

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX012619\
 Data File : VX007234.D
 Acq On : 25 Jan 2019 17:35
 Operator : JC/SP
 Sample : PB116609TB
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jan 28 00:16:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X010819W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 08 14:06:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	570180	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	864145	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	834961	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	407757	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	298831	50.15	ug/l	0.00
Spiked Amount			Recovery	=	100.30%	
35) Dibromofluoromethane	5.50	113	266419	48.14	ug/l	0.00
Spiked Amount			Recovery	=	96.28%	
50) Toluene-d8	8.71	98	1057049	52.18	ug/l	0.00
Spiked Amount			Recovery	=	104.36%	
62) 4-Bromofluorobenzene	11.13	95	377617	53.47	ug/l	0.00
Spiked Amount			Recovery	=	106.94%	

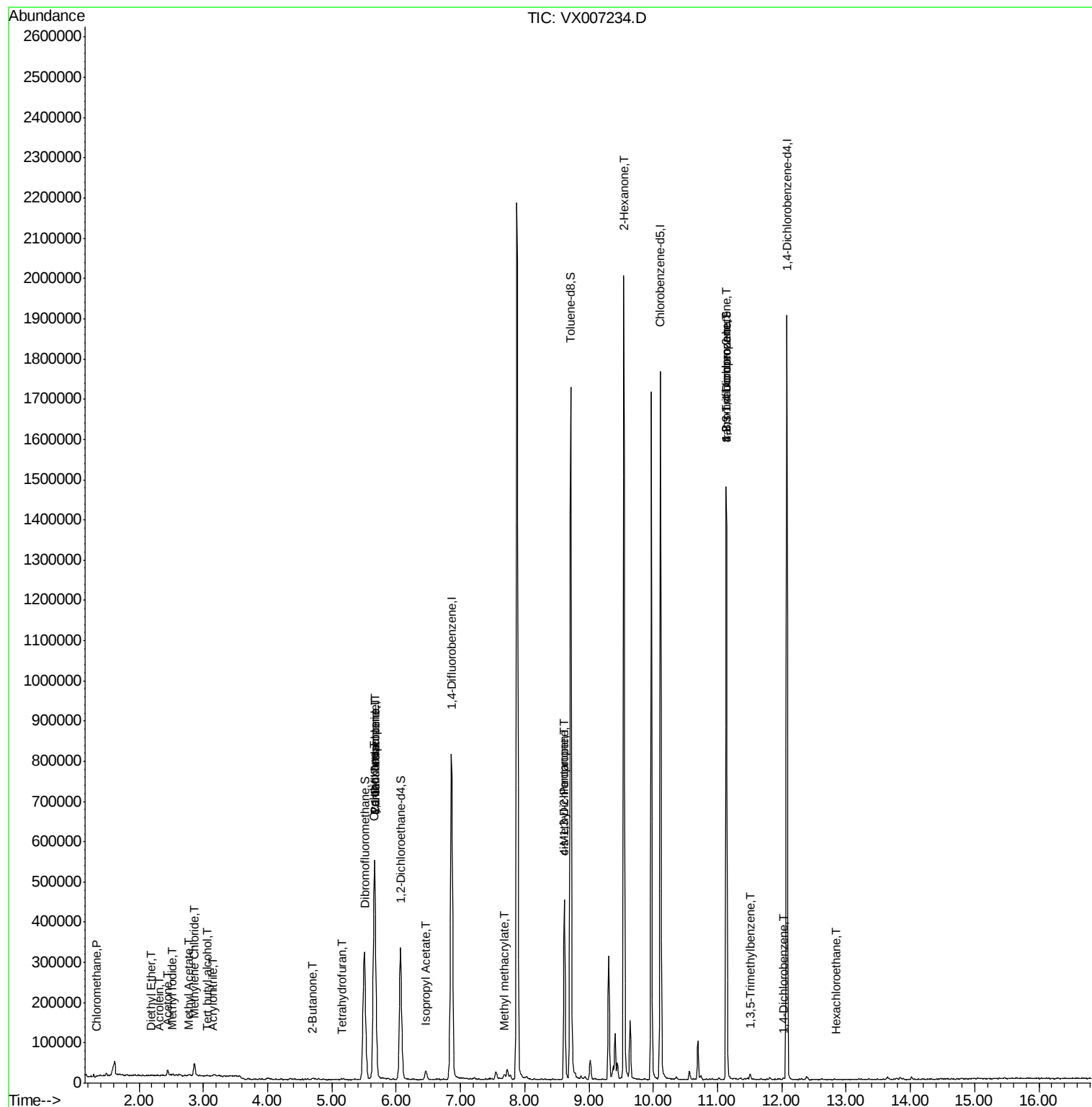
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	1251	0.230	ug/l #	81
8) Diethyl Ether	2.19	74	825	0.219	ug/l	68
10) Methyl Iodide	2.51	142	2564	0.335	ug/l #	71
11) Tert butyl alcohol	3.06	59	1478	1.051	ug/l #	25
13) Acrolein	2.31	56	533	3.952	ug/l #	81
15) Acrylonitrile	3.15	53	968	0.300	ug/l #	86
16) Acetone	2.45	43	17172	5.829	ug/l #	83
18) Methyl Acetate	2.78	43	3821	0.448	ug/l #	73
20) Methylene Chloride	2.85	84	15321	2.193	ug/l	95
25) 2-Butanone	4.70	43	6117	1.451	ug/l	95
29) Tetrahydrofuran	5.15	42	932	0.340	ug/l #	61
31) Cyclohexane	5.65	56	9493	1.130	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	37113	4.940	ug/l #	49
38) Carbon Tetrachloride	5.66	117	51926	6.869	ug/l #	14
43) Isopropyl Acetate	6.46	43	27818	2.190	ug/l	97
48) Methyl methacrylate	7.68	41	13603	2.085	ug/l #	12
49) 1,4-Dioxane	7.76	88	166	Below Cal	#	27
51) 4-Methyl-2-Pentanone	8.62	43	143340	17.555	ug/l #	48
54) cis-1,3-Dichloropropene	8.62	75	69971	8.288	ug/l #	64
59) 2-Hexanone	9.54	43	218592	35.131	ug/l #	51
76) 1,2,3-Trichloropropane	11.13	75	179369	21.707	ug/l #	40
80) 1,3,5-Trimethylbenzene	11.51	105	4880	0.203	ug/l	80
81) trans-1,4-Dichloro-2-buten	11.13	75	179369	64.337	ug/l #	10
88) 1,4-Dichlorobenzene	12.03	146	1424	0.250	ug/l	88
90) Hexachloroethane	12.85	117	72	2.925	ug/l	78

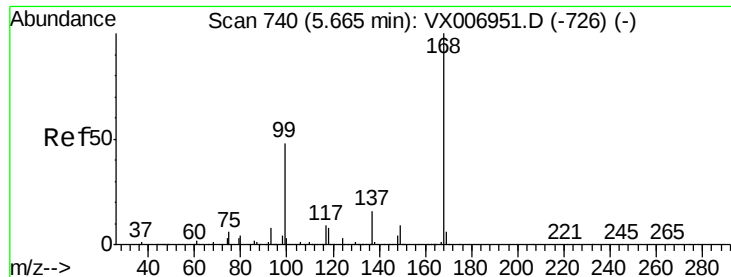
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX012619\
Data File : VX007234.D
Acq On : 25 Jan 2019 17:35
Operator : JC/SP
Sample : PB116609TB
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :

Quant Time: Jan 28 00:16:08 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X010819W.M
Quant Title : SW846 8260
QLast Update : Tue Jan 08 14:06:59 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX007234.D

Acq: 25 Jan 2019 17:35

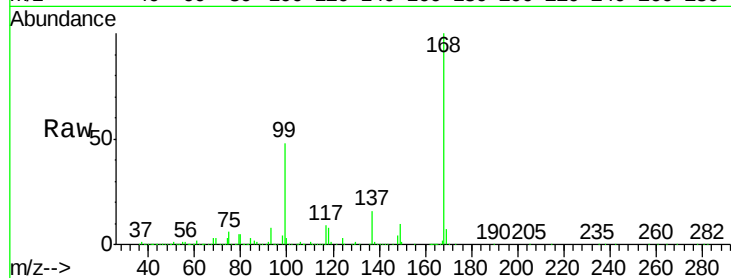
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 570180

Ion Ratio Lower Upper

168 100

99 47.6 41.8 62.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

200000

150000

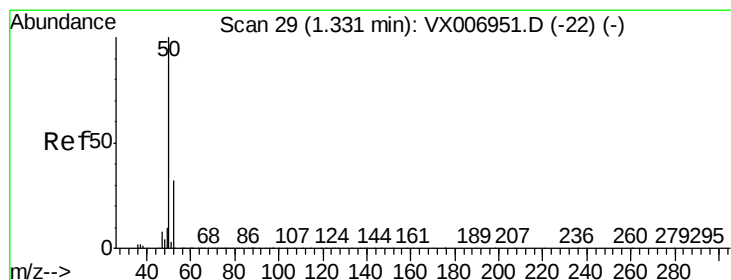
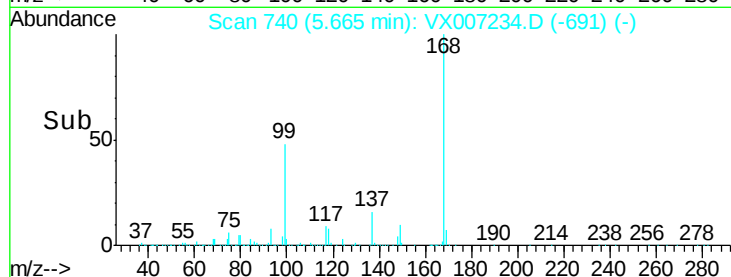
100000

50000

0

5.50 5.60 5.70 5.80

Time-->



#3

Chloromethane

Concen: 0.230 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.00 min

Lab File: VX007234.D

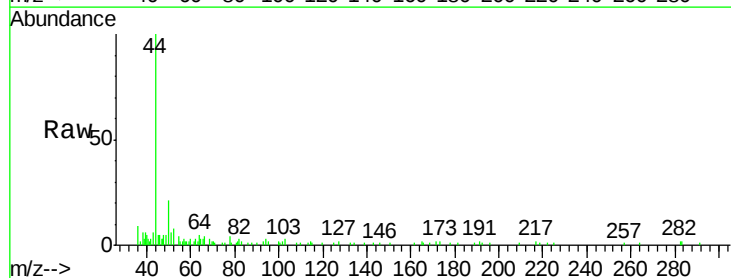
Acq: 25 Jan 2019 17:35

Tgt Ion: 50 Resp: 1251

Ion Ratio Lower Upper

50 100

52 21.1 25.4 38.2#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1200

1000

800

600

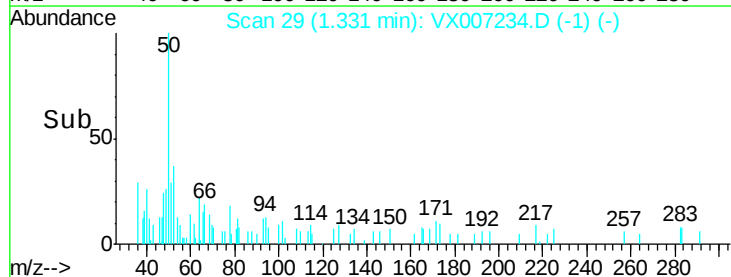
400

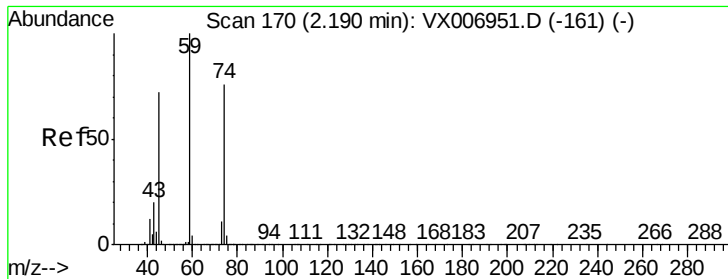
200

0

1.30 1.32 1.34 1.36

Time-->





#8

Diethyl Ether

Concen: 0.219 ug/l

RT: 2.19 min Scan# 170

Delta R.T. 0.00 min

Lab File: VX007234.D

Acq: 25 Jan 2019 17:35

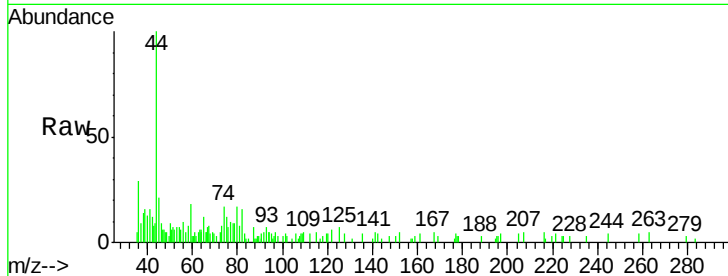
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 74 Resp: 825

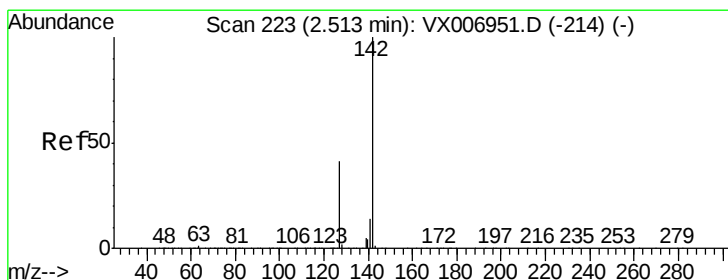
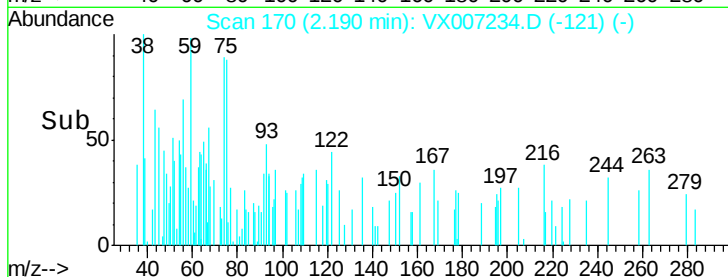
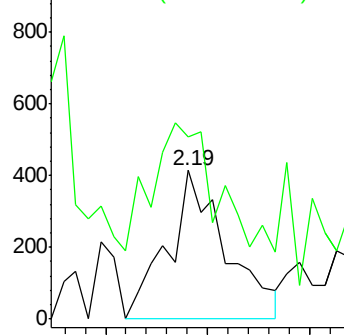
Ion Ratio Lower Upper

74 100

45 122.8 46.3 138.9



Abundance Ion 74.00 (73.70 to 74.70): VX0
Ion 45.00 (44.70 to 45.70): VX0



#10

Methyl Iodide

Concen: 0.335 ug/l

RT: 2.51 min Scan# 223

Delta R.T. 0.00 min

Lab File: VX007234.D

Acq: 25 Jan 2019 17:35

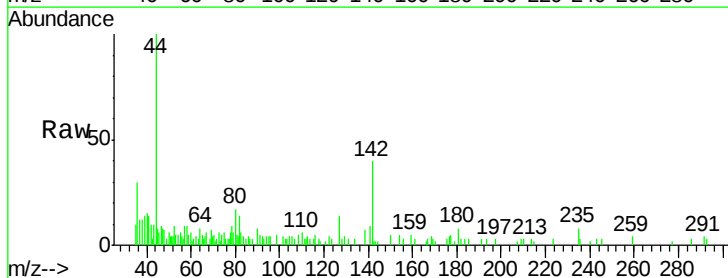
Tgt Ion: 142 Resp: 2564

Ion Ratio Lower Upper

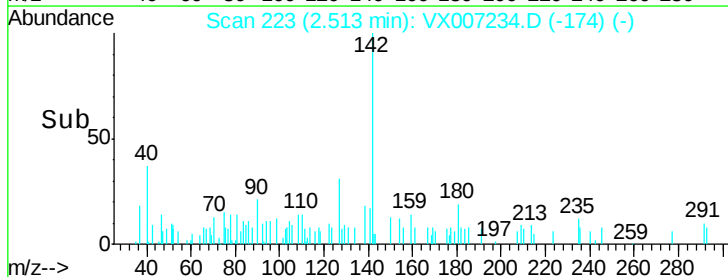
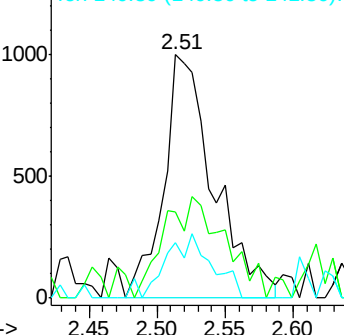
142 100

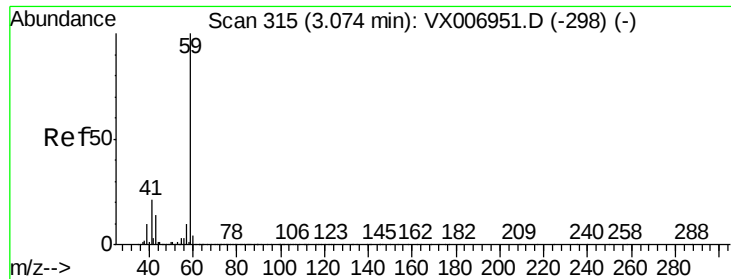
127 19.9 33.9 50.9#

141 10.5 11.4 17.0#



Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

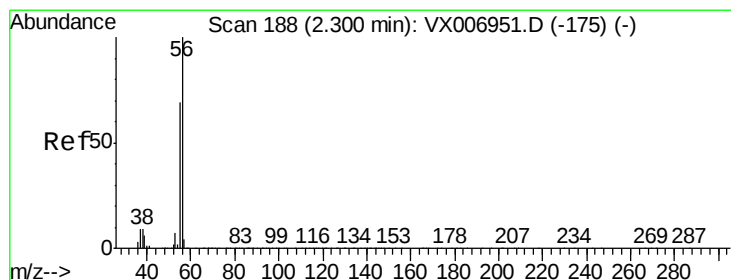
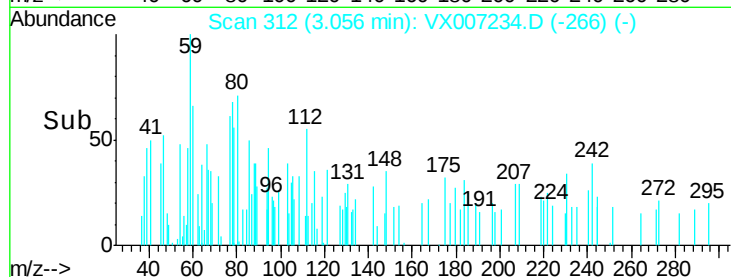
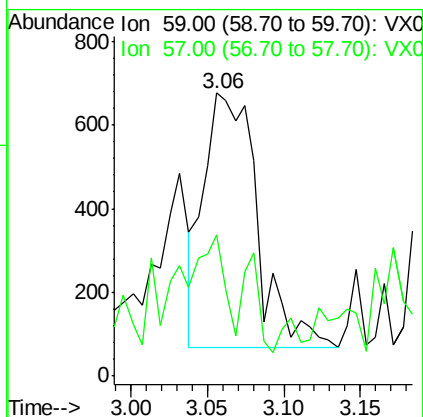
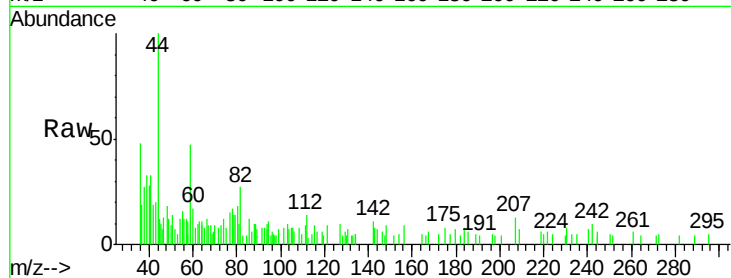




#11
Tert butyl alcohol
Concen: 1.051 ug/l
RT: 3.06 min Scan# 312
Delta R.T. -0.02 min
Lab File: VX007234.D
Acq: 25 Jan 2019 17:35

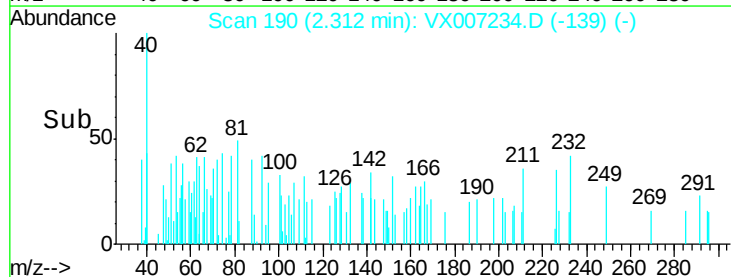
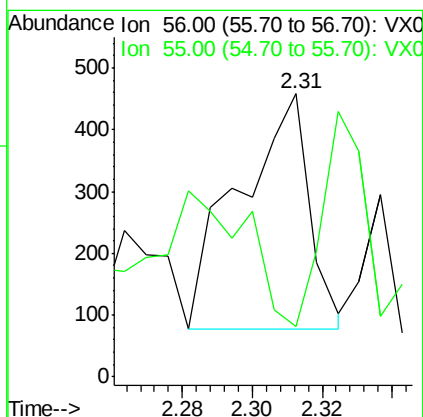
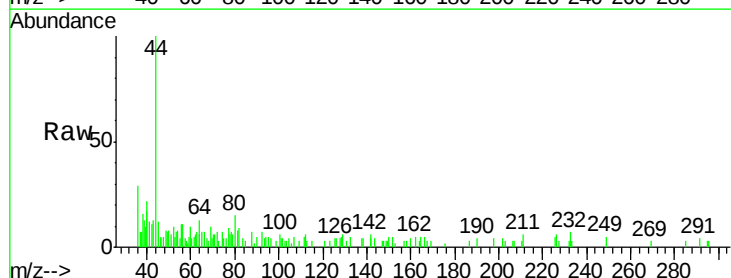
Instrument :
MSVOA_X
ClientSampled :

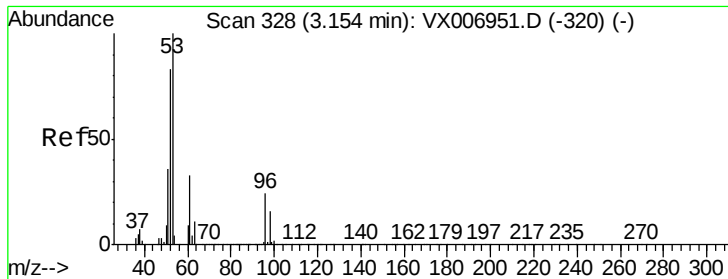
Tot Ion: 59 Resp: 1478
Ion Ratio Lower Upper
59 100
57 38.7 8.5 12.7#



#13
Acrolein
Concen: 3.952 ug/l
RT: 2.31 min Scan# 190
Delta R.T. 0.01 min
Lab File: VX007234.D
Acq: 25 Jan 2019 17:35

Tgt Ion: 56 Resp: 533
Ion Ratio Lower Upper
56 100
55 57.2 58.2 87.4#





#15

Acrylonitrile

Concen: 0.300 ug/l

RT: 3.15 min Scan# 327

Delta R.T. -0.01 min

Lab File: VX007234.D

Acq: 25 Jan 2019 17:35

Instrument :

MSVOA_X

ClientSampled :

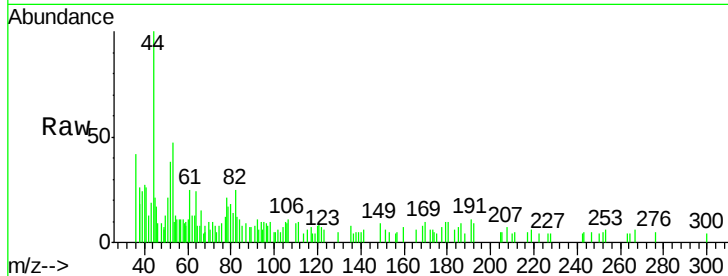
Tot Ion: 53 Resp: 968

Ion Ratio Lower Upper

53 100

52 94.5 66.0 99.0

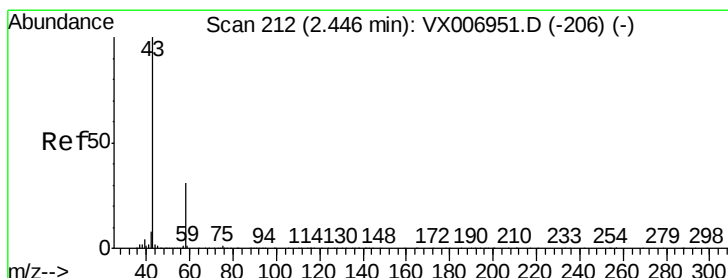
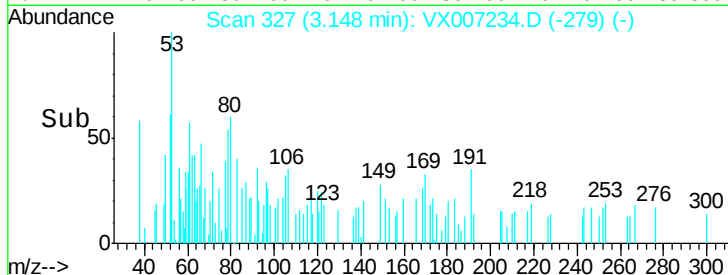
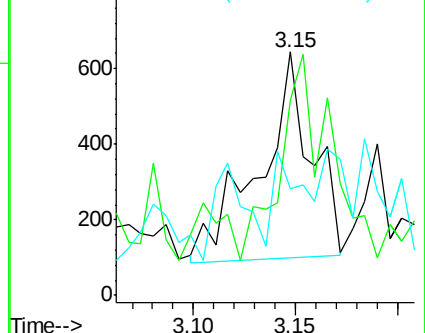
51 25.7 28.6 42.8#



Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



#16

Acetone

Concen: 5.829 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX007234.D

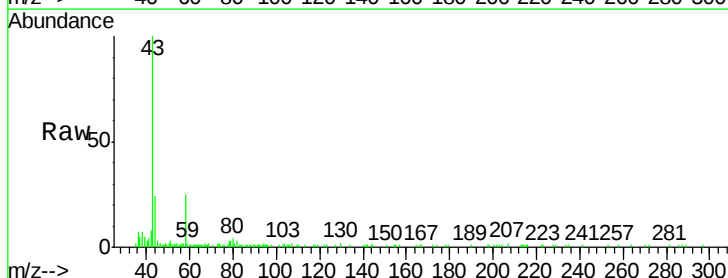
Acq: 25 Jan 2019 17:35

Tgt Ion: 43 Resp: 17172

Ion Ratio Lower Upper

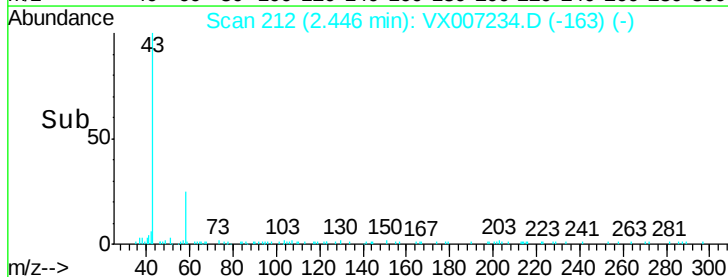
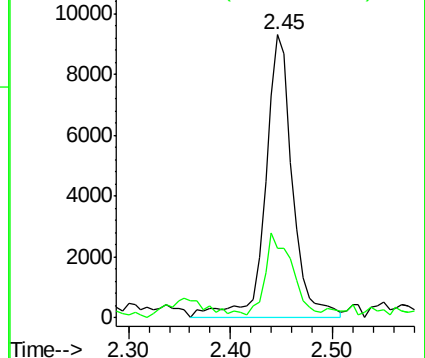
43 100

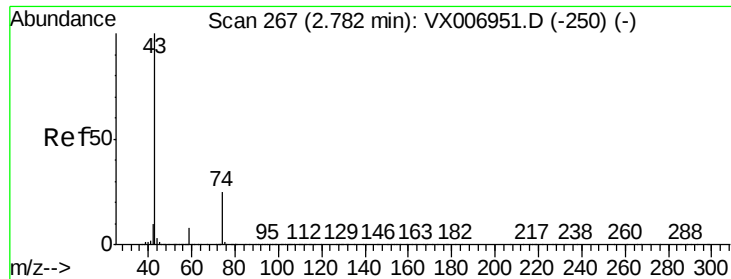
58 22.1 25.0 37.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#18

Methyl Acetate

Concen: 0.448 ug/l

RT: 2.78 min Scan# 267

Delta R.T. 0.00 min

Lab File: VX007234.D

Acq: 25 Jan 2019 17:35

Instrument :

MSVOA_X

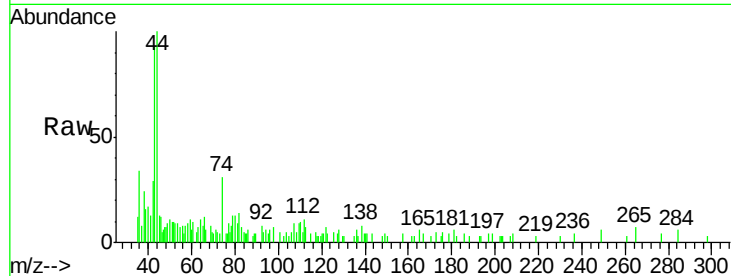
ClientSampleId :

Tot Ion: 43 Resp: 3821

Ion Ratio Lower Upper

43 100

74 36.4 18.6 28.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

2000

1500

1000

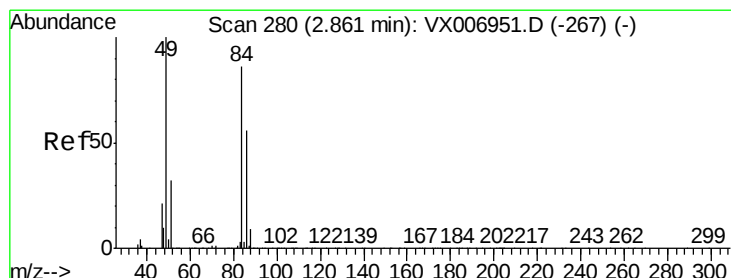
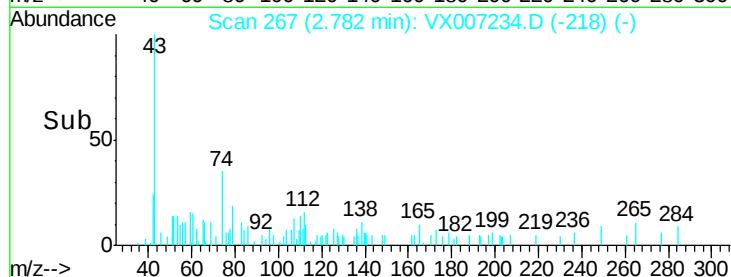
500

0

Time-->

2.75

2.80



#20

Methylene Chloride

Concen: 2.193 ug/l

RT: 2.85 min Scan# 279

Delta R.T. -0.01 min

Lab File: VX007234.D

Acq: 25 Jan 2019 17:35

Tgt Ion: 84 Resp: 15321

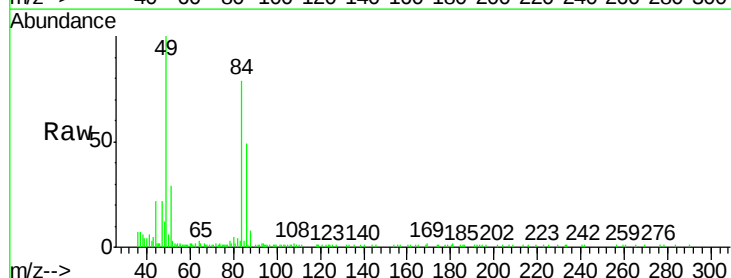
Ion Ratio Lower Upper

84 100

49 124.5 91.8 137.6

51 34.9 28.5 42.7

86 62.3 50.2 75.2



Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0

15000

10000

5000

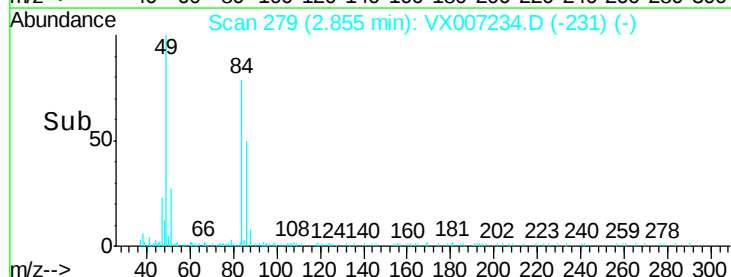
0

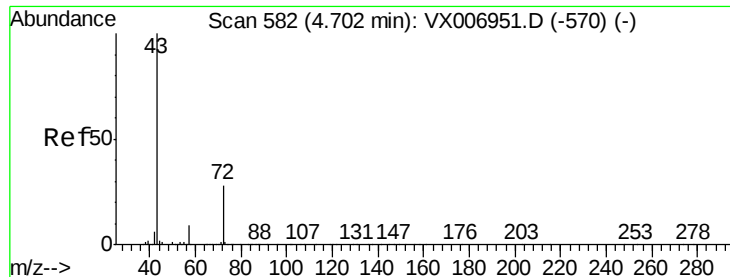
Time-->

2.80

2.90

3.00





#25

2-Butanone

Concen: 1.451 ug/l

RT: 4.70 min Scan# 582

Delta R.T. 0.00 min

Lab File: VX007234.D

Acq: 25 Jan 2019 17:35

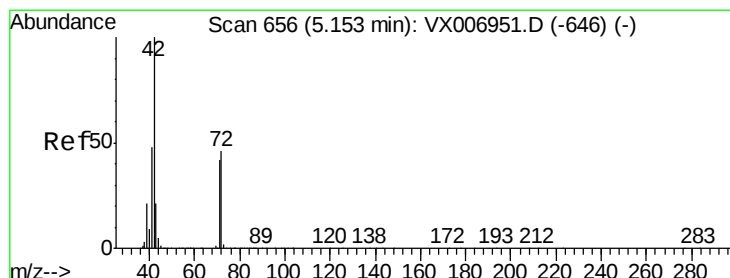
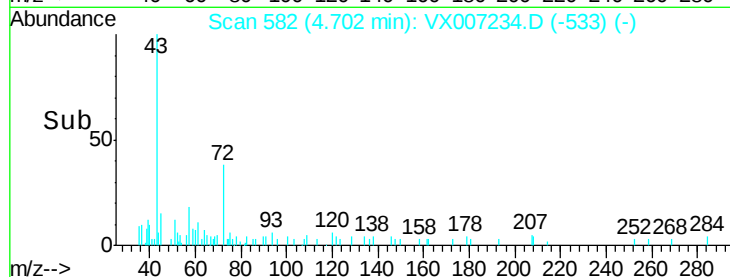
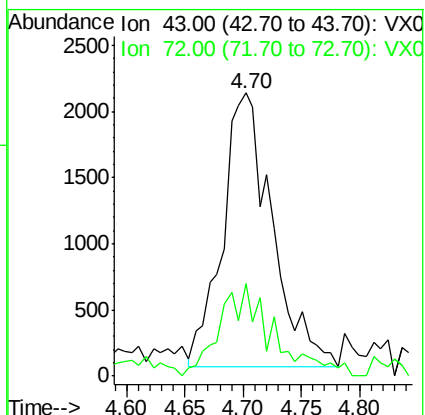
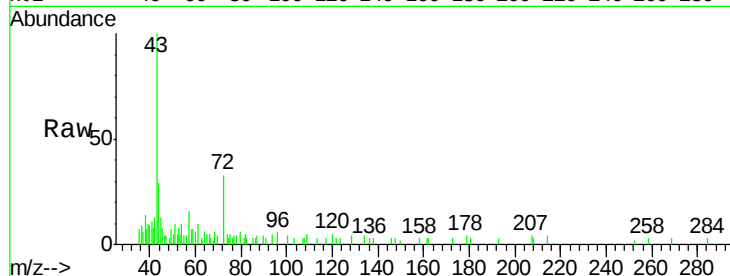
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 43 Resp: 6117

Ion Ratio Lower Upper

43 100

72 30.8 22.4 33.6



#29

Tetrahydrofuran

Concen: 0.340 ug/l

RT: 5.15 min Scan# 656

Delta R.T. 0.00 min

Lab File: VX007234.D

Acq: 25 Jan 2019 17:35

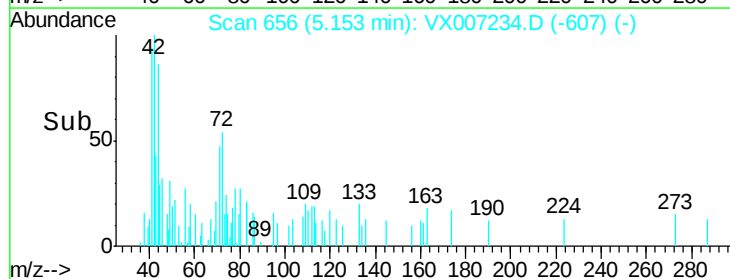
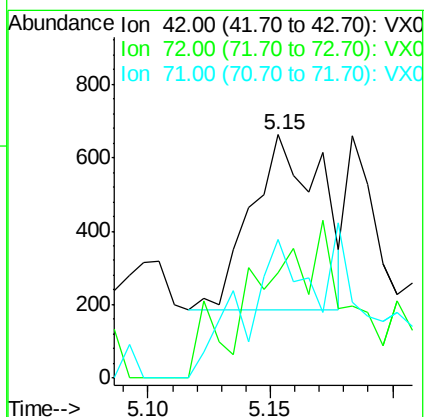
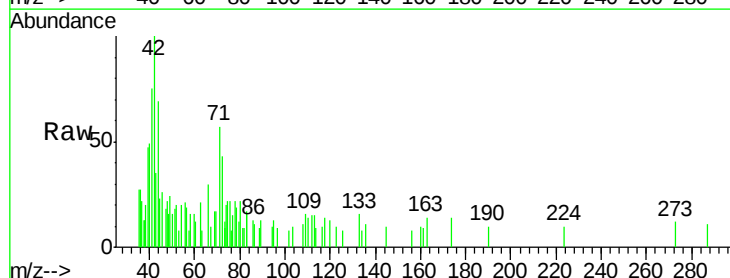
Tgt Ion: 42 Resp: 932

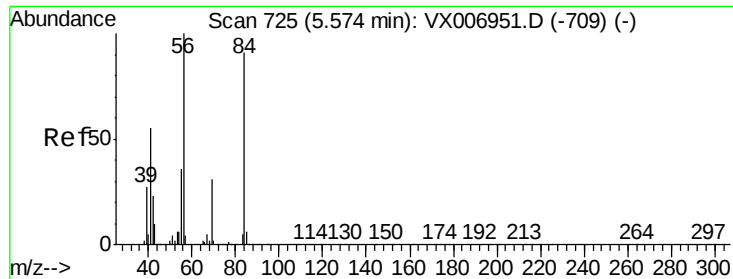
Ion Ratio Lower Upper

42 100

72 70.0 38.9 58.3#

71 76.2 36.2 54.4#

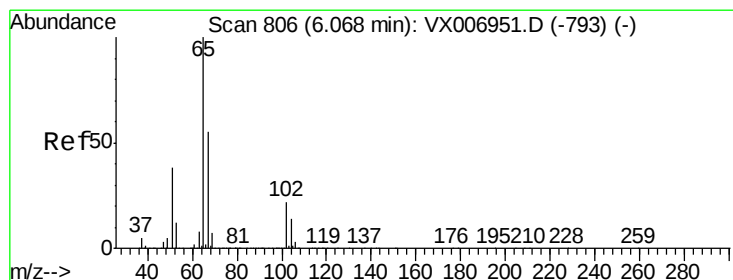
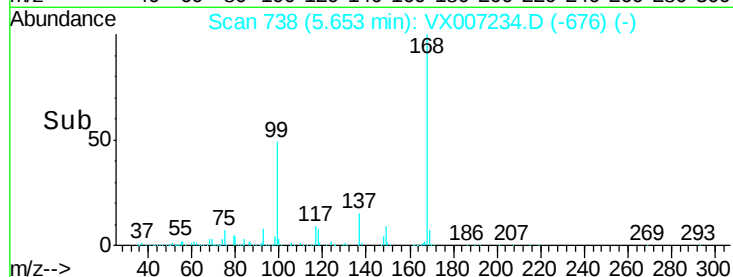
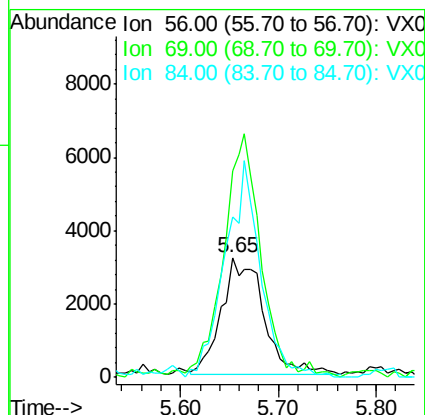
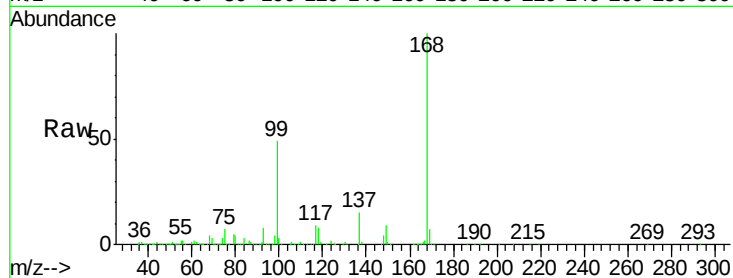




#31
Cyclohexane
Concen: 1.130 ug/l
RT: 5.65 min Scan# 738
Delta R.T. 0.08 min
Lab File: VX007234.D
Acq: 25 Jan 2019 17:35

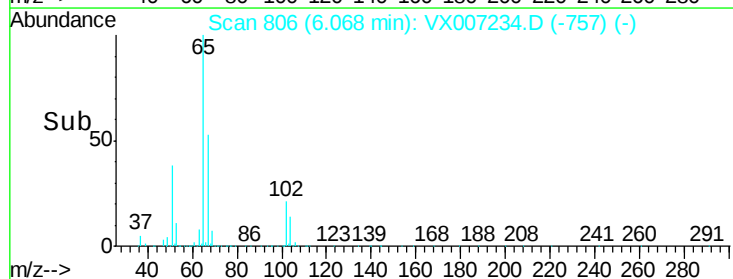
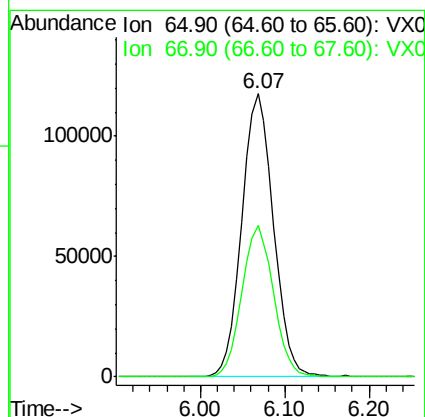
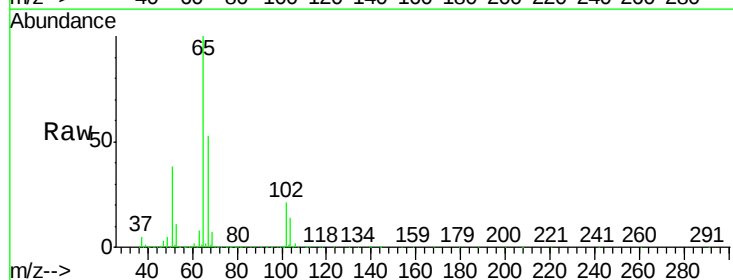
Instrument :
MSVOA_X
ClientSampled :

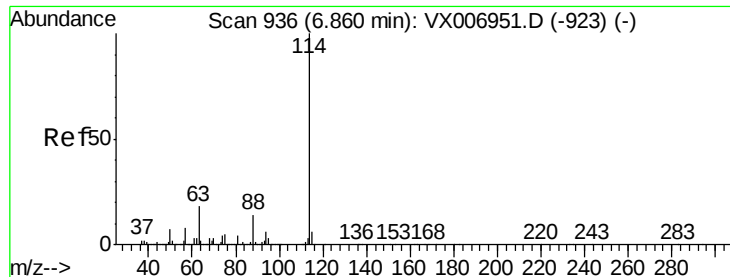
Tot Ion: 56 Resp: 9493
Ion Ratio Lower Upper
56 100
69 177.3 24.4 36.6#
84 137.8 70.0 105.0#



#33
1,2-Dichloroethane-d4
Concen: 50.149 ug/l
RT: 6.07 min Scan# 806
Delta R.T. 0.00 min
Lab File: VX007234.D
Acq: 25 Jan 2019 17:35

Tgt Ion: 65 Resp: 298831
Ion Ratio Lower Upper
65 100
67 53.2 0.0 105.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX007234.D

Acq: 25 Jan 2019 17:35

Instrument :

MSVOA_X

ClientSampled :

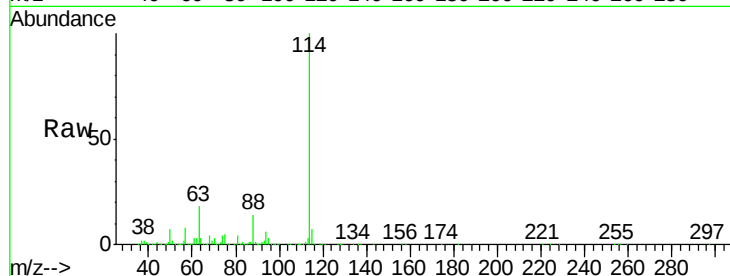
Tot Ion:114 Resp: 864145

Ion Ratio Lower Upper

114 100

63 18.3 0.0 34.8

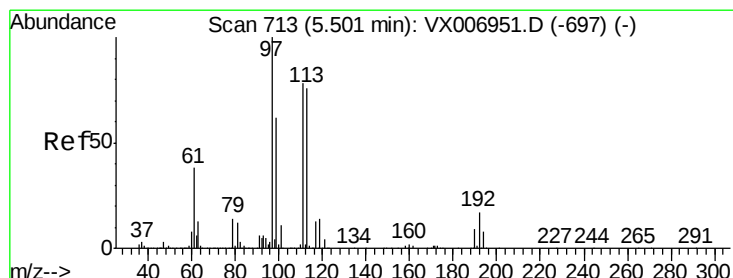
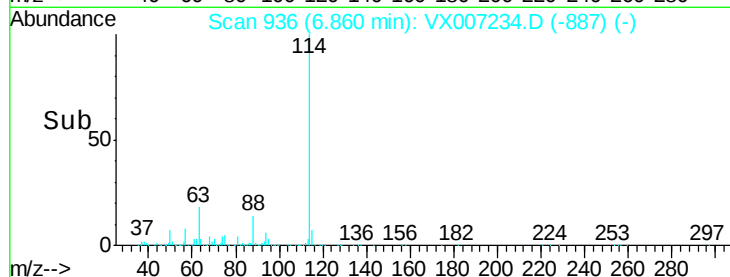
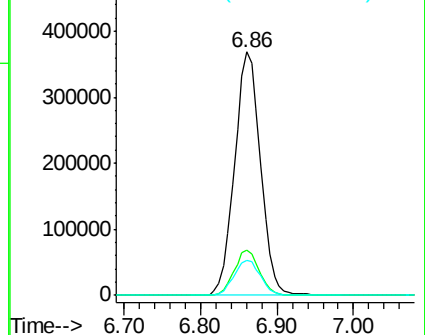
88 14.3 0.0 28.8



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: 48.143 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX007234.D

Acq: 25 Jan 2019 17:35

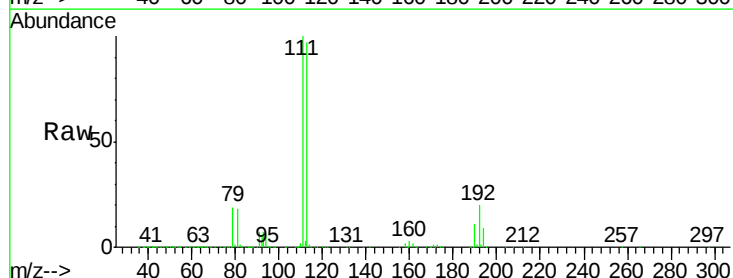
Tgt Ion:113 Resp: 266419

Ion Ratio Lower Upper

113 100

111 103.4 81.6 122.4

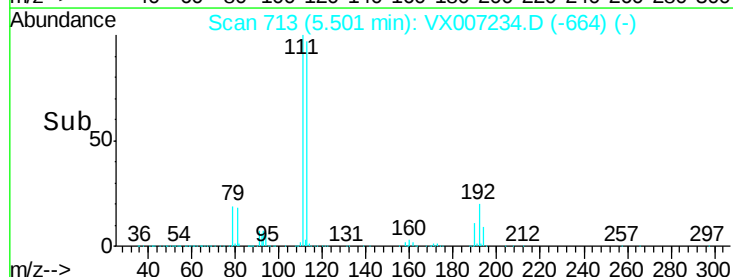
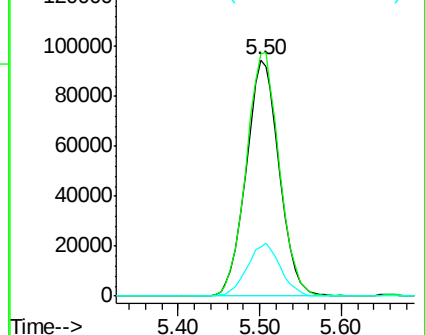
192 22.4 16.7 25.1

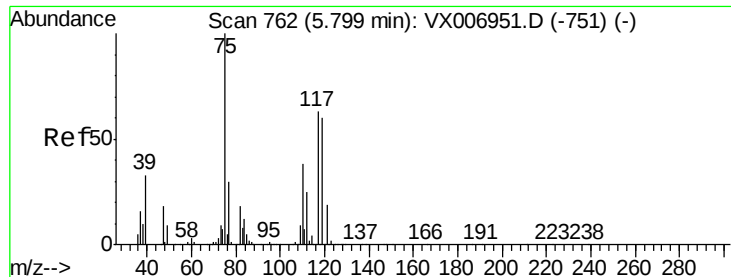


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.940 ug/l

RT: 5.66 min Scan# 739

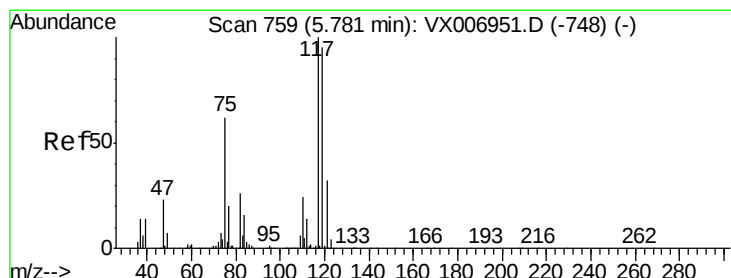
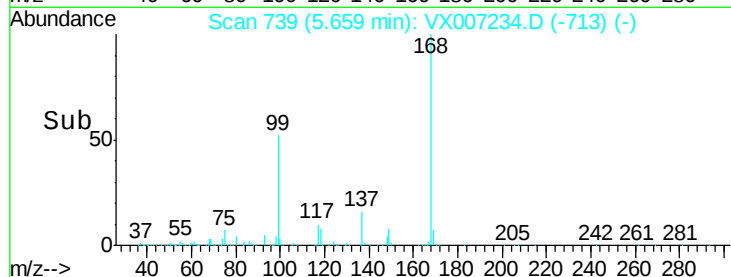
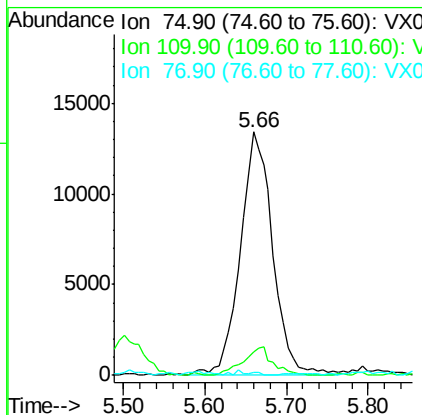
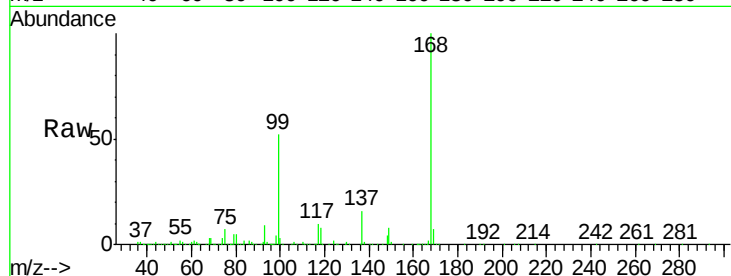
Delta R.T. -0.14 min

Lab File: VX007234.D

Acq: 25 Jan 2019 17:35

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:	75	Resp:	37113
Ion	Ratio	Lower	Upper
75	100		
110	10.6	20.2	60.5#
77	0.4	24.8	37.2#



#38

Carbon Tetrachloride

Concen: 6.869 ug/l

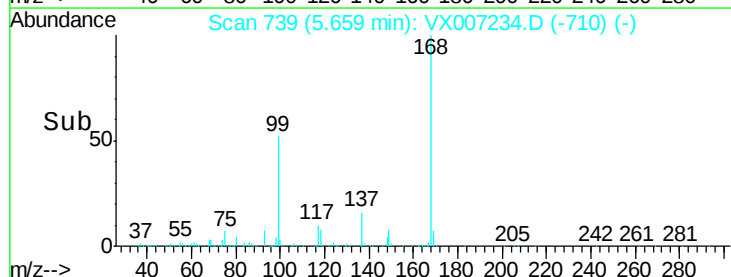
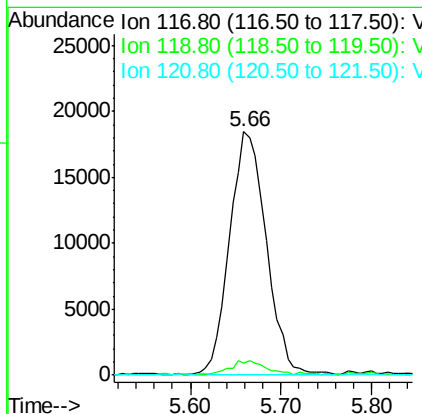
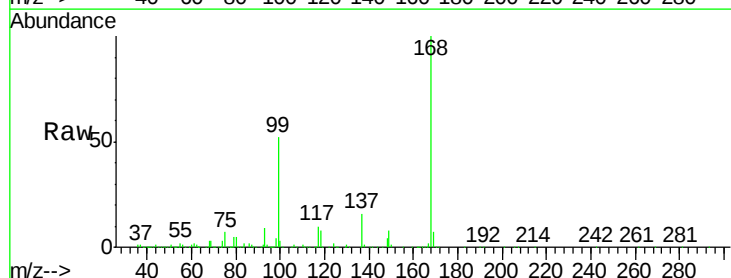
RT: 5.66 min Scan# 739

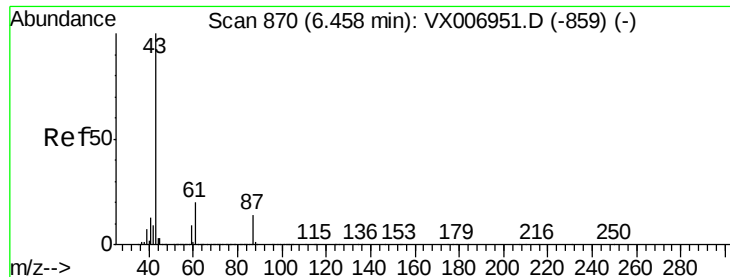
Delta R.T. -0.12 min

Lab File: VX007234.D

Acq: 25 Jan 2019 17:35

Tgt Ion:	117	Resp:	51926
Ion	Ratio	Lower	Upper
117	100		
119	4.8	79.4	119.2#
121	0.0	24.0	36.0#



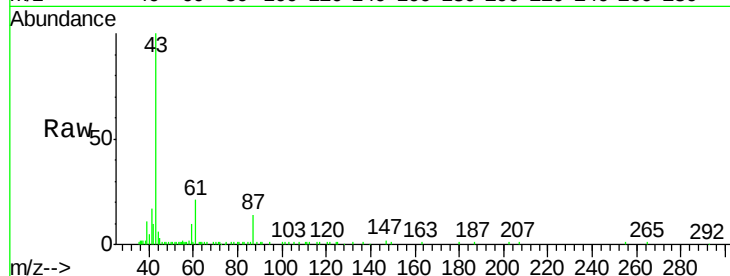


#43

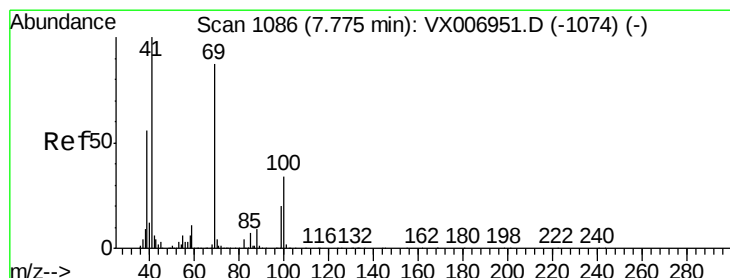
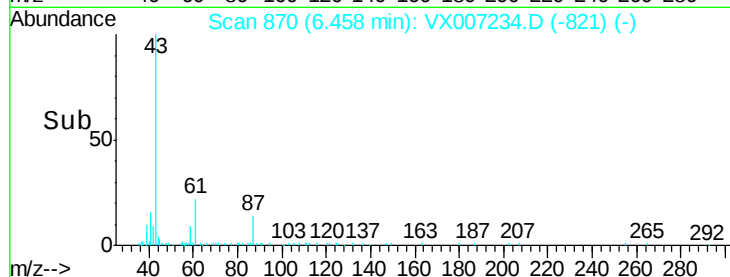
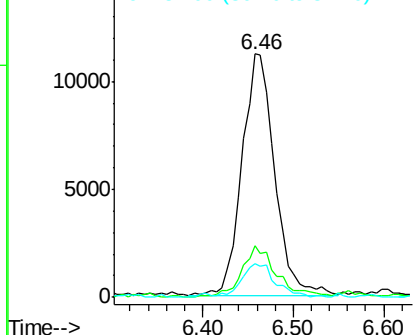
Isopropyl Acetate
 Concen: 2.190 ug/l
 RT: 6.46 min Scan# 870
 Delta R.T. 0.00 min
 Lab File: VX007234.D
 Acq: 25 Jan 2019 17:35

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
43	100		
61	23.0	16.8	25.2
87	14.5	12.4	18.6



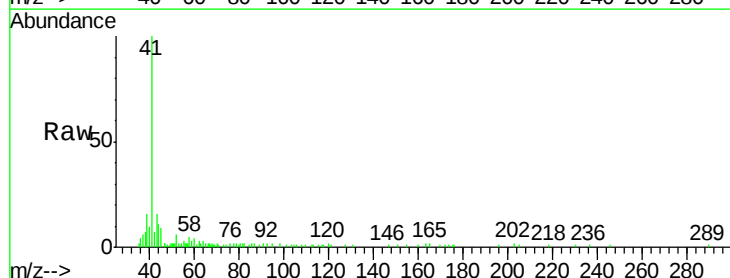
Abundance Ion 43.00 (42.70 to 43.70): VX0
 Ion 61.00 (60.70 to 61.70): VX0
 Ion 87.00 (86.70 to 87.70): VX0



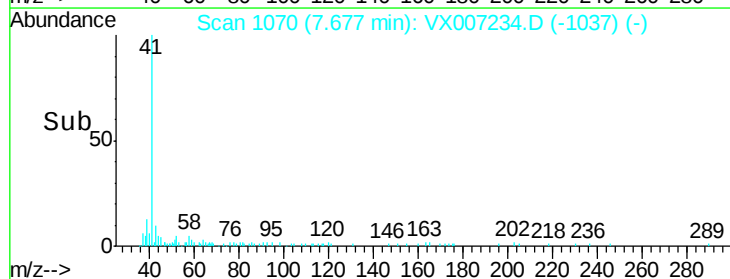
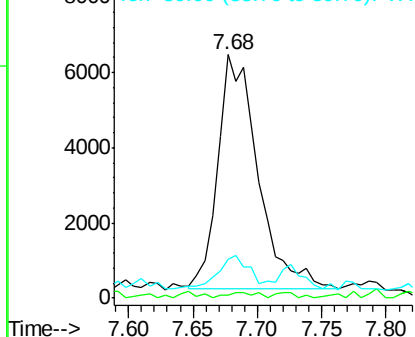
#48

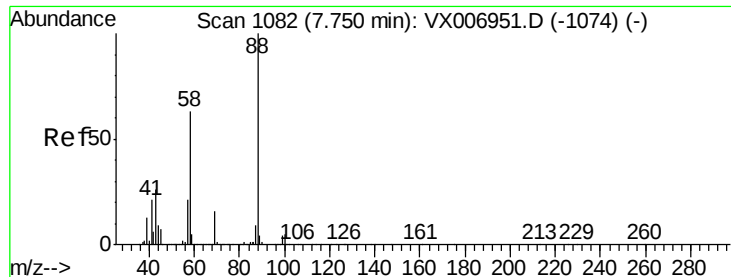
Methyl methacrylate
 Concen: 2.085 ug/l
 RT: 7.68 min Scan# 1070
 Delta R.T. -0.10 min
 Lab File: VX007234.D
 Acq: 25 Jan 2019 17:35

Tgt Ion	Ratio	Lower	Upper
41	100		
69	1.8	72.4	108.6#
39	0.0	45.8	68.8#



Abundance Ion 41.00 (40.70 to 41.70): VX0
 Ion 69.00 (68.70 to 69.70): VX0
 Ion 39.00 (38.70 to 39.70): VX0





#49

1,4-Dioxane

Concen: Below Cal

RT: 7.76 min Scan# 1084

Delta R.T. 0.01 min

Lab File: VX007234.D

Acq: 25 Jan 2019 17:35

Instrument :

MSVOA_X

ClientSampleId :

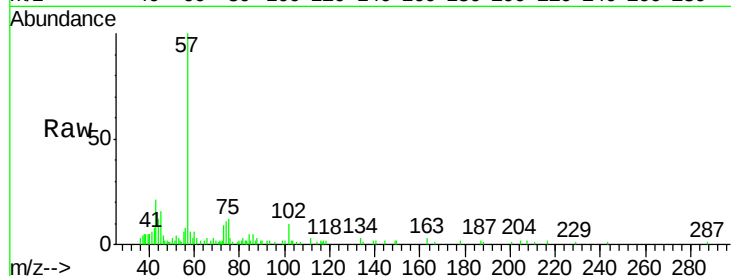
Tot Ion: 88 Resp: 166

Ion Ratio Lower Upper

88 100

43 0.0 22.2 33.4#

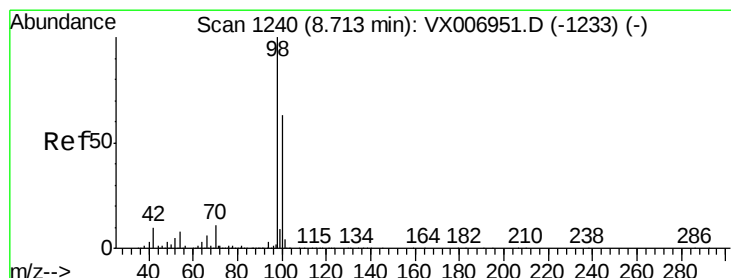
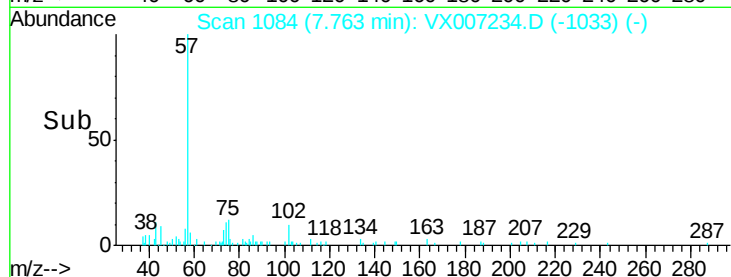
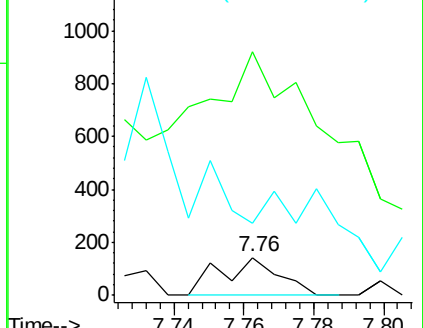
58 0.0 51.0 76.4#



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: 52.185 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX007234.D

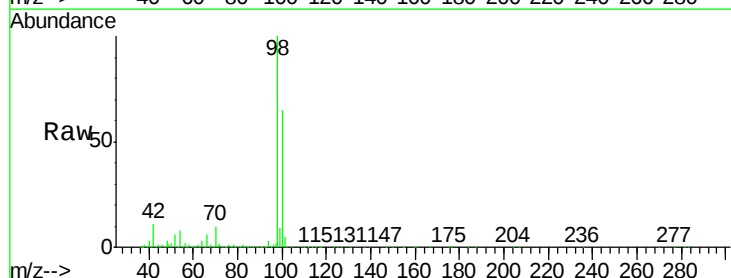
Acq: 25 Jan 2019 17:35

Tgt Ion: 98 Resp: 1057049

Ion Ratio Lower Upper

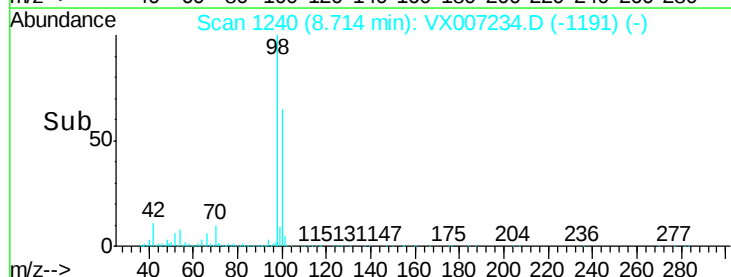
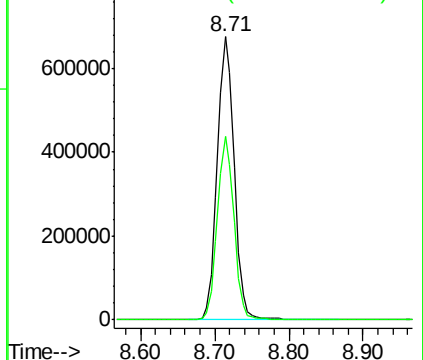
98 100

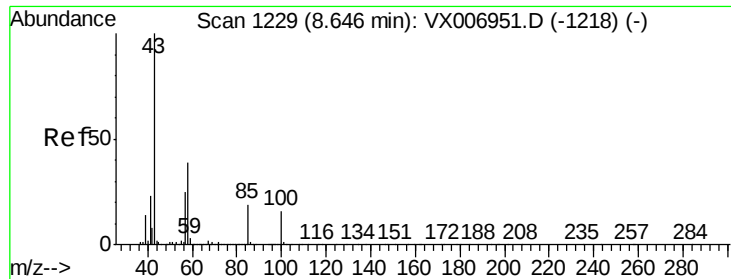
100 63.9 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#51

4-Methyl-2-Pentanone

Concen: 17.555 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. -0.03 min

Lab File: VX007234.D

Acq: 25 Jan 2019 17:35

Instrument :

MSVOA_X

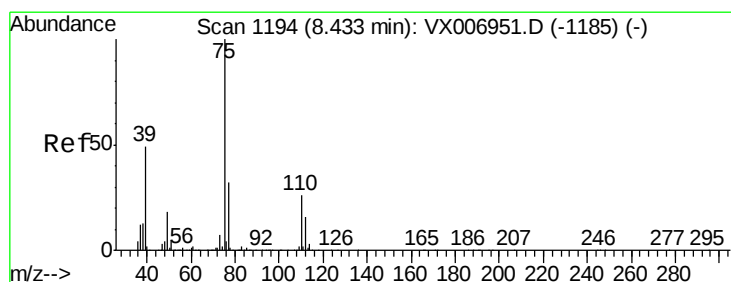
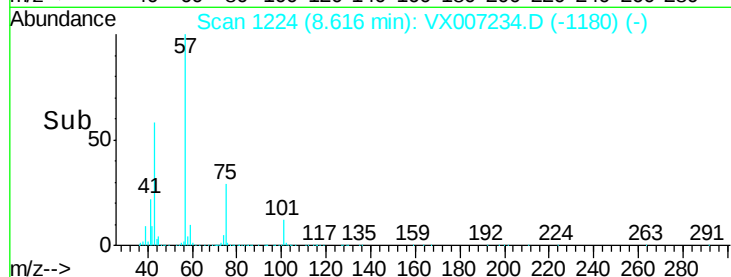
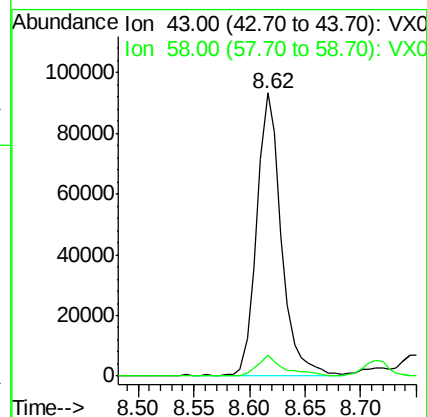
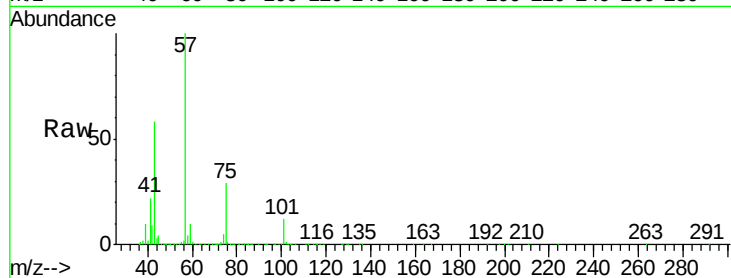
ClientSampled :

Tot Ion: 43 Resp: 143340

Ion Ratio Lower Upper

43 100

58 7.9 31.8 47.6#



#54

cis-1,3-Dichloropropene

Concen: 8.288 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. 0.18 min

Lab File: VX007234.D

Acq: 25 Jan 2019 17:35

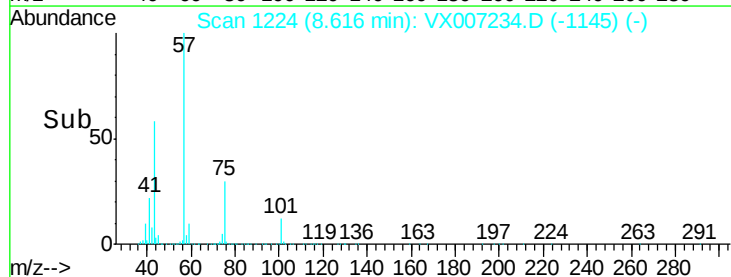
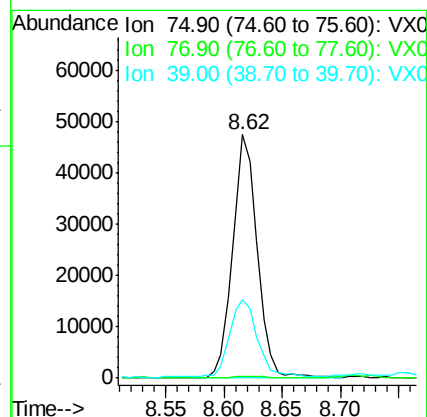
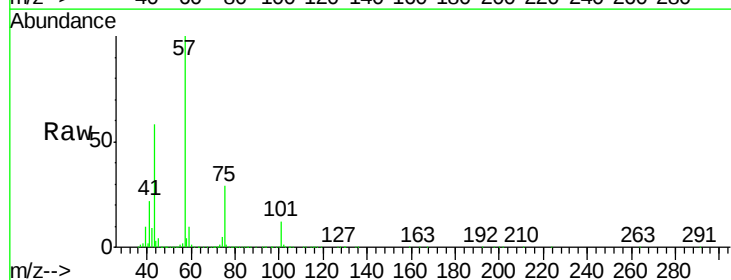
Tgt Ion: 75 Resp: 69971

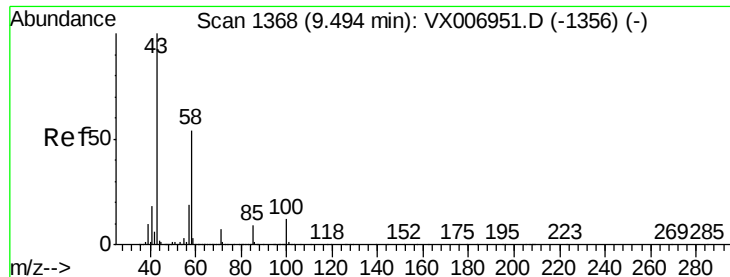
Ion Ratio Lower Upper

75 100

77 0.4 26.2 39.2#

39 31.6 36.7 55.1#





#59

2-Hexanone

Concen: 35.131 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.05 min

Lab File: VX007234.D

Acq: 25 Jan 2019 17:35

Instrument :

MSVOA_X

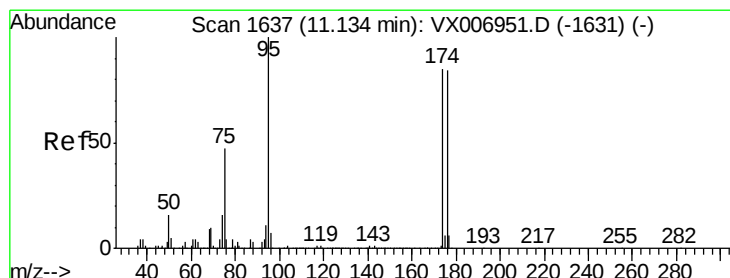
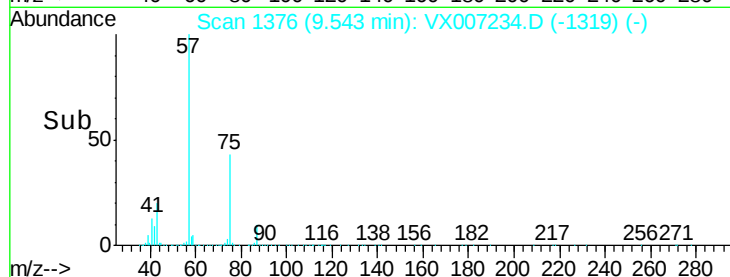
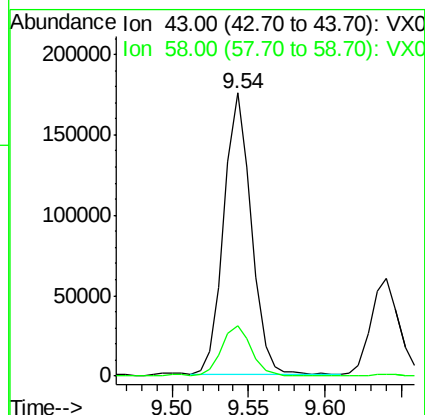
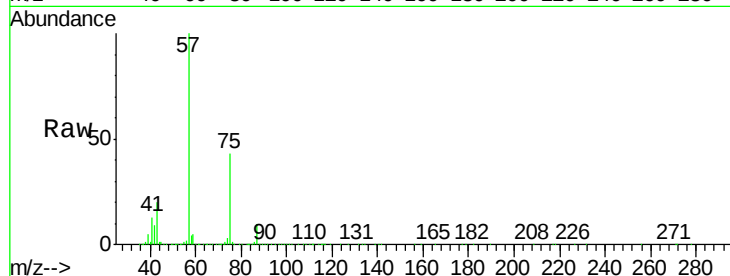
ClientSampleId :

Tot Ion: 43 Resp: 218592

Ion Ratio Lower Upper

43 100

58 19.6 27.7 83.1#



#62

4-Bromofluorobenzene

Concen: 53.474 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX007234.D

Acq: 25 Jan 2019 17:35

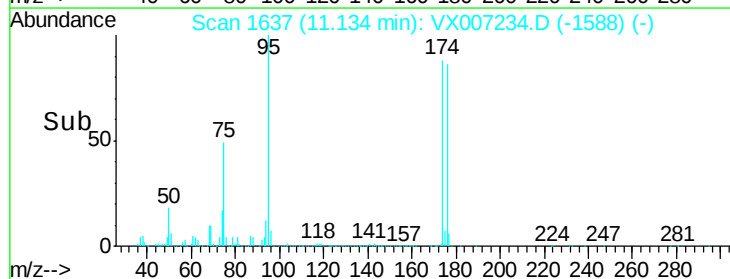
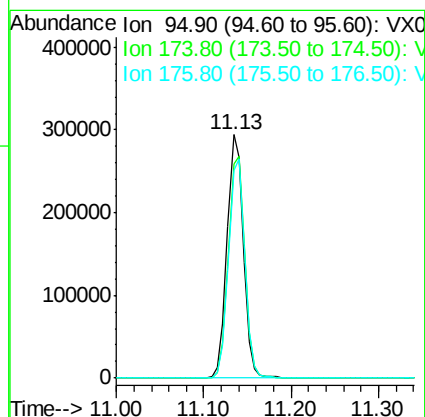
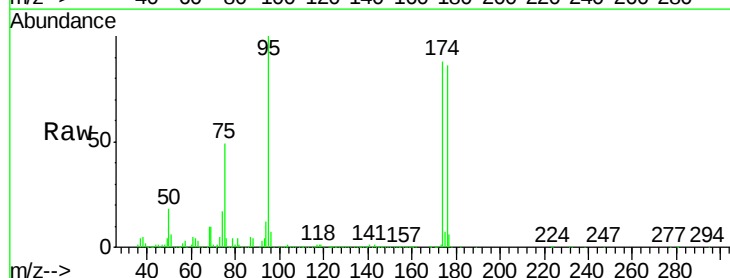
Tgt Ion: 95 Resp: 377617

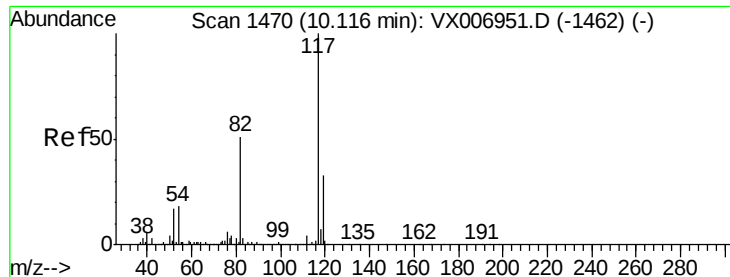
Ion Ratio Lower Upper

95 100

174 93.0 0.0 182.2

176 90.8 0.0 178.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.01 min

Lab File: VX007234.D

Acq: 25 Jan 2019 17:35

Instrument :

MSVOA_X

ClientSampleId :

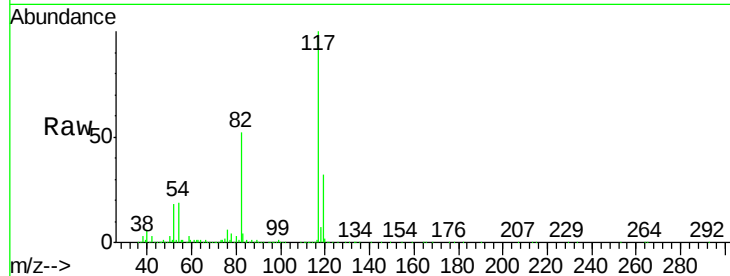
Tot Ion:117 Resp: 834961

Ion Ratio Lower Upper

117 100

82 51.8 41.0 61.6

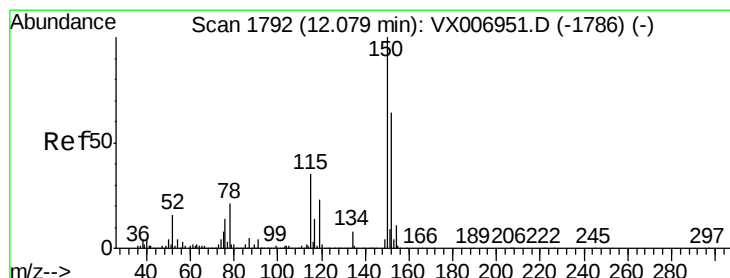
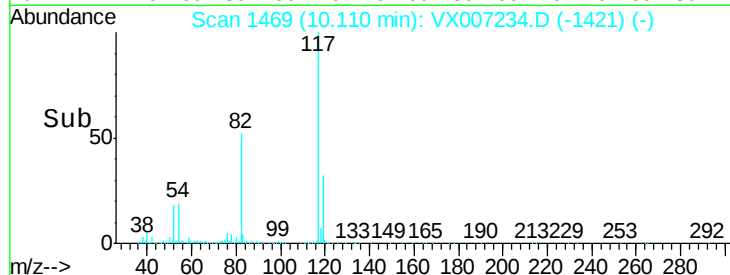
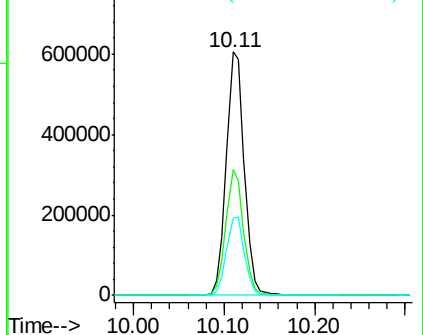
119 31.6 25.4 38.0



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX007234.D

Acq: 25 Jan 2019 17:35

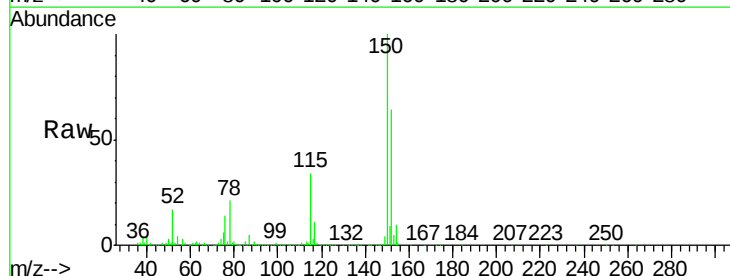
Tgt Ion:152 Resp: 407757

Ion Ratio Lower Upper

152 100

115 54.4 39.1 117.2

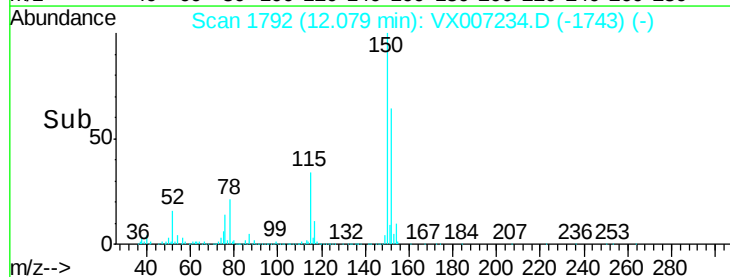
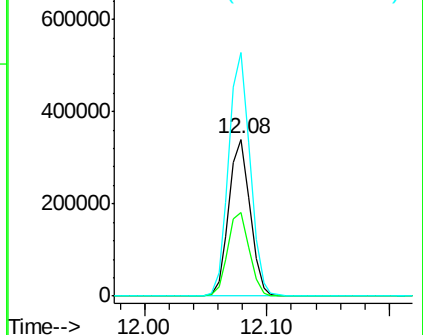
150 156.1 0.0 344.8

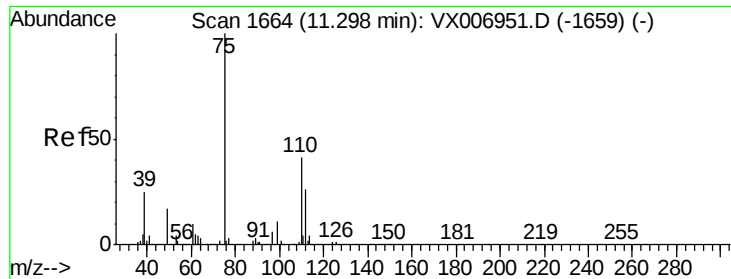


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 21.707 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX007234.D

Acq: 25 Jan 2019 17:35

Instrument :

MSVOA_X

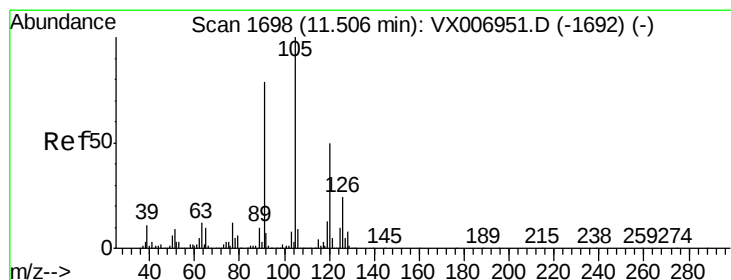
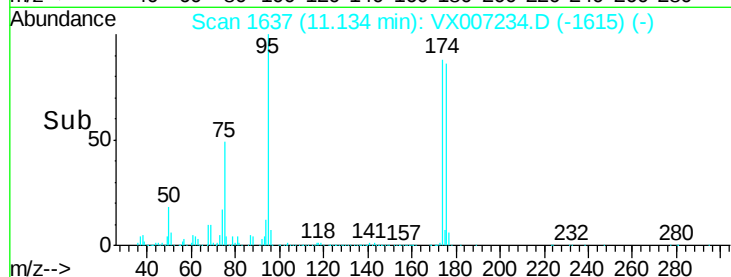
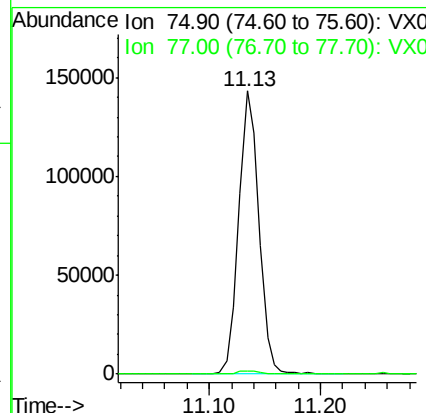
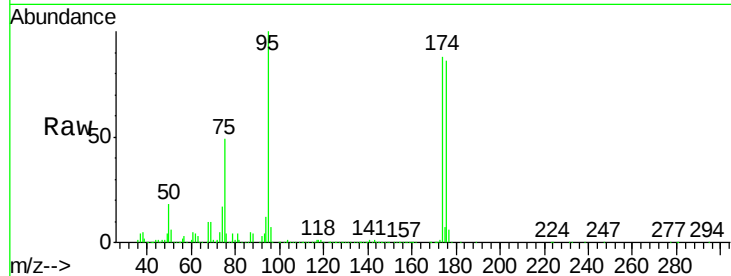
ClientSampleId :

Tot Ion: 75 Resp: 179369

Ion Ratio Lower Upper

75 100

77 1.3 18.5 55.5#



#80

1,3,5-Trimethylbenzene

Concen: 0.203 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. 0.00 min

Lab File: VX007234.D

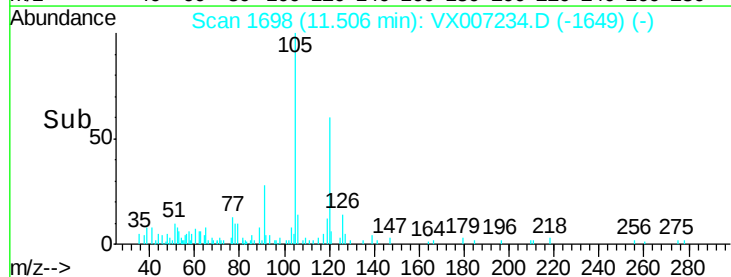
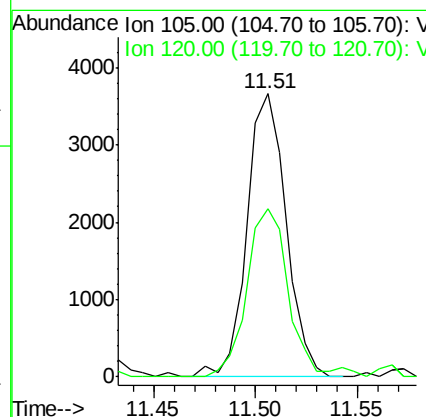
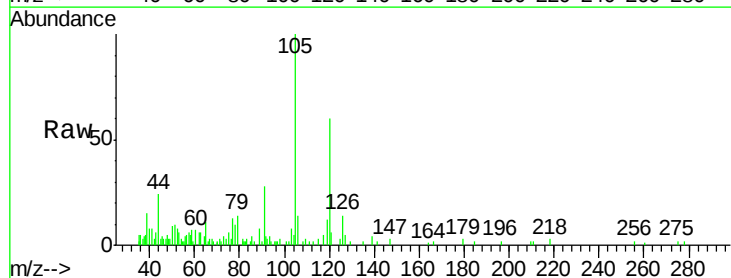
Acq: 25 Jan 2019 17:35

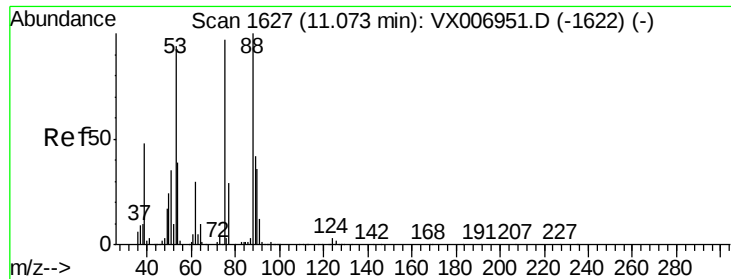
Tgt Ion: 105 Resp: 4880

Ion Ratio Lower Upper

105 100

120 63.8 25.1 75.3





#81

trans-1,4-Dichloro-2-butene

Concen: 64.337 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007234.D

Acq: 25 Jan 2019 17:35

Instrument :

MSVOA_X

ClientSampleId :

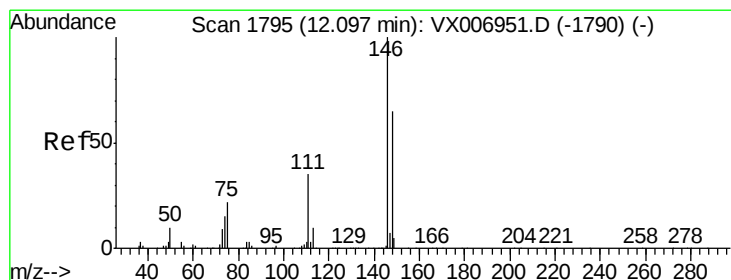
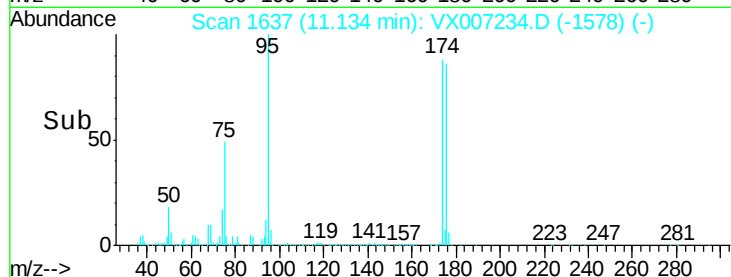
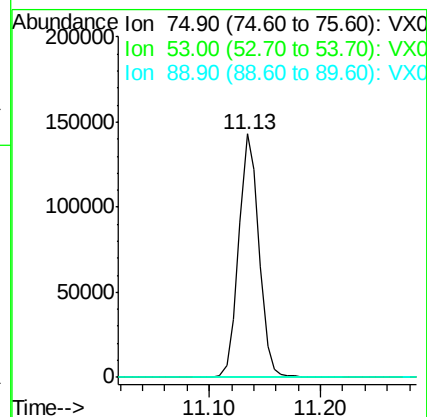
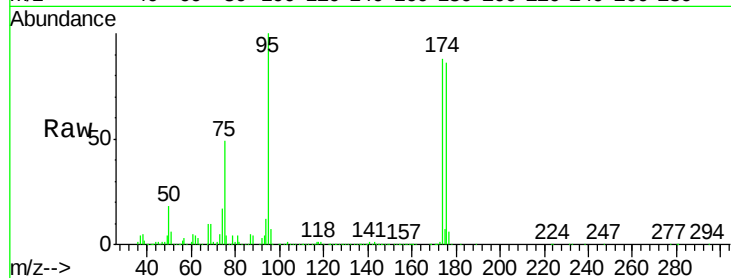
Tot Ion: 75 Resp: 179369

Ion Ratio Lower Upper

75 100

53 0.2 79.7 119.5#

89 0.0 38.0 57.0#



#88

1,4-Dichlorobenzene

Concen: 0.250 ug/l

RT: 12.03 min Scan# 1784

Delta R.T. -0.07 min

Lab File: VX007234.D

Acq: 25 Jan 2019 17:35

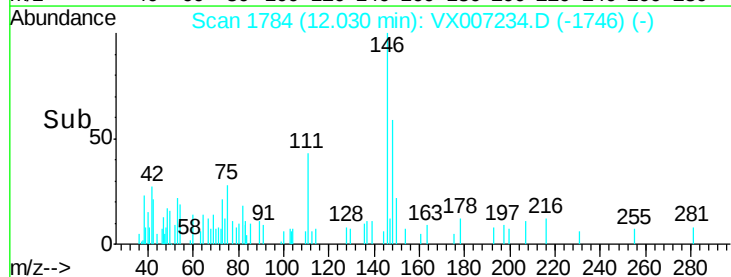
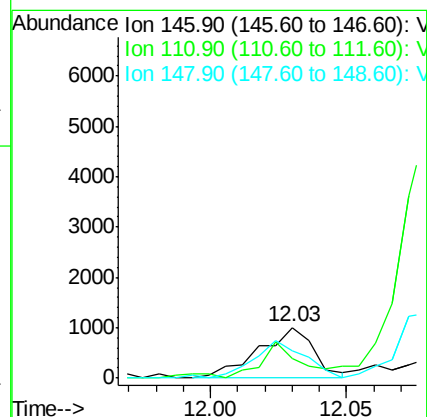
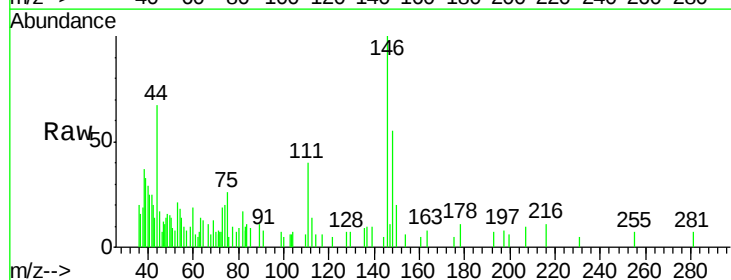
Tgt Ion: 146 Resp: 1424

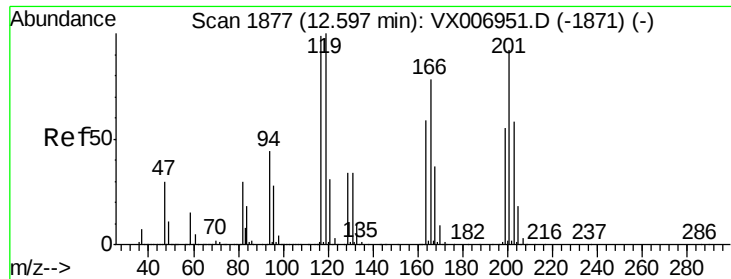
Ion Ratio Lower Upper

146 100

111 48.5 18.1 54.1

148 69.5 31.9 95.9





#90

Hexachloroethane

Concen: 2.925 ug/l

RT: 12.85 min Scan# 1919

Delta R.T. 0.26 min

Lab File: VX007234.D

Acq: 25 Jan 2019 17:35

Instrument :

MSVOA_X

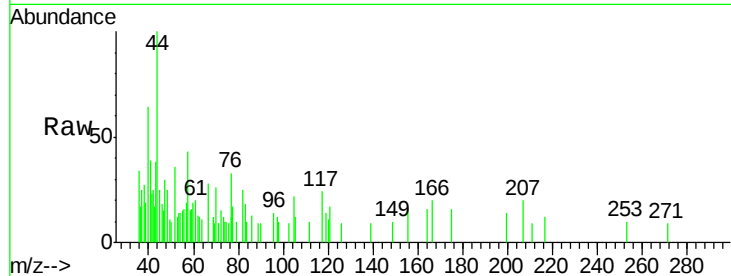
ClientSampleId :

Tot Ion:117 Resp: 72

Ion Ratio Lower Upper

117 100

201 65.3 42.9 128.7



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

