Ion: 75 Resp: 75869
 Ion Ratio Lower Upper
 75 100
 53 0.3 80.2 120.4#
 89 0.0 37.1 55.7#





#95

Naphthalene

Concen: 0.755 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. -0.00 min

Lab File: VX005190.D

Acq: 10 Oct 2018 06:05

Instrument :

MSVOA_X

ClientSampleId :

SA-TW513-4044

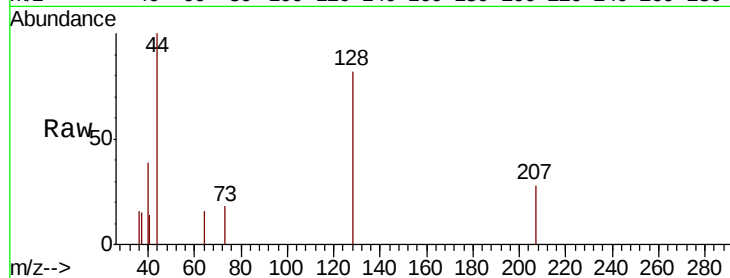
Tot Ion:128 Resp: 483

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

129 0.0 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

