

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091918\
 Data File : VX004709.D
 Acq On : 19 Sep 2018 16:46
 Operator : JC/MD
 Sample : J4973-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Sep 20 03:49:38 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X091118W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 12 02:17:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	208220	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	331161	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	302587	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	167434	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	126739	47.21	ug/l	0.00
Spiked Amount			Recovery	=	94.42%	
35) Dibromofluoromethane	5.50	113	119525	39.44	ug/l	0.00
Spiked Amount			Recovery	=	78.88%	
50) Toluene-d8	8.72	98	443545	43.64	ug/l	0.00
Spiked Amount			Recovery	=	87.28%	
62) 4-Bromofluorobenzene	11.14	95	157291	43.36	ug/l	0.00
Spiked Amount			Recovery	=	86.72%	

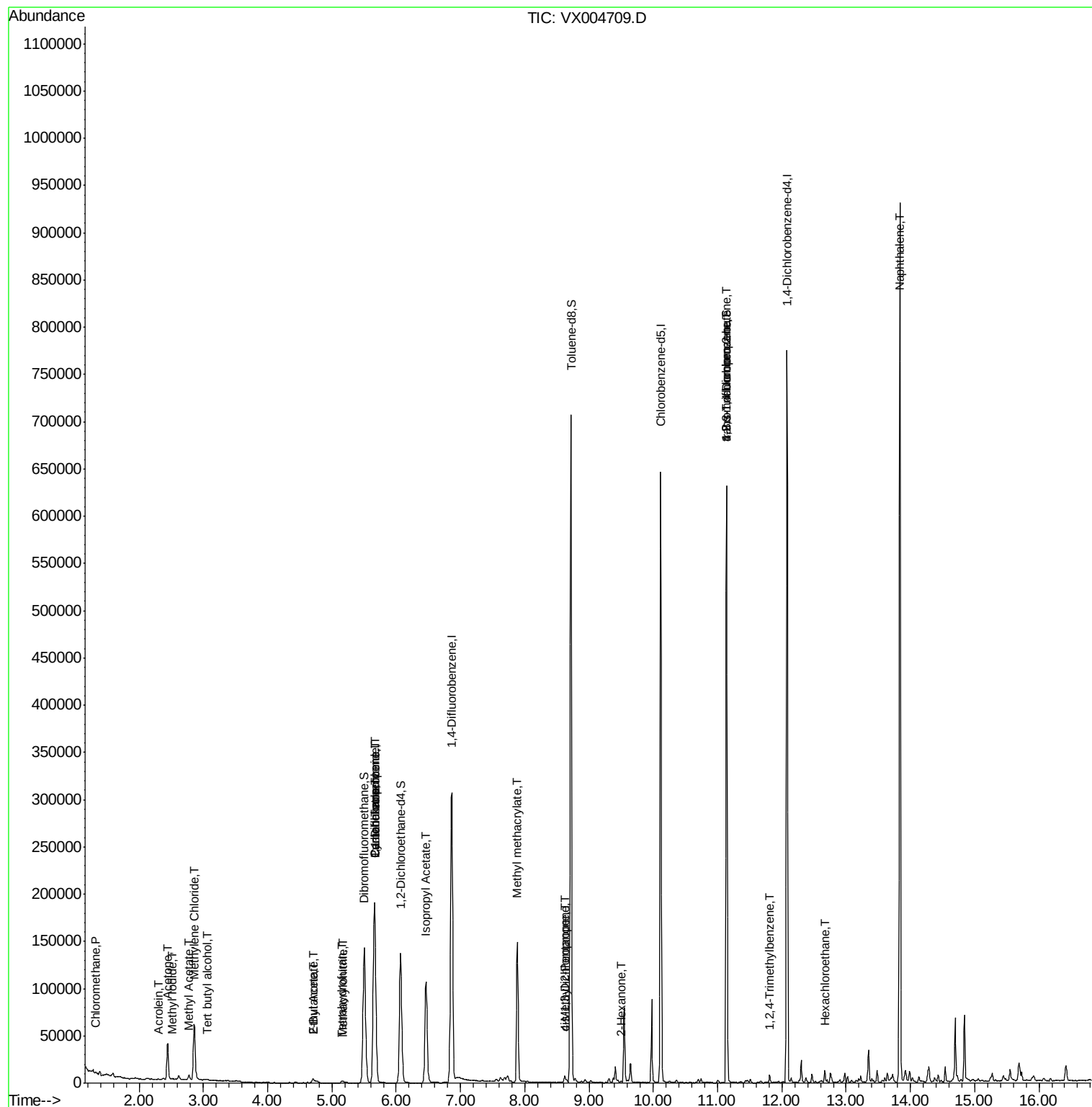
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	560	0.21	ug/l	91
5) Bromomethane	1.65	94	576	Below Cal	#	58
10) Methyl Iodide	2.52	142	364	4.38	ug/l	# 69
11) Tert butyl alcohol	3.07	59	2522	3.94	ug/l	98
13) Acrolein	2.30	56	60	0.24	ug/l	# 1
16) Acetone	2.45	43	40229	30.70	ug/l	100
18) Methyl Acetate	2.78	43	5282	1.44	ug/l	98
20) Methylene Chloride	2.86	84	29875	11.11	ug/l	96
25) 2-Butanone	4.71	43	7418	3.56	ug/l	93
29) Tetrahydrofuran	5.16	42	1540	1.22	ug/l	# 69
31) Cyclohexane	5.66	56	3012	0.78	ug/l	# 1
36) 1,1-Dichloropropene	5.66	75	12890	3.21	ug/l	# 49
37) Ethyl Acetate	4.71	43	7418	1.62	ug/l	# 67
38) Carbon Tetrachloride	5.66	117	17529	4.46	ug/l	# 14
41) Methacrylonitrile	5.17	41	974	0.39	ug/l	# 42
43) Isopropyl Acetate	6.46	43	137949	22.71	ug/l	100
48) Methyl methacrylate	7.88	41	12916	4.30	ug/l	# 39
51) 4-Methyl-2-Pentanone	8.62	43	1957	0.46	ug/l	# 34
54) cis-1,3-Dichloropropene	8.62	75	1012	0.25	ug/l	# 67
59) 2-Hexanone	9.50	43	768	0.23	ug/l	68
76) 1,2,3-Trichloropropane	11.14	75	73782	21.90	ug/l	# 37
81) trans-1,4-Dichloro-2-buten	11.14	75	73782	69.81	ug/l	# 10
84) 1,2,4-Trimethylbenzene	11.81	105	3135	0.33	ug/l	99
90) Hexachloroethane	12.67	117	681	0.43	ug/l	# 3
95) Naphthalene	13.83	128	566086	49.52	ug/l	100

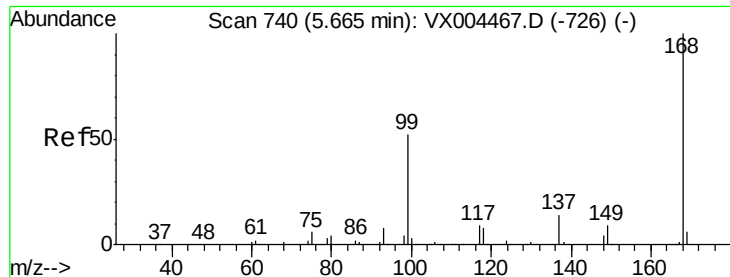
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :

Quant Time: Sep 20 03:49:38 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X091118W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 12 02:17:23 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.66 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX004709.D

Acq: 19 Sep 2018 16:46

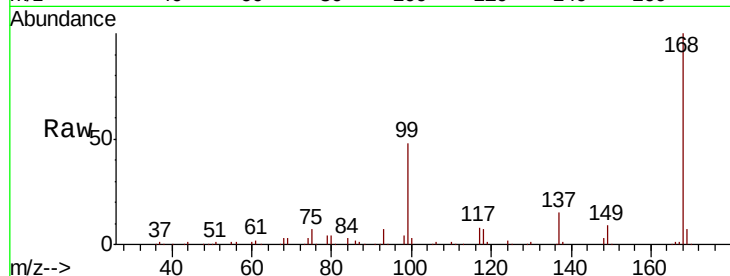
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 208220

Ion Ratio Lower Upper

168 100

99 47.6 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

80000

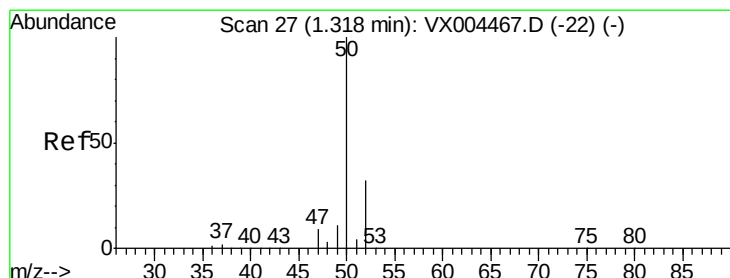
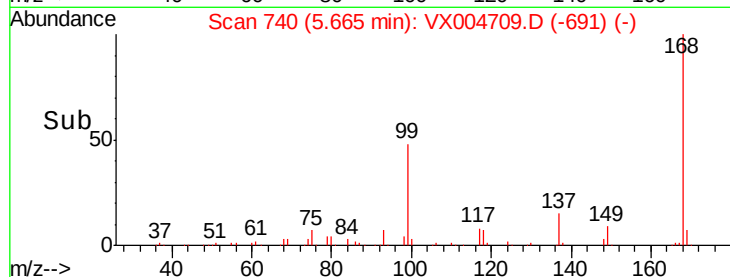
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.21 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.01 min

Lab File: VX004709.D

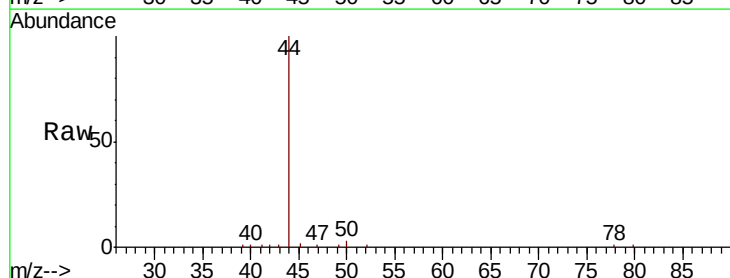
Acq: 19 Sep 2018 16:46

Tgt Ion: 50 Resp: 560

Ion Ratio Lower Upper

50 100

52 27.9 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

400

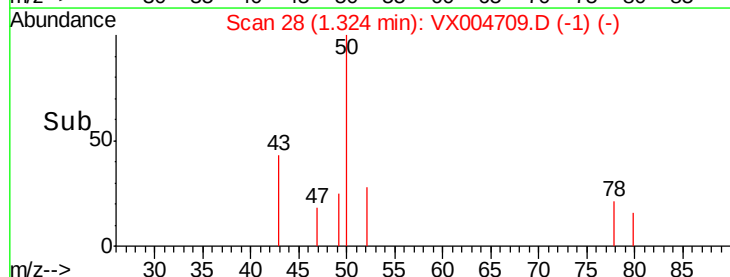
300

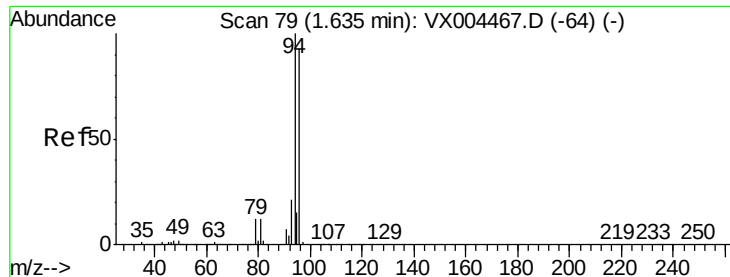
200

100

0

Time--> 1.30 1.35





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 82

Delta R.T. 0.02 min

Lab File: VX004709.D

Acq: 19 Sep 2018 16:46

Instrument :

MSVOA_X

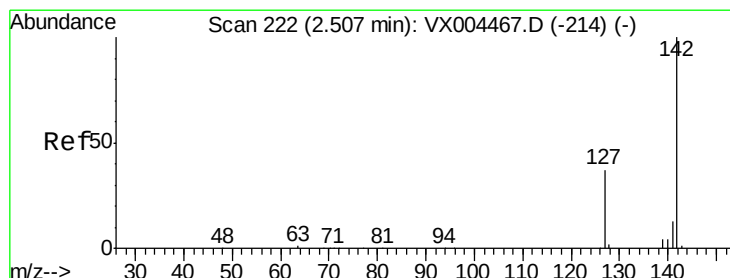
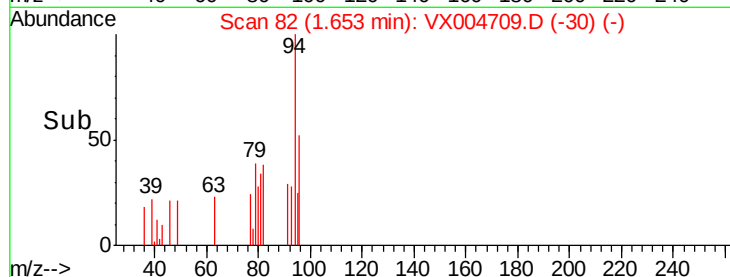
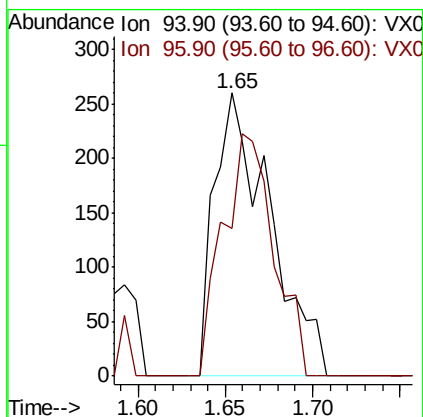
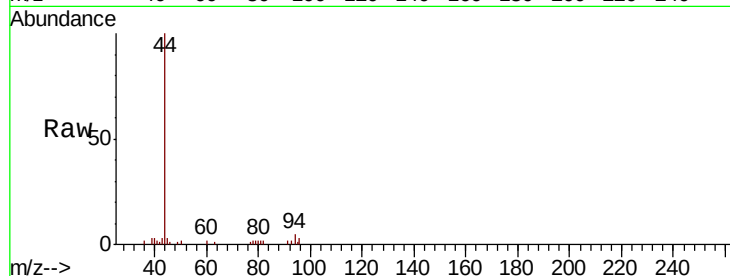
ClientSampled :

Tot Ion: 94 Resp: 576

Ion Ratio Lower Upper

94 100

96 52.3 74.5 111.7#



#10

Methyl Iodide

Concen: 4.38 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX004709.D

Acq: 19 Sep 2018 16:46

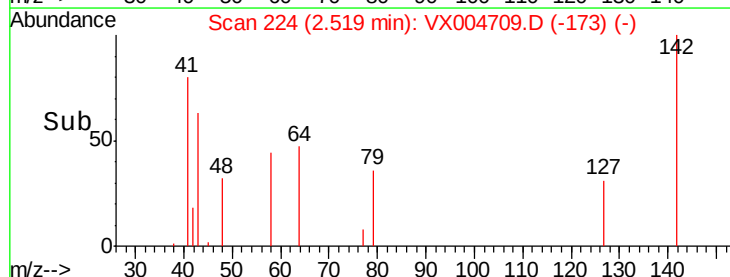
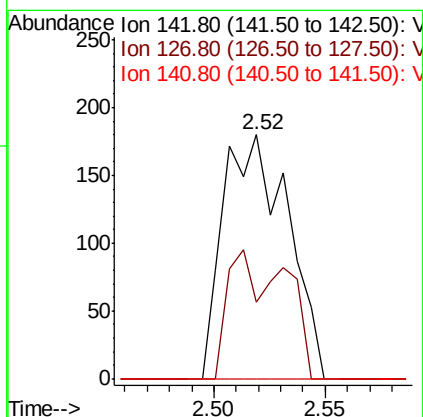
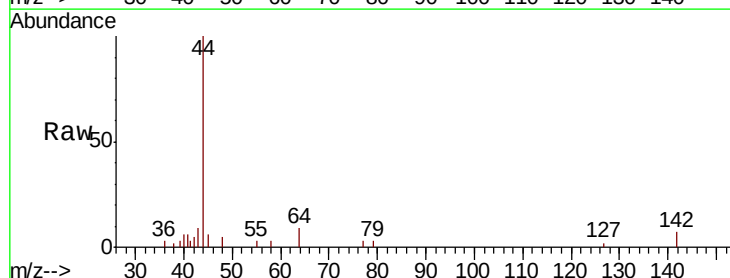
Tgt Ion: 142 Resp: 364

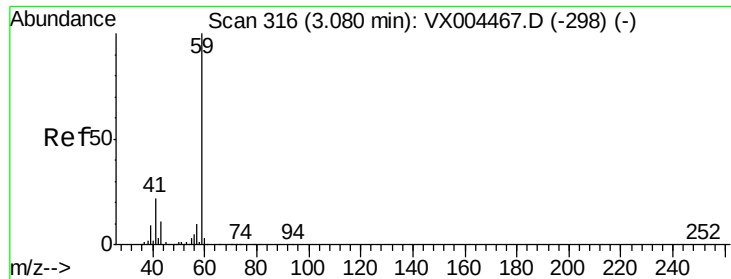
Ion Ratio Lower Upper

142 100

127 23.4 33.8 50.6#

141 0.0 11.4 17.0#



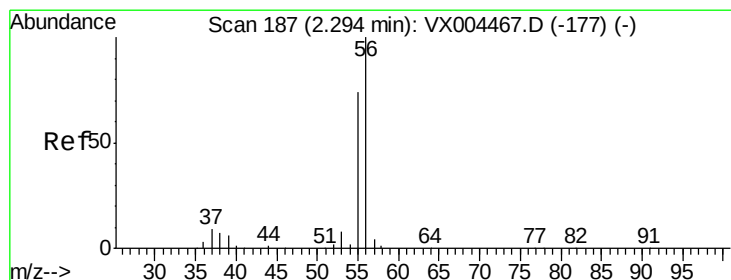
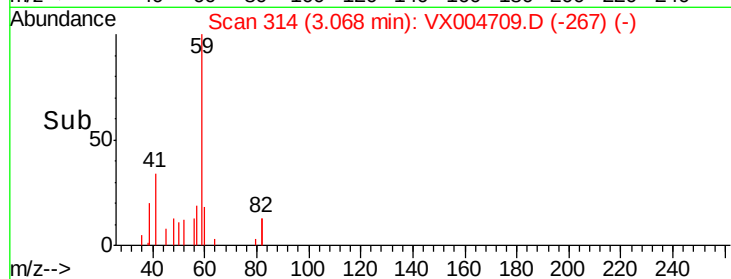
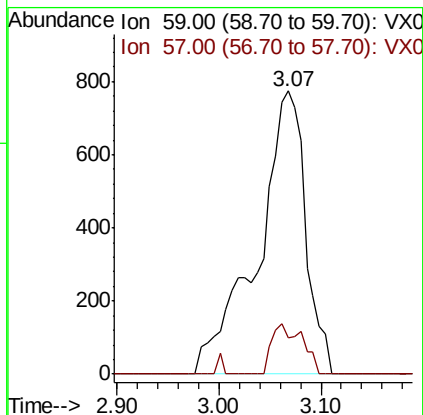
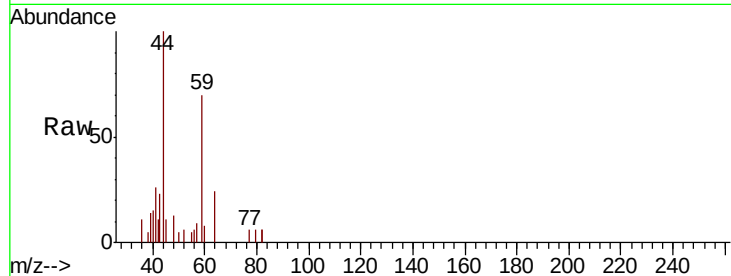


#11

Tert butyl alcohol
Concen: 3.94 ug/l
RT: 3.07 min Scan# 314
Delta R.T. -0.01 min
Lab File: VX004709.D
Acq: 19 Sep 2018 16:46

Instrument :
MSVOA_X
ClientSampled :

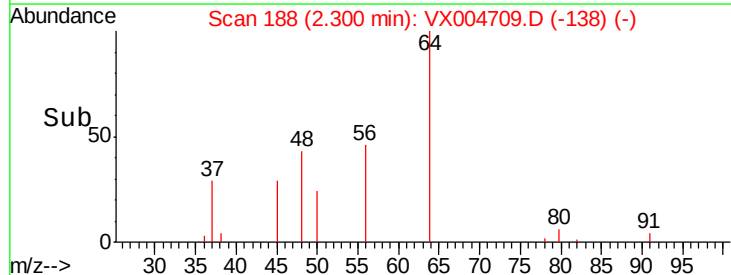
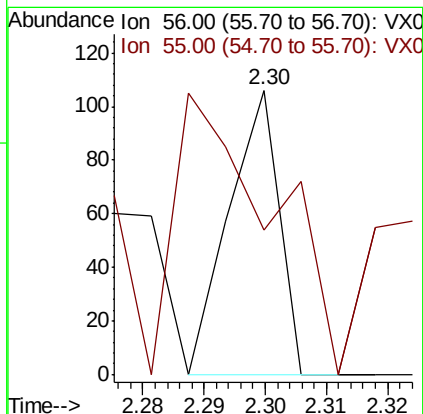
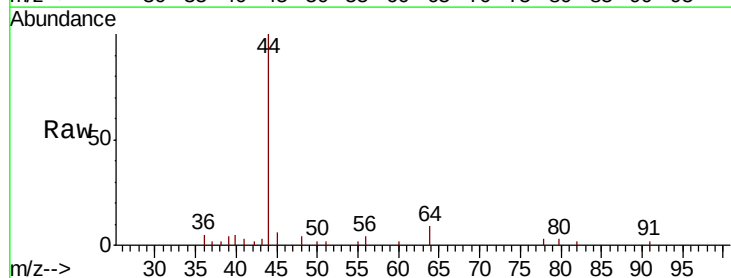
Tot Ion: 59 Resp: 2522
Ion Ratio Lower Upper
59 100
57 11.2 8.2 12.4

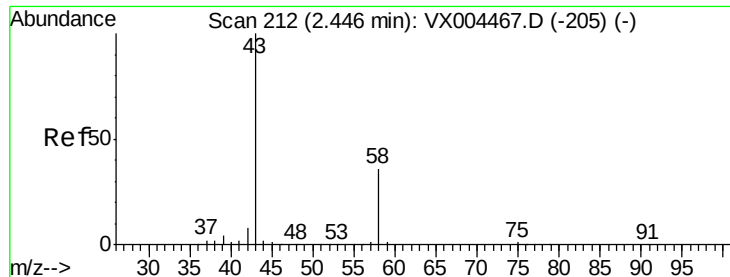


#13

Acrolein
Concen: 0.24 ug/l
RT: 2.30 min Scan# 188
Delta R.T. 0.01 min
Lab File: VX004709.D
Acq: 19 Sep 2018 16:46

Tgt Ion: 56 Resp: 60
Ion Ratio Lower Upper
56 100
55 233.3 54.7 82.1#

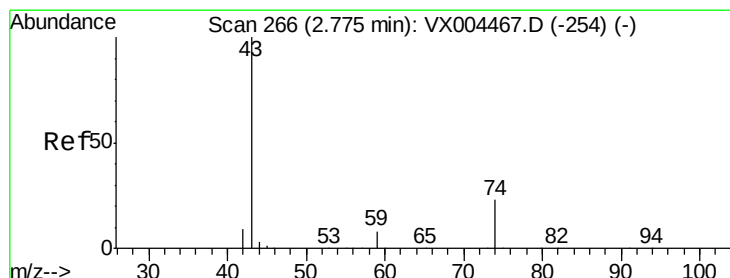
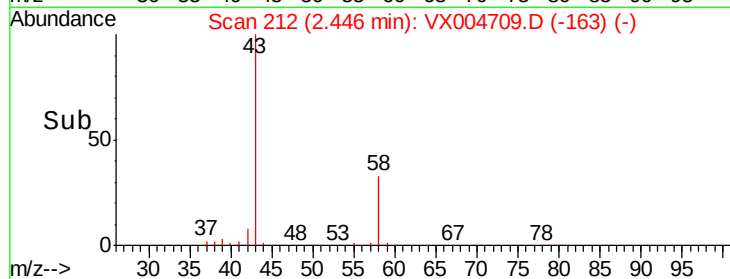
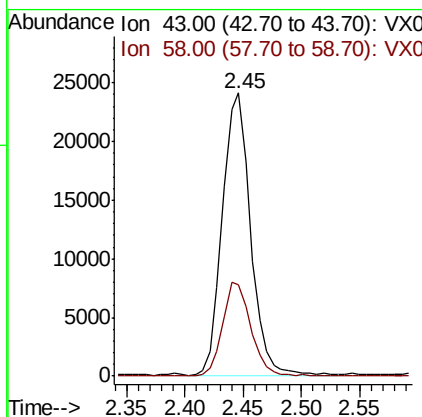
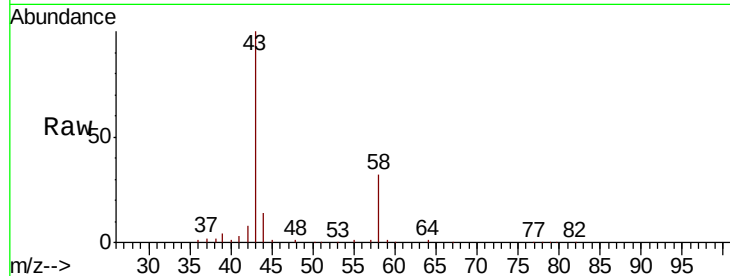




#16
 Acetone
 Concen: 30.70 ug/l
 RT: 2.45 min Scan# 212
 Delta R.T. -0.00 min
 Lab File: VX004709.D
 Acq: 19 Sep 2018 16:46

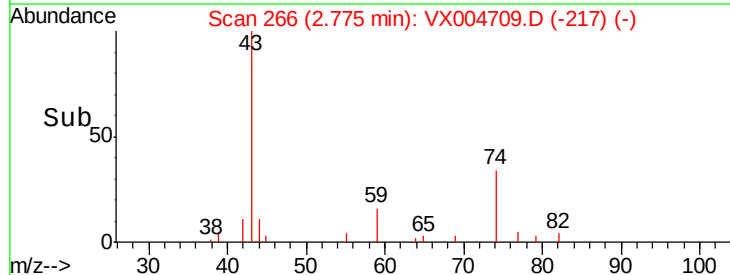
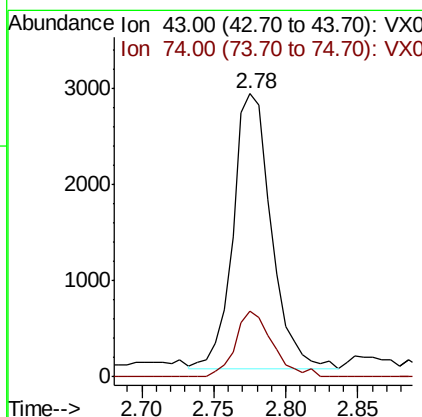
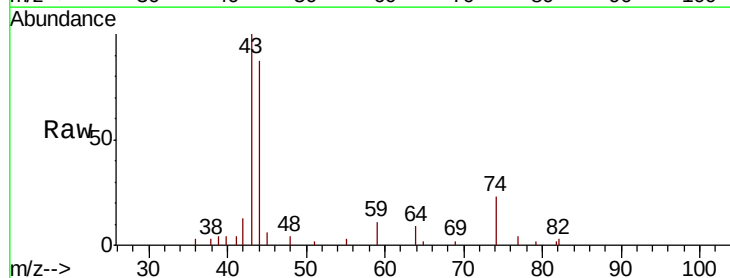
Instrument :
 MSVOA_X
 ClientSampled :

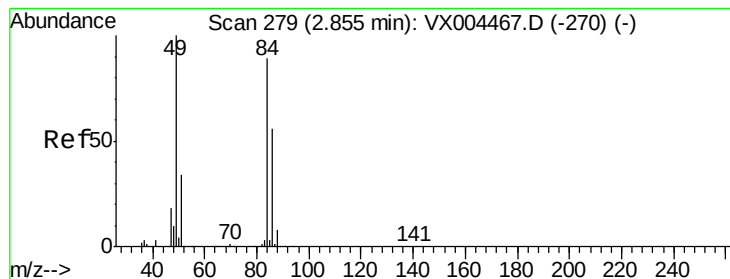
Tot Ion: 43 Resp: 40229
 Ion Ratio Lower Upper
 43 100
 58 32.6 26.2 39.4



#18
 Methyl Acetate
 Concen: 1.44 ug/l
 RT: 2.78 min Scan# 266
 Delta R.T. -0.00 min
 Lab File: VX004709.D
 Acq: 19 Sep 2018 16:46

Tgt Ion: 43 Resp: 5282
 Ion Ratio Lower Upper
 43 100
 74 23.2 19.4 29.2





#20

Methvlene Chloride

Concen: 11.11 ug/l

RT: 2.86 min Scan# 280

Delta R.T. 0.01 min

Lab File: VX004709.D

Acq: 19 Sep 2018 16:46

Instrument :

MSVOA_X

ClientSampled :

Tot Ion: 84 Resp: 29875

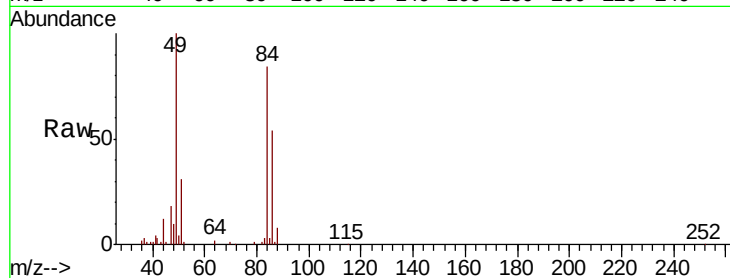
Ion Ratio Lower Upper

84 100

49 119.2 101.2 151.8

51 37.0 29.5 44.3

86 64.5 52.3 78.5

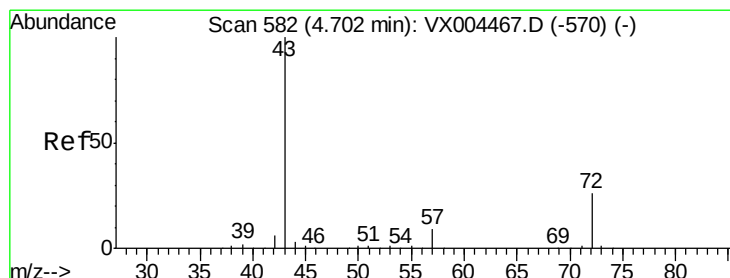
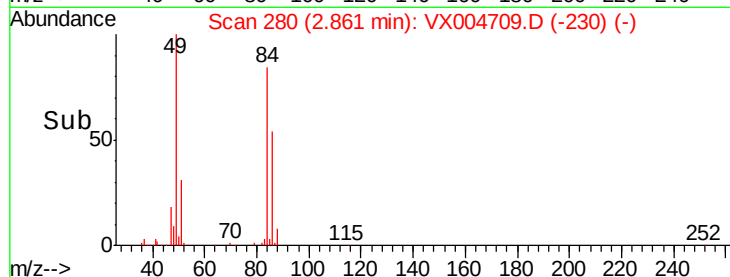
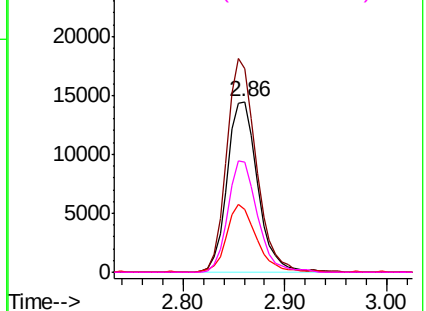


Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



#25

2-Butanone

Concen: 3.56 ug/l

RT: 4.71 min Scan# 583

Delta R.T. 0.01 min

Lab File: VX004709.D

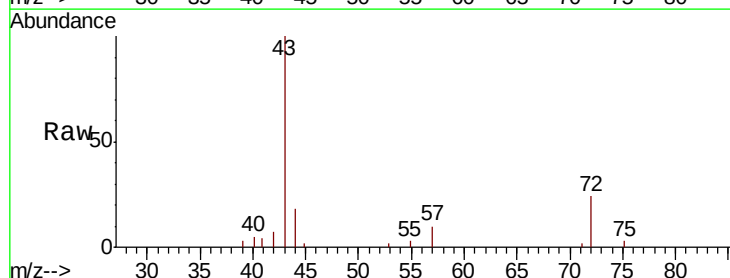
Acq: 19 Sep 2018 16:46

Tgt Ion: 43 Resp: 7418

Ion Ratio Lower Upper

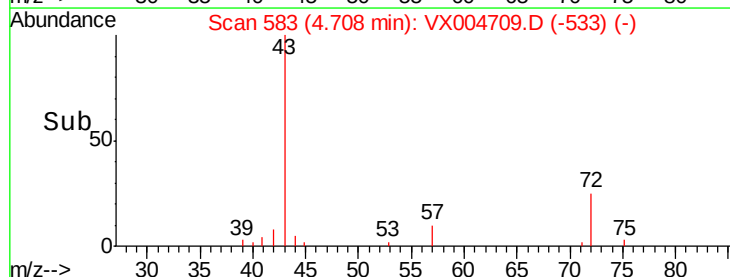
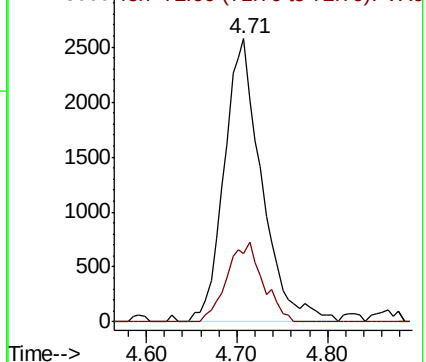
43 100

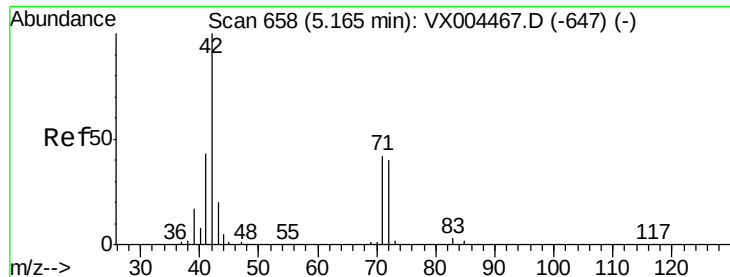
72 24.0 22.0 33.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#29

Tetrahydrofuran

Concen: 1.22 ug/l

RT: 5.16 min Scan# 657

Delta R.T. -0.01 min

Lab File: VX004709.D

Acq: 19 Sep 2018 16:46

Instrument :

MSVOA_X

ClientSampleId :

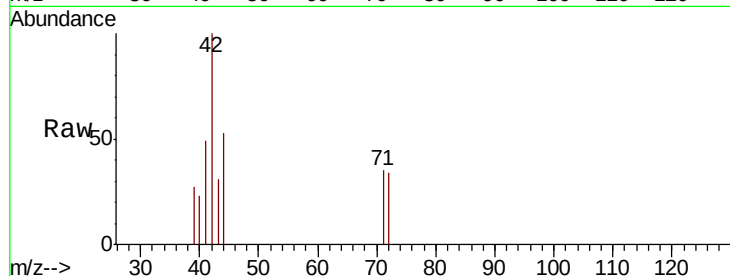
Tot Ion: 42 Resp: 1540

Ion Ratio Lower Upper

42 100

72 16.5 37.4 56.0#

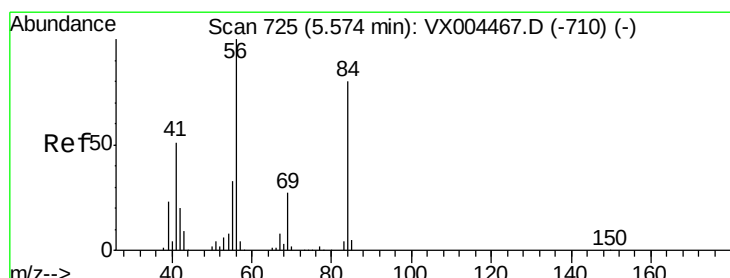
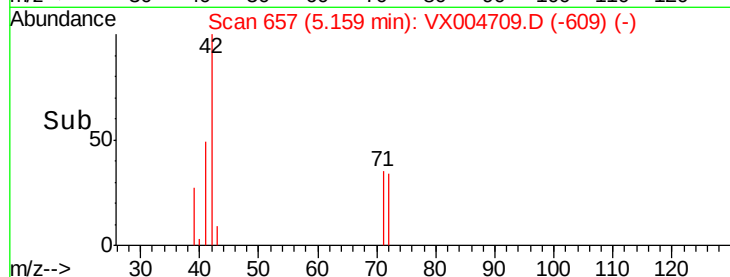
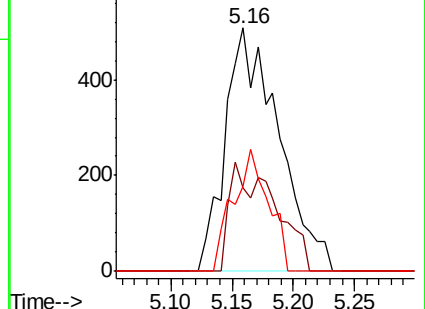
71 33.1 34.5 51.7#



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



#31

Cyclohexane

Concen: 0.78 ug/l

RT: 5.66 min Scan# 740

Delta R.T. 0.09 min

Lab File: VX004709.D

Acq: 19 Sep 2018 16:46

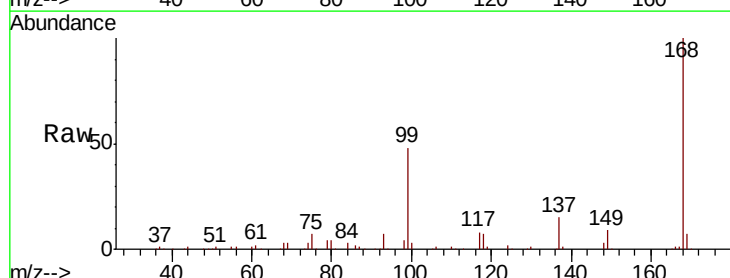
Tgt Ion: 56 Resp: 3012

Ion Ratio Lower Upper

56 100

69 225.7 25.4 38.2#

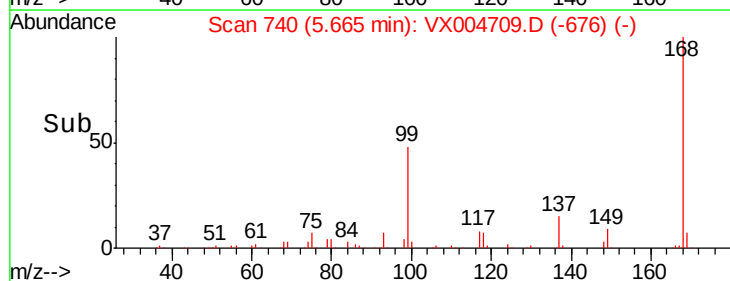
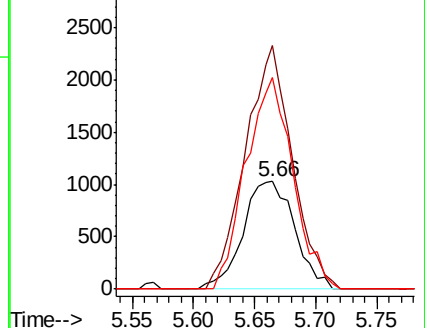
84 195.9 71.4 107.2#

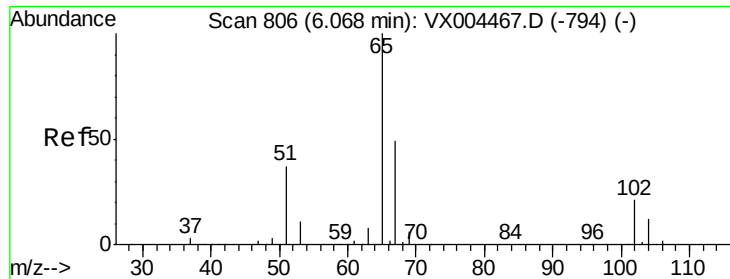


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

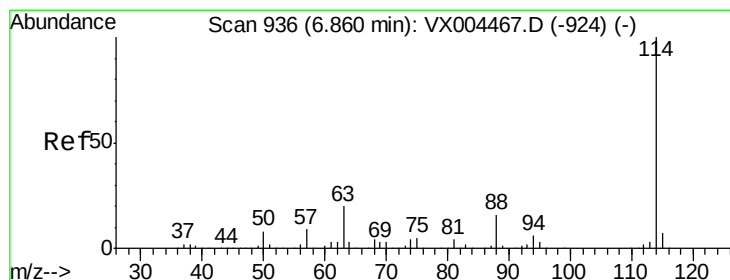
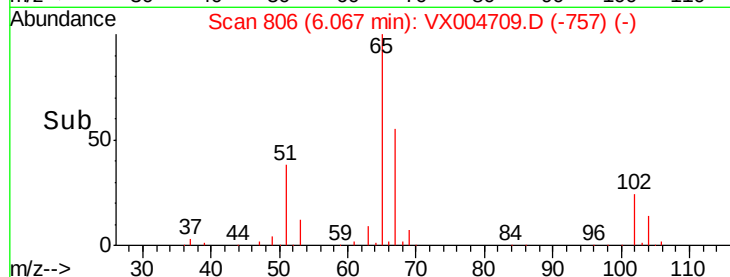
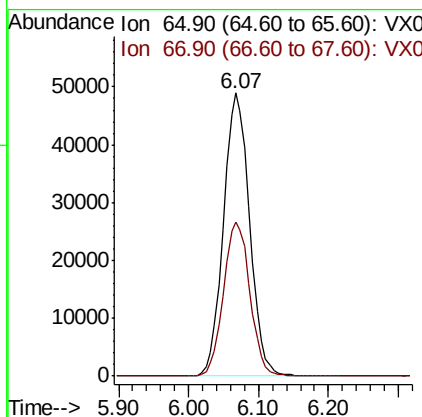
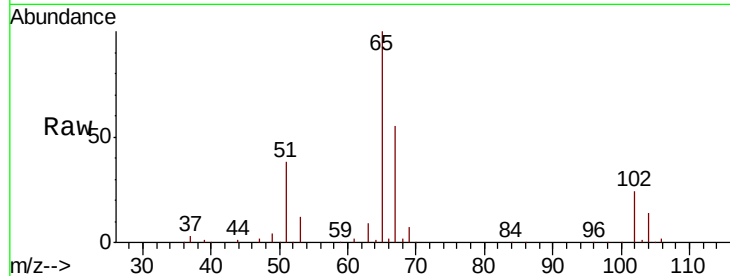




#33
 1,2-Dichloroethane-d4
 Concen: 47.21 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. -0.00 min
 Lab File: VX004709.D
 Acq: 19 Sep 2018 16:46

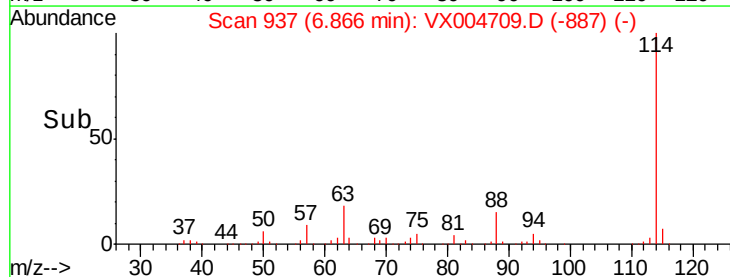
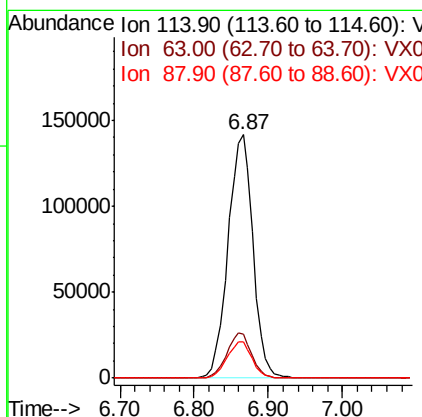
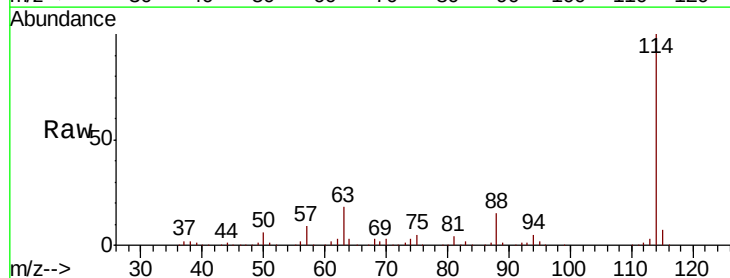
Instrument :
 MSVOA_X
 ClientSampleId :

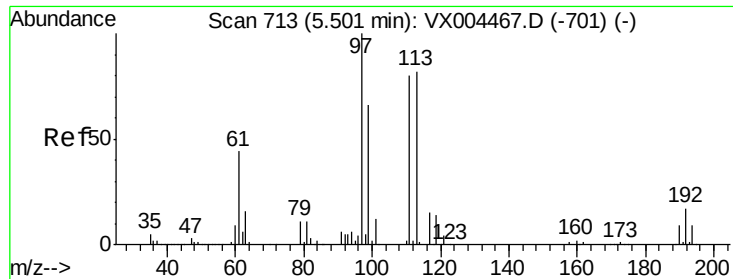
Tot Ion: 65 Resp: 126739
 Ion Ratio Lower Upper
 65 100
 67 54.9 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 937
 Delta R.T. 0.01 min
 Lab File: VX004709.D
 Acq: 19 Sep 2018 16:46

Tgt Ion:114 Resp: 331161
 Ion Ratio Lower Upper
 114 100
 63 18.3 0.0 39.0
 88 15.1 0.0 30.4





#35

Dibromofluoromethane

Concen: 39.44 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX004709.D

Acq: 19 Sep 2018 16:46

Instrument :
MSVOA_X
ClientSampleId :

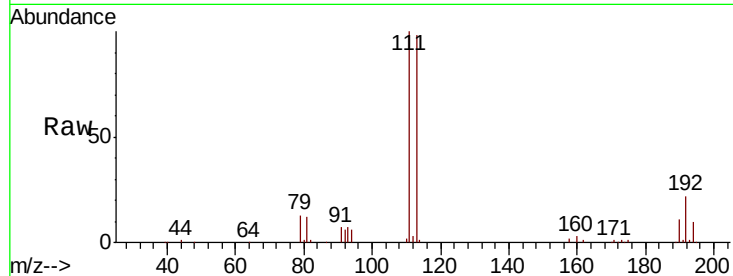
Tot Ion:113 Resp: 119525

Ion Ratio Lower Upper

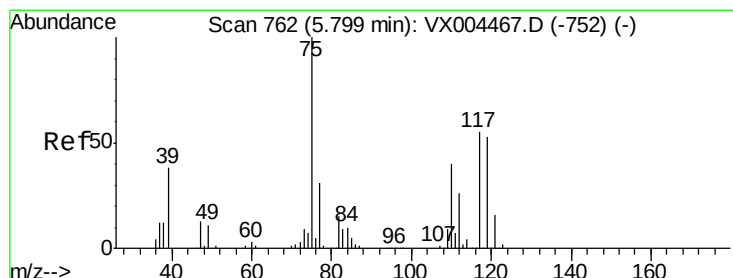
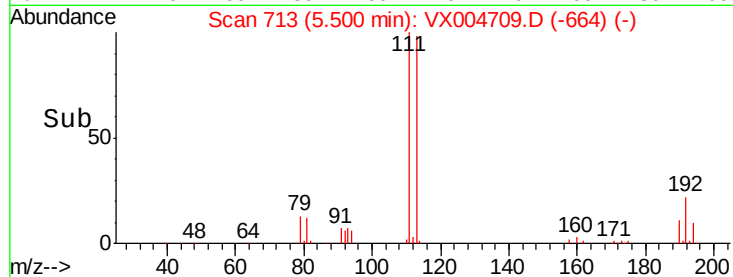
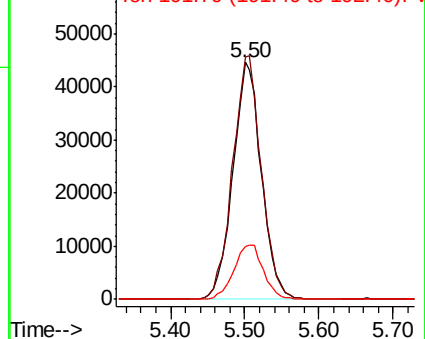
113 100

111 103.2 82.4 123.6

192 23.6 19.4 29.2



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: 3.21 ug/l

RT: 5.66 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX004709.D

Acq: 19 Sep 2018 16:46

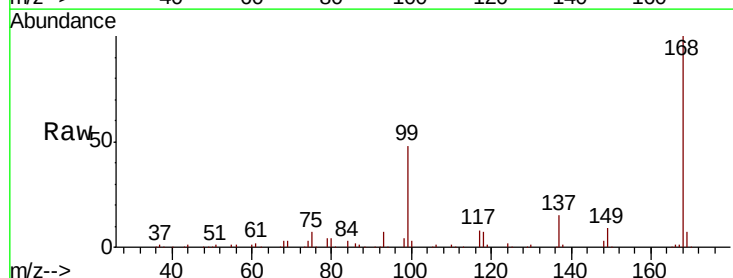
Tgt Ion: 75 Resp: 12890

Ion Ratio Lower Upper

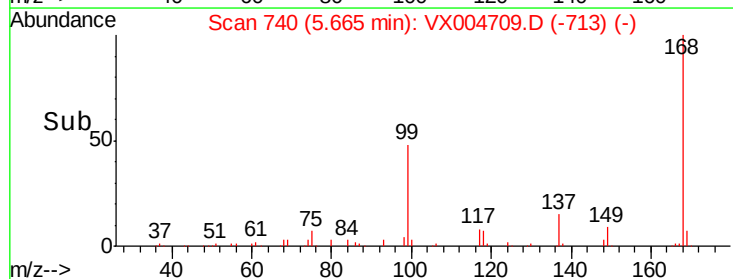
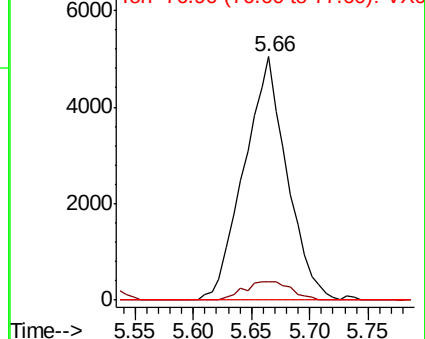
75 100

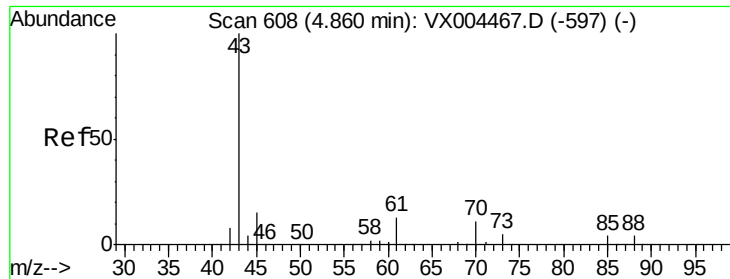
110 8.6 18.0 54.0#

77 0.0 24.6 36.8#



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

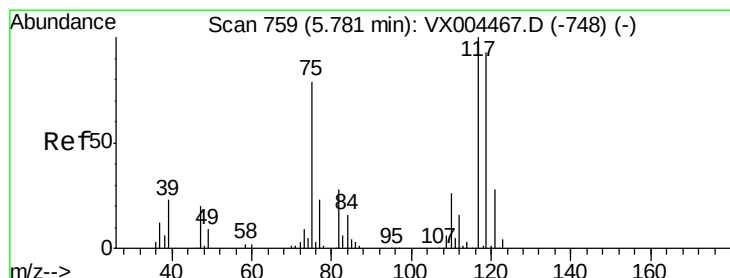
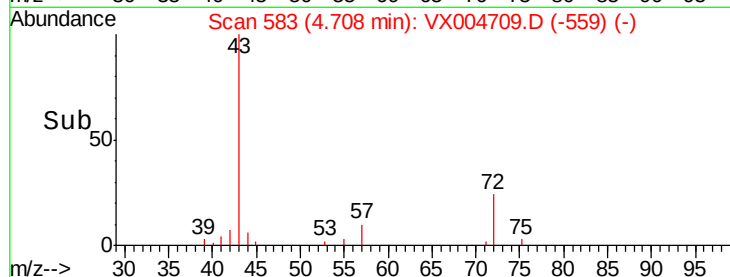
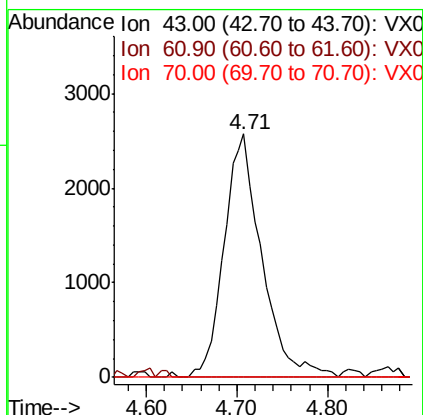
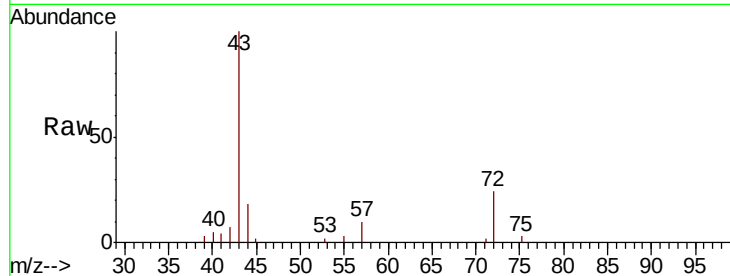




#37
Ethyl Acetate
Concen: 1.62 ug/l
RT: 4.71 min Scan# 583
Delta R.T. -0.15 min
Lab File: VX004709.D
Acq: 19 Sep 2018 16:46

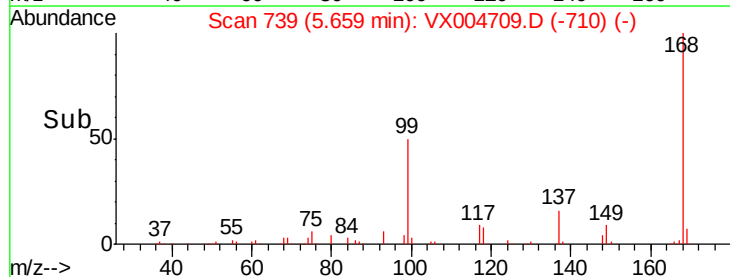
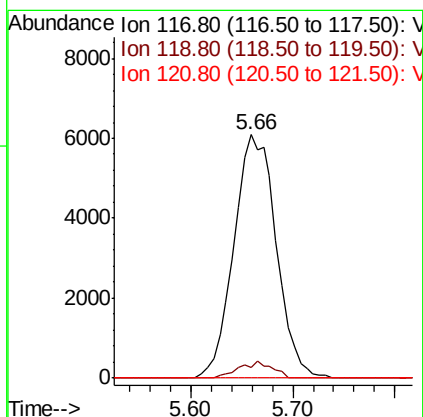
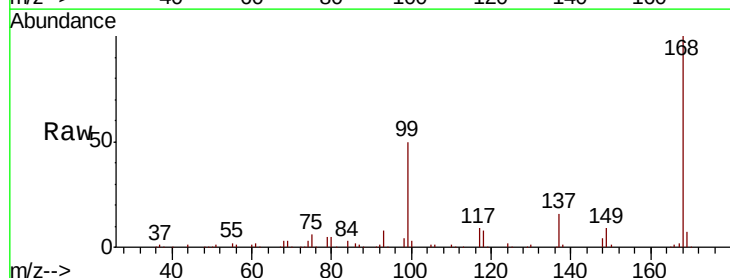
Instrument :
MSVOA_X
ClientSampleId :

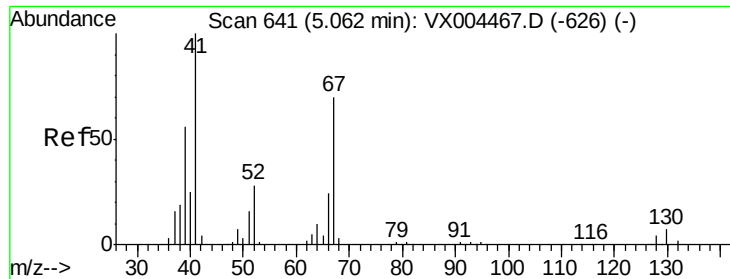
Tot Ion: 43 Resp: 7418
Ion Ratio Lower Upper
43 100
61 0.0 11.5 17.3#
70 0.0 9.0 13.6#



#38
Carbon Tetrachloride
Concen: 4.46 ug/l
RT: 5.66 min Scan# 739
Delta R.T. -0.12 min
Lab File: VX004709.D
Acq: 19 Sep 2018 16:46

Tgt Ion: 117 Resp: 17529
Ion Ratio Lower Upper
117 100
119 4.5 78.8 118.2#
121 0.0 24.9 37.3#

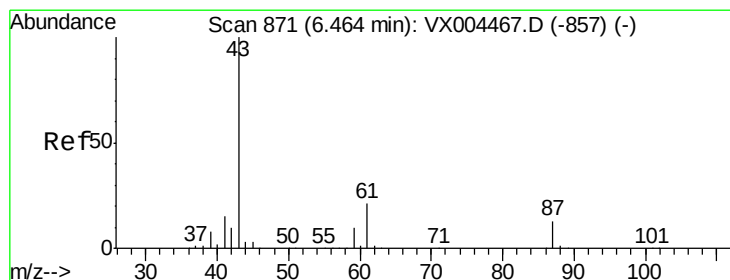
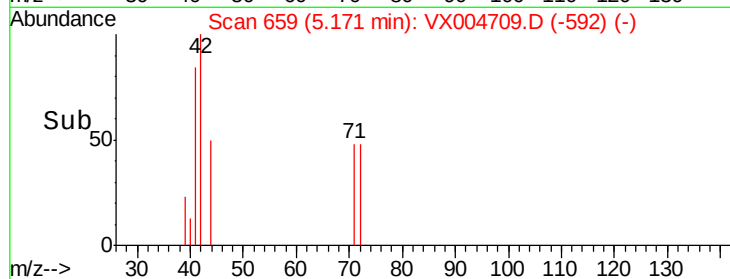
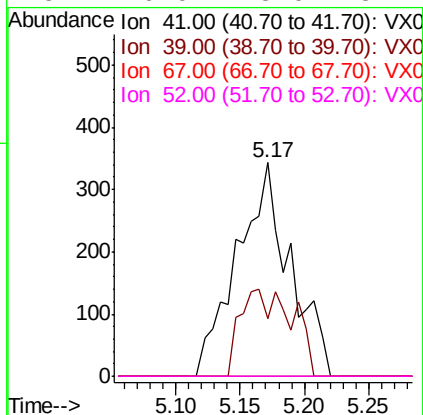
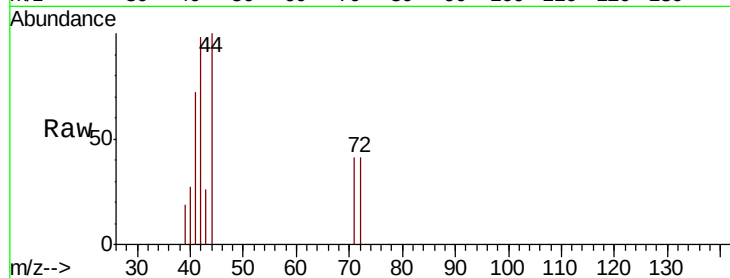




#41
Methacrylonitrile
Concen: 0.39 ug/l
RT: 5.17 min Scan# 659
Delta R.T. 0.11 min
Lab File: VX004709.D
Acq: 19 Sep 2018 16:46

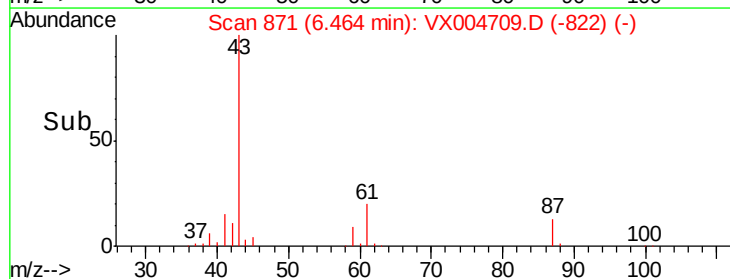
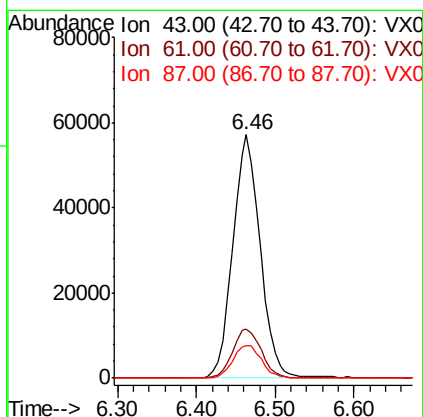
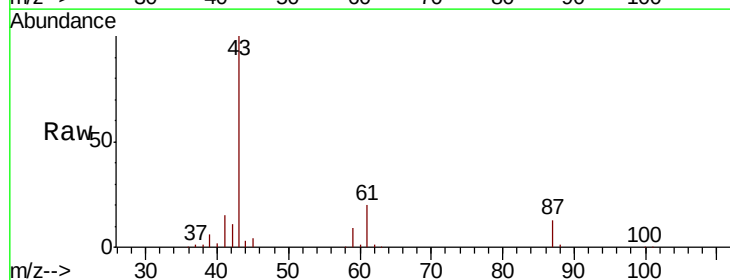
Instrument :
MSVOA_X
ClientSampled :

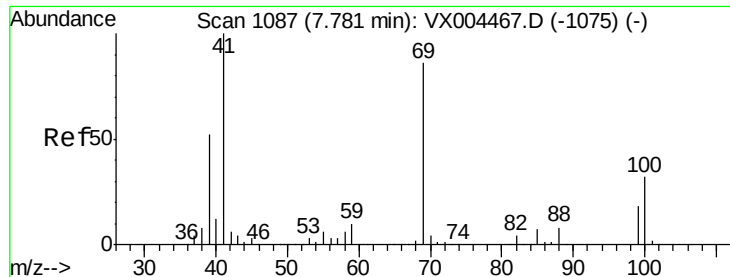
Tot Ion:	41	Resp:	974
Ion	Ratio	Lower	Upper
41	100		
39	40.6	42.4	63.6#
67	0.0	59.2	88.8#
52	0.0	23.0	34.4#



#43
Isopropyl Acetate
Concen: 22.71 ug/l
RT: 6.46 min Scan# 871
Delta R.T. -0.00 min
Lab File: VX004709.D
Acq: 19 Sep 2018 16:46

Tgt Ion:	43	Resp:	137949
Ion	Ratio	Lower	Upper
43	100		
61	21.3	17.0	25.4
87	14.1	11.4	17.2

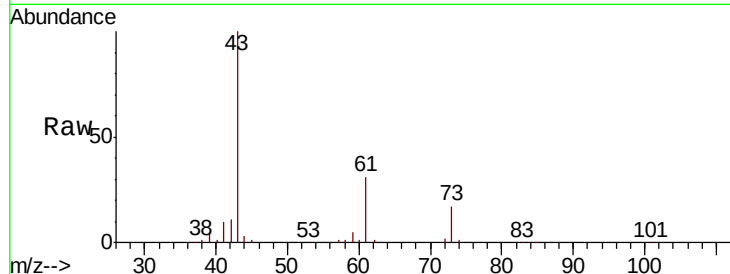




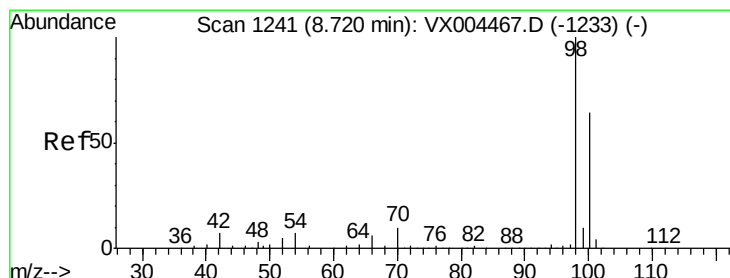
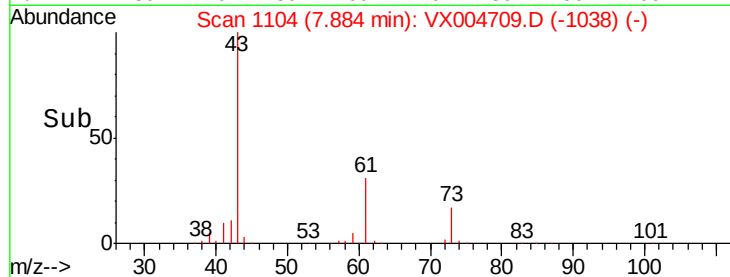
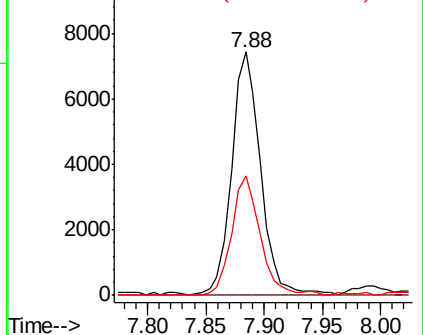
#48
Methvl methacrylate
Concen: 4.30 ug/l
RT: 7.88 min Scan# 1104
Delta R.T. 0.10 min
Lab File: VX004709.D
Acq: 19 Sep 2018 16:46

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 41 Resp: 12916
Ion Ratio Lower Upper
41 100
69 0.0 70.2 105.4#
39 48.5 42.7 64.1

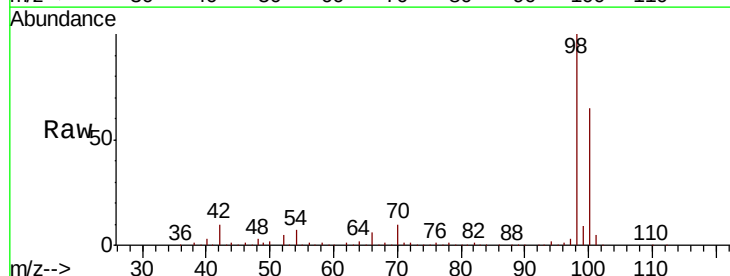


Abundance Ion 41.00 (40.70 to 41.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 39.00 (38.70 to 39.70): VX0

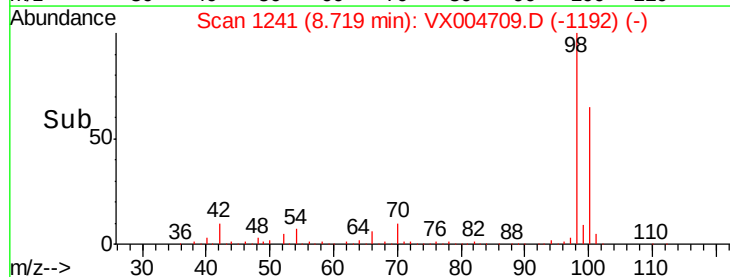
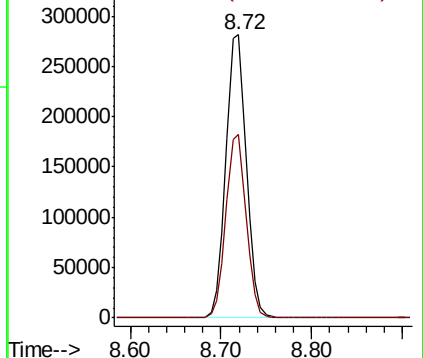


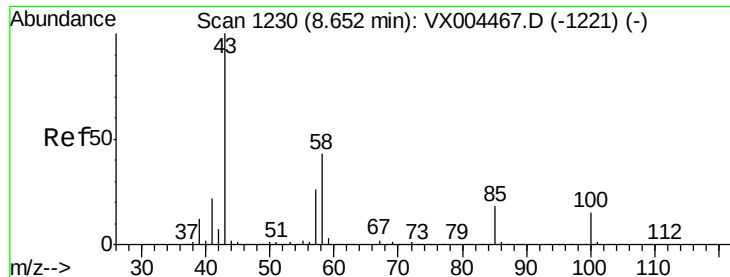
#50
Toluene-d8
Concen: 43.64 ug/l
RT: 8.72 min Scan# 1241
Delta R.T. -0.00 min
Lab File: VX004709.D
Acq: 19 Sep 2018 16:46

Tgt Ion: 98 Resp: 443545
Ion Ratio Lower Upper
98 100
100 64.1 52.9 79.3



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

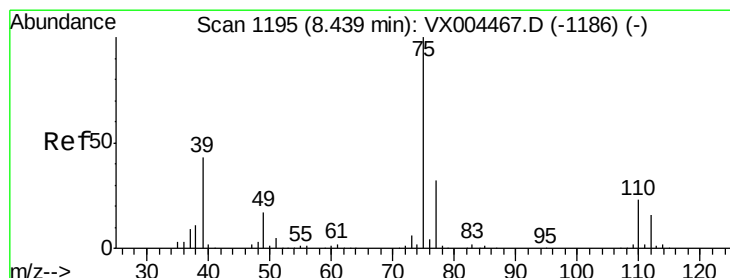
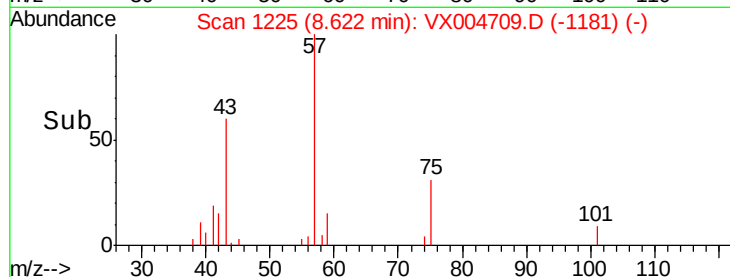
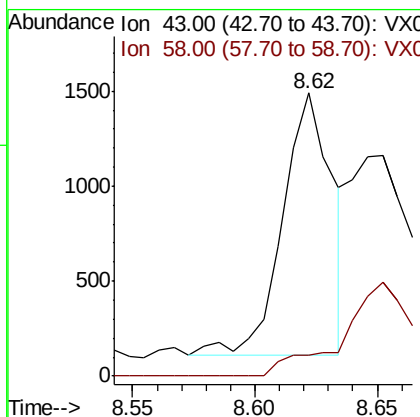
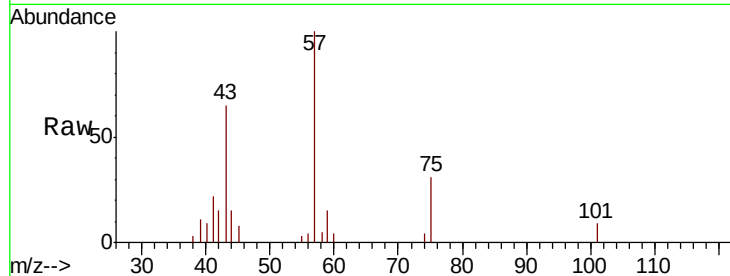




#51
 4-Methyl-2-Pentanone
 Concen: 0.46 ug/l
 RT: 8.62 min Scan# 1225
 Delta R.T. -0.03 min
 Lab File: VX004709.D
 Acq: 19 Sep 2018 16:46

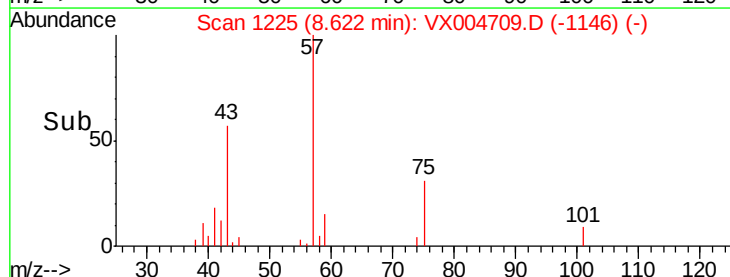
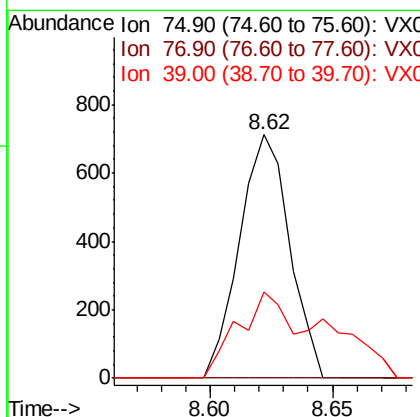
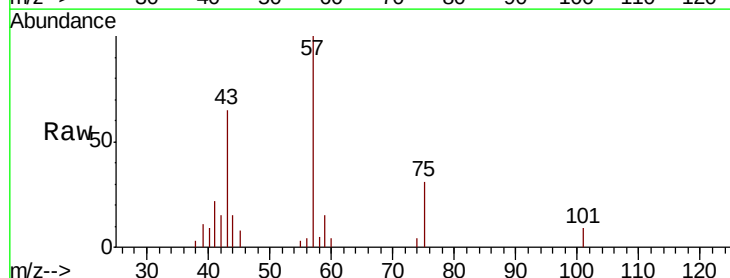
Instrument :
 MSVOA_X
 ClientSampleId :

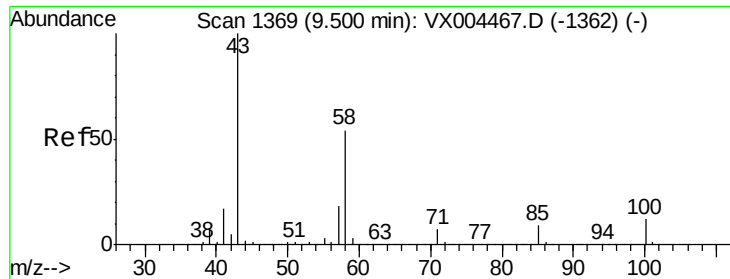
Tot Ion: 43 Resp: 1957
 Ion Ratio Lower Upper
 43 100
 58 0.0 33.1 49.7#



#54
 cis-1,3-Dichloropropene
 Concen: 0.25 ug/l
 RT: 8.62 min Scan# 1225
 Delta R.T. 0.18 min
 Lab File: VX004709.D
 Acq: 19 Sep 2018 16:46

Tgt Ion: 75 Resp: 1012
 Ion Ratio Lower Upper
 75 100
 77 0.0 26.2 39.2#
 39 35.4 36.4 54.6#

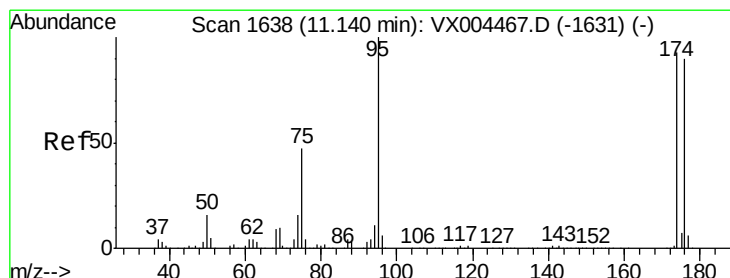
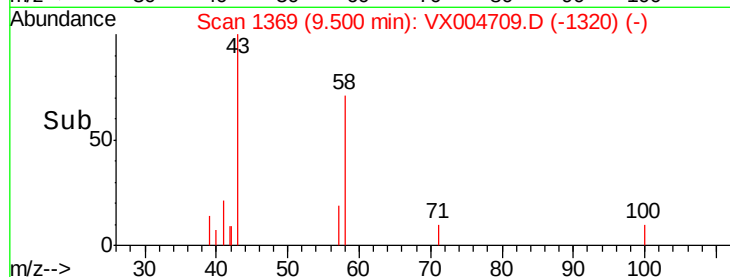
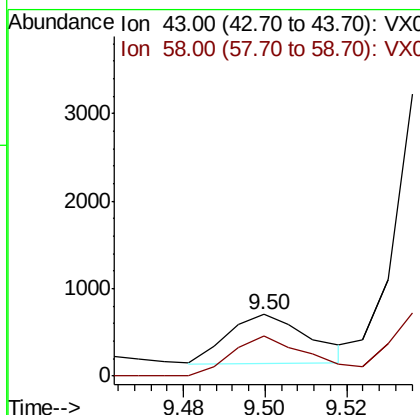
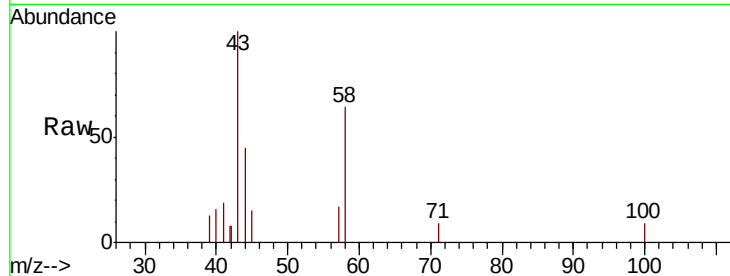




#59
2-Hexanone
Concen: 0.23 ug/l
RT: 9.50 min Scan# 1369
Delta R.T. -0.00 min
Lab File: VX004709.D
Acq: 19 Sep 2018 16:46

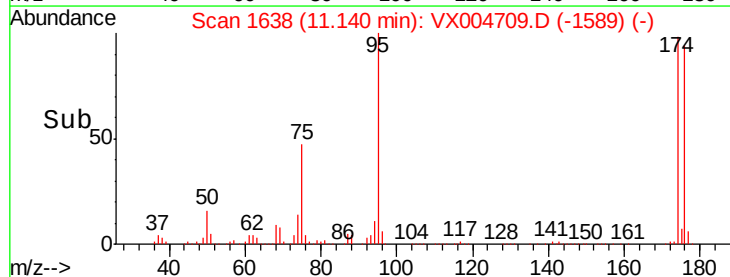
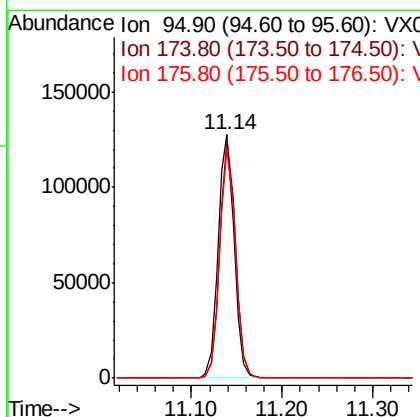
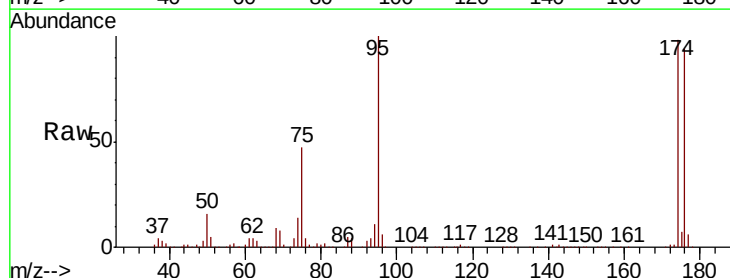
Instrument :
MSVOA_X
ClientSampleId :

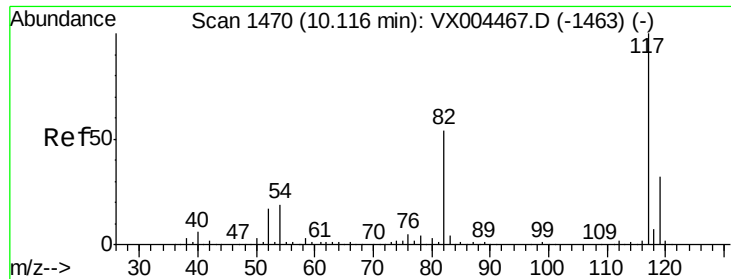
Tot Ion: 43 Resp: 768
Ion Ratio Lower Upper
43 100
58 81.9 29.0 87.0



#62
4-Bromofluorobenzene
Concen: 43.36 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.00 min
Lab File: VX004709.D
Acq: 19 Sep 2018 16:46

Tgt Ion: 95 Resp: 157291
Ion Ratio Lower Upper
95 100
174 96.6 0.0 185.2
176 92.3 0.0 178.6

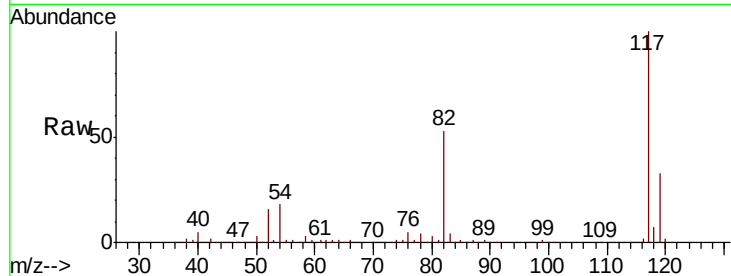




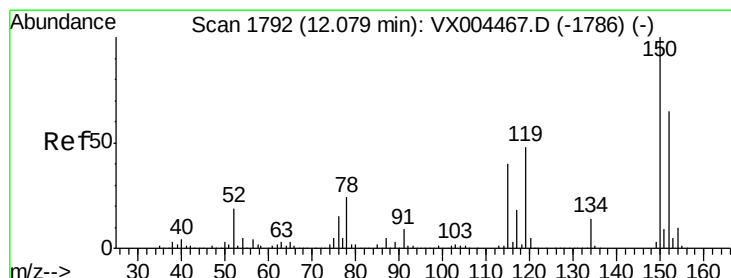
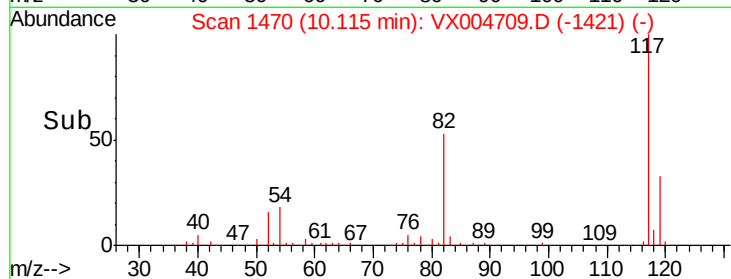
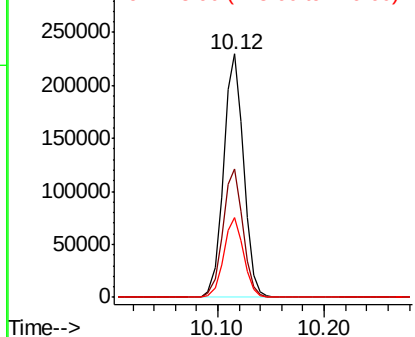
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX004709.D
Acq: 19 Sep 2018 16:46

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 302587
Ion Ratio Lower Upper
117 100
82 52.6 47.8 71.6
119 32.8 29.3 43.9

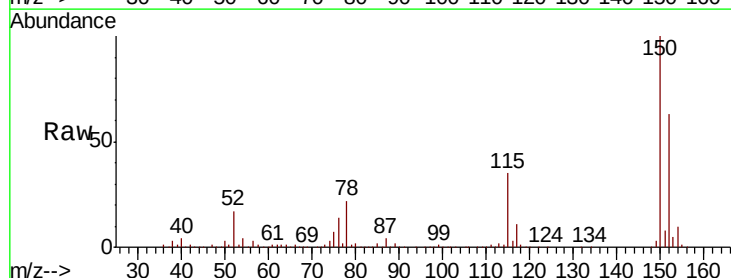


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

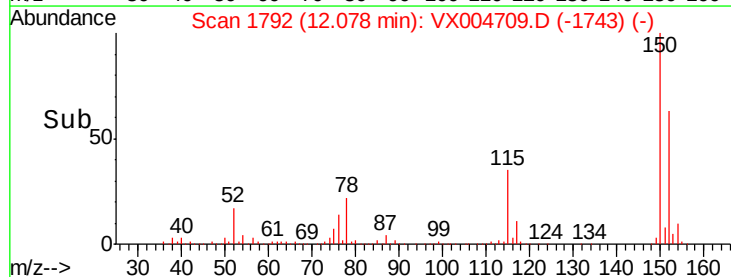
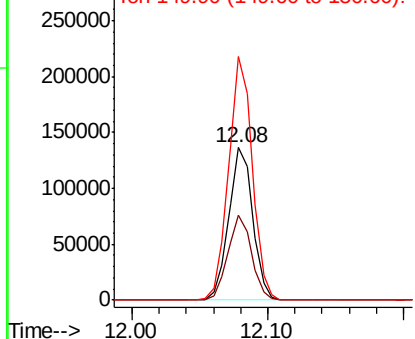


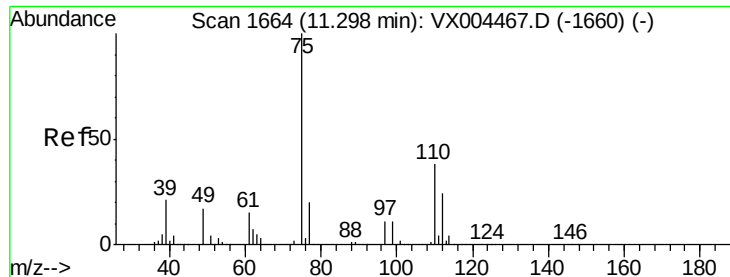
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX004709.D
Acq: 19 Sep 2018 16:46

Tgt Ion:152 Resp: 167434
Ion Ratio Lower Upper
152 100
115 54.7 39.0 117.0
150 157.0 0.0 351.0



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





#76

1,2,3-Trichloropropane

Concen: 21.90 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX004709.D

Acq: 19 Sep 2018 16:46

Instrument :

MSVOA_X

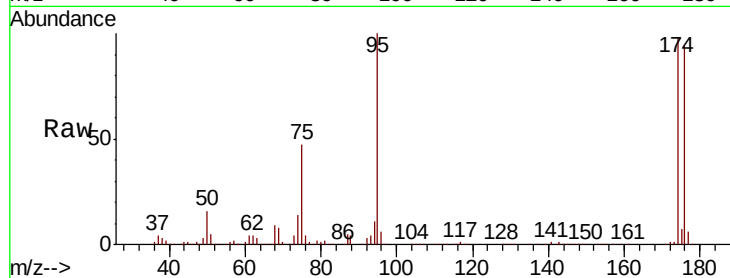
ClientSampleId :

Tot Ion: 75 Resp: 73782

Ion Ratio Lower Upper

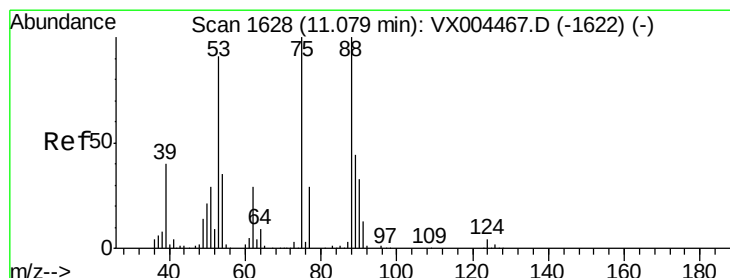
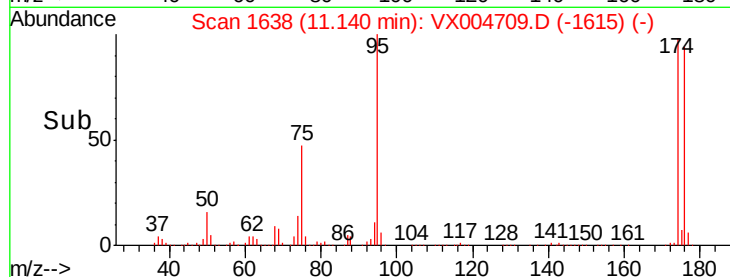
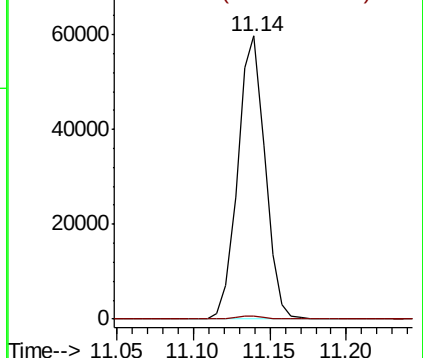
75 100

77 1.3 20.2 60.6#



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: 69.81 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.06 min

Lab File: VX004709.D

Acq: 19 Sep 2018 16:46

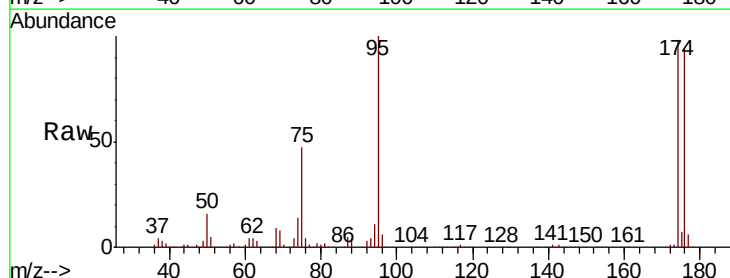
Tgt Ion: 75 Resp: 73782

Ion Ratio Lower Upper

75 100

53 0.1 80.1 120.1#

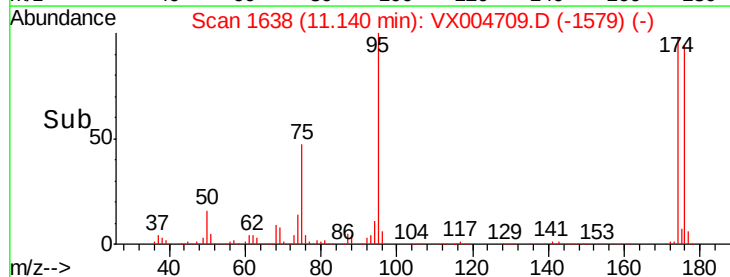
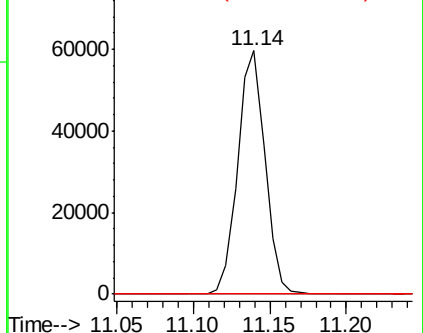
89 0.0 37.2 55.8#

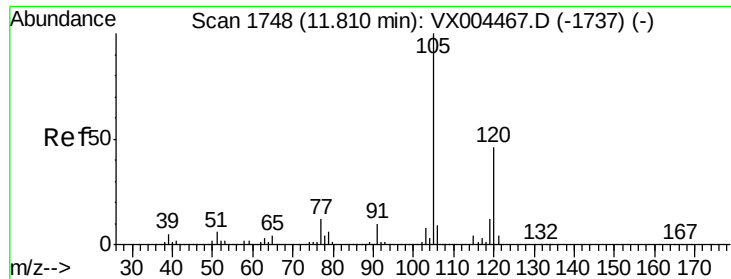


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

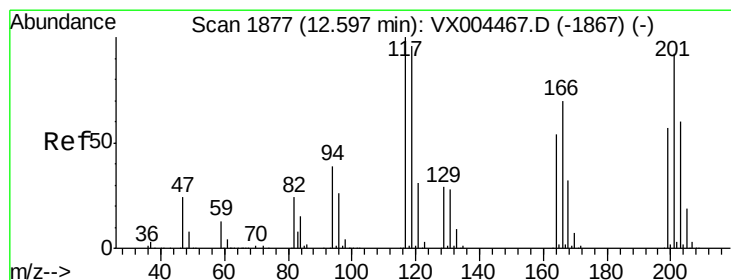
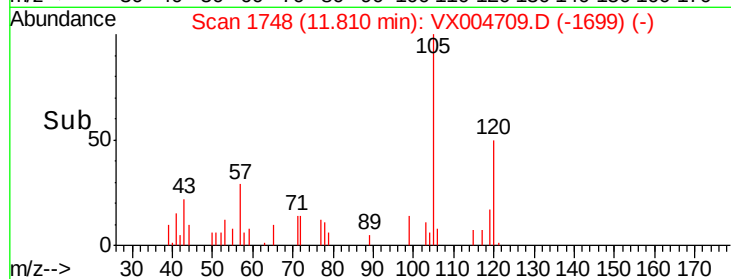
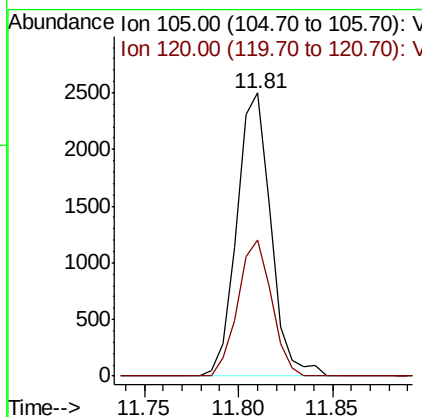
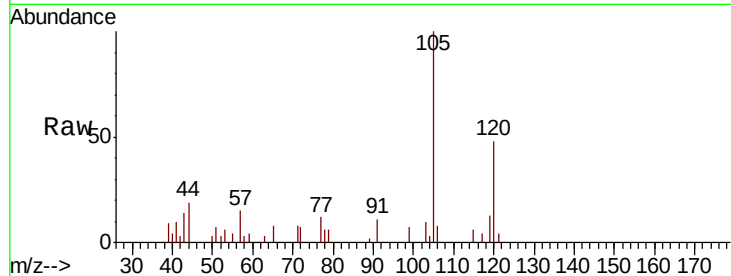




#84
 1,2,4-Trimethylbenzene
 Concen: 0.33 ug/l
 RT: 11.81 min Scan# 1748
 Delta R.T. -0.00 min
 Lab File: VX004709.D
 Acq: 19 Sep 2018 16:46

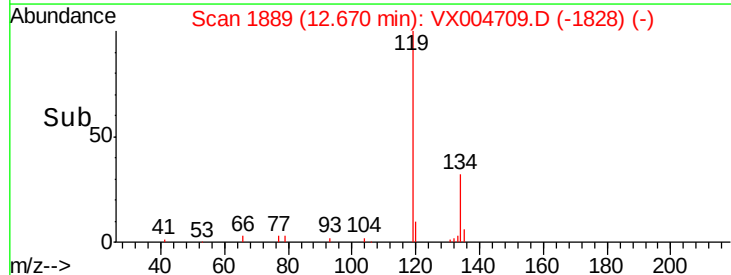
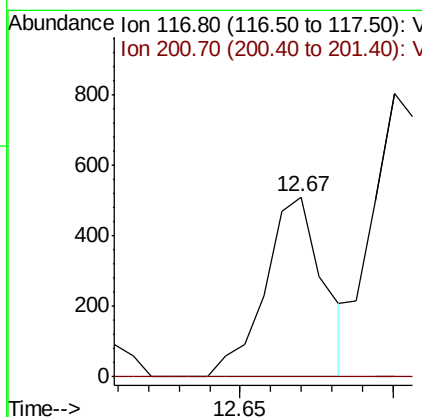
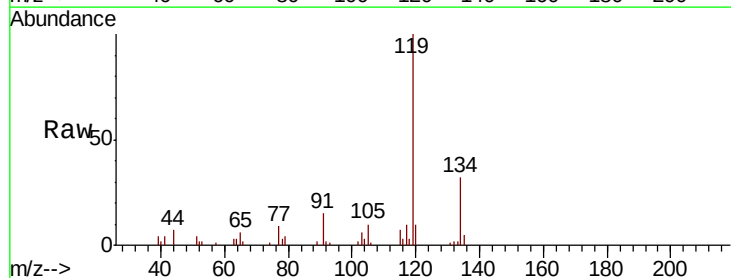
Instrument :
 MSVOA_X
 ClientSampled :

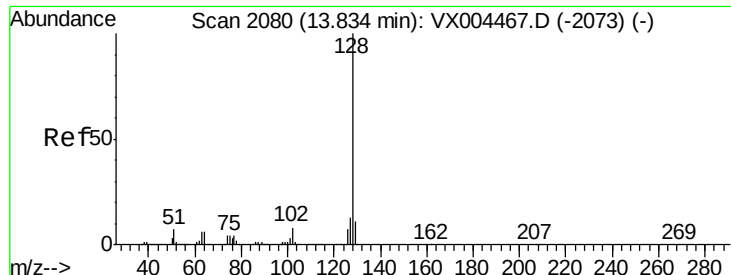
Tot Ion:105 Resp: 3135
 Ion Ratio Lower Upper
 105 100
 120 47.3 23.2 69.6



#90
 Hexachloroethane
 Concen: 0.43 ug/l
 RT: 12.67 min Scan# 1889
 Delta R.T. 0.07 min
 Lab File: VX004709.D
 Acq: 19 Sep 2018 16:46

Tgt Ion:117 Resp: 681
 Ion Ratio Lower Upper
 117 100
 201 0.0 46.9 140.6#





#95
Naphthalene
Concen: 49.52 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. -0.00 min
Lab File: VX004709.D
Acq: 19 Sep 2018 16:46

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.2	15.2
129	10.9	8.6	12.8

