

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062518\
 Data File : VX002878.D
 Acq On : 25 Jun 2018 23:54
 Operator : JC/MD
 Sample : J3693-07
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 W-31

Quant Time: Jun 27 05:28:34 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	235633	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	331382	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	310196	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	179290	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	162090	49.77	ug/l	0.00
Spiked Amount			Recovery	=	99.54%	
35) Dibromofluoromethane	5.51	113	128726	49.05	ug/l	0.00
Spiked Amount			Recovery	=	98.10%	
50) Toluene-d8	8.72	98	465133	48.54	ug/l	0.00
Spiked Amount			Recovery	=	97.08%	
62) 4-Bromofluorobenzene	11.14	95	166852	45.15	ug/l	0.00
Spiked Amount			Recovery	=	90.30%	

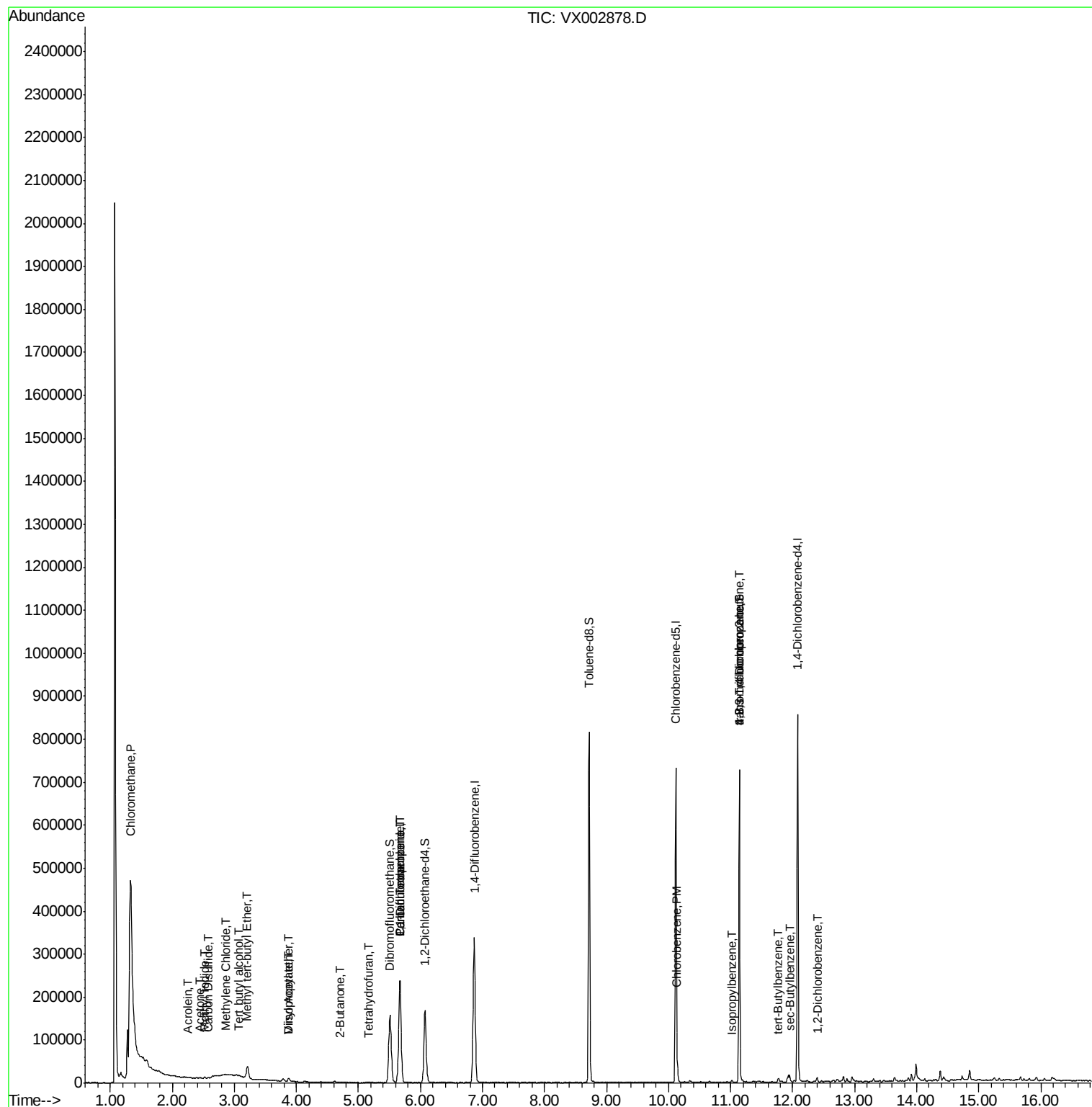
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	91	Below Cal	#	43
3) Chloromethane	1.33	50	27124	11.50	ug/l	50
5) Bromomethane	1.66	94	1901	Below Cal		98
10) Methyl Iodide	2.52	142	3217	7.29	ug/l	97
11) Tert butyl alcohol	3.07	59	2250	3.47	ug/l	64
13) Acrolein	2.25	56	49	4.36	ug/l	1
16) Acetone	2.45	43	1455	1.08	ug/l	98
17) Carbon Disulfide	2.57	76	4494	0.73	ug/l	77
19) Methyl tert-butyl Ether	3.21	73	31554	3.78	ug/l	98
20) Methylene Chloride	2.86	84	593	0.23	ug/l	72
22) Diisopropyl ether	3.87	45	7869	0.90	ug/l	96
23) Vinyl Acetate	3.87	43	4818	0.65	ug/l	75
25) 2-Butanone	4.70	43	405	0.20	ug/l	52
29) Tetrahydrofuran	5.17	42	324	0.25	ug/l	89
36) 1,1-Dichloropropene	5.67	75	16072	4.42	ug/l	51
38) Carbon Tetrachloride	5.67	117	21686	5.44	ug/l	16
65) Chlorobenzene	10.14	112	13733	1.74	ug/l	98
73) Isopropylbenzene	11.02	105	2474	0.21	ug/l	98
76) 1,2,3-Trichloropropane	11.14	75	87084	26.81	ug/l	33
81) trans-1,4-Dichloro-2-buten	11.14	75	87084	75.93	ug/l	7
83) tert-Butylbenzene	11.77	119	3016	0.30	ug/l	85
85) sec-Butylbenzene	11.95	105	5747	0.47	ug/l	56
91) 1,2-Dichlorobenzene	12.40	146	1743	0.28	ug/l	91

(#) = 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: VX002878.D

Acq: 25 Jun 2018 23:54

Instrument :

MSVOA_X

ClientSampled :

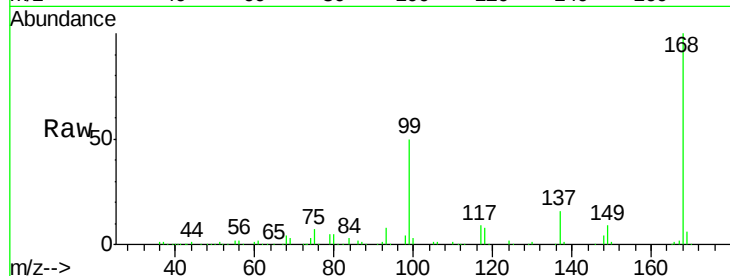
W-31

Tot Ion:168 Resp: 235633

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

80000

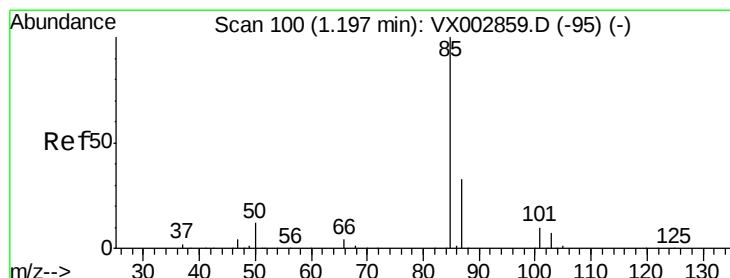
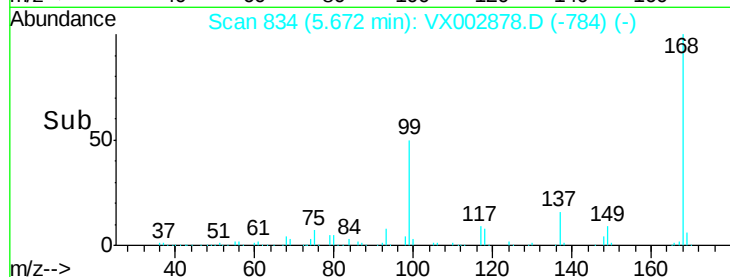
60000

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: VX002878.D

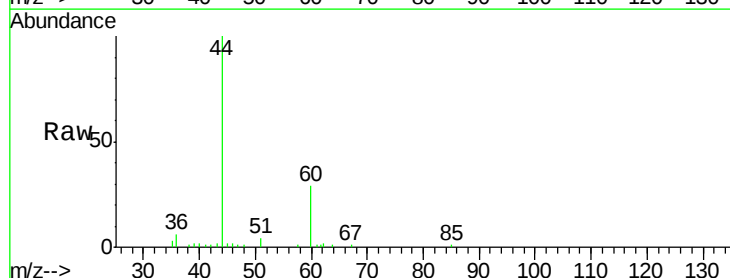
Acq: 25 Jun 2018 23:54

Tgt Ion: 85 Resp: 91

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

120

100

80

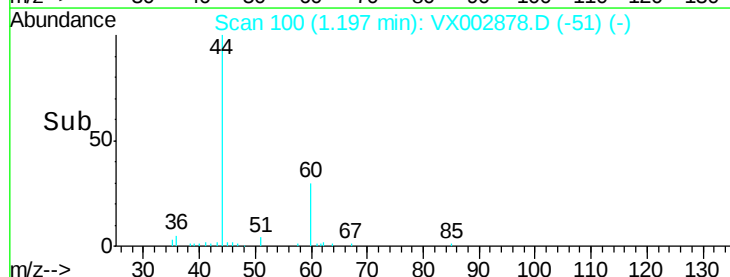
60

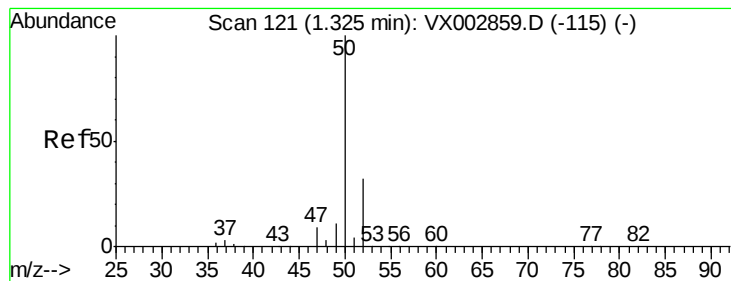
40

20

0

Time--> 1.18 1.20 1.22





#3

Chloromethane

Concen: 11.50 ug/l

RT: 1.33 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX002878.D

Acq: 25 Jun 2018 23:54

Instrument :

MSVOA_X

ClientSampled :

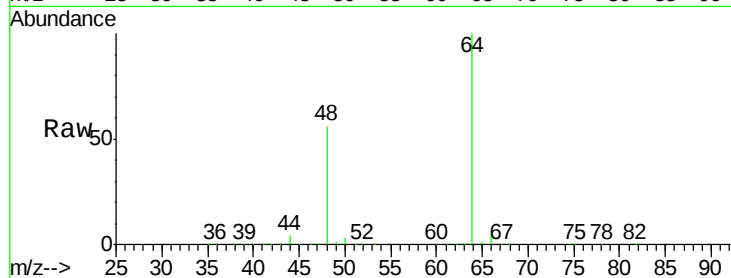
W-31

Tot Ion: 50 Resp: 27124

Ion Ratio Lower Upper

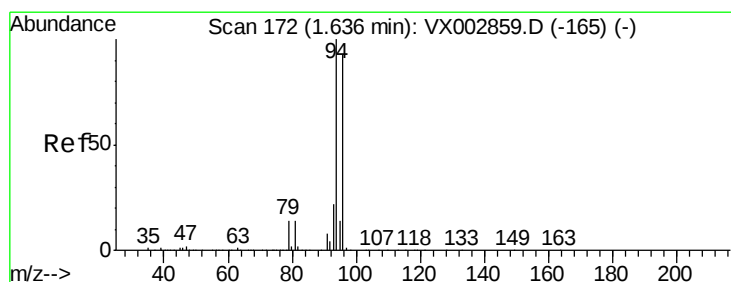
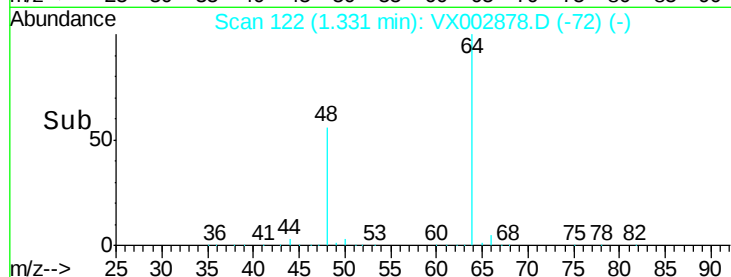
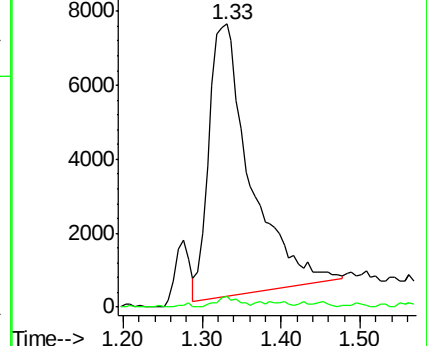
50 100

52 4.4 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.66 min Scan# 176

Delta R.T. 0.03 min

Lab File: VX002878.D

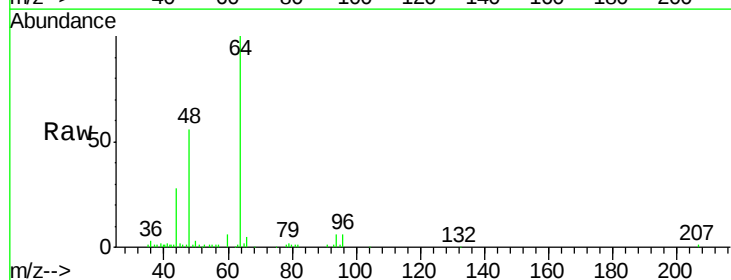
Acq: 25 Jun 2018 23:54

Tgt Ion: 94 Resp: 1901

Ion Ratio Lower Upper

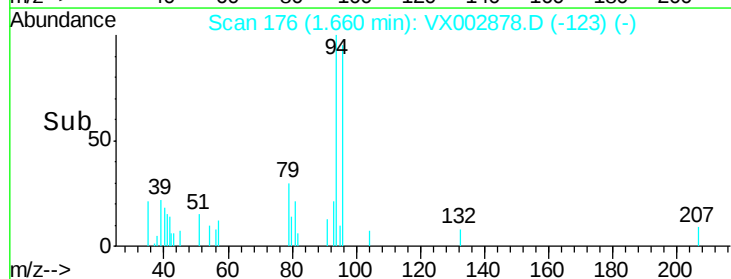
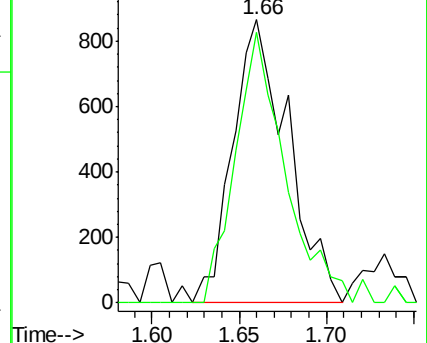
94 100

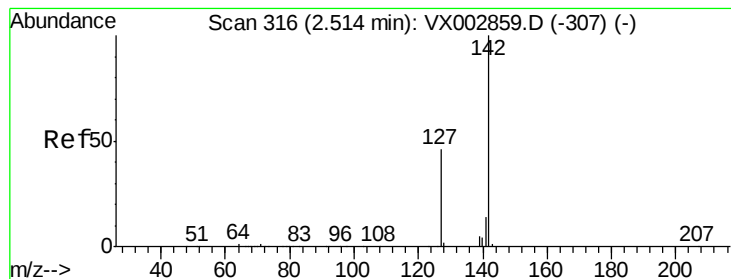
96 95.5 74.9 112.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#10

Methyl Iodide

Concen: 7.29 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX002878.D

Acq: 25 Jun 2018 23:54

Instrument :

MSVOA_X

ClientSampled :

W-31

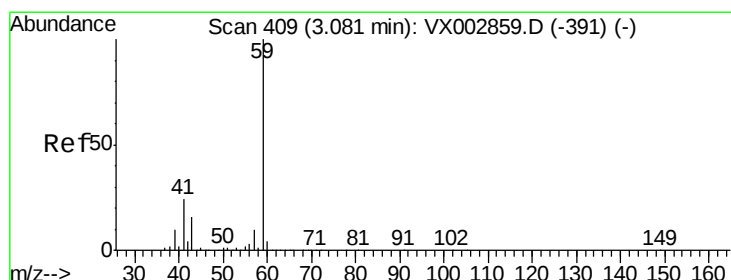
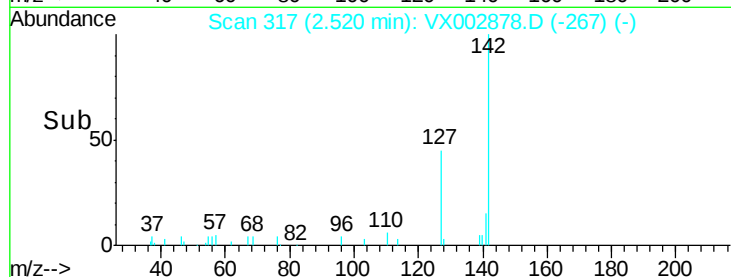
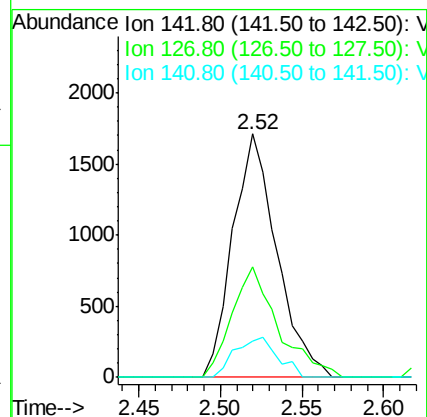
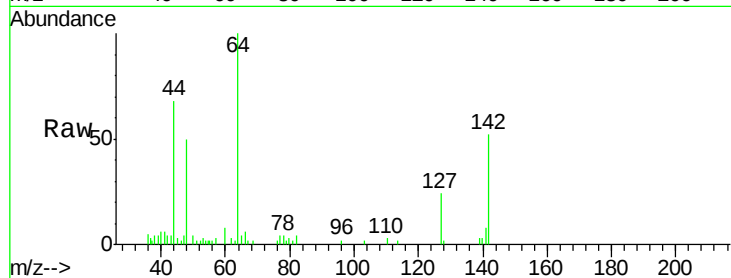
Tot Ion:142 Resp: 3217

Ion Ratio Lower Upper

142 100

127 47.7 36.6 55.0

141 16.0 11.3 16.9



#11

Tert butyl alcohol

Concen: 3.47 ug/l

RT: 3.07 min Scan# 408

Delta R.T. -0.01 min

Lab File: VX002878.D

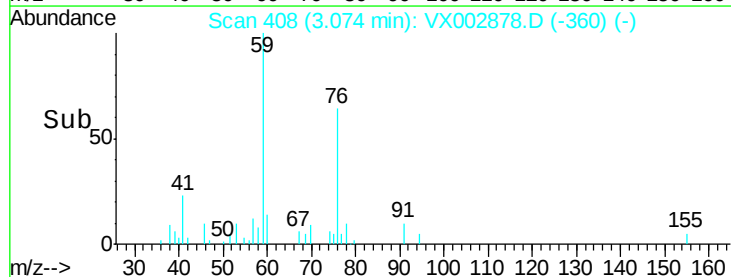
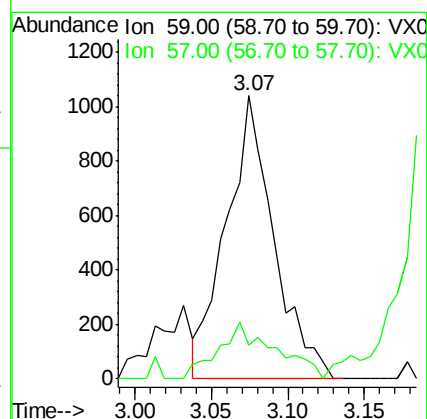
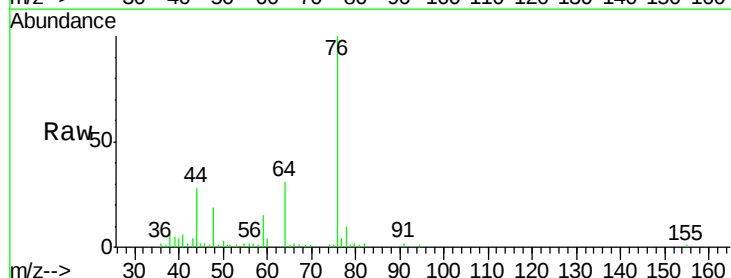
Acq: 25 Jun 2018 23:54

Tgt Ion: 59 Resp: 2250

Ion Ratio Lower Upper

59 100

57 23.6 8.2 12.2#





#13

Acrolein

Concen: 4.36 ug/l

RT: 2.25 min Scan# 273

Delta R.T. -0.04 min

Lab File: VX002878.D

Acq: 25 Jun 2018 23:54

Instrument :

MSVOA_X

ClientSampled :

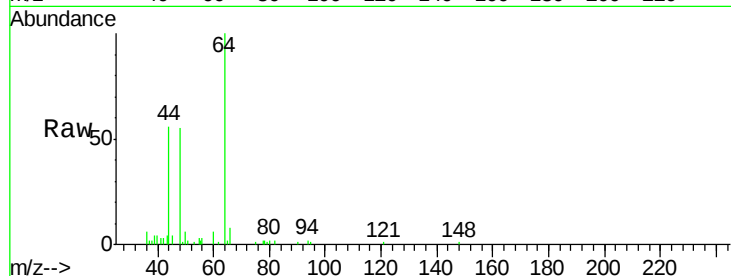
W-31

Tot Ion: 56 Resp: 49

Ion Ratio Lower Upper

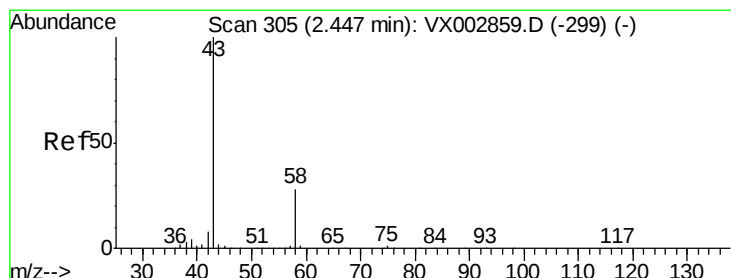
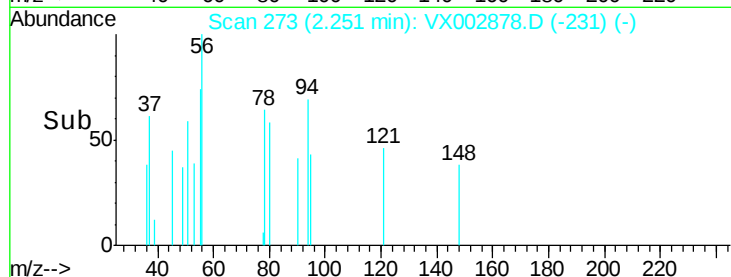
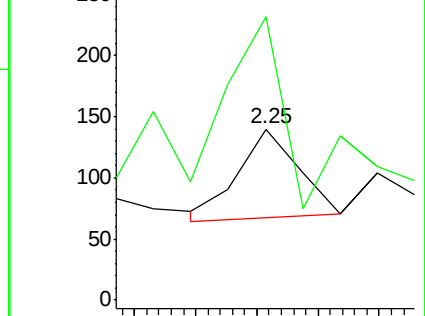
56 100

55 387.8 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: 1.08 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.01 min

Lab File: VX002878.D

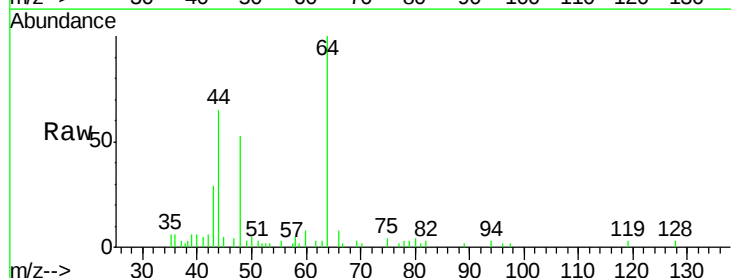
Acq: 25 Jun 2018 23:54

Tgt Ion: 43 Resp: 1455

Ion Ratio Lower Upper

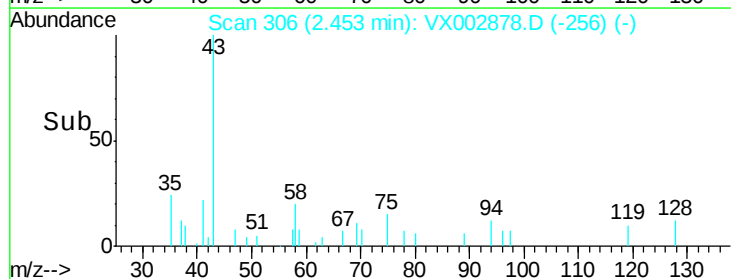
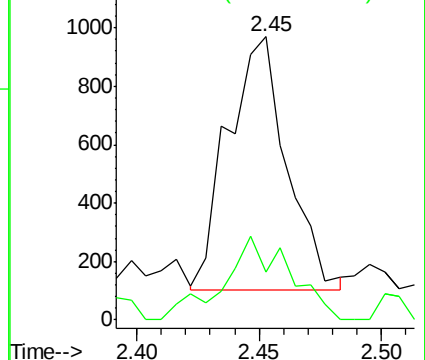
43 100

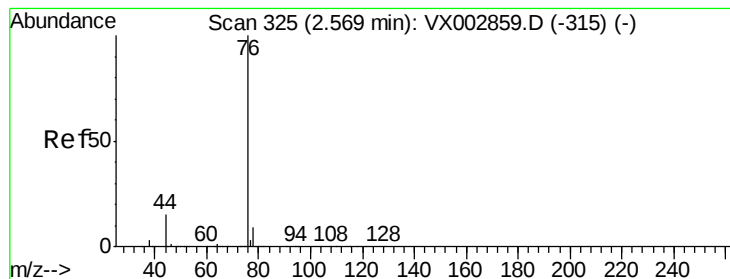
58 26.5 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 0.73 ug/l

RT: 2.57 min Scan# 326

Delta R.T. 0.01 min

Lab File: VX002878.D

Acq: 25 Jun 2018 23:54

Instrument :

MSVOA_X

ClientSampled :

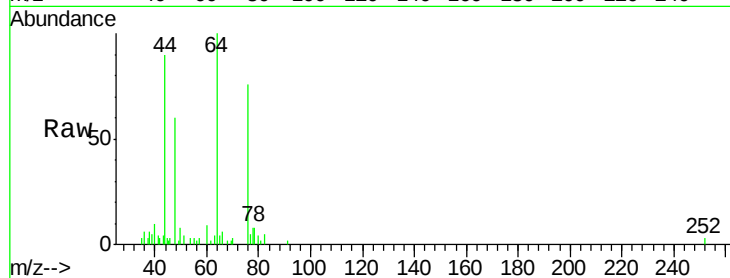
W-31

Tot Ion: 76 Resp: 4494

Ion Ratio Lower Upper

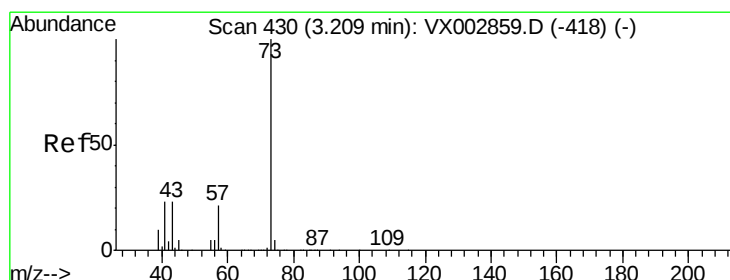
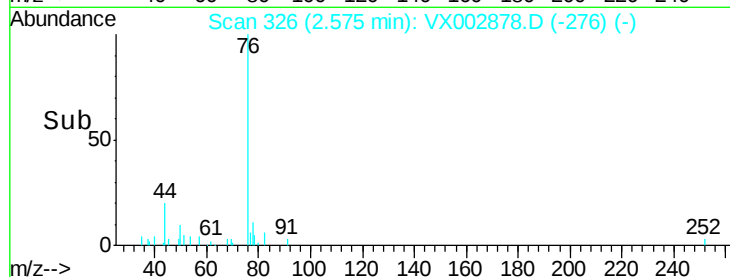
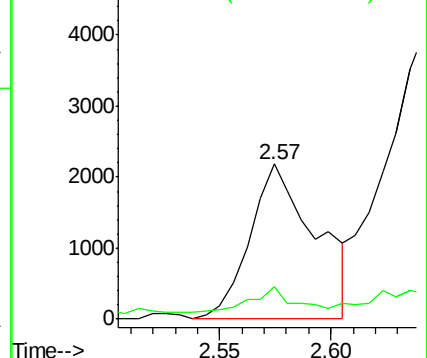
76 100

78 16.8 6.9 10.3#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#19

Methyl tert-butyl Ether

Concen: 3.78 ug/l

RT: 3.21 min Scan# 431

Delta R.T. 0.01 min

Lab File: VX002878.D

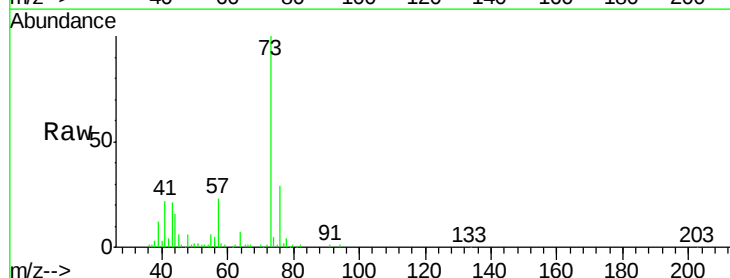
Acq: 25 Jun 2018 23:54

Tgt Ion: 73 Resp: 31554

Ion Ratio Lower Upper

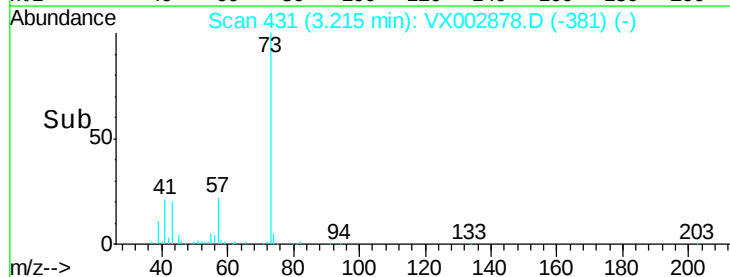
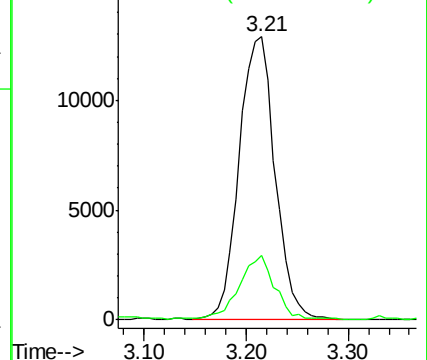
73 100

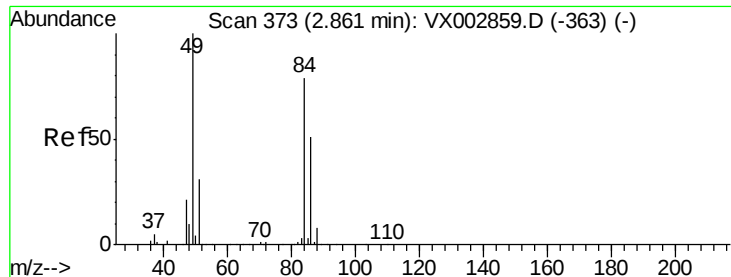
57 22.8 17.7 26.5



Abundance Ion 73.00 (72.70 to 73.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

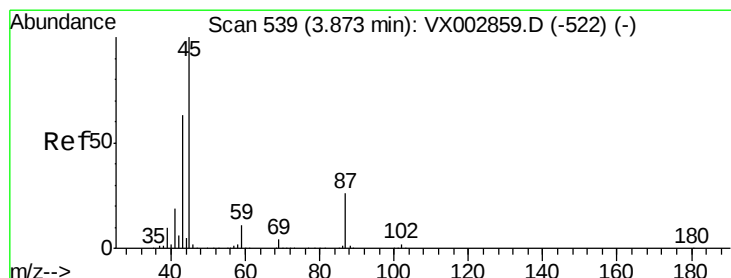
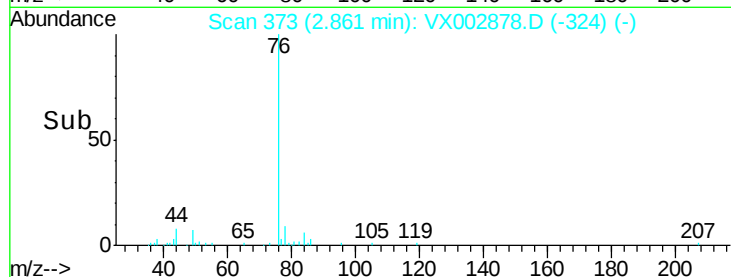
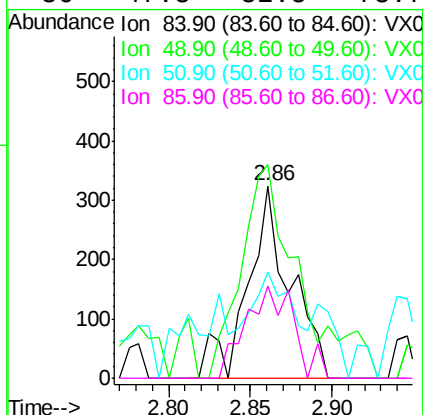
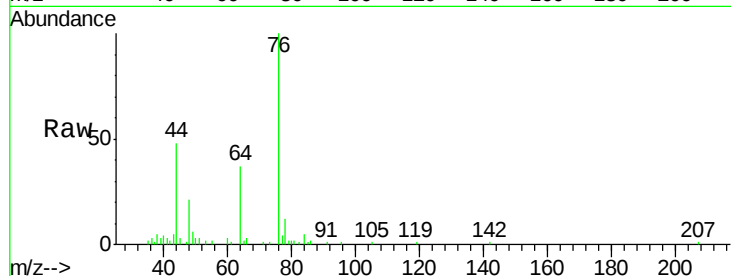




#20
Methylene Chloride
Concen: 0.23 ug/l
RT: 2.86 min Scan# 373
Delta R.T. -0.00 min
Lab File: VX002878.D
Acq: 25 Jun 2018 23:54

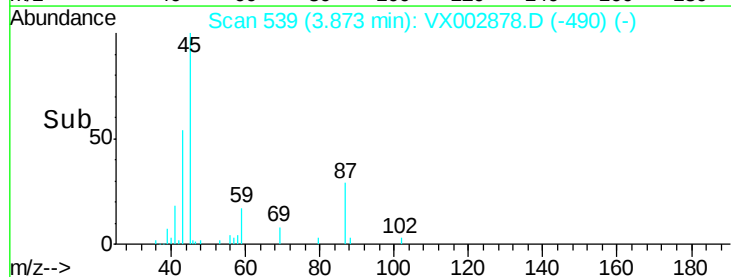
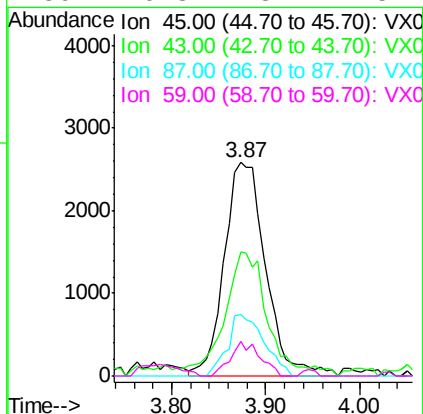
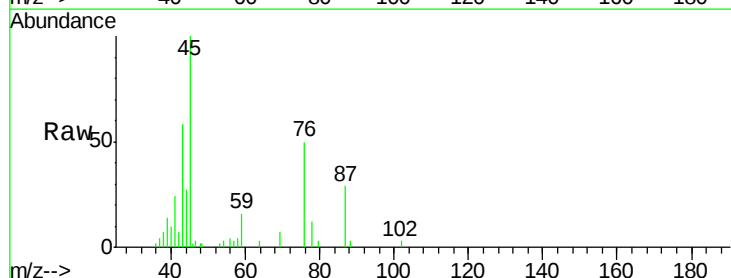
Instrument :
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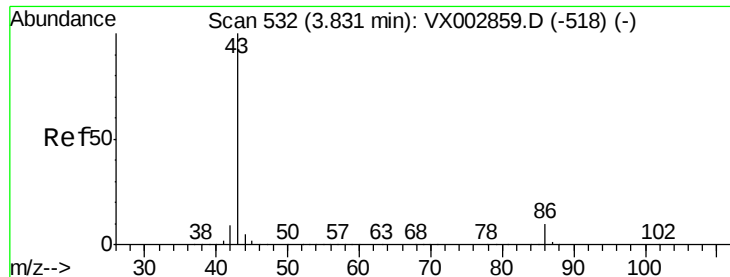
Tot Ion: 84 Resp: 593
Ion Ratio Lower Upper
84 100
49 92.0 107.8 161.6#
51 33.3 32.8 49.2
86 47.8 52.5 78.7#



#22
Diisopropyl ether
Concen: 0.90 ug/l
RT: 3.87 min Scan# 539
Delta R.T. -0.00 min
Lab File: VX002878.D
Acq: 25 Jun 2018 23:54

Tgt Ion: 45 Resp: 7869
Ion Ratio Lower Upper
45 100
43 58.2 46.8 70.2
87 28.6 20.2 30.4
59 16.3 8.7 13.1#





#23

Vinyl Acetate

Concen: 0.65 ug/l

RT: 3.87 min Scan# 539

Delta R.T. 0.04 min

Lab File: VX002878.D

Acq: 25 Jun 2018 23:54

Instrument :

MSVOA_X

ClientSampled :

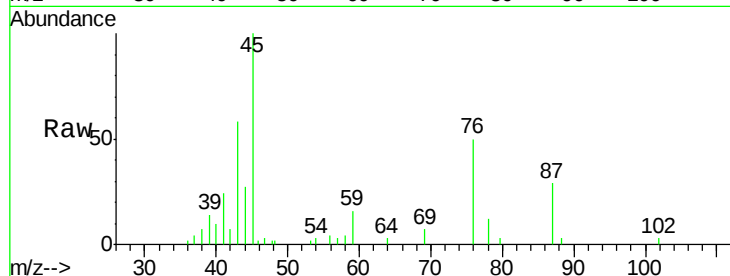
W-31

Tot Ion: 43 Resp: 4818

Ion Ratio Lower Upper

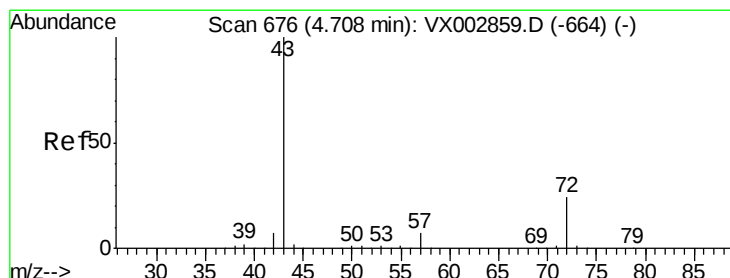
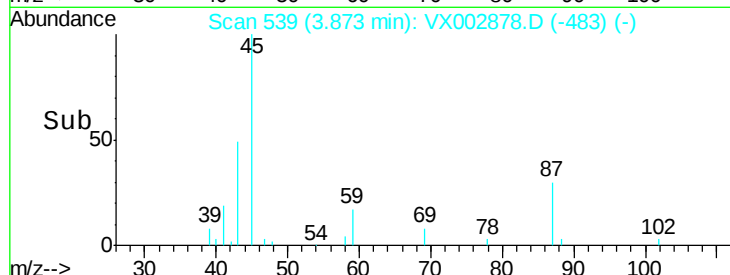
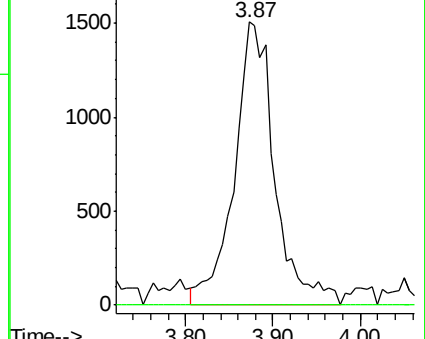
43 100

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: 0.20 ug/l

RT: 4.70 min Scan# 675

Delta R.T. -0.01 min

Lab File: VX002878.D

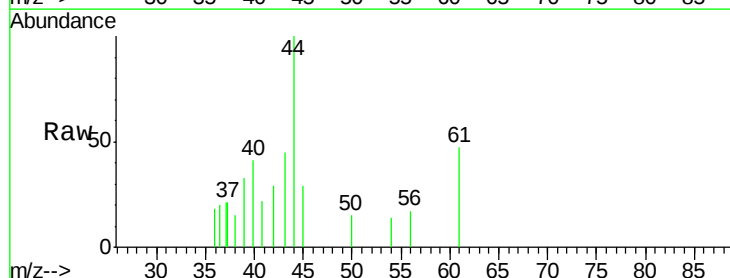
Acq: 25 Jun 2018 23:54

Tgt Ion: 43 Resp: 405

Ion Ratio Lower Upper

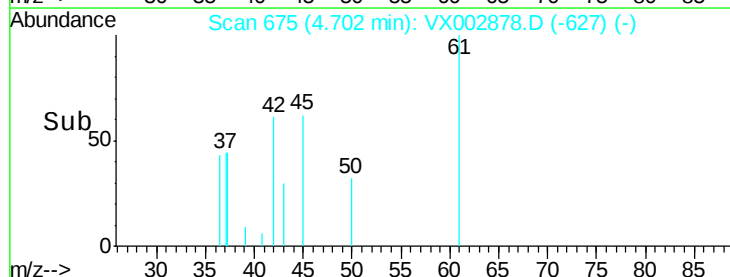
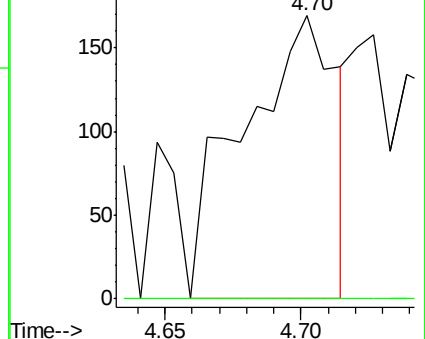
43 100

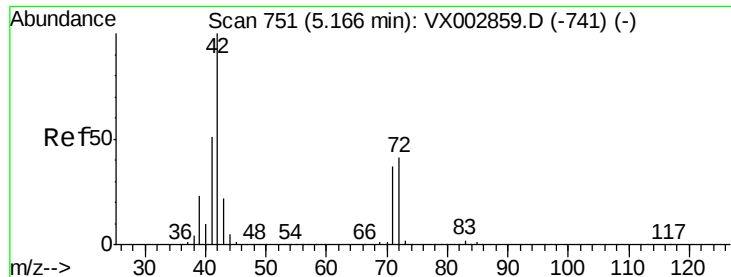
72 0.0 18.5 27.7#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#29

Tetrahydrofuran

Concen: 0.25 ug/l

RT: 5.17 min Scan# 752

Delta R.T. 0.01 min

Lab File: VX002878.D

Acq: 25 Jun 2018 23:54

Instrument :

MSVOA_X

ClientSampleId :

W-31

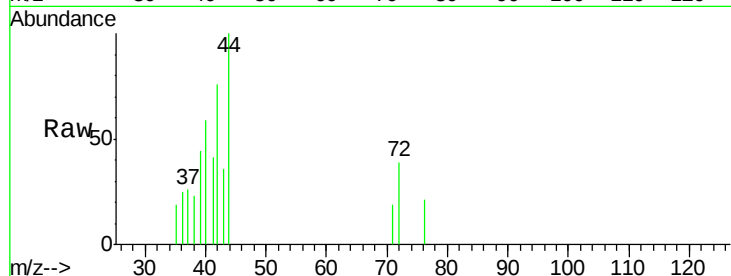
Tot Ion: 42 Resp: 324

Ion Ratio Lower Upper

42 100

72 30.9 32.0 48.0#

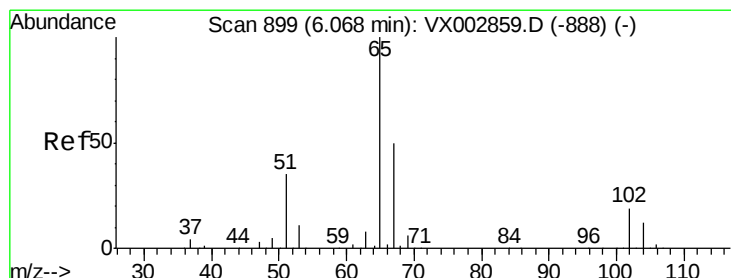
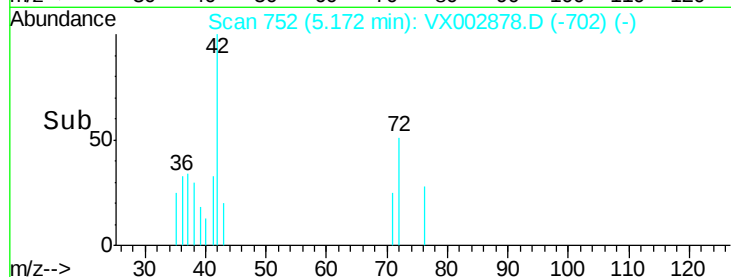
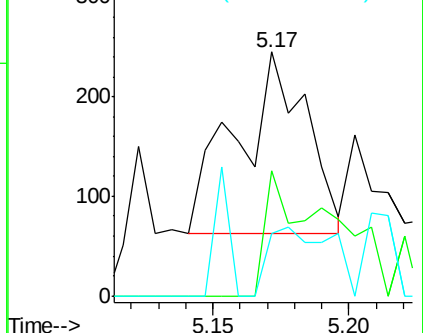
71 34.0 30.1 45.1



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 49.77 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.01 min

Lab File: VX002878.D

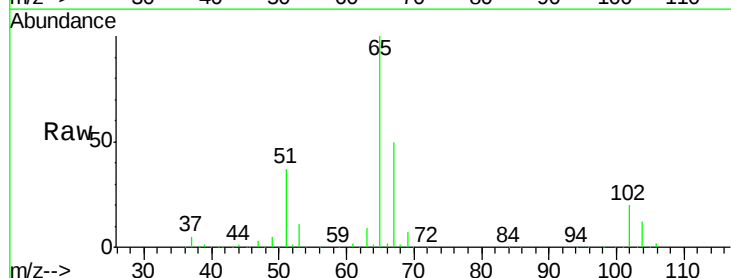
Acq: 25 Jun 2018 23:54

Tgt Ion: 65 Resp: 162090

Ion Ratio Lower Upper

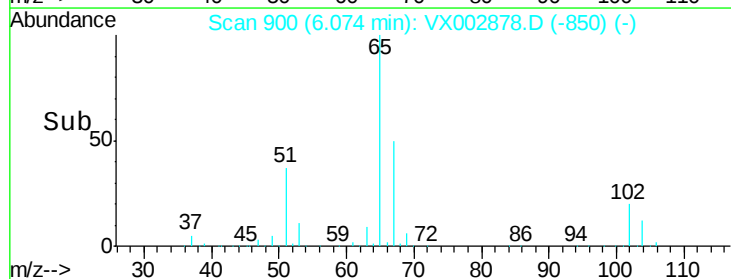
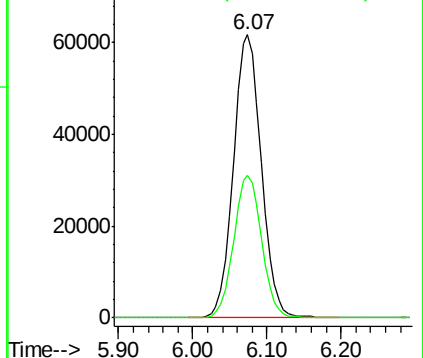
65 100

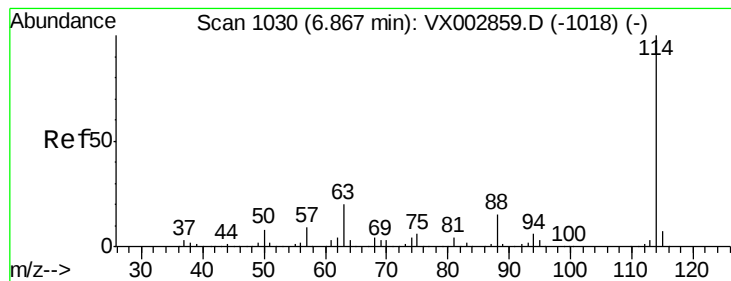
67 50.4 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VX002878.D

Acq: 25 Jun 2018 23:54

Instrument :

MSVOA_X

ClientSampleId :

W-31

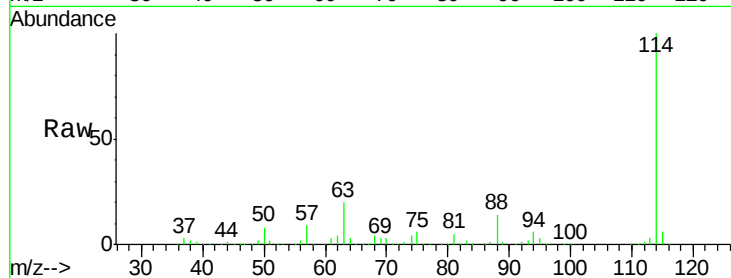
Tot Ion:114 Resp: 331382

Ion Ratio Lower Upper

114 100

63 20.4 0.0 41.4

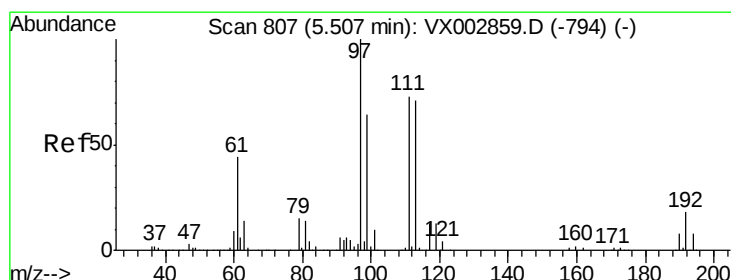
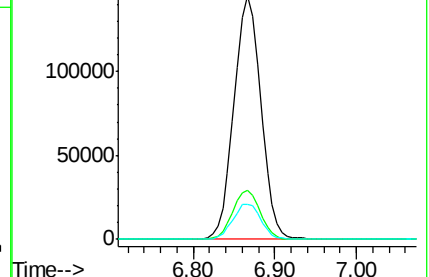
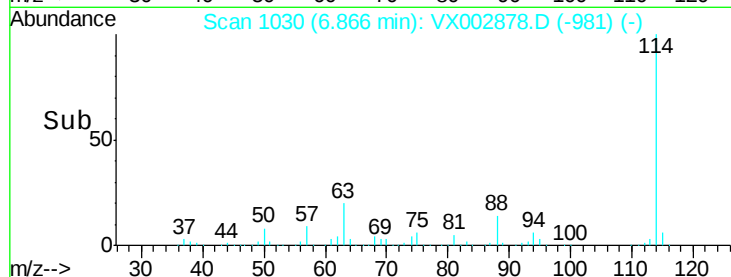
88 14.5 0.0 30.0



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: 49.05 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.00 min

Lab File: VX002878.D

Acq: 25 Jun 2018 23:54

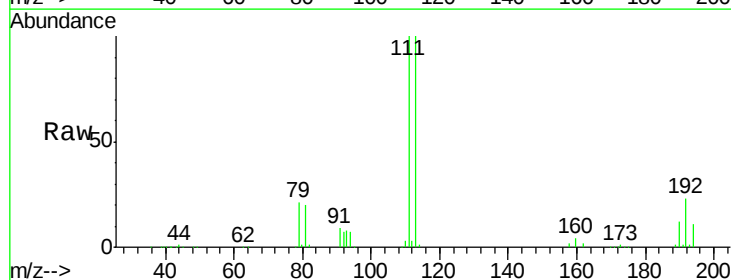
Tgt Ion:113 Resp: 128726

Ion Ratio Lower Upper

113 100

111 102.2 81.4 122.0

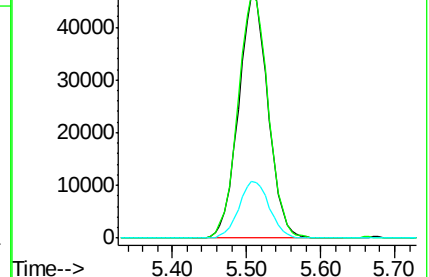
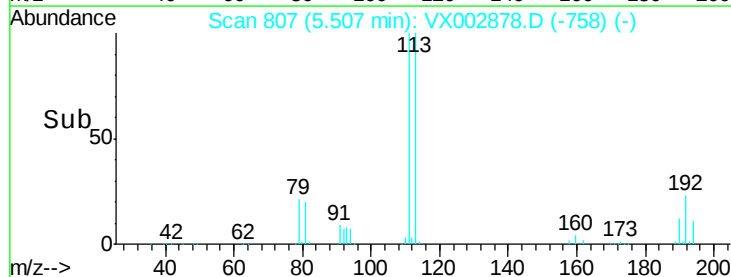
192 23.9 19.1 28.7

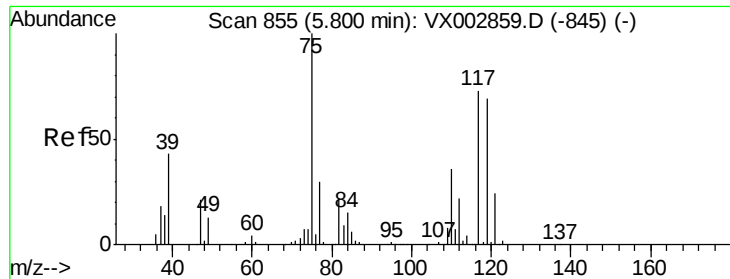


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

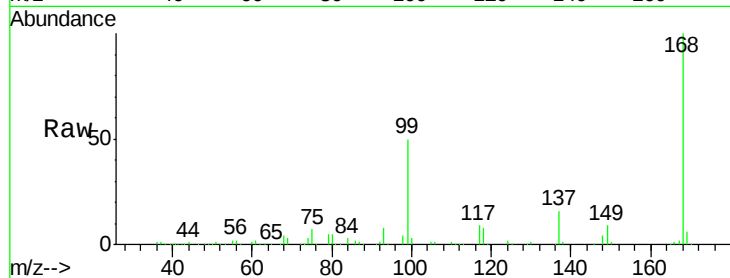




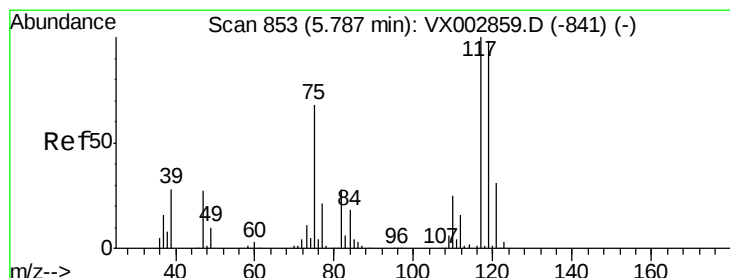
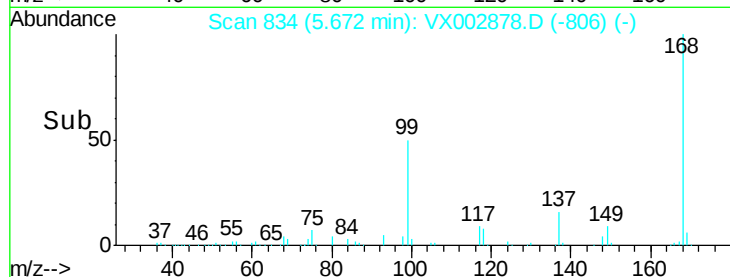
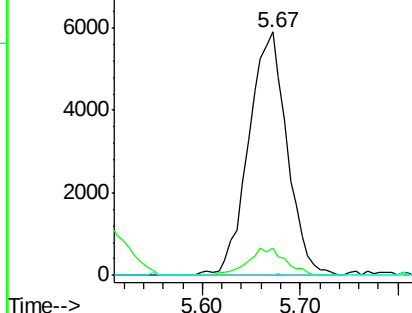
#36
 1,1-Dichloropropene
 Concen: 4.42 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.13 min
 Lab File: VX002878.D
 Acq: 25 Jun 2018 23:54

Instrument :
 MSVOA_X
 ClientSampleId :
 W-31

Tot Ion: 75 Resp: 16072
 Ion Ratio Lower Upper
 75 100
 110 11.1 18.1 54.4#
 77 0.1 24.3 36.5#

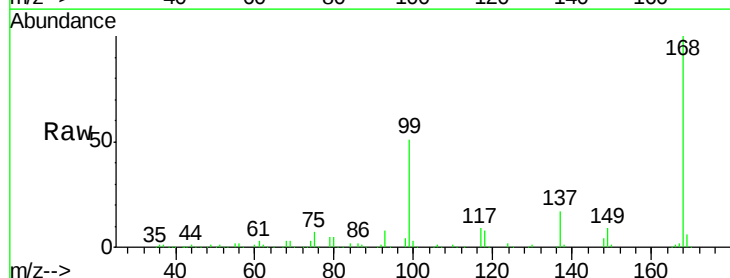


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

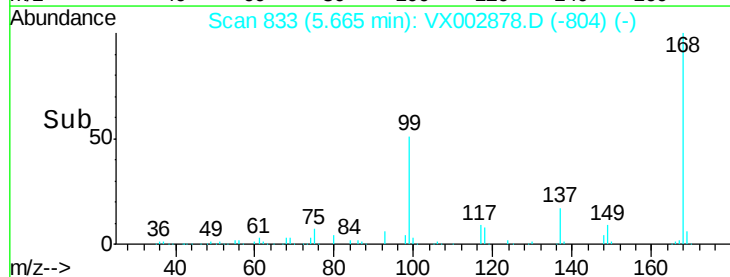
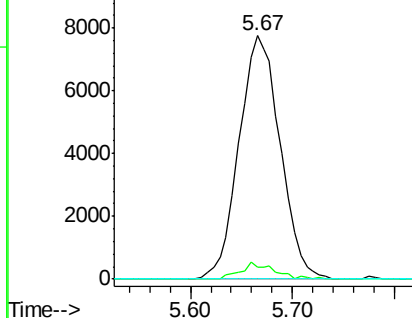


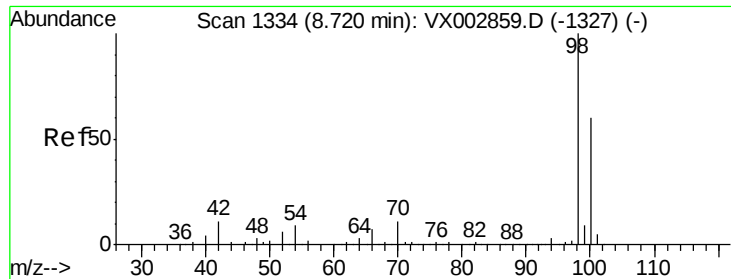
#38
 Carbon Tetrachloride
 Concen: 5.44 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.12 min
 Lab File: VX002878.D
 Acq: 25 Jun 2018 23:54

Tgt Ion: 117 Resp: 21686
 Ion Ratio Lower Upper
 117 100
 119 5.1 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

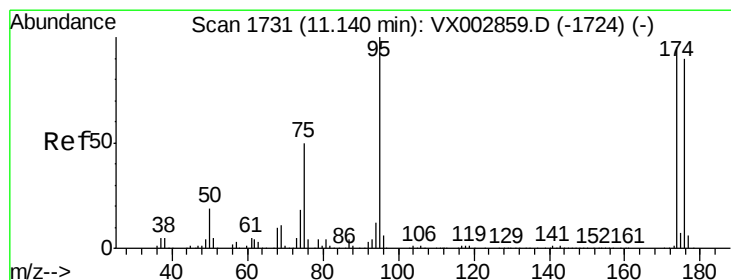
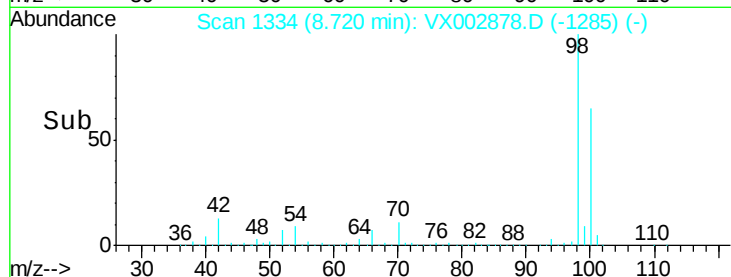
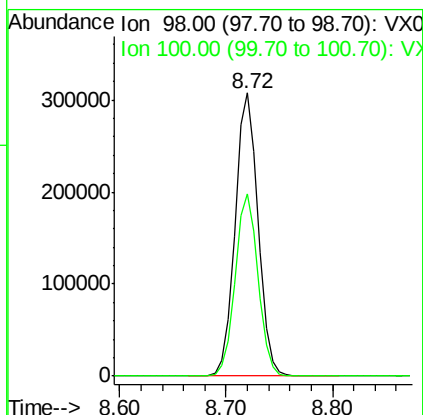
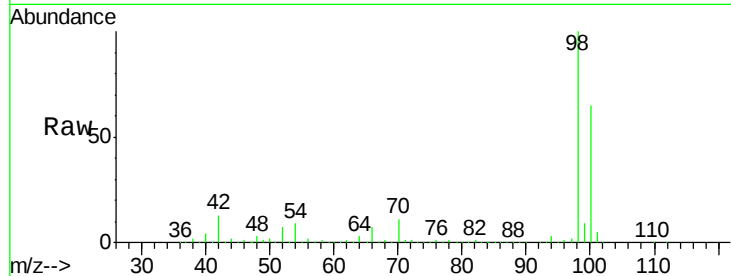




#50
Toluene-d8
Concen: 48.54 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX002878.D
Acq: 25 Jun 2018 23:54

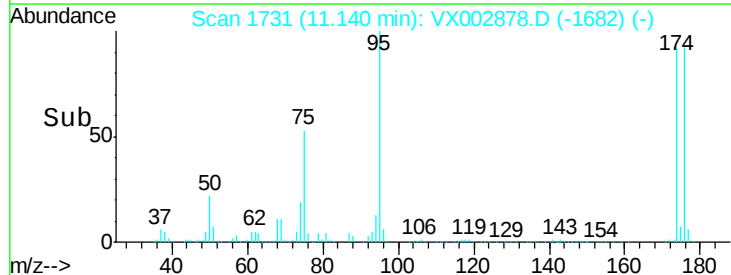
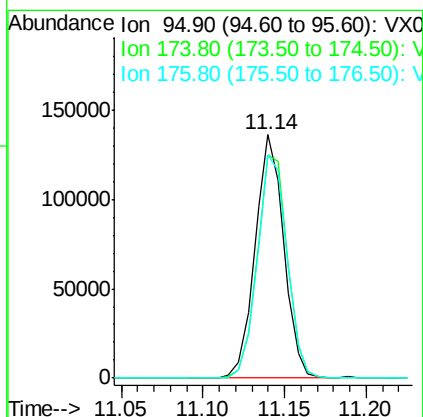
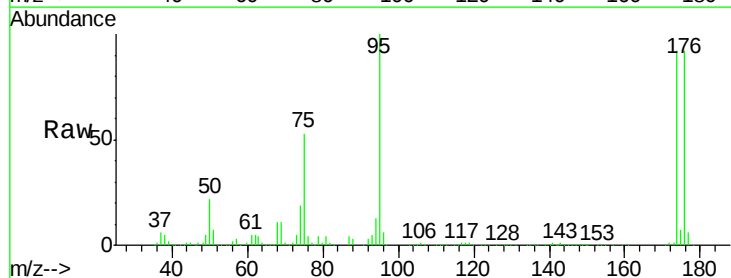
Instrument :
MSVOA_X
ClientSampleId :
W-31

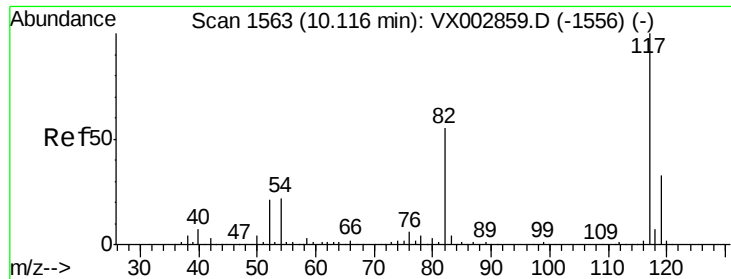
Tot Ion: 98 Resp: 465133
Ion Ratio Lower Upper
98 100
100 64.1 50.9 76.3



#62
4-Bromofluorobenzene
Concen: 45.15 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX002878.D
Acq: 25 Jun 2018 23:54

Tgt Ion: 95 Resp: 166852
Ion Ratio Lower Upper
95 100
174 96.7 0.0 187.4
176 94.5 0.0 181.0

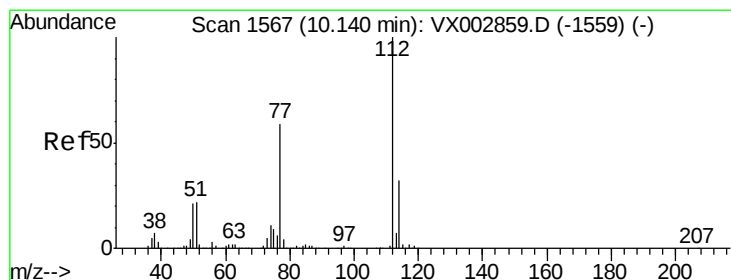
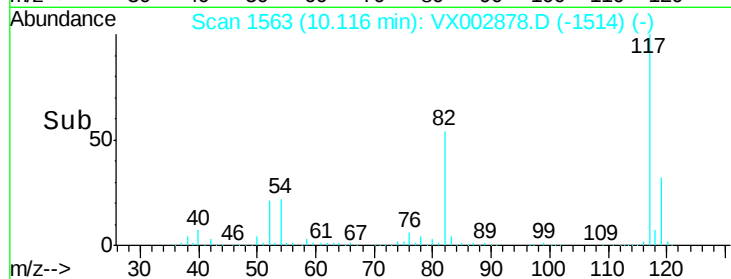
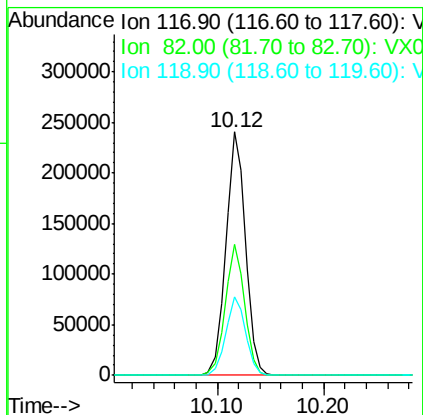
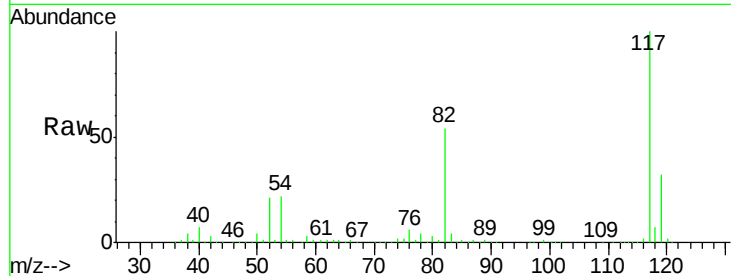




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX002878.D
Acq: 25 Jun 2018 23:54

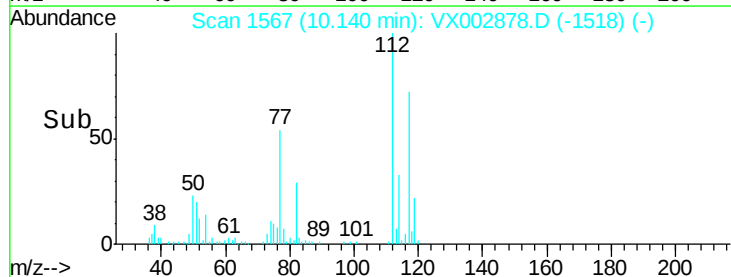
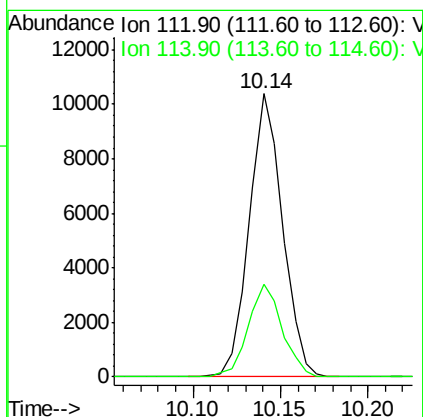
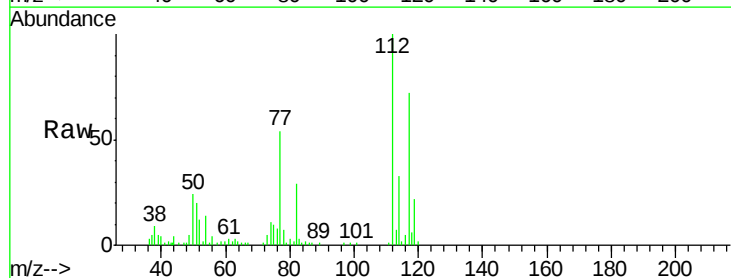
Instrument :
MSVOA_X
ClientSampled :
W-31

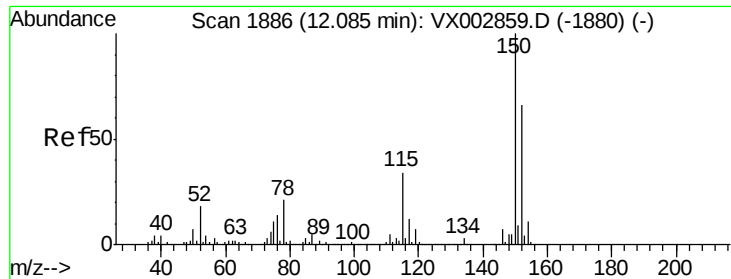
Tot Ion:117 Resp: 310196
Ion Ratio Lower Upper
117 100
82 54.0 45.0 67.4
119 32.5 25.8 38.6



#65
Chlorobenzene
Concen: 1.74 ug/l
RT: 10.14 min Scan# 1567
Delta R.T. -0.00 min
Lab File: VX002878.D
Acq: 25 Jun 2018 23:54

Tgt Ion:112 Resp: 13733
Ion Ratio Lower Upper
112 100
114 32.6 25.3 37.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX002878.D

Acq: 25 Jun 2018 23:54

Instrument :

MSVOA_X

ClientSampled :

W-31

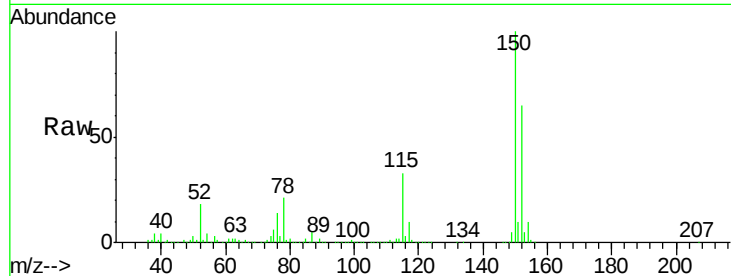
Tot Ion:152 Resp: 179290

Ion Ratio Lower Upper

152 100

115 54.1 40.1 120.2

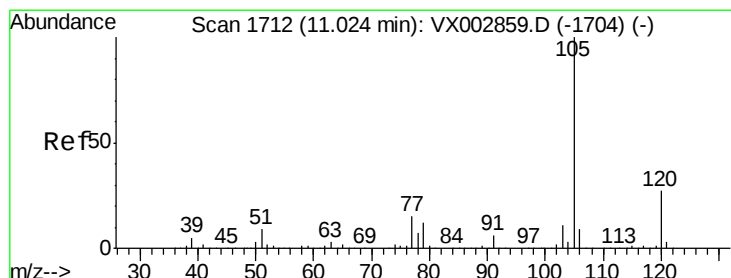
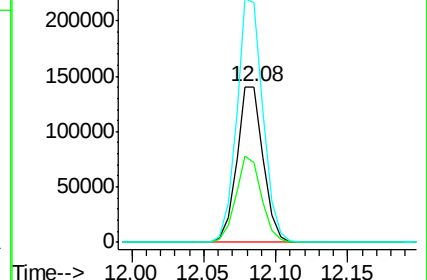
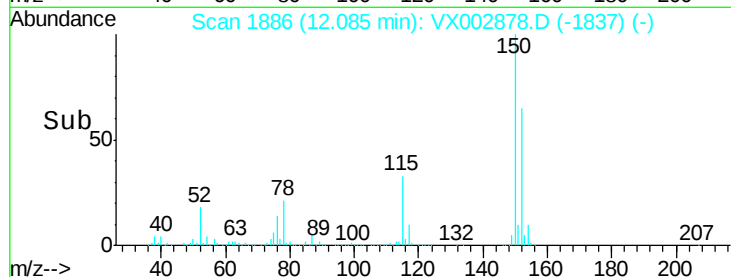
150 156.0 0.0 347.2



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



#73

Isopropylbenzene

Concen: 0.21 ug/l

RT: 11.02 min Scan# 1712

Delta R.T. -0.00 min

Lab File: VX002878.D

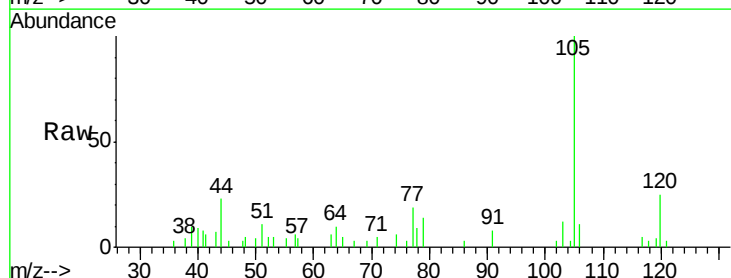
Acq: 25 Jun 2018 23:54

Tgt Ion:105 Resp: 2474

Ion Ratio Lower Upper

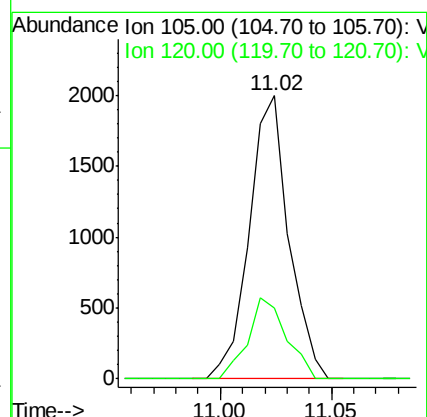
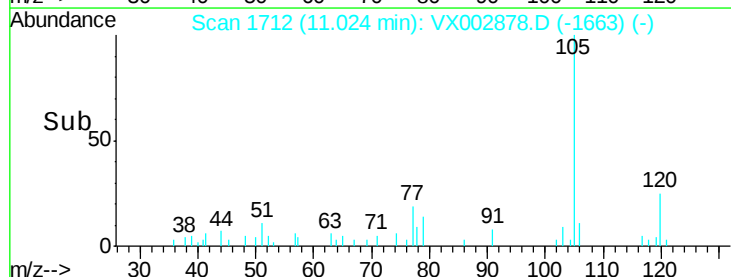
105 100

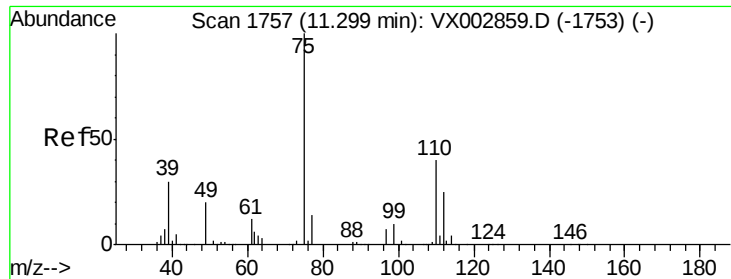
120 27.9 13.5 40.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#76

1,2,3-Trichloropropane

Concen: 26.81 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002878.D

Acq: 25 Jun 2018 23:54

Instrument :

MSVOA_X

ClientSampled :

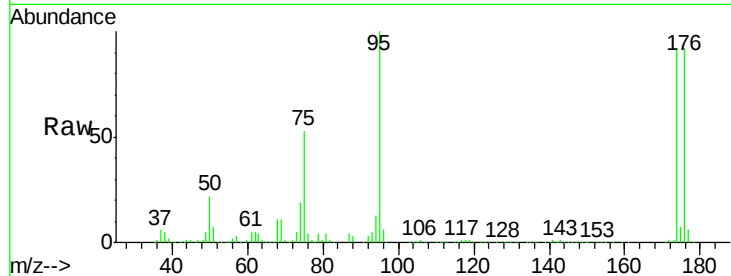
W-31

Tot Ion: 75 Resp: 87084

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

11.14

80000

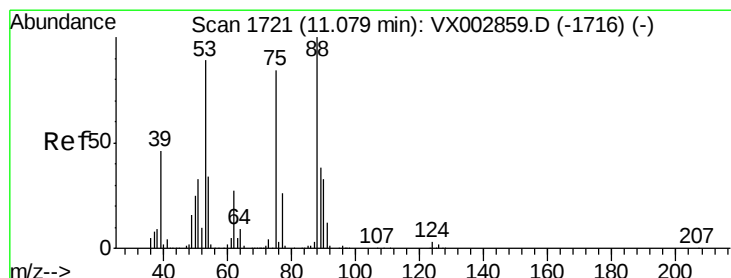
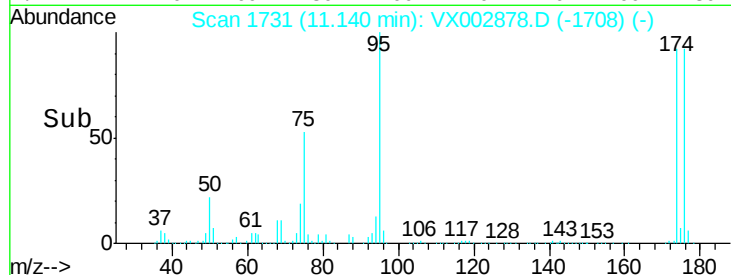
60000

40000

20000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 75.93 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002878.D

Acq: 25 Jun 2018 23:54

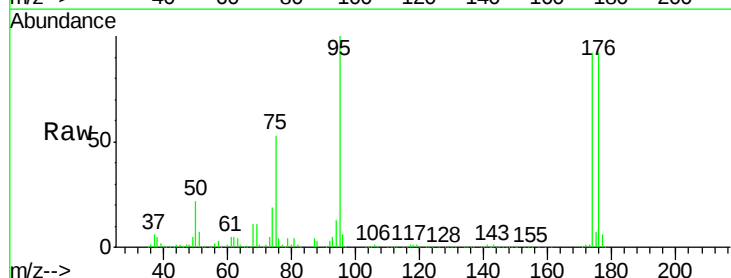
Tgt Ion: 75 Resp: 87084

Ion Ratio Lower Upper

75 100

53 0.1 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

100000

80000

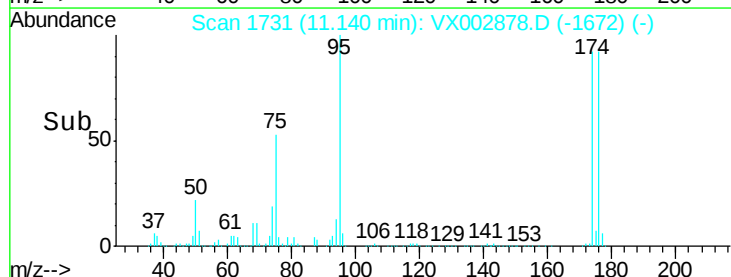
60000

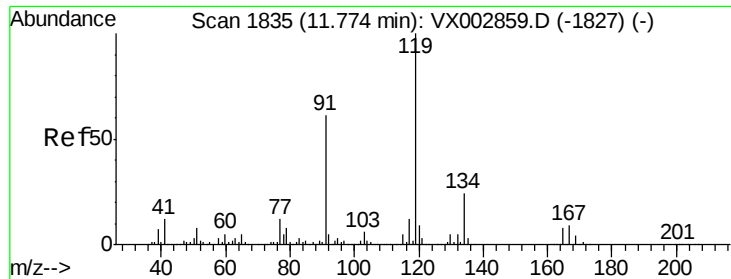
40000

20000

0

Time-->

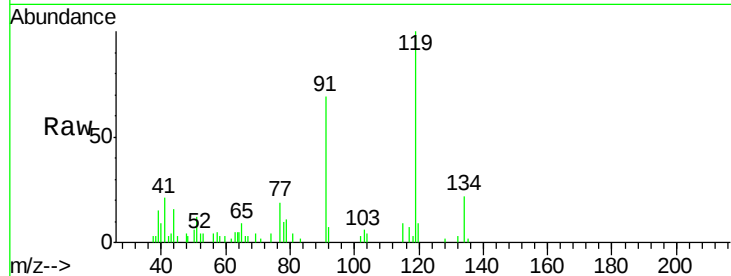




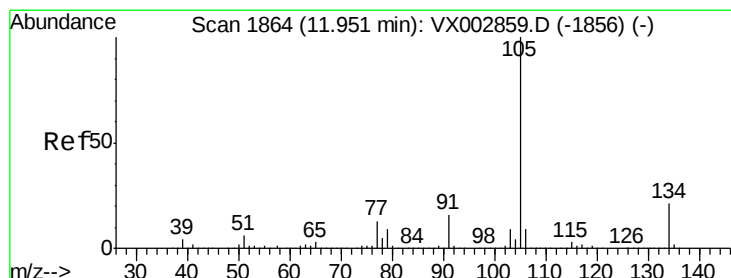
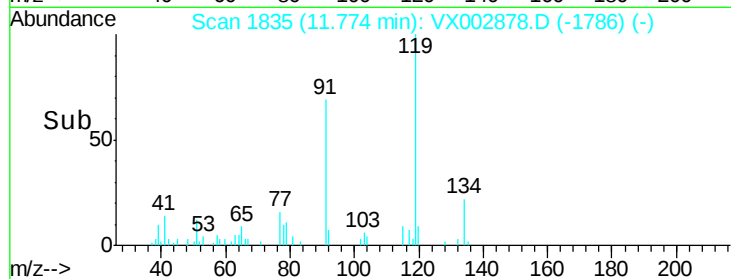
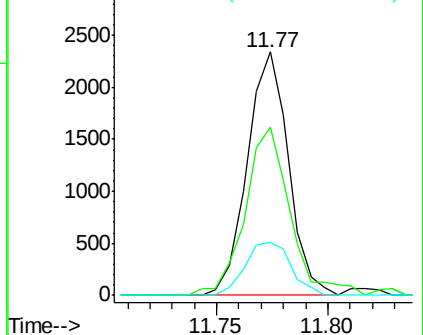
#83
tert-Butylbenzene
Concen: 0.30 ug/l
RT: 11.77 min Scan# 1835
Delta R.T. -0.00 min
Lab File: VX002878.D
Acq: 25 Jun 2018 23:54

Instrument :
MSVOA_X
ClientSampleId :
W-31

Tot Ion:119 Resp: 3016
Ion Ratio Lower Upper
119 100
91 75.5 30.3 90.9
134 24.2 11.7 35.1

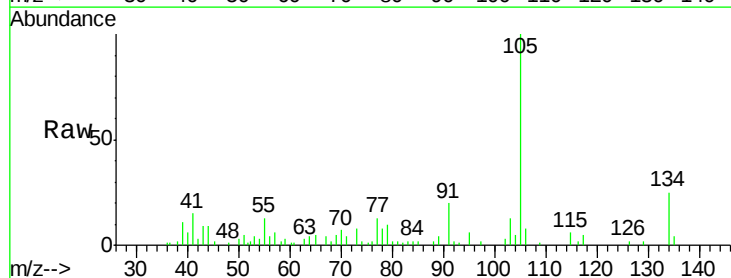


Abundance Ion 119.00 (118.70 to 119.70): V
Ion 91.00 (90.70 to 91.70): V
Ion 134.00 (133.70 to 134.70): V

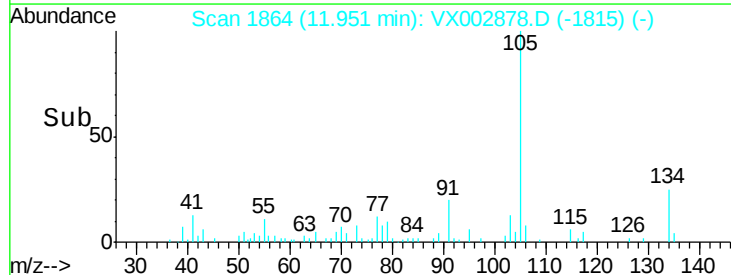
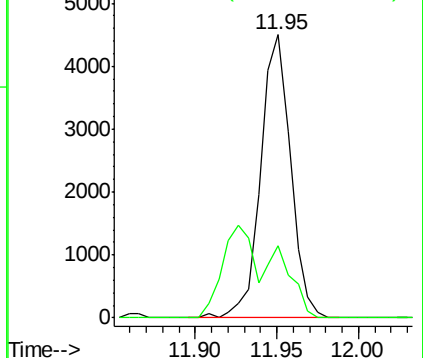


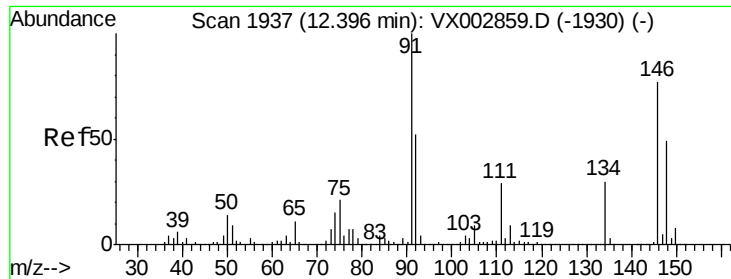
#85
sec-Butylbenzene
Concen: 0.47 ug/l
RT: 11.95 min Scan# 1864
Delta R.T. -0.00 min
Lab File: VX002878.D
Acq: 25 Jun 2018 23:54

Tgt Ion:105 Resp: 5747
Ion Ratio Lower Upper
105 100
134 0.0 10.4 31.1#



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 134.00 (133.70 to 134.70): V





#91

1,2-Dichlorobenzene

Concen: 0.28 ug/l

RT: 12.40 min Scan# 1937

Delta R.T. -0.00 min

Lab File: VX002878.D

Acq: 25 Jun 2018 23:54

Instrument :

MSVOA_X

ClientSampleId :

W-31

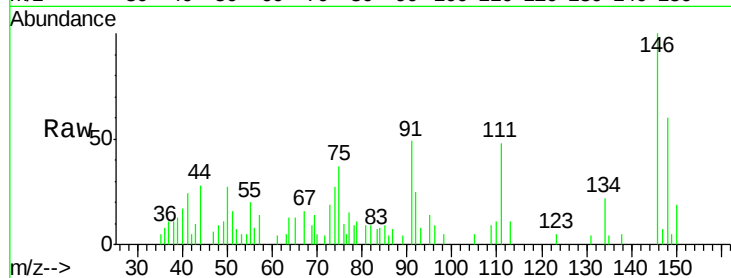
Tot Ion:146 Resp: 1743

Ion Ratio Lower Upper

146 100

111 46.4 19.4 58.1

148 68.9 31.7 95.1



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

