

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062718\
 Data File : VX002966.D
 Acq On : 28 Jun 2018 05:18
 Operator : JC/MD
 Sample : J3718-07
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 28 06:52:25 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X062518W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jun 25 14:38:05 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	274097	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	385024	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	361741	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	211657	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	187130	49.39	ug/l	0.00
Spiked Amount			Recovery	=	98.78%	
35) Dibromofluoromethane	5.51	113	149912	49.17	ug/l	0.00
Spiked Amount			Recovery	=	98.34%	
50) Toluene-d8	8.72	98	540055	48.50	ug/l	0.00
Spiked Amount			Recovery	=	97.00%	
62) 4-Bromofluorobenzene	11.14	95	199263	46.40	ug/l	0.00
Spiked Amount			Recovery	=	92.80%	

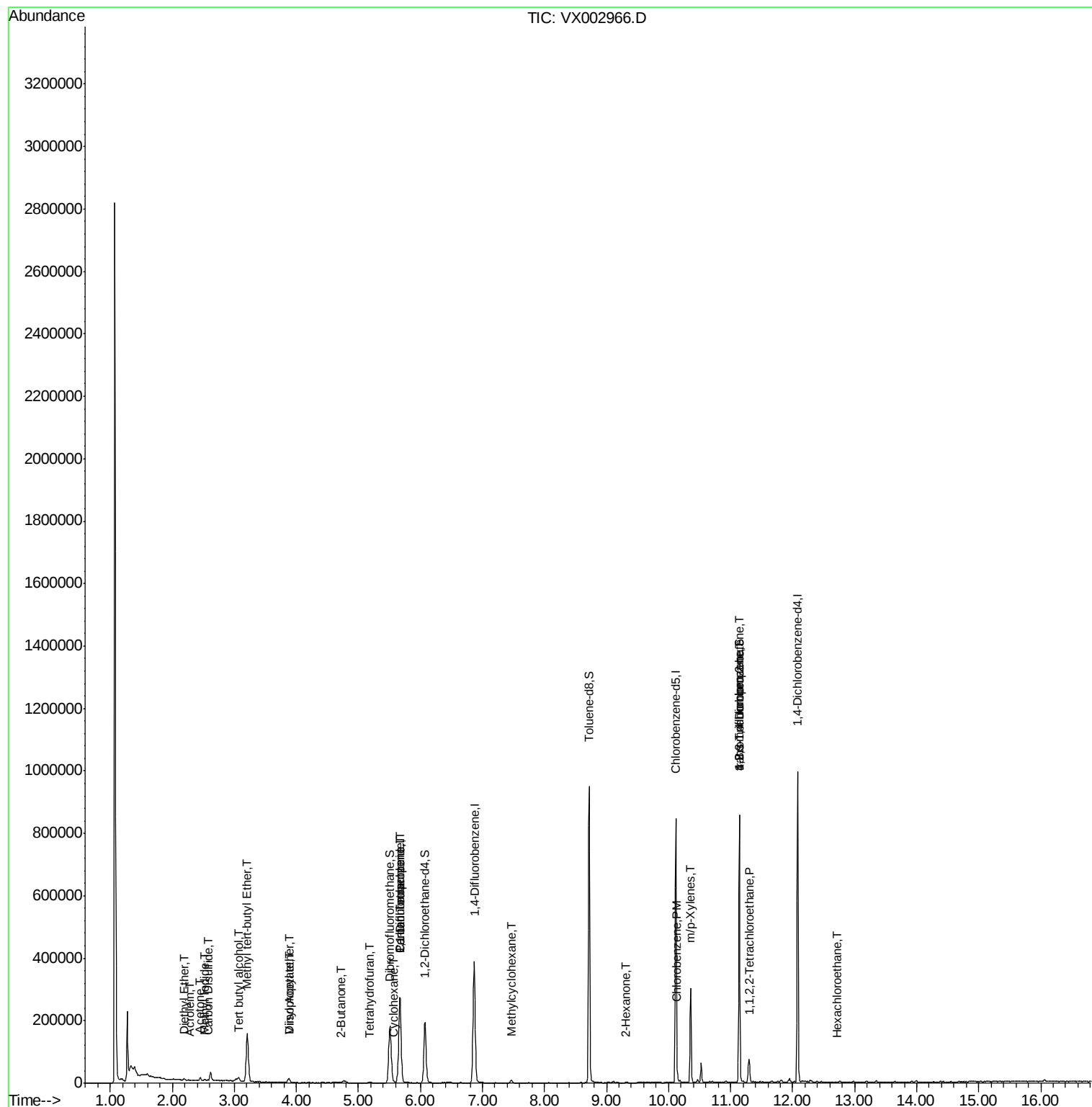
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	78	Below Cal	#	43
5) Bromomethane	1.65	94	1323	Below Cal		91
8) Diethyl Ether	2.19	74	2139	1.13	ug/l	81
10) Methyl Iodide	2.52	142	3220	7.14	ug/l	# 96
11) Tert butyl alcohol	3.07	59	17816	23.61	ug/l	100
13) Acrolein	2.29	56	324	4.99	ug/l	# 14
16) Acetone	2.45	43	9498	6.05	ug/l	93
17) Carbon Disulfide	2.57	76	4058	0.56	ug/l	# 94
19) Methyl tert-butyl Ether	3.21	73	173179	17.82	ug/l	99
22) Diisopropyl ether	3.87	45	14293	1.40	ug/l	# 91
23) Vinyl Acetate	3.88	43	8073	0.94	ug/l	# 75
25) 2-Butanone	4.71	43	2046	0.88	ug/l	100
29) Tetrahydrofuran	5.18	42	1560	1.04	ug/l	# 87
31) Cyclohexane	5.57	56	1590	0.33	ug/l	# 74
36) 1,1-Dichloropropene	5.67	75	18762	4.44	ug/l	# 51
38) Carbon Tetrachloride	5.67	117	25418	5.49	ug/l	# 15
39) Methylcyclohexane	7.47	83	3070	0.62	ug/l	# 88
59) 2-Hexanone	9.31	43	1739	0.48	ug/l	82
65) Chlorobenzene	10.14	112	7376	0.80	ug/l	100
68) m/p-Xylenes	10.36	106	1817	0.31	ug/l	93
75) 1,1,2,2-Tetrachloroethane	11.29	83	999	0.23	ug/l	# 1
76) 1,2,3-Trichloropropane	11.14	75	104414	27.23	ug/l	# 33
81) trans-1,4-Dichloro-2-buten	11.14	75	104414	77.07	ug/l	# 7
90) Hexachloroethane	12.71	117	436	0.23	ug/l	# 1

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

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.01 min

Lab File: VX002966.D

Acq: 28 Jun 2018 05:18

Instrument :

MSVOA_X

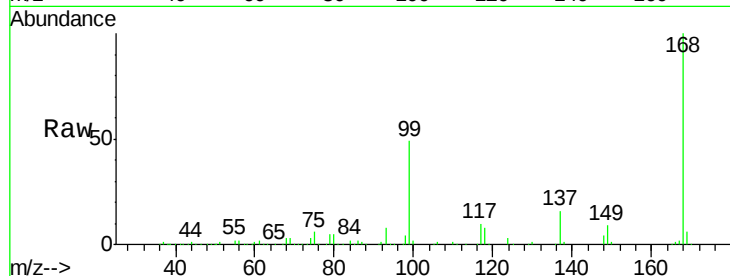
ClientSampled :

Tot Ion:168 Resp: 274097

Ion Ratio Lower Upper

168 100

99 49.3 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

100000

80000

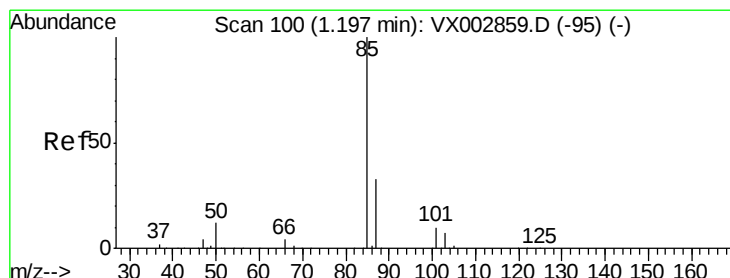
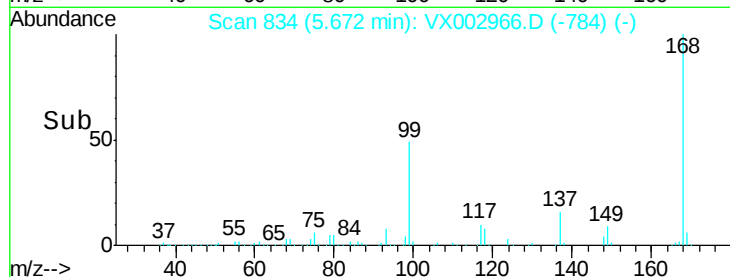
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.20 min Scan# 100

Delta R.T. 0.00 min

Lab File: VX002966.D

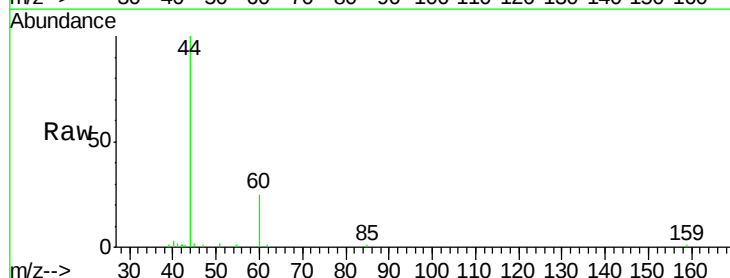
Acq: 28 Jun 2018 05:18

Tgt Ion: 85 Resp: 78

Ion Ratio Lower Upper

85 100

87 0.0 16.0 47.9#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

80

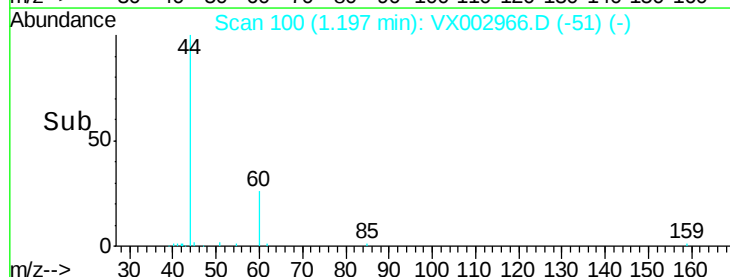
60

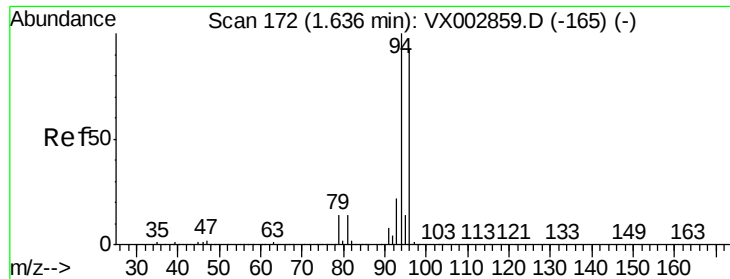
40

20

0

Time--> 1.18 1.20 1.22





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX002966.D

Acq: 28 Jun 2018 05:18

Instrument :

MSVOA_X

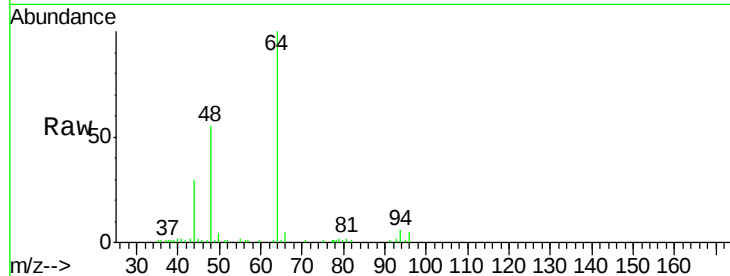
ClientSampleId :

Tot Ion: 94 Resp: 1323

Ion Ratio Lower Upper

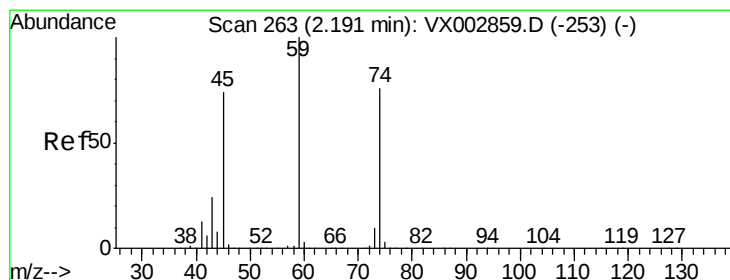
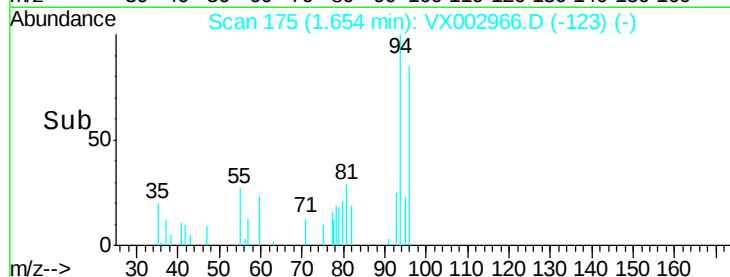
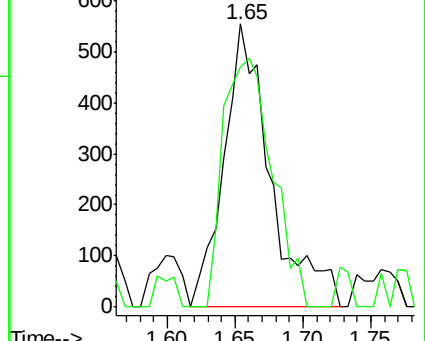
94 100

96 84.8 74.9 112.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#8

Diethyl Ether

Concen: 1.13 ug/l

RT: 2.19 min Scan# 263

Delta R.T. -0.00 min

Lab File: VX002966.D

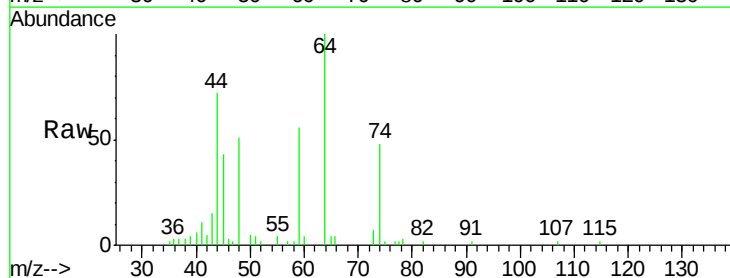
Acq: 28 Jun 2018 05:18

Tgt Ion: 74 Resp: 2139

Ion Ratio Lower Upper

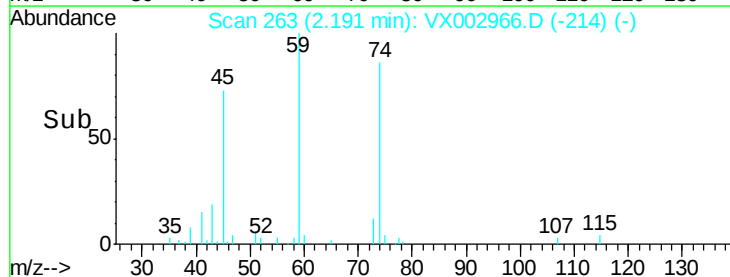
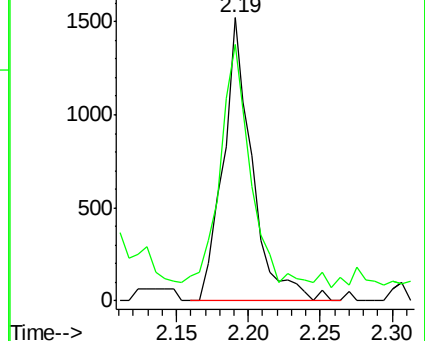
74 100

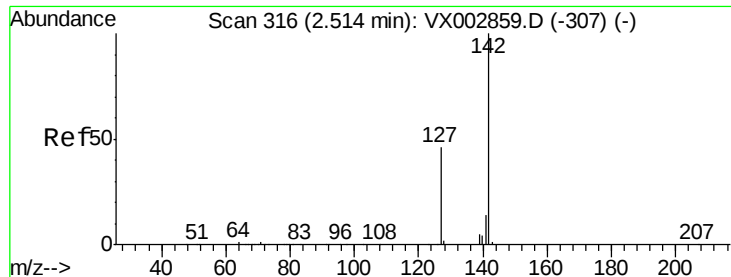
45 86.2 53.1 159.4



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

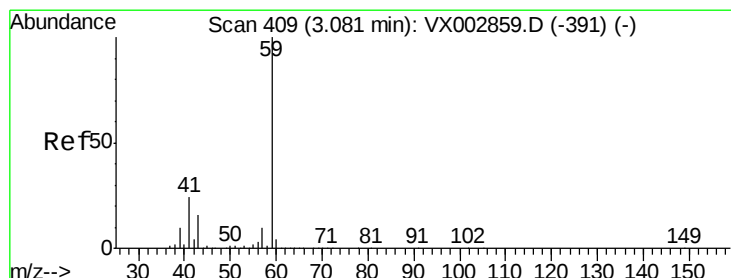
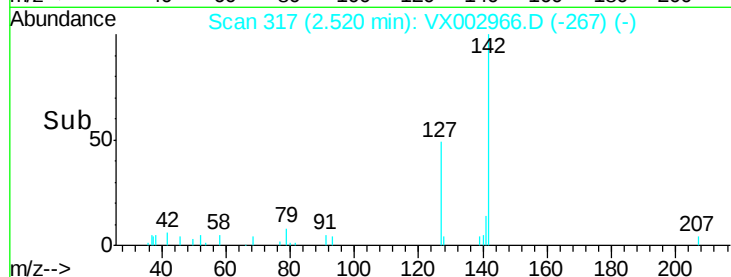
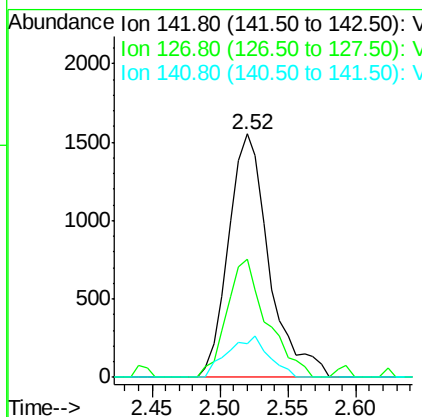
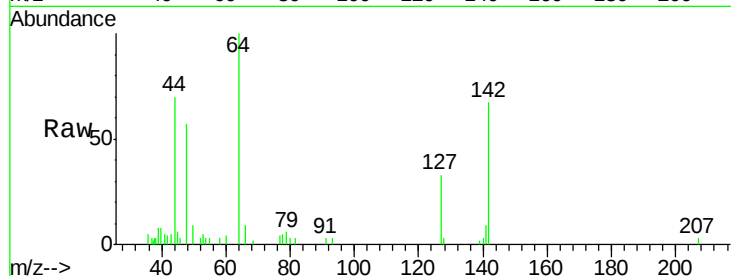




#10
Methvl Iodide
Concen: 7.14 ug/l
RT: 2.52 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX002966.D
Acq: 28 Jun 2018 05:18

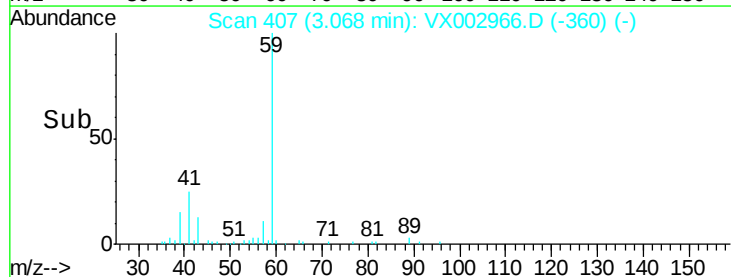
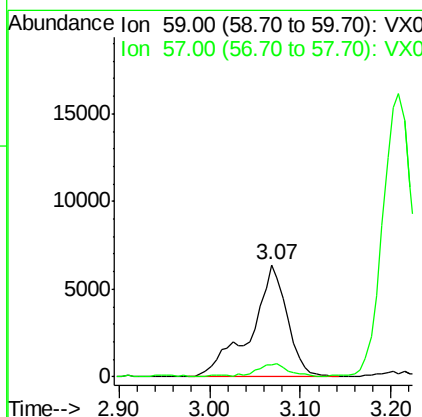
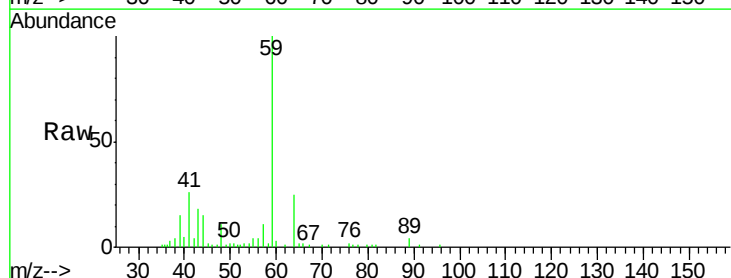
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:142 Resp: 3220
Ion Ratio Lower Upper
142 100
127 48.0 36.6 55.0
141 17.2 11.3 16.9#



#11
Tert butyl alcohol
Concen: 23.61 ug/l
RT: 3.07 min Scan# 407
Delta R.T. -0.01 min
Lab File: VX002966.D
Acq: 28 Jun 2018 05:18

Tgt Ion: 59 Resp: 17816
Ion Ratio Lower Upper
59 100
57 10.1 8.2 12.2





#13

Acrolein

Concen: 4.99 ug/l

RT: 2.29 min Scan# 280

Delta R.T. 0.00 min

Lab File: VX002966.D

Acq: 28 Jun 2018 05:18

Instrument :

MSVOA_X

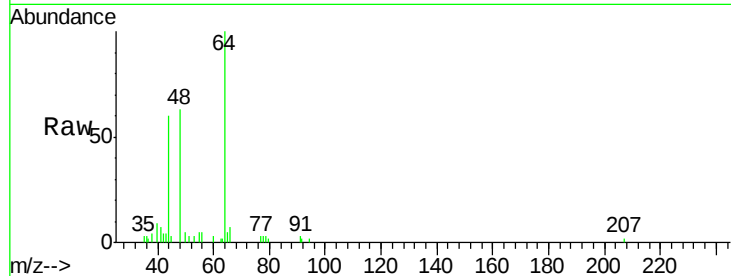
ClientSampled :

Tot Ion: 56 Resp: 324

Ion Ratio Lower Upper

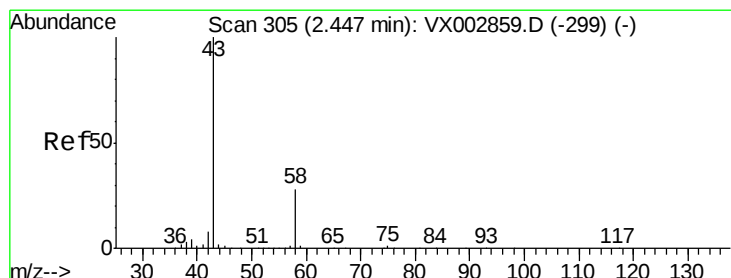
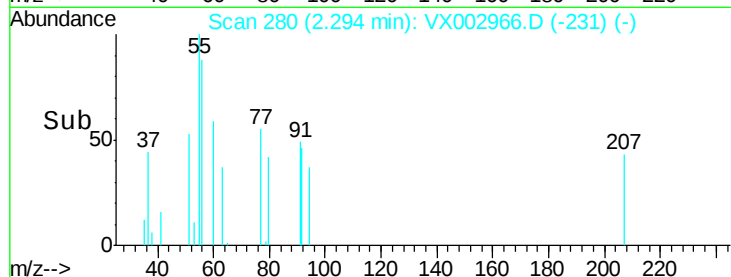
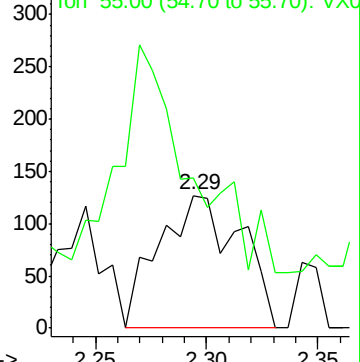
56 100

55 0.0 57.0 85.4#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 6.05 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.00 min

Lab File: VX002966.D

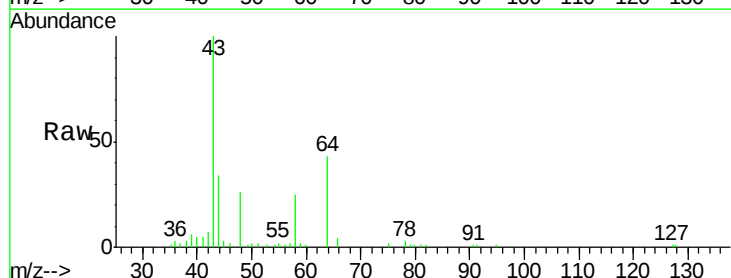
Acq: 28 Jun 2018 05:18

Tgt Ion: 43 Resp: 9498

Ion Ratio Lower Upper

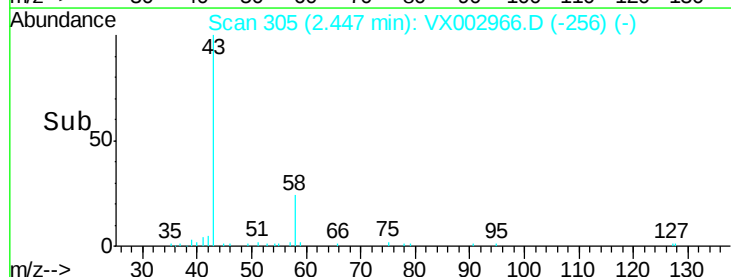
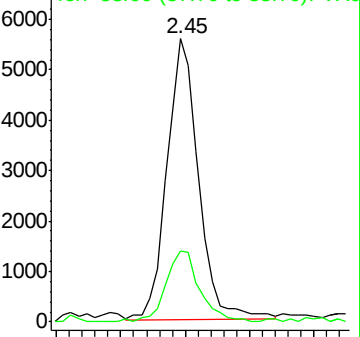
43 100

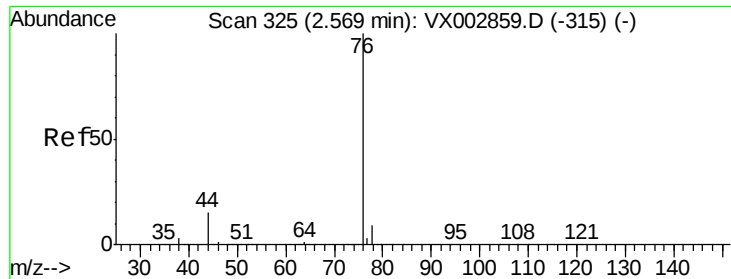
58 24.1 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

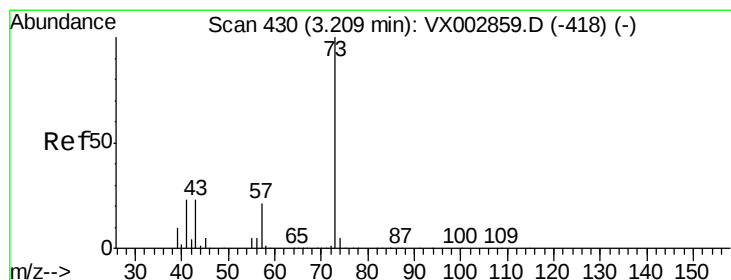
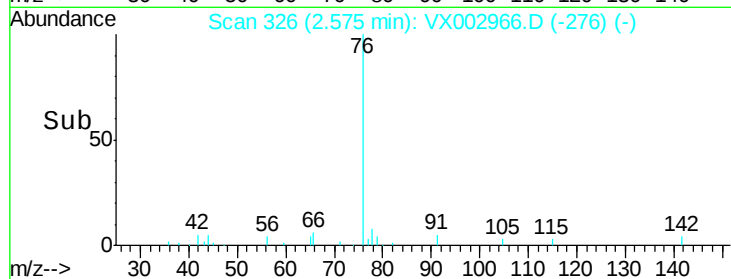
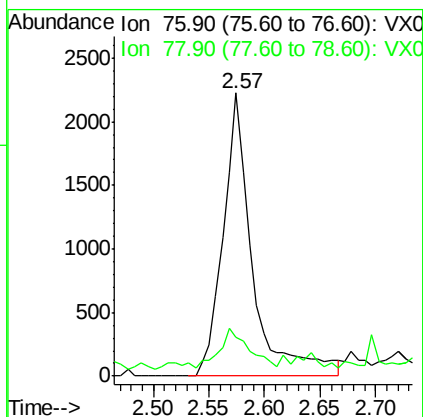
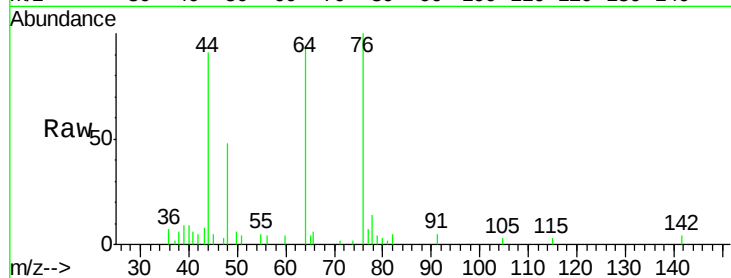




#17
Carbon Disulfide
Concen: 0.56 ug/l
RT: 2.57 min Scan# 326
Delta R.T. 0.01 min
Lab File: VX002966.D
Acq: 28 Jun 2018 05:18

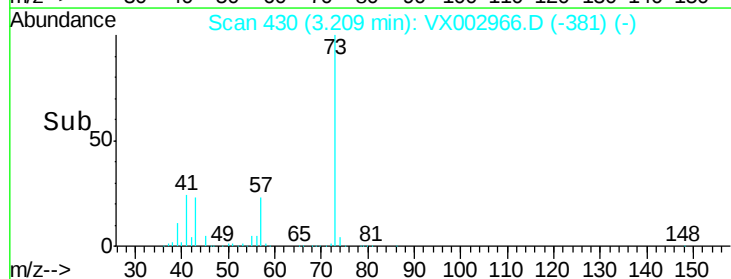
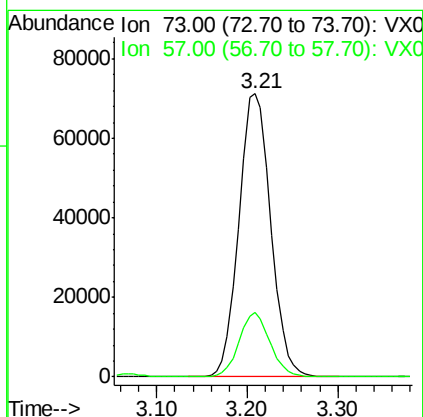
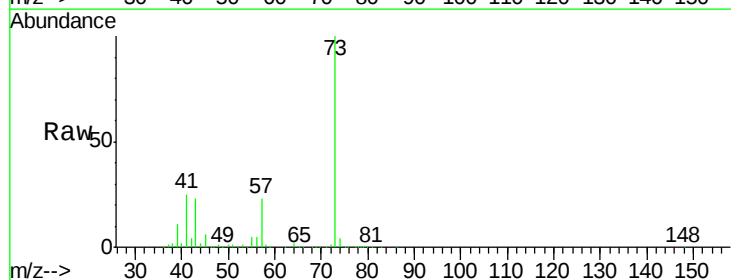
Instrument :
MSVOA_X
ClientSampleId :

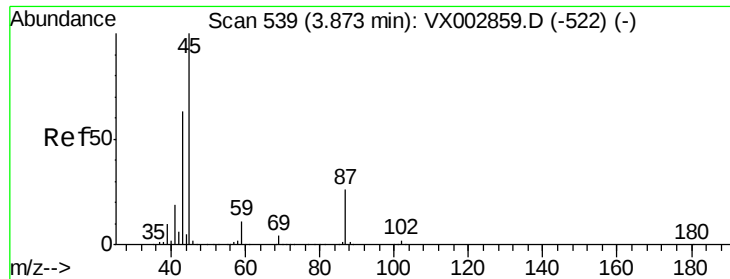
Tot Ion: 76 Resp: 4058
Ion Ratio Lower Upper
76 100
78 10.7 6.9 10.3#



#19
Methyl tert-butyl Ether
Concen: 17.82 ug/l
RT: 3.21 min Scan# 430
Delta R.T. -0.00 min
Lab File: VX002966.D
Acq: 28 Jun 2018 05:18

Tgt Ion: 73 Resp: 173179
Ion Ratio Lower Upper
73 100
57 22.6 17.7 26.5





#22

Diisopropyl ether

Concen: 1.40 ug/l

RT: 3.87 min Scan# 539

Delta R.T. -0.00 min

Lab File: VX002966.D

Acq: 28 Jun 2018 05:18

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 45 Resp: 14293

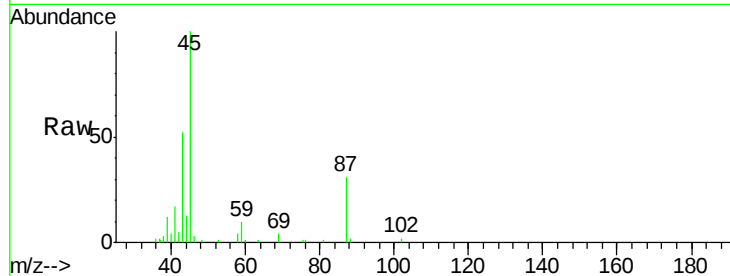
Ion Ratio Lower Upper

45 100

43 51.6 46.8 70.2

87 30.6 20.2 30.4#

59 10.5 8.7 13.1

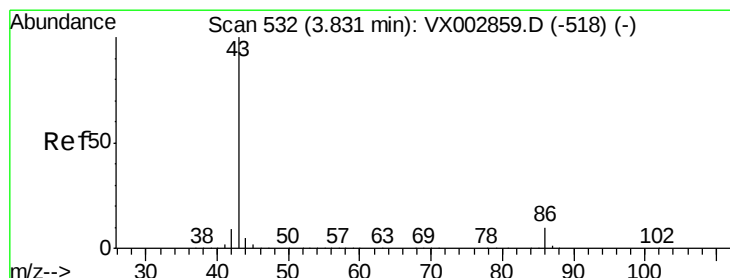
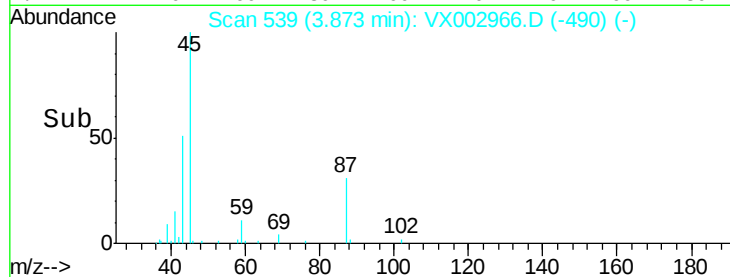
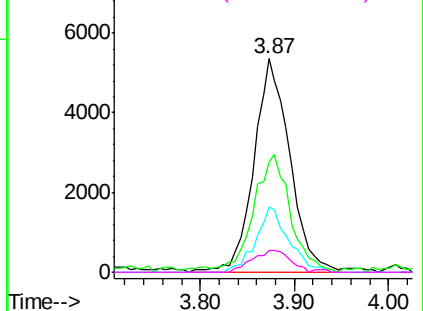


Abundance Ion 45.00 (44.70 to 45.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

Ion 59.00 (58.70 to 59.70): VX0



#23

Vinyl Acetate

Concen: 0.94 ug/l

RT: 3.88 min Scan# 540

Delta R.T. 0.05 min

Lab File: VX002966.D

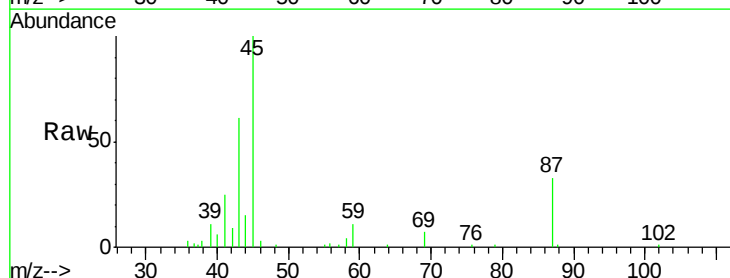
Acq: 28 Jun 2018 05:18

Tgt Ion: 43 Resp: 8073

Ion Ratio Lower Upper

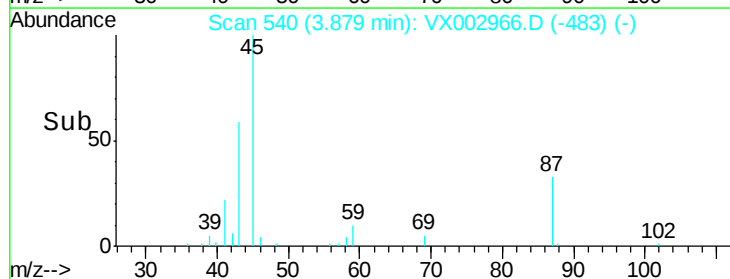
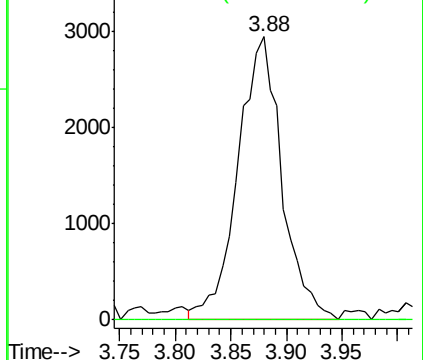
43 100

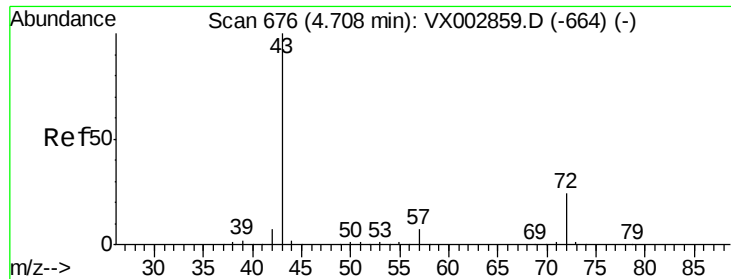
86 0.0 7.4 11.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 86.00 (85.70 to 86.70): VX0





#25

2-Butanone

Concen: 0.88 ug/l

RT: 4.71 min Scan# 677

Delta R.T. 0.01 min

Lab File: VX002966.D

Acq: 28 Jun 2018 05:18

Instrument :

MSVOA_X

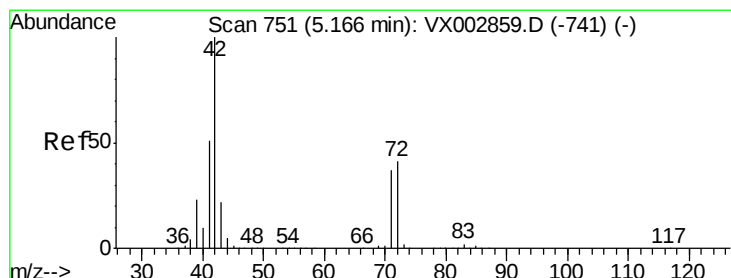
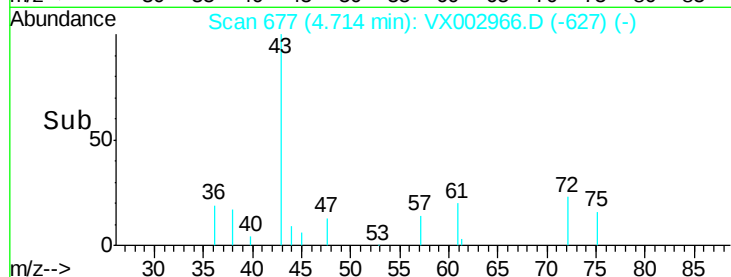
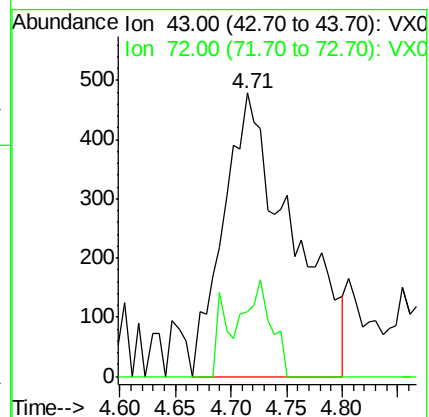
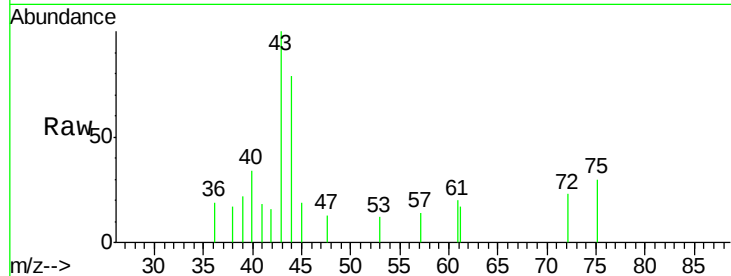
ClientSampled :

Tot Ion: 43 Resp: 2046

Ion Ratio Lower Upper

43 100

72 23.0 18.5 27.7



#29

Tetrahydrofuran

Concen: 1.04 ug/l

RT: 5.18 min Scan# 753

Delta R.T. 0.01 min

Lab File: VX002966.D

Acq: 28 Jun 2018 05:18

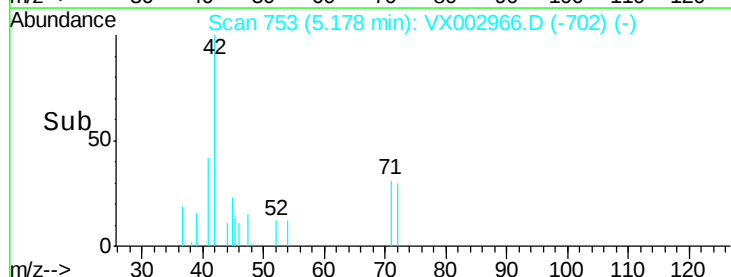
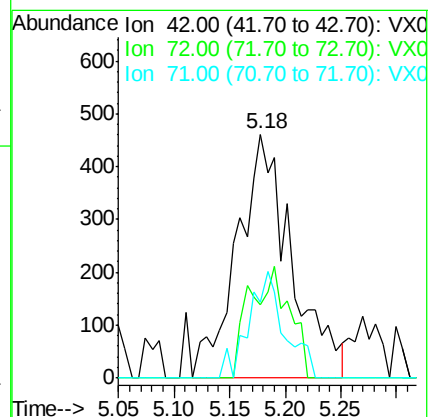
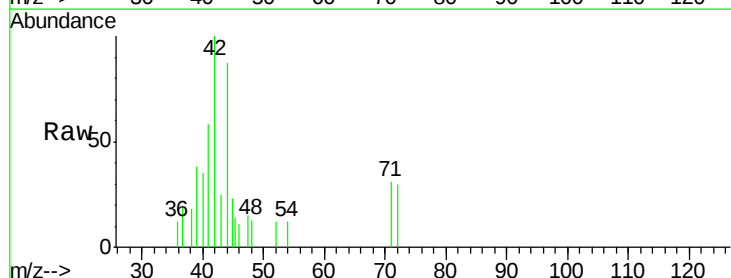
Tgt Ion: 42 Resp: 1560

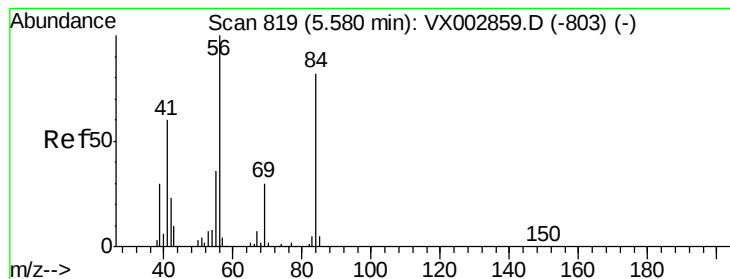
Ion Ratio Lower Upper

42 100

72 33.5 32.0 48.0

71 28.7 30.1 45.1#





#31

Cyclohexane

Concen: 0.33 ug/l

RT: 5.57 min Scan# 818

Delta R.T. -0.01 min

Lab File: VX002966.D

Acq: 28 Jun 2018 05:18

Instrument :
MSVOA_X
ClientSampleId :

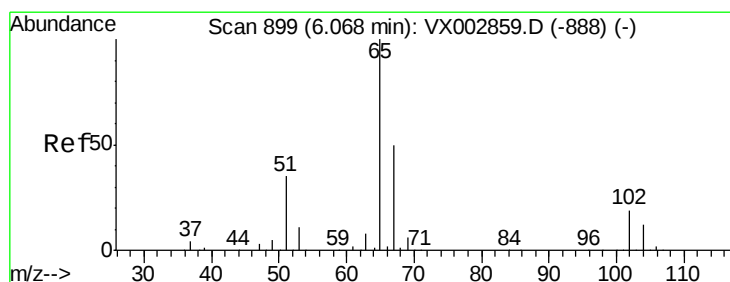
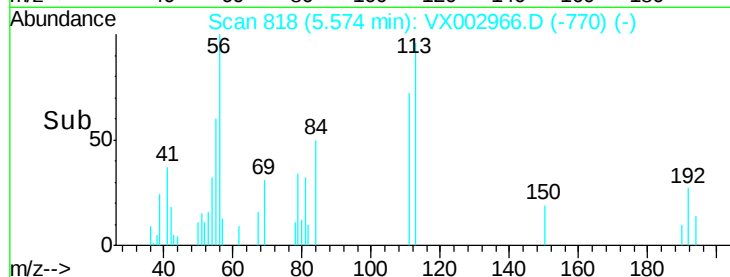
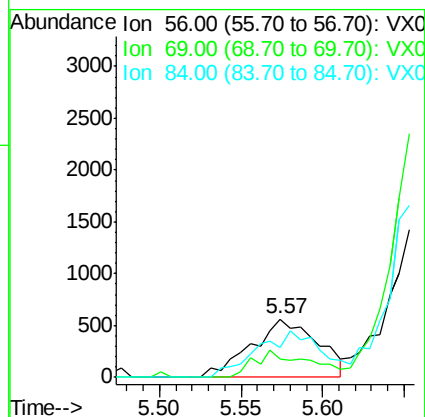
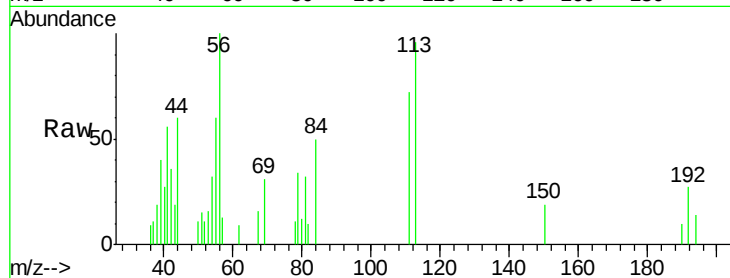
Tot Ion: 56 Resp: 1590

Ion Ratio Lower Upper

56 100

69 31.0 23.7 35.5

84 50.1 64.1 96.1#



#33

1,2-Dichloroethane-d4

Concen: 49.39 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.01 min

Lab File: VX002966.D

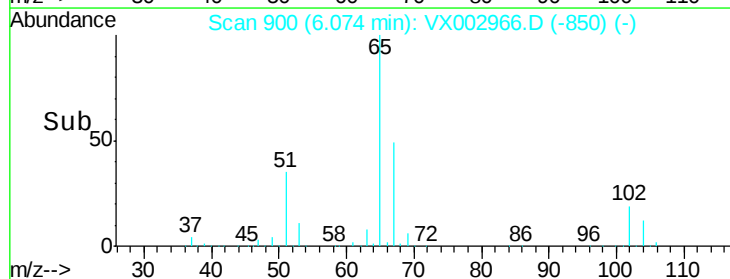
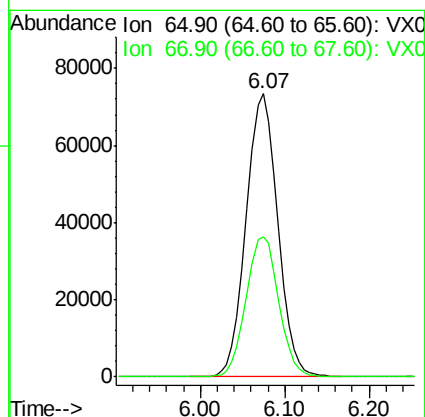
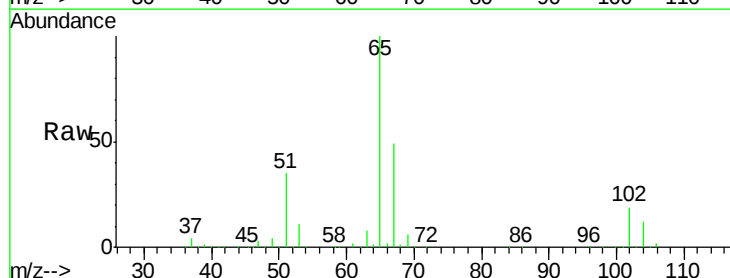
Acq: 28 Jun 2018 05:18

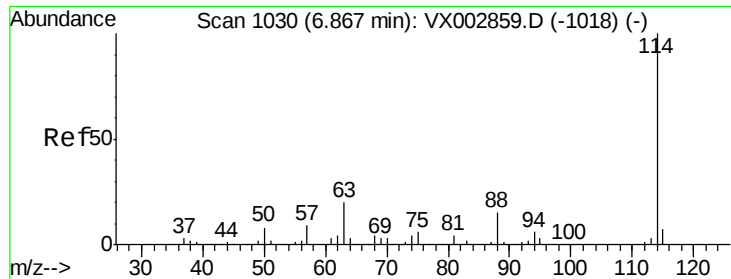
Tgt Ion: 65 Resp: 187130

Ion Ratio Lower Upper

65 100

67 51.2 0.0 102.6

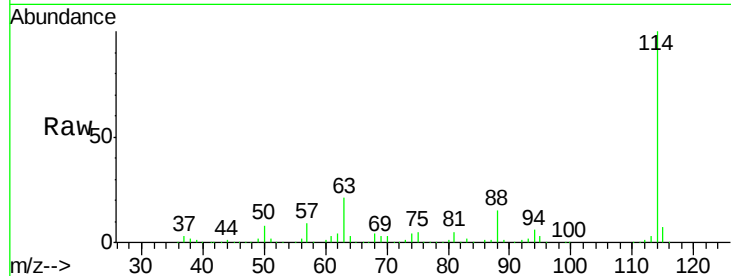




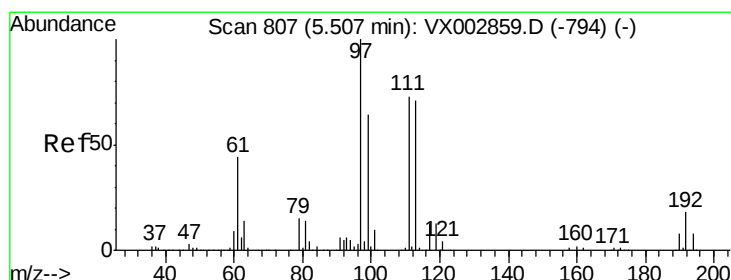
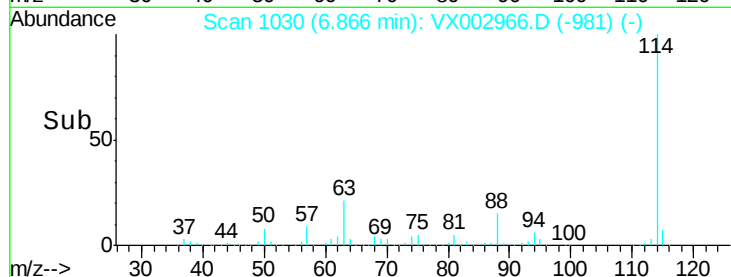
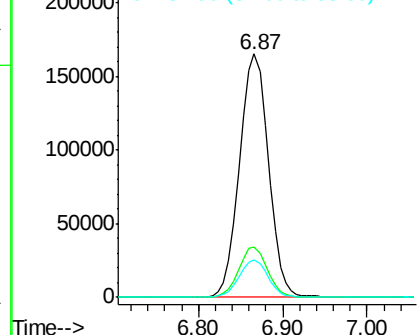
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX002966.D
 Acq: 28 Jun 2018 05:18

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion:114 Resp: 385024
 Ion Ratio Lower Upper
 114 100
 63 20.7 0.0 41.4
 88 15.4 0.0 30.0

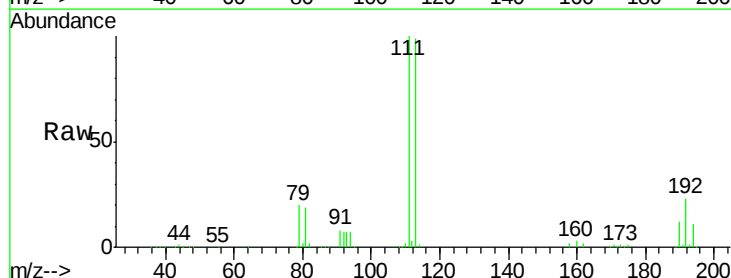


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

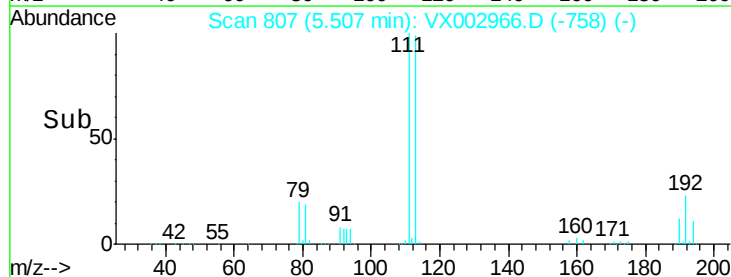
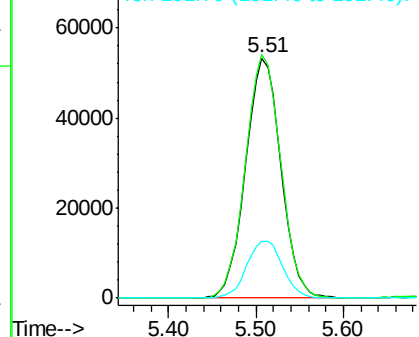


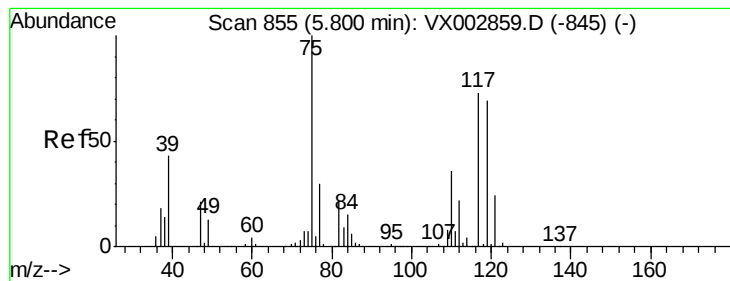
#35
 Dibromofluoromethane
 Concen: 49.17 ug/l
 RT: 5.51 min Scan# 807
 Delta R.T. -0.00 min
 Lab File: VX002966.D
 Acq: 28 Jun 2018 05:18

Tgt Ion:113 Resp: 149912
 Ion Ratio Lower Upper
 113 100
 111 101.7 81.4 122.0
 192 24.3 19.1 28.7



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.44 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.13 min

Lab File: VX002966.D

Acq: 28 Jun 2018 05:18

Instrument :

MSVOA_X

ClientSampleId :

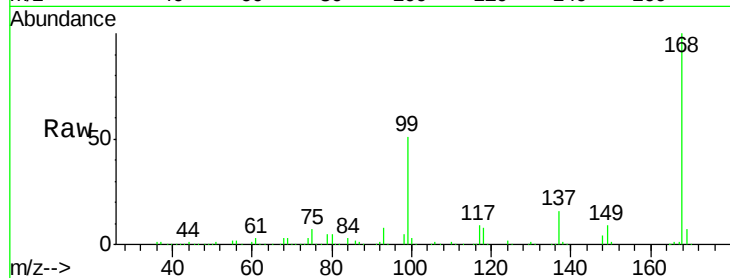
Tot Ion: 75 Resp: 18762

Ion Ratio Lower Upper

75 100

110 10.4 18.1 54.4#

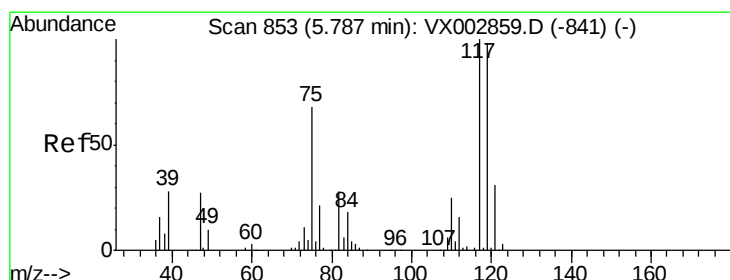
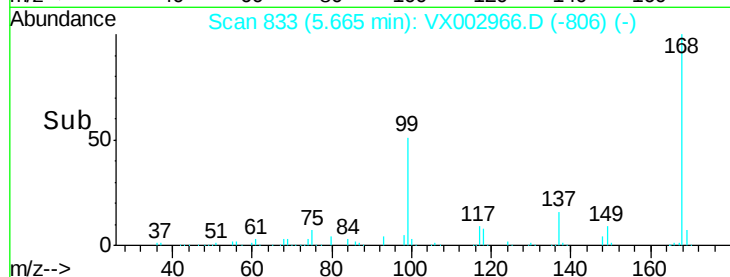
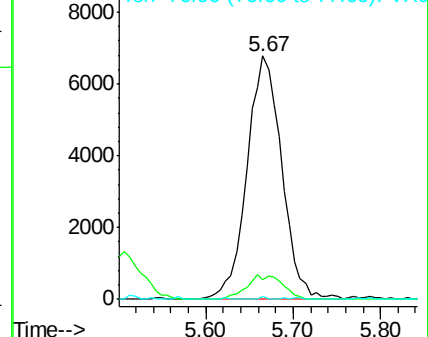
77 0.1 24.3 36.5#



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: 5.49 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

Lab File: VX002966.D

Acq: 28 Jun 2018 05:18

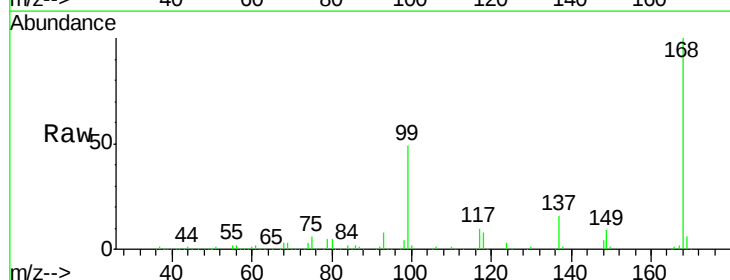
Tgt Ion: 117 Resp: 25418

Ion Ratio Lower Upper

117 100

119 4.8 77.4 116.0#

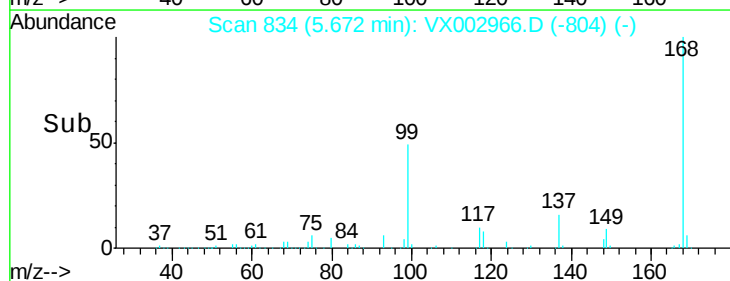
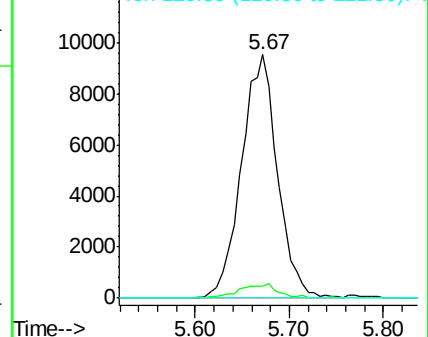
121 0.0 24.4 36.6#

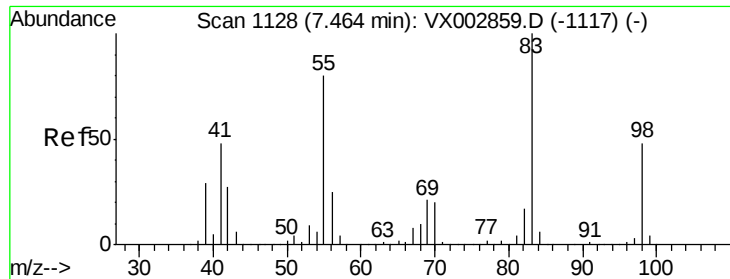


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

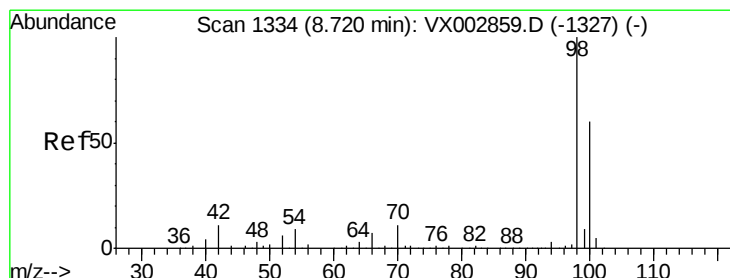
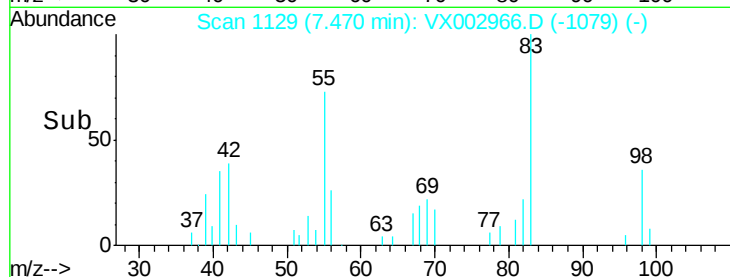
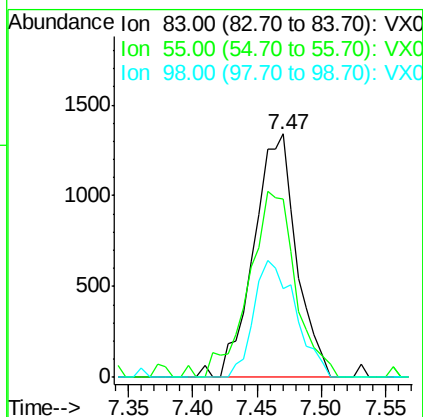
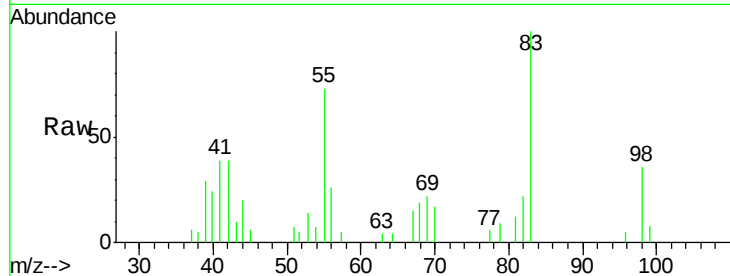




#39
Methvlcvclohexane
Concen: 0.62 ug/l
RT: 7.47 min Scan# 1129
Delta R.T. 0.01 min
Lab File: VX002966.D
Acq: 28 Jun 2018 05:18

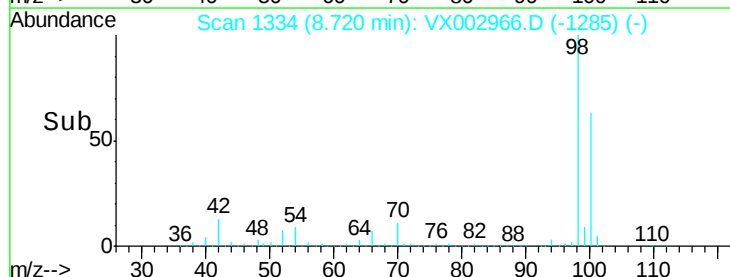
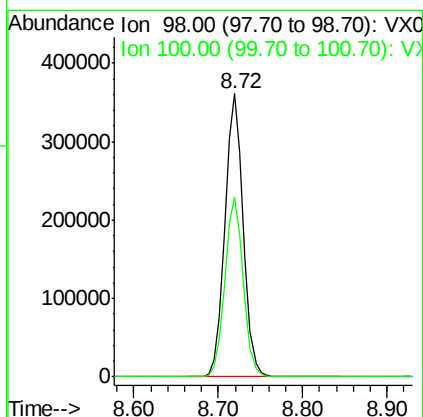
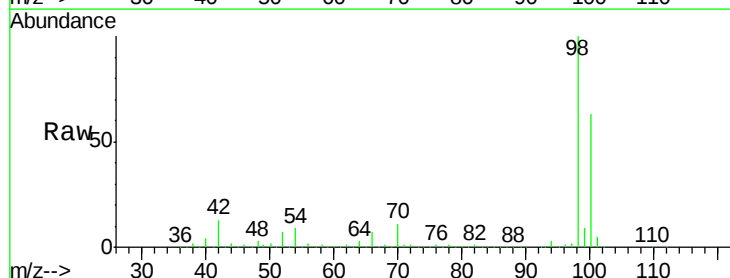
Instrument :
MSVOA_X
ClientSampleId :

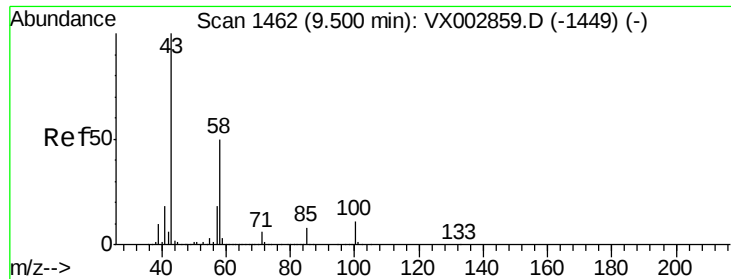
Tot Ion: 83 Resp: 3070
Ion Ratio Lower Upper
83 100
55 73.2 65.4 98.0
98 36.2 37.4 56.0#



#50
Toluene-d8
Concen: 48.50 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX002966.D
Acq: 28 Jun 2018 05:18

Tgt Ion: 98 Resp: 540055
Ion Ratio Lower Upper
98 100
100 63.5 50.9 76.3

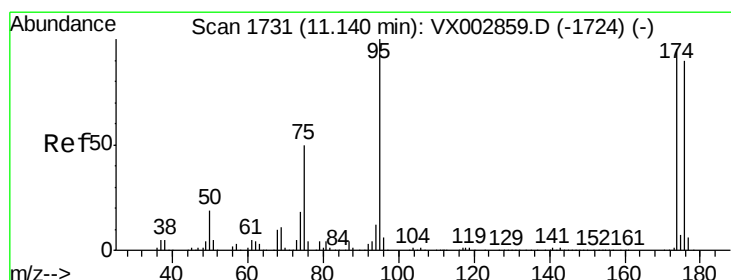
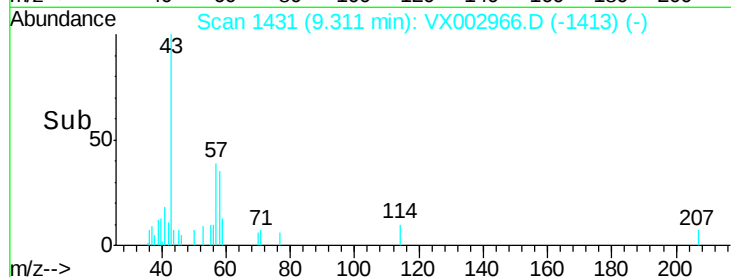
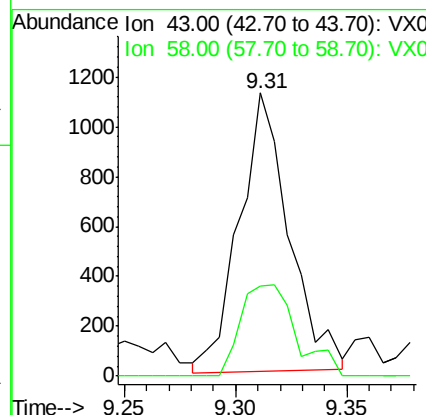
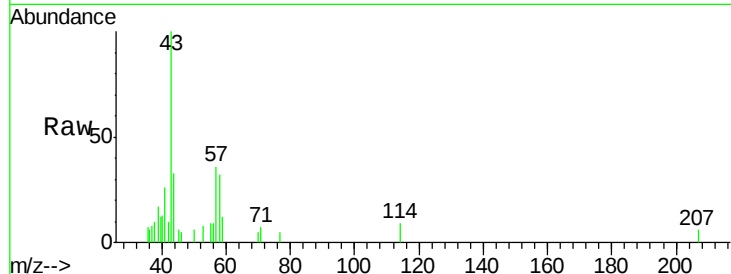




#59
2-Hexanone
Concen: 0.48 ug/l
RT: 9.31 min Scan# 1431
Delta R.T. -0.19 min
Lab File: VX002966.D
Acq: 28 Jun 2018 05:18

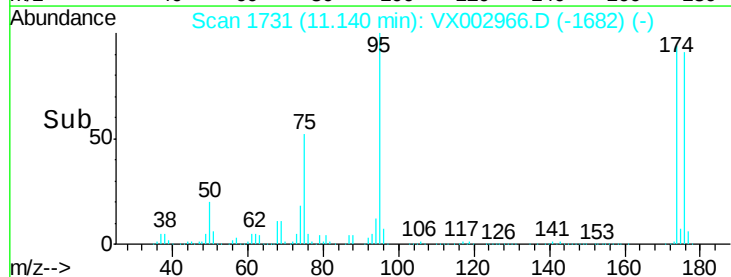
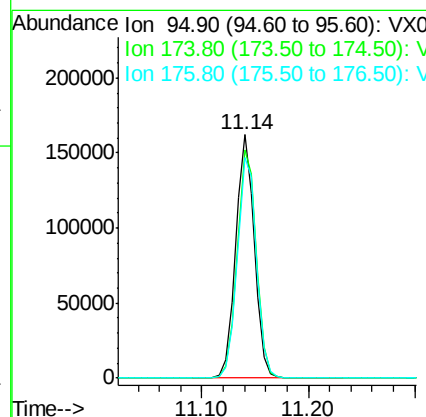
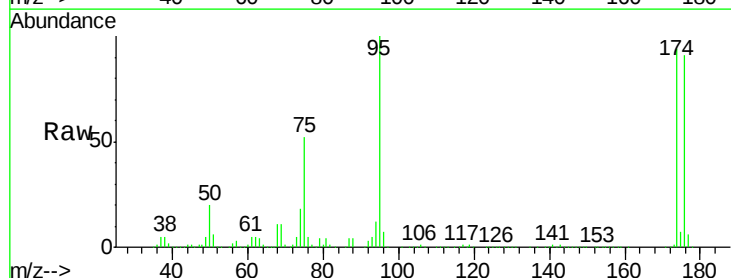
Instrument :
MSVOA_X
ClientSampleId :

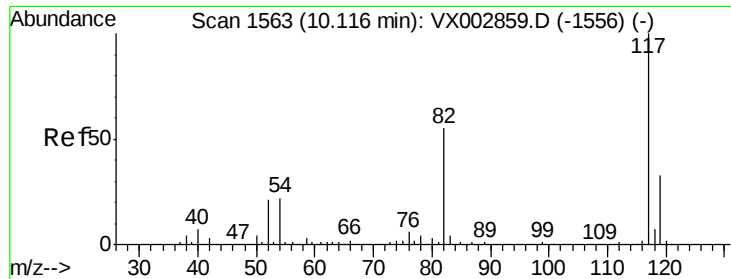
Tot Ion: 43 Resp: 1739
Ion Ratio Lower Upper
43 100
58 36.9 24.6 73.6



#62
4-Bromofluorobenzene
Concen: 46.40 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX002966.D
Acq: 28 Jun 2018 05:18

Tgt Ion: 95 Resp: 199263
Ion Ratio Lower Upper
95 100
174 96.4 0.0 187.4
176 93.4 0.0 181.0

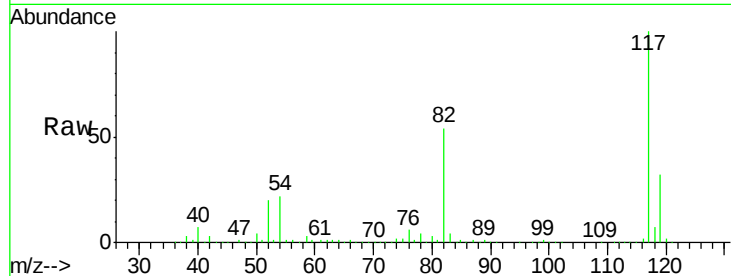




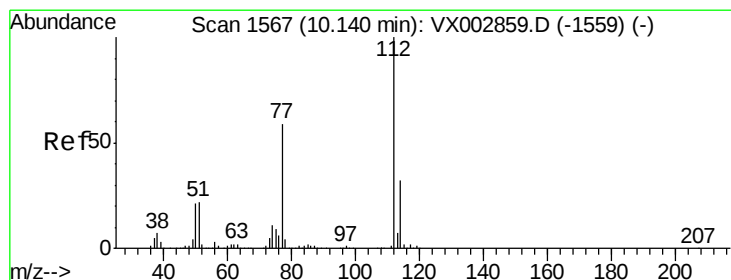
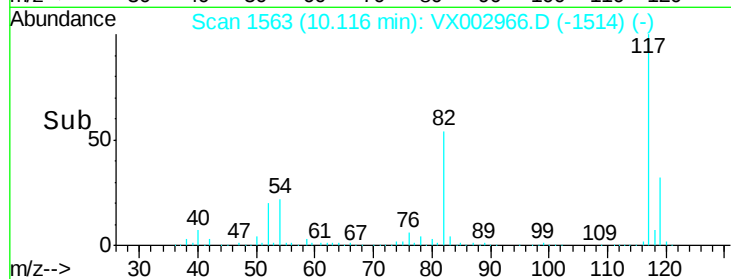
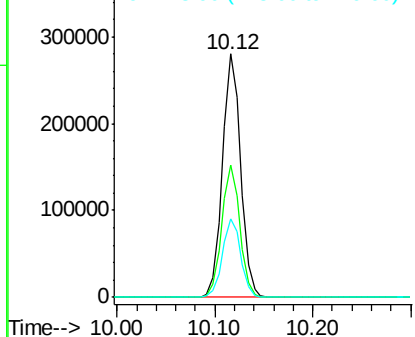
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX002966.D
Acq: 28 Jun 2018 05:18

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 361741
Ion Ratio Lower Upper
117 100
82 54.3 45.0 67.4
119 32.0 25.8 38.6

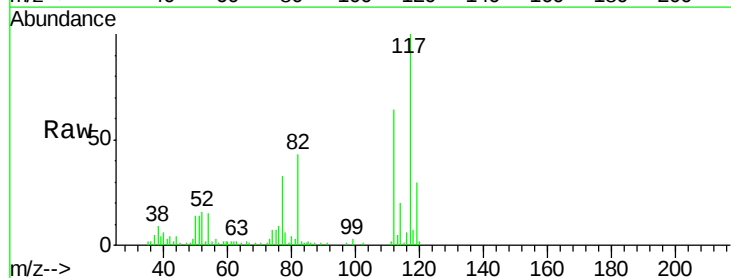


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

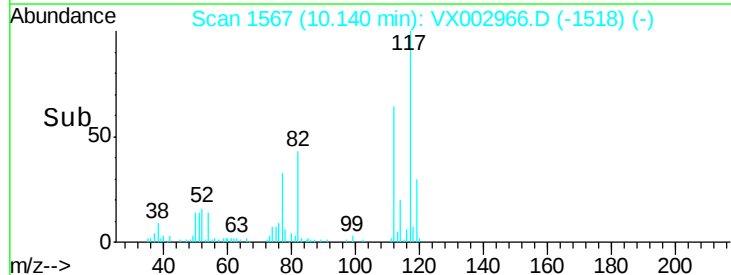
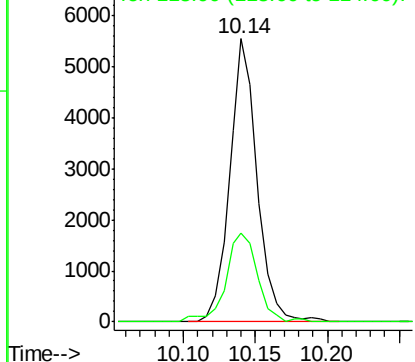


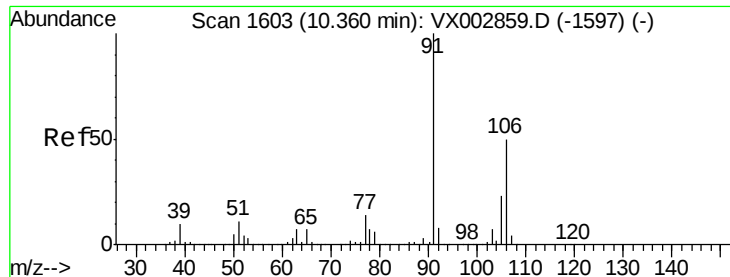
#65
Chlorobenzene
Concen: 0.80 ug/l
RT: 10.14 min Scan# 1567
Delta R.T. -0.00 min
Lab File: VX002966.D
Acq: 28 Jun 2018 05:18

Tgt Ion:112 Resp: 7376
Ion Ratio Lower Upper
112 100
114 31.3 25.3 37.9



Abundance Ion 111.90 (111.60 to 112.60): V
Ion 113.90 (113.60 to 114.60): V

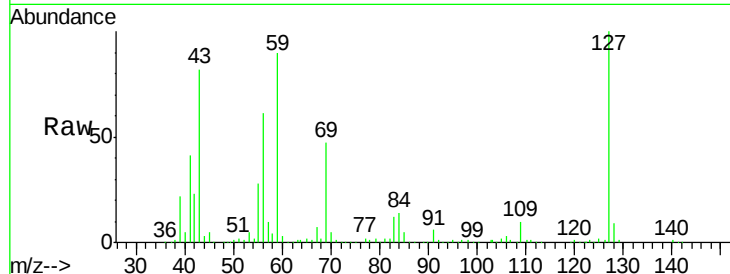




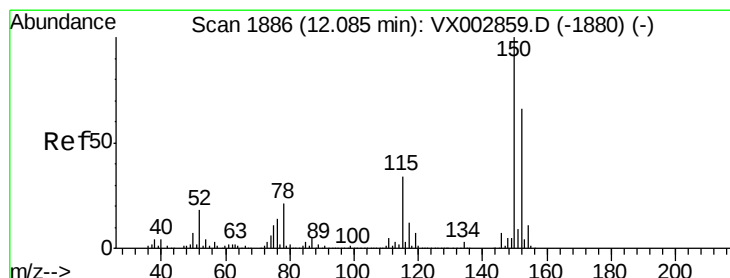
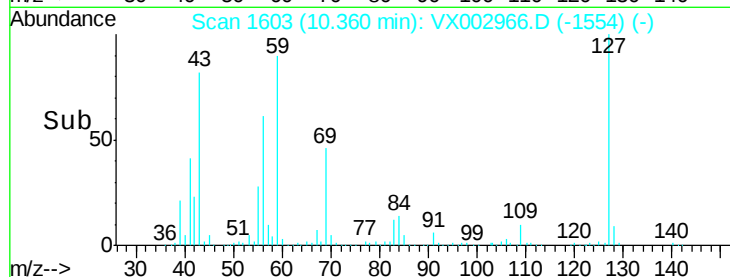
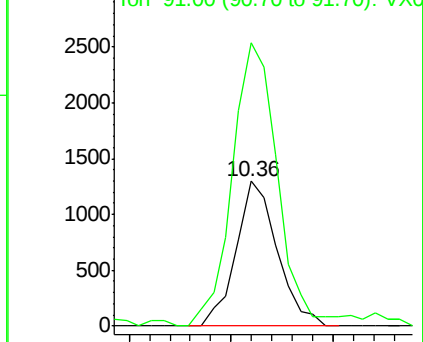
#68
m/p-Xvlenes
Concen: 0.31 ug/l
RT: 10.36 min Scan# 1603
Delta R.T. -0.00 min
Lab File: VX002966.D
Acq: 28 Jun 2018 05:18

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:106 Resp: 1817
Ion Ratio Lower Upper
106 100
91 214.5 163.4 245.2

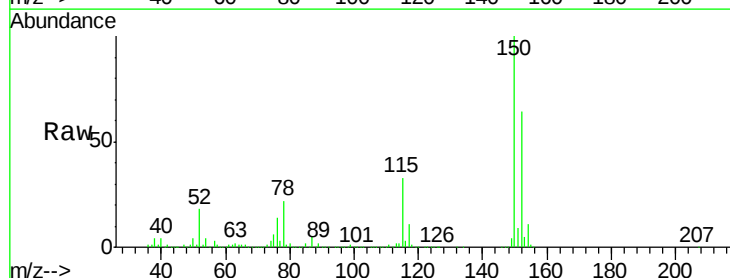


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX0

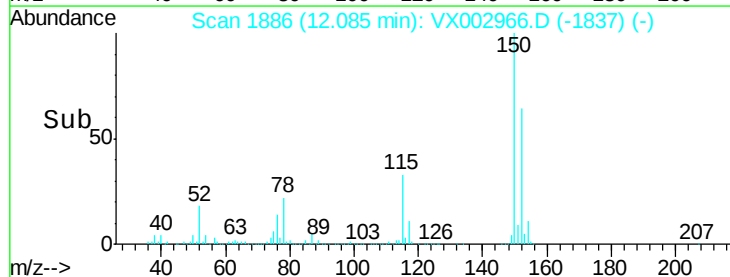
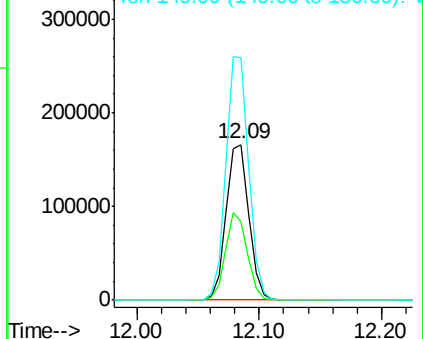


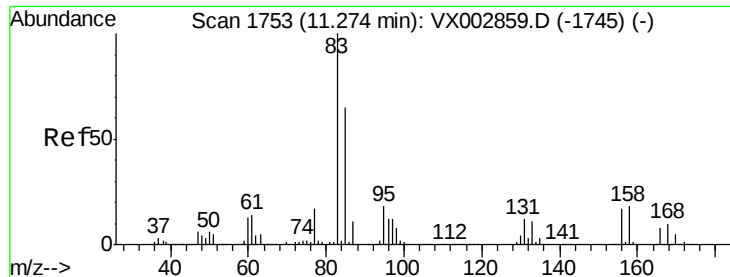
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.09 min Scan# 1886
Delta R.T. -0.00 min
Lab File: VX002966.D
Acq: 28 Jun 2018 05:18

Tgt Ion:152 Resp: 211657
Ion Ratio Lower Upper
152 100
115 54.3 40.1 120.2
150 156.9 0.0 347.2



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





#75

1,1,2,2-Tetrachloroethane

Concen: 0.23 ug/l

RT: 11.29 min Scan# 1756

Delta R.T. 0.02 min

Lab File: VX002966.D

Acq: 28 Jun 2018 05:18

Instrument :

MSVOA_X

ClientSampleId :

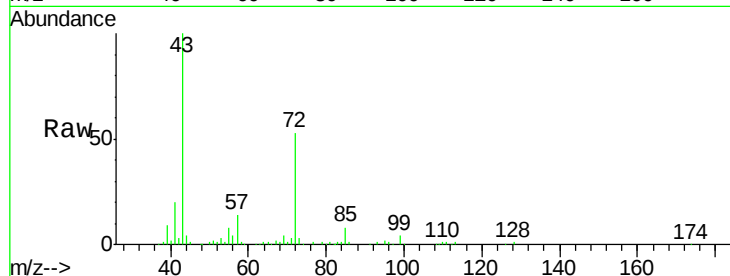
Tot Ion: 83 Resp: 999

Ion Ratio Lower Upper

83 100

131 0.0 5.6 16.8#

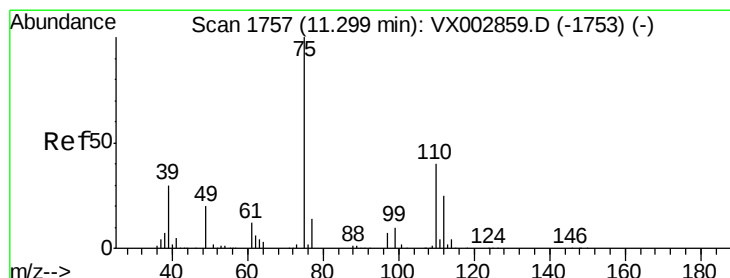
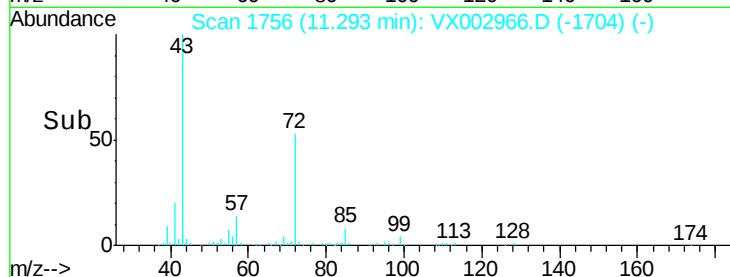
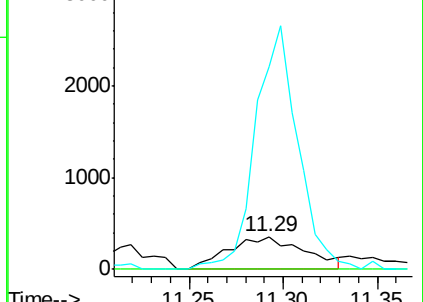
85 415.6 32.4 97.2#



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VX0



#76

1,2,3-Trichloropropane

Concen: 27.23 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002966.D

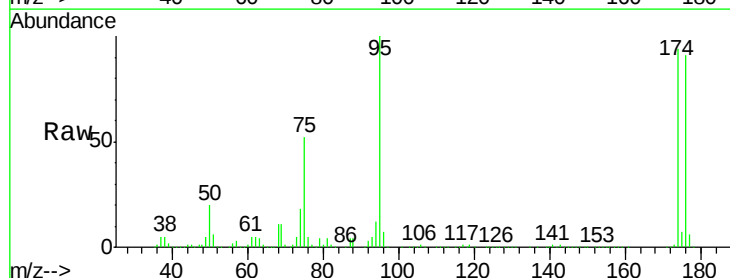
Acq: 28 Jun 2018 05:18

Tgt Ion: 75 Resp: 104414

Ion Ratio Lower Upper

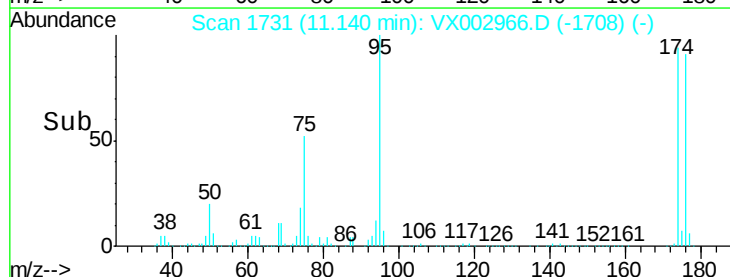
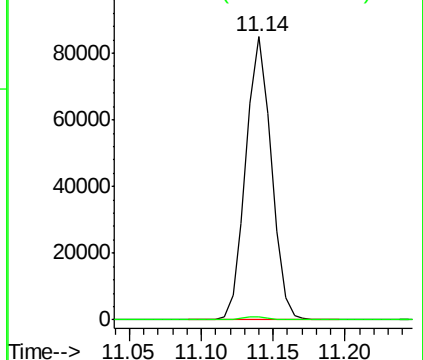
75 100

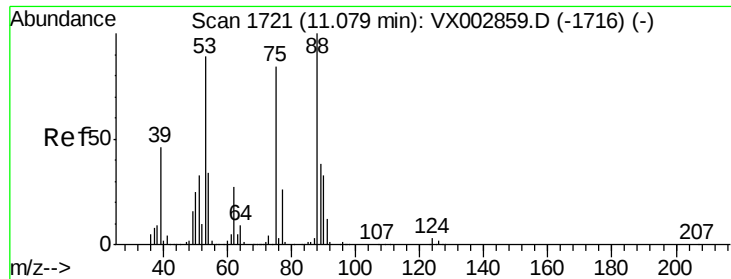
77 1.3 22.8 68.3#



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: 77.07 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002966.D

Acq: 28 Jun 2018 05:18

Instrument :

MSVOA_X

ClientSampleId :

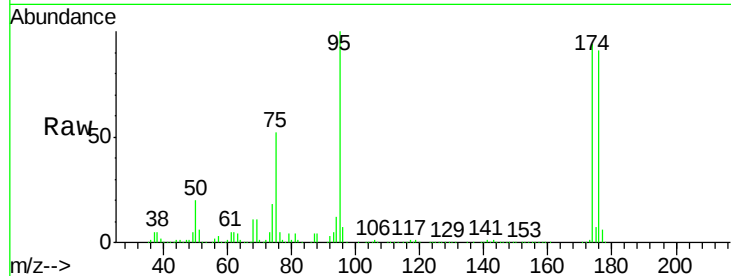
Tot Ion: 75 Resp: 104414

Ion Ratio Lower Upper

75 100

53 0.2 86.8 130.2#

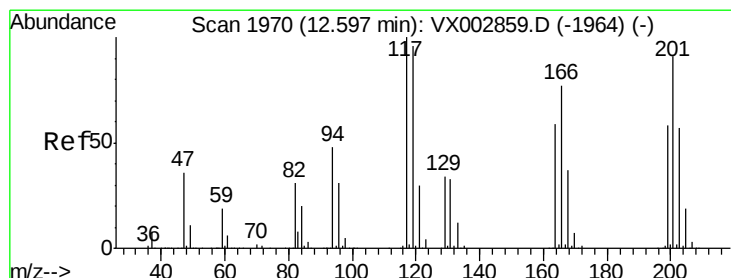
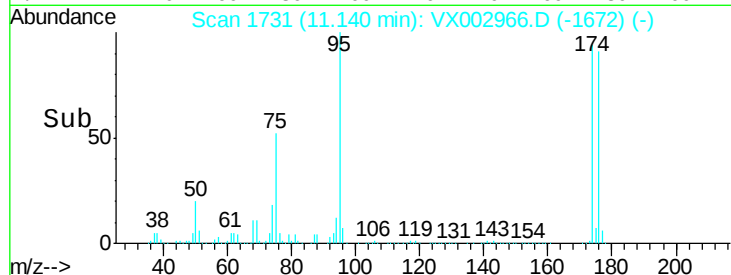
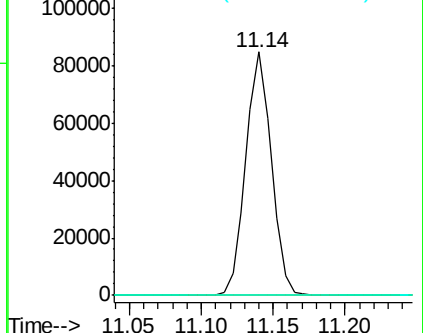
89 0.0 38.2 57.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#90

Hexachloroethane

Concen: 0.23 ug/l

RT: 12.71 min Scan# 1988

Delta R.T. 0.11 min

Lab File: VX002966.D

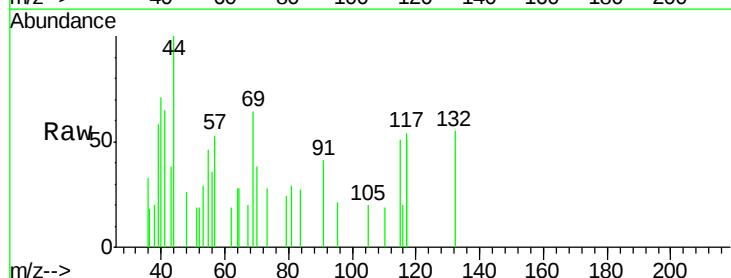
Acq: 28 Jun 2018 05:18

Tgt Ion: 117 Resp: 436

Ion Ratio Lower Upper

117 100

201 0.0 49.0 147.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

