

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX021619\
 Data File : VX007569.D
 Acq On : 15 Feb 2019 15:45
 Operator : JC/SP
 Sample : K1474-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

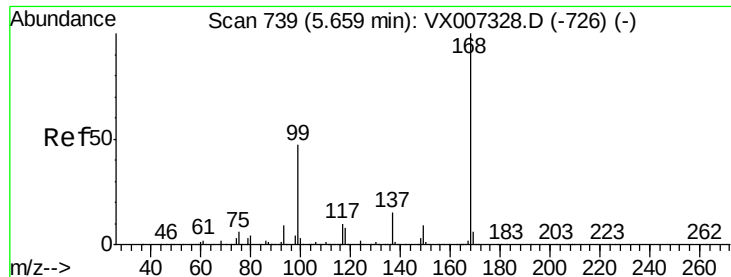
Quant Time: Feb 16 04:03:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X020119W.M
 Quant Title : SW846 8260
 QLast Update : Sat Feb 02 01:32:36 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	482644	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	772873	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	706163	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	337280	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	268401	52.39	ug/l	0.00
Spiked Amount			Recovery	=	104.78%	
35) Dibromofluoromethane	5.51	113	249825	49.68	ug/l	0.00
Spiked Amount			Recovery	=	99.36%	
50) Toluene-d8	8.71	98	903439	48.42	ug/l	0.00
Spiked Amount			Recovery	=	96.84%	
62) 4-Bromofluorobenzene	11.13	95	317377	46.59	ug/l	0.00
Spiked Amount			Recovery	=	93.18%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	416	0.247	ug/l #	61
3) Chloromethane	1.34	50	1606	0.295	ug/l #	70
5) Bromomethane	1.66	94	1120	Below Cal	#	77
10) Methyl Iodide	2.51	142	2684	0.368	ug/l #	86
11) Tert butyl alcohol	3.06	59	285278	269.084	ug/l	99
13) Acrolein	2.29	56	598	1.203	ug/l #	1
14) Allyl chloride	2.84	41	20132	2.681	ug/l #	24
15) Acrylonitrile	3.15	53	815	0.311	ug/l #	48
16) Acetone	2.45	43	11871	5.059	ug/l	94
17) Carbon Disulfide	2.57	76	3272	2.381	ug/l #	90
18) Methyl Acetate	2.78	43	1236	0.793	ug/l #	20
19) Methyl tert-butyl Ether	3.20	73	135499	9.076	ug/l	93
20) Methylene Chloride	2.85	84	1044	Below Cal	#	46
25) 2-Butanone	4.71	43	3503	1.049	ug/l #	79
29) Tetrahydrofuran	5.14	42	565	0.269	ug/l #	31
31) Cyclohexane	5.59	56	1808	0.254	ug/l #	80
36) 1,1-Dichloropropene	5.67	75	31466	4.538	ug/l #	49
38) Carbon Tetrachloride	5.67	117	44495	6.614	ug/l #	16
39) Methylcyclohexane	7.45	83	4301	0.513	ug/l #	1
43) Isopropyl Acetate	6.35	43	72438	6.695	ug/l #	60
49) 1,4-Dioxane	7.76	88	113	7.791	ug/l #	17
76) 1,2,3-Trichloropropane	11.13	75	152524	23.249	ug/l #	32
81) trans-1,4-Dichloro-2-buten	11.13	75	152524	70.011	ug/l #	9
86) p-Isopropyltoluene	12.23	119	14165	0.698	ug/l	94
95) Naphthalene	13.83	128	5172	0.227	ug/l #	76

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX007569.D

Acq: 15 Feb 2019 15:45

Instrument :

MSVOA_W

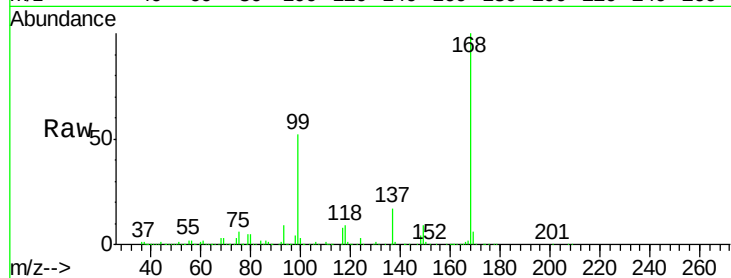
ClientSampleId :

Tot Ion:168 Resp: 482644

Ion Ratio Lower Upper

168 100

99 52.3 37.9 56.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

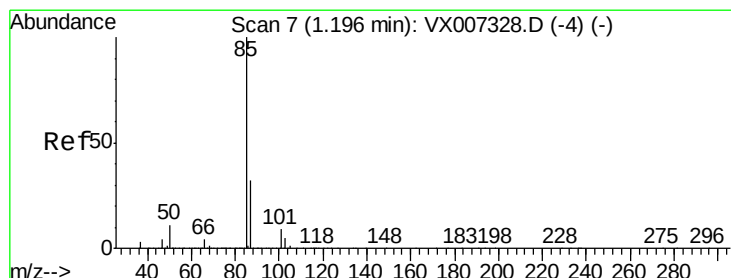
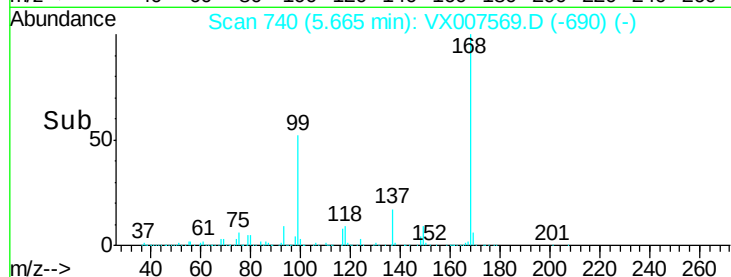
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.247 ug/l

RT: 1.20 min Scan# 8

Delta R.T. 0.01 min

Lab File: VX007569.D

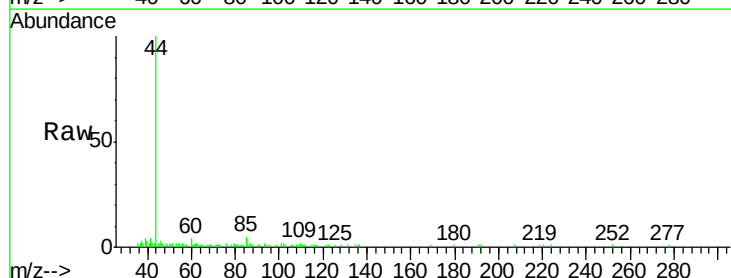
Acq: 15 Feb 2019 15:45

Tgt Ion: 85 Resp: 416

Ion Ratio Lower Upper

85 100

87 10.1 15.8 47.4#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

400

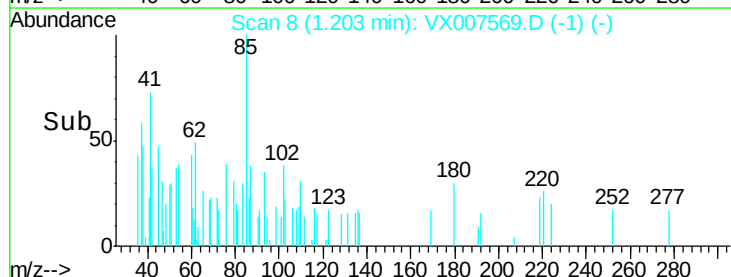
300

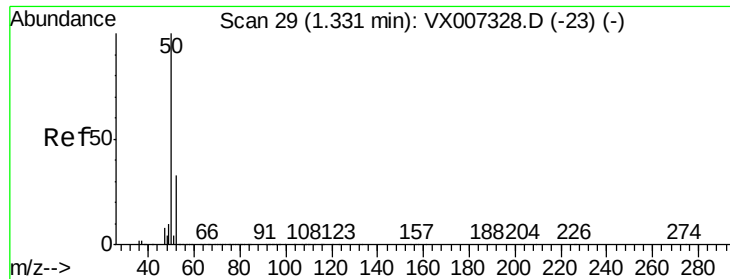
200

100

0

Time-->





#3

Chloromethane

Concen: 0.295 ug/l

RT: 1.34 min Scan# 30

Delta R.T. 0.01 min

Lab File: VX007569.D

Acq: 15 Feb 2019 15:45

Instrument :

MSVOA_W

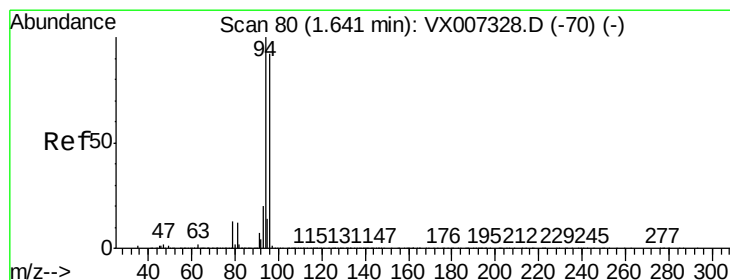
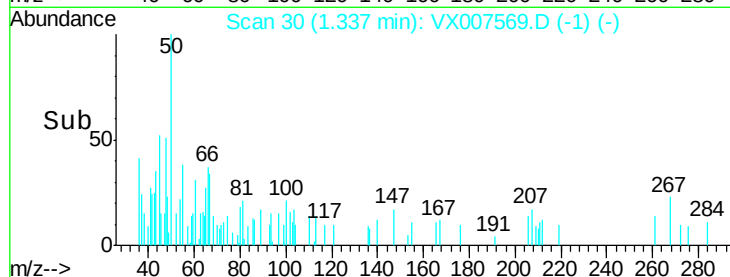
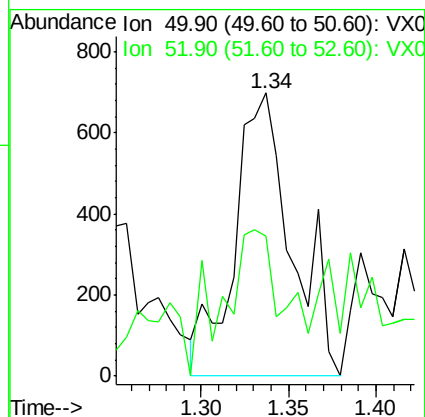
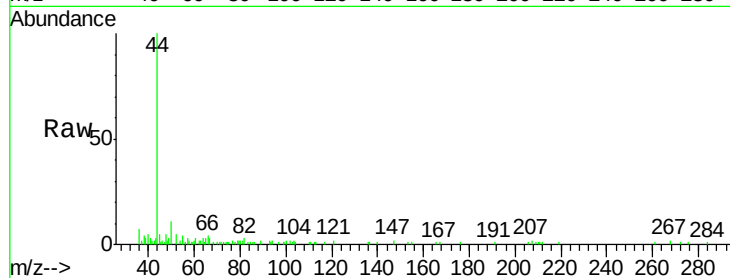
ClientSampled :

Tot Ion: 50 Resp: 1606

Ion Ratio Lower Upper

50 100

52 49.4 26.1 39.1#



#5

Bromomethane

Concen: Below Cal

RT: 1.66 min Scan# 83

Delta R.T. 0.02 min

Lab File: VX007569.D

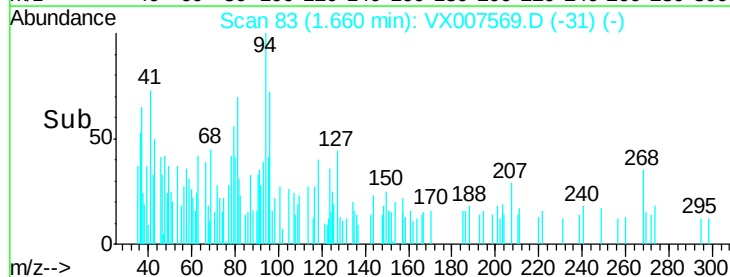
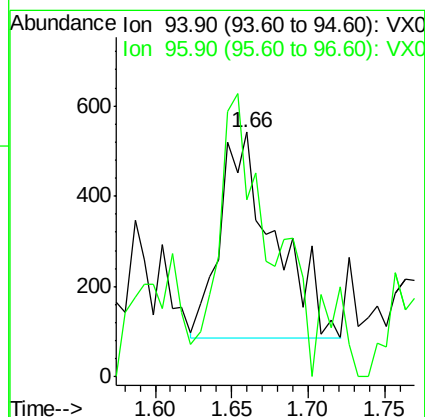
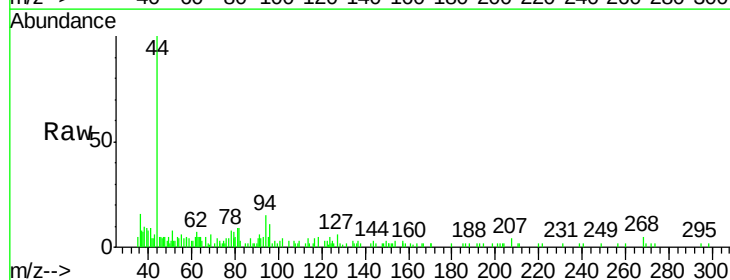
Acq: 15 Feb 2019 15:45

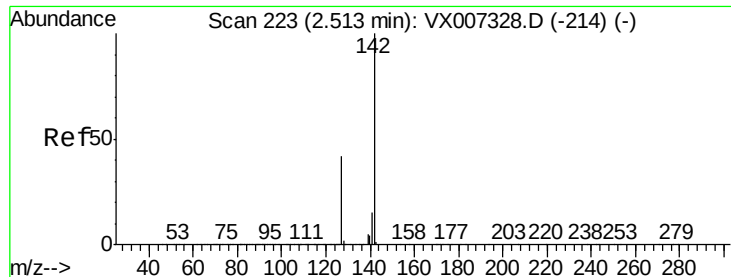
Tgt Ion: 94 Resp: 1120

Ion Ratio Lower Upper

94 100

96 70.5 73.9 110.9#

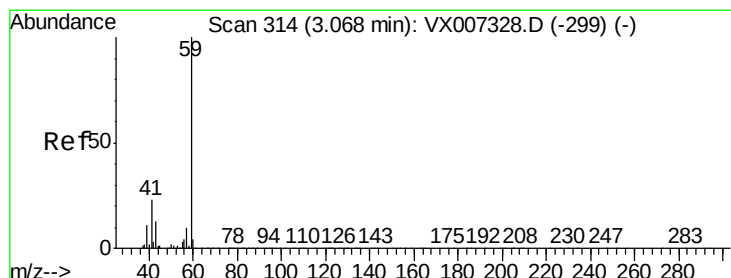
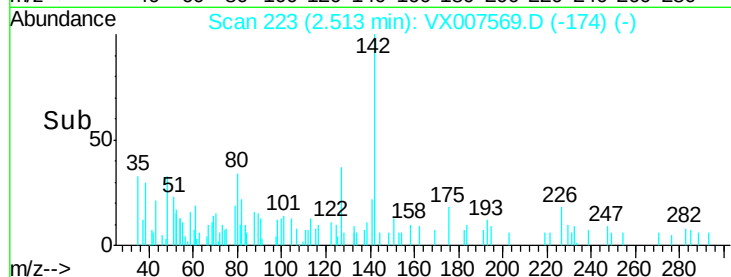
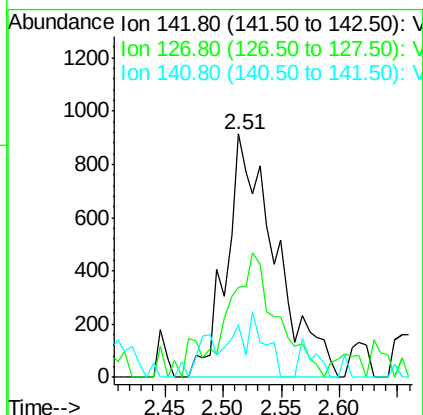
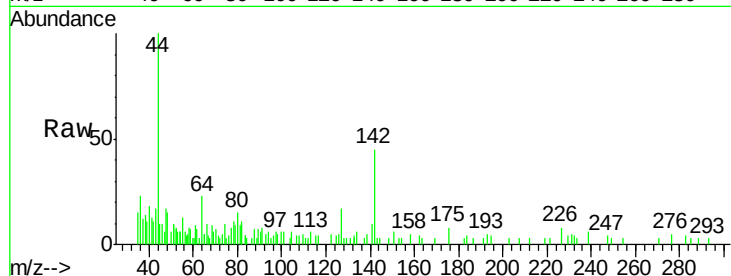




#10
Methyl Iodide
Concen: 0.368 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.00 min
Lab File: VX007569.D
Acq: 15 Feb 2019 15:45

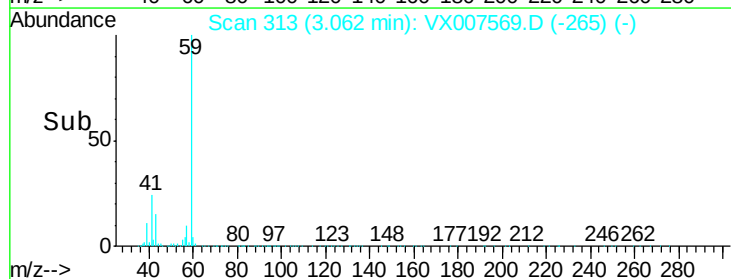
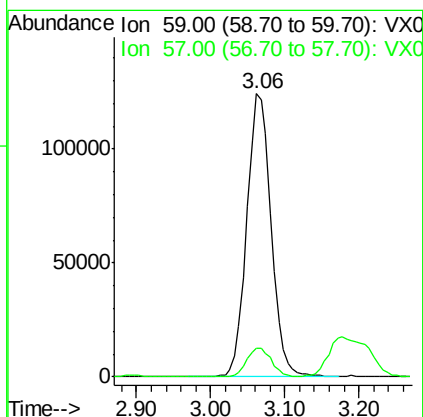
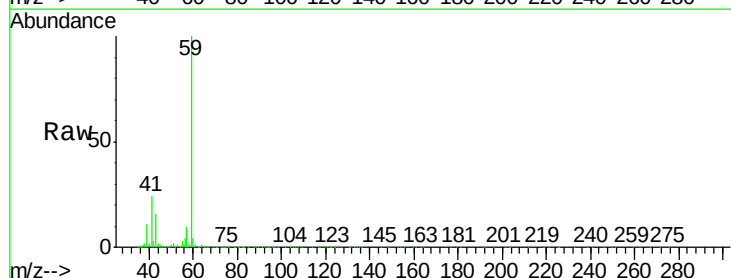
Instrument :
MSVOA_W
ClientSampled :

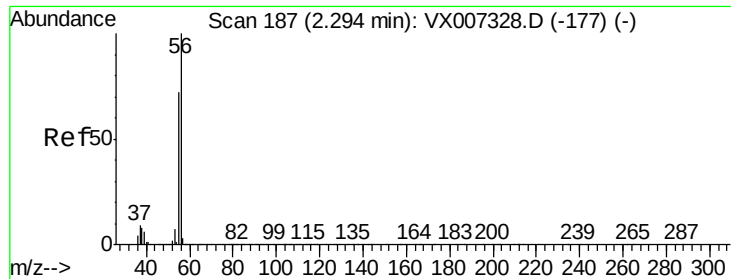
Tot Ion:142 Resp: 2684
Ion Ratio Lower Upper
142 100
127 47.9 33.7 50.5
141 3.1 11.3 16.9#



#11
Tert butyl alcohol
Concen: 269.084 ug/l
RT: 3.06 min Scan# 313
Delta R.T. -0.01 min
Lab File: VX007569.D
Acq: 15 Feb 2019 15:45

Tgt Ion: 59 Resp: 285278
Ion Ratio Lower Upper
59 100
57 10.4 8.1 12.1





#13

Acrolein

Concen: 1.203 ug/l

RT: 2.29 min Scan# 186

Delta R.T. -0.01 min

Lab File: VX007569.D

Acq: 15 Feb 2019 15:45

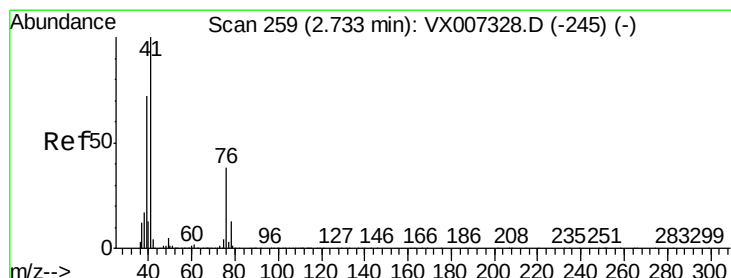
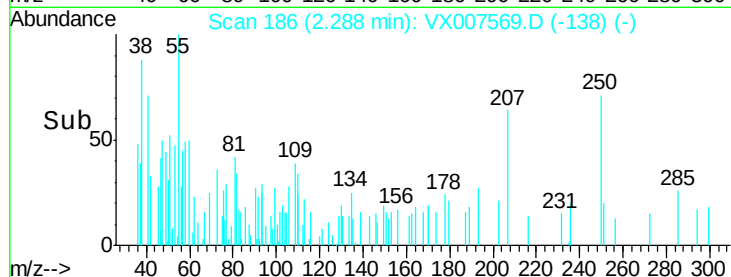
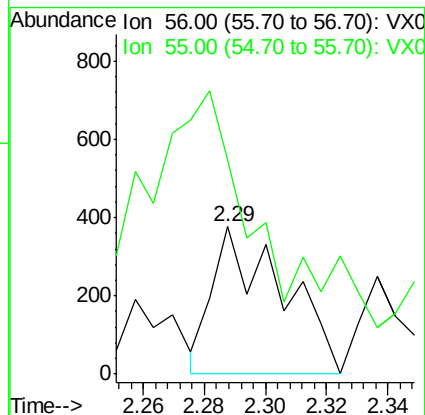
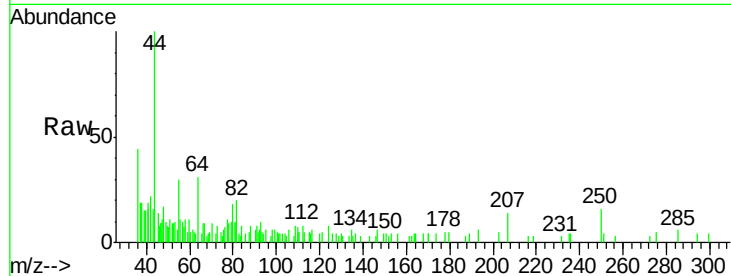
Instrument :
MSVOA_W
ClientSampled :

Tot Ion: 56 Resp: 598

Ion Ratio Lower Upper

56 100

55 287.6 56.9 85.3#



#14

Allyl chloride

Concen: 2.681 ug/l

RT: 2.84 min Scan# 277

Delta R.T. 0.11 min

Lab File: VX007569.D

Acq: 15 Feb 2019 15:45

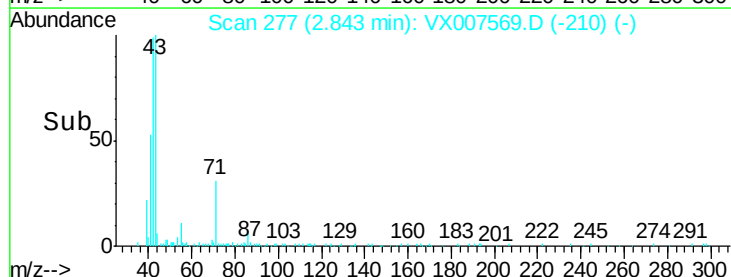
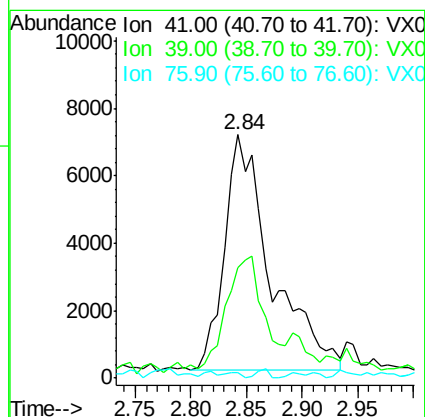
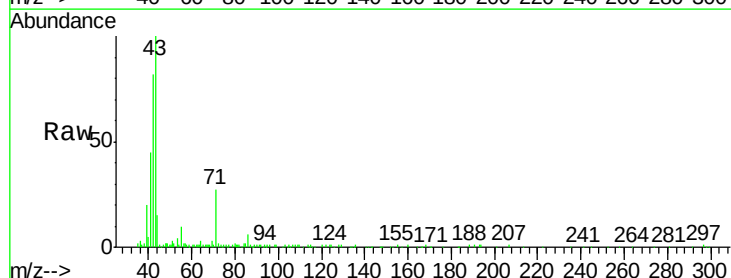
Tgt Ion: 41 Resp: 20132

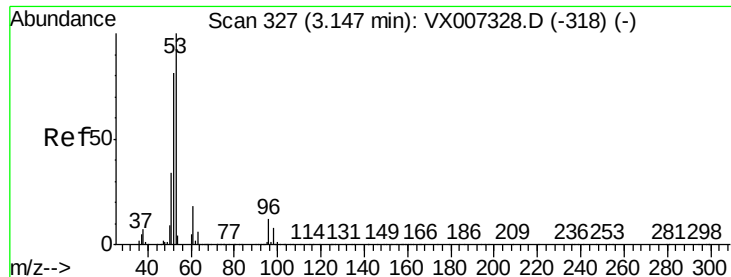
Ion Ratio Lower Upper

41 100

39 0.0 54.1 81.1#

76 0.0 27.8 41.8#





#15

Acrylonitrile

Concen: 0.311 ug/l

RT: 3.15 min Scan# 327

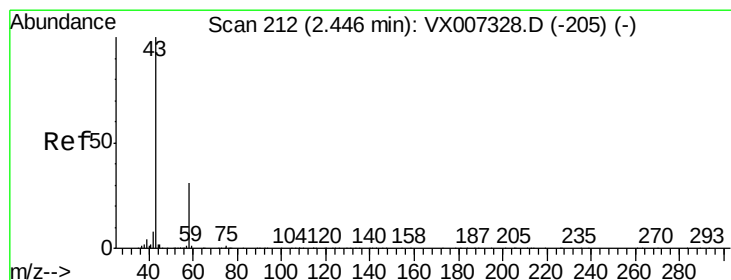
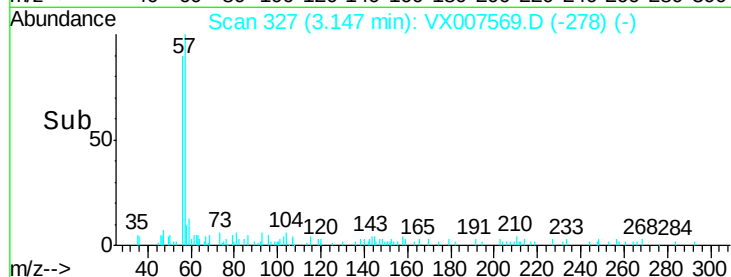
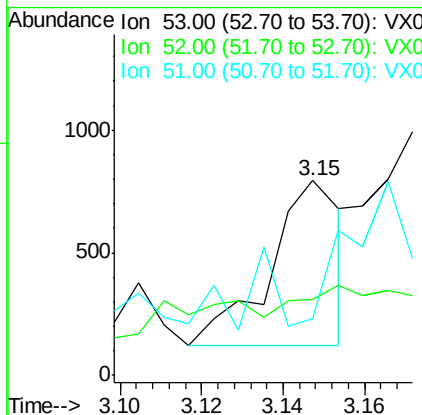
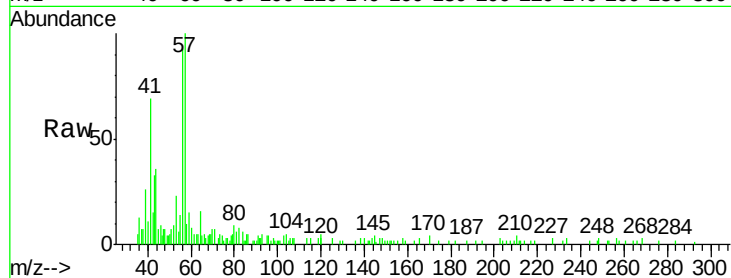
Delta R.T. 0.00 min

Lab File: VX007569.D

Acq: 15 Feb 2019 15:45

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion:	53	Resp:	815
Ion	Ratio	Lower	Upper
53	100		
52	39.9	66.4	99.6#
51	0.0	28.4	42.6#



#16

Acetone

Concen: 5.059 ug/l

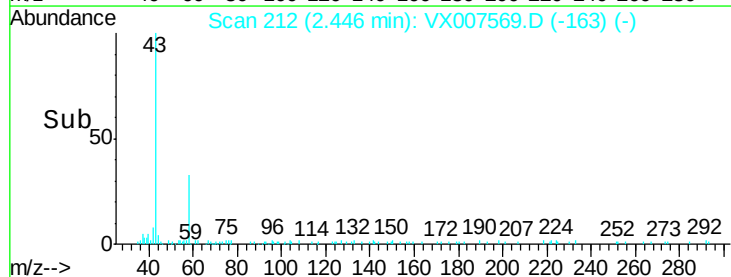
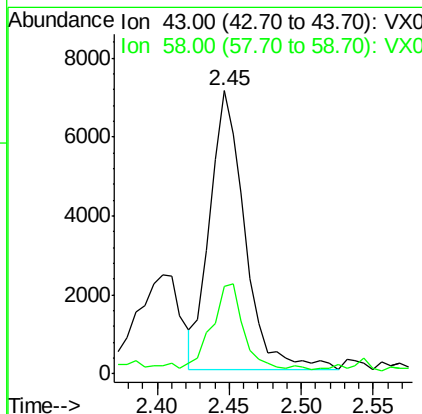
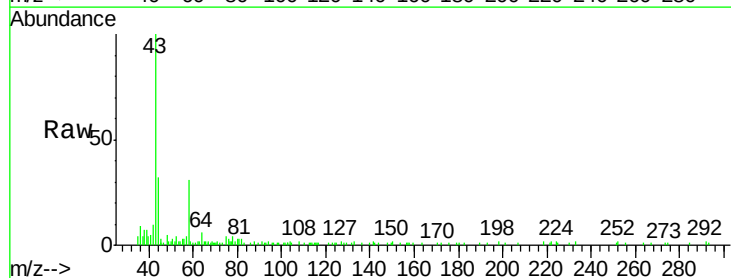
RT: 2.45 min Scan# 212

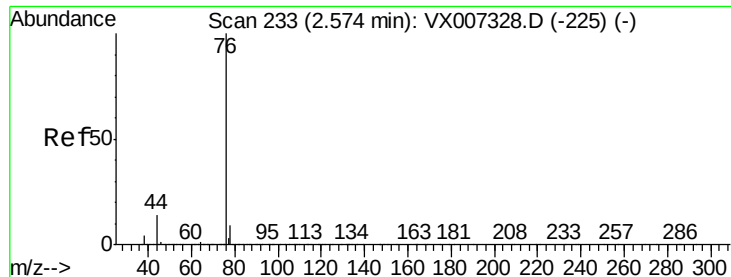
Delta R.T. 0.00 min

Lab File: VX007569.D

Acq: 15 Feb 2019 15:45

Tgt Ion:	43	Resp:	11871
Ion	Ratio	Lower	Upper
43	100		
58	28.1	24.9	37.3





#17

Carbon Disulfide

Concen: 2.381 ug/l

RT: 2.57 min Scan# 232

Delta R.T. -0.01 min

Lab File: VX007569.D

Acq: 15 Feb 2019 15:45

Instrument :

MSVOA_W

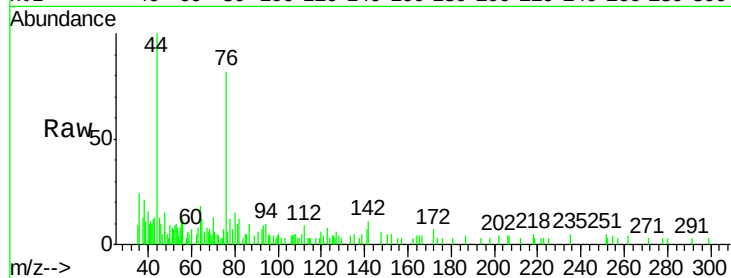
ClientSampleId :

Tot Ion: 76 Resp: 3272

Ion Ratio Lower Upper

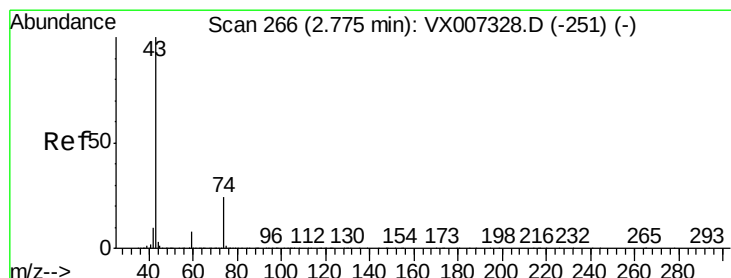
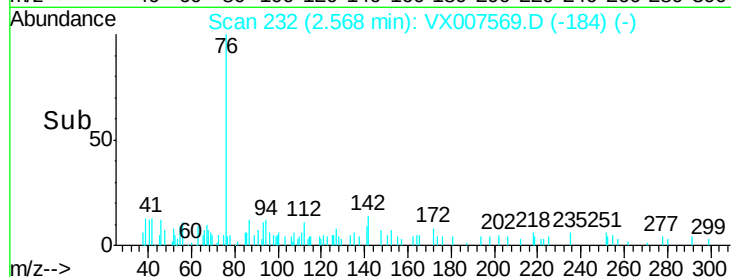
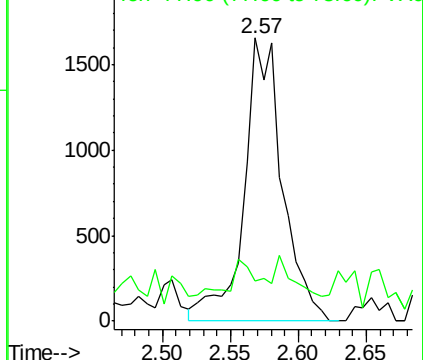
76 100

78 5.4 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#18

Methyl Acetate

Concen: 0.793 ug/l

RT: 2.78 min Scan# 267

Delta R.T. 0.01 min

Lab File: VX007569.D

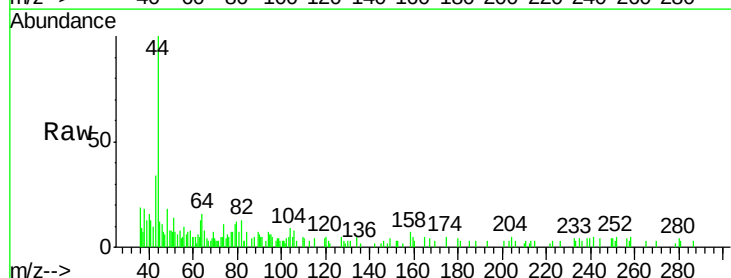
Acq: 15 Feb 2019 15:45

Tgt Ion: 43 Resp: 1236

Ion Ratio Lower Upper

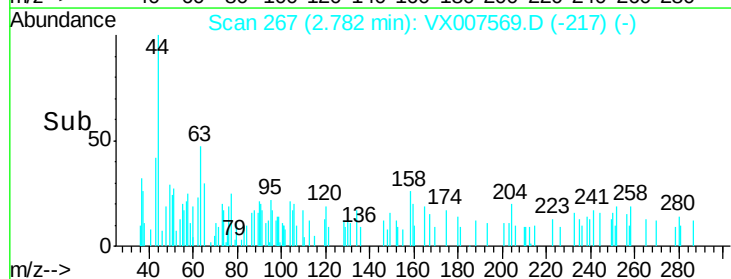
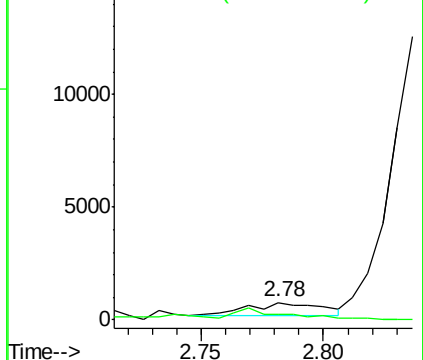
43 100

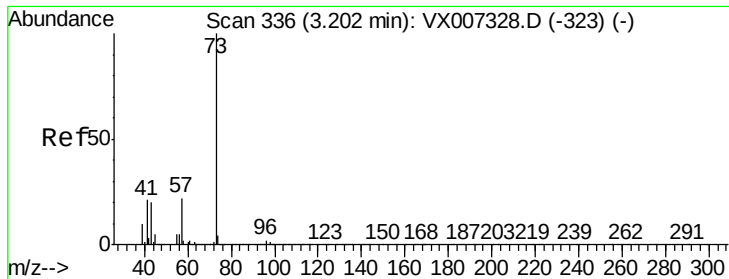
74 64.0 19.4 29.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

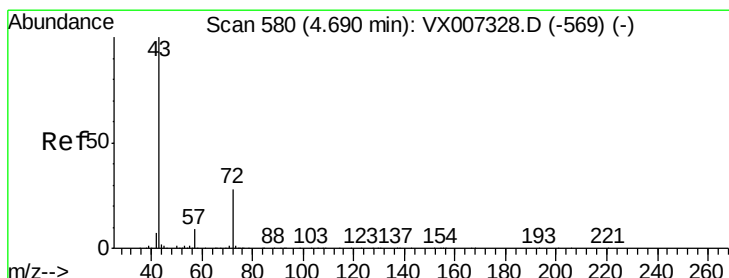
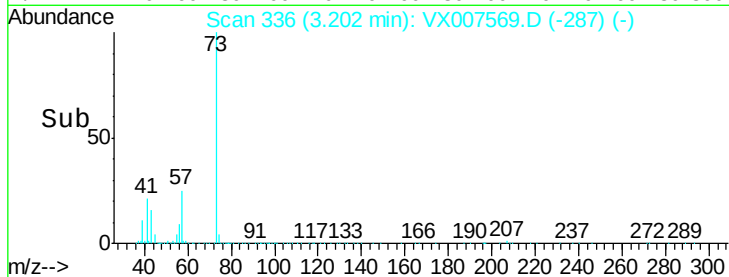
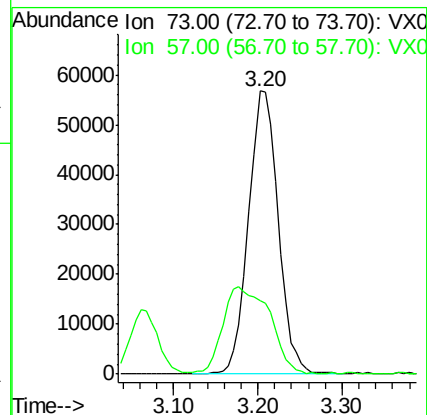
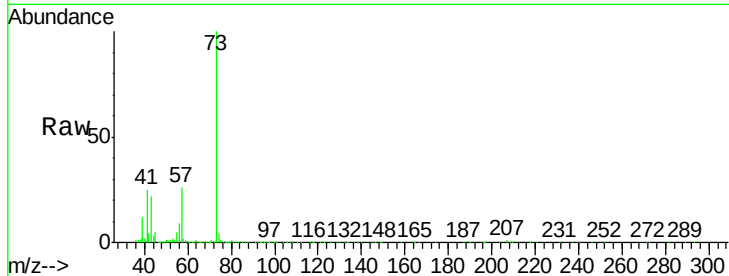




#19
Methyl tert-butyl Ether
Concen: 9.076 ug/l
RT: 3.20 min Scan# 336
Delta R.T. 0.00 min
Lab File: VX007569.D
Acq: 15 Feb 2019 15:45

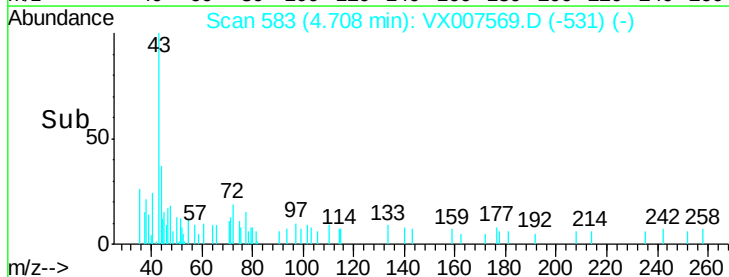
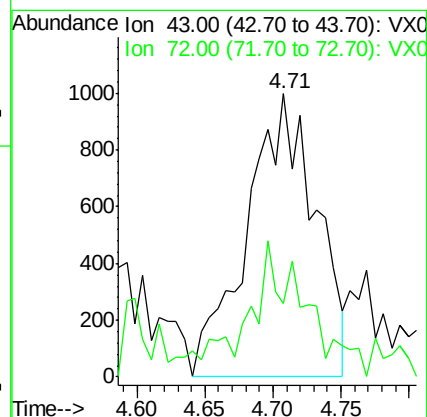
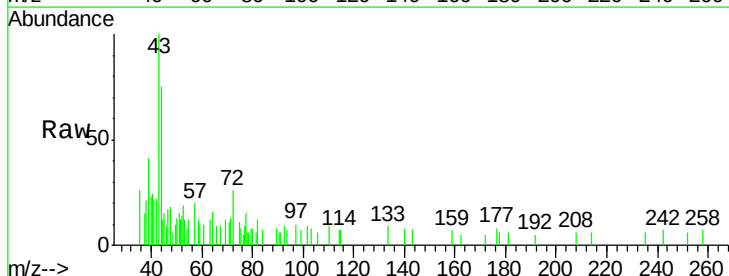
Instrument :
MSVOA_W
ClientSampled :

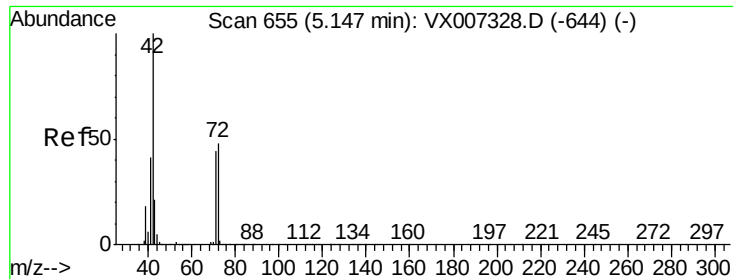
Tot Ion: 73 Resp: 135499
Ion Ratio Lower Upper
73 100
57 25.6 17.8 26.8



#25
2-Butanone
Concen: 1.049 ug/l
RT: 4.71 min Scan# 583
Delta R.T. 0.02 min
Lab File: VX007569.D
Acq: 15 Feb 2019 15:45

Tgt Ion: 43 Resp: 3503
Ion Ratio Lower Upper
43 100
72 16.8 22.2 33.2#

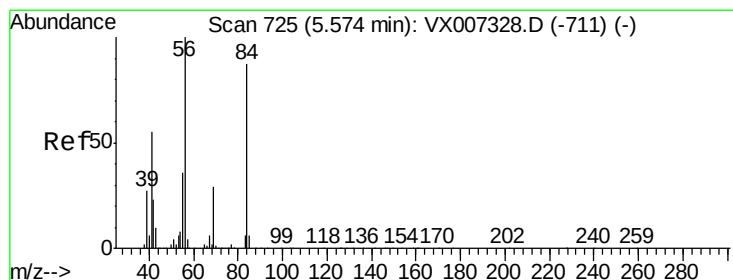
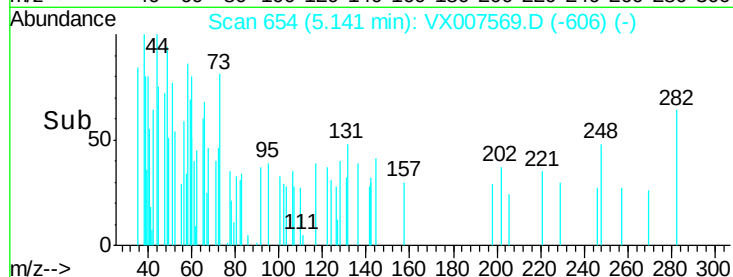
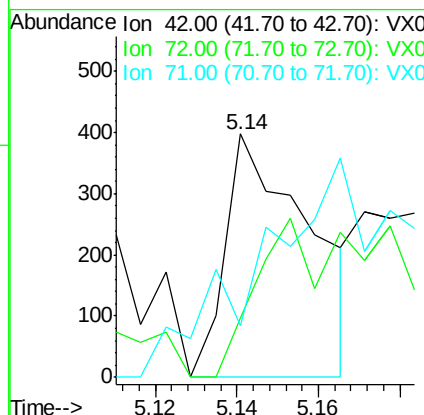
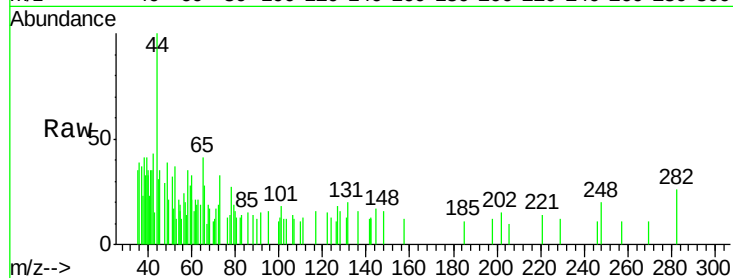




#29
Tetrahydrofuran
Concen: 0.269 ug/l
RT: 5.14 min Scan# 654
Delta R.T. -0.01 min
Lab File: VX007569.D
Acq: 15 Feb 2019 15:45

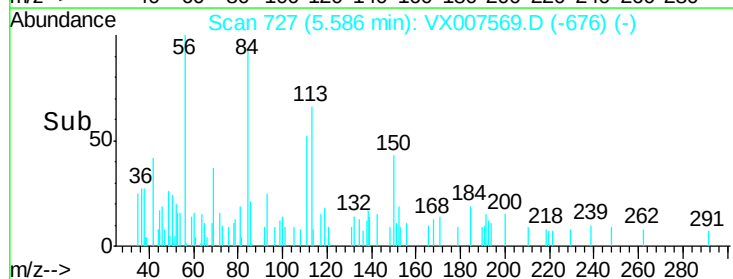
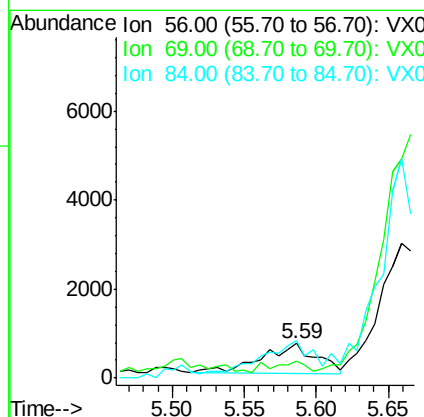
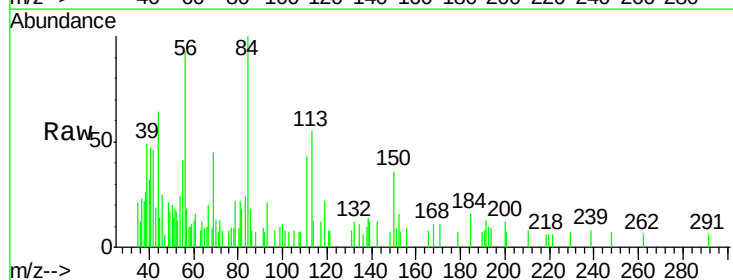
Instrument :
MSVOA_W
ClientSampled :

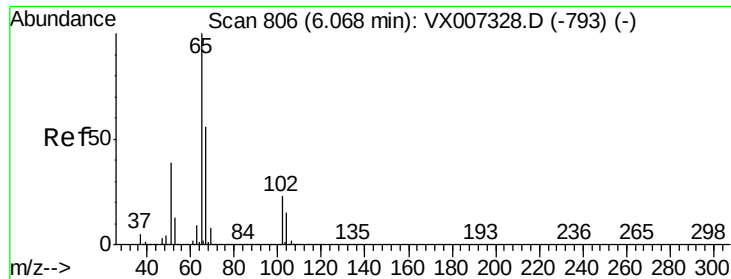
Tot Ion: 42 Resp: 565
Ion Ratio Lower Upper
42 100
72 0.0 37.6 56.4#
71 0.0 34.6 51.8#



#31
Cyclohexane
Concen: 0.254 ug/l
RT: 5.59 min Scan# 727
Delta R.T. 0.01 min
Lab File: VX007569.D
Acq: 15 Feb 2019 15:45

Tgt Ion: 56 Resp: 1808
Ion Ratio Lower Upper
56 100
69 22.0 23.0 34.6#
84 107.8 69.8 104.6#

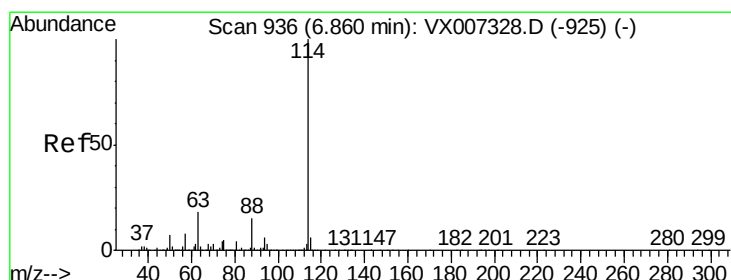
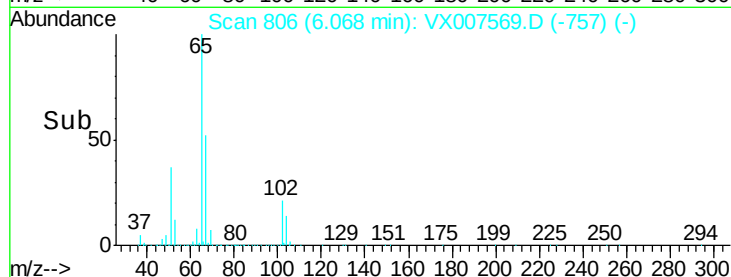
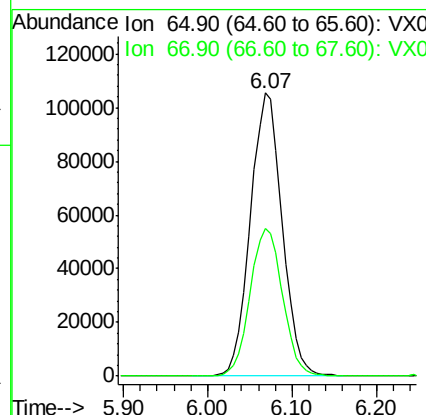
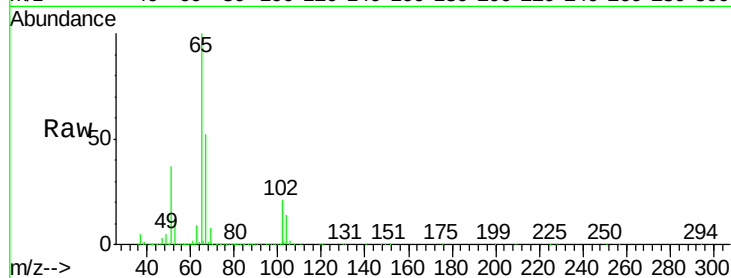




#33
 1,2-Dichloroethane-d4
 Concen: 52.393 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. 0.00 min
 Lab File: VX007569.D
 Acq: 15 Feb 2019 15:45

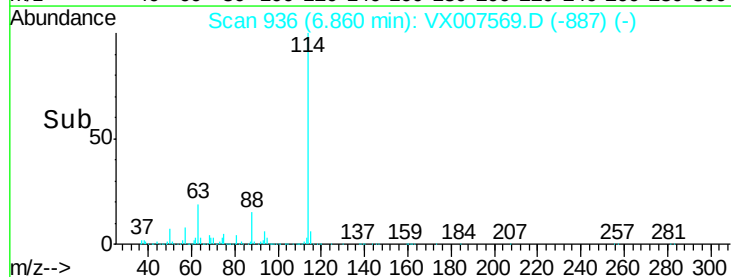
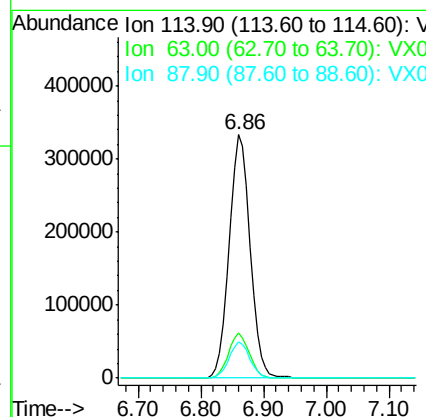
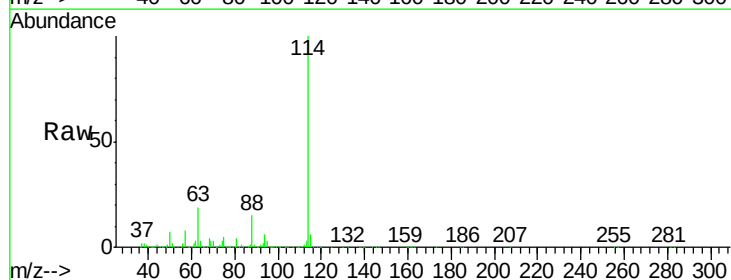
Instrument :
 MSVOA_W
 ClientSampleId :

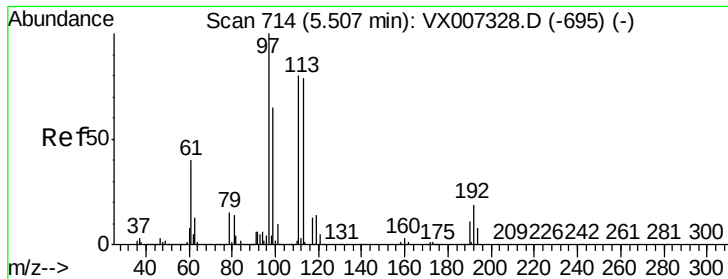
Tot Ion: 65 Resp: 268401
 Ion Ratio Lower Upper
 65 100
 67 53.4 0.0 108.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX007569.D
 Acq: 15 Feb 2019 15:45

Tgt Ion: 114 Resp: 772873
 Ion Ratio Lower Upper
 114 100
 63 18.5 0.0 35.6
 88 14.9 0.0 29.6

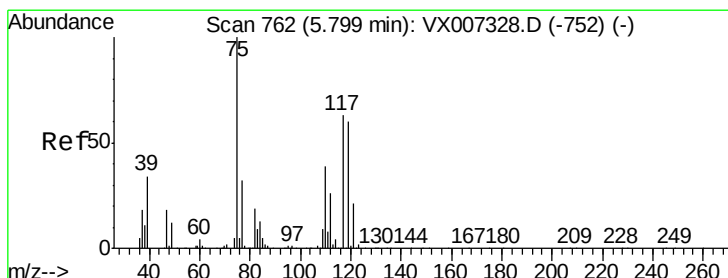
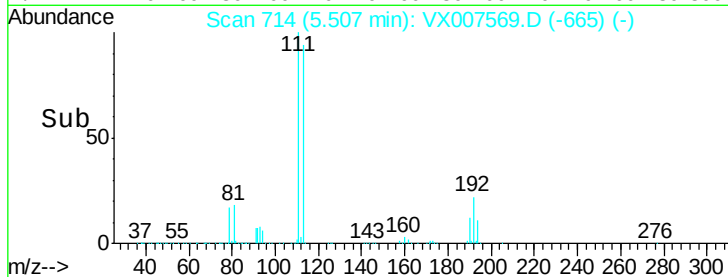
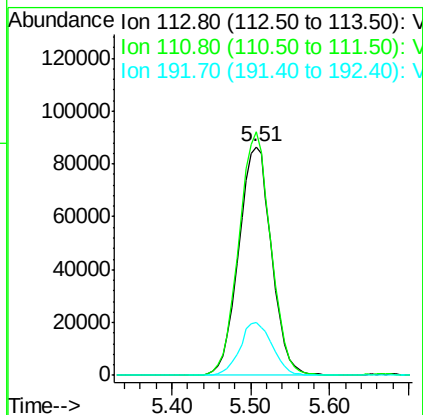
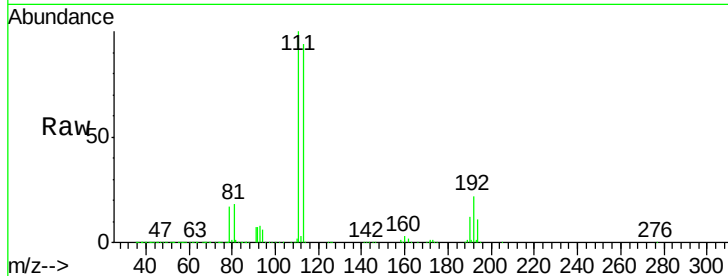




#35
 Dibromofluoromethane
 Concen: 49.679 ug/l
 RT: 5.51 min Scan# 714
 Delta R.T. 0.00 min
 Lab File: VX007569.D
 Acq: 15 Feb 2019 15:45

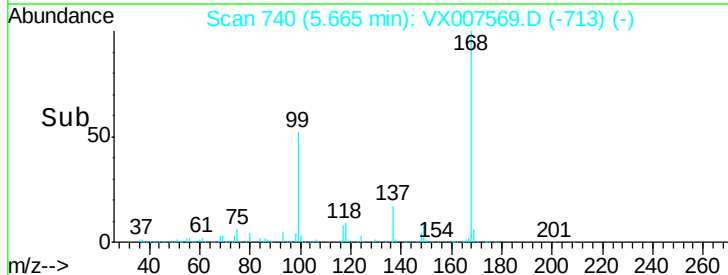
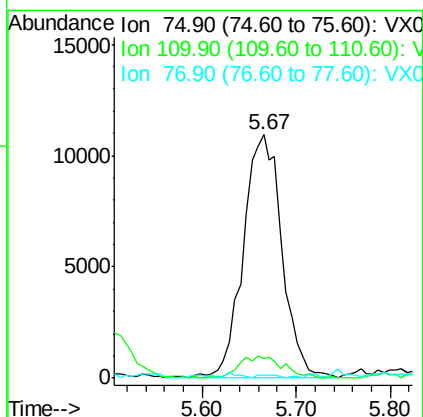
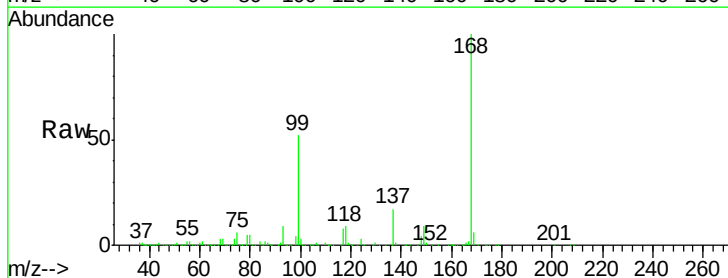
Instrument :
 MSVOA_W
 ClientSampleId :

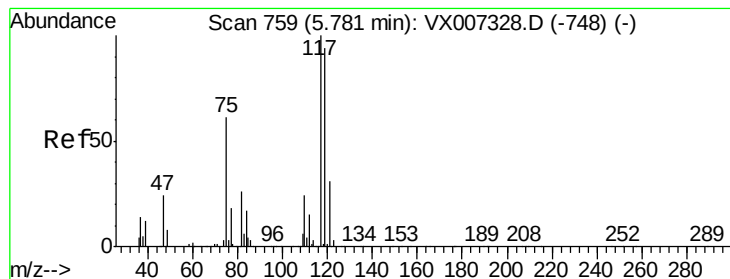
Tot Ion	Ratio	Lower	Upper
113	100		
111	104.2	81.8	122.8
192	22.8	18.5	27.7



#36
 1,1-Dichloropropene
 Concen: 4.538 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX007569.D
 Acq: 15 Feb 2019 15:45

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.3	20.0	59.9#
77	0.7	24.7	37.1#





#38

Carbon Tetrachloride

Concen: 6.614 ug/l

RT: 5.67 min Scan# 741

Delta R.T. -0.11 min

Lab File: VX007569.D

Acq: 15 Feb 2019 15:45

Instrument :

MSVOA_W

ClientSampled :

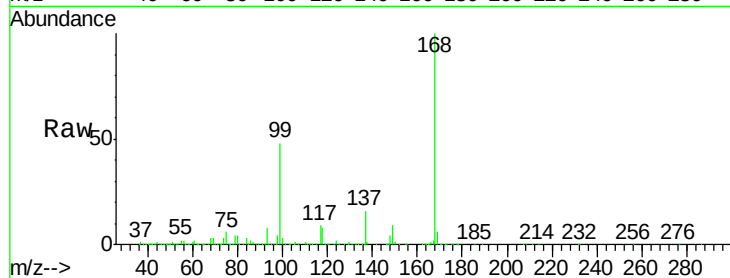
Tot Ion:117 Resp: 44495

Ion Ratio Lower Upper

117 100

119 3.3 75.3 112.9#

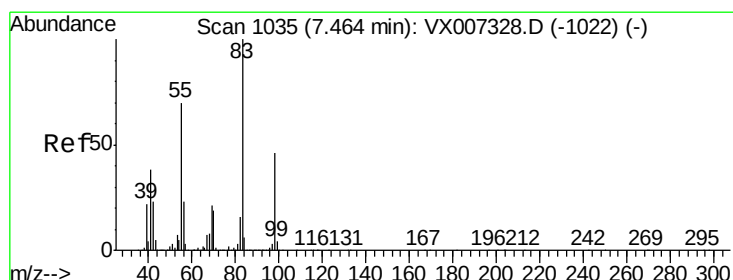
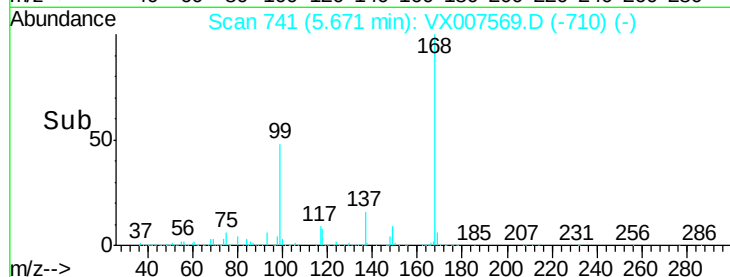
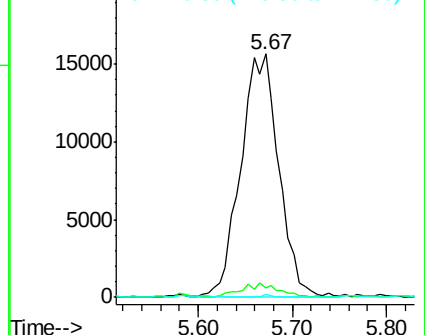
121 1.0 25.0 37.4#



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



#39

Methylcyclohexane

Concen: 0.513 ug/l

RT: 7.45 min Scan# 1032

Delta R.T. -0.02 min

Lab File: VX007569.D

Acq: 15 Feb 2019 15:45

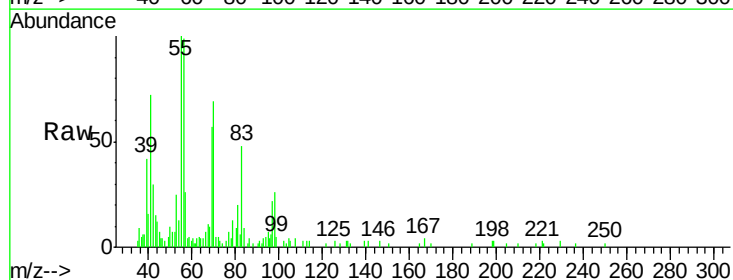
Tgt Ion: 83 Resp: 4301

Ion Ratio Lower Upper

83 100

55 201.4 56.2 84.2#

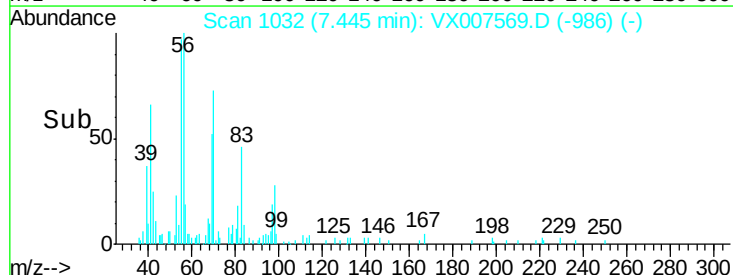
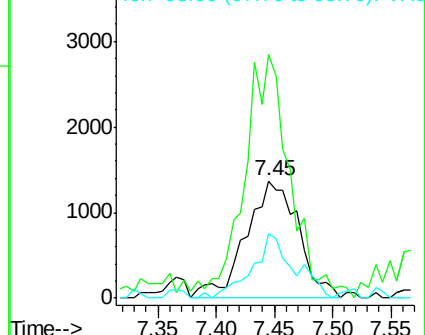
98 54.7 36.8 55.2

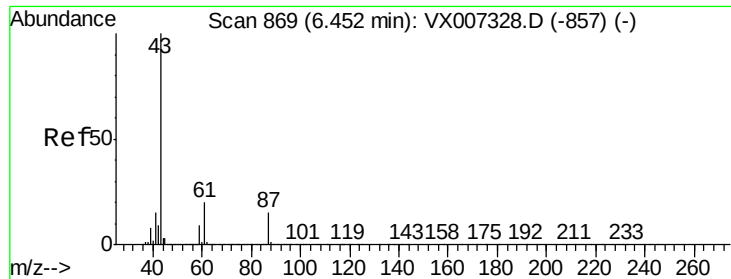


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0





#43

Isopropyl Acetate

Concen: 6.695 ug/l

RT: 6.35 min Scan# 852

Delta R.T. -0.10 min

Lab File: VX007569.D

Acq: 15 Feb 2019 15:45

Instrument :

MSVOA_W

ClientSampled :

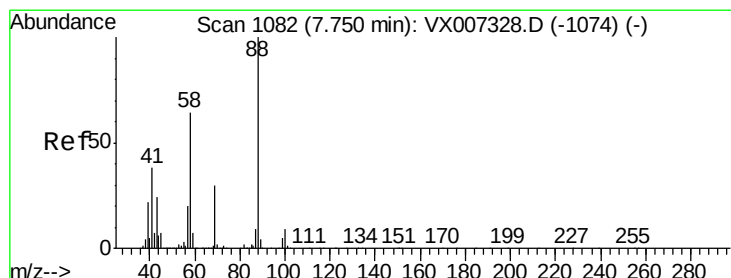
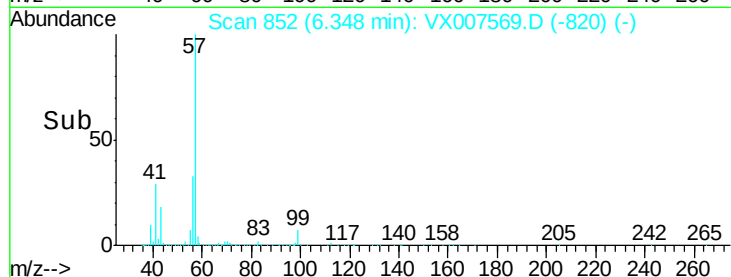
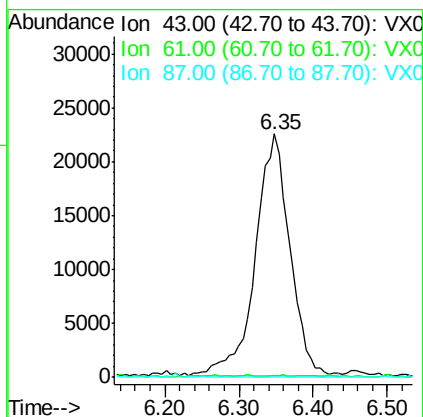
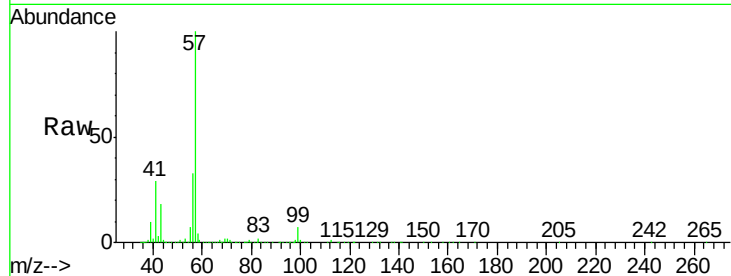
Tot Ion: 43 Resp: 72438

Ion Ratio Lower Upper

43 100

61 0.4 16.1 24.1#

87 0.1 11.5 17.3#



#49

1,4-Dioxane

Concen: 7.791 ug/l

RT: 7.76 min Scan# 1084

Delta R.T. 0.01 min

Lab File: VX007569.D

Acq: 15 Feb 2019 15:45

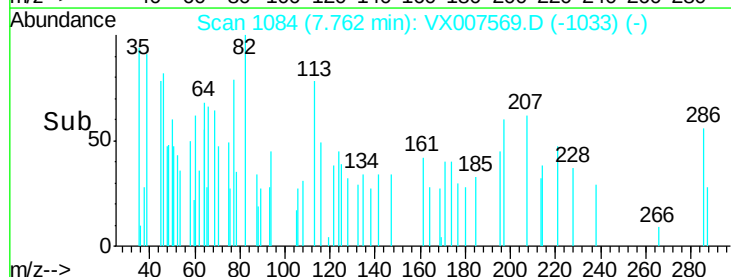
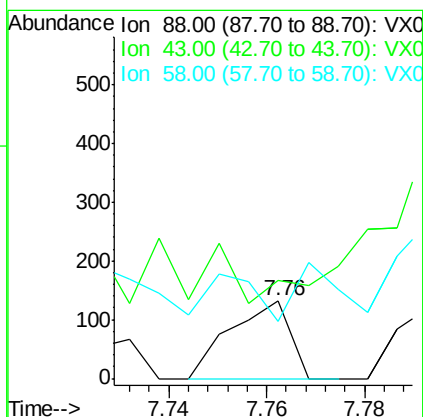
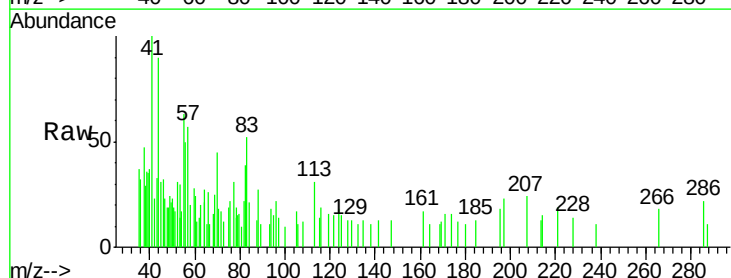
Tgt Ion: 88 Resp: 113

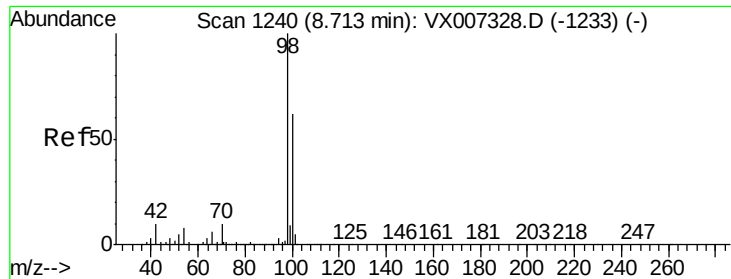
Ion Ratio Lower Upper

88 100

43 0.0 24.2 36.4#

58 142.5 53.0 79.4#





#50

Toluene-d8

Concen: 48.422 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX007569.D

Acq: 15 Feb 2019 15:45

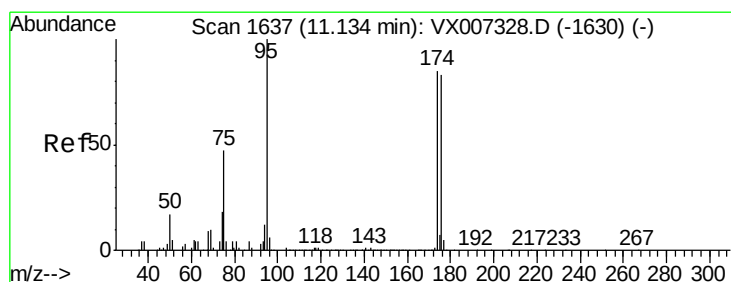
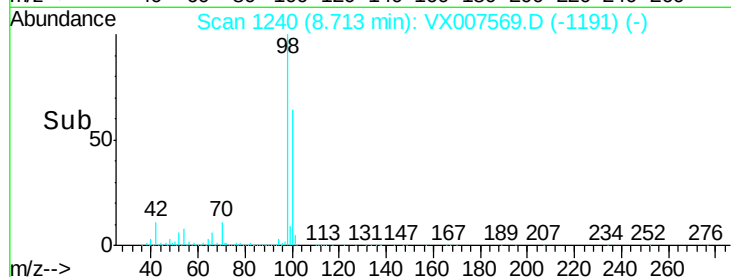
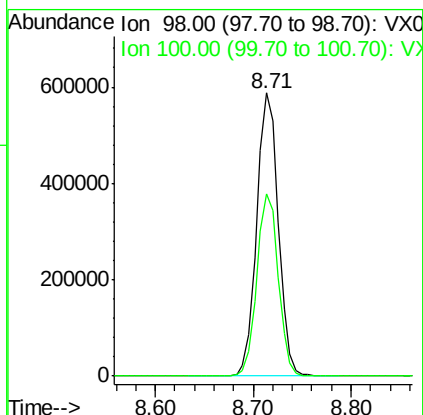
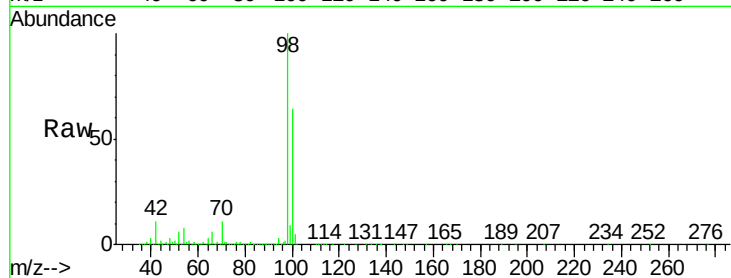
Instrument :
MSVOA_W
ClientSampleId :

Tot Ion: 98 Resp: 903439

Ion Ratio Lower Upper

98 100

100 64.0 51.6 77.4



#62

4-Bromofluorobenzene

Concen: 46.591 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX007569.D

Acq: 15 Feb 2019 15:45

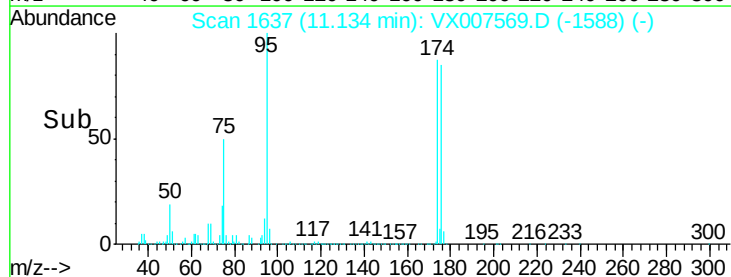
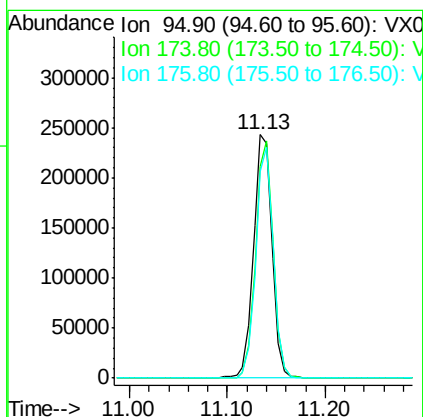
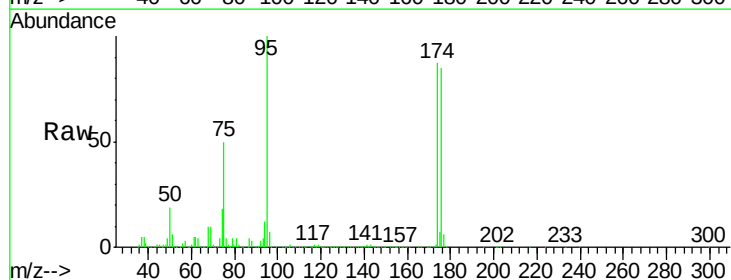
Tgt Ion: 95 Resp: 317377

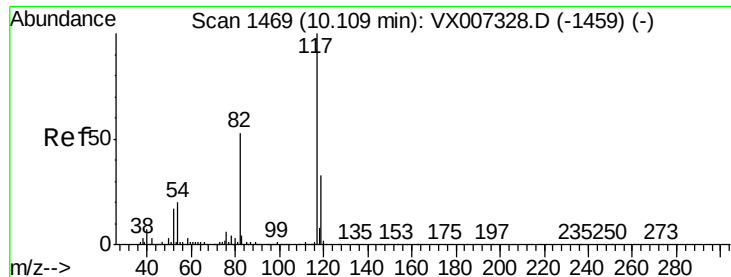
Ion Ratio Lower Upper

95 100

174 92.2 0.0 189.2

176 89.5 0.0 186.2

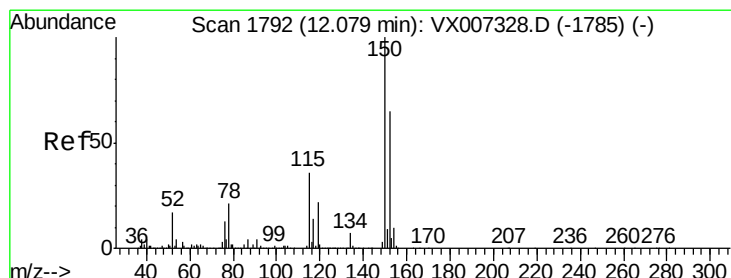
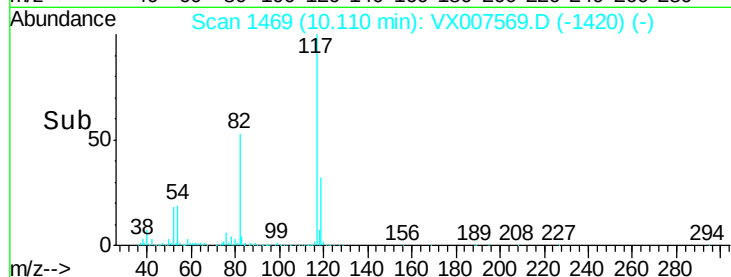
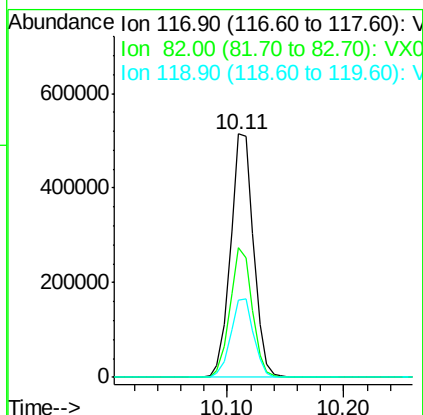
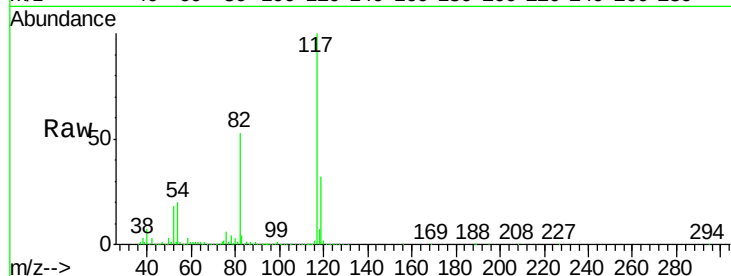




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX007569.D
Acq: 15 Feb 2019 15:45

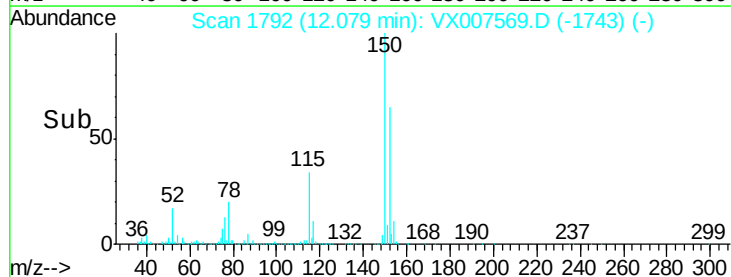
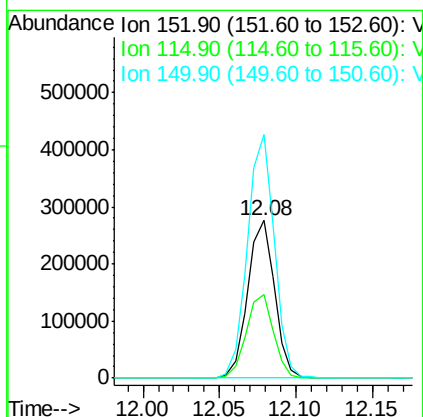
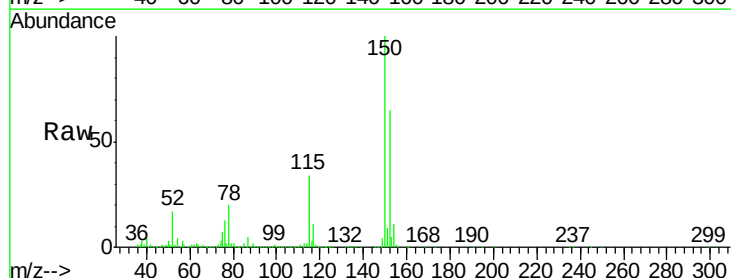
Instrument :
MSVOA_W
ClientSampleId :

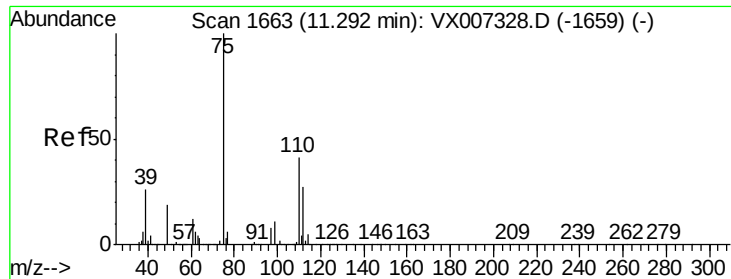
Tot Ion:117 Resp: 706163
Ion Ratio Lower Upper
117 100
82 53.1 42.1 63.1
119 31.9 26.5 39.7



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX007569.D
Acq: 15 Feb 2019 15:45

Tgt Ion:152 Resp: 337280
Ion Ratio Lower Upper
152 100
115 54.0 38.0 114.0
150 154.4 0.0 346.4

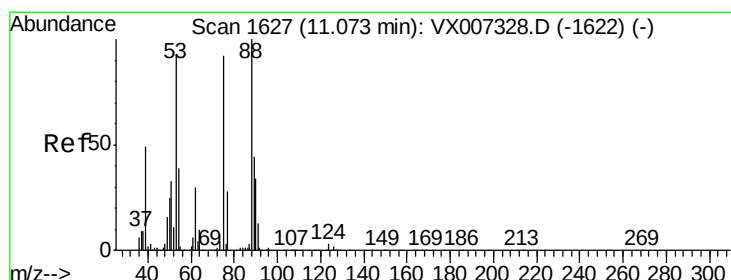
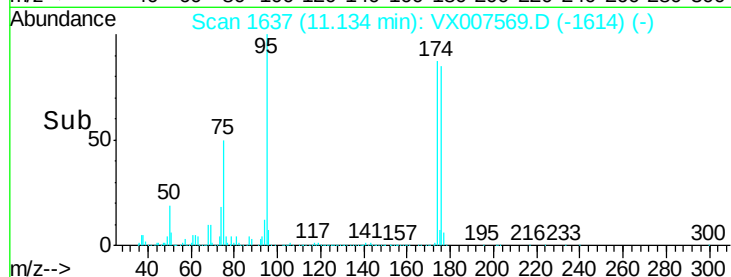
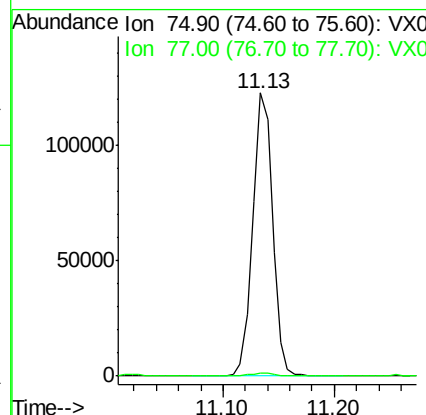
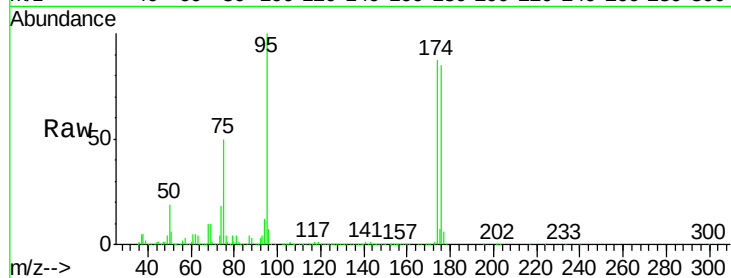




#76
 1,2,3-Trichloropropane
 Concen: 23.249 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX007569.D
 Acq: 15 Feb 2019 15:45

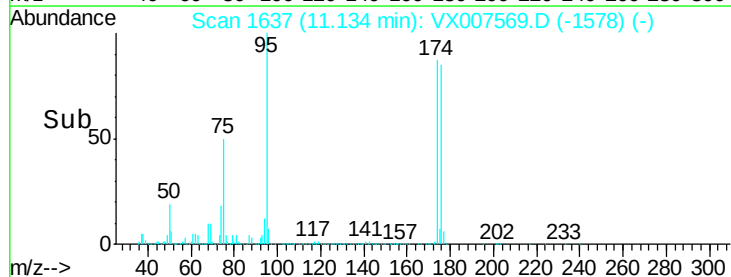
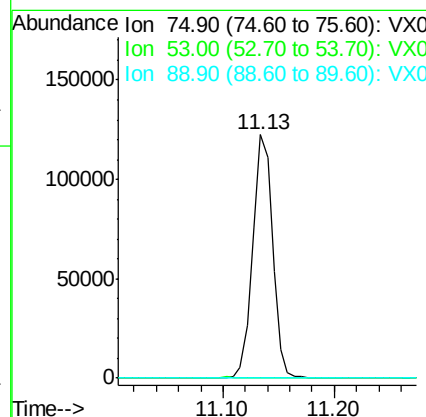
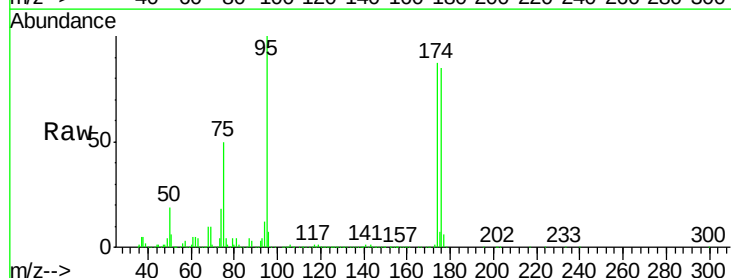
Instrument :
 MSVOA_W
 ClientSampled :

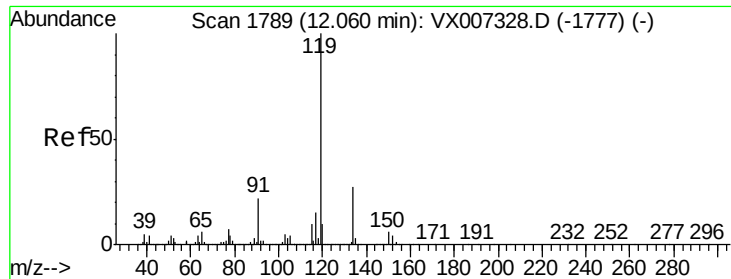
Tot Ion: 75 Resp: 152524
 Ion Ratio Lower Upper
 75 100
 77 1.1 23.0 69.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 70.011 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX007569.D
 Acq: 15 Feb 2019 15:45

Tgt Ion: 75 Resp: 152524
 Ion Ratio Lower Upper
 75 100
 53 0.3 81.0 121.6#
 89 0.0 41.4 62.0#

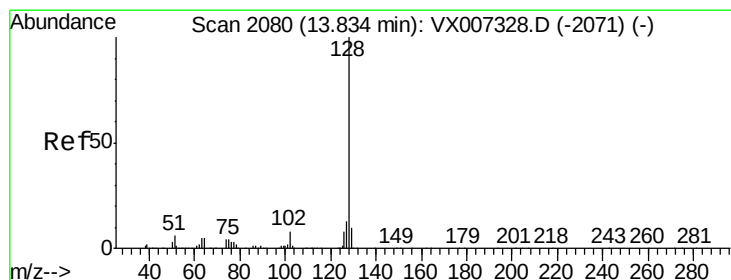
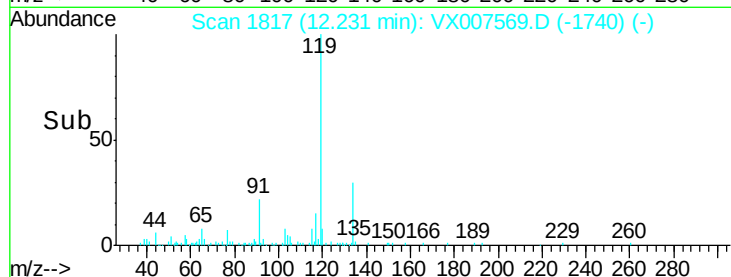
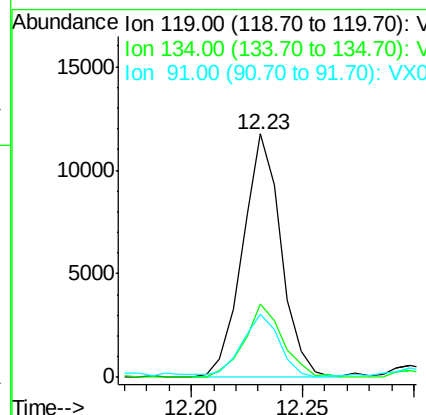
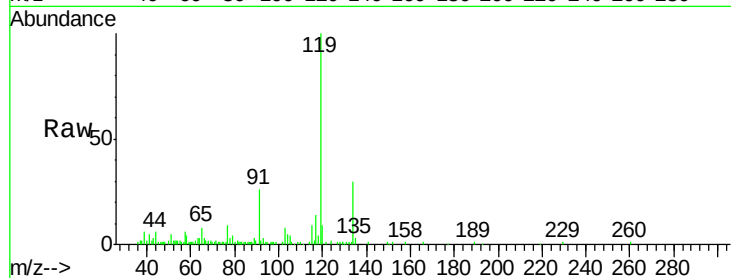




#86
 p-Isopropyltoluene
 Concen: 0.698 ug/l
 RT: 12.23 min Scan# 1817
 Delta R.T. 0.17 min
 Lab File: VX007569.D
 Acq: 15 Feb 2019 15:45

Instrument :
 MSVOA_W
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
119	100		
134	30.1	13.7	41.1
91	25.7	11.2	33.5



#95
 Naphthalene
 Concen: 0.227 ug/l
 RT: 13.83 min Scan# 2080
 Delta R.T. 0.00 min
 Lab File: VX007569.D
 Acq: 15 Feb 2019 15:45

Tgt Ion	Ratio	Lower	Upper
128	100		
127	21.3	10.5	15.7#
129	21.6	8.7	13.1#

