

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061818\
 Data File : VX002692.D
 Acq On : 18 Jun 2018 21:54
 Operator : JC/MD
 Sample : VX0618WBL02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 19 05:09:18 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X061518W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 16 01:37:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	207068	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	295517	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	272742	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	146003	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	158112	50.25	ug/l	0.00
Spiked Amount			Recovery	=	100.50%	
35) Dibromofluoromethane	5.51	113	123576	52.40	ug/l	0.00
Spiked Amount			Recovery	=	104.80%	
50) Toluene-d8	8.72	98	466622	52.11	ug/l	0.00
Spiked Amount			Recovery	=	104.22%	
62) 4-Bromofluorobenzene	11.14	95	160356	47.25	ug/l	0.00
Spiked Amount			Recovery	=	94.50%	

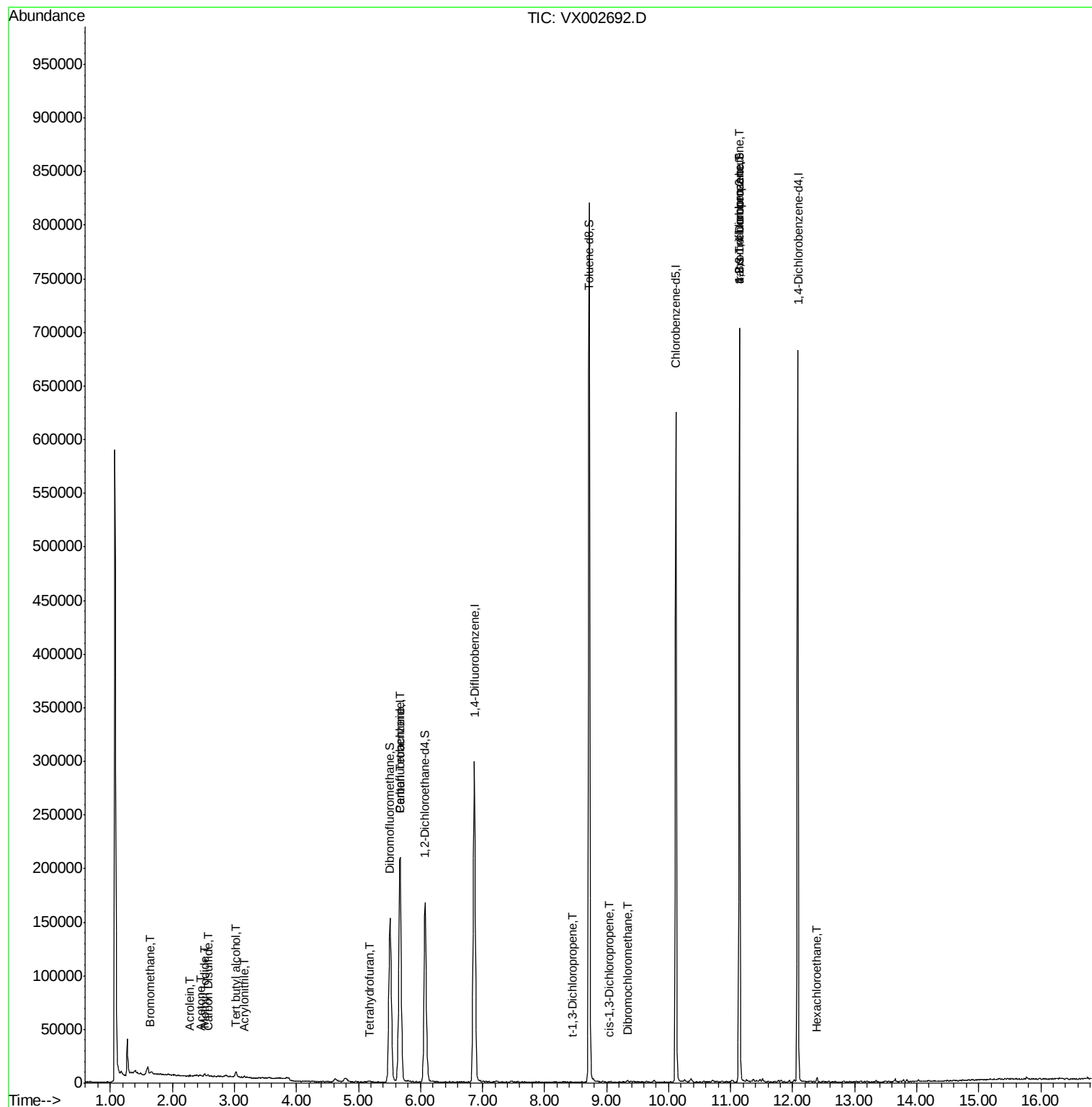
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	1791	1.09	ug/l	90
10) Methyl Iodide	2.52	142	2679	5.90	ug/l #	90
11) Tert butyl alcohol	3.03	59	2929	4.50	ug/l #	83
13) Acrolein	2.29	56	217	7.56	ug/l #	71
15) Acrylonitrile	3.15	53	544	0.38	ug/l #	74
16) Acetone	2.46	43	826	0.59	ug/l #	55
17) Carbon Disulfide	2.57	76	1849	0.34	ug/l #	89
29) Tetrahydrofuran	5.18	42	812	0.68	ug/l #	77
38) Carbon Tetrachloride	5.67	117	19163	6.13	ug/l #	15
53) t-1,3-Dichloropropene	8.44	75	103	2.42	ug/l #	43
54) cis-1,3-Dichloropropene	9.05	75	178	3.26	ug/l #	48
60) Dibromochloromethane	9.35	129	271	3.85	ug/l #	11
76) 1,2,3-Trichloropropane	11.14	75	85985	31.21	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	85985	95.69	ug/l #	7
90) Hexachloroethane	12.39	117	60	2.67	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. -0.00 min

Lab File: VX002692.D

Acq: 18 Jun 2018 21:54

Instrument :

MSVOA_X

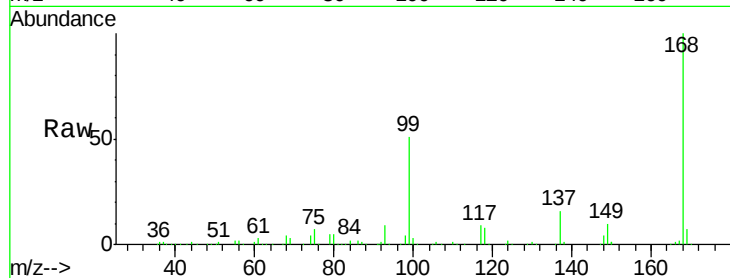
ClientSampleId :

Tot Ion:168 Resp: 207068

Ion Ratio Lower Upper

168 100

99 50.6 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

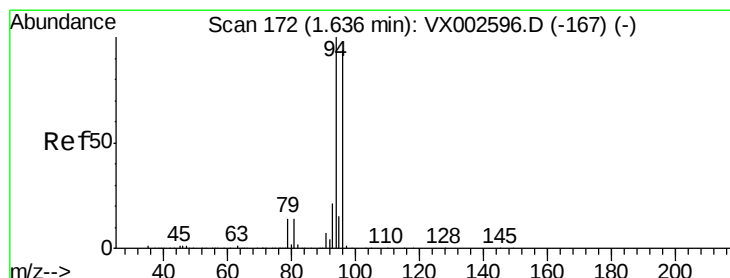
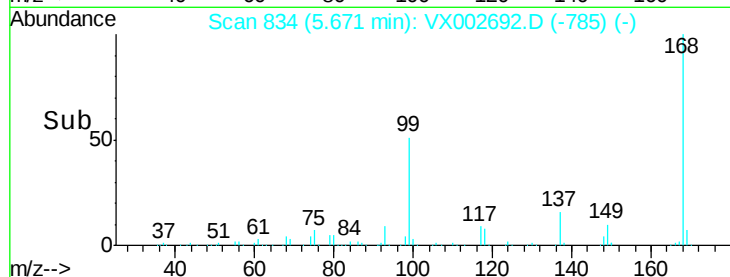
40000

20000

0

5.60 5.70 5.80

Time-->



#5

Bromomethane

Concen: 1.09 ug/l

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX002692.D

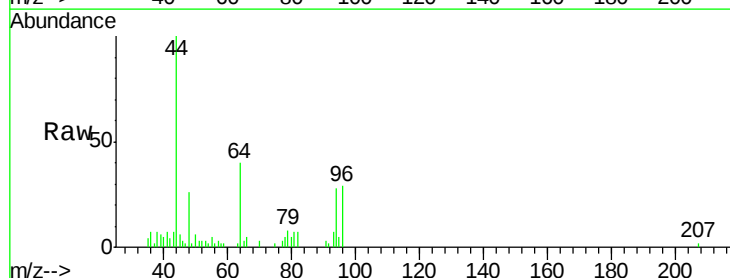
Acq: 18 Jun 2018 21:54

Tgt Ion: 94 Resp: 1791

Ion Ratio Lower Upper

94 100

96 103.2 74.9 112.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

800

600

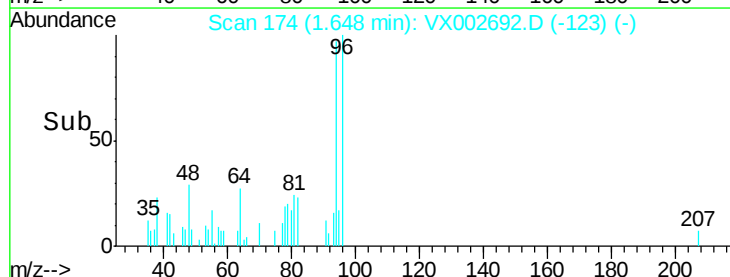
400

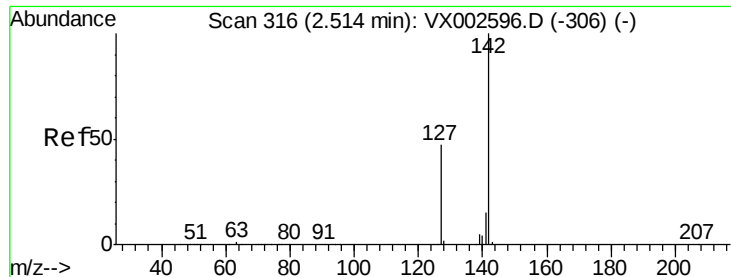
200

0

1.60 1.65 1.70

Time-->

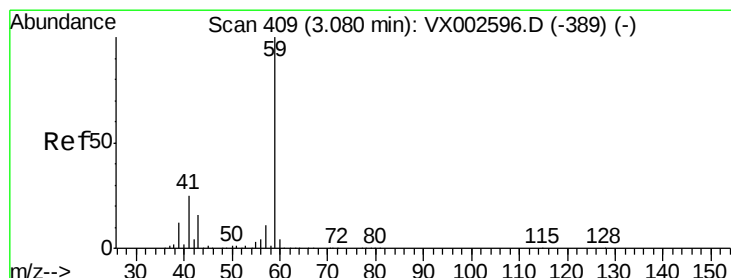
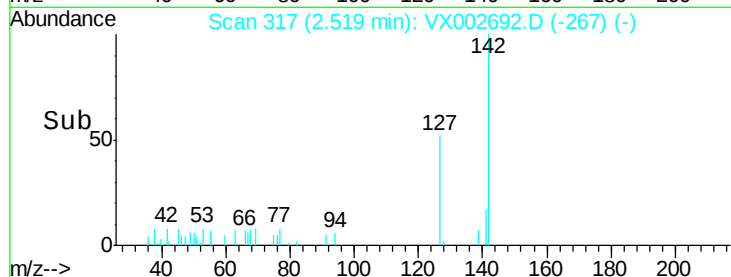
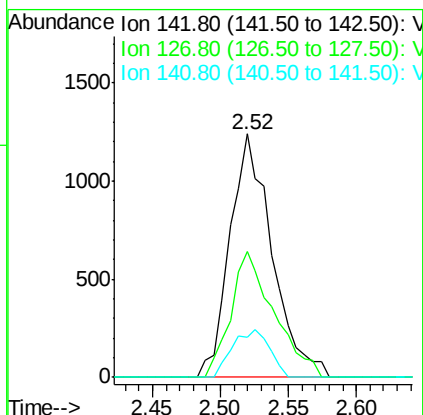
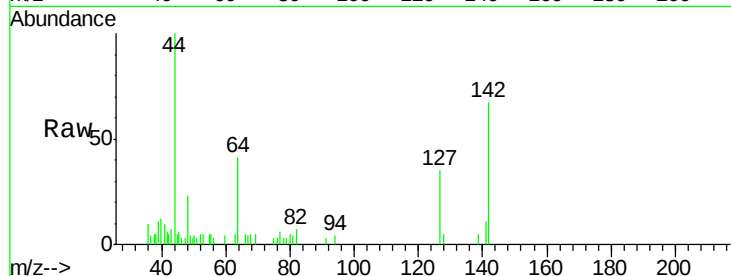




#10
Methyl Iodide
Concen: 5.90 ug/l
RT: 2.52 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX002692.D
Acq: 18 Jun 2018 21:54

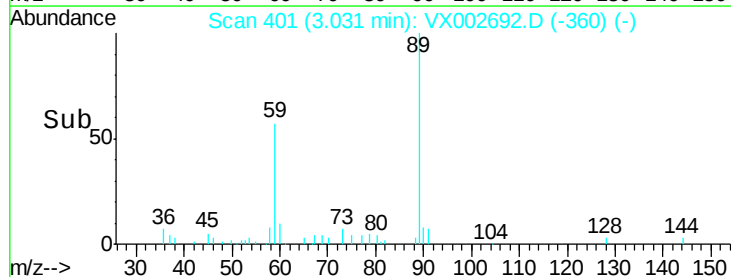
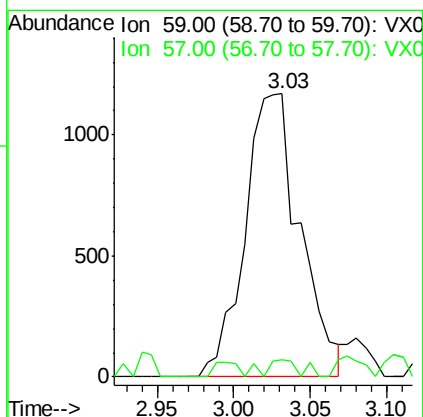
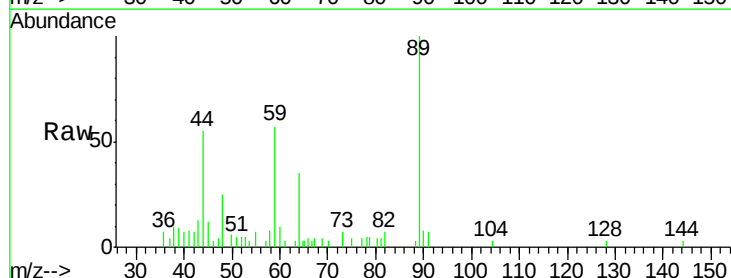
Instrument :
MSVOA_X
ClientSampleId :

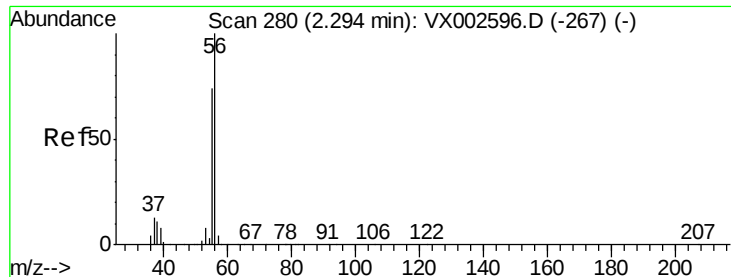
Tot Ion:142 Resp: 2679
Ion Ratio Lower Upper
142 100
127 52.9 36.6 55.0
141 17.2 11.3 16.9#



#11
Tert butyl alcohol
Concen: 4.50 ug/l
RT: 3.03 min Scan# 401
Delta R.T. -0.05 min
Lab File: VX002692.D
Acq: 18 Jun 2018 21:54

Tgt Ion: 59 Resp: 2929
Ion Ratio Lower Upper
59 100
57 4.0 8.2 12.2#





#13

Acrolein

Concen: 7.56 ug/l

RT: 2.29 min Scan# 279

Delta R.T. -0.01 min

Lab File: VX002692.D

Acq: 18 Jun 2018 21:54

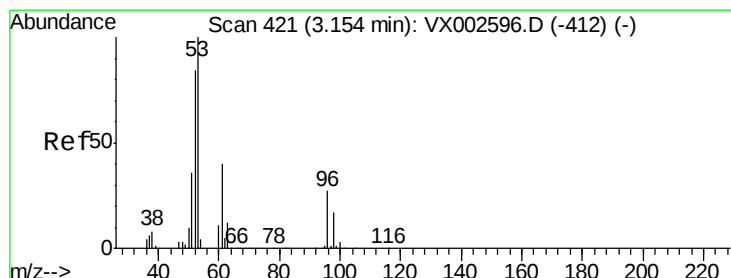
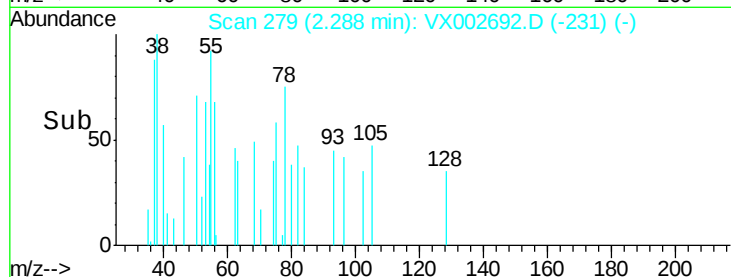
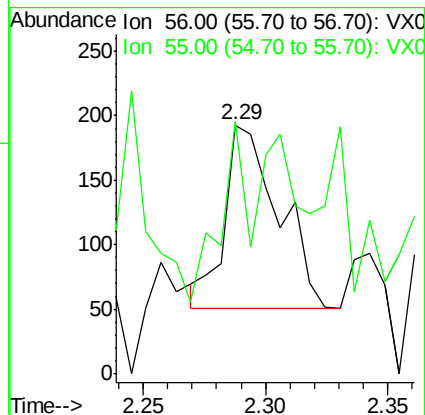
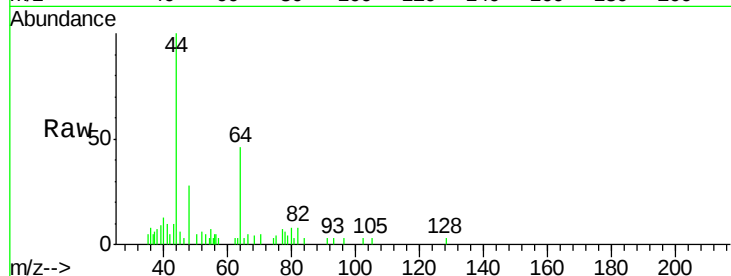
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 56 Resp: 217

Ion Ratio Lower Upper

56 100

55 47.0 57.0 85.4#



#15

Acrylonitrile

Concen: 0.38 ug/l

RT: 3.15 min Scan# 421

Delta R.T. -0.00 min

Lab File: VX002692.D

Acq: 18 Jun 2018 21:54

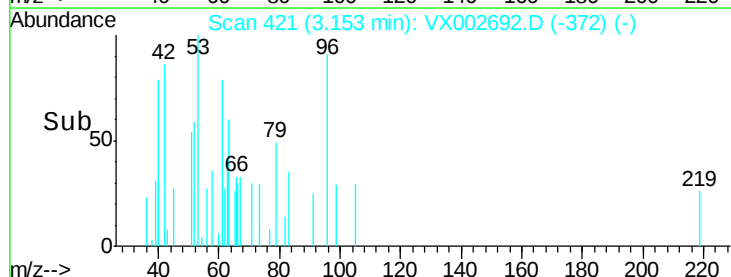
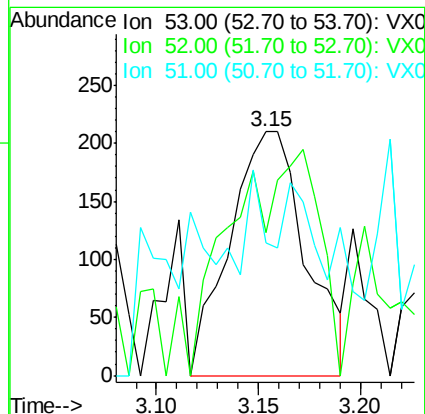
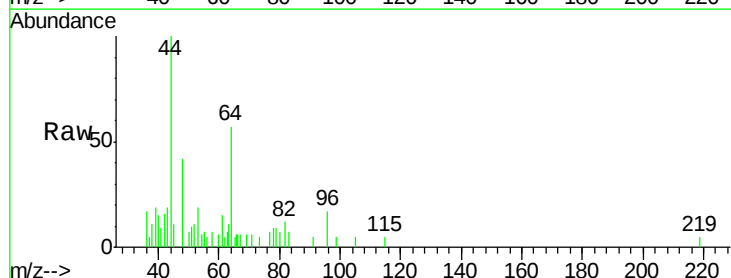
Tgt Ion: 53 Resp: 544

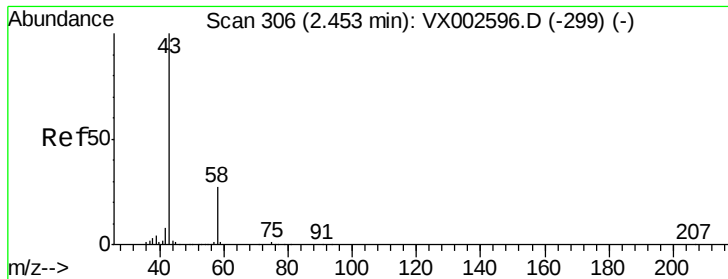
Ion Ratio Lower Upper

53 100

52 55.9 66.7 100.1#

51 27.0 29.9 44.9#





#16

Acetone

Concen: 0.59 ug/l

RT: 2.46 min Scan# 307

Delta R.T. 0.01 min

Lab File: VX002692.D

Acq: 18 Jun 2018 21:54

Instrument :

MSVOA_X

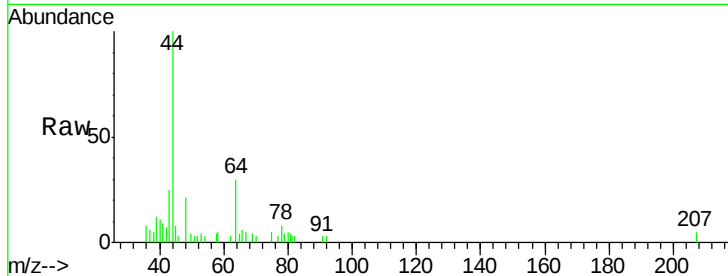
ClientSampleId :

Tot Ion: 43 Resp: 826

Ion Ratio Lower Upper

43 100

58 51.2 22.1 33.1#



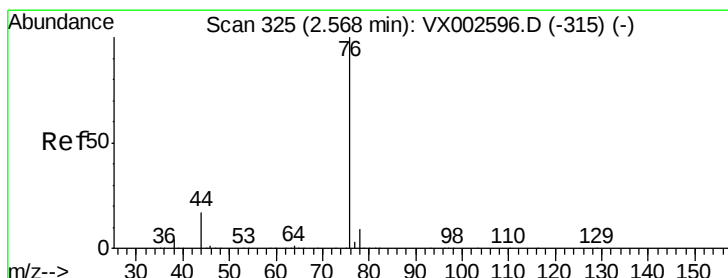
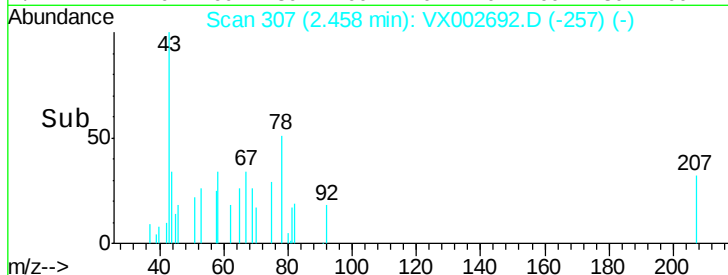
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.46

2.40 2.45 2.50

Time-->



#17

Carbon Disulfide

Concen: 0.34 ug/l

RT: 2.57 min Scan# 326

Delta R.T. 0.01 min

Lab File: VX002692.D

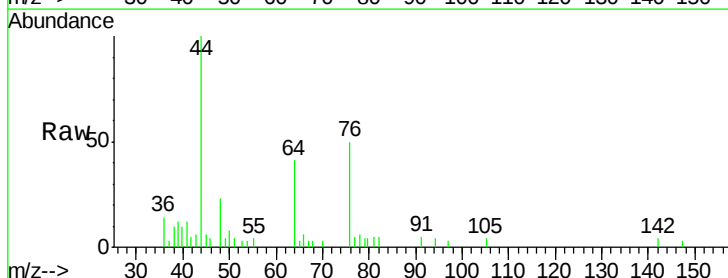
Acq: 18 Jun 2018 21:54

Tgt Ion: 76 Resp: 1849

Ion Ratio Lower Upper

76 100

78 4.5 6.9 10.3#



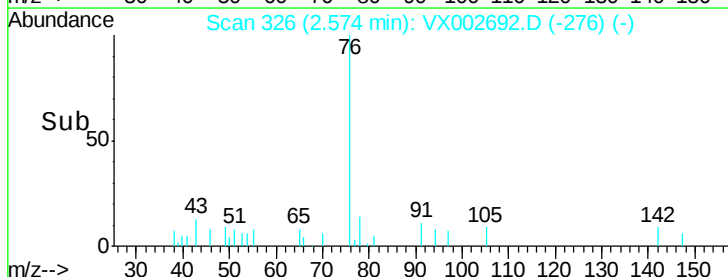
Abundance Ion 75.90 (75.60 to 76.60): VX0

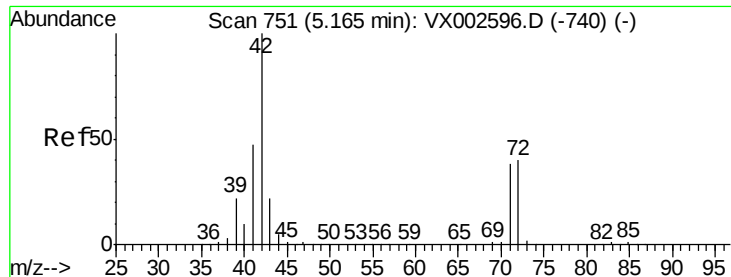
Ion 77.90 (77.60 to 78.60): VX0

2.57

2.50 2.55 2.60 2.65

Time-->





#29

Tetrahydrofuran

Concen: 0.68 ug/l

RT: 5.18 min Scan# 753

Delta R.T. 0.01 min

Lab File: VX002692.D

Acq: 18 Jun 2018 21:54

Instrument :

MSVOA_X

ClientSampleId :

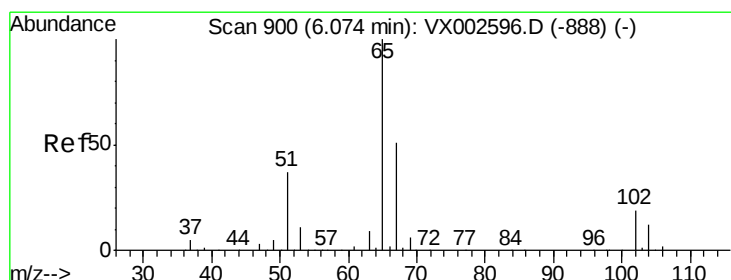
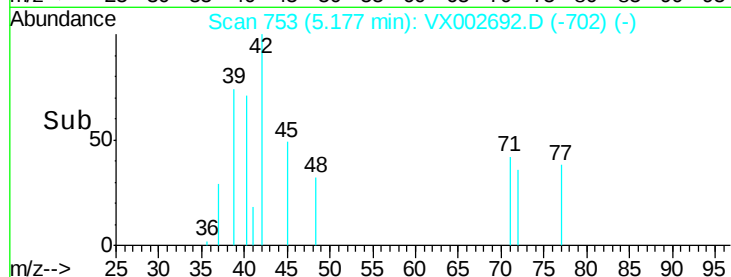
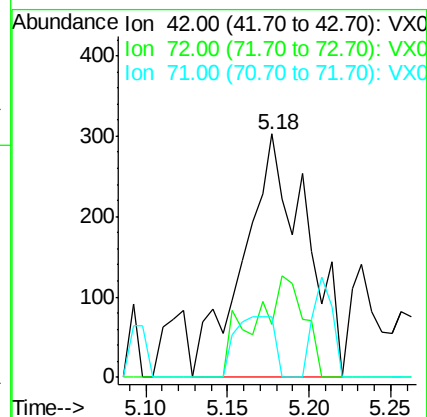
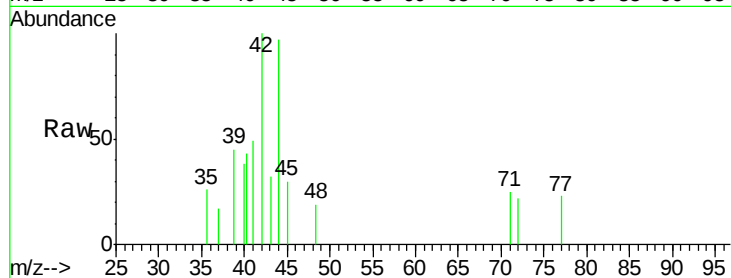
Tot Ion: 42 Resp: 812

Ion Ratio Lower Upper

42 100

72 33.5 32.0 48.0

71 15.8 30.1 45.1#



#33

1,2-Dichloroethane-d4

Concen: 50.25 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.00 min

Lab File: VX002692.D

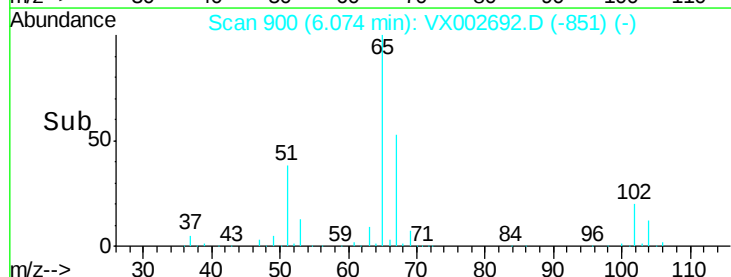
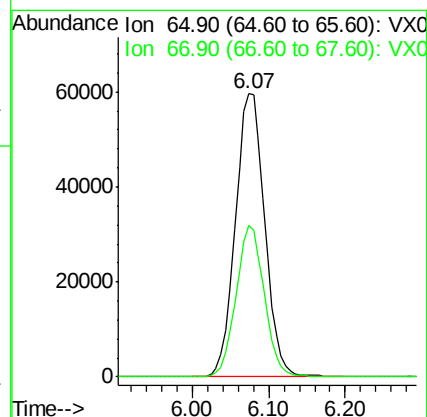
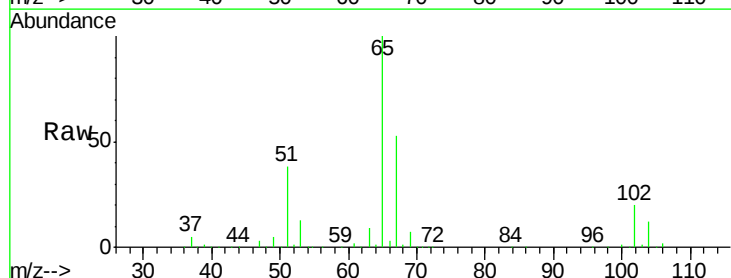
Acq: 18 Jun 2018 21:54

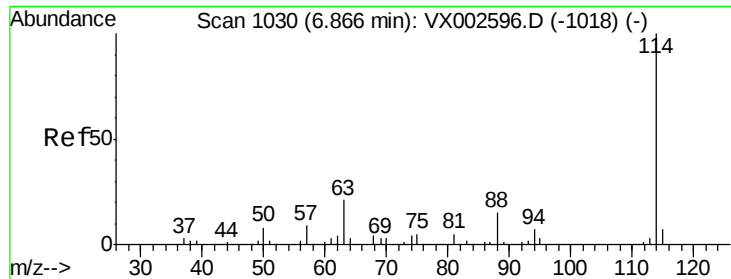
Tgt Ion: 65 Resp: 158112

Ion Ratio Lower Upper

65 100

67 51.5 0.0 102.6

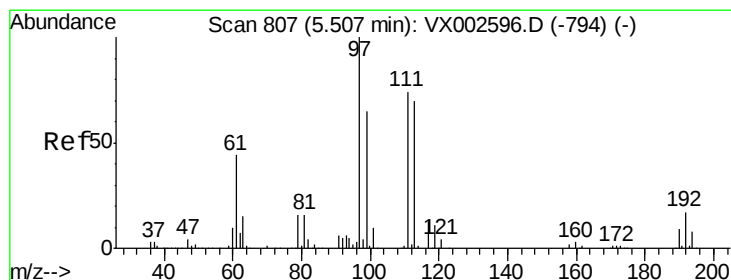
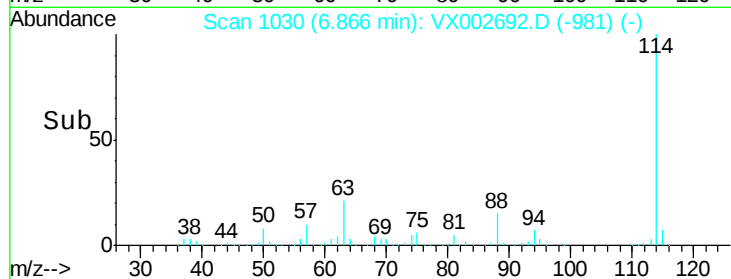
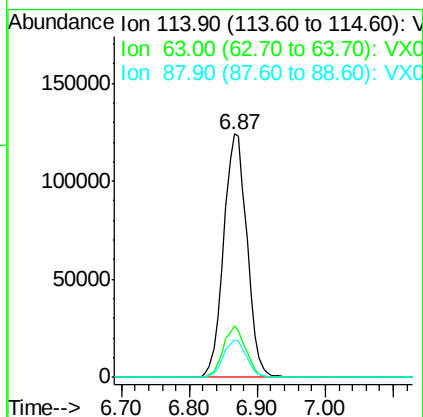
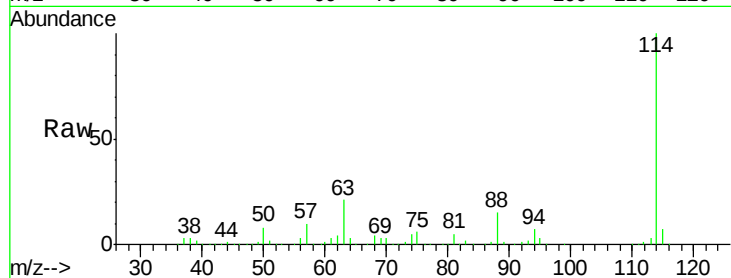




#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX002692.D
 Acq: 18 Jun 2018 21:54

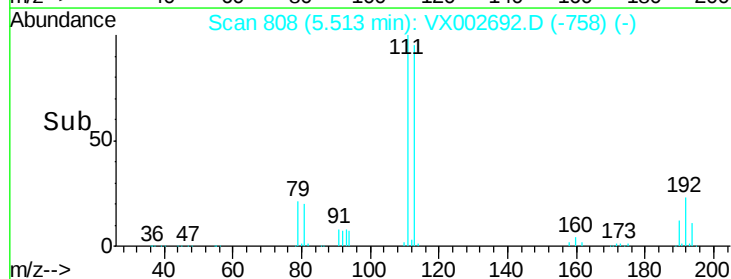
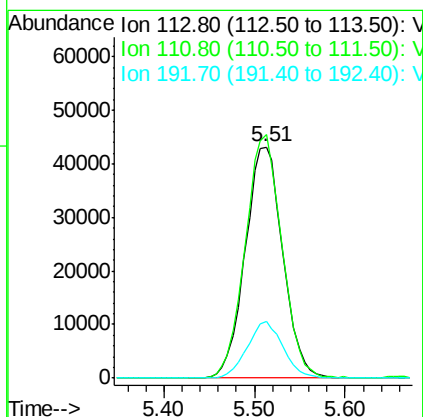
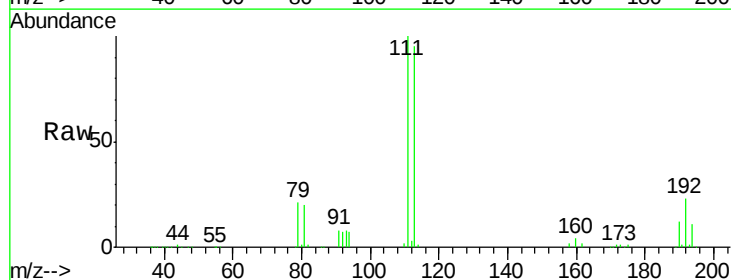
Instrument :
 MSVOA_X
 ClientSampleId :

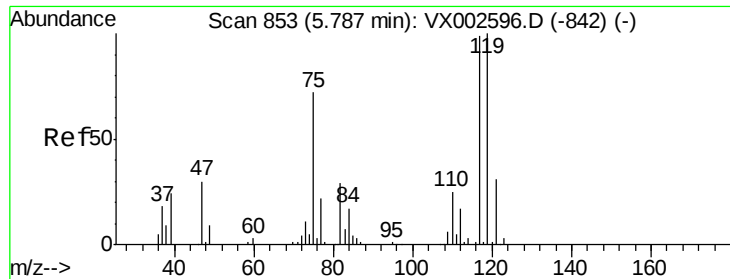
Tot Ion	Ratio	Lower	Upper
114	100		
63	21.3	0.0	41.4
88	15.2	0.0	30.0



#35
 Dibromofluoromethane
 Concen: 52.40 ug/l
 RT: 5.51 min Scan# 808
 Delta R.T. 0.01 min
 Lab File: VX002692.D
 Acq: 18 Jun 2018 21:54

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.2	81.4	122.0
192	23.5	19.1	28.7





#38

Carbon Tetrachloride

Concen: 6.13 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

Lab File: VX002692.D

Acq: 18 Jun 2018 21:54

Instrument :

MSVOA_X

ClientSampleId :

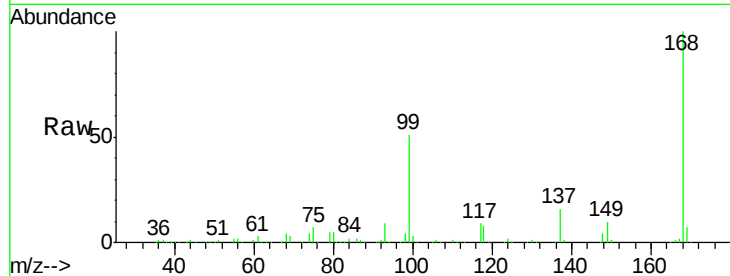
Tot Ion:117 Resp: 19163

Ion Ratio Lower Upper

117 100

119 4.3 77.4 116.0#

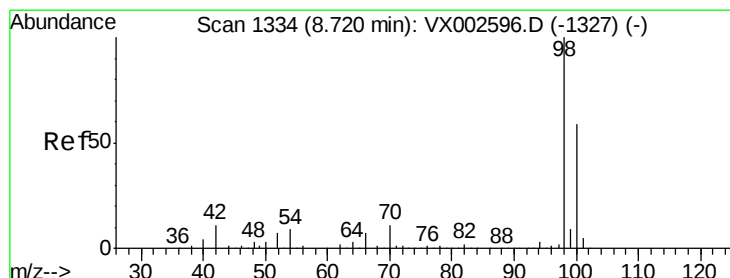
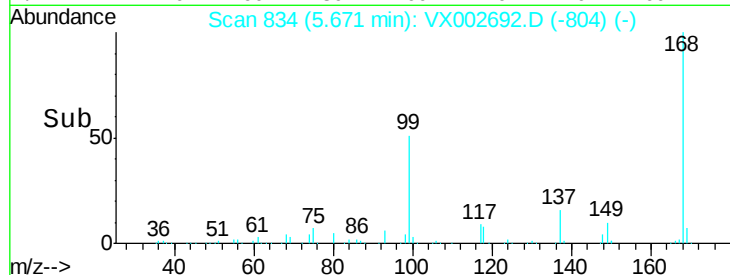
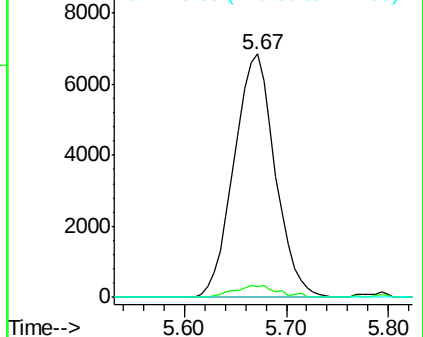
121 0.0 24.4 36.6#



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: 52.11 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX002692.D

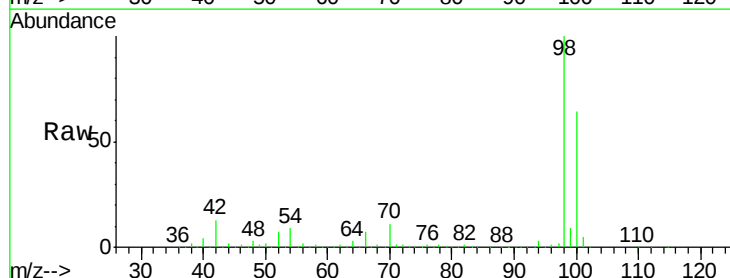
Acq: 18 Jun 2018 21:54

Tgt Ion: 98 Resp: 466622

Ion Ratio Lower Upper

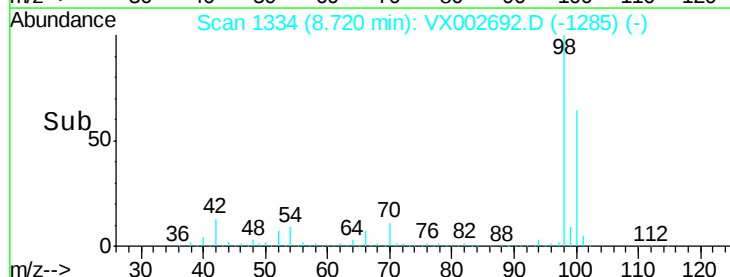
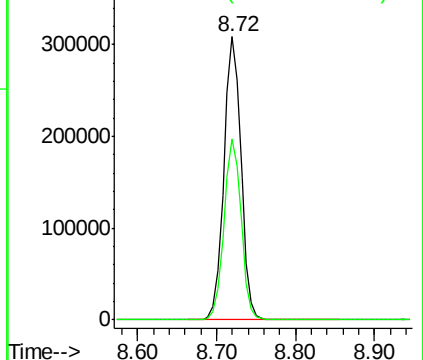
98 100

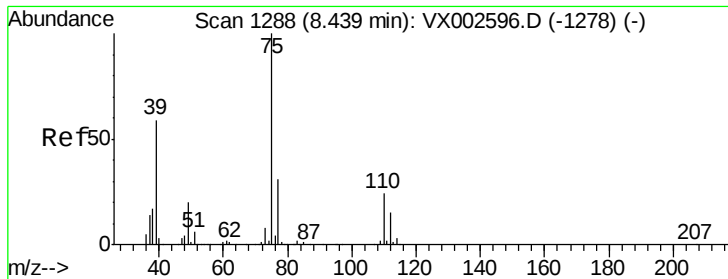
100 63.8 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#53

t-1,3-Dichloropropene

Concen: 2.42 ug/l

RT: 8.44 min Scan# 1288

Delta R.T. 0.00 min

Lab File: VX002692.D

Acq: 18 Jun 2018 21:54

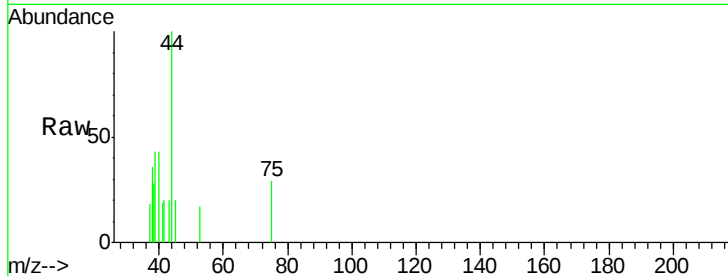
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 75 Resp: 103

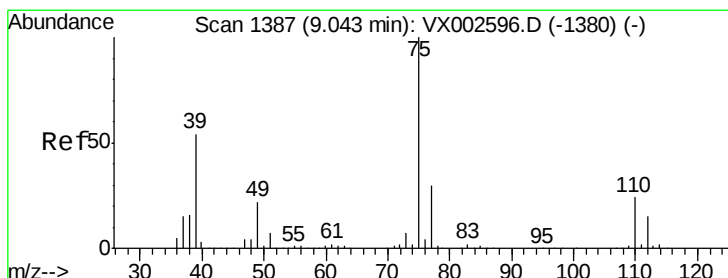
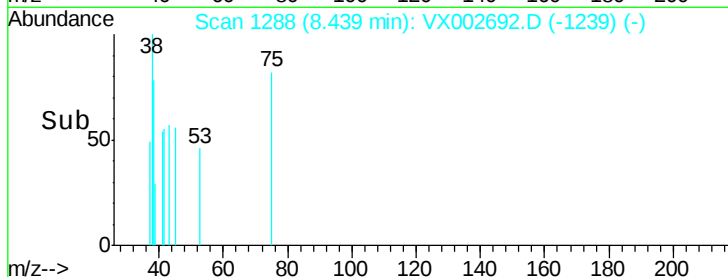
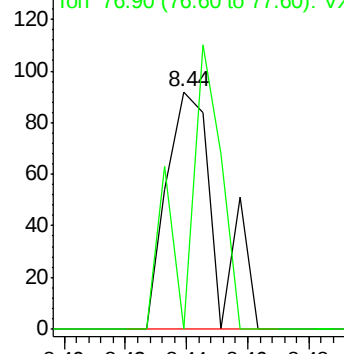
Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 76.90 (76.60 to 77.60): VX0



#54

cis-1,3-Dichloropropene

Concen: 3.26 ug/l

RT: 9.05 min Scan# 1388

Delta R.T. 0.01 min

Lab File: VX002692.D

Acq: 18 Jun 2018 21:54

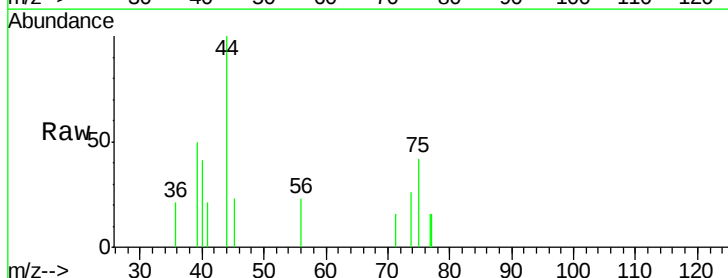
Tgt Ion: 75 Resp: 178

Ion Ratio Lower Upper

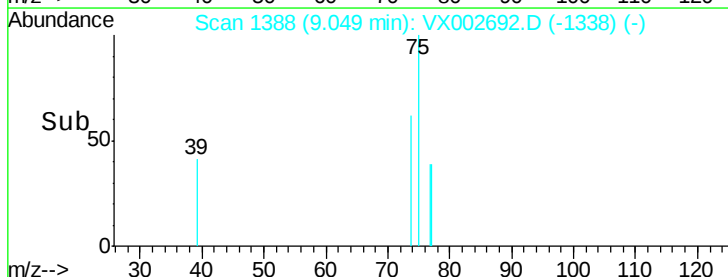
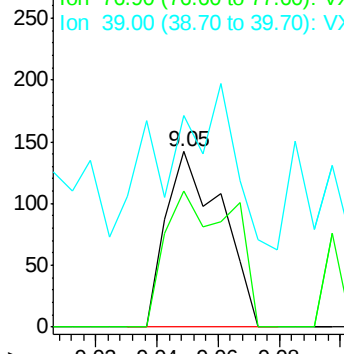
75 100

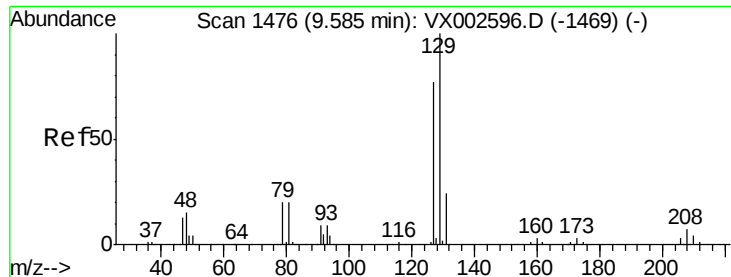
77 77.5 24.8 37.2#

39 76.8 42.4 63.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 76.90 (76.60 to 77.60): VX0
Ion 39.00 (38.70 to 39.70): VX0

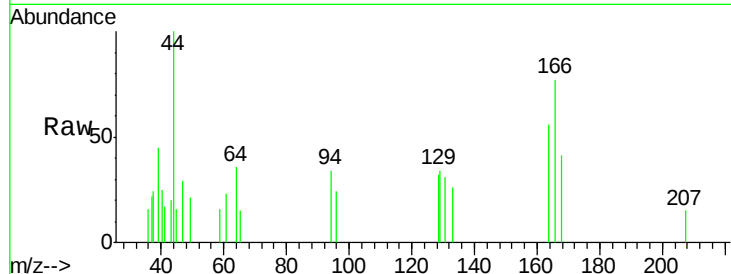




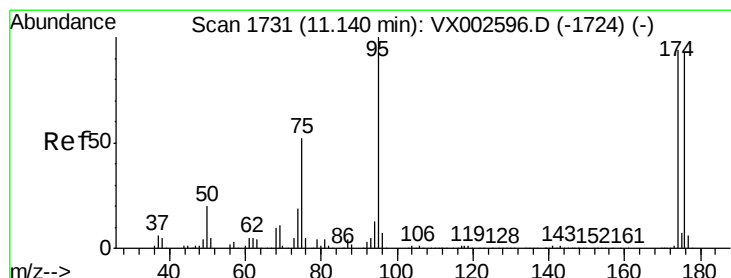
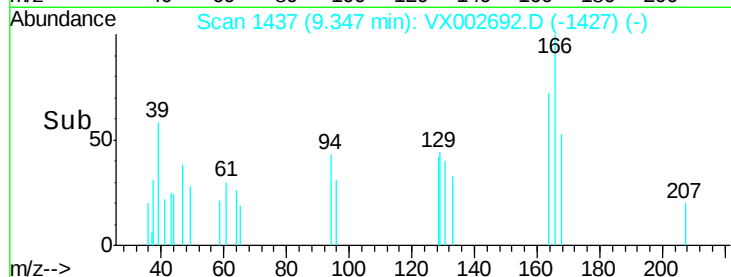
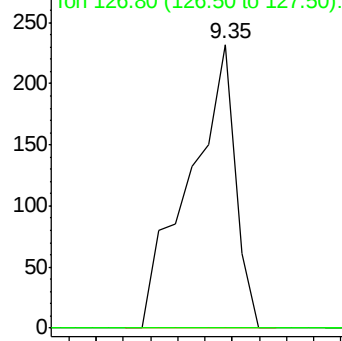
#60
Dibromochloromethane
Concen: 3.85 ug/l
RT: 9.35 min Scan# 1437
Delta R.T. -0.24 min
Lab File: VX002692.D
Acq: 18 Jun 2018 21:54

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:129 Resp: 271
Ion Ratio Lower Upper
129 100
127 0.0 38.5 115.3#

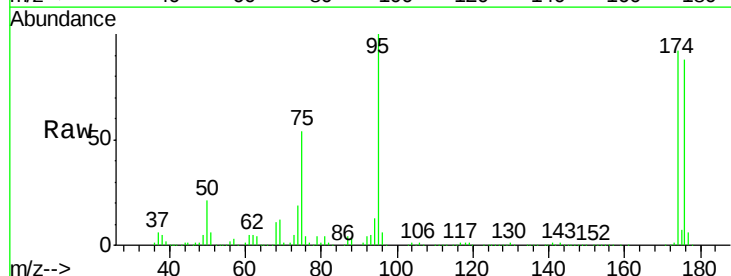


Abundance Ion 128.80 (128.50 to 129.50): V
Ion 126.80 (126.50 to 127.50): V

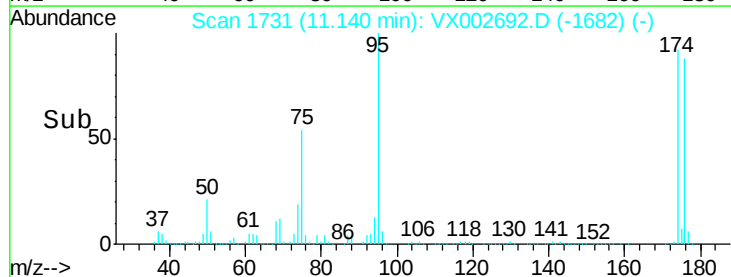
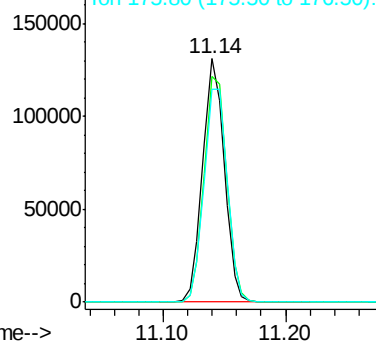


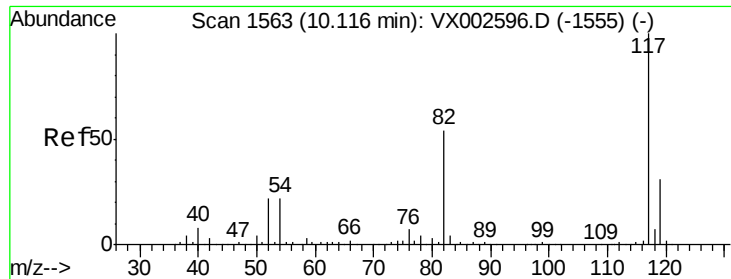
#62
4-Bromofluorobenzene
Concen: 47.25 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. -0.00 min
Lab File: VX002692.D
Acq: 18 Jun 2018 21:54

Tgt Ion: 95 Resp: 160356
Ion Ratio Lower Upper
95 100
174 97.0 0.0 187.4
176 94.0 0.0 181.0



Abundance Ion 94.90 (94.60 to 95.60): VX0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

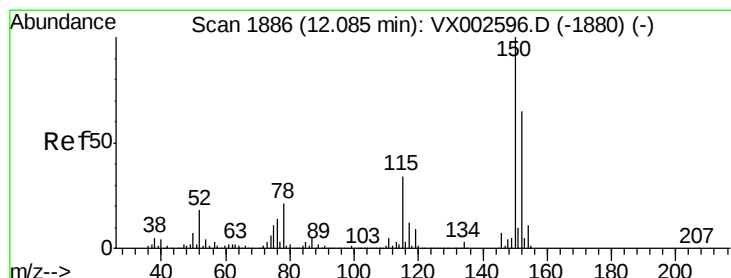
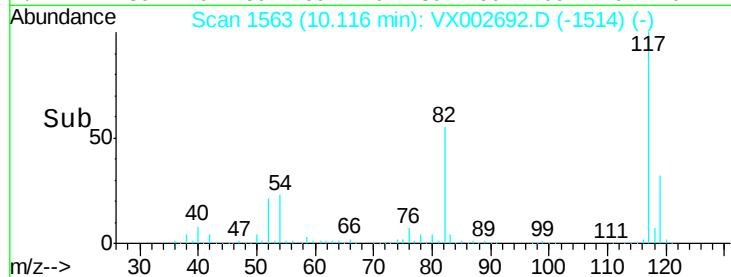
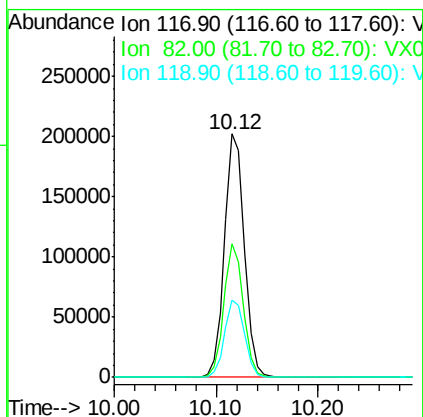
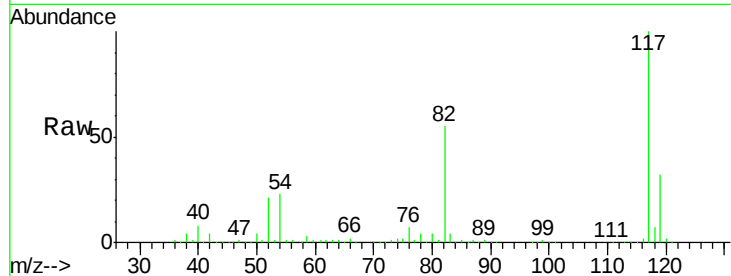




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX002692.D
Acq: 18 Jun 2018 21:54

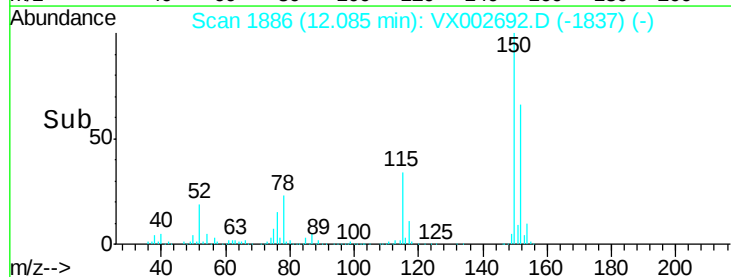
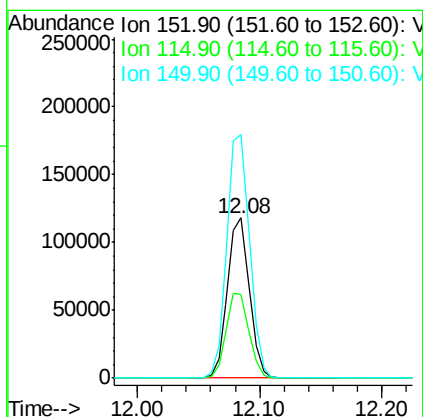
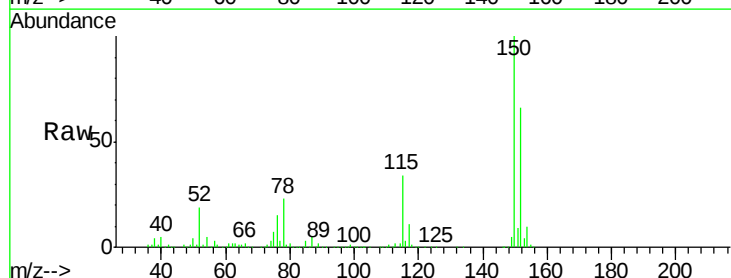
Instrument :
MSVOA_X
ClientSampled :

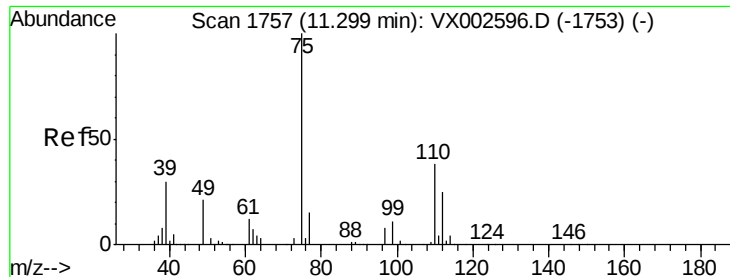
Tot Ion:117 Resp: 272742
Ion Ratio Lower Upper
117 100
82 54.9 45.0 67.4
119 31.7 25.8 38.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1886
Delta R.T. -0.00 min
Lab File: VX002692.D
Acq: 18 Jun 2018 21:54

Tgt Ion:152 Resp: 146003
Ion Ratio Lower Upper
152 100
115 55.2 40.1 120.2
150 158.1 0.0 347.2

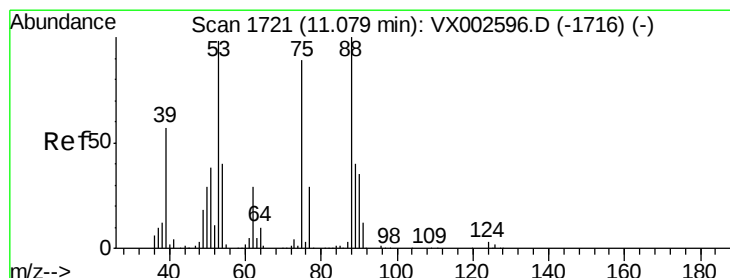
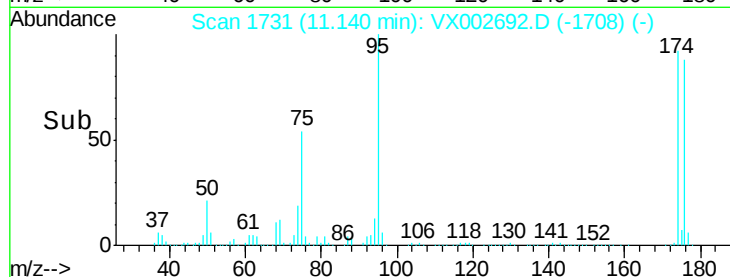
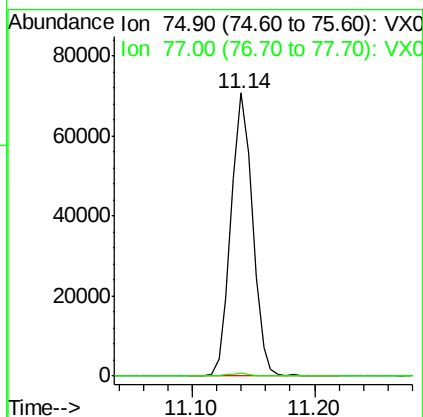
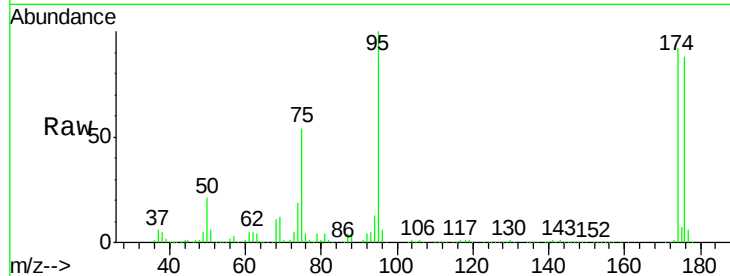




#76
 1,2,3-Trichloropropane
 Concen: 31.21 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.16 min
 Lab File: VX002692.D
 Acq: 18 Jun 2018 21:54

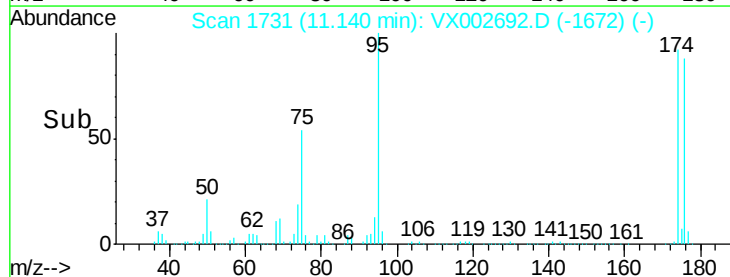
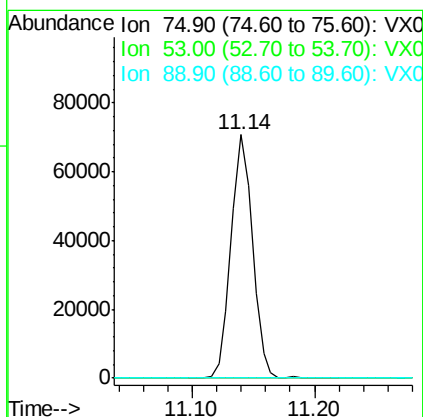
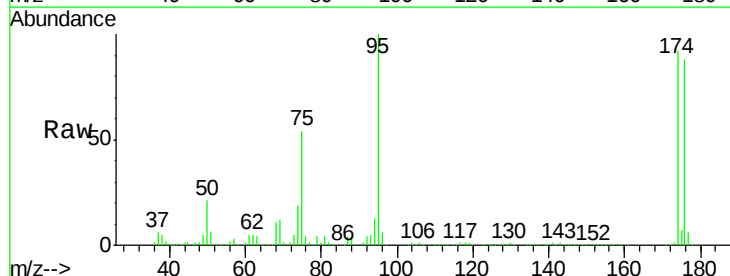
Instrument :
 MSVOA_X
 ClientSampleId :

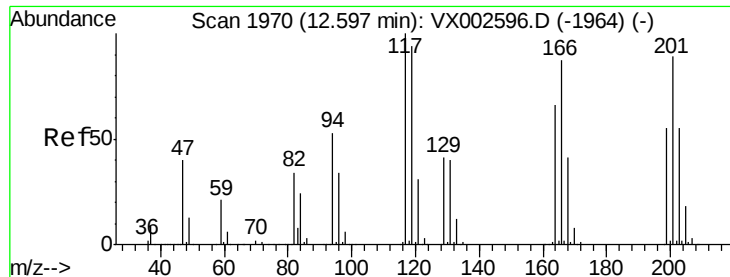
Tot Ion: 75 Resp: 85985
 Ion Ratio Lower Upper
 75 100
 77 1.2 22.8 68.3#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 95.69 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX002692.D
 Acq: 18 Jun 2018 21:54

Tgt Ion: 75 Resp: 85985
 Ion Ratio Lower Upper
 75 100
 53 0.2 86.8 130.2#
 89 0.0 38.2 57.2#





#90

Hexachloroethane

Concen: 2.67 ug/l

RT: 12.39 min Scan# 1936

Delta R.T. -0.21 min

Lab File: VX002692.D

Acq: 18 Jun 2018 21:54

Instrument :

MSVOA_X

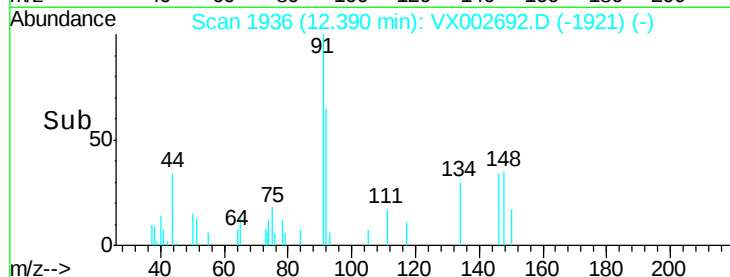
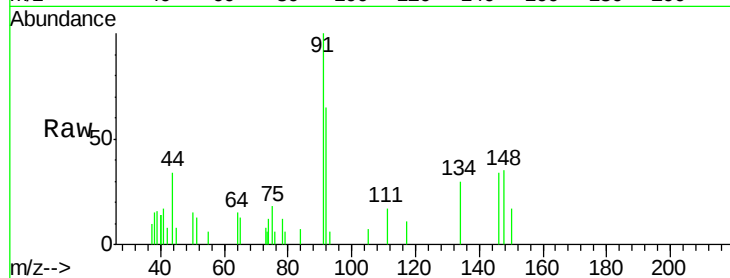
ClientSampleId :

Tot Ion:117 Resp: 60

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

