

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062018\
 Data File : VX002737.D
 Acq On : 20 Jun 2018 13:15
 Operator : JC/MD
 Sample : J3510-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 21 03:56:22 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	226806	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	318938	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	293918	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	163759	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	167490	48.60	ug/l	0.00
Spiked Amount			Recovery	=	97.20%	
35) Dibromofluoromethane	5.51	113	132814	52.18	ug/l	0.00
Spiked Amount			Recovery	=	104.36%	
50) Toluene-d8	8.72	98	494482	51.16	ug/l	0.00
Spiked Amount			Recovery	=	102.32%	
62) 4-Bromofluorobenzene	11.14	95	170449	46.54	ug/l	0.00
Spiked Amount			Recovery	=	93.08%	

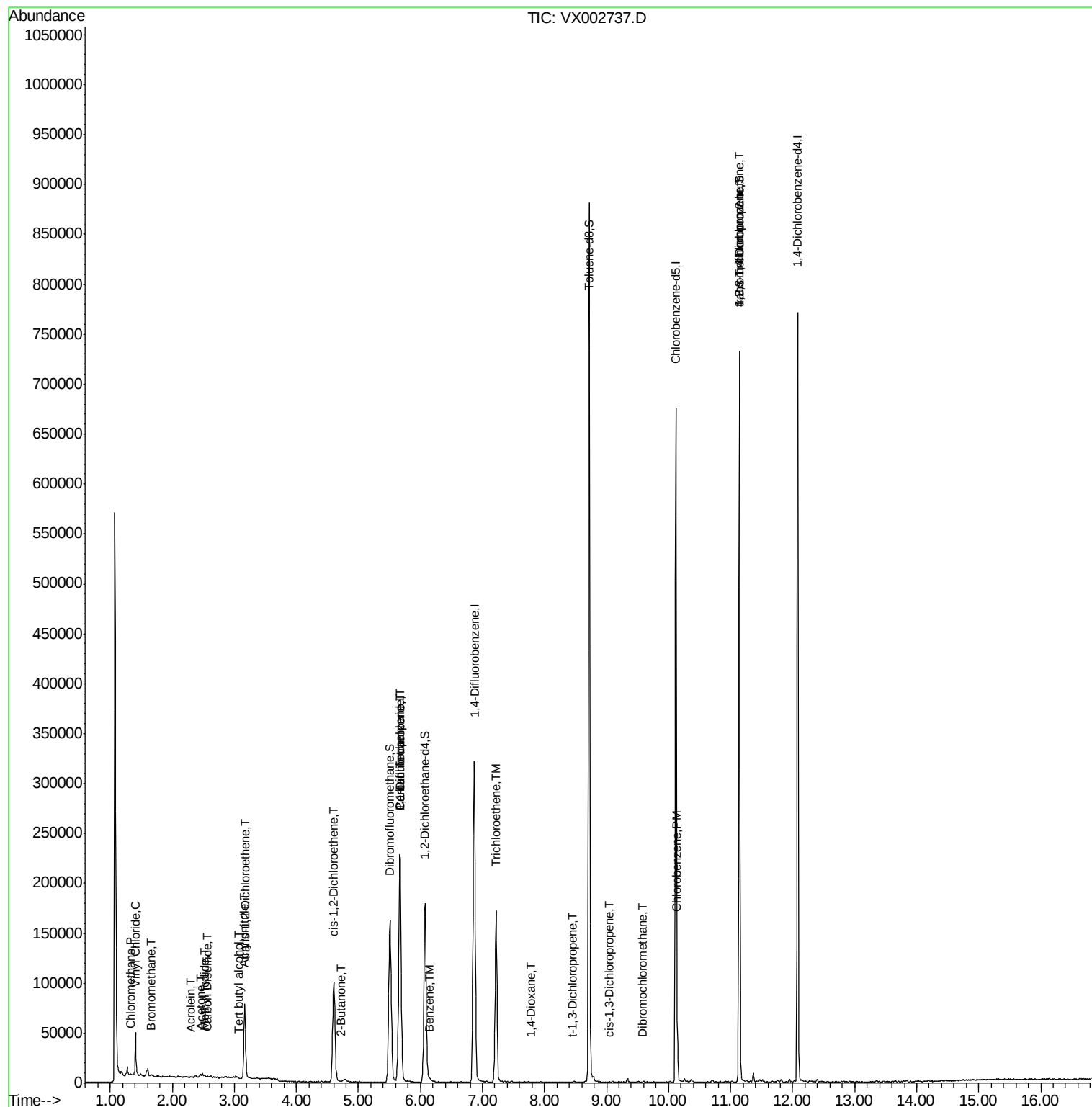
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	722	0.25	ug/l #	87
4) Vinyl Chloride	1.40	62	27144	9.13	ug/l	100
5) Bromomethane	1.65	94	1650	0.92	ug/l #	64
10) Methyl Iodide	2.53	142	2306	5.75	ug/l	91
11) Tert butyl alcohol	3.07	59	188	0.26	ug/l #	92
13) Acrolein	2.29	56	271	7.65	ug/l #	71
15) Acrylonitrile	3.15	53	550	0.35	ug/l #	37
16) Acetone	2.45	43	3299	2.17	ug/l #	89
17) Carbon Disulfide	2.57	76	1544	0.26	ug/l #	93
21) trans-1,2-Dichloroethene	3.17	96	30068	10.94	ug/l	93
25) 2-Butanone	4.71	43	1052	0.53	ug/l #	76
27) cis-1,2-Dichloroethene	4.60	96	62964	22.51	ug/l	84
36) 1,1-Dichloropropene	5.67	75	15646	4.62	ug/l #	50
38) Carbon Tetrachloride	5.67	117	20944	6.21	ug/l #	15
40) Benzene	6.15	78	3277	0.32	ug/l #	88
44) Trichloroethene	7.22	130	66224	22.59	ug/l	95
49) 1,4-Dioxane	7.77	88	22	0.36	ug/l #	1
53) t-1,3-Dichloropropene	8.44	75	109	2.42	ug/l #	13
54) cis-1,3-Dichloropropene	9.05	75	135	3.24	ug/l #	62
60) Dibromochloromethane	9.59	129	22	3.77	ug/l #	11
65) Chlorobenzene	10.14	112	14821	2.05	ug/l	97
76) 1,2,3-Trichloropropane	11.14	75	90610	29.32	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	90610	90.16	ug/l #	7

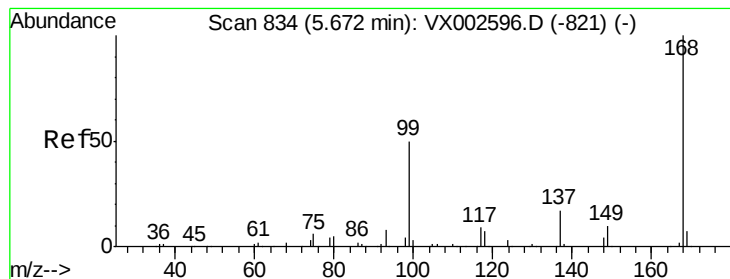
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX062018\
Data File : VX002737.D
Acq On : 20 Jun 2018 13:15
Operator : JC/MD
Sample : J3510-02
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :

Quant Time: Jun 21 03:56:22 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X061518W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 16 01:37:33 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.00 min

Lab File: VX002737.D

Acq: 20 Jun 2018 13:15

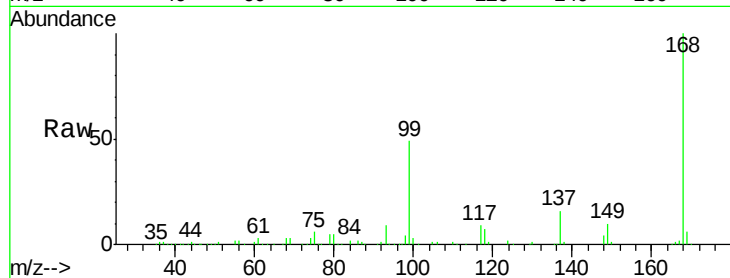
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:168 Resp: 226806

Ion Ratio Lower Upper

168 100

99 49.2 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

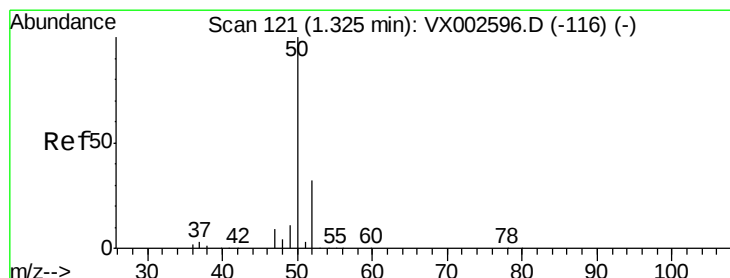
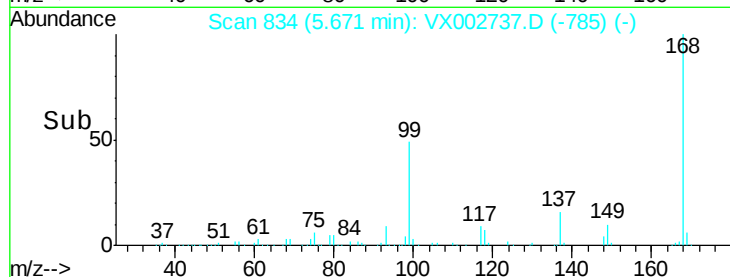
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.25 ug/l

RT: 1.33 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX002737.D

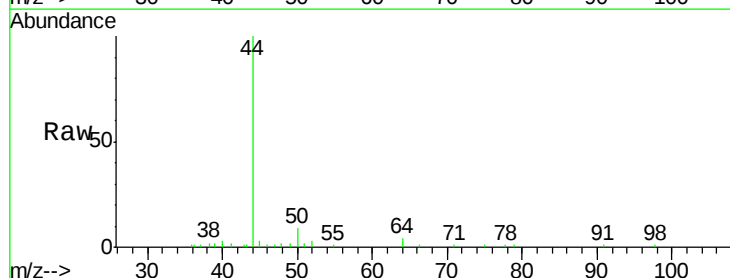
Acq: 20 Jun 2018 13:15

Tgt Ion: 50 Resp: 722

Ion Ratio Lower Upper

50 100

52 39.1 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

600

500

400

300

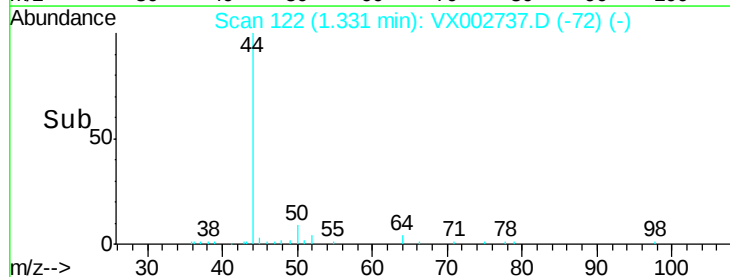
200

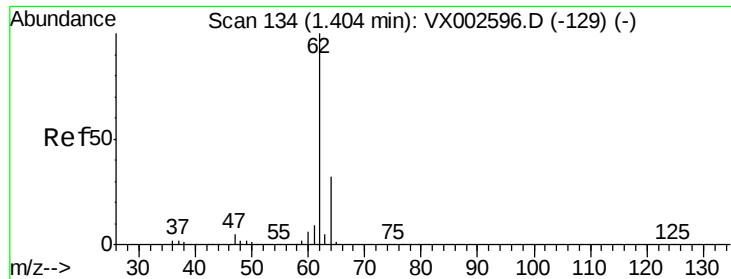
100

0

Time-->

1.30 1.32 1.34 1.36





#4

Vinyl Chloride

Concen: 9.13 ug/l

RT: 1.40 min Scan# 134

Delta R.T. -0.00 min

Lab File: VX002737.D

Acq: 20 Jun 2018 13:15

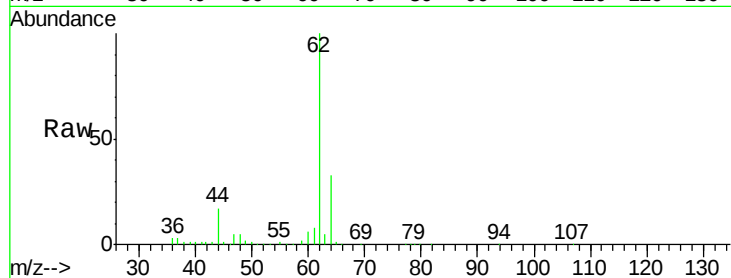
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 62 Resp: 27144

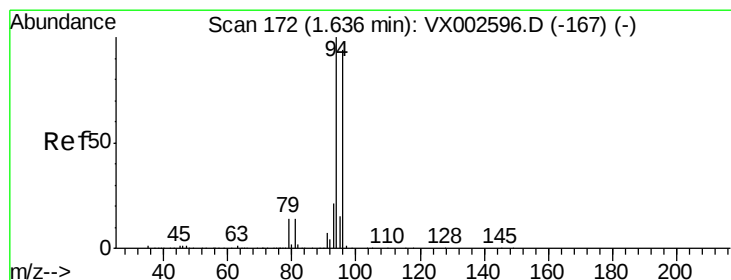
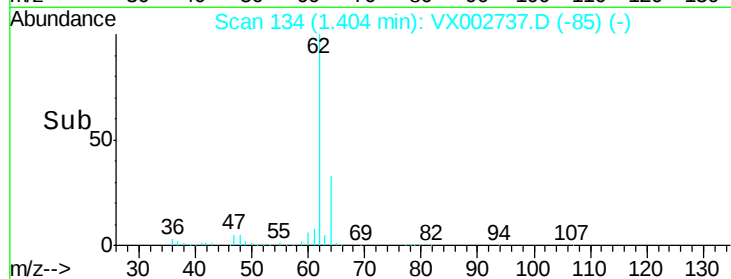
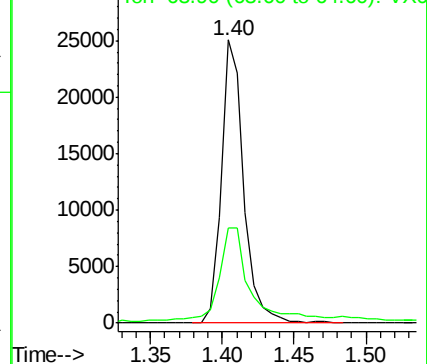
Ion Ratio Lower Upper

62 100

64 31.7 25.4 38.2



Abundance Ion 61.90 (61.60 to 62.60): VX0
Ion 63.90 (63.60 to 64.60): VX0



#5

Bromomethane

Concen: 0.92 ug/l

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX002737.D

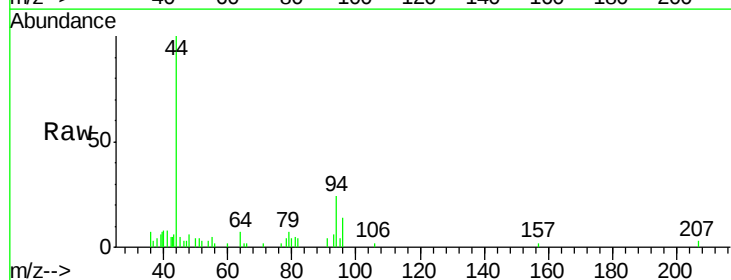
Acq: 20 Jun 2018 13:15

Tgt Ion: 94 Resp: 1650

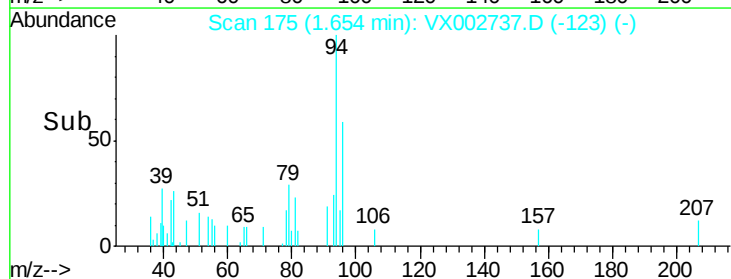
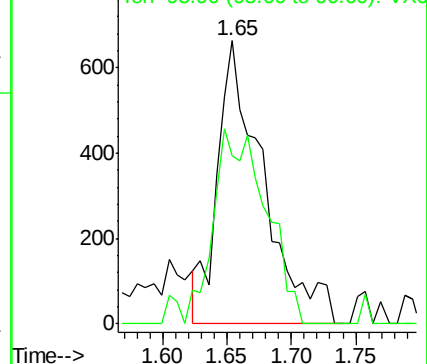
Ion Ratio Lower Upper

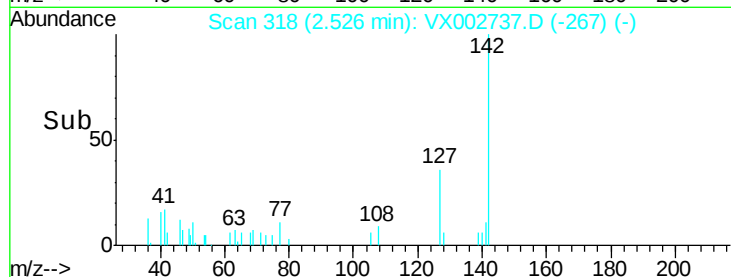
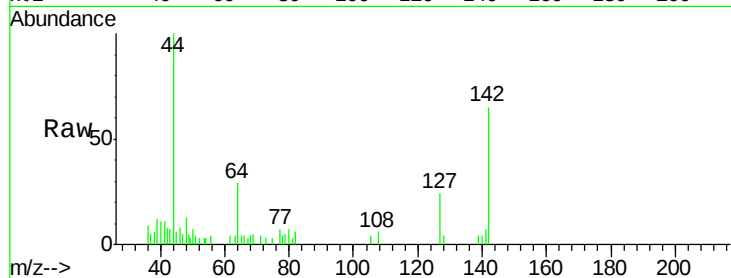
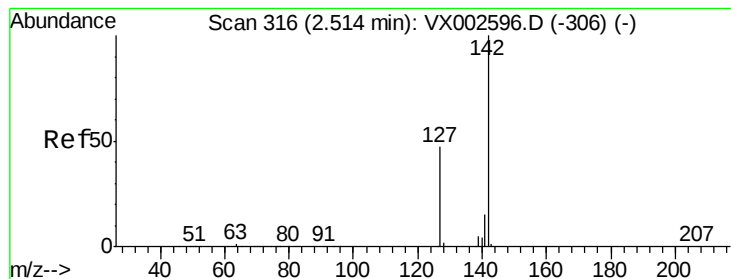
94 100

96 59.3 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: 5.75 ug/l

RT: 2.53 min Scan# 318

Delta R.T. 0.01 min

Lab File: VX002737.D

Acq: 20 Jun 2018 13:15

Instrument :

MSVOA_X

ClientSampled :

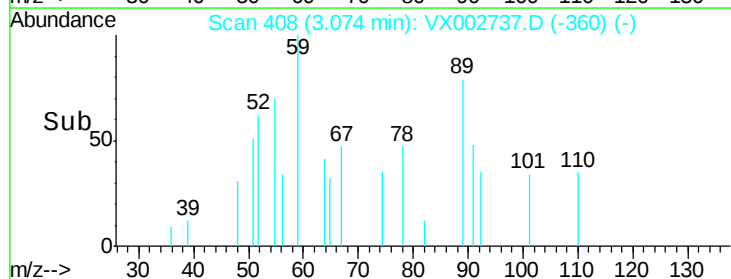
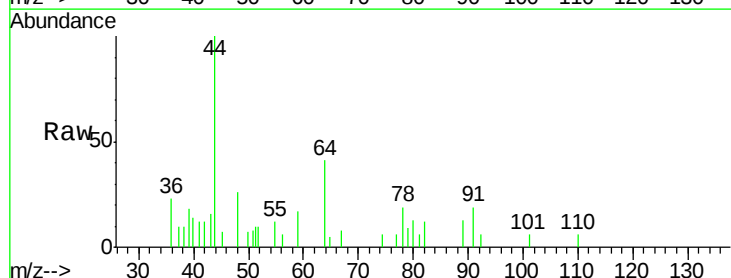
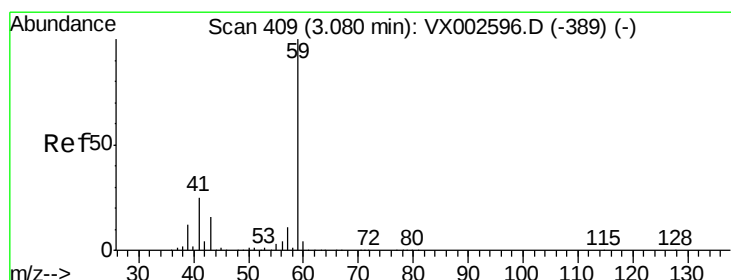
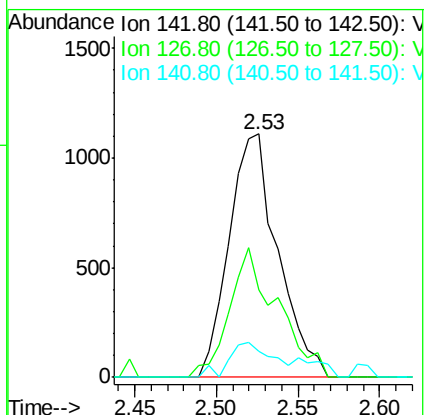
Tot Ion:142 Resp: 2306

Ion Ratio Lower Upper

142 100

127 52.5 36.6 55.0

141 12.6 11.3 16.9



#11

Tert butyl alcohol

Concen: 0.26 ug/l

RT: 3.07 min Scan# 408

Delta R.T. -0.01 min

Lab File: VX002737.D

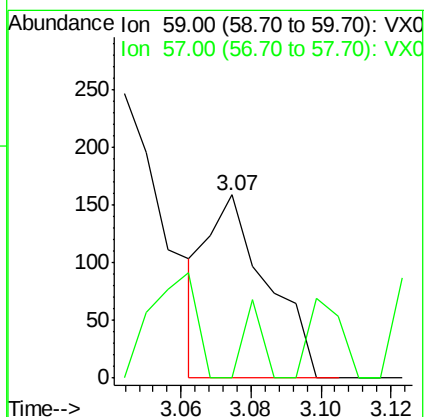
Acq: 20 Jun 2018 13:15

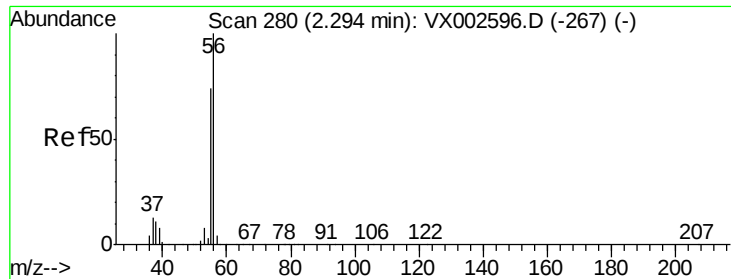
Tgt Ion: 59 Resp: 188

Ion Ratio Lower Upper

59 100

57 13.3 8.2 12.2#





#13

Acrolein

Concen: 7.65 ug/l

RT: 2.29 min Scan# 280

Delta R.T. 0.00 min

Lab File: VX002737.D

Acq: 20 Jun 2018 13:15

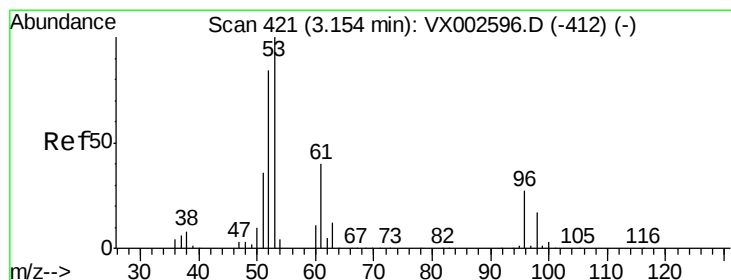
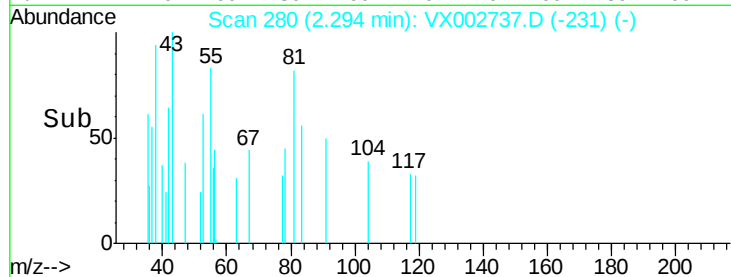
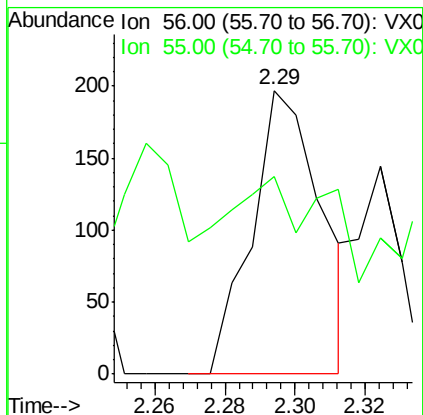
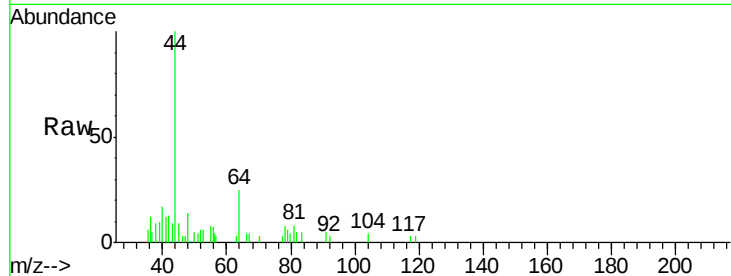
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 271

Ion Ratio Lower Upper

56 100

55 46.9 57.0 85.4#



#15

Acrylonitrile

Concen: 0.35 ug/l

RT: 3.15 min Scan# 421

Delta R.T. -0.00 min

Lab File: VX002737.D

Acq: 20 Jun 2018 13:15

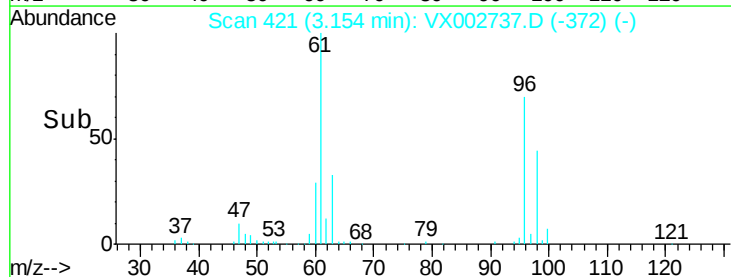
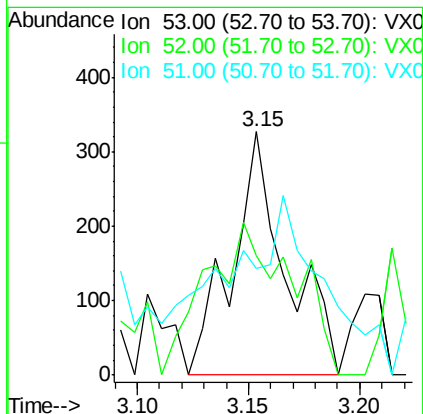
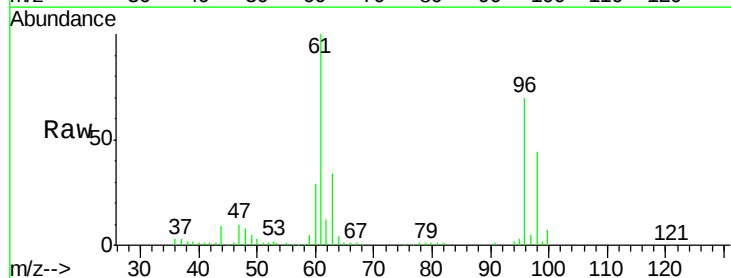
Tgt Ion: 53 Resp: 550

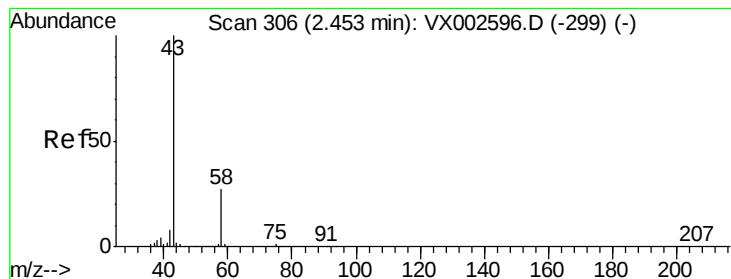
Ion Ratio Lower Upper

53 100

52 101.3 66.7 100.1#

51 133.1 29.9 44.9#





#16

Acetone

Concen: 2.17 ug/l

RT: 2.45 min Scan# 306

Delta R.T. -0.00 min

Lab File: VX002737.D

Acq: 20 Jun 2018 13:15

Instrument :

MSVOA_X

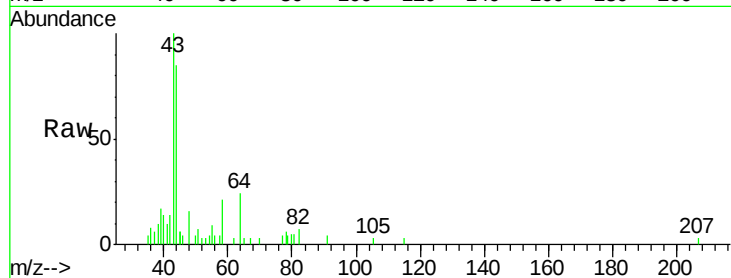
ClientSampleId :

Tot Ion: 43 Resp: 3299

Ion Ratio Lower Upper

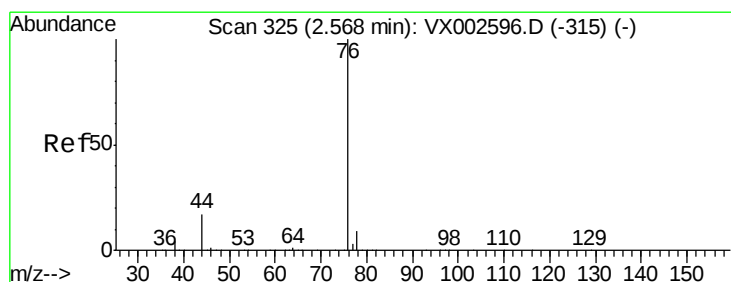
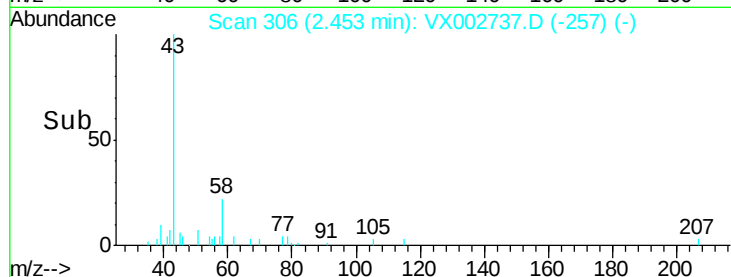
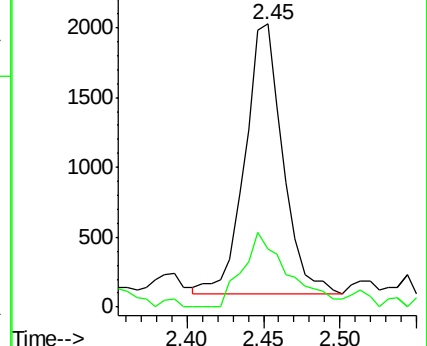
43 100

58 21.8 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: 0.26 ug/l

RT: 2.57 min Scan# 326

Delta R.T. 0.01 min

Lab File: VX002737.D

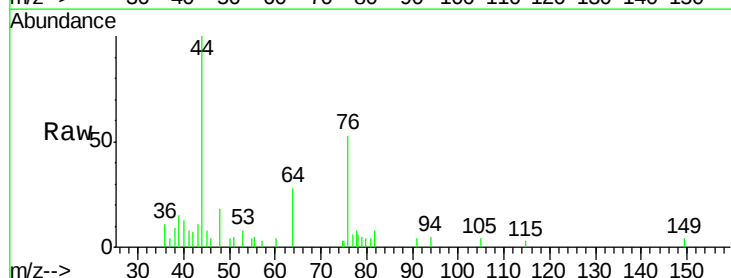
Acq: 20 Jun 2018 13:15

Tgt Ion: 76 Resp: 1544

Ion Ratio Lower Upper

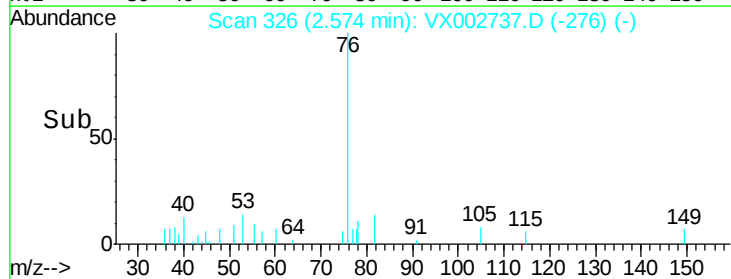
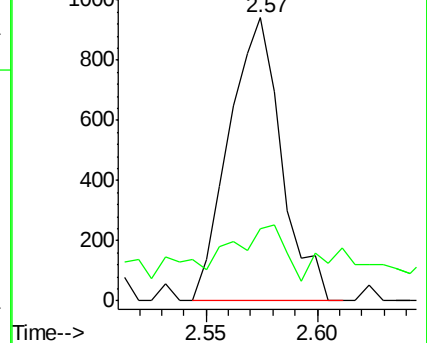
76 100

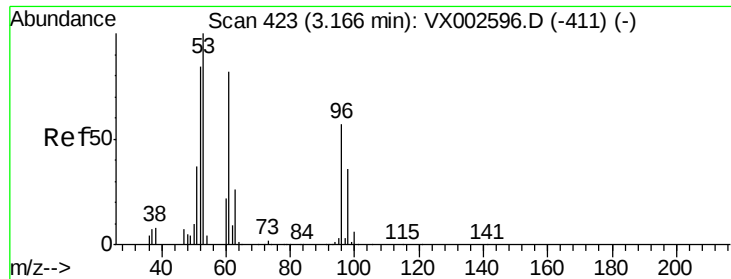
78 10.9 6.9 10.3#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0





#21

trans-1,2-Dichloroethene

Concen: 10.94 ug/l

RT: 3.17 min Scan# 423

Delta R.T. -0.00 min

Lab File: VX002737.D

Acq: 20 Jun 2018 13:15

Instrument :
MSVOA_X
ClientSampled :

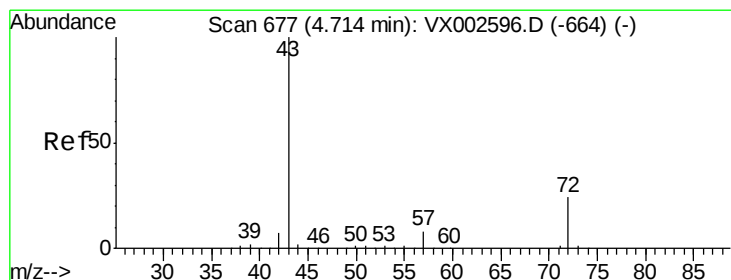
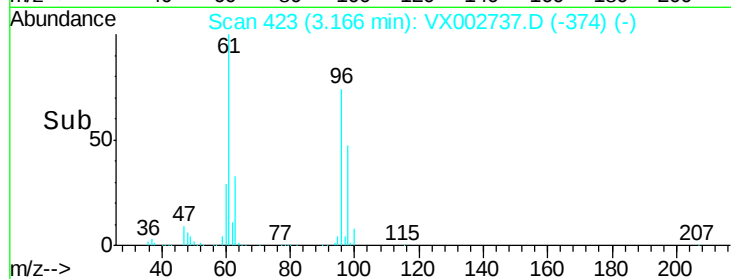
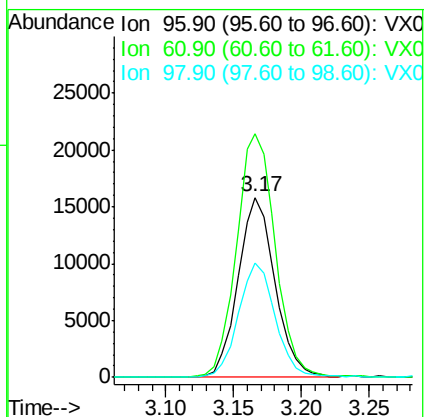
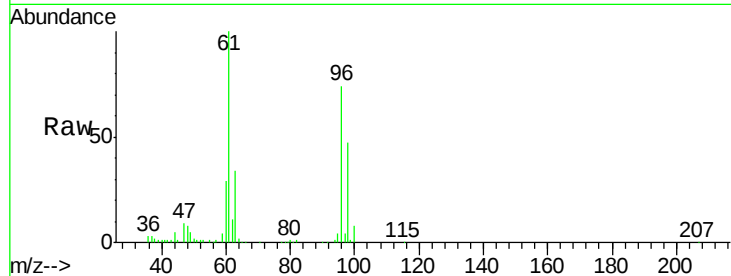
Tot Ion: 96 Resp: 30068

Ion Ratio Lower Upper

96 100

61 135.1 117.0 175.4

98 63.2 52.4 78.6



#25

2-Butanone

Concen: 0.53 ug/l

RT: 4.71 min Scan# 677

Delta R.T. -0.00 min

Lab File: VX002737.D

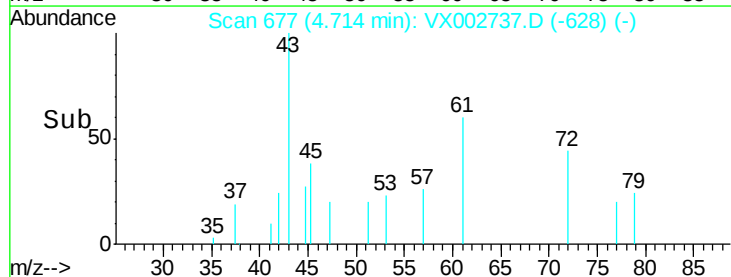
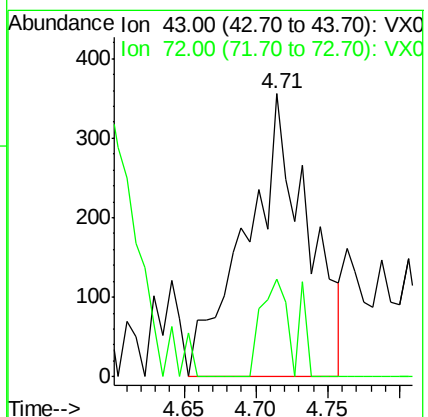
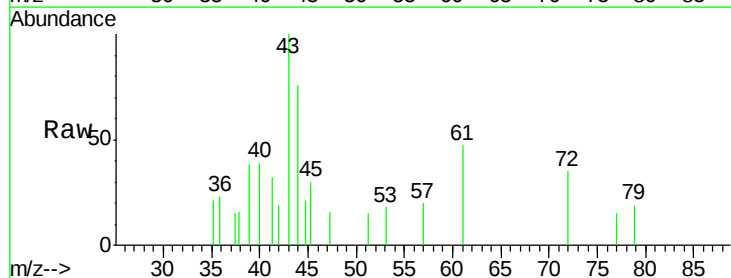
Acq: 20 Jun 2018 13:15

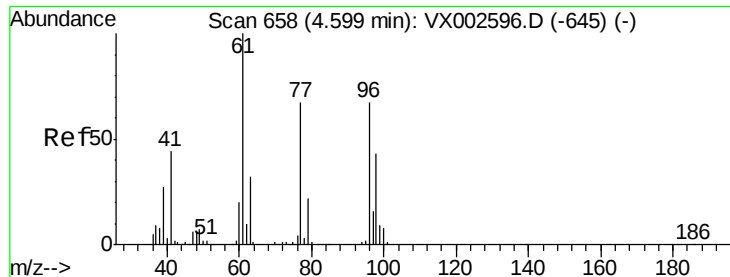
Tgt Ion: 43 Resp: 1052

Ion Ratio Lower Upper

43 100

72 34.6 18.5 27.7#



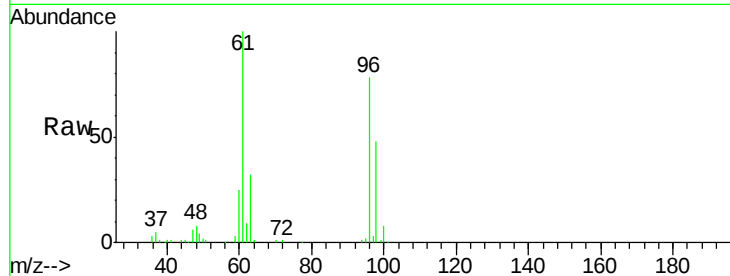


#27

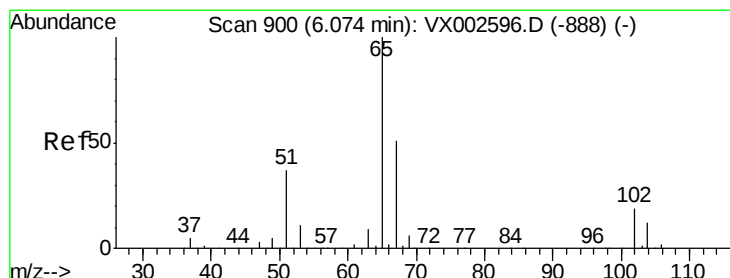
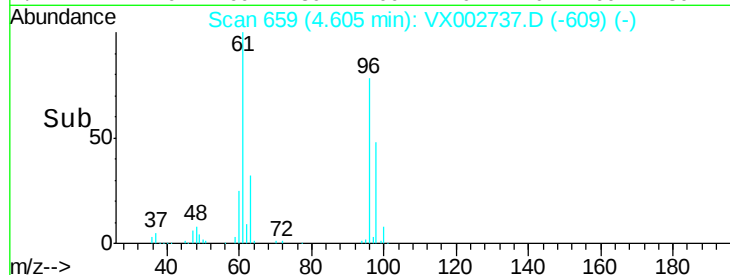
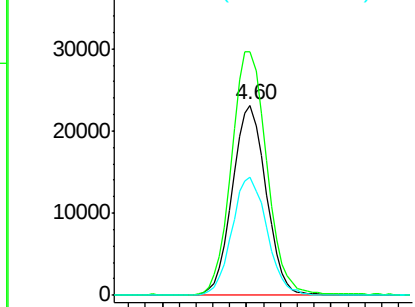
cis-1,2-Dichloroethene
Concen: 22.51 ug/l
RT: 4.60 min Scan# 659
Delta R.T. 0.01 min
Lab File: VX002737.D
Acq: 20 Jun 2018 13:15

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
96	100		
61	135.0	0.0	330.2
98	64.3	0.0	130.2



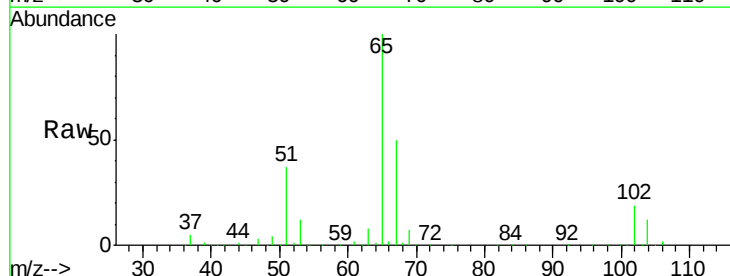
Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0



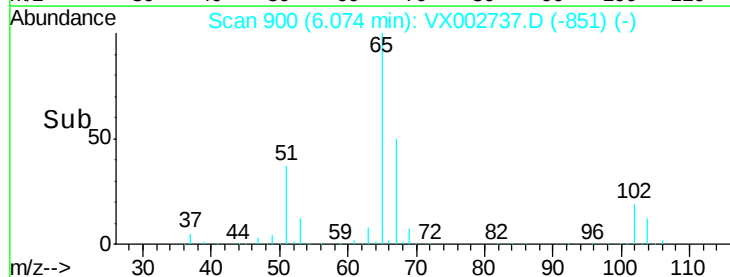
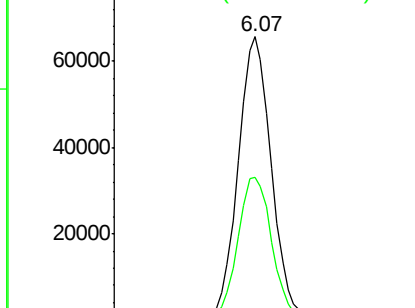
#33

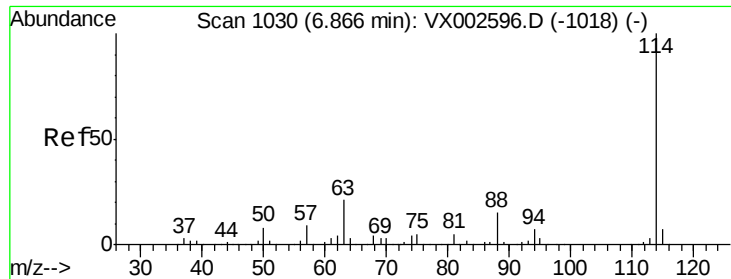
1,2-Dichloroethane-d4
Concen: 48.60 ug/l
RT: 6.07 min Scan# 900
Delta R.T. 0.00 min
Lab File: VX002737.D
Acq: 20 Jun 2018 13:15

Tgt Ion	Ratio	Lower	Upper
65	100		
67	52.1	0.0	102.6



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

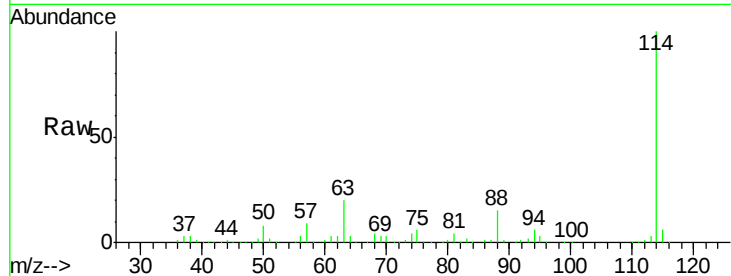




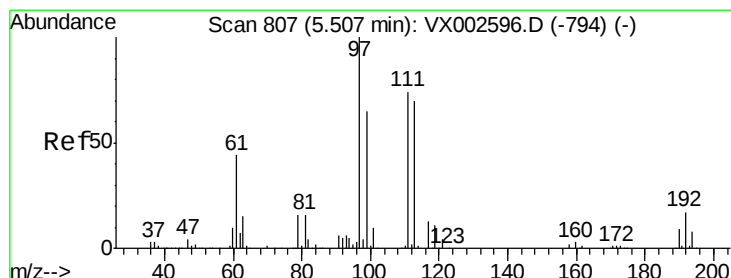
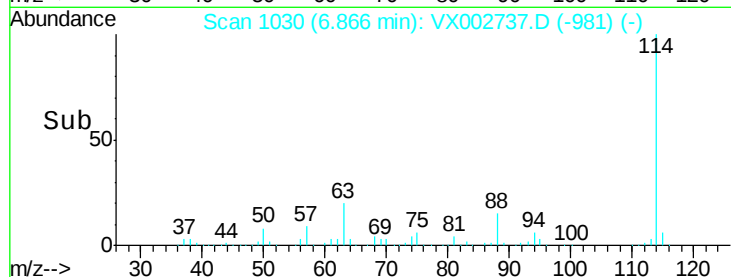
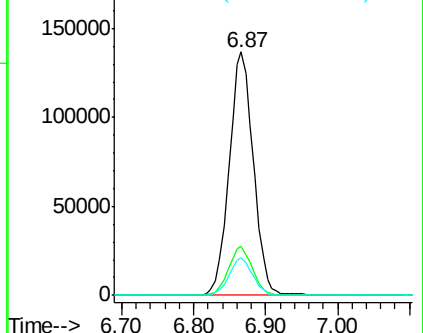
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX002737.D
 Acq: 20 Jun 2018 13:15

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion:114 Resp: 318938
 Ion Ratio Lower Upper
 114 100
 63 20.4 0.0 41.4
 88 15.2 0.0 30.0

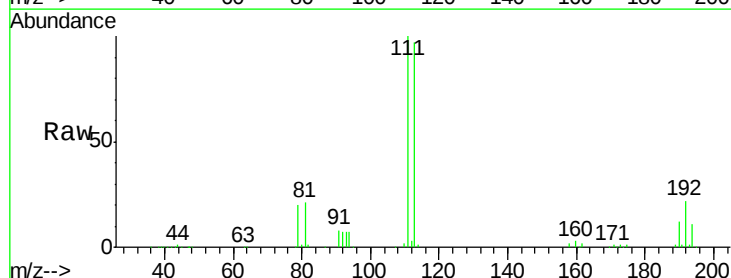


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

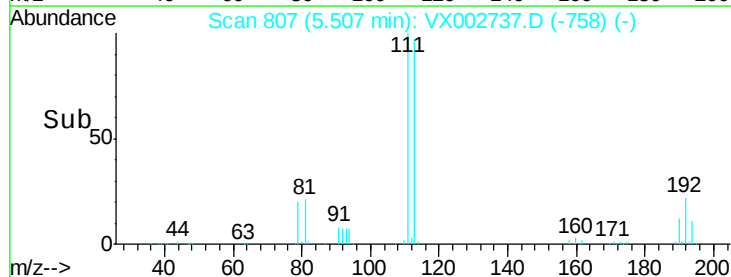
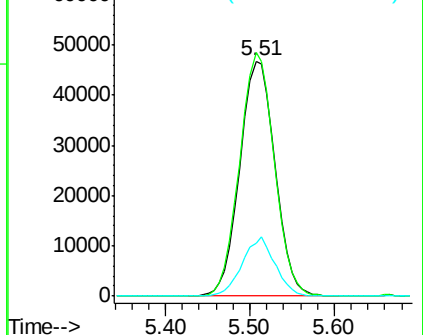


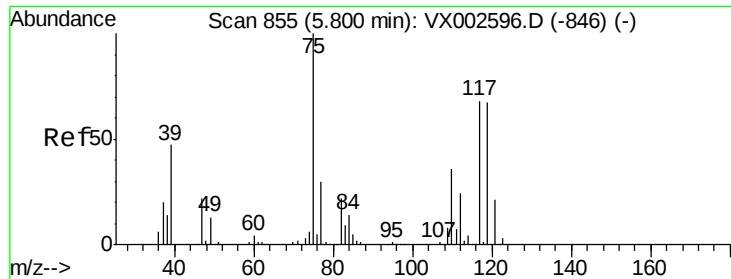
#35
 Dibromofluoromethane
 Concen: 52.18 ug/l
 RT: 5.51 min Scan# 807
 Delta R.T. -0.00 min
 Lab File: VX002737.D
 Acq: 20 Jun 2018 13:15

Tgt Ion:113 Resp: 132814
 Ion Ratio Lower Upper
 113 100
 111 102.1 81.4 122.0
 192 23.3 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

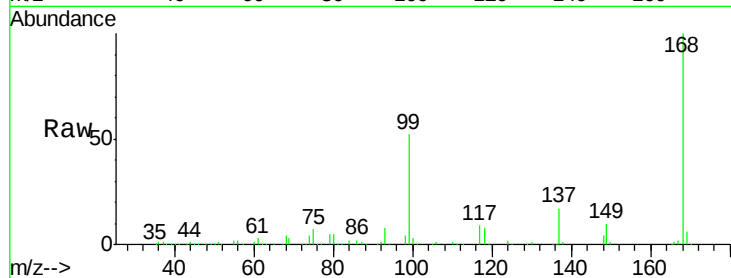




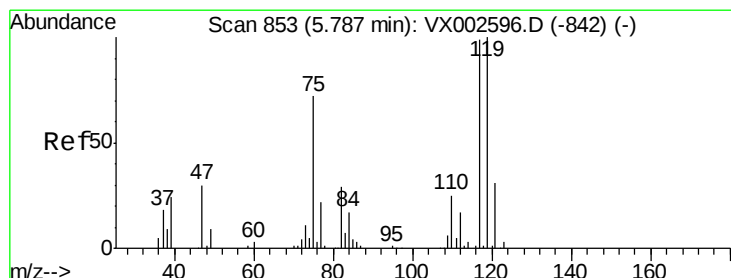
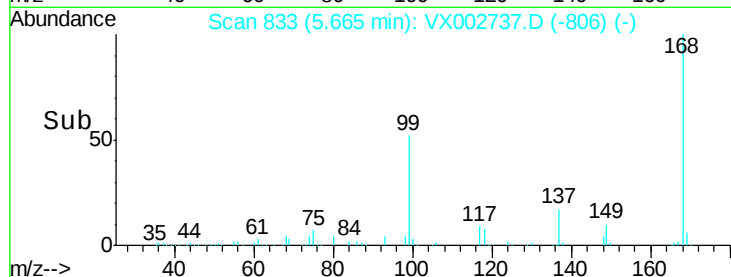
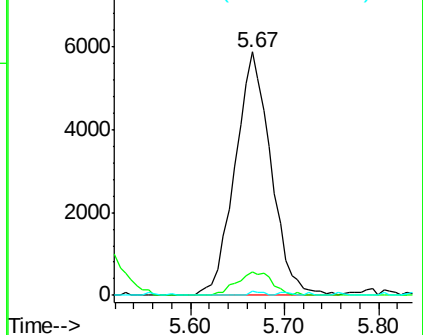
#36
 1,1-Dichloropropene
 Concen: 4.62 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.13 min
 Lab File: VX002737.D
 Acq: 20 Jun 2018 13:15

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
75	100		
110	9.6	18.1	54.4#
77	0.6	24.3	36.5#

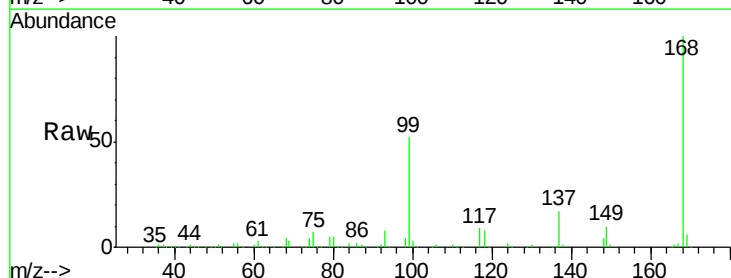


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

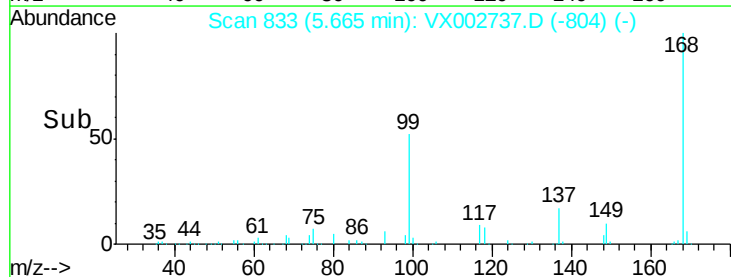
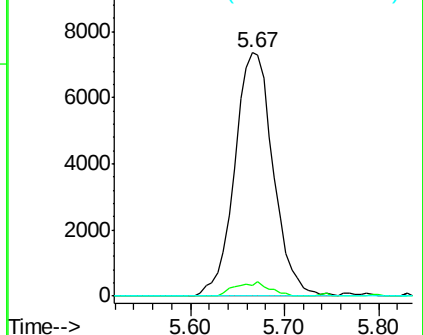


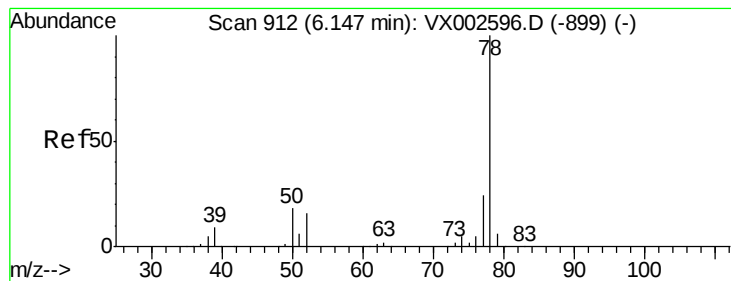
#38
 Carbon Tetrachloride
 Concen: 6.21 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.12 min
 Lab File: VX002737.D
 Acq: 20 Jun 2018 13:15

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.6	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





#40

Benzene

Concen: 0.32 ug/l

RT: 6.15 min Scan# 912

Delta R.T. -0.00 min

Lab File: VX002737.D

Acq: 20 Jun 2018 13:15

Instrument :

MSVOA_X

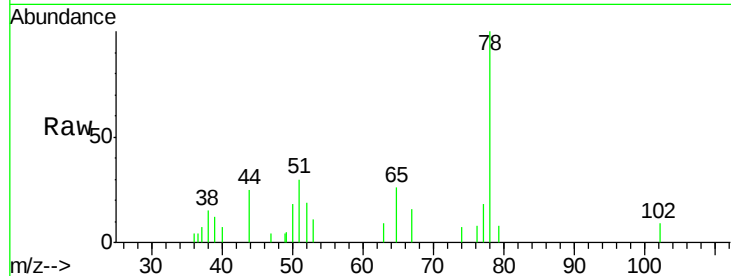
ClientSampled :

Tot Ion: 78 Resp: 3277

Ion Ratio Lower Upper

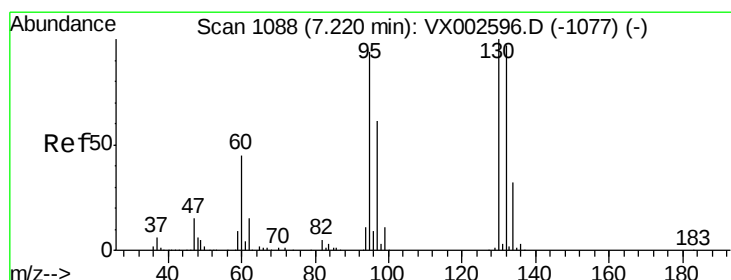
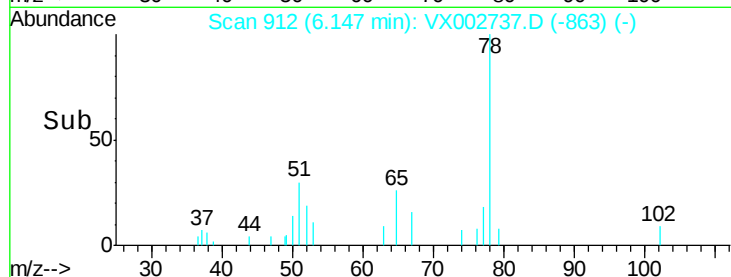
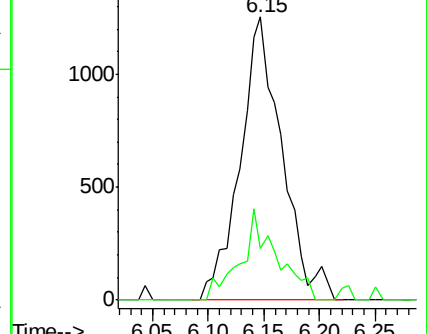
78 100

77 18.1 19.1 28.7#



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0



#44

Trichloroethene

Concen: 22.59 ug/l

RT: 7.22 min Scan# 1088

Delta R.T. -0.00 min

Lab File: VX002737.D

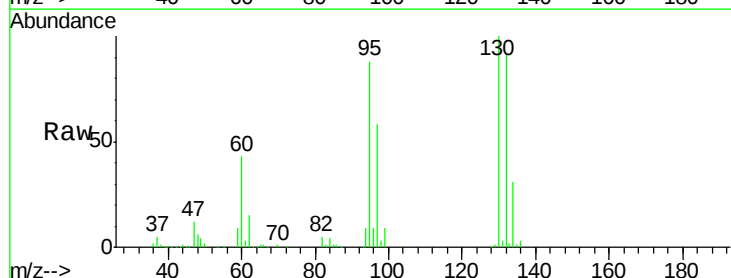
Acq: 20 Jun 2018 13:15

Tgt Ion:130 Resp: 66224

Ion Ratio Lower Upper

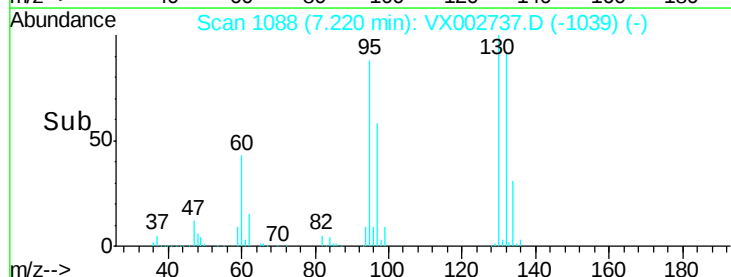
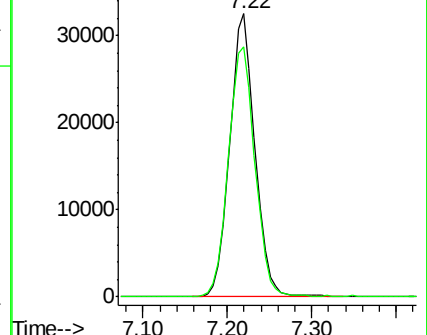
130 100

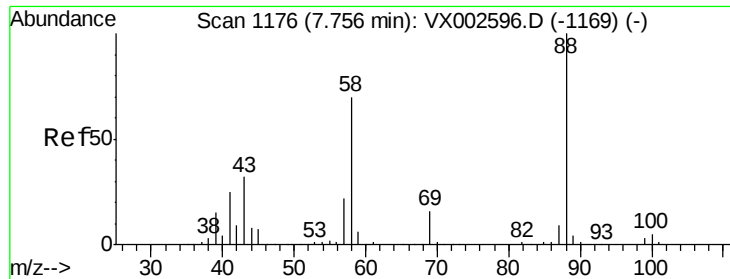
95 88.2 0.0 185.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

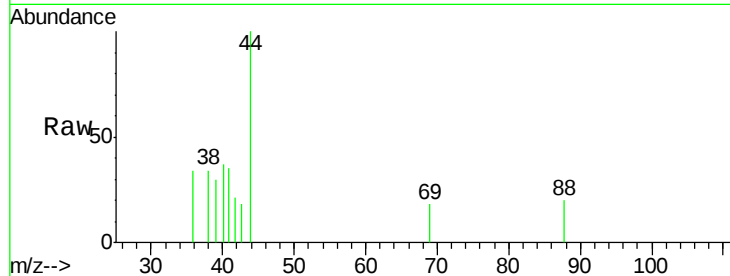




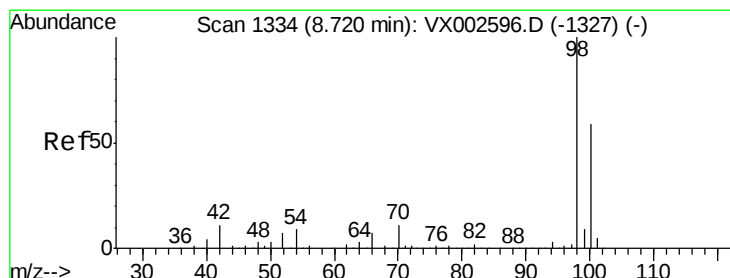
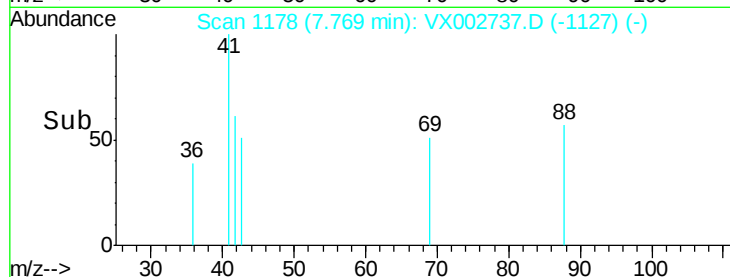
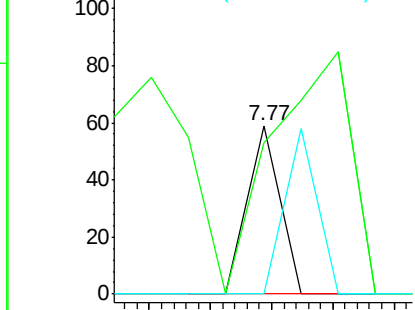
#49
 1,4-Dioxane
 Concen: 0.36 ug/l
 RT: 7.77 min Scan# 1178
 Delta R.T. 0.01 min
 Lab File: VX002737.D
 Acq: 20 Jun 2018 13:15

Instrument :
 MSVOA_X
 ClientSampled :

Tot Ion: 88 Resp: 22
 Ion Ratio Lower Upper
 88 100
 43 340.9 29.8 44.6#
 58 95.5 57.1 85.7#

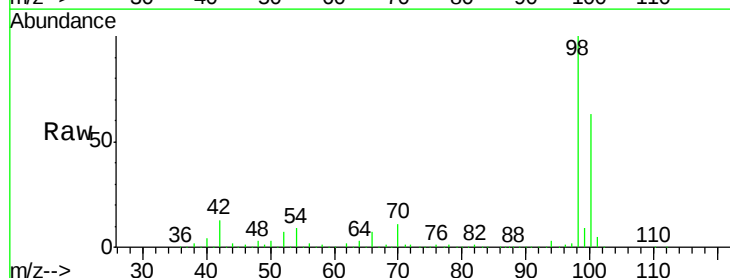


Abundance Ion 88.00 (87.70 to 88.70): VX0
 Ion 43.00 (42.70 to 43.70): VX0
 Ion 58.00 (57.70 to 58.70): VX0

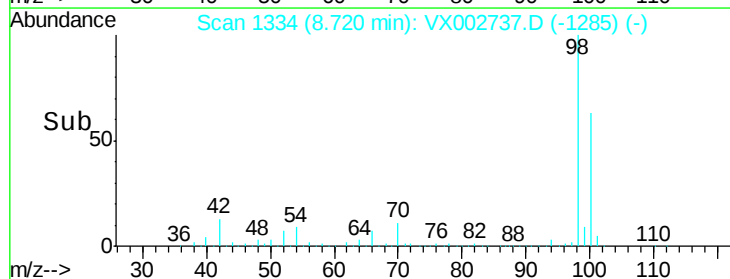
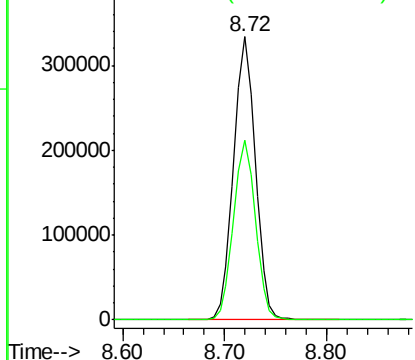


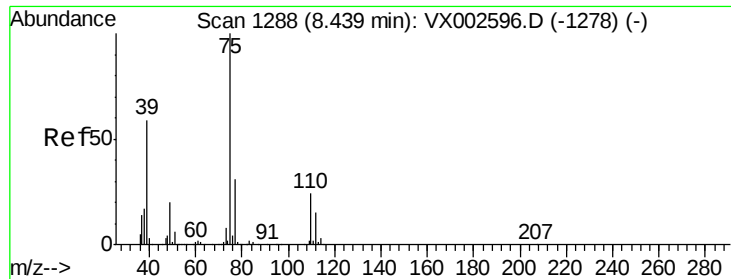
#50
 Toluene-d8
 Concen: 51.16 ug/l
 RT: 8.72 min Scan# 1334
 Delta R.T. 0.00 min
 Lab File: VX002737.D
 Acq: 20 Jun 2018 13:15

Tgt Ion: 98 Resp: 494482
 Ion Ratio Lower Upper
 98 100
 100 63.9 50.9 76.3



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





#53

t-1,3-Dichloropropene

Concen: 2.42 ug/l

RT: 8.44 min Scan# 1288

Delta R.T. 0.00 min

Lab File: VX002737.D

Acq: 20 Jun 2018 13:15

Instrument :

MSVOA_X

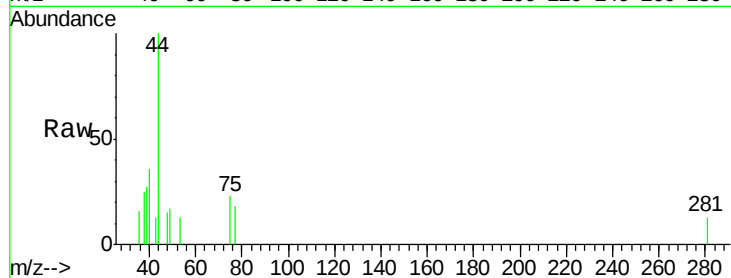
ClientSampleId :

Tot Ion: 75 Resp: 109

Ion Ratio Lower Upper

75 100

77 80.2 25.4 38.2#



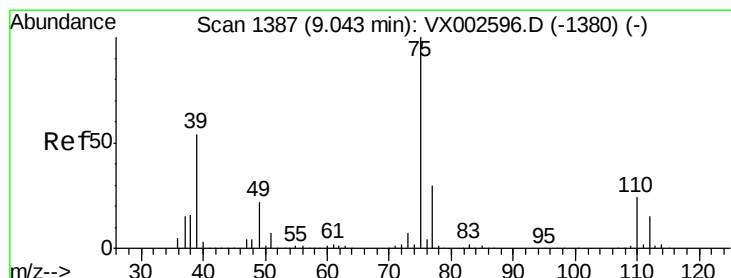
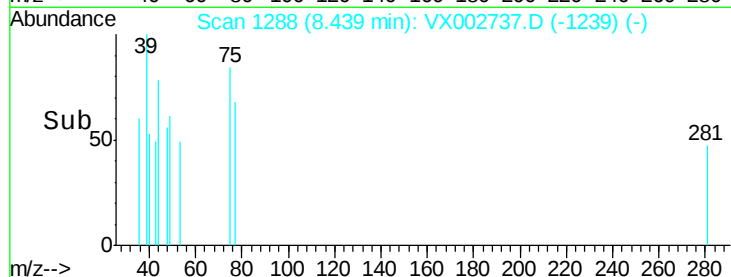
Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

8.44

8.42 8.44 8.46 8.48

Time-->



#54

cis-1,3-Dichloropropene

Concen: 3.24 ug/l

RT: 9.05 min Scan# 1388

Delta R.T. 0.01 min

Lab File: VX002737.D

Acq: 20 Jun 2018 13:15

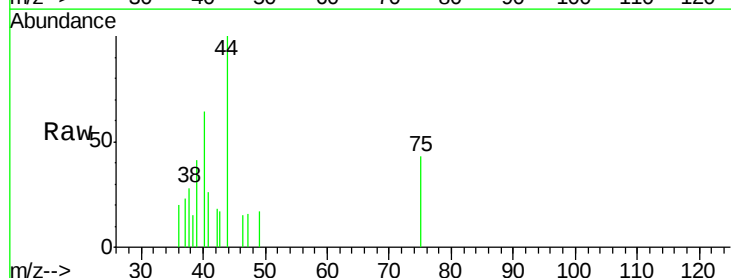
Tgt Ion: 75 Resp: 135

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

39 33.3 42.4 63.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

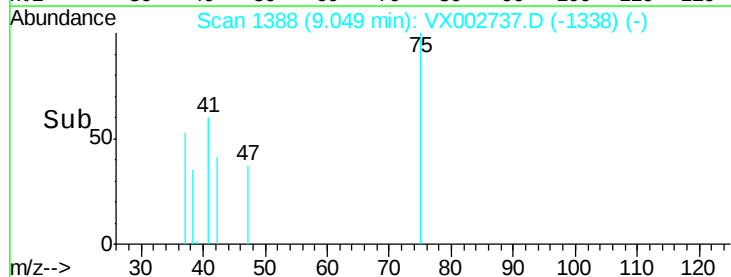
Ion 76.90 (76.60 to 77.60): VX0

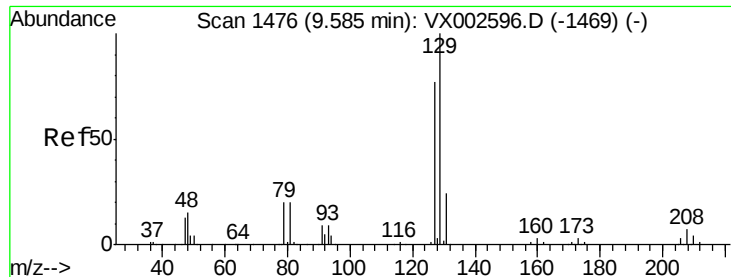
Ion 39.00 (38.70 to 39.70): VX0

9.05

9.02 9.04 9.06 9.08

Time-->





#60

Dibromochloromethane

Concen: 3.77 ug/l

RT: 9.59 min Scan# 1476

Delta R.T. 0.00 min

Lab File: VX002737.D

Acq: 20 Jun 2018 13:15

Instrument :

MSVOA_X

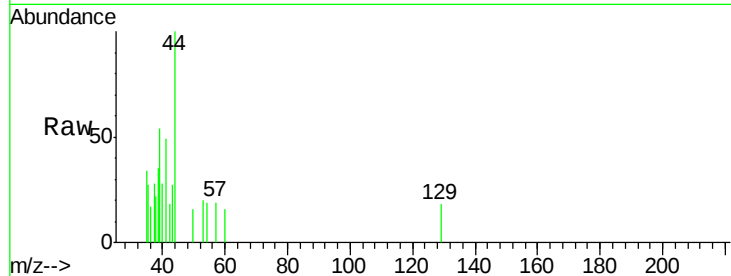
ClientSampleId :

Tot Ion:129 Resp: 22

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

9.59

60

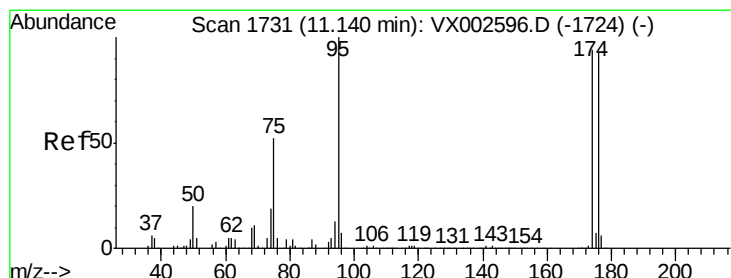
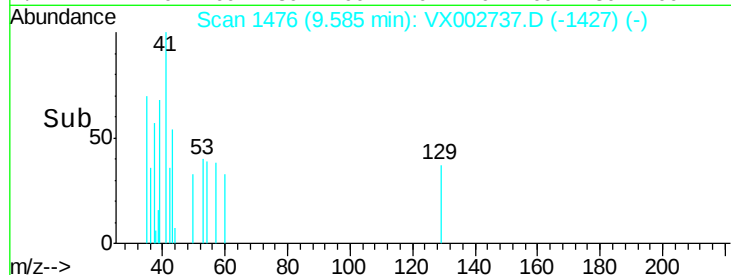
40

20

0

9.57 9.58 9.59 9.60

Time-->



#62

4-Bromofluorobenzene

Concen: 46.54 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX002737.D

Acq: 20 Jun 2018 13:15

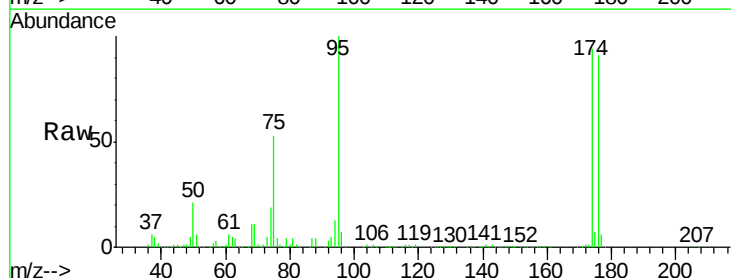
Tgt Ion: 95 Resp: 170449

Ion Ratio Lower Upper

95 100

174 96.2 0.0 187.4

176 93.9 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

150000

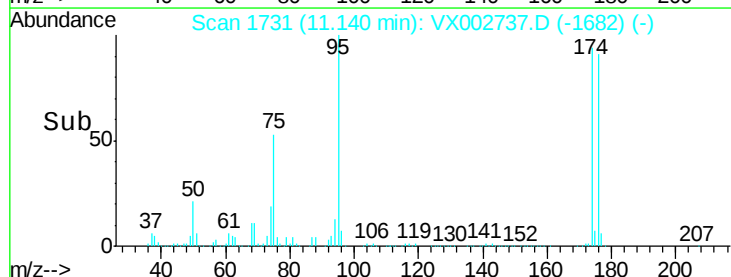
100000

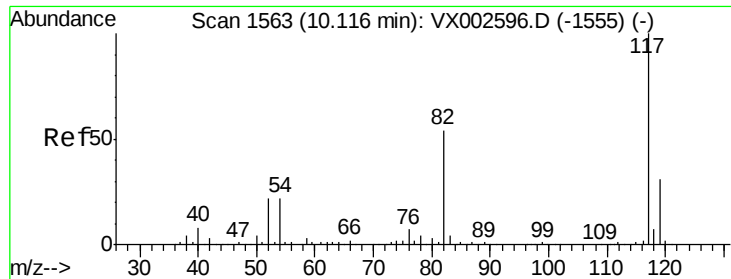
50000

0

11.10 11.14 11.20

Time-->

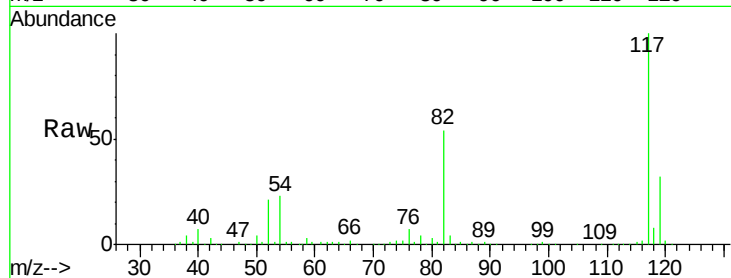




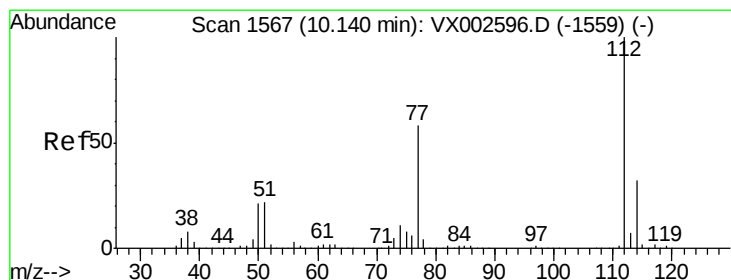
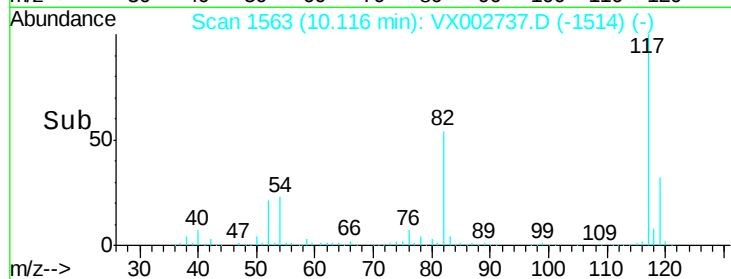
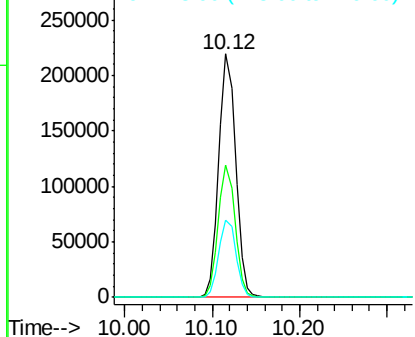
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX002737.D
Acq: 20 Jun 2018 13:15

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 293918
Ion Ratio Lower Upper
117 100
82 54.4 45.0 67.4
119 32.0 25.8 38.6

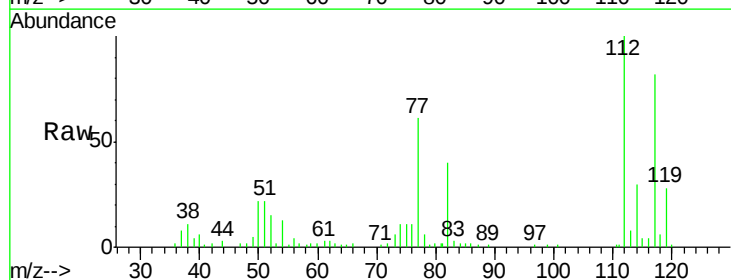


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

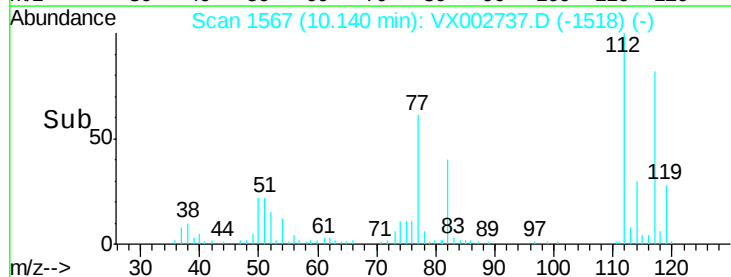
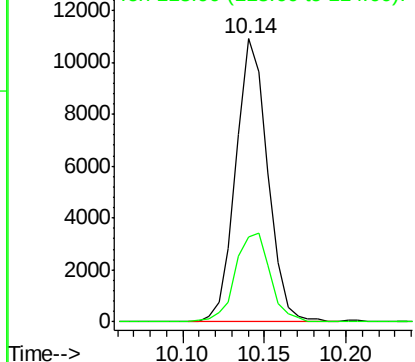


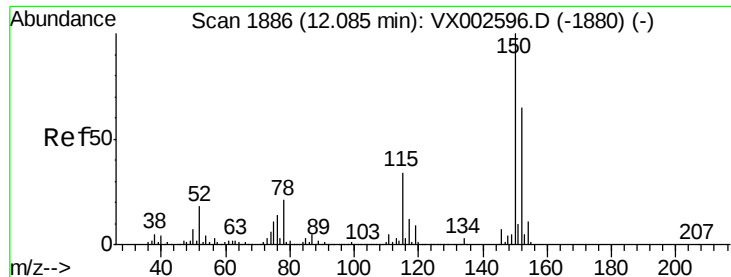
#65
Chlorobenzene
Concen: 2.05 ug/l
RT: 10.14 min Scan# 1567
Delta R.T. -0.00 min
Lab File: VX002737.D
Acq: 20 Jun 2018 13:15

Tgt Ion:112 Resp: 14821
Ion Ratio Lower Upper
112 100
114 30.2 25.3 37.9



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





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX002737.D

Acq: 20 Jun 2018 13:15

Instrument :

MSVOA_X

ClientSampled :

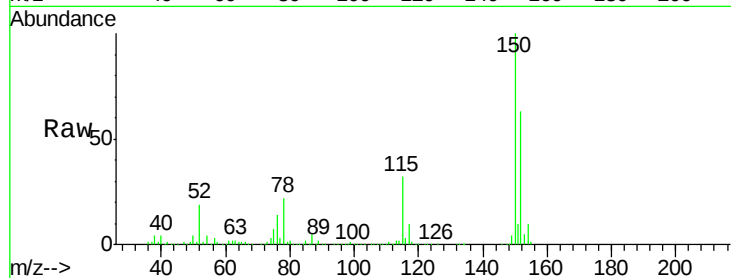
Tot Ion:152 Resp: 163759

Ion Ratio Lower Upper

152 100

115 54.0 40.1 120.2

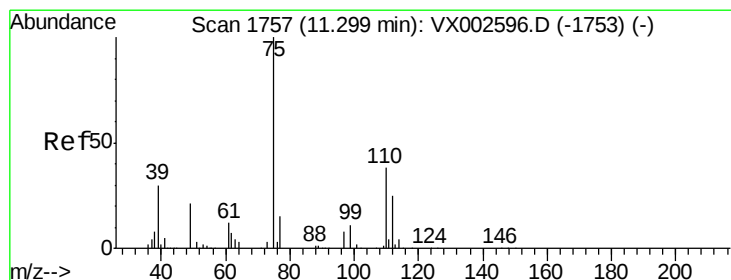
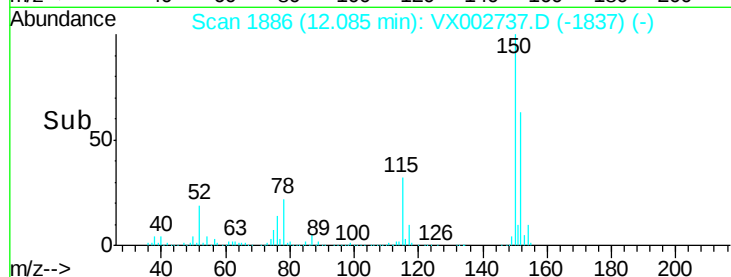
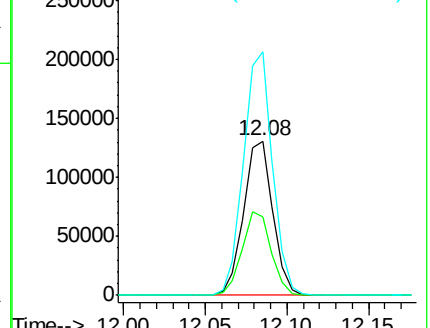
150 156.9 0.0 347.2



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



#76

1,2,3-Trichloropropane

Concen: 29.32 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002737.D

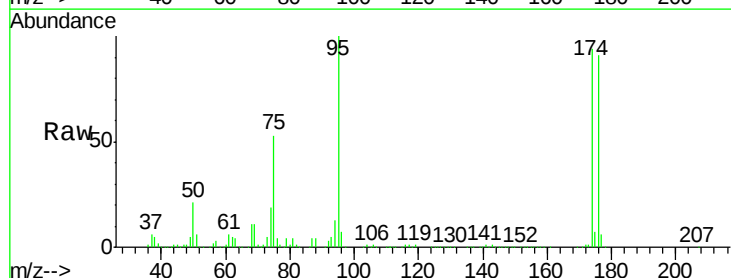
Acq: 20 Jun 2018 13:15

Tgt Ion: 75 Resp: 90610

Ion Ratio Lower Upper

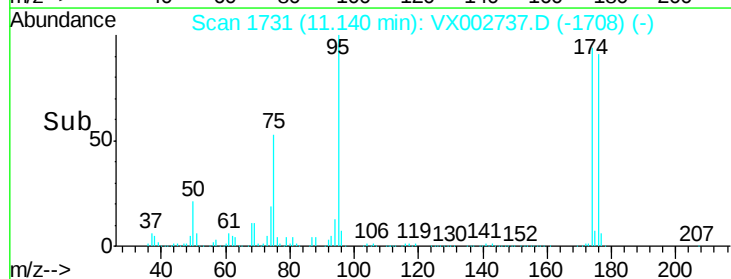
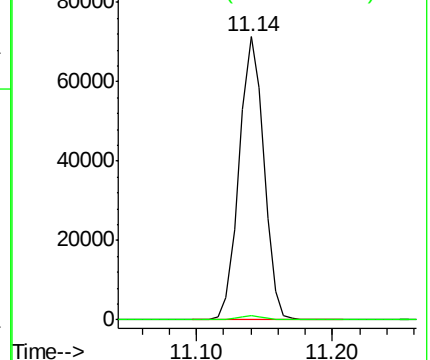
75 100

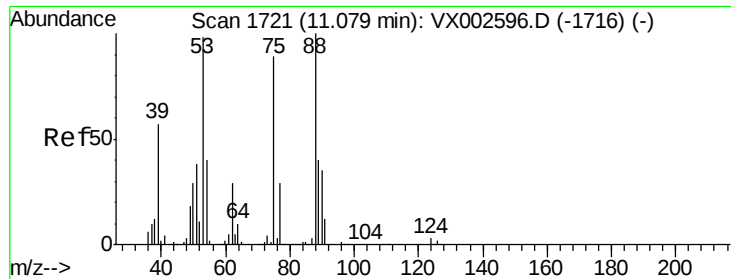
77 1.5 22.8 68.3#



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: 90.16 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX002737.D
 Acq: 20 Jun 2018 13:15

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion: 75 Resp: 90610
 Ion Ratio Lower Upper
 75 100
 53 0.2 86.8 130.2#
 89 0.0 38.2 57.2#

