

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX010919\
 Data File : VX006978.D
 Acq On : 09 Jan 2019 21:00
 Operator : JC/MD
 Sample : K1008-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jan 10 01:00:05 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	609843	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	940882	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	886050	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	422033	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	328027	51.47	ug/l	0.00
Spiked Amount			Recovery	=	102.94%	
35) Dibromofluoromethane	5.51	113	290590	48.23	ug/l	0.00
Spiked Amount			Recovery	=	96.46%	
50) Toluene-d8	8.71	98	1137430	51.57	ug/l	0.00
Spiked Amount			Recovery	=	103.14%	
62) 4-Bromofluorobenzene	11.13	95	403112	52.43	ug/l	0.00
Spiked Amount			Recovery	=	104.86%	

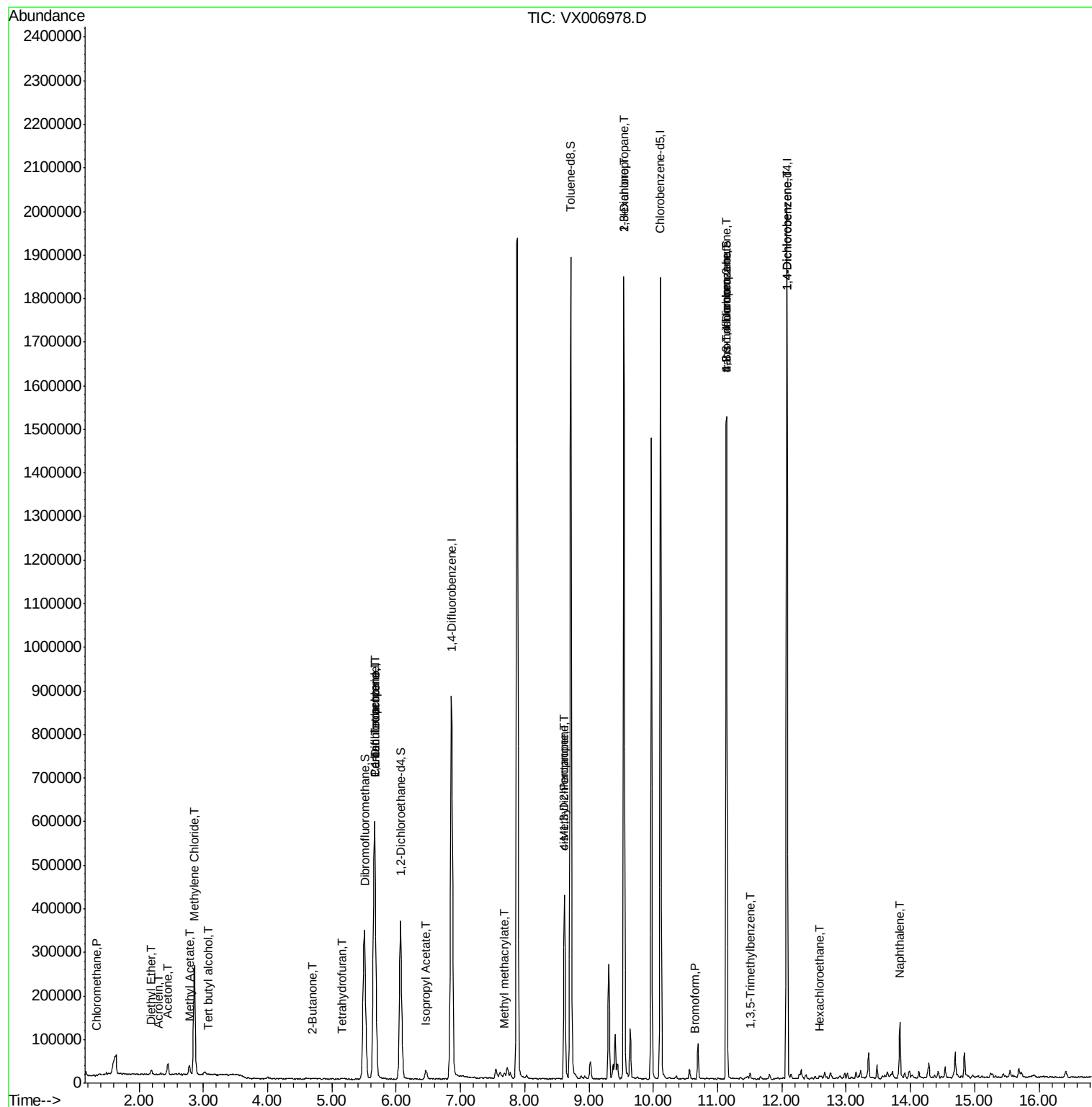
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	1173	0.201	ug/l	90
8) Diethyl Ether	2.19	74	3428	0.850	ug/l	68
11) Tert butyl alcohol	3.07	59	1052	0.700	ug/l #	69
13) Acrolein	2.31	56	121	3.268	ug/l #	1
16) Acetone	2.45	43	29980	9.515	ug/l	90
18) Methyl Acetate	2.78	43	29592	3.243	ug/l	99
20) Methylene Chloride	2.86	84	116946	19.165	ug/l	93
25) 2-Butanone	4.70	43	2331	0.517	ug/l #	70
29) Tetrahydrofuran	5.16	42	1470	0.502	ug/l #	77
36) 1,1-Dichloropropene	5.66	75	40153	4.909	ug/l #	48
38) Carbon Tetrachloride	5.67	117	55560	6.751	ug/l #	15
43) Isopropyl Acetate	6.46	43	26890	1.944	ug/l	97
48) Methyl methacrylate	7.68	41	13734	1.933	ug/l #	12
49) 1,4-Dioxane	7.74	88	114	Below Cal	#	1
51) 4-Methyl-2-Pentanone	8.62	43	141438	15.910	ug/l #	49
54) cis-1,3-Dichloropropene	8.62	75	70310	7.649	ug/l #	61
57) 1,3-Dichloropropane	9.54	76	16378	1.557	ug/l #	44
59) 2-Hexanone	9.54	43	200845	29.646	ug/l #	52
71) Bromoform	10.65	173	120	4.746	ug/l #	28
76) 1,2,3-Trichloropropane	11.13	75	191218	22.359	ug/l #	40
80) 1,3,5-Trimethylbenzene	11.51	105	5240	0.211	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.13	75	191218	66.153	ug/l #	10
88) 1,4-Dichlorobenzene	12.07	146	845	0.205	ug/l #	1
90) Hexachloroethane	12.59	117	614	3.045	ug/l #	6
95) Naphthalene	13.83	128	80956	2.662	ug/l	98

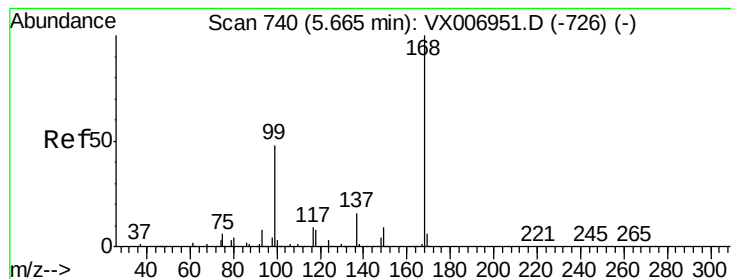
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX010919\
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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: VX006978.D

Acq: 09 Jan 2019 21:00

Instrument :

MSVOA_X

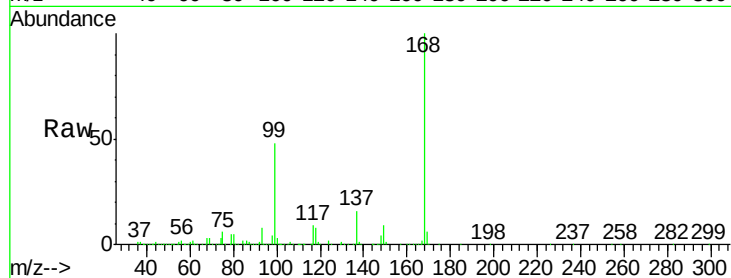
ClientSampleId :

Tot Ion:168 Resp: 609843

Ion Ratio Lower Upper

168 100

99 48.1 41.8 62.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

250000

200000

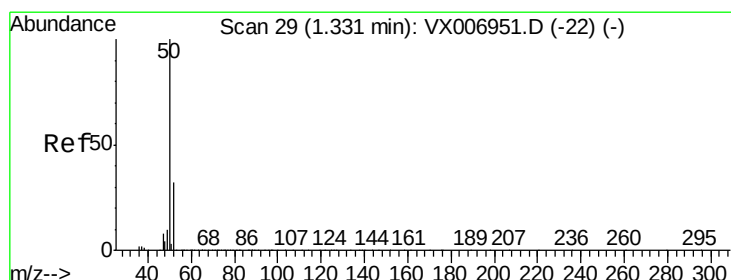
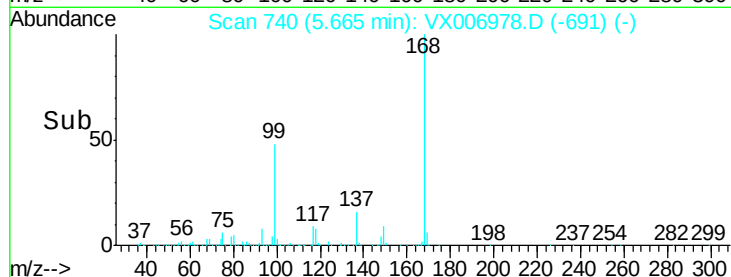
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.201 ug/l

RT: 1.33 min Scan# 29

Delta R.T. -0.00 min

Lab File: VX006978.D

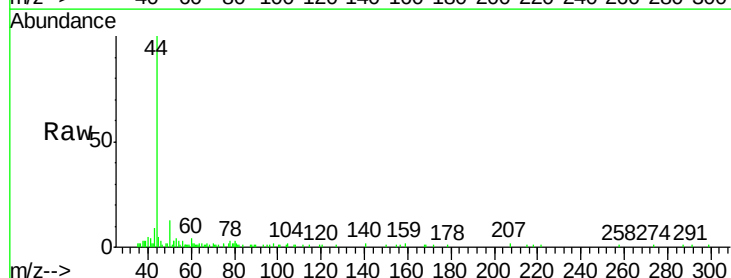
Acq: 09 Jan 2019 21:00

Tgt Ion: 50 Resp: 1173

Ion Ratio Lower Upper

50 100

52 26.3 25.4 38.2



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1000

800

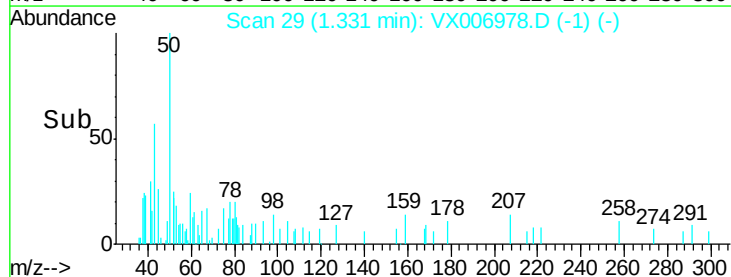
600

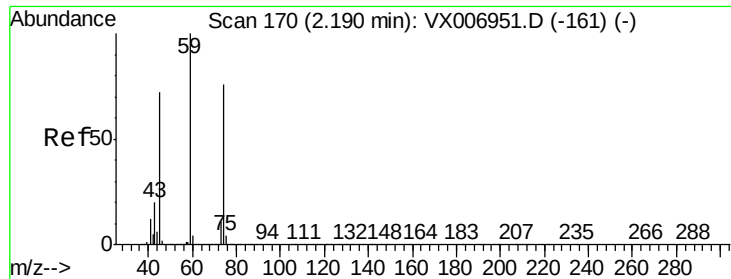
400

200

0

Time-->





#8

Diethyl Ether

Concen: 0.850 ug/l

RT: 2.19 min Scan# 170

Delta R.T. -0.00 min

Lab File: VX006978.D

Acq: 09 Jan 2019 21:00

Instrument :

MSVOA_X

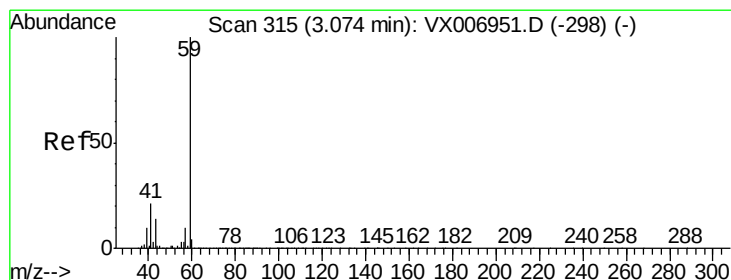
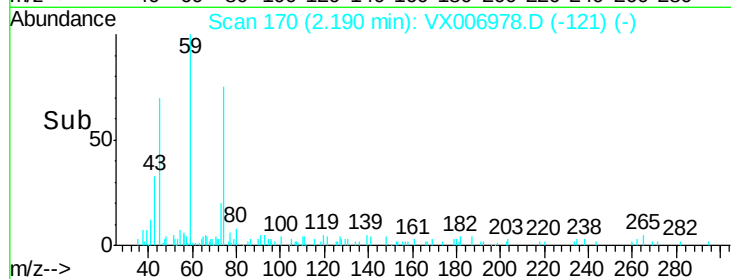
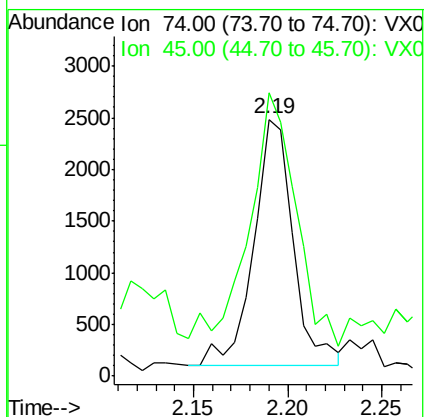
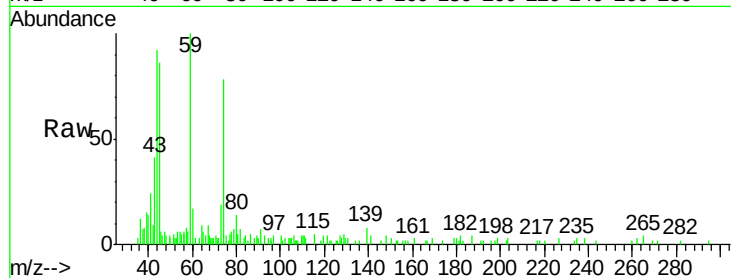
ClientSampleId :

Tot Ion: 74 Resp: 3428

Ion Ratio Lower Upper

74 100

45 122.8 46.3 138.9



#11

Tert butyl alcohol

Concen: 0.700 ug/l

RT: 3.07 min Scan# 314

Delta R.T. -0.01 min

Lab File: VX006978.D

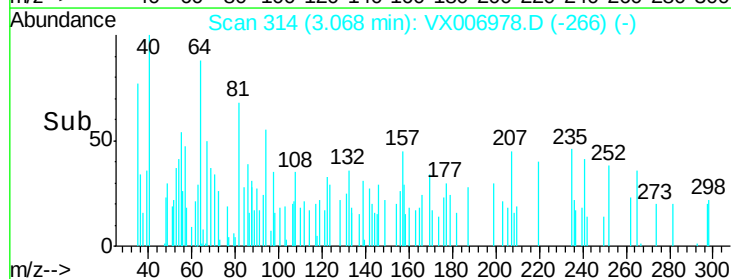
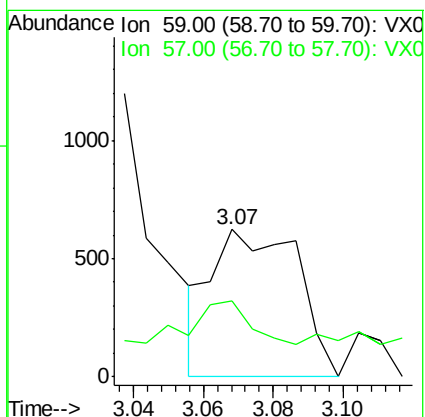
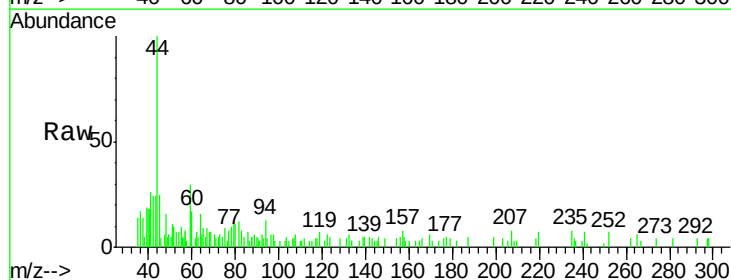
Acq: 09 Jan 2019 21:00

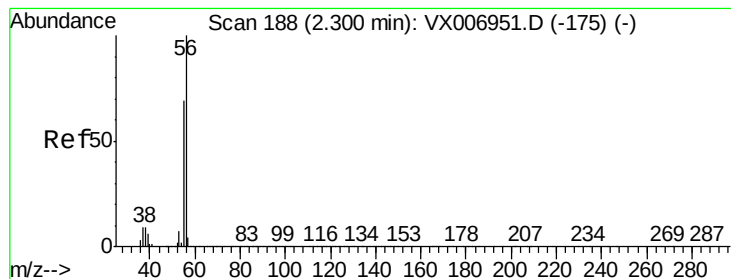
Tgt Ion: 59 Resp: 1052

Ion Ratio Lower Upper

59 100

57 22.3 8.5 12.7#





#13

Acrolein

Concen: 3.268 ug/l

RT: 2.31 min Scan# 189

Delta R.T. 0.01 min

Lab File: VX006978.D

Acq: 09 Jan 2019 21:00

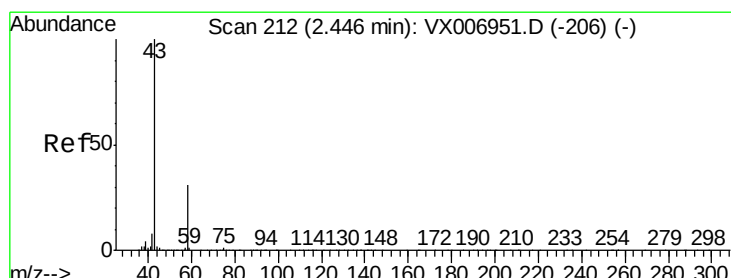
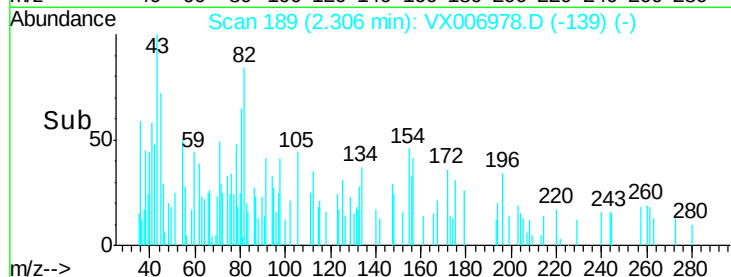
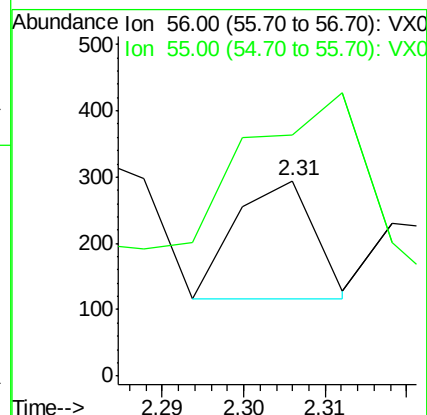
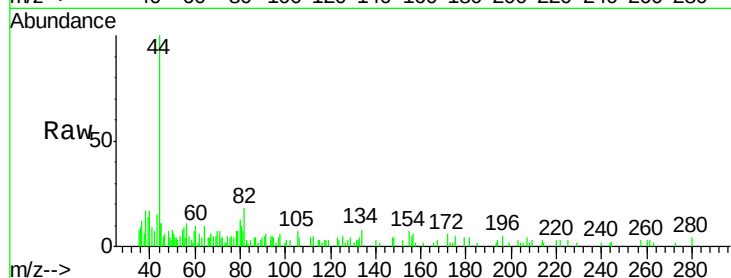
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 121

Ion Ratio Lower Upper

56 100

55 291.7 58.2 87.4#



#16

Acetone

Concen: 9.515 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX006978.D

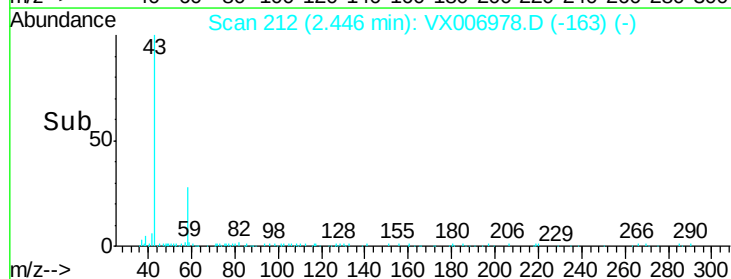
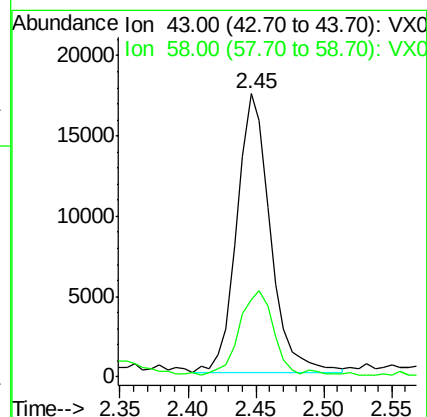
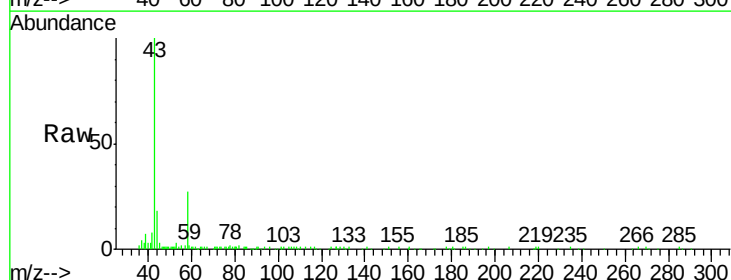
Acq: 09 Jan 2019 21:00

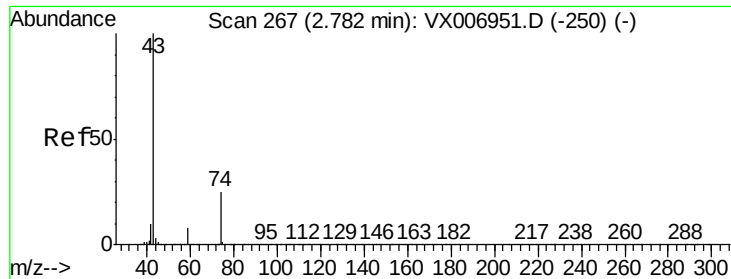
Tgt Ion: 43 Resp: 29980

Ion Ratio Lower Upper

43 100

58 26.0 25.0 37.6

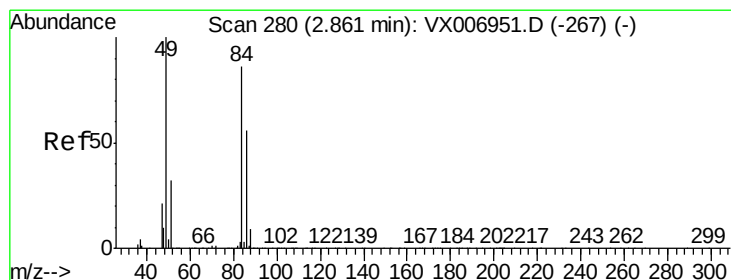
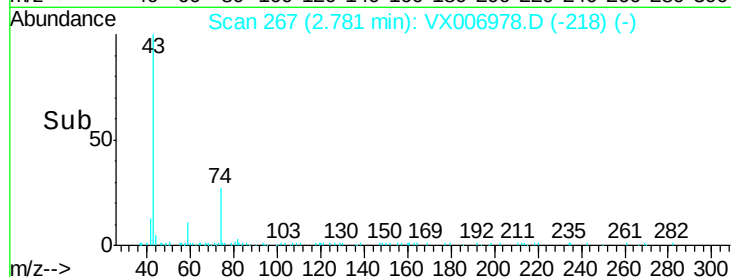
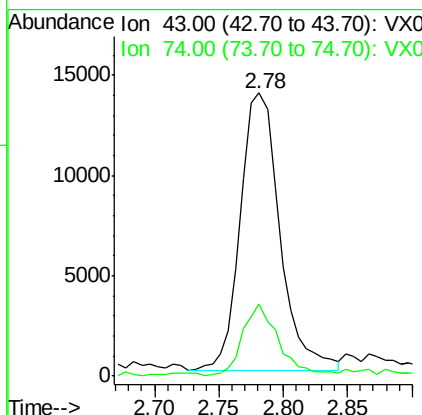
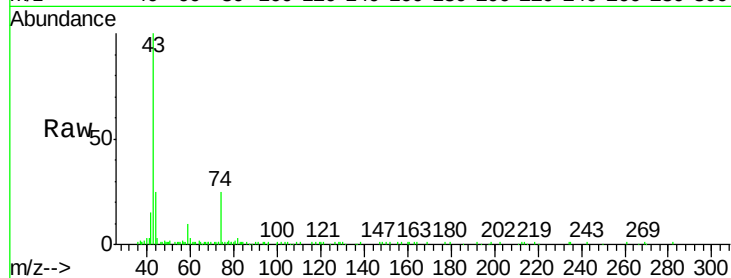




#18
Methyl Acetate
Concen: 3.243 ug/l
RT: 2.78 min Scan# 267
Delta R.T. -0.00 min
Lab File: VX006978.D
Acq: 09 Jan 2019 21:00

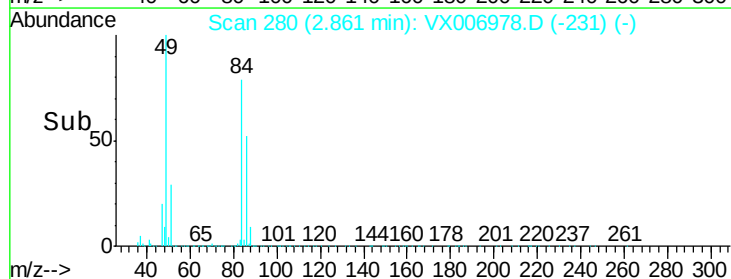
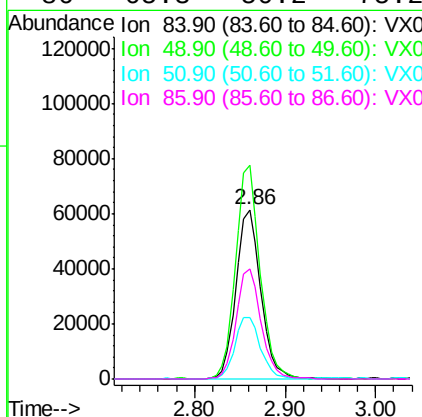
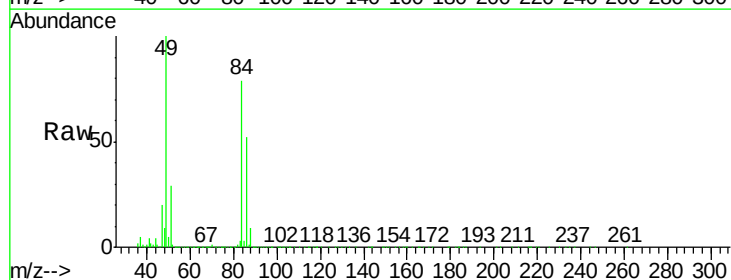
Instrument :
MSVOA_X
ClientSampleId :

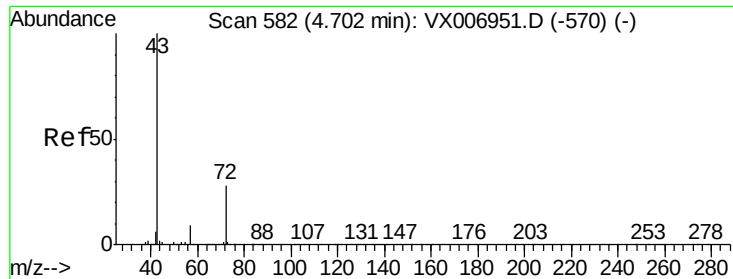
Tot Ion: 43 Resp: 29592
Ion Ratio Lower Upper
43 100
74 23.7 18.6 28.0



#20
Methylene Chloride
Concen: 19.165 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX006978.D
Acq: 09 Jan 2019 21:00

Tgt Ion: 84 Resp: 116946
Ion Ratio Lower Upper
84 100
49 126.0 91.8 137.6
51 36.0 28.5 42.7
86 65.3 50.2 75.2





#25

2-Butanone

Concen: 0.517 ug/l

RT: 4.70 min Scan# 581

Delta R.T. -0.01 min

Lab File: VX006978.D

Acq: 09 Jan 2019 21:00

Instrument :

MSVOA_X

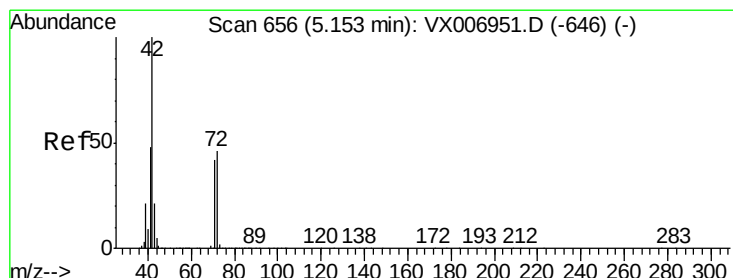
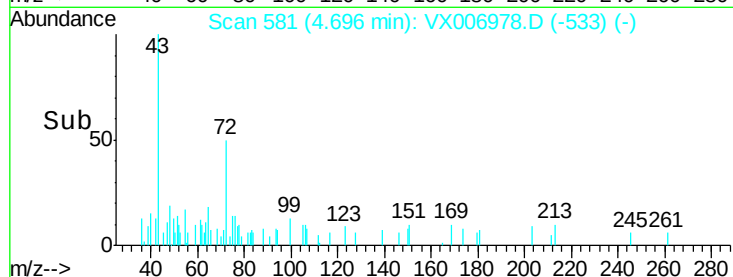
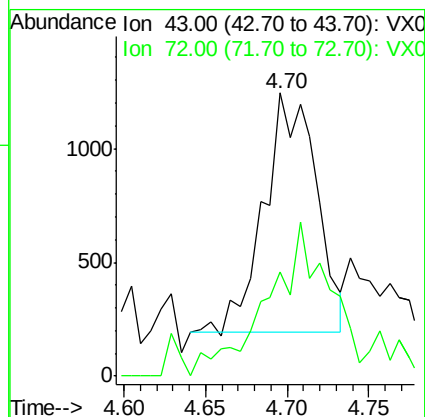
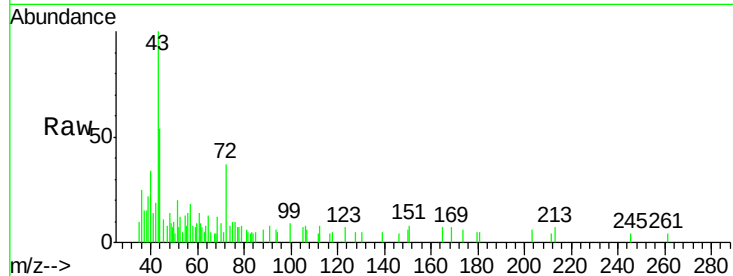
ClientSampled :

Tot Ion: 43 Resp: 2331

Ion Ratio Lower Upper

43 100

72 43.6 22.4 33.6#



#29

Tetrahydrofuran

Concen: 0.502 ug/l

RT: 5.16 min Scan# 657

Delta R.T. 0.01 min

Lab File: VX006978.D

Acq: 09 Jan 2019 21:00

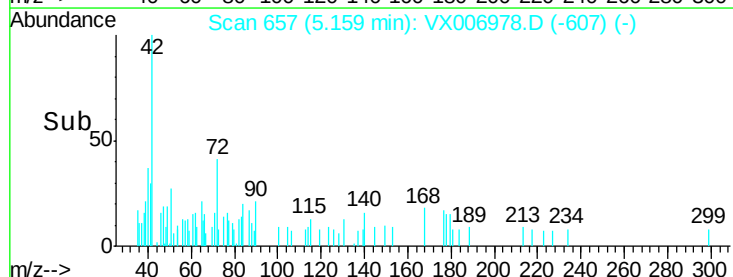
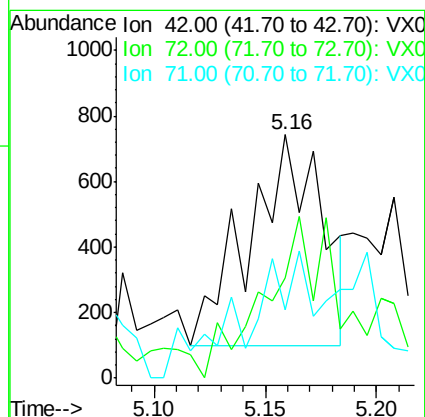
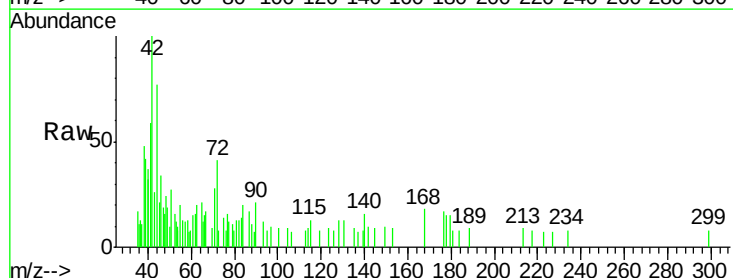
Tgt Ion: 42 Resp: 1470

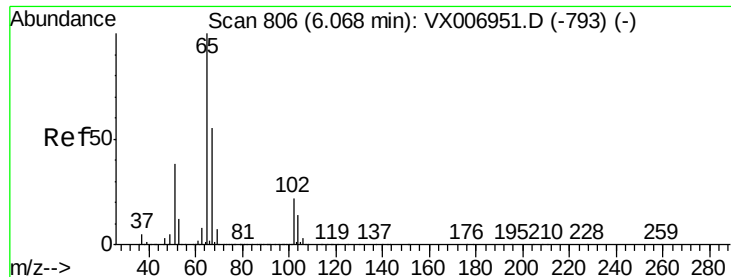
Ion Ratio Lower Upper

42 100

72 72.8 38.9 58.3#

71 38.9 36.2 54.4





#33

1,2-Dichloroethane-d4

Concen: 51.468 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX006978.D

Acq: 09 Jan 2019 21:00

Instrument :

MSVOA_X

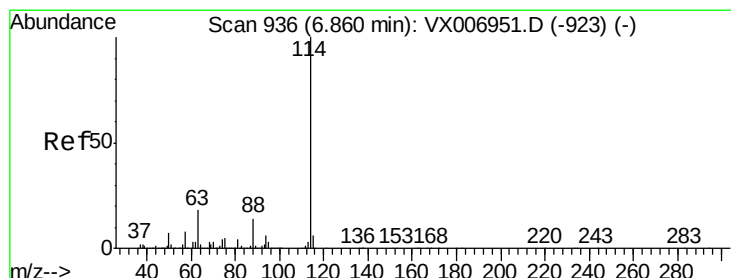
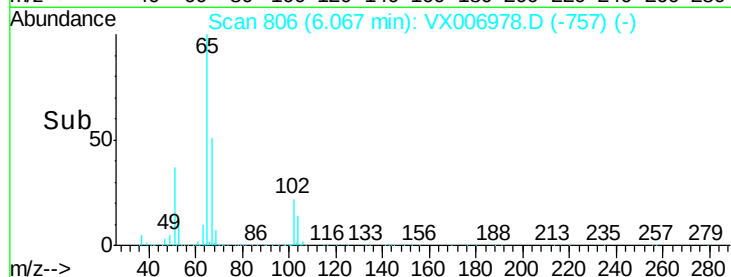
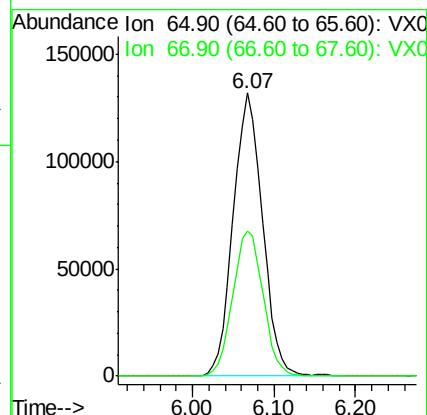
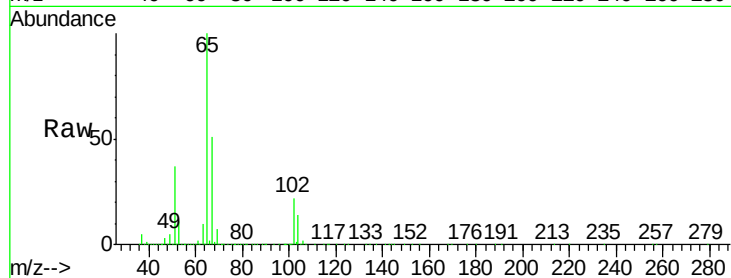
ClientSampleId :

Tot Ion: 65 Resp: 328027

Ion Ratio Lower Upper

65 100

67 53.0 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: VX006978.D

Acq: 09 Jan 2019 21:00

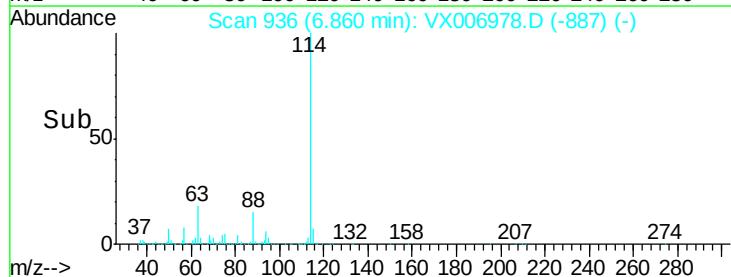
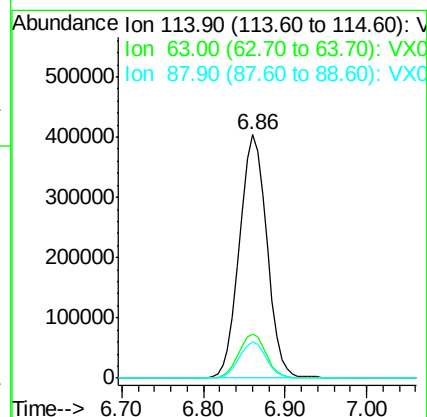
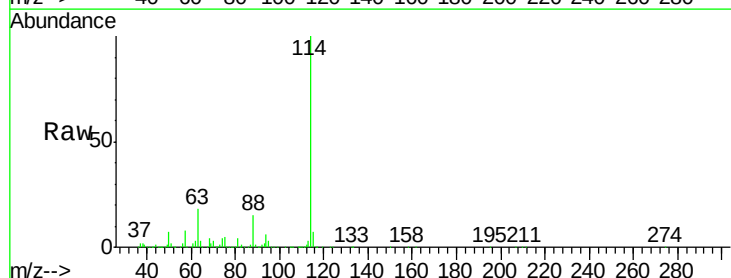
Tgt Ion: 114 Resp: 940882

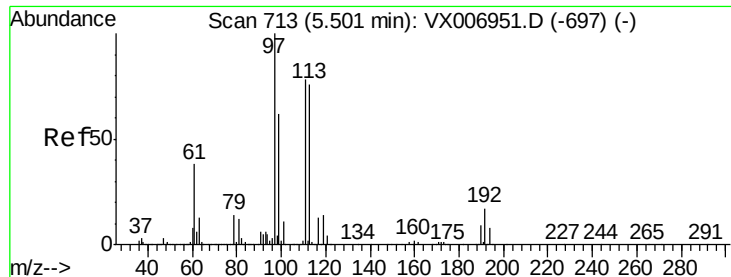
Ion Ratio Lower Upper

114 100

63 18.2 0.0 34.8

88 15.1 0.0 28.8





#35

Dibromofluoromethane

Concen: 48.228 ug/l

RT: 5.51 min Scan# 714

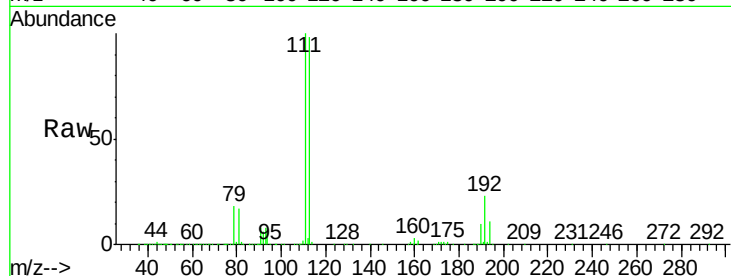
Delta R.T. 0.01 min

Lab File: VX006978.D

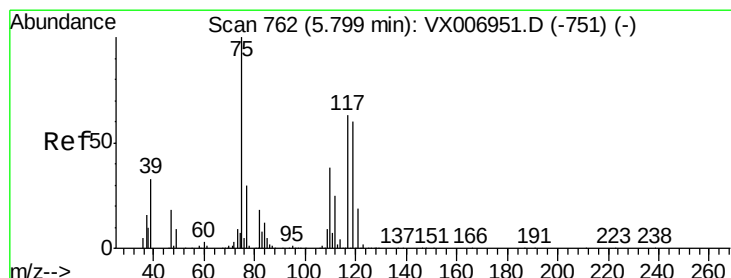
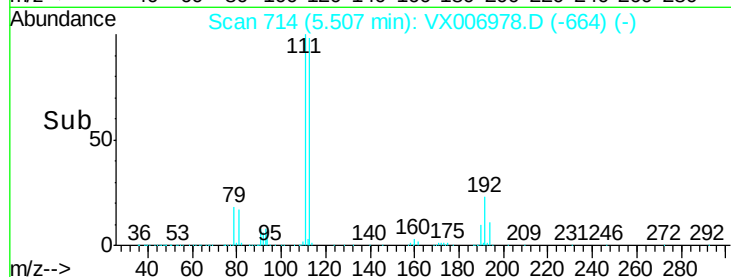
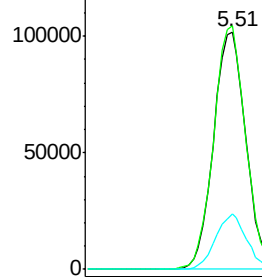
Acq: 09 Jan 2019 21:00

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:113	Resp:	290590
Ion Ratio	Lower	Upper
113	100	
111	101.4	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: 4.909 ug/l

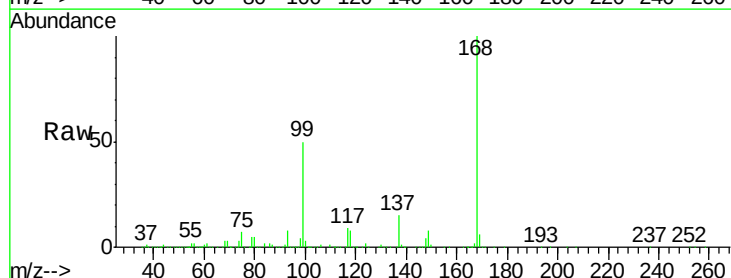
RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

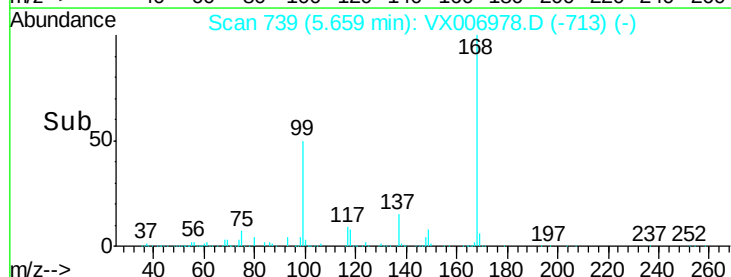
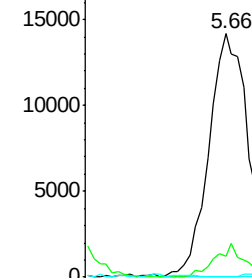
Lab File: VX006978.D

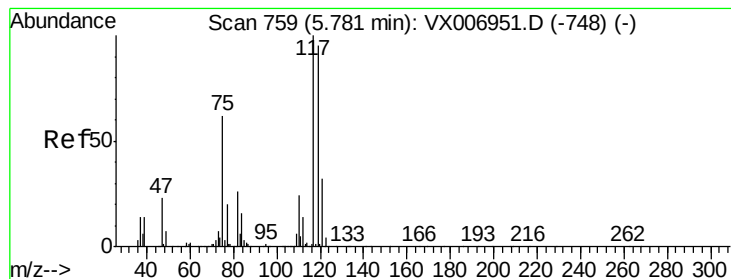
Acq: 09 Jan 2019 21:00

Tgt Ion: 75	Resp:	40153
Ion Ratio	Lower	Upper
75	100	
110	10.5	20.2 60.5#
77	0.0	24.8 37.2#



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: 6.751 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX006978.D

Acq: 09 Jan 2019 21:00

Instrument :

MSVOA_X

ClientSampled :

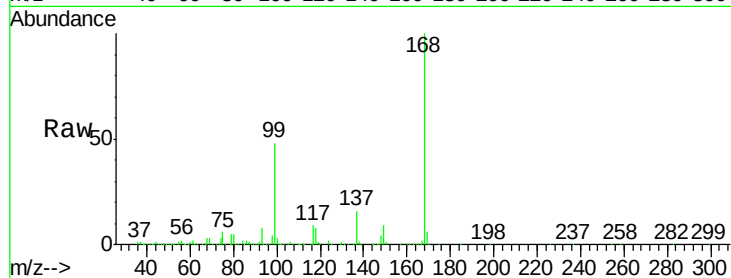
Tot Ion:117 Resp: 55560

Ion Ratio Lower Upper

117 100

119 5.7 79.4 119.2#

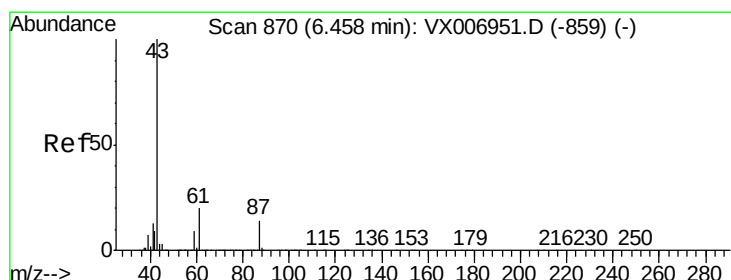
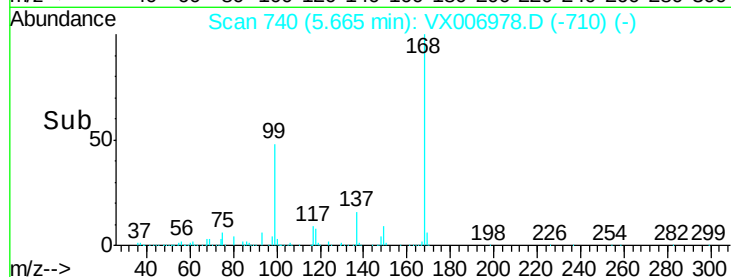
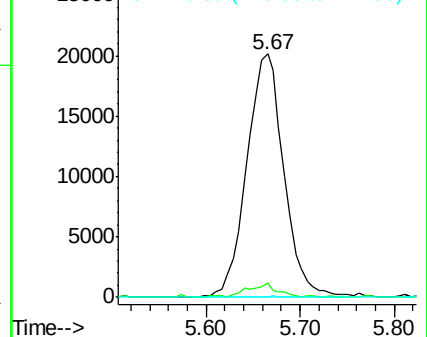
121 0.0 24.0 36.0#



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



#43

Isopropyl Acetate

Concen: 1.944 ug/l

RT: 6.46 min Scan# 870

Delta R.T. -0.00 min

Lab File: VX006978.D

Acq: 09 Jan 2019 21:00

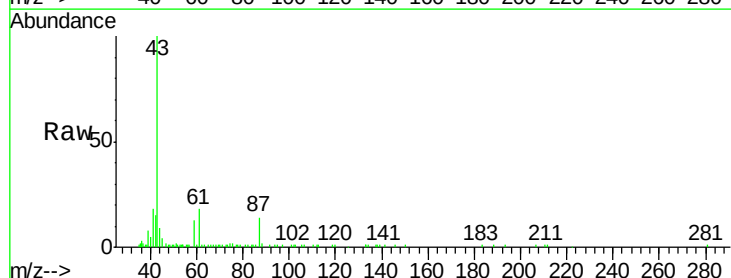
Tgt Ion: 43 Resp: 26890

Ion Ratio Lower Upper

43 100

61 21.5 16.8 25.2

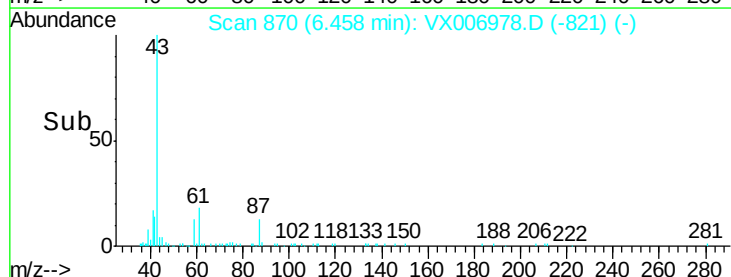
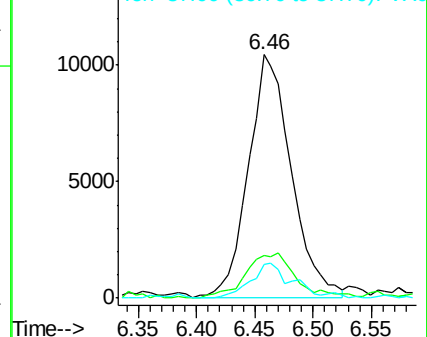
87 13.5 12.4 18.6

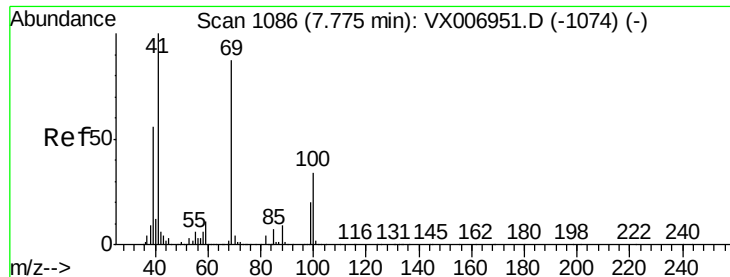


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

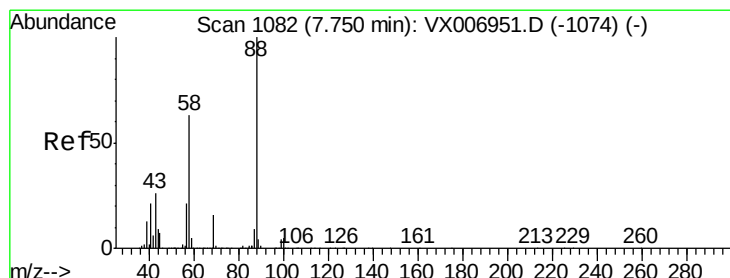
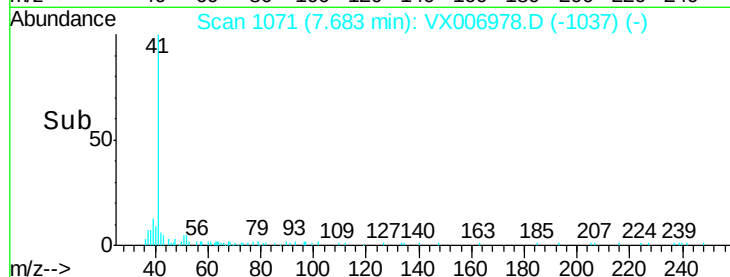
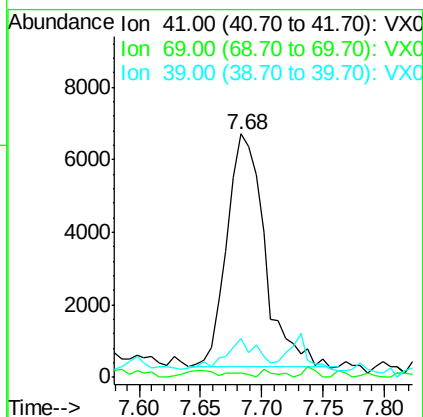
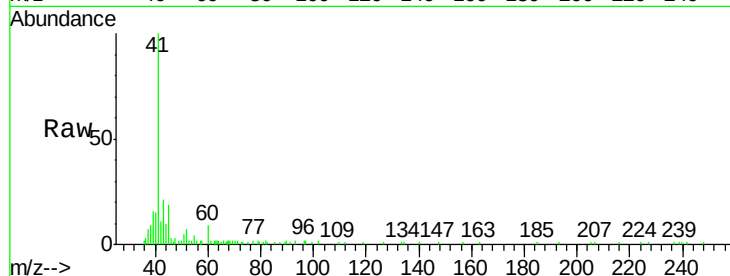




#48
Methvl methacrylate
Concen: 1.933 ug/l
RT: 7.68 min Scan# 1071
Delta R.T. -0.09 min
Lab File: VX006978.D
Acq: 09 Jan 2019 21:00

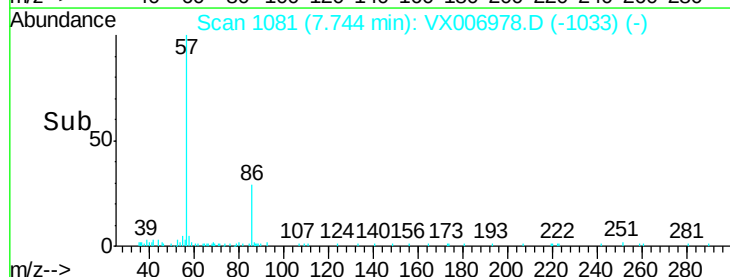
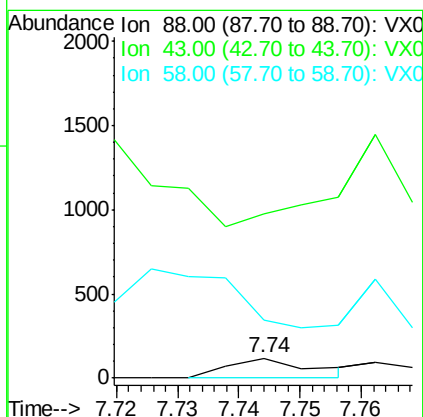
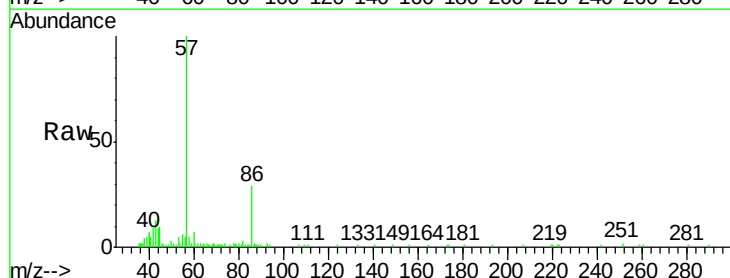
Instrument :
MSVOA_X
ClientSampled :

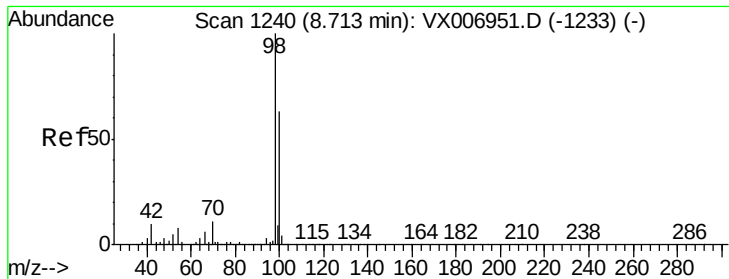
Tot Ion: 41 Resp: 13734
Ion Ratio Lower Upper
41 100
69 1.3 72.4 108.6#
39 0.0 45.8 68.8#



#49
1,4-Dioxane
Concen: Below Cal
RT: 7.74 min Scan# 1081
Delta R.T. -0.01 min
Lab File: VX006978.D
Acq: 09 Jan 2019 21:00

Tgt Ion: 88 Resp: 114
Ion Ratio Lower Upper
88 100
43 0.0 22.2 33.4#
58 1040.4 51.0 76.4#

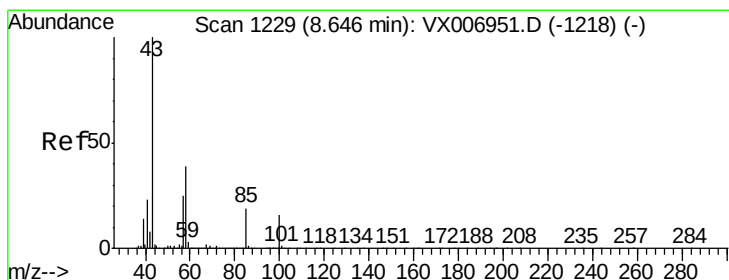
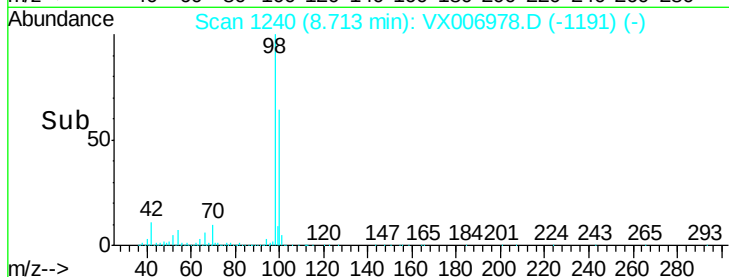
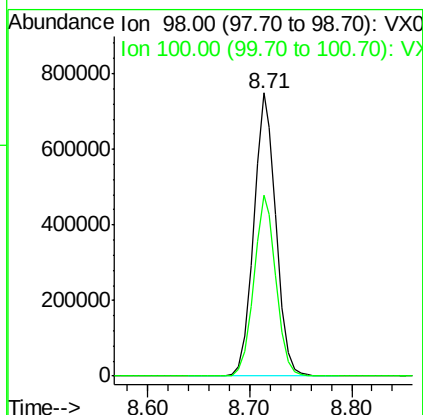
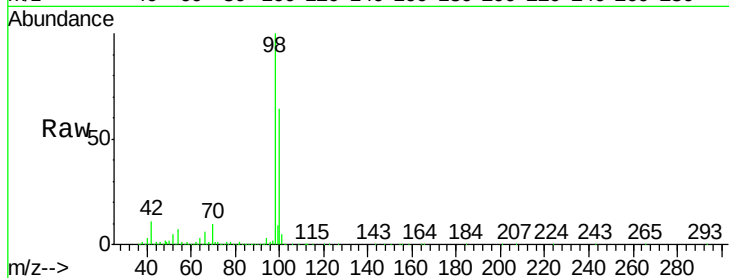




#50
Toluene-d8
Concen: 51.573 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX006978.D
Acq: 09 Jan 2019 21:00

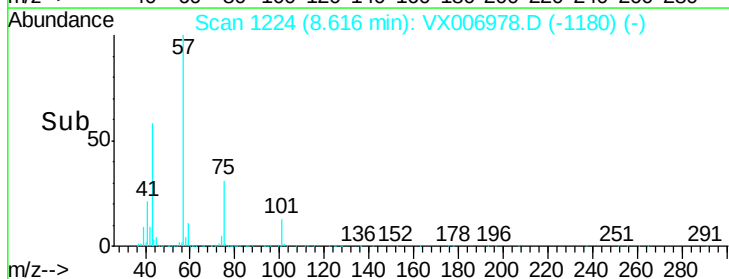
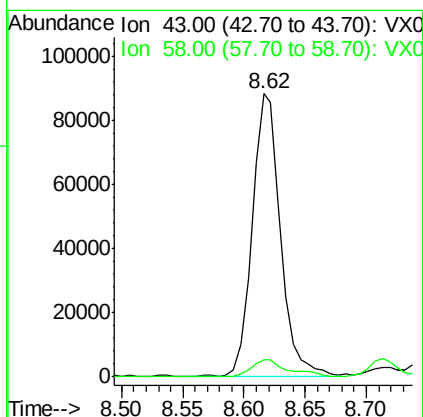
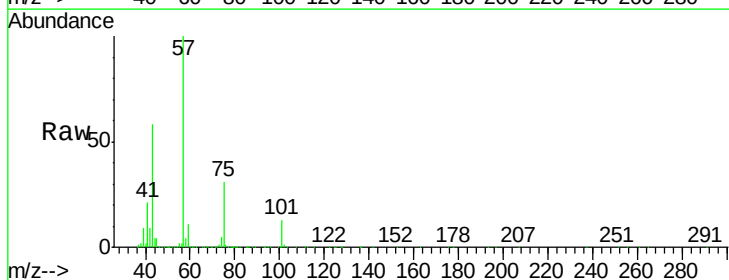
Instrument :
MSVOA_X
ClientSampleId :

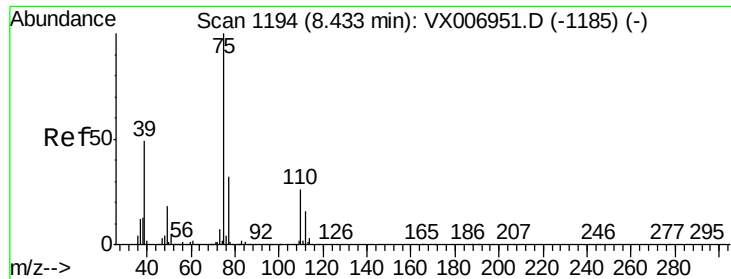
Tot Ion: 98 Resp: 1137430
Ion Ratio Lower Upper
98 100
100 63.7 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 15.910 ug/l
RT: 8.62 min Scan# 1224
Delta R.T. -0.03 min
Lab File: VX006978.D
Acq: 09 Jan 2019 21:00

Tgt Ion: 43 Resp: 141438
Ion Ratio Lower Upper
43 100
58 8.2 31.8 47.6#





#54

cis-1,3-Dichloropropene

Concen: 7.649 ug/l

RT: 8.62 min Scan# 1224

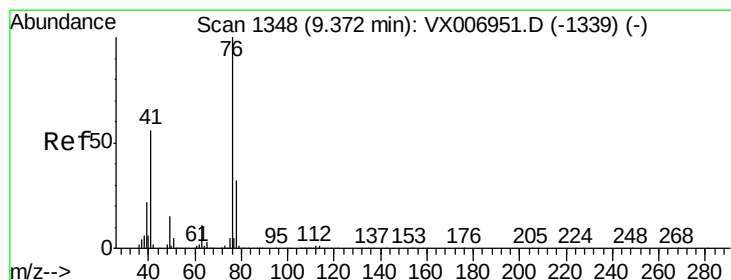
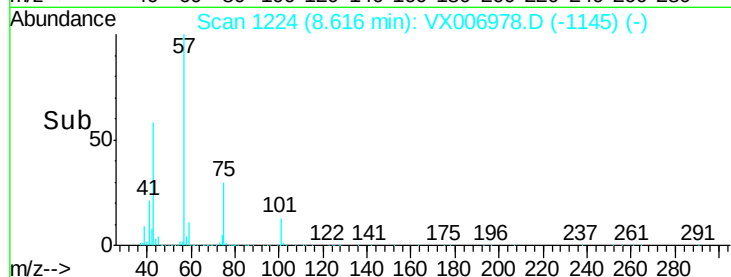
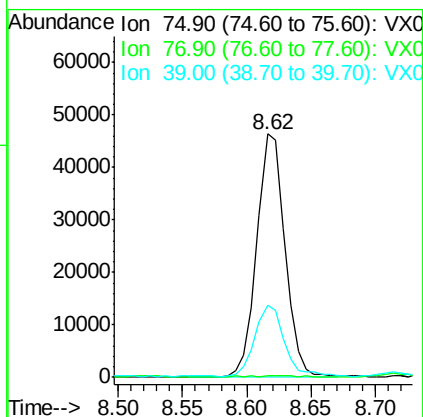
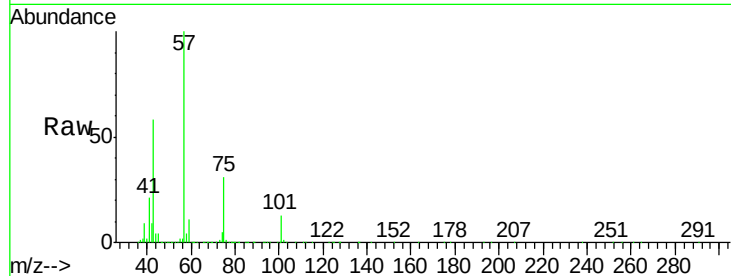
Delta R.T. 0.18 min

Lab File: VX006978.D

Acq: 09 Jan 2019 21:00

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:	75	Resp:	70310
Ion	Ratio	Lower	Upper
75	100		
77	0.4	26.2	39.2#
39	28.9	36.7	55.1#



#57

1,3-Dichloropropane

Concen: 1.557 ug/l

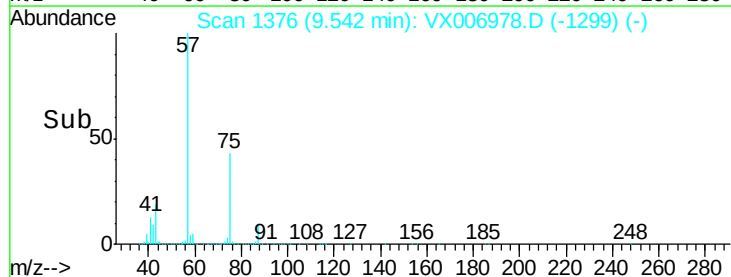
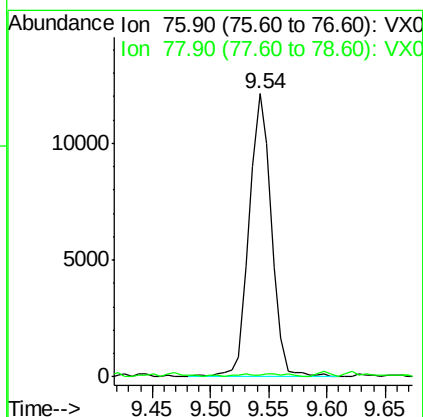
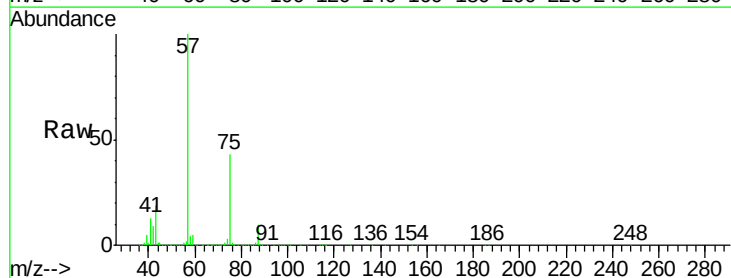
RT: 9.54 min Scan# 1376

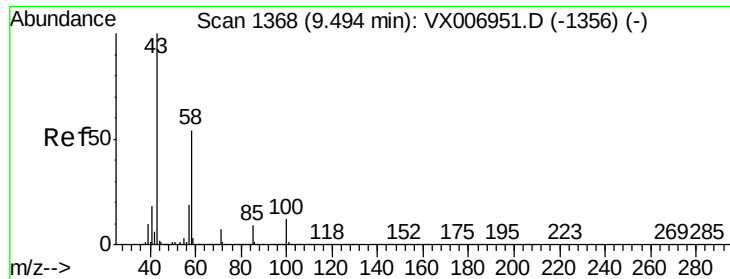
Delta R.T. 0.17 min

Lab File: VX006978.D

Acq: 09 Jan 2019 21:00

Tgt Ion:	76	Resp:	16378
Ion	Ratio	Lower	Upper
76	100		
78	0.8	26.0	39.0#





#59

2-Hexanone

Concen: 29.646 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.05 min

Lab File: VX006978.D

Acq: 09 Jan 2019 21:00

Instrument :

MSVOA_X

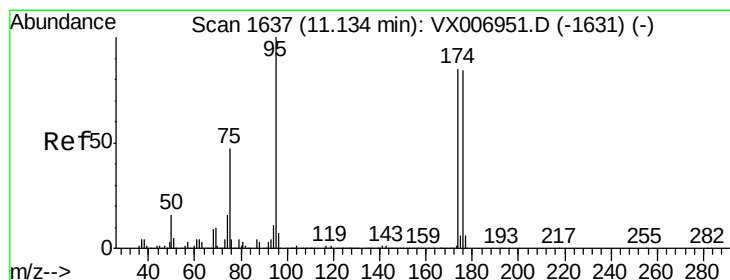
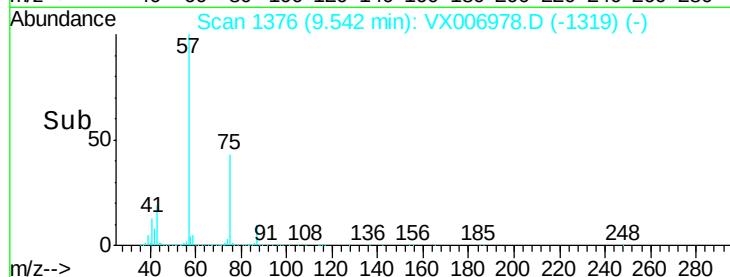
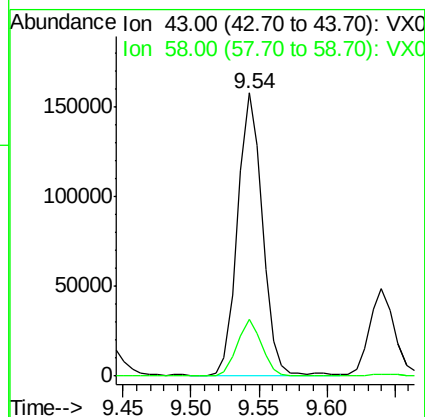
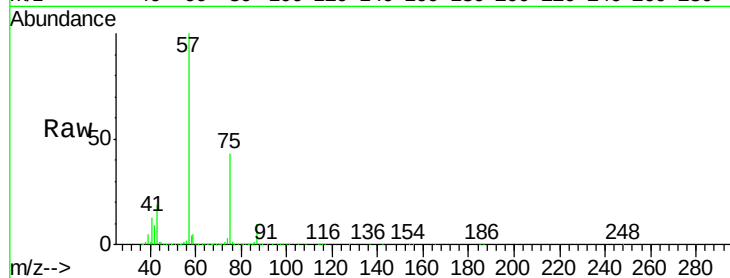
ClientSampleId :

Tot Ion: 43 Resp: 200845

Ion Ratio Lower Upper

43 100

58 20.4 27.7 83.1#



#62

4-Bromofluorobenzene

Concen: 52.429 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX006978.D

Acq: 09 Jan 2019 21:00

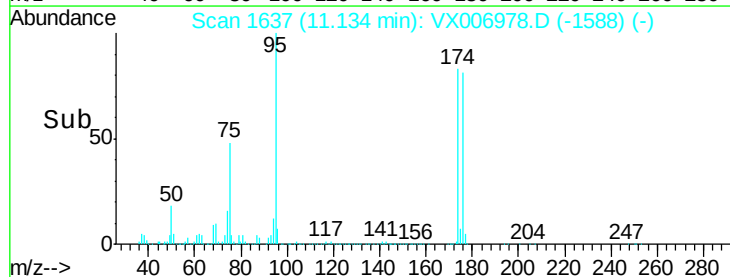
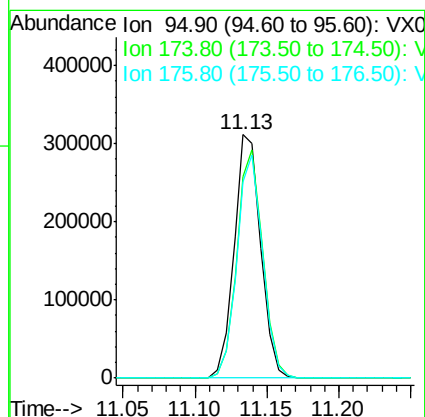
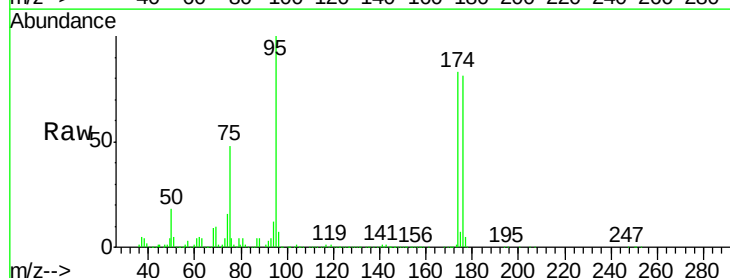
Tgt Ion: 95 Resp: 403112

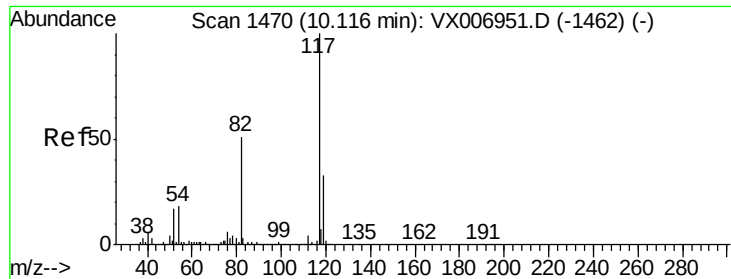
Ion Ratio Lower Upper

95 100

174 90.9 0.0 182.2

176 88.8 0.0 178.8

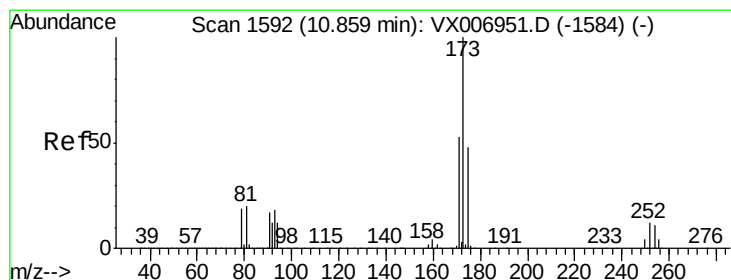
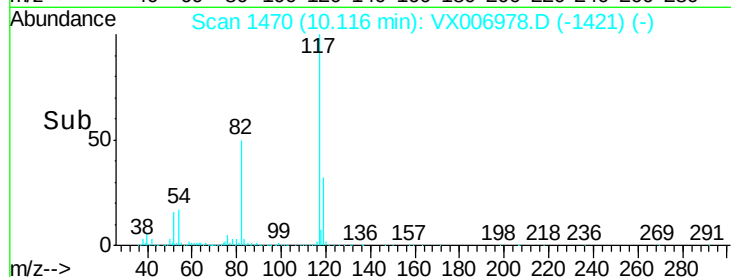
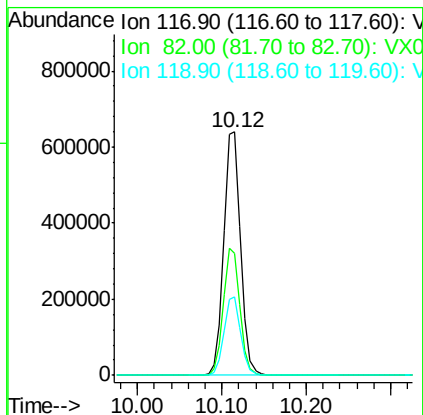
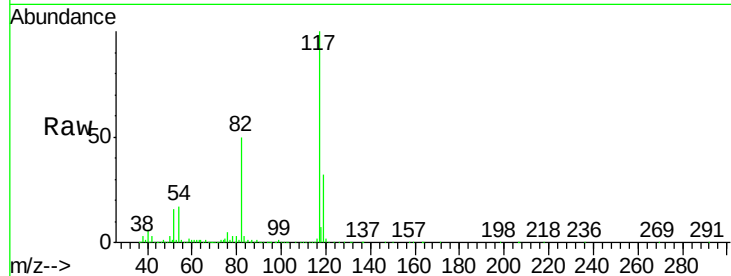




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX006978.D
Acq: 09 Jan 2019 21:00

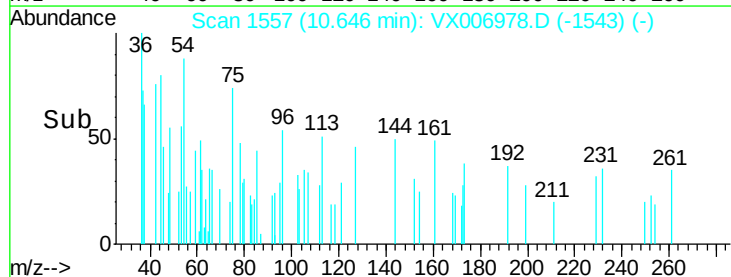
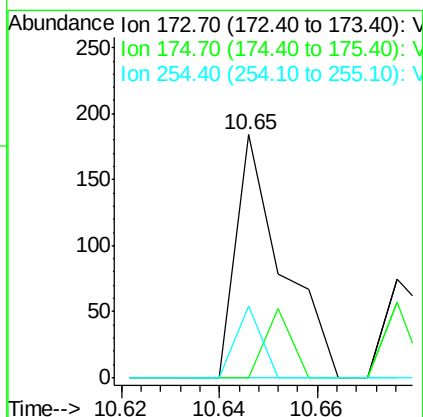
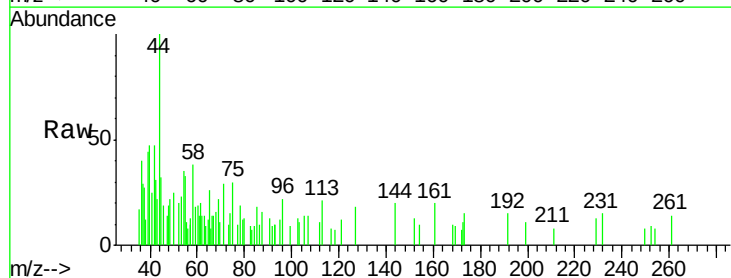
Instrument :
MSVOA_X
ClientSampled :

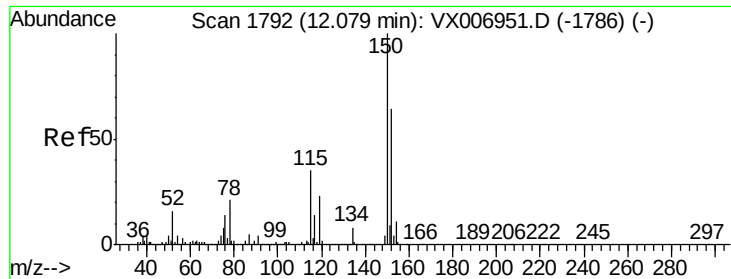
Tot Ion	Ratio	Lower	Upper
117	100		
82	50.2	41.0	61.6
119	32.2	25.4	38.0



#71
Bromoform
Concen: 4.746 ug/l
RT: 10.65 min Scan# 1557
Delta R.T. -0.21 min
Lab File: VX006978.D
Acq: 09 Jan 2019 21:00

Tgt Ion	Ratio	Lower	Upper
173	100		
175	0.0	24.7	74.1#
254	16.7	0.2	0.2#



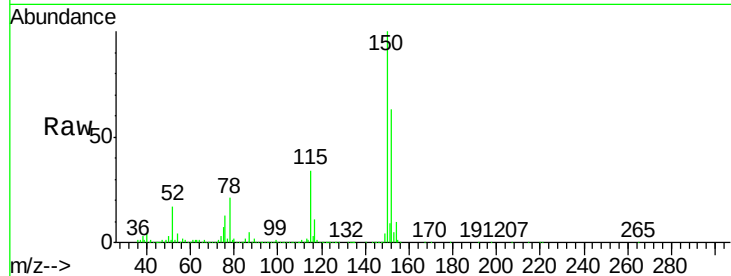


#72

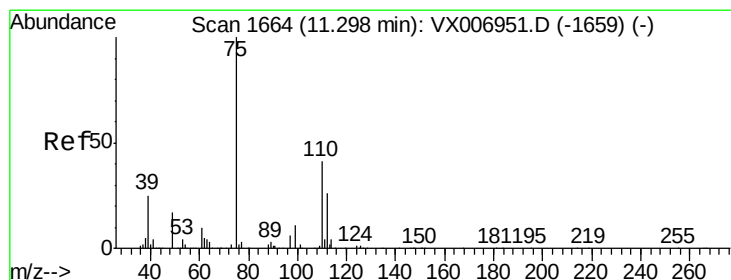
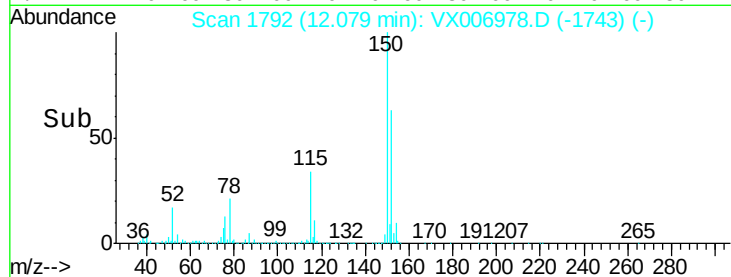
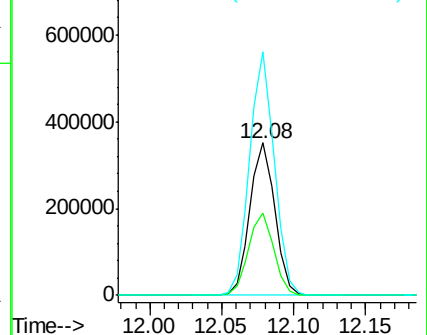
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX006978.D
Acq: 09 Jan 2019 21:00

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
115	54.7	39.1	117.2
150	157.5	0.0	344.8



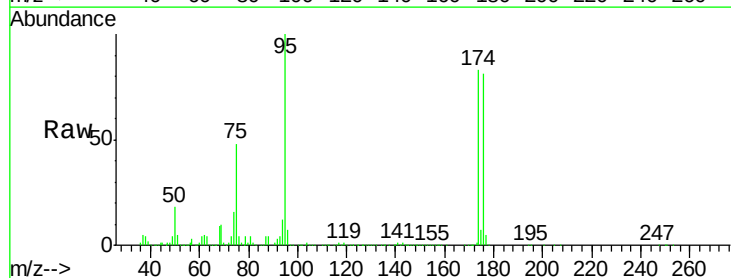
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



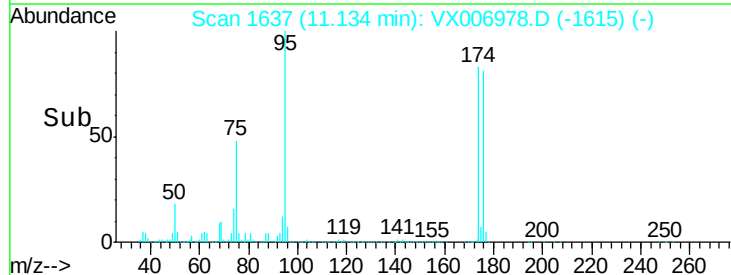
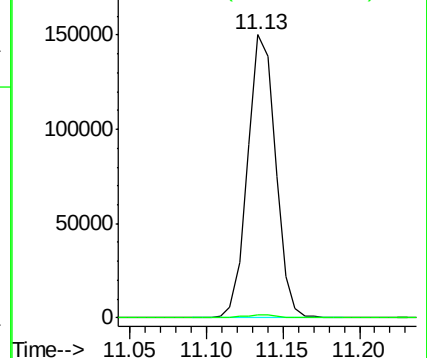
#76

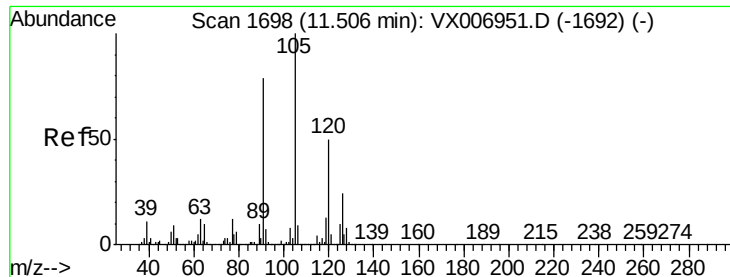
1,2,3-Trichloropropane
Concen: 22.359 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.16 min
Lab File: VX006978.D
Acq: 09 Jan 2019 21:00

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.4	18.5	55.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 77.00 (76.70 to 77.70): VX0

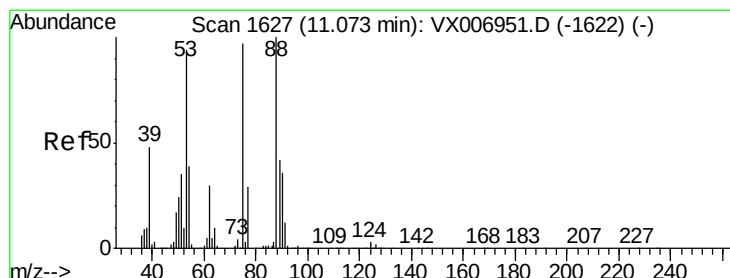
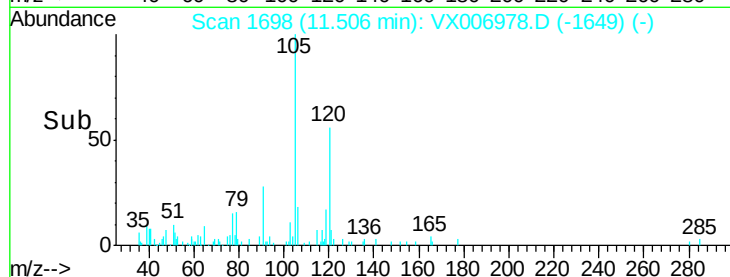
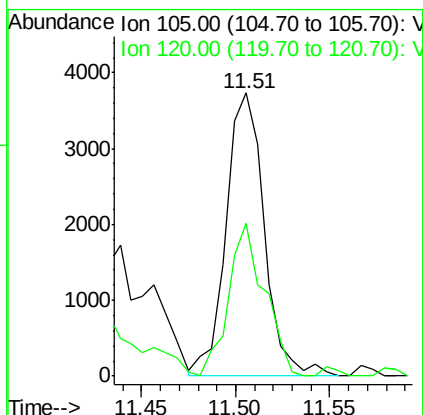
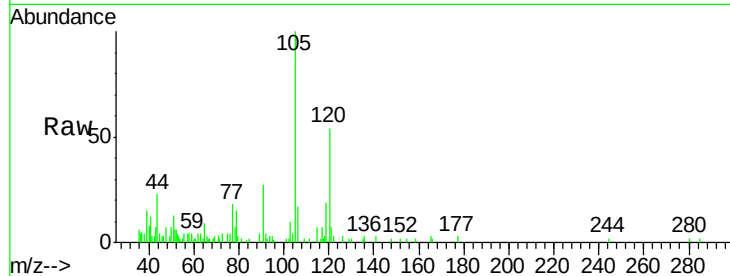




#80
 1,3,5-Trimethylbenzene
 Concen: 0.211 ug/l
 RT: 11.51 min Scan# 1698
 Delta R.T. -0.00 min
 Lab File: VX006978.D
 Acq: 09 Jan 2019 21:00

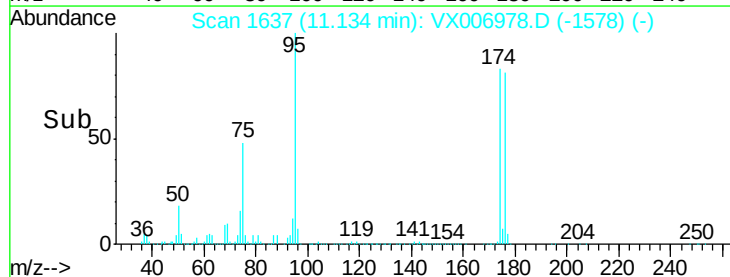
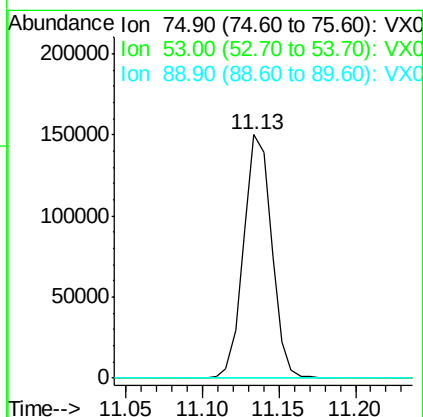
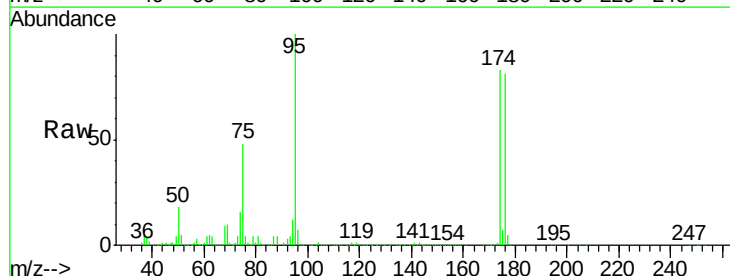
Instrument :
 MSVOA_X
 ClientSampled :

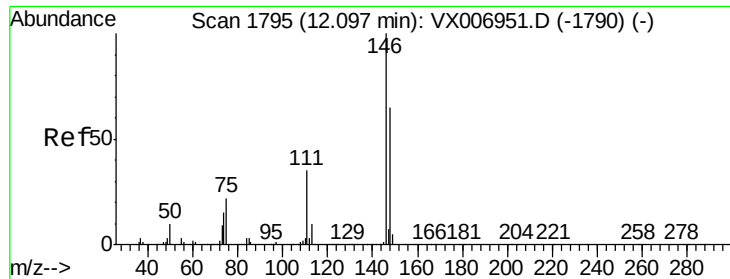
Tot Ion: 105 Resp: 5240
 Ion Ratio Lower Upper
 105 100
 120 50.8 25.1 75.3



#81
 trans-1,4-Dichloro-2-butene
 Concen: 66.153 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX006978.D
 Acq: 09 Jan 2019 21:00

Tgt Ion: 75 Resp: 191218
 Ion Ratio Lower Upper
 75 100
 53 0.1 79.7 119.5#
 89 0.0 38.0 57.0#

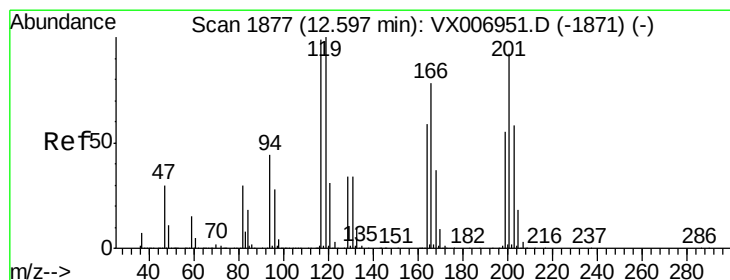
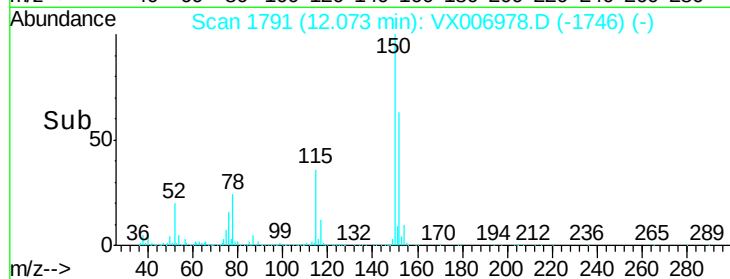
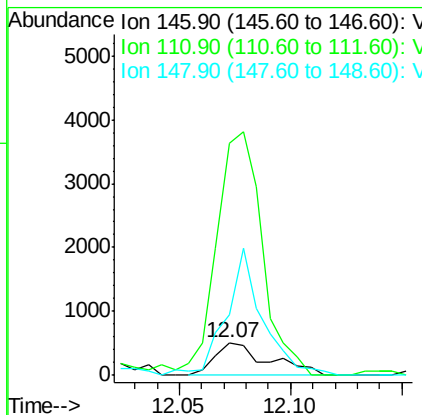
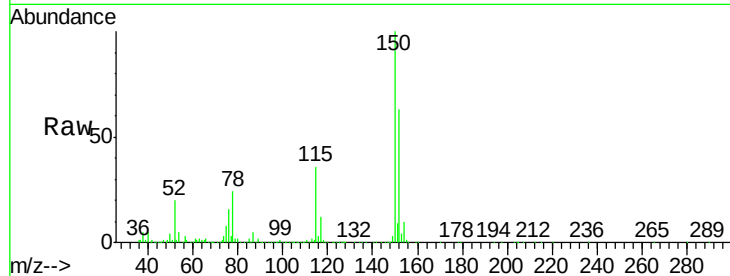




#88
 1,4-Dichlorobenzene
 Concen: 0.205 ug/l
 RT: 12.07 min Scan# 1791
 Delta R.T. -0.02 min
 Lab File: VX006978.D
 Acq: 09 Jan 2019 21:00

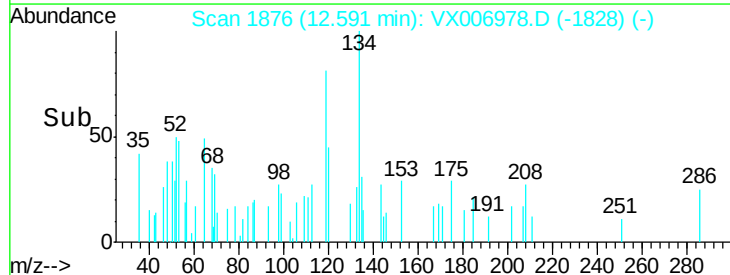
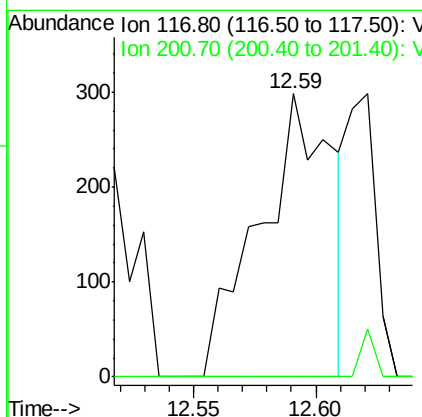
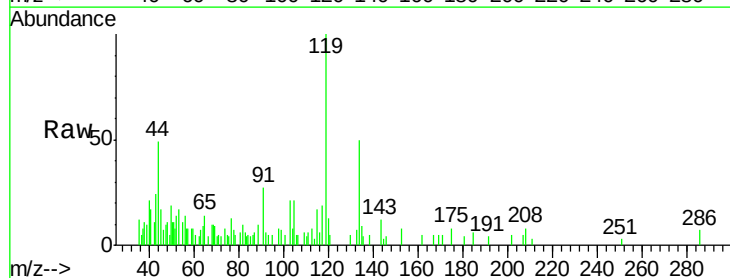
Instrument :
 MSVOA_X
 ClientSampleId :

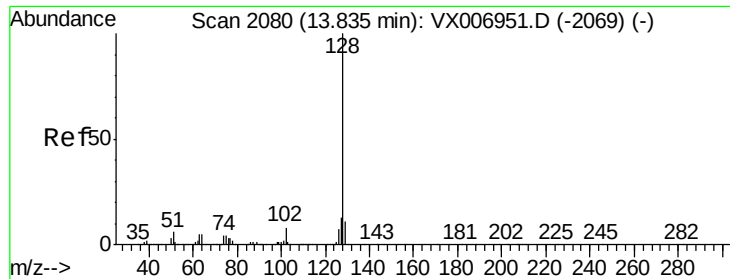
Tot Ion:146 Resp: 845
 Ion Ratio Lower Upper
 146 100
 111 649.6 18.1 54.1#
 148 269.2 31.9 95.9#



#90
 Hexachloroethane
 Concen: 3.045 ug/l
 RT: 12.59 min Scan# 1876
 Delta R.T. -0.01 min
 Lab File: VX006978.D
 Acq: 09 Jan 2019 21:00

Tgt Ion:117 Resp: 614
 Ion Ratio Lower Upper
 117 100
 201 0.0 42.9 128.7#

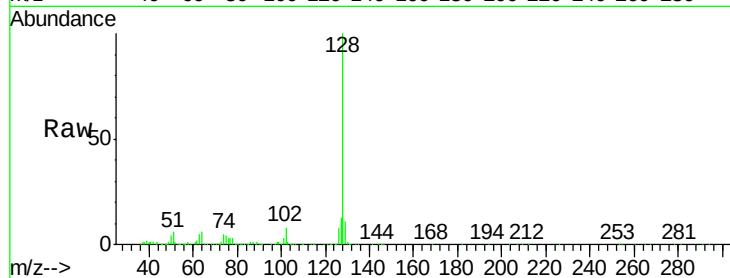




#95
Naphthalene
Concen: 2.662 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. -0.00 min
Lab File: VX006978.D
Acq: 09 Jan 2019 21:00

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.7	10.1	15.1
129	11.4	8.6	13.0



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

