

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062819\
 Data File : VX010566.D
 Acq On : 29 Jun 2019 04:15
 Operator : JC/SP
 Sample : K3555-12
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SAMPLE-9

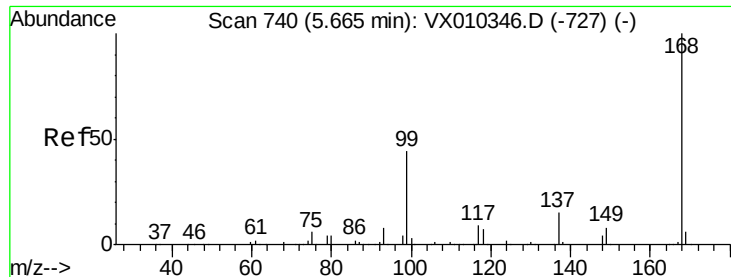
Quant Time: Jun 29 07:02:38 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X061919W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 20 03:31:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	251014	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	388589	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	359772	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	161392	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	120051	51.01	ug/l	0.00
Spiked Amount 50.000			Recovery	=	102.02%	
35) Dibromofluoromethane	5.50	113	116763	49.11	ug/l	0.00
Spiked Amount 50.000			Recovery	=	98.22%	
50) Toluene-d8	8.71	98	470128	51.69	ug/l	0.00
Spiked Amount 50.000			Recovery	=	103.38%	
62) 4-Bromofluorobenzene	11.13	95	153746	46.82	ug/l	0.00
Spiked Amount 50.000			Recovery	=	93.64%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	2.19	74	470	0.371	ug/l	53
11) Tert butyl alcohol	3.05	59	853	1.385	ug/l #	52
13) Acrolein	2.28	56	488	1.195	ug/l #	79
15) Acrylonitrile	3.14	53	255	0.209	ug/l #	55
16) Acetone	2.44	43	8018	6.798	ug/l	95
18) Methyl Acetate	2.78	43	2361	1.004	ug/l	93
20) Methylene Chloride	2.86	84	5594	2.305	ug/l	90
25) 2-Butanone	4.68	43	2871	1.659	ug/l #	86
29) Tetrahydrofuran	5.15	42	826	0.771	ug/l #	87
30) Chloroform	5.21	83	2700	0.672	ug/l	94
31) Cyclohexane	5.66	56	4237	1.246	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	15850	5.133	ug/l #	47
38) Carbon Tetrachloride	5.67	117	22912	6.852	ug/l #	16
43) Isopropyl Acetate	6.45	43	10451	1.988	ug/l	98
47) Bromodichloromethane	7.89	83	656	0.205	ug/l #	83
48) Methyl methacrylate	7.68	41	6140	2.513	ug/l #	10
49) 1,4-Dioxane	7.76	88	19	0.270	ug/l #	1
51) 4-Methyl-2-Pentanone	8.61	43	73484	21.861	ug/l #	47
54) cis-1,3-Dichloropropene	8.62	75	40990	10.532	ug/l #	61
57) 1,3-Dichloropropane	9.54	76	9333	2.301	ug/l #	44
59) 2-Hexanone	9.54	43	112912	42.679	ug/l #	51
76) 1,2,3-Trichloropropane	11.13	75	74501	25.332	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	74501	59.097	ug/l #	16

(#) = 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. 0.00 min

Lab File: VX010566.D

Acq: 29 Jun 2019 04:15

Instrument :

MSVOA_X

ClientSampleId :

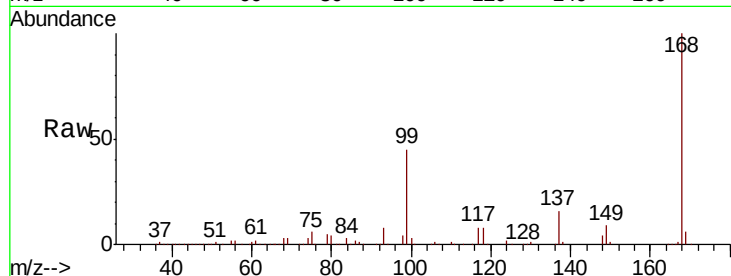
SAMPLE-9

Tot Ion:168 Resp: 251014

Ion Ratio Lower Upper

168 100

99 45.0 35.5 53.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

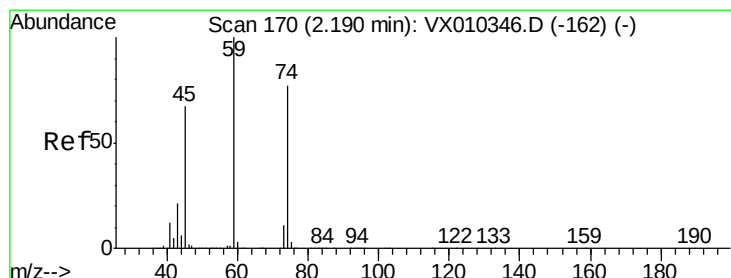
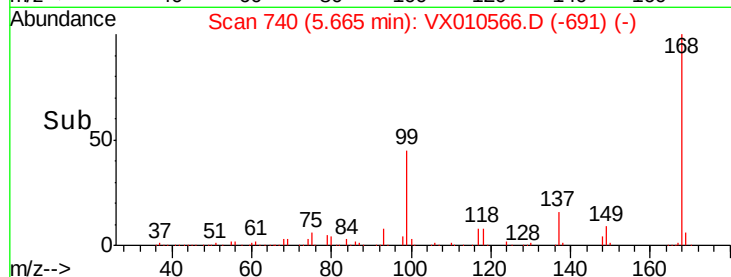
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#8

Diethyl Ether

Concen: 0.371 ug/l

RT: 2.19 min Scan# 170

Delta R.T. 0.00 min

Lab File: VX010566.D

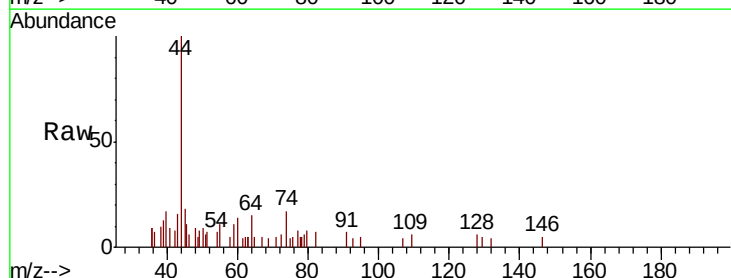
Acq: 29 Jun 2019 04:15

Tgt Ion: 74 Resp: 470

Ion Ratio Lower Upper

74 100

45 45.1 44.8 134.4



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

500

400

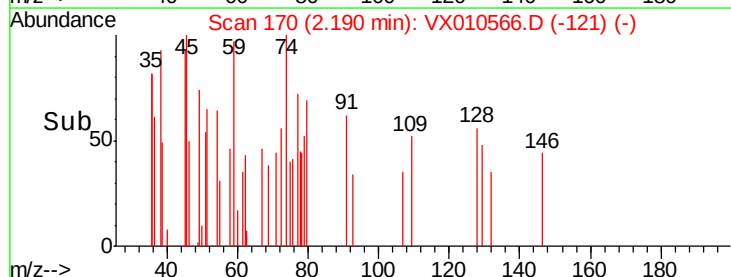
300

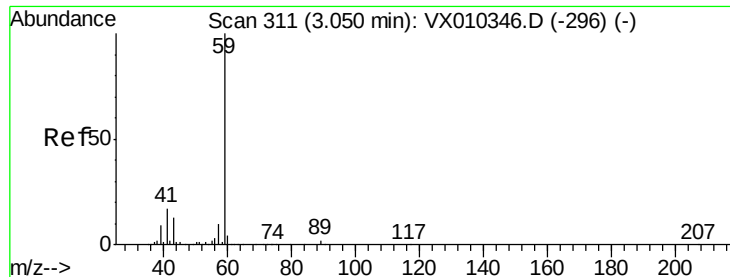
200

100

0

Time--> 2.10 2.15 2.20

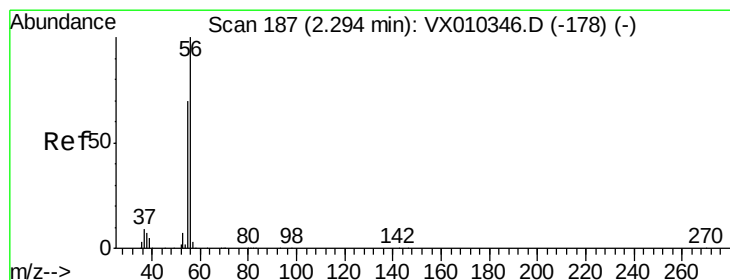
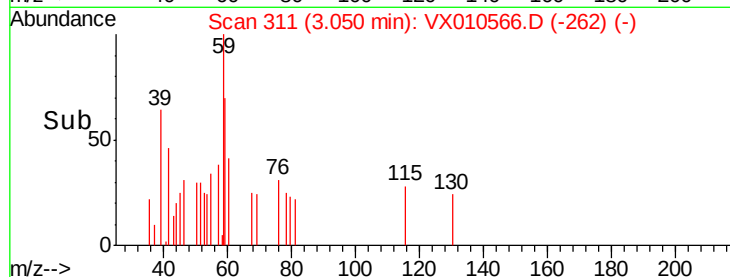
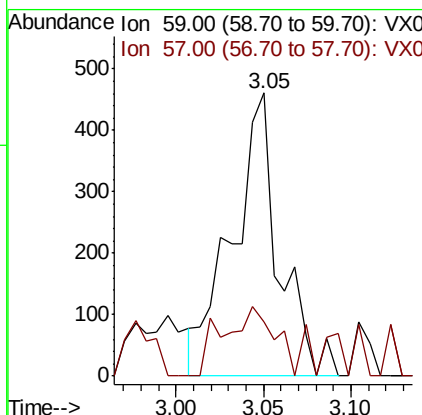
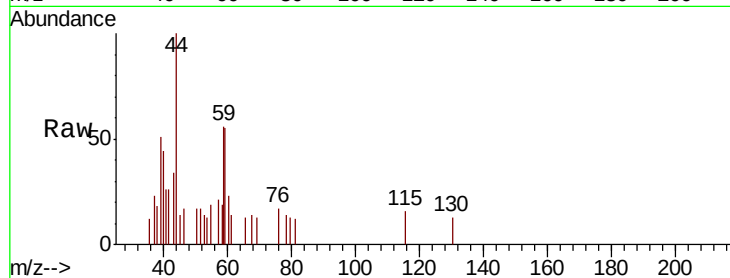




#11
Tert butyl alcohol
Concen: 1.385 ug/l
RT: 3.05 min Scan# 311
Delta R.T. 0.00 min
Lab File: VX010566.D
Acq: 29 Jun 2019 04:15

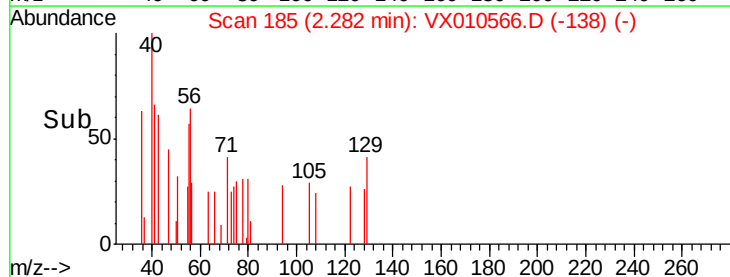
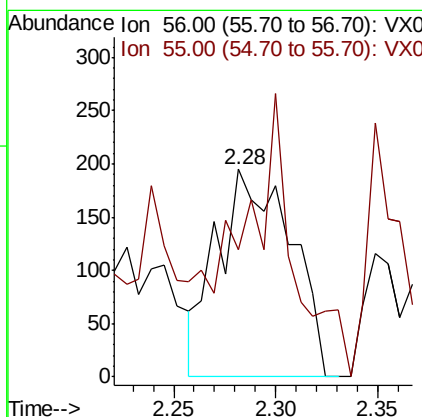
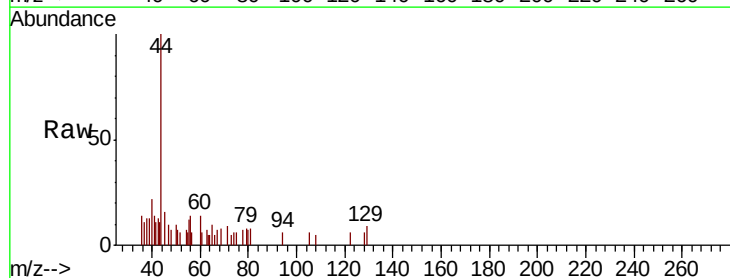
Instrument :
MSVOA_X
ClientSampled :
SAMPLE-9

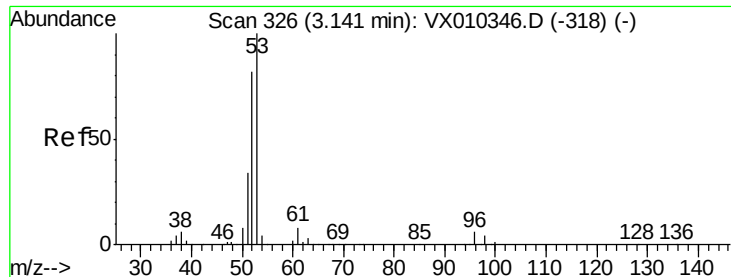
Tot Ion: 59 Resp: 853
Ion Ratio Lower Upper
59 100
57 27.3 7.7 11.5#



#13
Acrolein
Concen: 1.195 ug/l
RT: 2.28 min Scan# 185
Delta R.T. -0.01 min
Lab File: VX010566.D
Acq: 29 Jun 2019 04:15

Tgt Ion: 56 Resp: 488
Ion Ratio Lower Upper
56 100
55 88.7 56.9 85.3#





#15

Acrylonitrile

Concen: 0.209 ug/l

RT: 3.14 min Scan# 325

Delta R.T. -0.01 min

Lab File: VX010566.D

Acq: 29 Jun 2019 04:15

Instrument :

MSVOA_X

ClientSampled :

SAMPLE-9

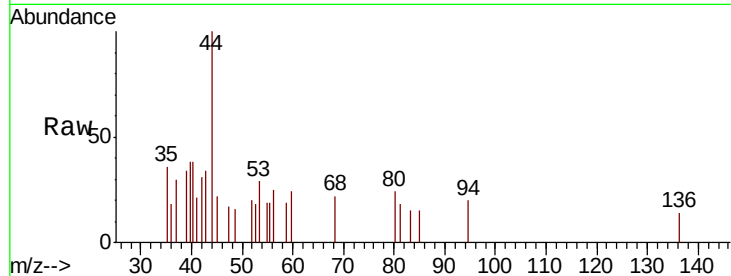
Tot Ion: 53 Resp: 255

Ion Ratio Lower Upper

53 100

52 47.1 65.5 98.3#

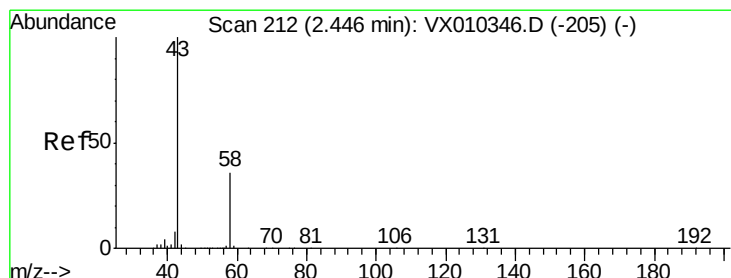
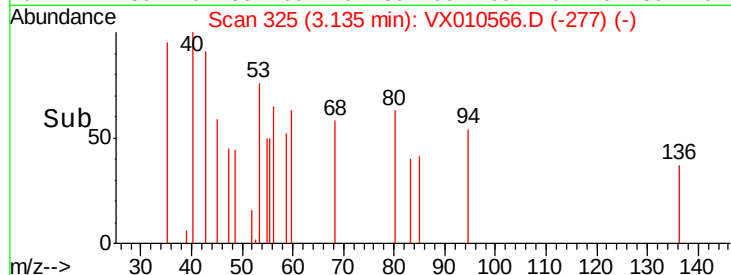
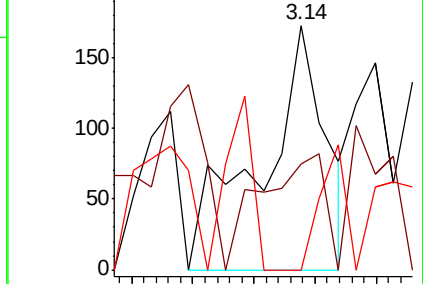
51 0.0 28.2 42.4#



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: 6.798 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX010566.D

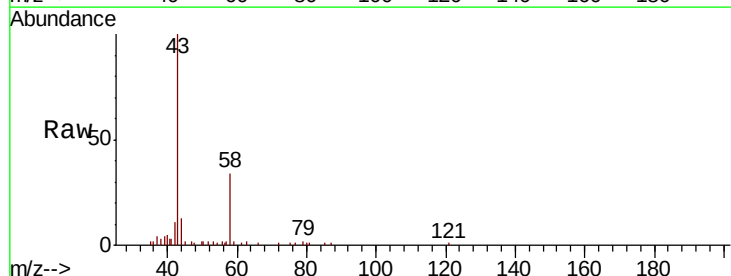
Acq: 29 Jun 2019 04:15

Tgt Ion: 43 Resp: 8018

Ion Ratio Lower Upper

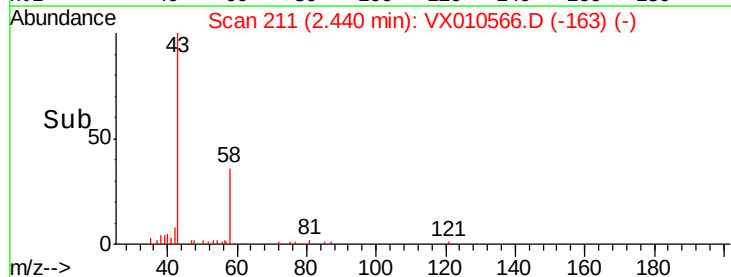
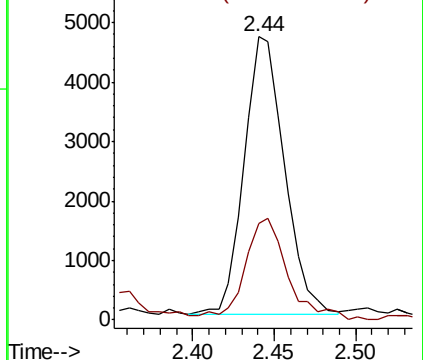
43 100

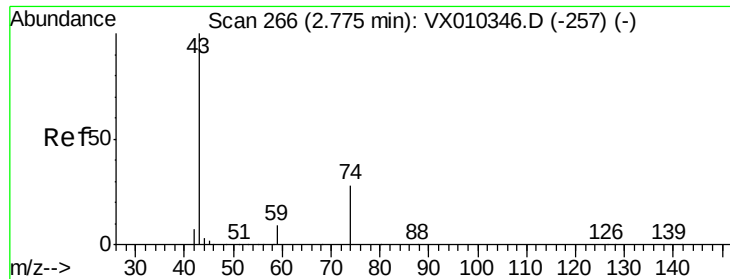
58 32.9 28.9 43.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

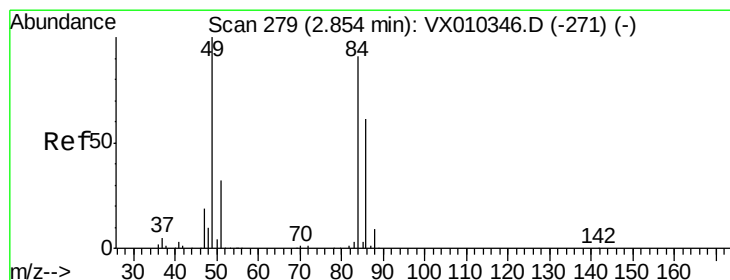
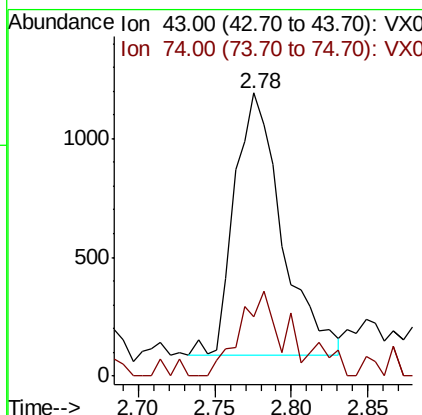
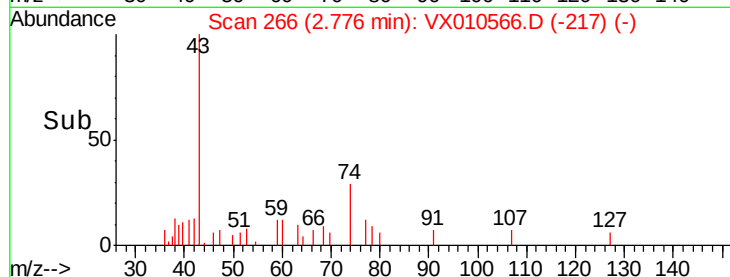
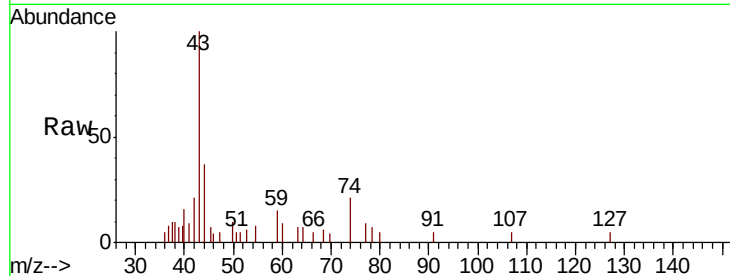




#18
Methvl Acetate
Concen: 1.004 ug/l
RT: 2.78 min Scan# 266
Delta R.T. 0.00 min
Lab File: VX010566.D
Acq: 29 Jun 2019 04:15

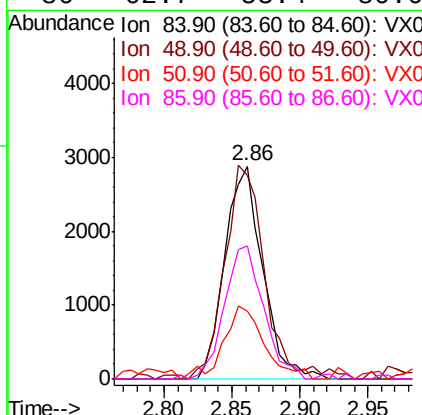
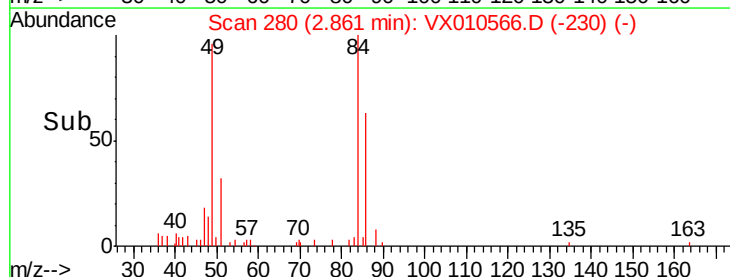
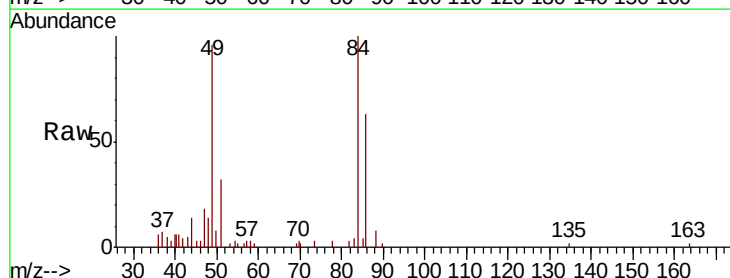
Instrument :
MSVOA_X
ClientSampleId :
SAMPLE-9

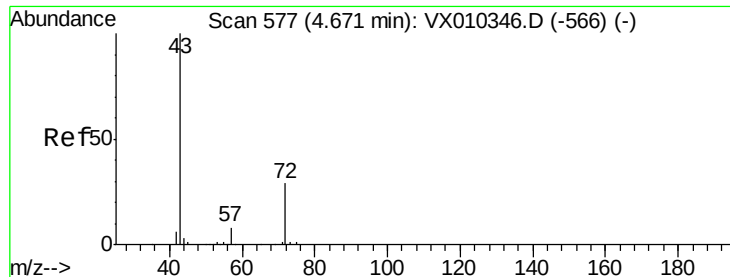
Tot Ion: 43 Resp: 2361
Ion Ratio Lower Upper
43 100
74 30.4 21.3 31.9



#20
Methylene Chloride
Concen: 2.305 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX010566.D
Acq: 29 Jun 2019 04:15

Tgt Ion: 84 Resp: 5594
Ion Ratio Lower Upper
84 100
49 95.6 87.5 131.3
51 29.5 27.7 41.5
86 62.7 53.4 80.0

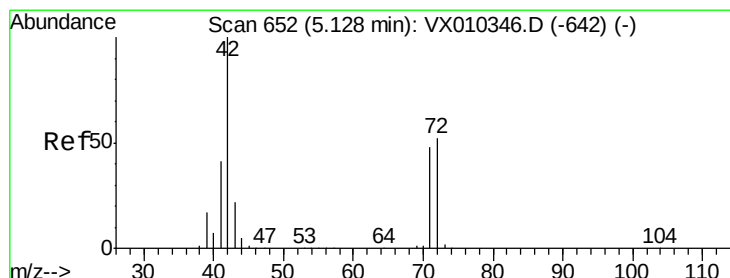
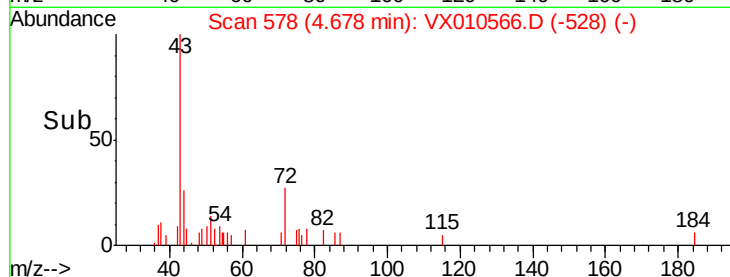
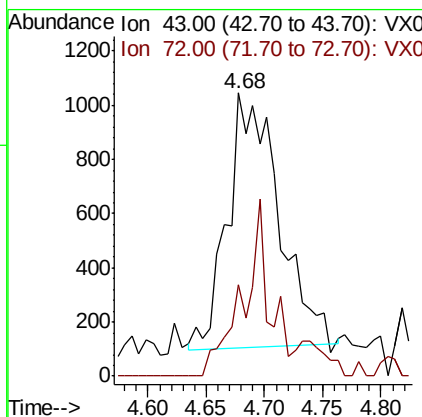
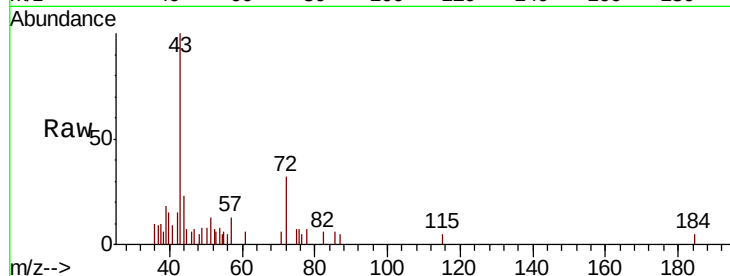




#25
2-Butanone
Concen: 1.659 ug/l
RT: 4.68 min Scan# 578
Delta R.T. 0.01 min
Lab File: VX010566.D
Acq: 29 Jun 2019 04:15

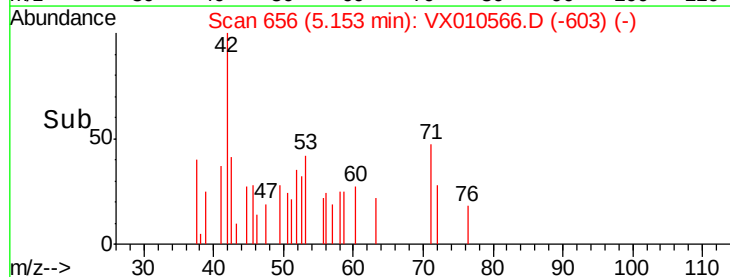
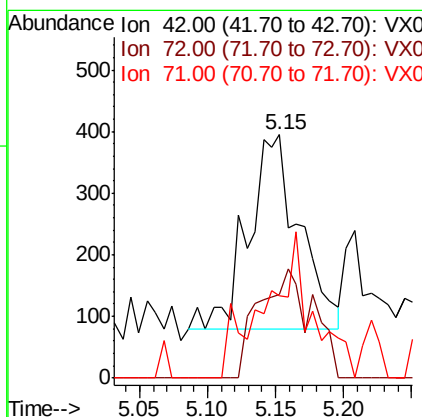
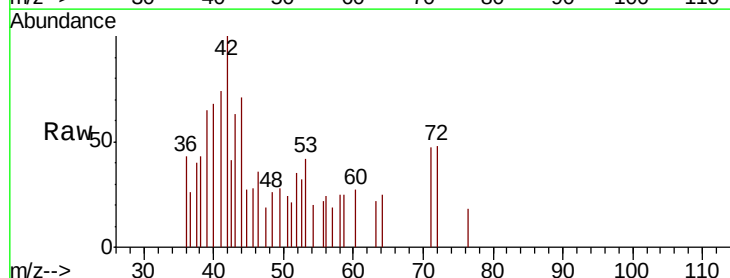
Instrument :
MSVOA_X
ClientSampleId :
SAMPLE-9

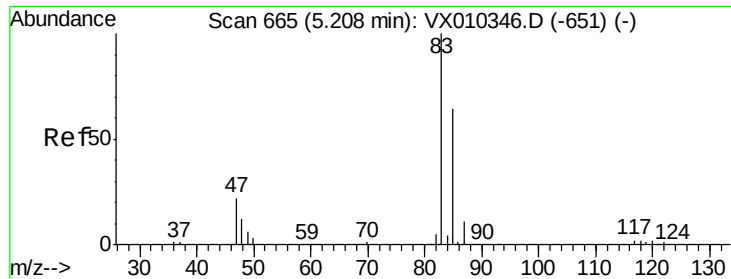
Tot Ion: 43 Resp: 2871
Ion Ratio Lower Upper
43 100
72 36.4 23.3 34.9#



#29
Tetrahydrofuran
Concen: 0.771 ug/l
RT: 5.15 min Scan# 656
Delta R.T. 0.02 min
Lab File: VX010566.D
Acq: 29 Jun 2019 04:15

Tgt Ion: 42 Resp: 826
Ion Ratio Lower Upper
42 100
72 58.5 40.6 60.8
71 57.7 37.8 56.8#

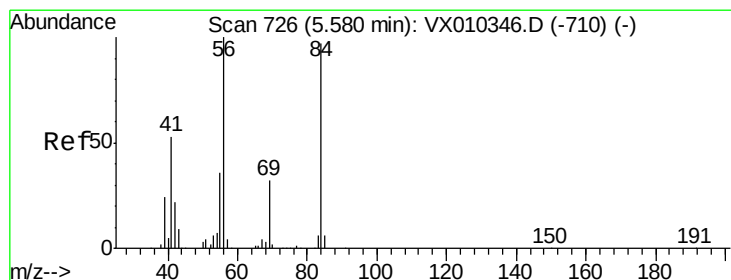
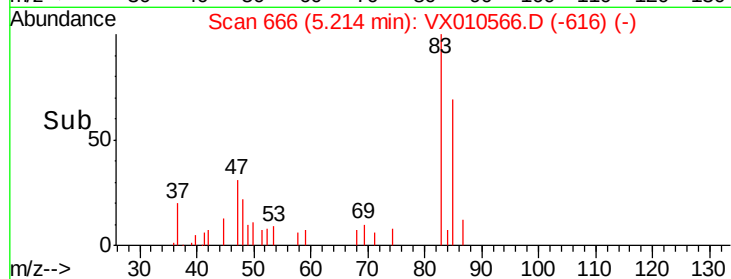
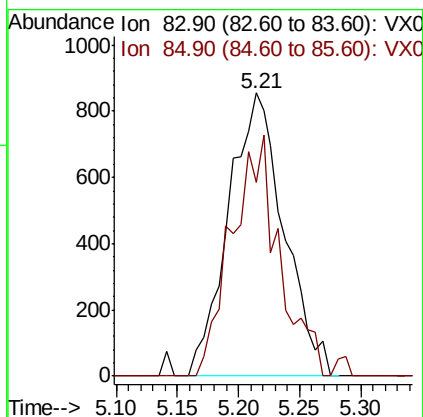
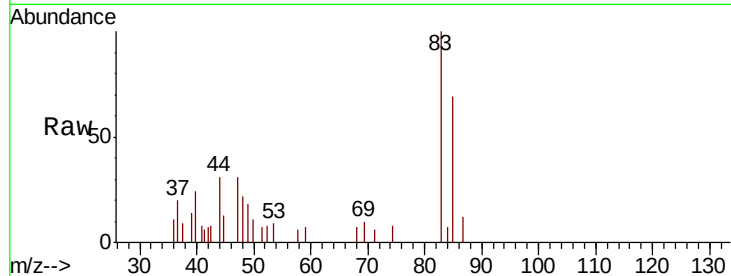




#30
Chloroform
Concen: 0.672 ug/l
RT: 5.21 min Scan# 666
Delta R.T. 0.01 min
Lab File: VX010566.D
Acq: 29 Jun 2019 04:15

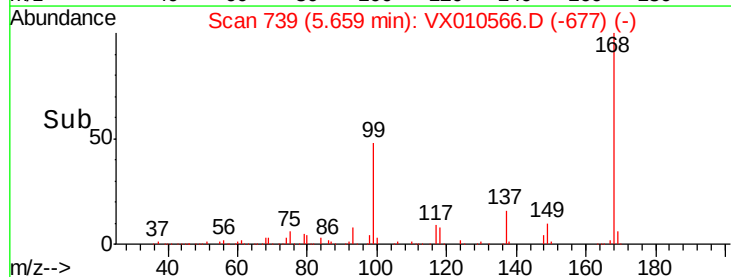
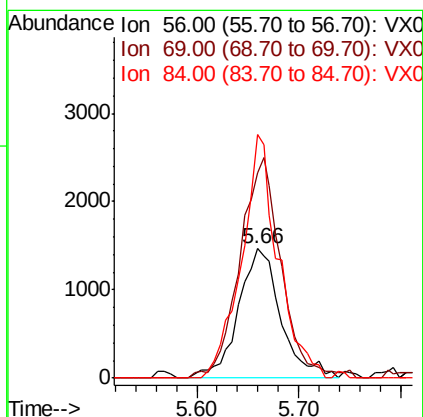
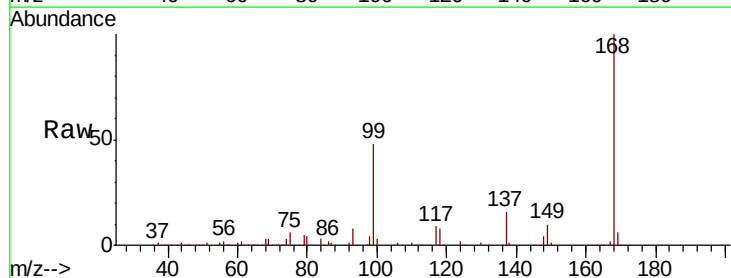
Instrument :
MSVOA_X
ClientSampled :
SAMPLE-9

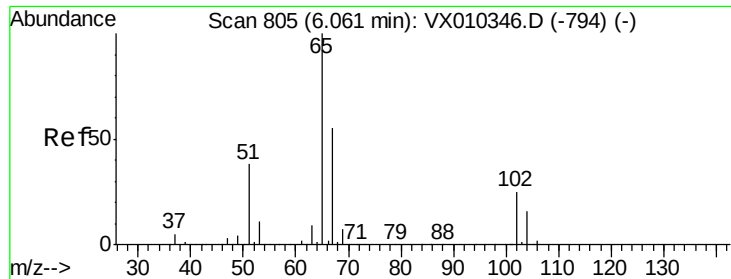
Tot Ion: 83 Resp: 2700
Ion Ratio Lower Upper
83 100
85 68.5 50.9 76.3



#31
Cyclohexane
Concen: 1.246 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.08 min
Lab File: VX010566.D
Acq: 29 Jun 2019 04:15

Tgt Ion: 56 Resp: 4237
Ion Ratio Lower Upper
56 100
69 159.3 25.9 38.9#
84 188.6 78.0 117.0#

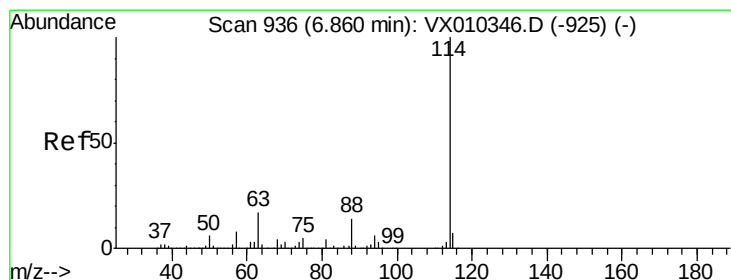
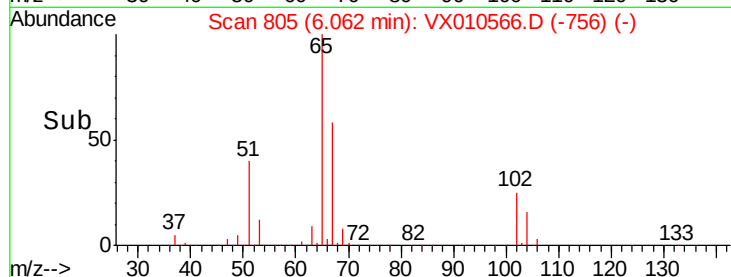
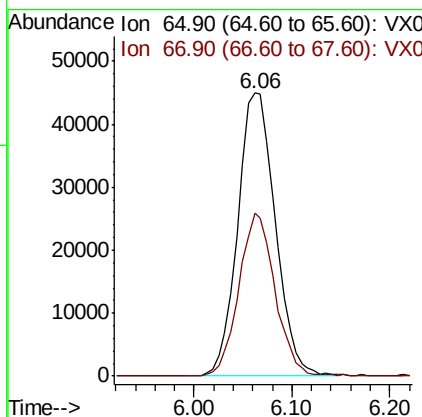
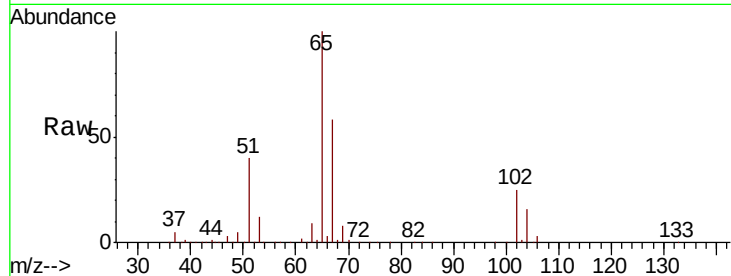




#33
 1,2-Dichloroethane-d4
 Concen: 51.009 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. 0.00 min
 Lab File: VX010566.D
 Acq: 29 Jun 2019 04:15

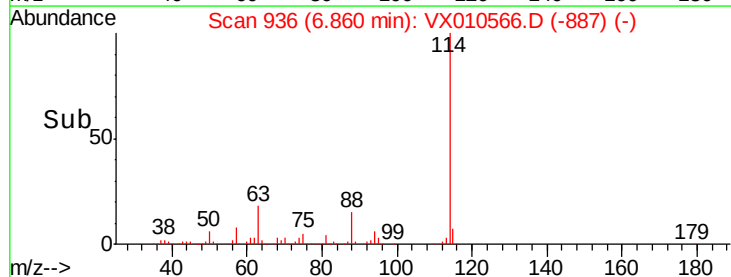
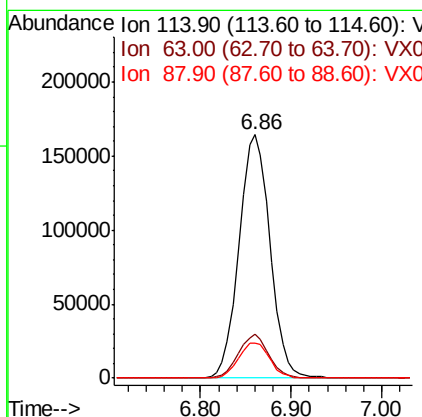
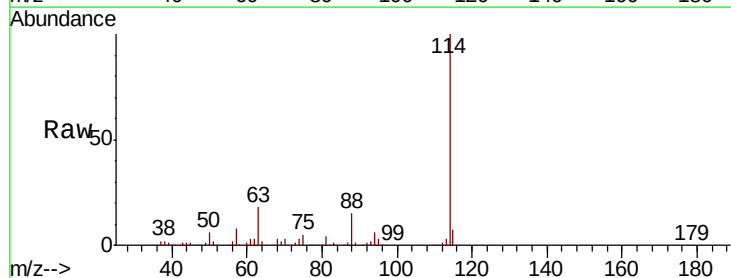
Instrument :
 MSVOA_X
 ClientSampleId :
 SAMPLE-9

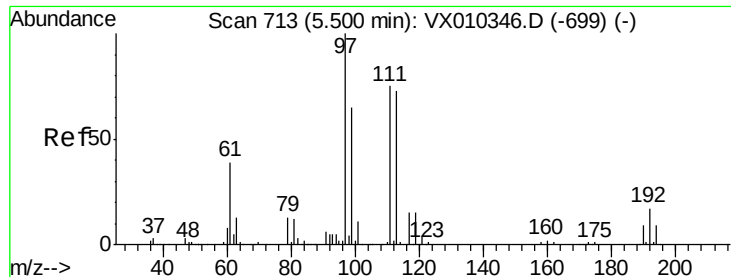
Tot Ion: 65 Resp: 120051
 Ion Ratio Lower Upper
 65 100
 67 55.4 0.0 110.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX010566.D
 Acq: 29 Jun 2019 04:15

Tgt Ion: 114 Resp: 388589
 Ion Ratio Lower Upper
 114 100
 63 17.8 0.0 33.8
 88 14.6 0.0 27.6





#35

Dibromofluoromethane

Concen: 49.111 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX010566.D

Acq: 29 Jun 2019 04:15

Instrument :

MSVOA_X

ClientSampled :

SAMPLE-9

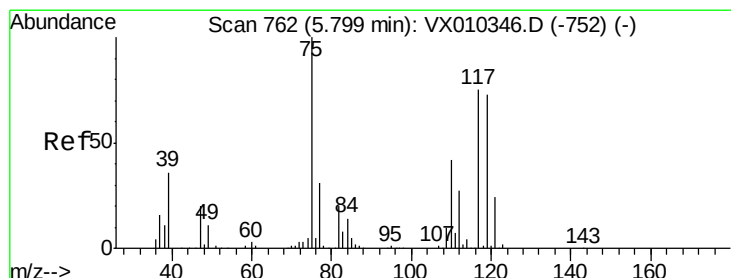
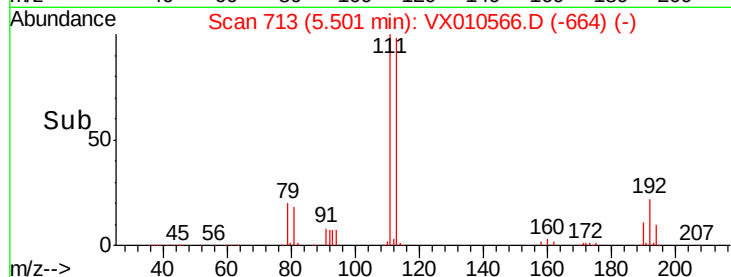
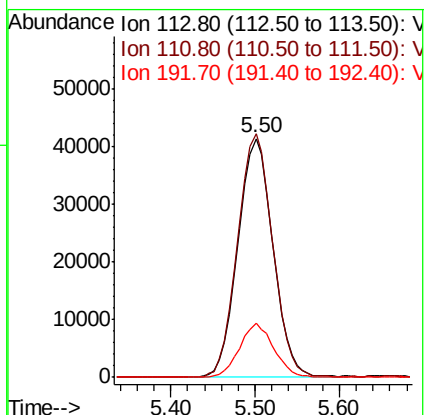
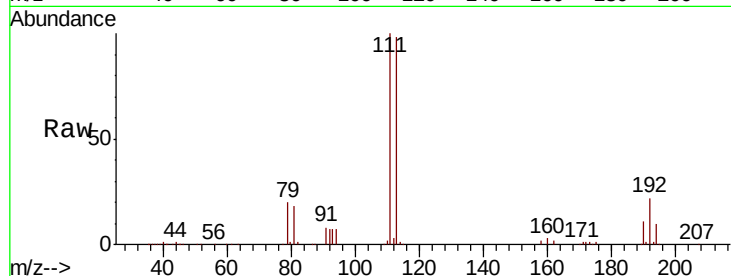
Tot Ion:113 Resp: 116763

Ion Ratio Lower Upper

113 100

111 102.2 81.2 121.8

192 22.3 18.6 27.8



#36

1,1-Dichloropropene

Concen: 5.133 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX010566.D

Acq: 29 Jun 2019 04:15

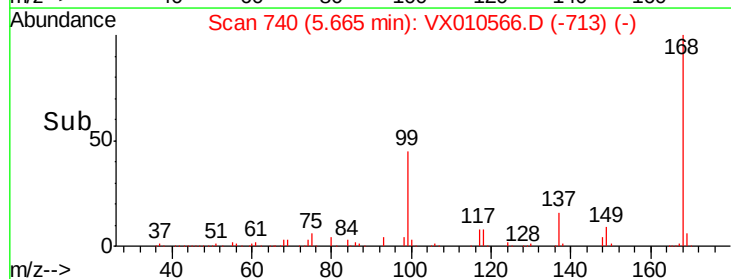
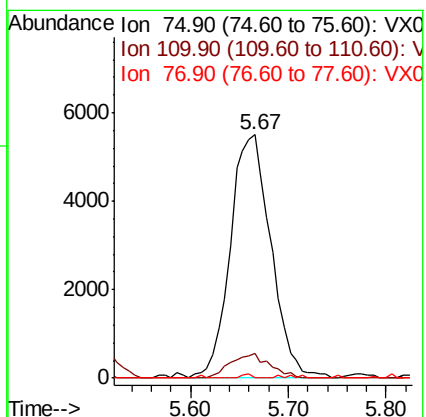
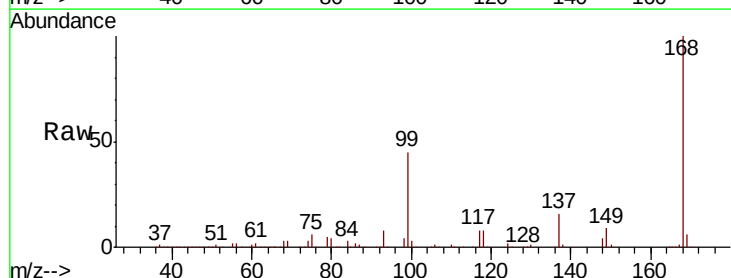
Tgt Ion: 75 Resp: 15850

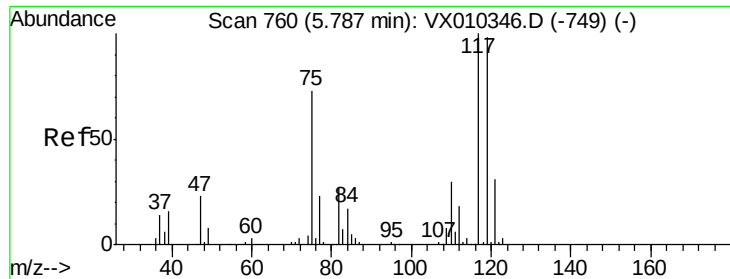
Ion Ratio Lower Upper

75 100

110 9.8 20.8 62.2#

77 0.3 25.4 38.0#

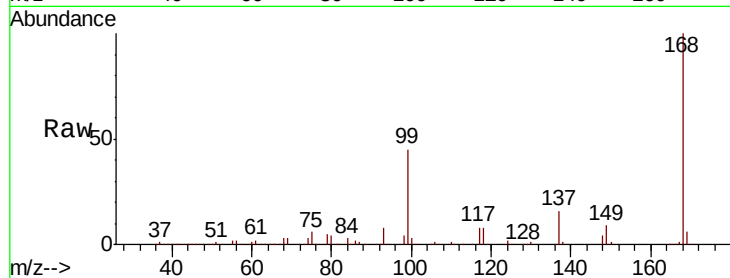




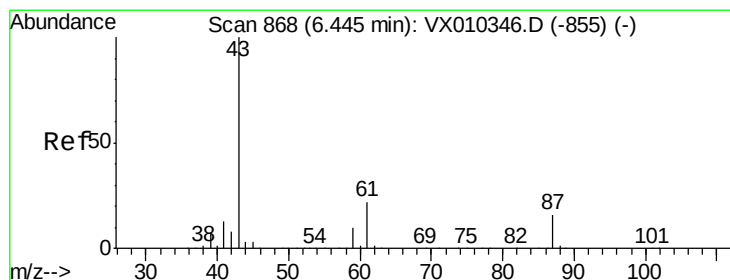
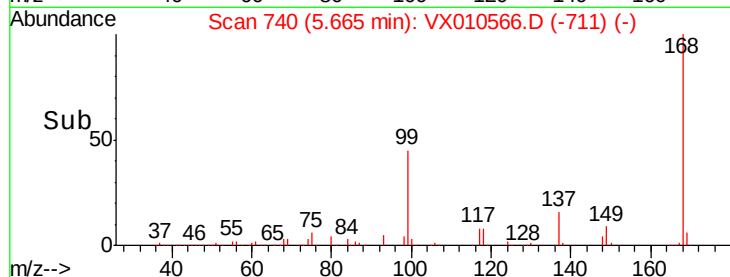
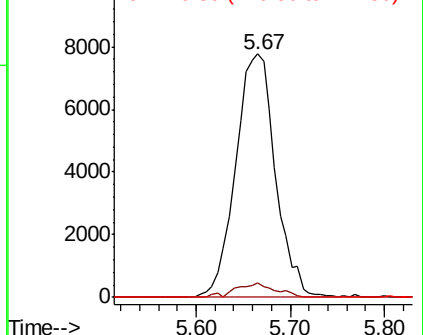
#38
Carbon Tetrachloride
Concen: 6.852 ug/l
RT: 5.67 min Scan# 740
Delta R.T. -0.12 min
Lab File: VX010566.D
Acq: 29 Jun 2019 04:15

Instrument :
MSVOA_X
ClientSampled :
SAMPLE-9

Tot Ion:117 Resp: 22912
Ion Ratio Lower Upper
117 100
119 5.7 78.2 117.4#
121 0.0 24.7 37.1#

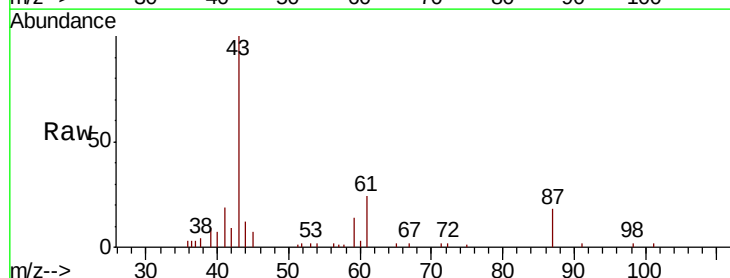


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

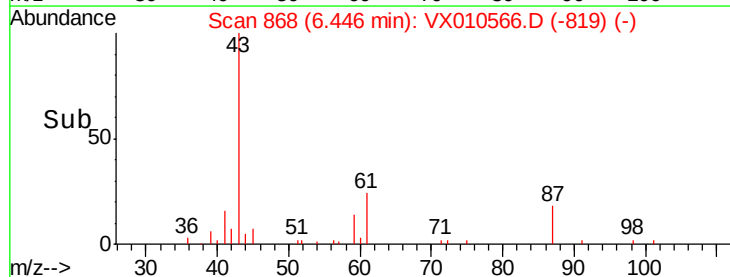
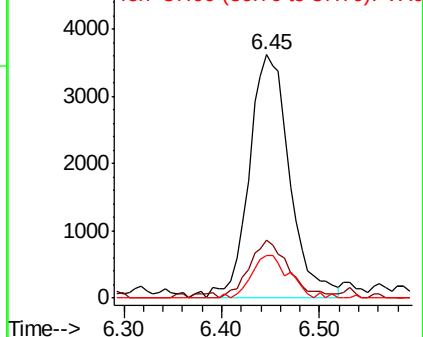


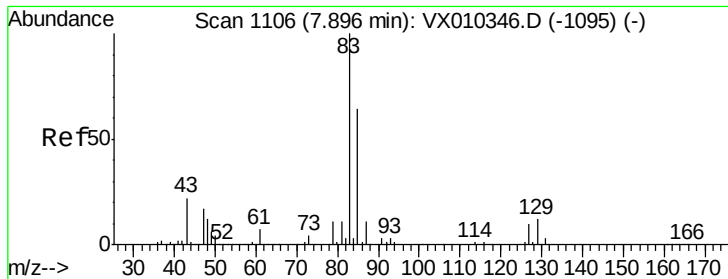
#43
Isopropyl Acetate
Concen: 1.988 ug/l
RT: 6.45 min Scan# 868
Delta R.T. 0.00 min
Lab File: VX010566.D
Acq: 29 Jun 2019 04:15

Tgt Ion: 43 Resp: 10451
Ion Ratio Lower Upper
43 100
61 23.5 17.8 26.6
87 16.1 13.0 19.4



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





#47

Bromodichloromethane

Concen: 0.205 ug/l

RT: 7.89 min Scan# 1105

Delta R.T. -0.01 min

Lab File: VX010566.D

Acq: 29 Jun 2019 04:15

Instrument :

MSVOA_X

ClientSampleId :

SAMPLE-9

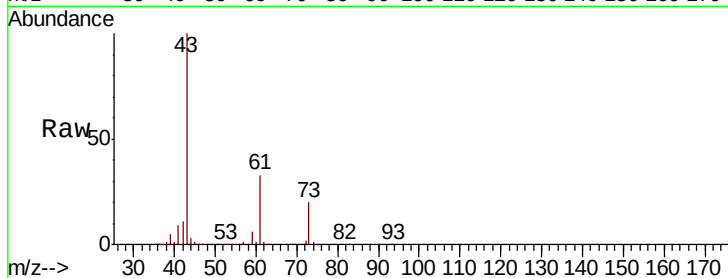
Tot Ion: 83 Resp: 656

Ion Ratio Lower Upper

83 100

85 52.2 51.5 77.3

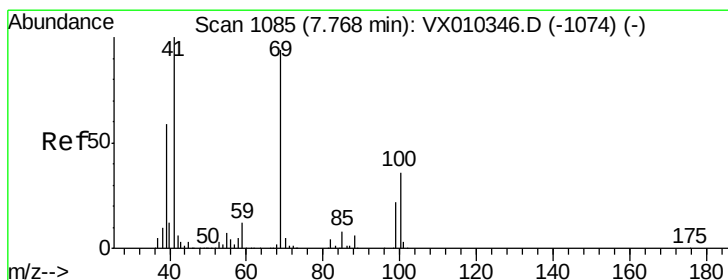
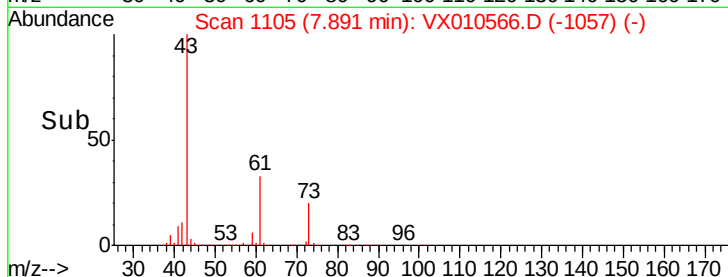
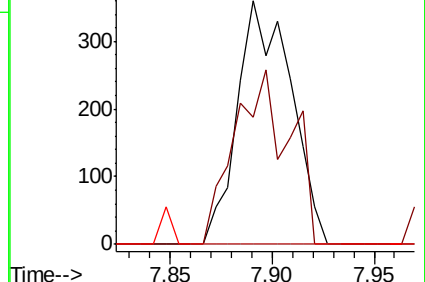
127 0.0 7.8 11.8#



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

Ion 126.80 (126.50 to 127.50): V



#48

Methyl methacrylate

Concen: 2.513 ug/l

RT: 7.68 min Scan# 1070

Delta R.T. -0.09 min

Lab File: VX010566.D

Acq: 29 Jun 2019 04:15

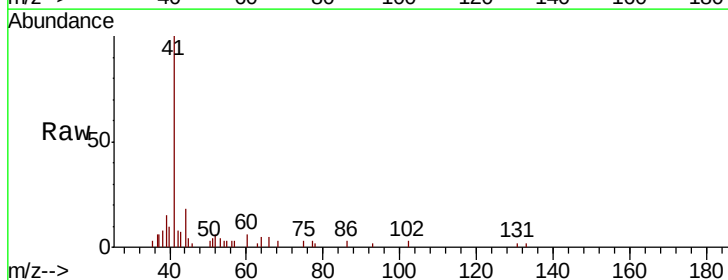
Tgt Ion: 41 Resp: 6140

Ion Ratio Lower Upper

41 100

69 1.0 76.1 114.1#

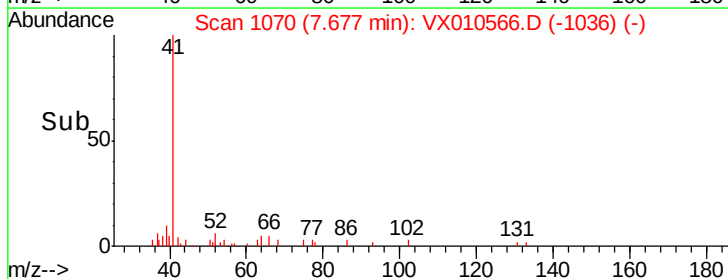
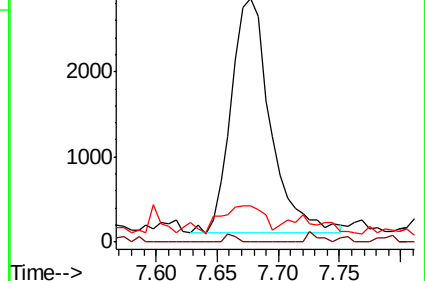
39 0.0 47.6 71.4#

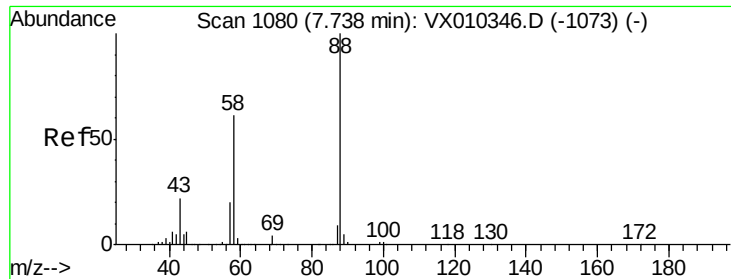


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

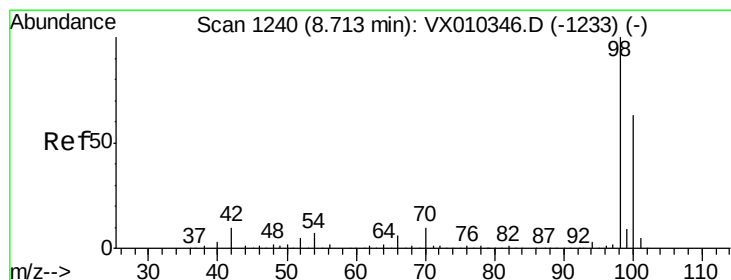
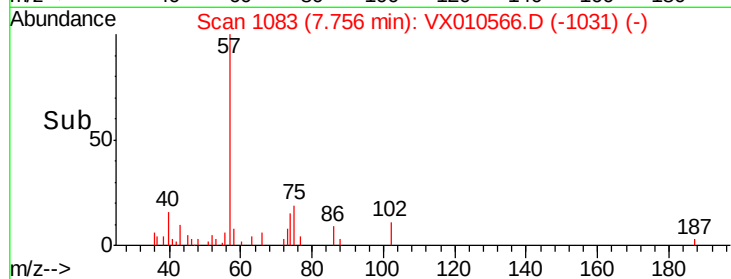
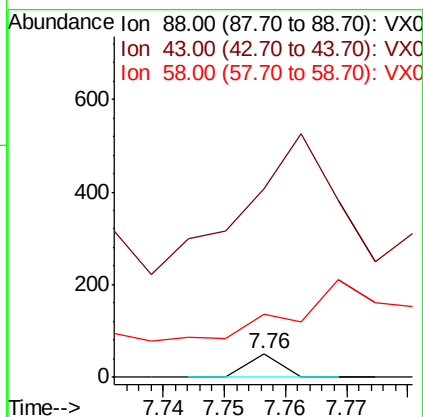
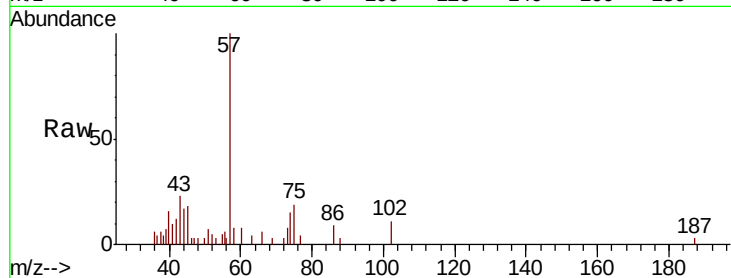




#49
1,4-Dioxane
Concen: 0.270 ug/l
RT: 7.76 min Scan# 1083
Delta R.T. 0.02 min
Lab File: VX010566.D
Acq: 29 Jun 2019 04:15

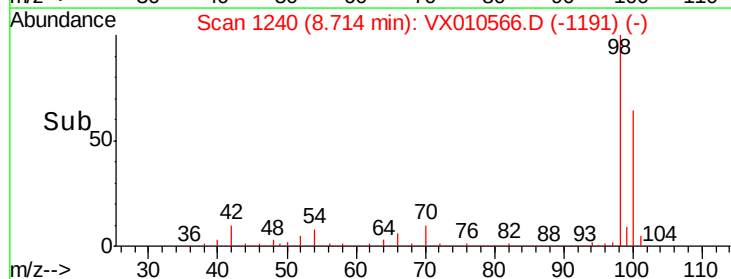
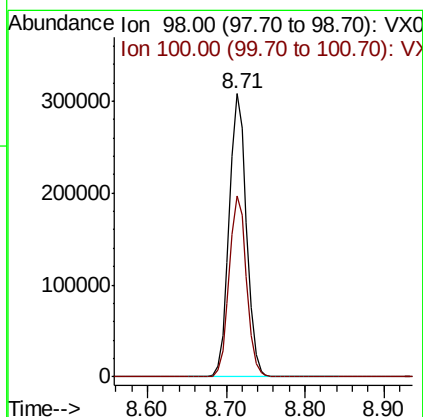
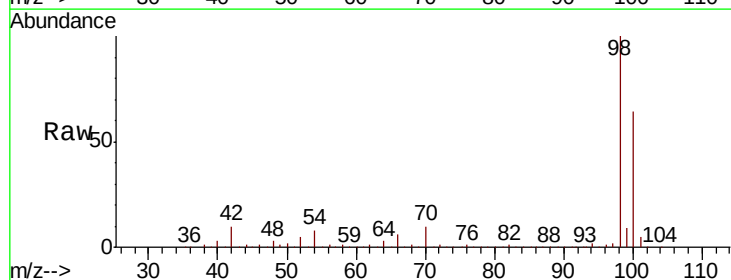
Instrument :
MSVOA_X
ClientSampleId :
SAMPLE-9

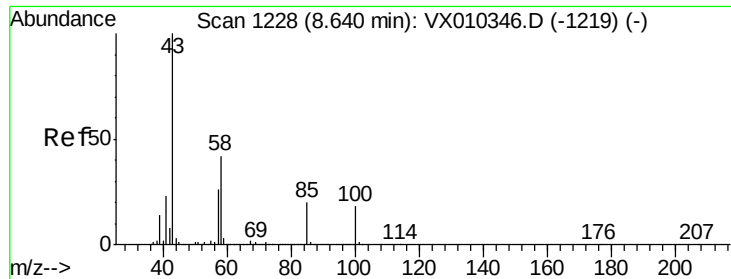
Tot Ion: 88 Resp: 19
Ion Ratio Lower Upper
88 100
43 0.0 20.2 30.2#
58 2047.4 49.5 74.3#



#50
Toluene-d8
Concen: 51.685 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX010566.D
Acq: 29 Jun 2019 04:15

Tgt Ion: 98 Resp: 470128
Ion Ratio Lower Upper
98 100
100 64.1 51.6 77.4

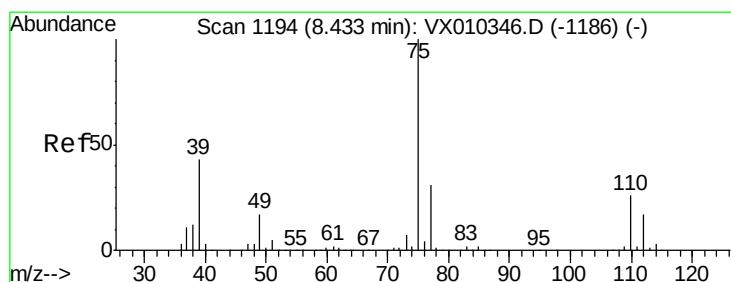
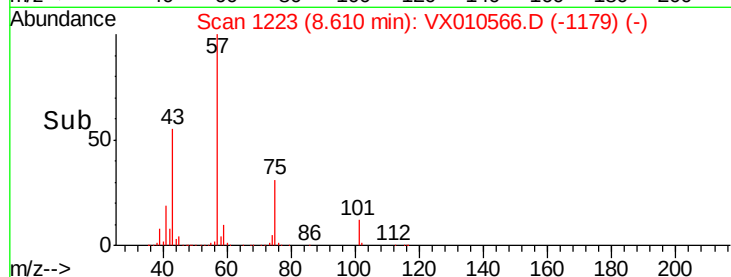
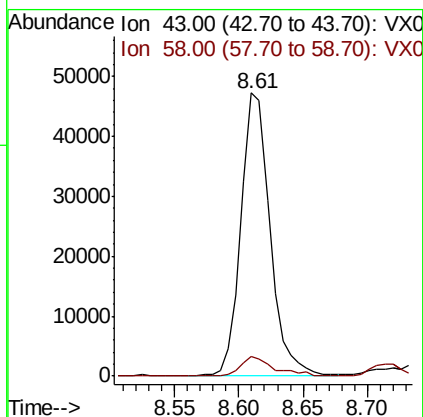
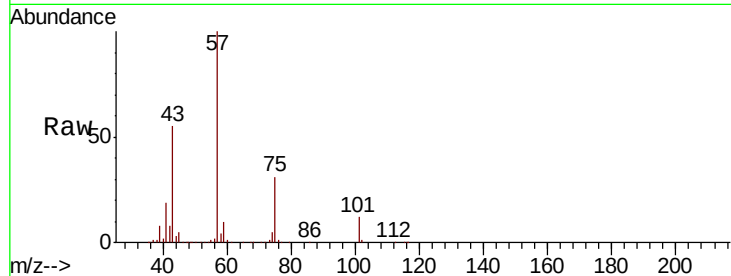




#51
 4-Methyl-2-Pentanone
 Concen: 21.861 ug/l
 RT: 8.61 min Scan# 1223
 Delta R.T. -0.03 min
 Lab File: VX010566.D
 Acq: 29 Jun 2019 04:15

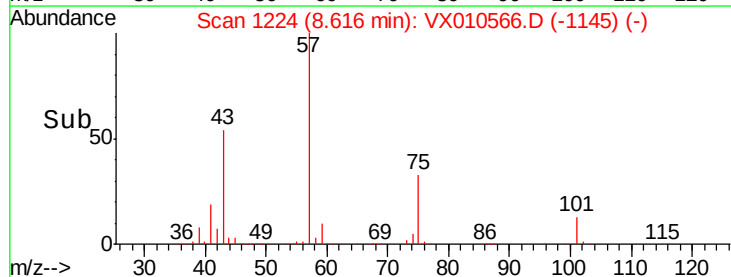
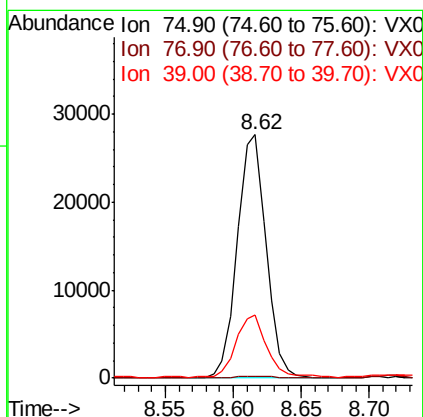
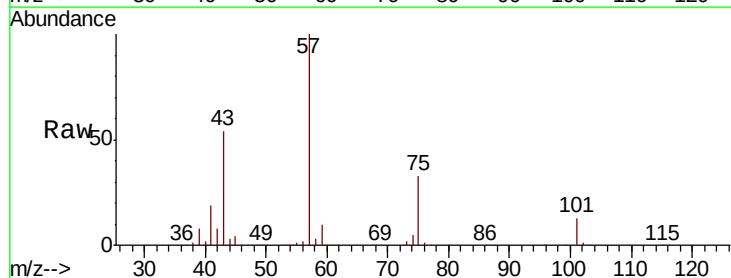
Instrument :
 MSVOA_X
 ClientSampled :
 SAMPLE-9

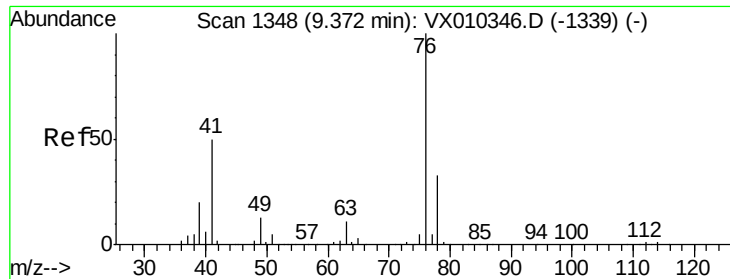
Tot Ion: 43 Resp: 73484
 Ion Ratio Lower Upper
 43 100
 58 8.2 33.5 50.3#



#54
 cis-1,3-Dichloropropene
 Concen: 10.532 ug/l
 RT: 8.62 min Scan# 1224
 Delta R.T. 0.18 min
 Lab File: VX010566.D
 Acq: 29 Jun 2019 04:15

Tgt Ion: 75 Resp: 40990
 Ion Ratio Lower Upper
 75 100
 77 0.8 25.2 37.8#
 39 25.6 34.5 51.7#

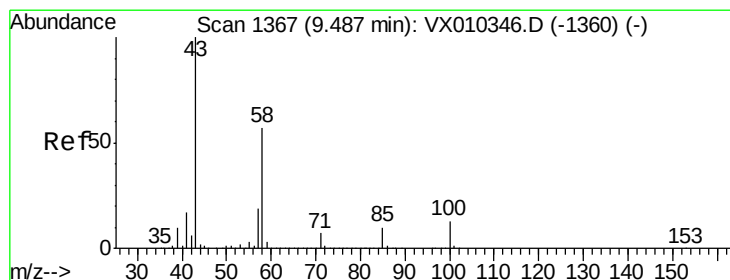
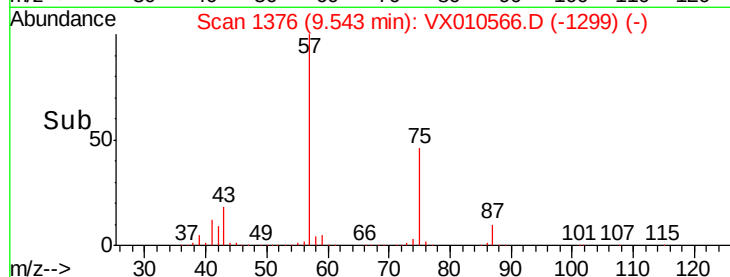
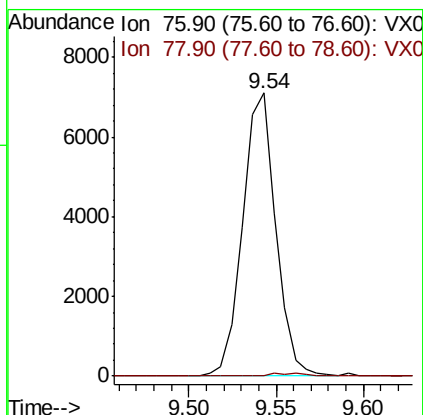
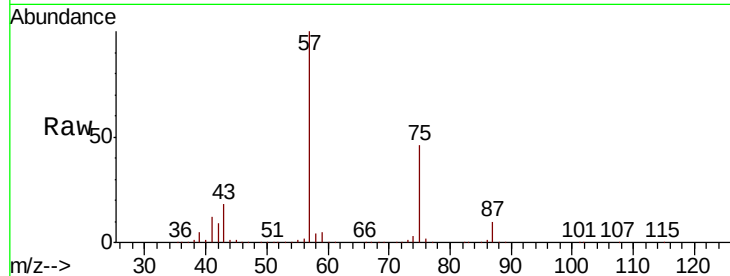




#57
 1,3-Dichloropropane
 Concen: 2.301 ug/l
 RT: 9.54 min Scan# 1376
 Delta R.T. 0.17 min
 Lab File: VX010566.D
 Acq: 29 Jun 2019 04:15

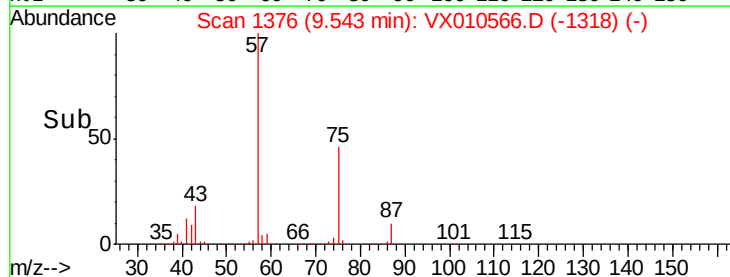
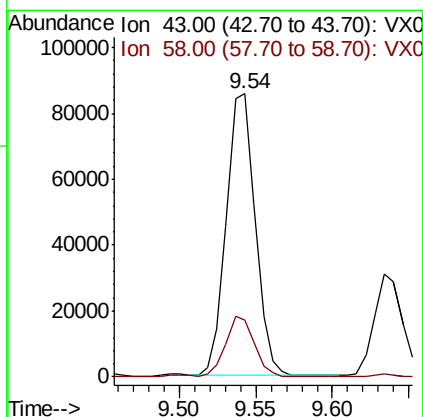
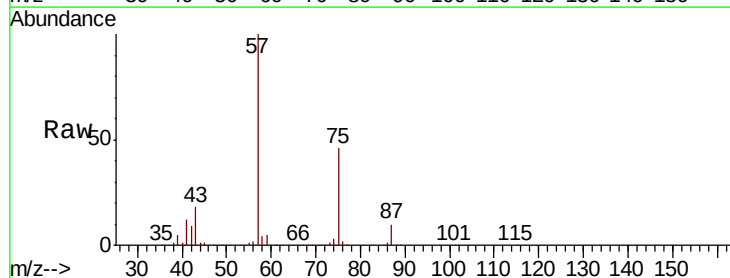
Instrument :
 MSVOA_X
 ClientSampleId :
 SAMPLE-9

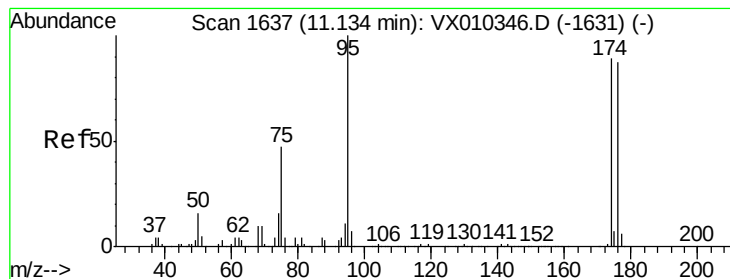
Tot Ion: 76 Resp: 9333
 Ion Ratio Lower Upper
 76 100
 78 1.0 26.1 39.1#



#59
 2-Hexanone
 Concen: 42.679 ug/l
 RT: 9.54 min Scan# 1376
 Delta R.T. 0.06 min
 Lab File: VX010566.D
 Acq: 29 Jun 2019 04:15

Tgt Ion: 43 Resp: 112912
 Ion Ratio Lower Upper
 43 100
 58 22.0 29.0 87.1#





#62

4-Bromofluorobenzene

Concen: 46.818 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX010566.D

Acq: 29 Jun 2019 04:15

Instrument :

MSVOA_X

ClientSampleId :

SAMPLE-9

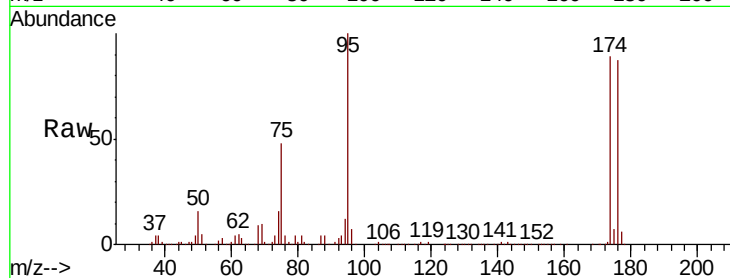
Tot Ion: 95 Resp: 153746

Ion Ratio Lower Upper

95 100

174 94.9 0.0 187.6

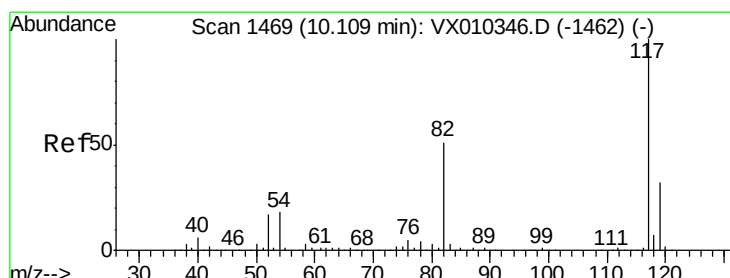
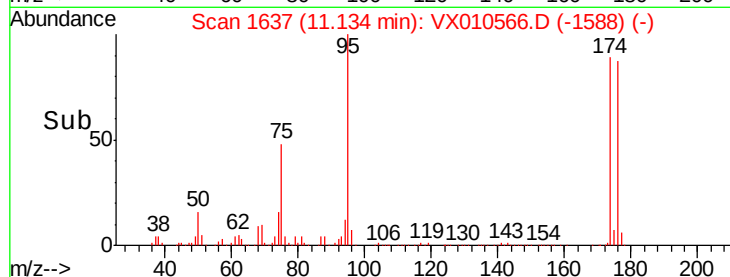
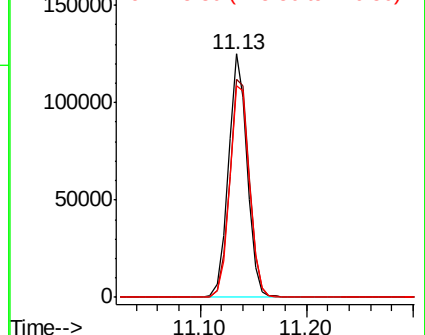
176 92.5 0.0 184.0



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): VX0

Ion 175.80 (175.50 to 176.50): VX0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX010566.D

Acq: 29 Jun 2019 04:15

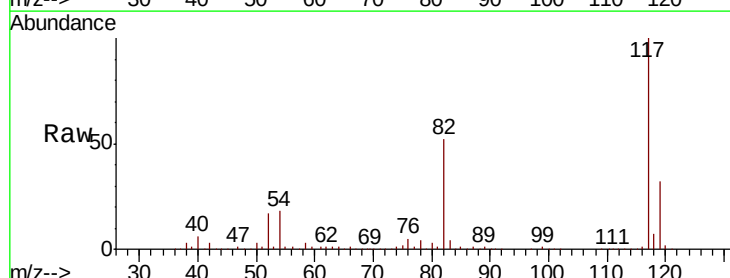
Tgt Ion: 117 Resp: 359772

Ion Ratio Lower Upper

117 100

82 51.5 41.2 61.8

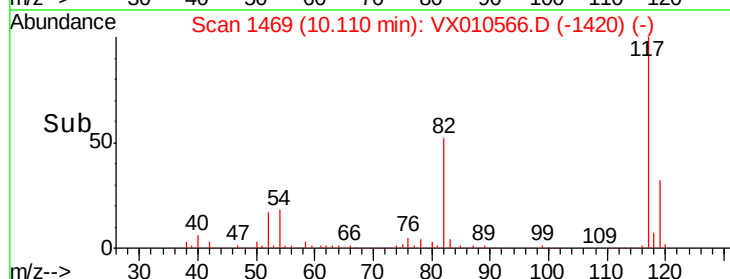
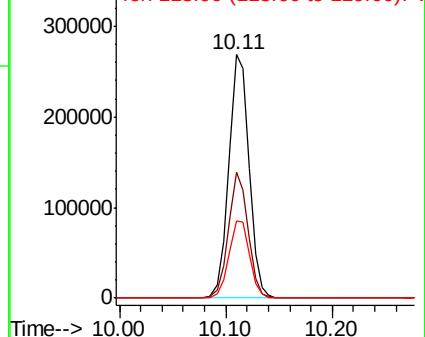
119 31.6 25.5 38.3

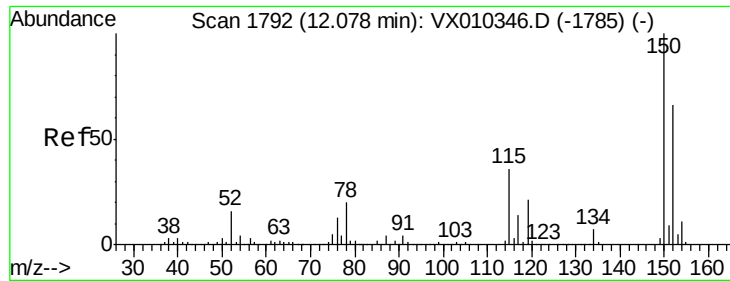


Abundance Ion 116.90 (116.60 to 117.60): V

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: VX010566.D

Acq: 29 Jun 2019 04:15

Instrument :

MSVOA_X

ClientSampled :

SAMPLE-9

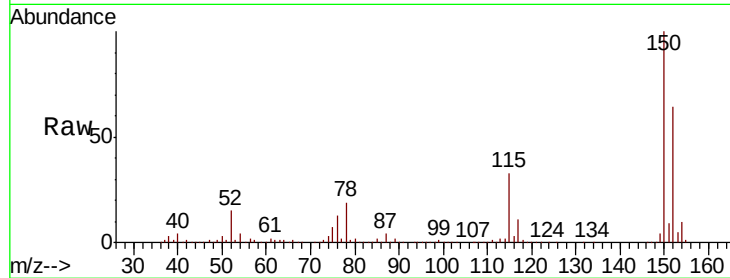
Tot Ion:152 Resp: 161392

Ion Ratio Lower Upper

152 100

115 54.5 38.6 115.7

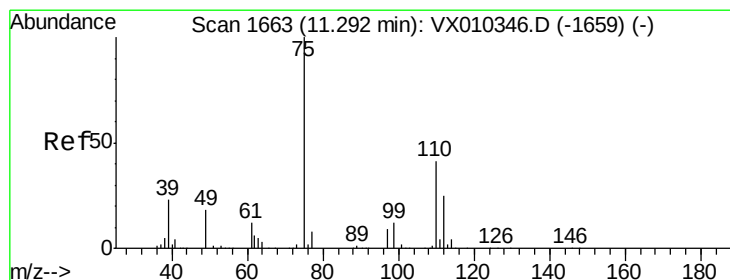
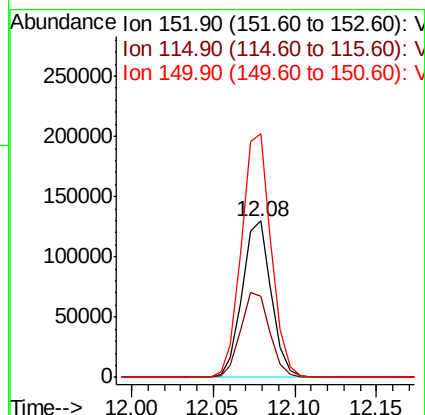
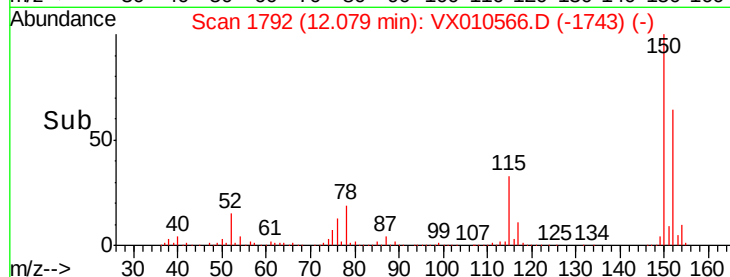
150 159.2 0.0 347.4



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: 25.332 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX010566.D

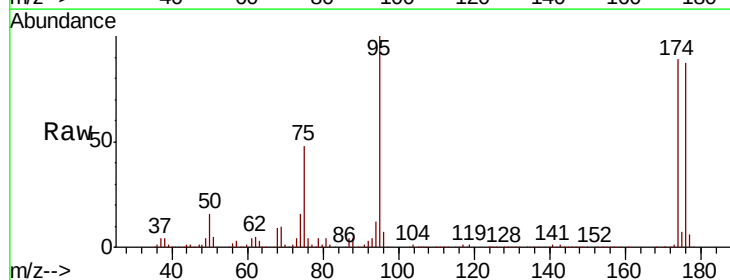
Acq: 29 Jun 2019 04:15

Tgt Ion: 75 Resp: 74501

Ion Ratio Lower Upper

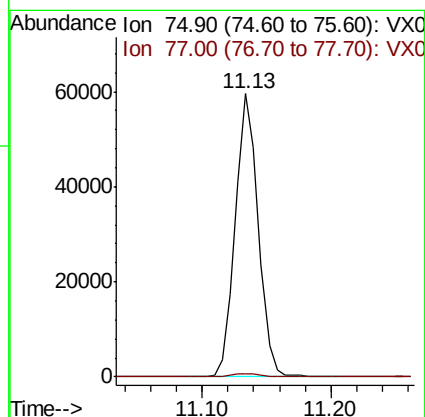
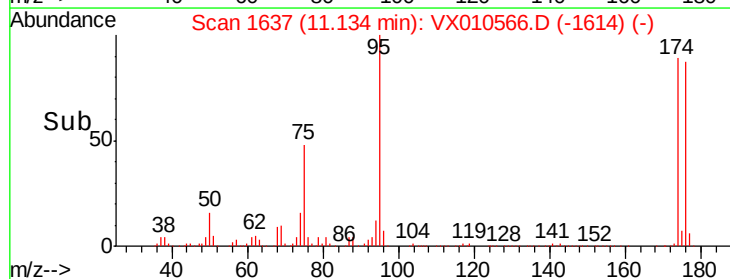
75 100

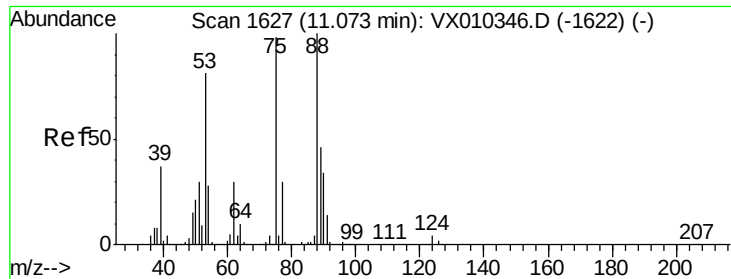
77 1.4 22.6 67.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81
 trans-1,4-Dichloro-2-butene
 Concen: 59.097 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX010566.D
 Acq: 29 Jun 2019 04:15

Instrument :
 MSVOA_X
 ClientSampleId :
 SAMPLE-9

Tot Ion: 75 Resp: 74501
 Ion Ratio Lower Upper
 75 100
 53 0.0 66.1 99.1#
 89 0.0 37.8 56.6#

