

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX111218\
 Data File : VX005926.D
 Acq On : 13 Nov 2018 03:32
 Operator : JC/MD
 Sample : J5766-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 HD-01-110918

Quant Time: Nov 13 04:49:07 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X110718W.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 07 14:40:53 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	104274	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	6.86	114	150663	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	136778	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	65524	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	66623	55.58	ug/l	0.00
Spiked Amount			Recovery	=	111.16%	
35) Dibromofluoromethane	5.51	113	52823	51.55	ug/l	0.00
Spiked Amount			Recovery	=	103.10%	
50) Toluene-d8	8.71	98	177328	52.05	ug/l	0.00
Spiked Amount			Recovery	=	104.10%	
62) 4-Bromofluorobenzene	11.14	95	60188	49.14	ug/l	0.00
Spiked Amount			Recovery	=	98.28%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.03	59	530	1.543	ug/l #	72
13) Acrolein	2.29	56	42	19.400	ug/l #	74
16) Acetone	2.45	43	6094	9.442	ug/l	96
18) Methyl Acetate	2.78	43	2469	Below Cal		96
20) Methylene Chloride	2.85	84	12617	11.900	ug/l	96
25) 2-Butanone	4.70	43	1880	1.853	ug/l	97
29) Tetrahydrofuran	5.17	42	410	0.629	ug/l #	45
31) Cyclohexane	5.67	56	1845	1.105	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	6845	4.713	ug/l #	49
37) Ethyl Acetate	4.70	43	1880	0.984	ug/l #	69
38) Carbon Tetrachloride	5.67	117	9357	6.435	ug/l #	14
43) Isopropyl Acetate	6.46	43	70797	25.581	ug/l	98
44) Trichloroethene	7.22	130	416	0.387	ug/l	97
48) Methyl methacrylate	7.68	41	2646	2.129	ug/l #	24
51) 4-Methyl-2-Pentanone	8.62	43	1415	0.811	ug/l #	38
54) cis-1,3-Dichloropropene	8.62	75	464	0.317	ug/l #	71
59) 2-Hexanone	9.51	43	328	0.213	ug/l	78
64) Tetrachloroethene	9.34	164	253	0.217	ug/l	88
74) N-amyl acetate	10.88	43	20	1.260	ug/l #	44
76) 1,2,3-Trichloropropane	11.14	75	30576	22.917	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.14	75	30576	73.040	ug/l #	9
84) 1,2,4-Trimethylbenzene	11.81	105	339	Below Cal		90
90) Hexachloroethane	12.76	117	164	0.278	ug/l #	2
95) Naphthalene	13.83	128	16012	4.494	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 741

Delta R.T. 0.01 min

Lab File: VX005926.D

Acq: 13 Nov 2018 03:32

Instrument :

MSVOA_X

ClientSampleId :

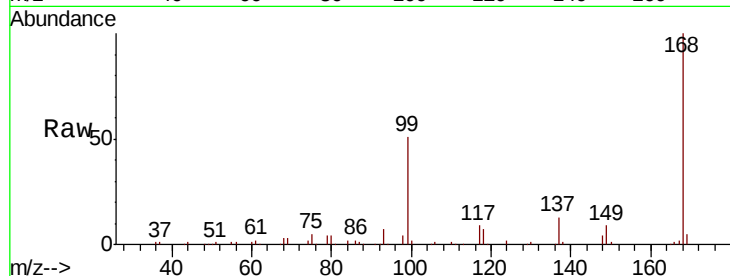
HD-01-110918

Tot Ion:168 Resp: 104274

Ion Ratio Lower Upper

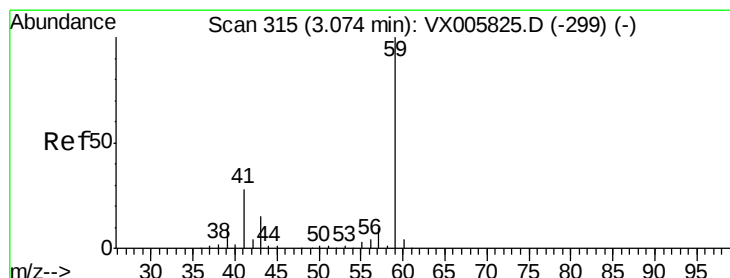
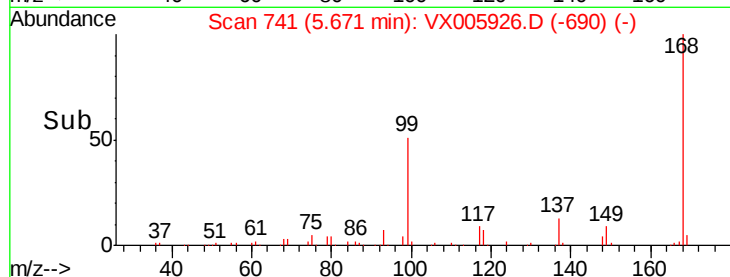
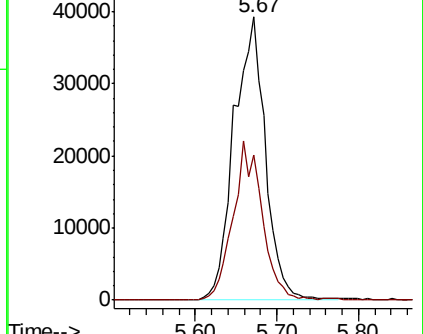
168 100

99 51.3 40.7 61.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#11

Tert butyl alcohol

Concen: 1.543 ug/l

RT: 3.03 min Scan# 307

Delta R.T. -0.05 min

Lab File: VX005926.D

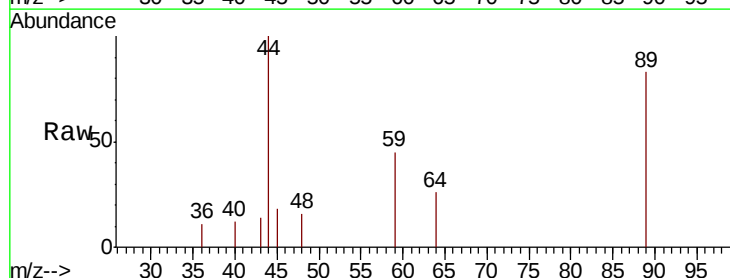
Acq: 13 Nov 2018 03:32

Tgt Ion: 59 Resp: 530

Ion Ratio Lower Upper

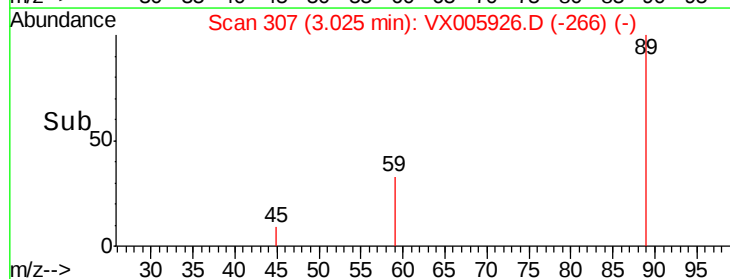
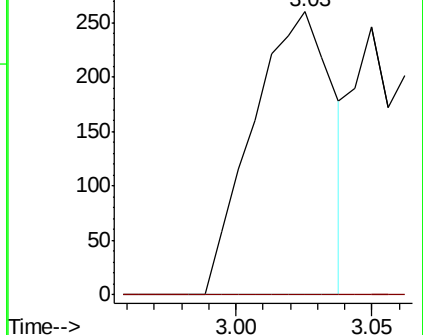
59 100

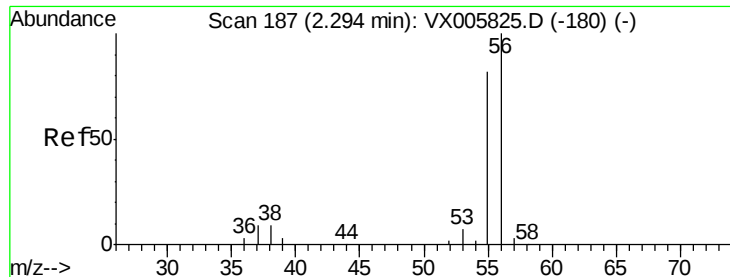
57 0.0 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 19.400 ug/l

RT: 2.29 min Scan# 187

Delta R.T. 0.00 min

Lab File: VX005926.D

Acq: 13 Nov 2018 03:32

Instrument :

MSVOA_X

ClientSampleId :

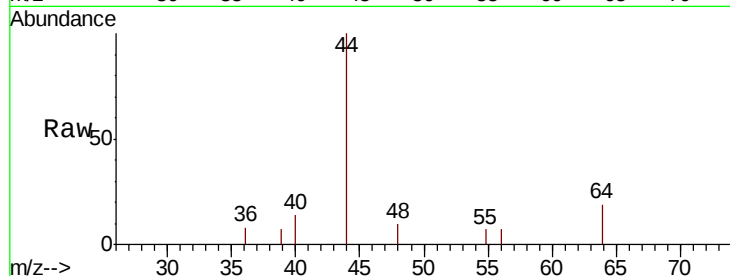
HD-01-110918

Tot Ion: 56 Resp: 42

Ion Ratio Lower Upper

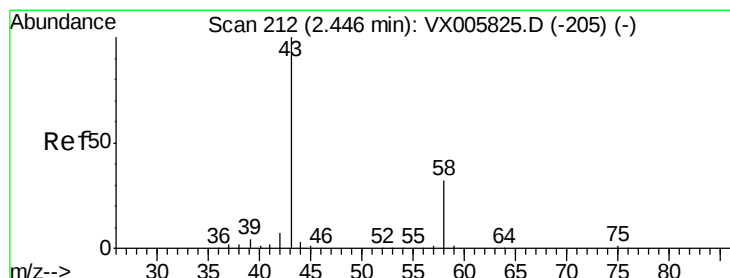
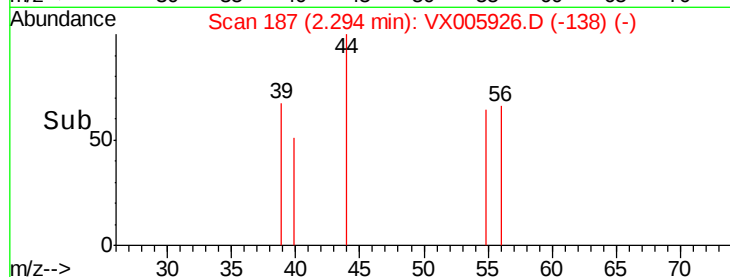
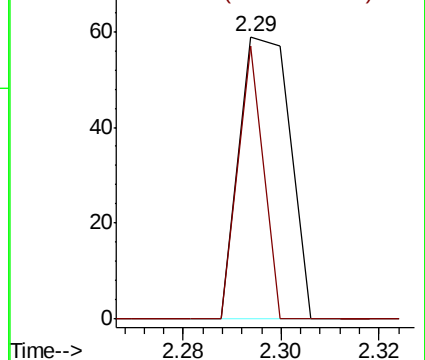
56 100

55 50.0 57.3 85.9#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 9.442 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX005926.D

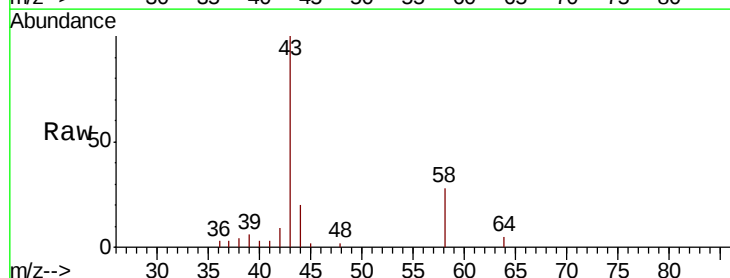
Acq: 13 Nov 2018 03:32

Tgt Ion: 43 Resp: 6094

Ion Ratio Lower Upper

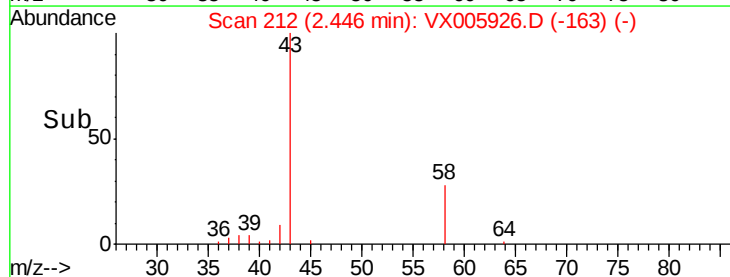
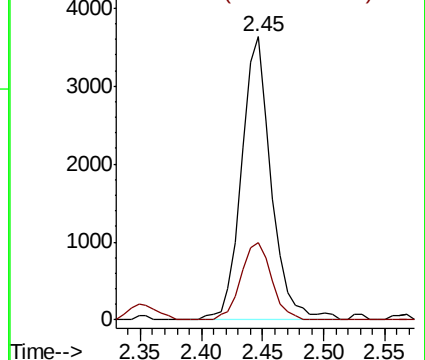
43 100

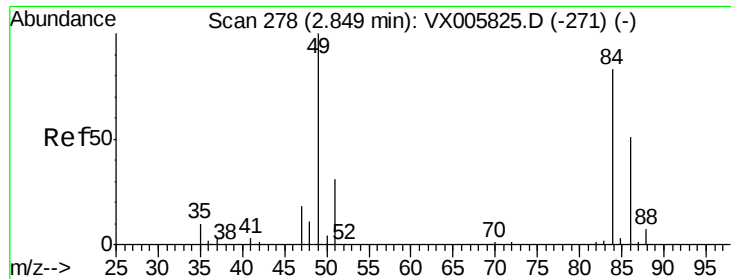
58 27.5 23.8 35.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

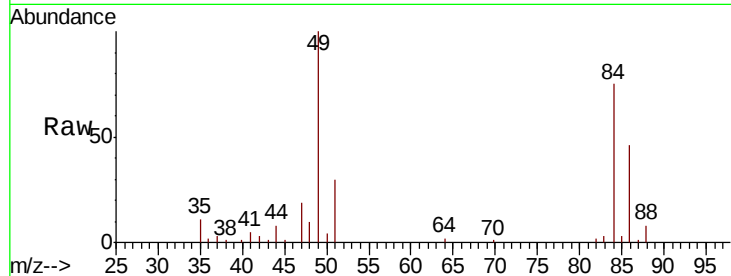




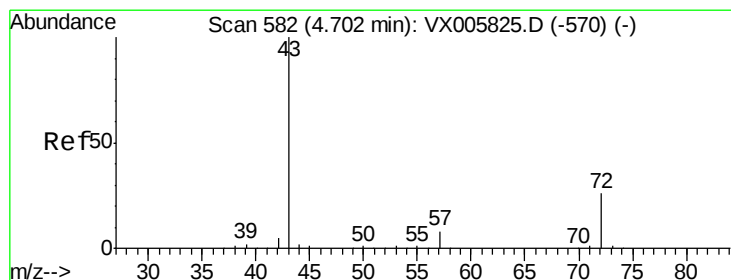
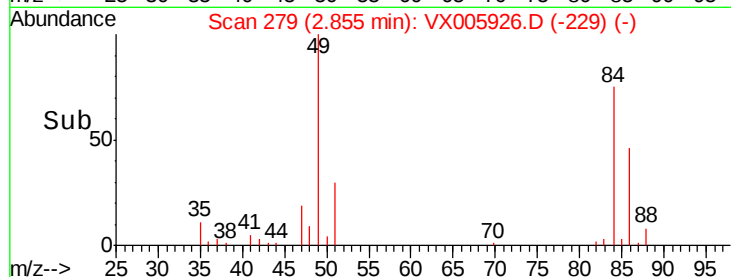
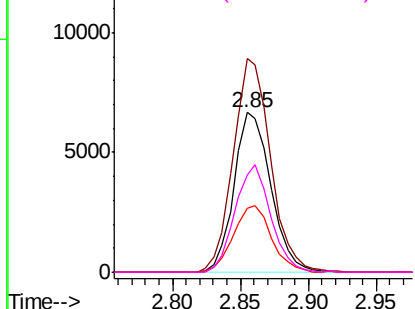
#20
Methvlene Chloride
Concen: 11.900 ug/l
RT: 2.85 min Scan# 279
Delta R.T. 0.01 min
Lab File: VX005926.D
Acq: 13 Nov 2018 03:32

Instrument :
MSVOA_X
ClientSampled :
HD-01-110918

Tot Ion: 84 Resp: 12617
Ion Ratio Lower Upper
84 100
49 133.5 109.5 164.3
51 40.1 33.3 49.9
86 61.1 52.7 79.1

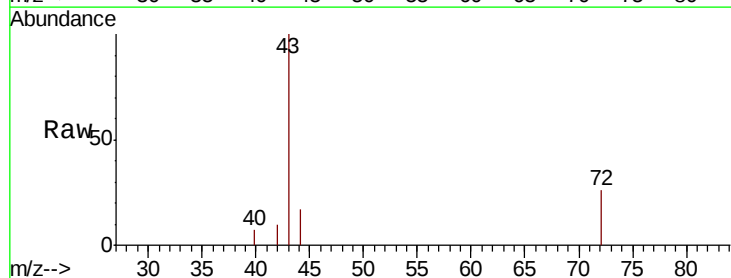


Abundance Ion 83.90 (83.60 to 84.60): VX0
Ion 48.90 (48.60 to 49.60): VX0
Ion 50.90 (50.60 to 51.60): VX0
Ion 85.90 (85.60 to 86.60): VX0

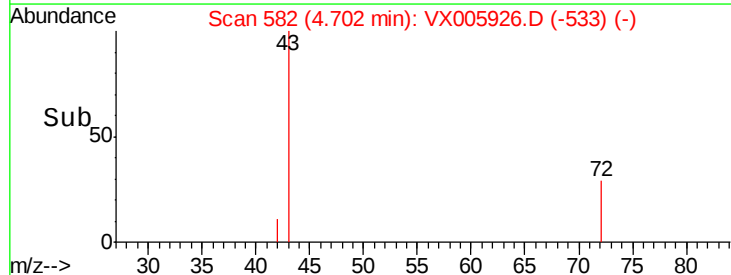
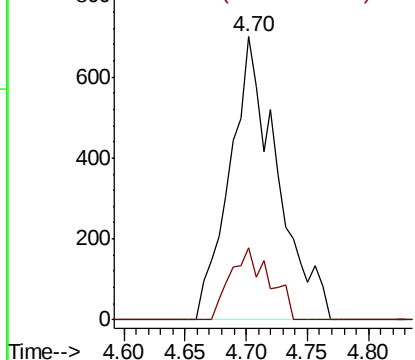


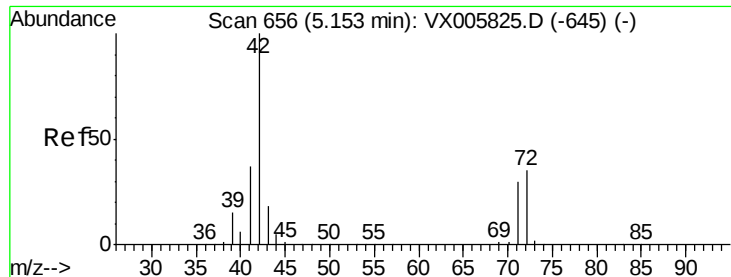
#25
2-Butanone
Concen: 1.853 ug/l
RT: 4.70 min Scan# 582
Delta R.T. -0.00 min
Lab File: VX005926.D
Acq: 13 Nov 2018 03:32

Tgt Ion: 43 Resp: 1880
Ion Ratio Lower Upper
43 100
72 25.6 19.2 28.8



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 72.00 (71.70 to 72.70): VX0

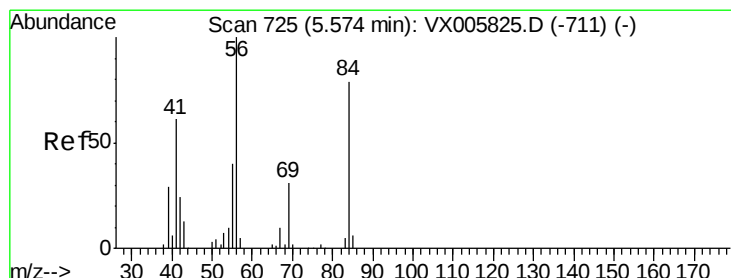
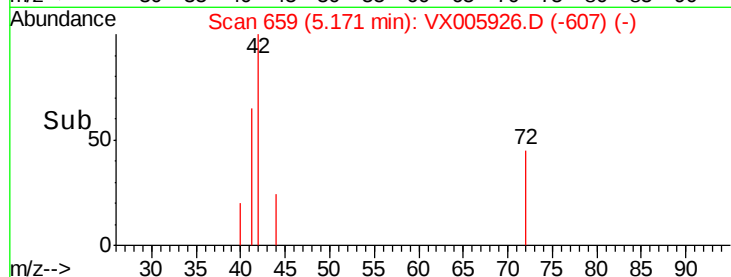
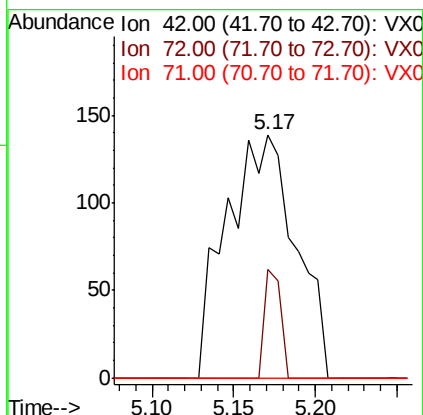
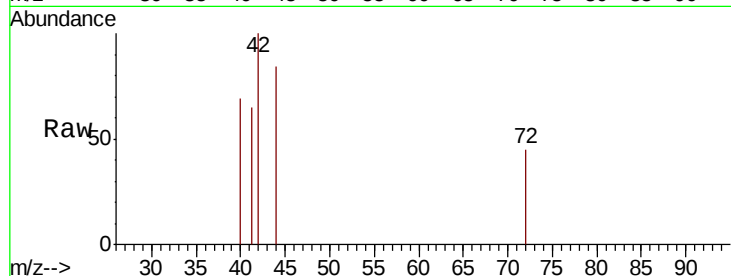




#29
Tetrahydrofuran
Concen: 0.629 ug/l
RT: 5.17 min Scan# 659
Delta R.T. 0.02 min
Lab File: VX005926.D
Acq: 13 Nov 2018 03:32

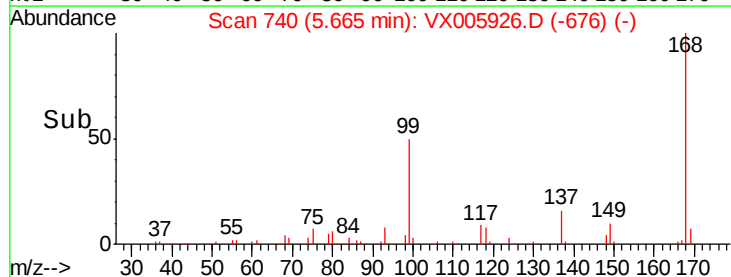
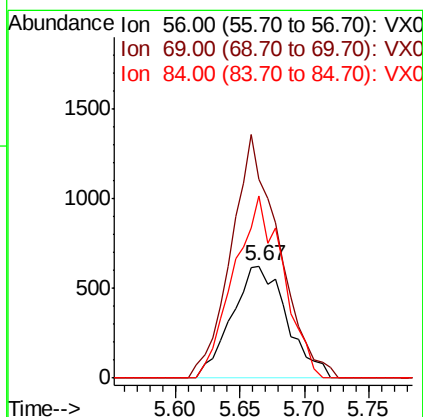
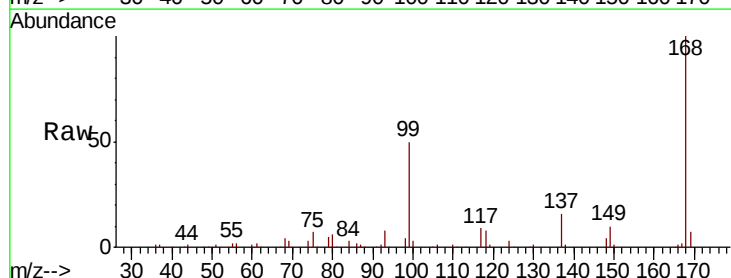
Instrument :
MSVOA_X
ClientSampleId :
HD-01-110918

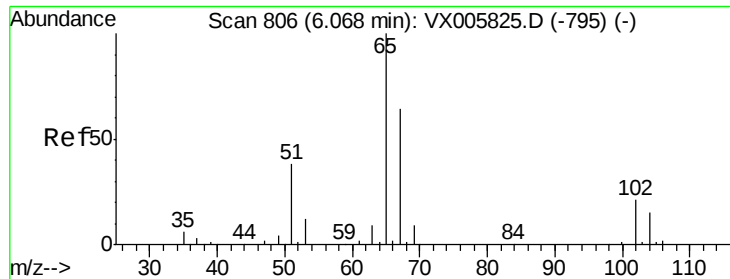
Tot Ion: 42 Resp: 410
Ion Ratio Lower Upper
42 100
72 10.5 32.0 48.0#
71 0.0 29.8 44.8#



#31
Cyclohexane
Concen: 1.105 ug/l
RT: 5.67 min Scan# 740
Delta R.T. 0.09 min
Lab File: VX005926.D
Acq: 13 Nov 2018 03:32

Tgt Ion: 56 Resp: 1845
Ion Ratio Lower Upper
56 100
69 176.8 22.6 34.0#
84 162.0 62.7 94.1#

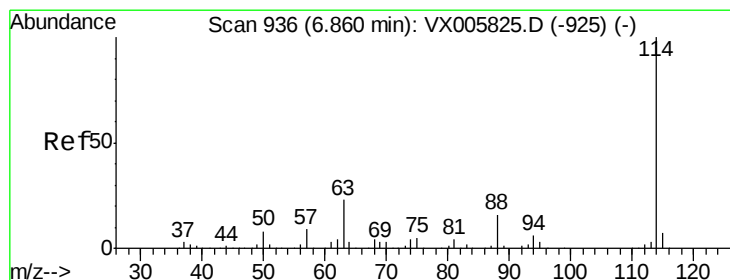
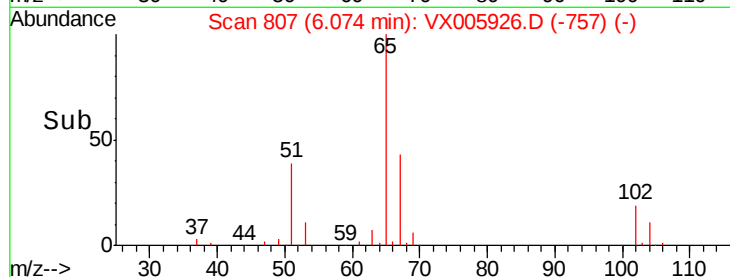
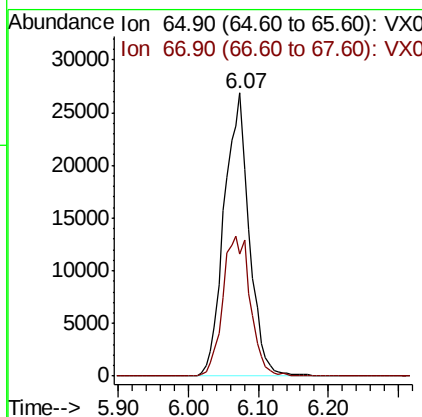
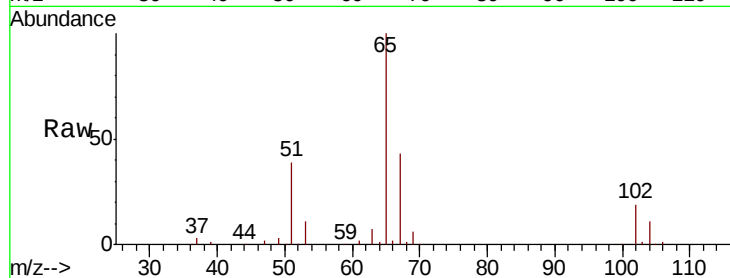




#33
 1,2-Dichloroethane-d4
 Concen: 55.576 ug/l
 RT: 6.07 min Scan# 807
 Delta R.T. 0.01 min
 Lab File: VX005926.D
 Acq: 13 Nov 2018 03:32

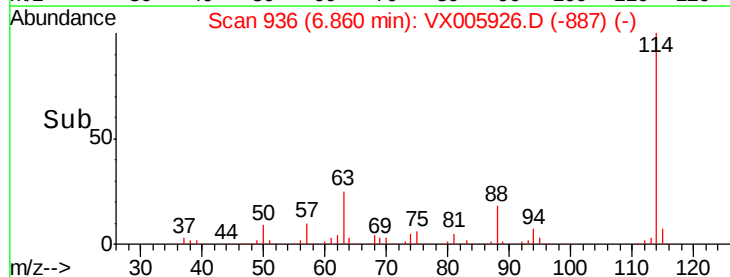
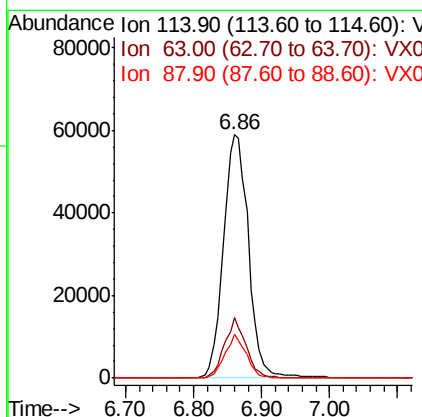
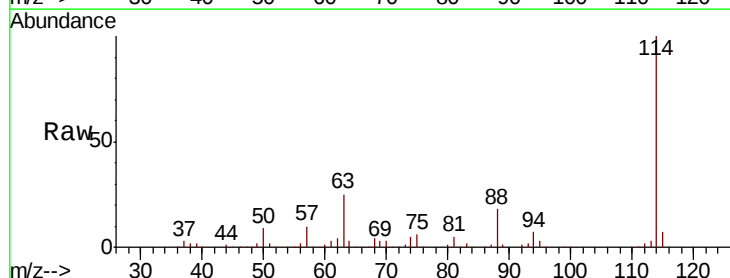
Instrument :
 MSVOA_X
 ClientSampleId :
 HD-01-110918

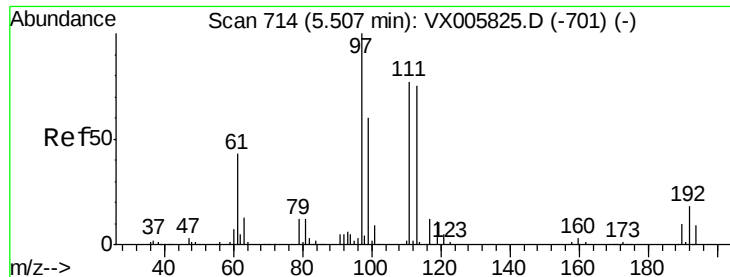
Tot Ion: 65 Resp: 66623
 Ion Ratio Lower Upper
 65 100
 67 54.5 0.0 105.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX005926.D
 Acq: 13 Nov 2018 03:32

Tgt Ion: 114 Resp: 150663
 Ion Ratio Lower Upper
 114 100
 63 25.0 0.0 42.8
 88 18.1 0.0 31.2





#35

Dibromofluoromethane

Concen: 51.548 ug/l

RT: 5.51 min Scan# 714

Delta R.T. -0.00 min

Lab File: VX005926.D

Acq: 13 Nov 2018 03:32

Instrument :

MSVOA_X

ClientSampleId :

HD-01-110918

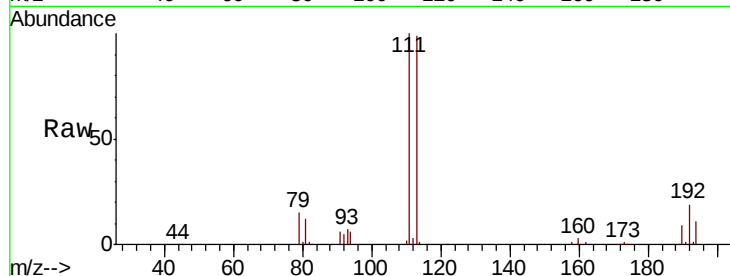
Tot Ion:113 Resp: 52823

Ion Ratio Lower Upper

113 100

111 102.7 82.3 123.5

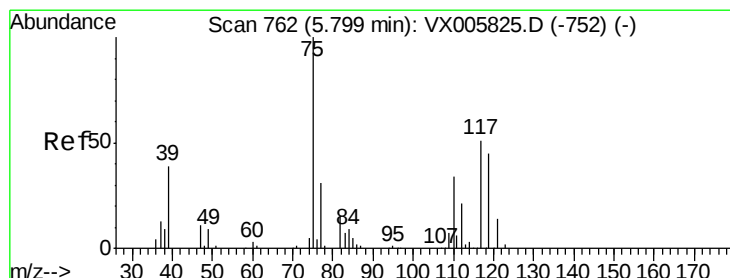
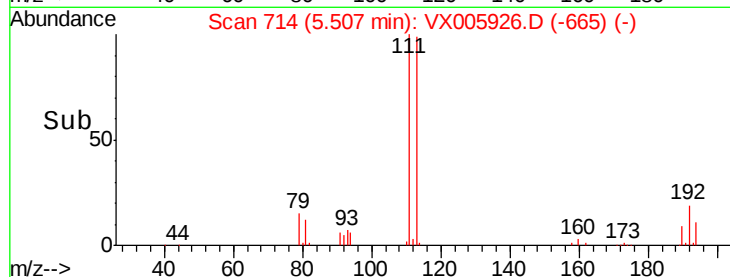
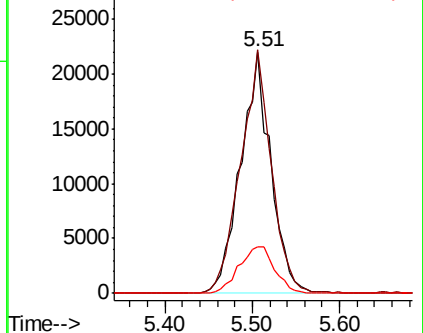
192 22.8 17.9 26.9



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.713 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX005926.D

Acq: 13 Nov 2018 03:32

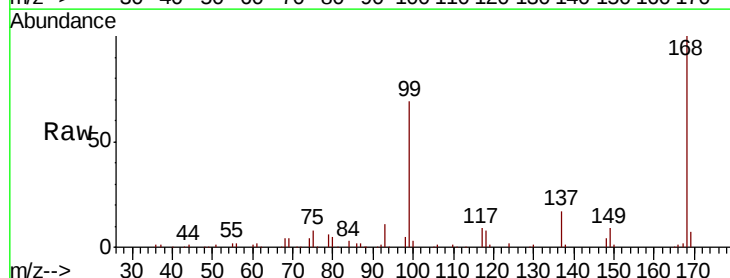
Tgt Ion: 75 Resp: 6845

Ion Ratio Lower Upper

75 100

110 9.3 17.4 52.2#

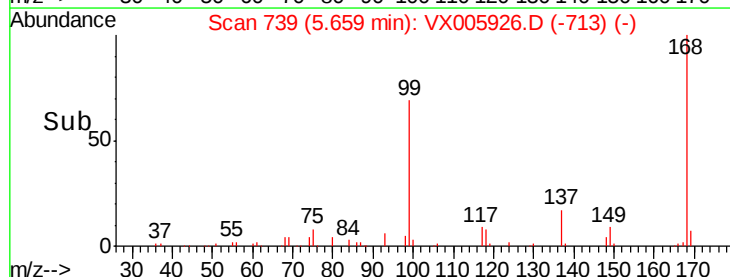
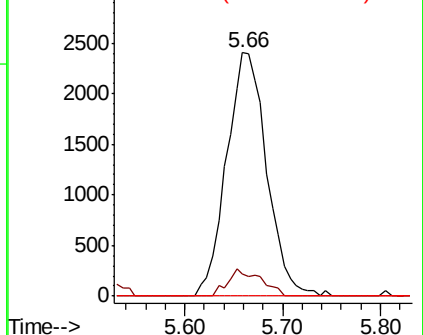
77 0.0 25.8 38.6#

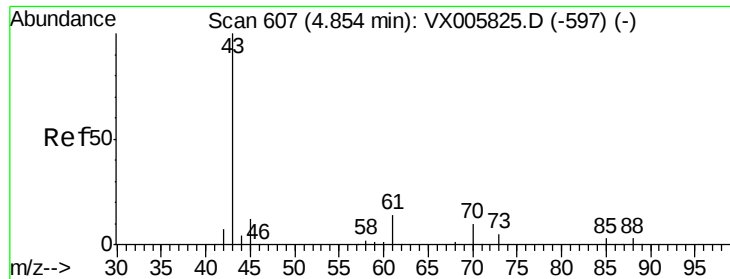


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

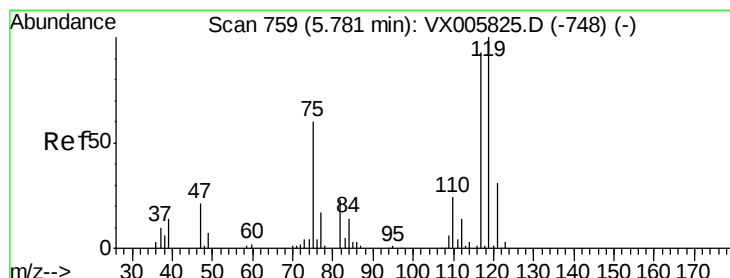
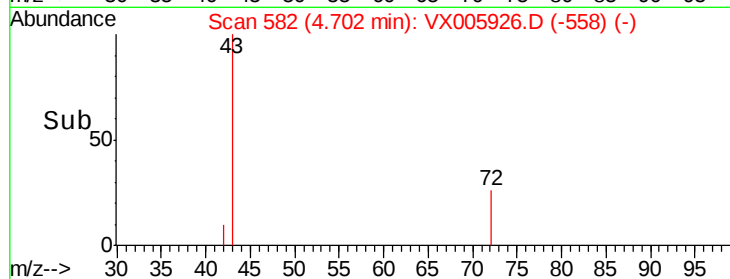
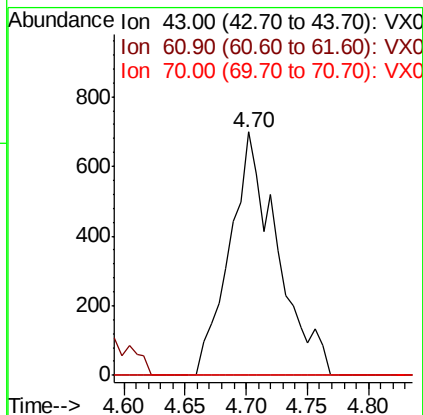
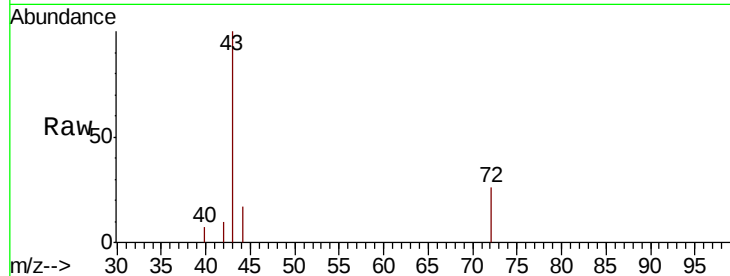




#37
Ethyl Acetate
Concen: 0.984 ug/l
RT: 4.70 min Scan# 582
Delta R.T. -0.15 min
Lab File: VX005926.D
Acq: 13 Nov 2018 03:32

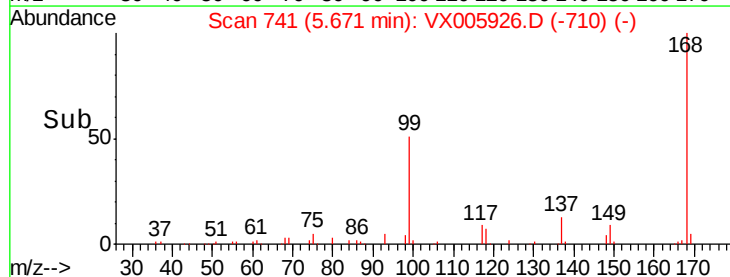
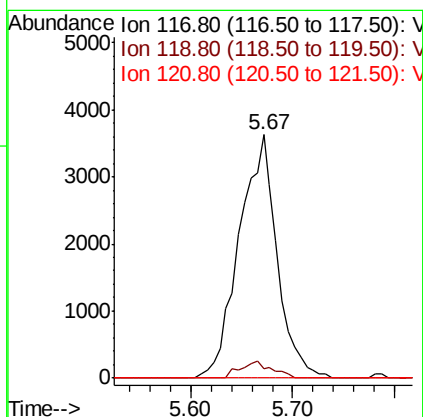
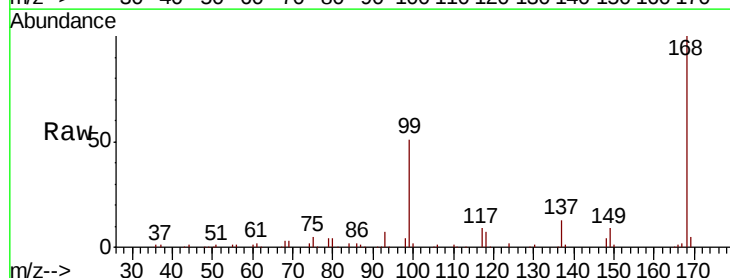
Instrument :
MSVOA_X
ClientSampleId :
HD-01-110918

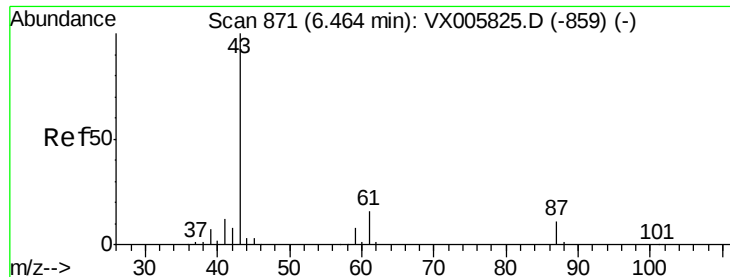
Tot Ion: 43 Resp: 1880
Ion Ratio Lower Upper
43 100
61 0.0 10.8 16.2#
70 0.0 7.8 11.8#



#38
Carbon Tetrachloride
Concen: 6.435 ug/l
RT: 5.67 min Scan# 741
Delta R.T. -0.11 min
Lab File: VX005926.D
Acq: 13 Nov 2018 03:32

Tgt Ion: 117 Resp: 9357
Ion Ratio Lower Upper
117 100
119 4.1 78.1 117.1#
121 0.0 24.6 36.8#



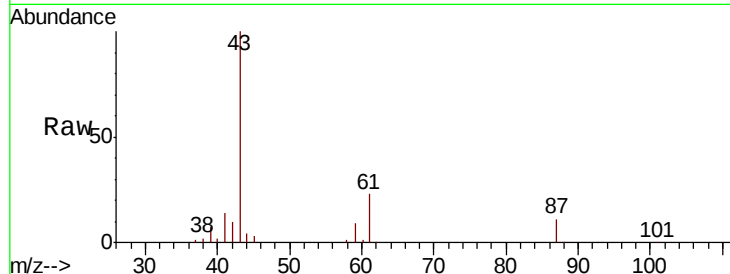


#43

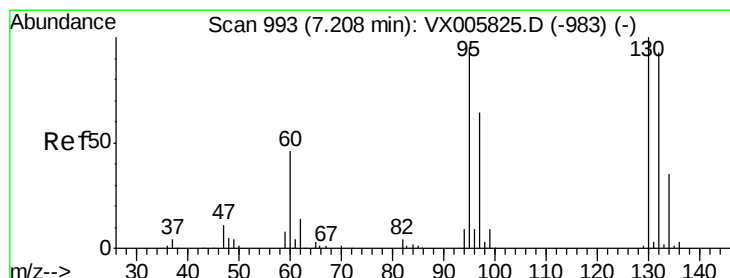
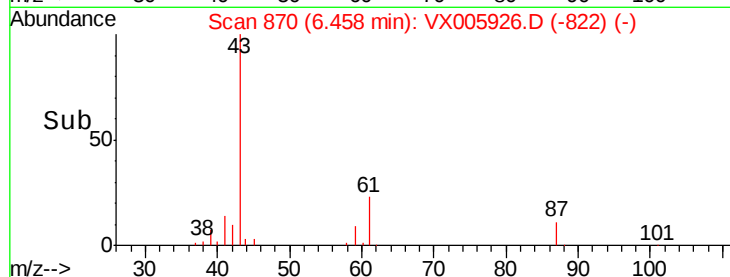
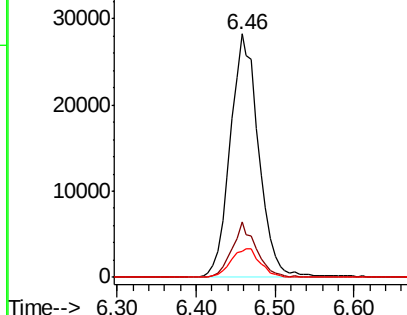
Isopropyl Acetate
 Concen: 25.581 ug/l
 RT: 6.46 min Scan# 870
 Delta R.T. -0.01 min
 Lab File: VX005926.D
 Acq: 13 Nov 2018 03:32

Instrument :
 MSVOA_X
 ClientSampleId :
 HD-01-110918

Tot Ion: 43 Resp: 70797
 Ion Ratio Lower Upper
 43 100
 61 19.4 14.6 22.0
 87 12.2 9.6 14.4



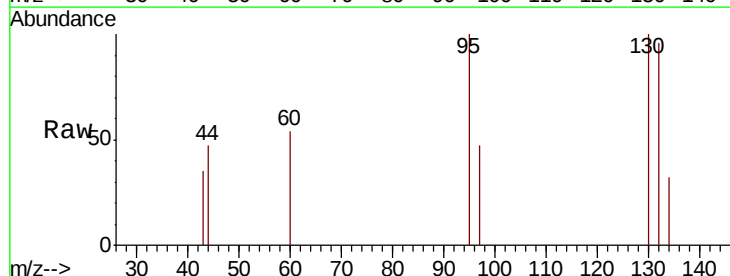
Abundance Ion 43.00 (42.70 to 43.70): VX0
 Ion 61.00 (60.70 to 61.70): VX0
 Ion 87.00 (86.70 to 87.70): VX0



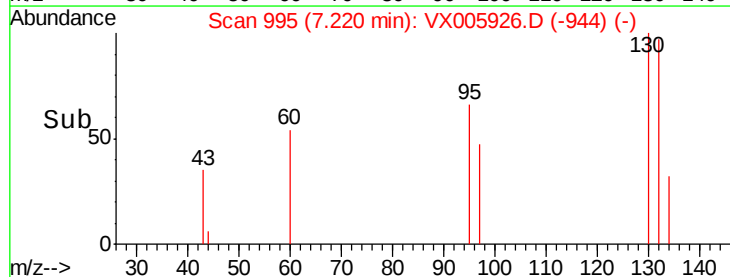
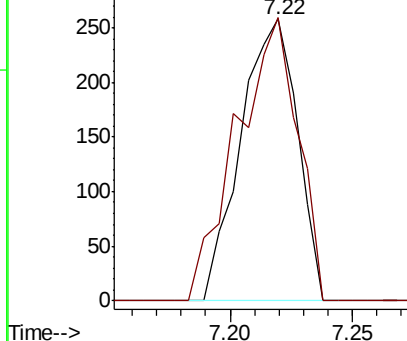
#44

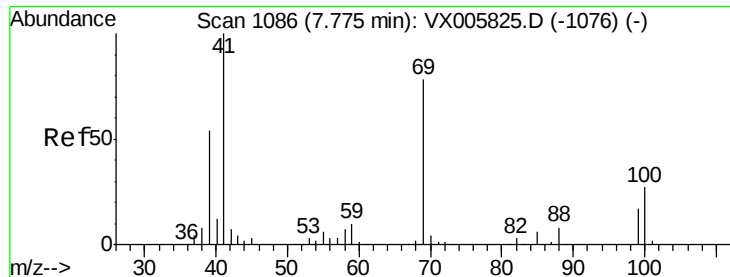
Trichloroethene
 Concen: 0.387 ug/l
 RT: 7.22 min Scan# 995
 Delta R.T. 0.01 min
 Lab File: VX005926.D
 Acq: 13 Nov 2018 03:32

Tgt Ion: 130 Resp: 416
 Ion Ratio Lower Upper
 130 100
 95 100.4 0.0 194.2



Abundance Ion 129.80 (129.50 to 130.50): V
 Ion 94.90 (94.60 to 95.60): VX0





#48

Methyl methacrylate

Concen: 2.129 ug/l

RT: 7.68 min Scan# 1071

Delta R.T. -0.09 min

Lab File: VX005926.D

Acq: 13 Nov 2018 03:32

Instrument :

MSVOA_X

ClientSampleId :

HD-01-110918

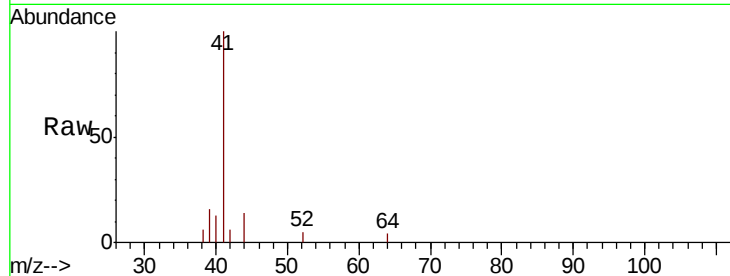
Tot Ion: 41 Resp: 2646

Ion Ratio Lower Upper

41 100

69 0.0 63.2 94.8#

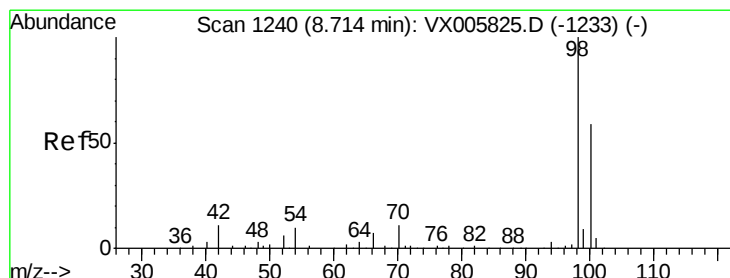
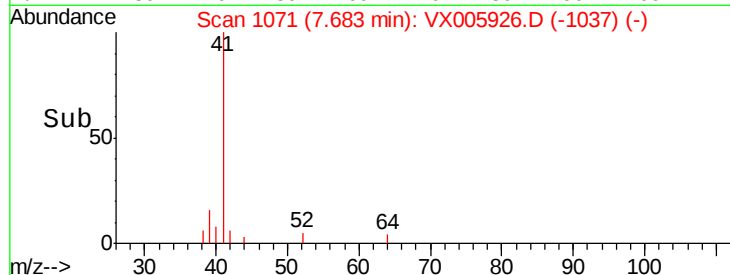
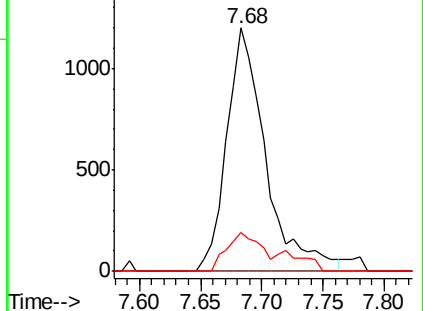
39 13.9 42.2 63.2#



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: 52.051 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX005926.D

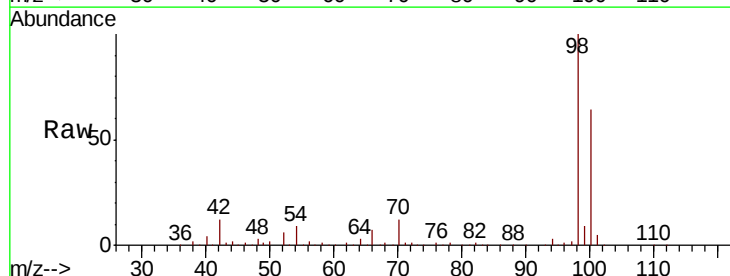
Acq: 13 Nov 2018 03:32

Tgt Ion: 98 Resp: 177328

Ion Ratio Lower Upper

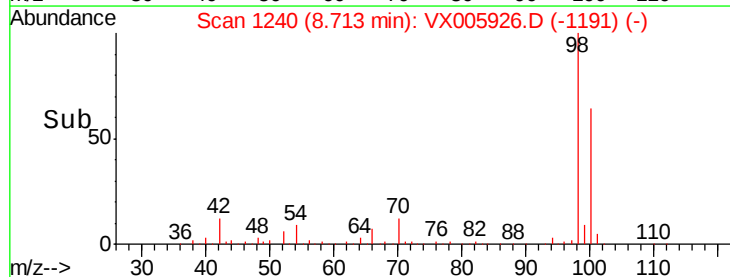
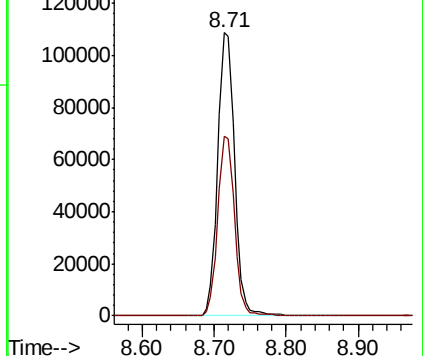
98 100

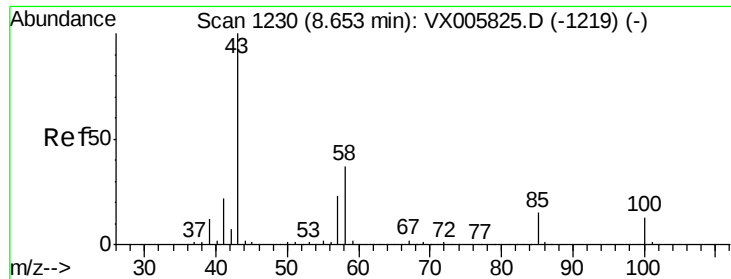
100 63.2 51.3 76.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

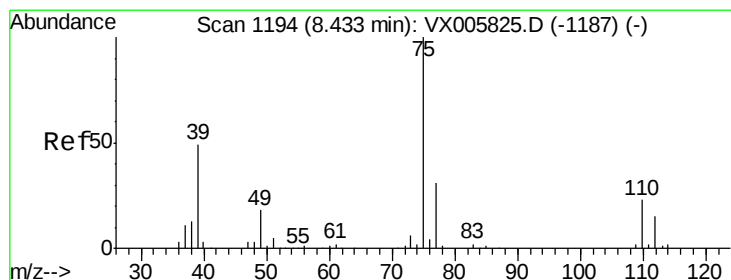
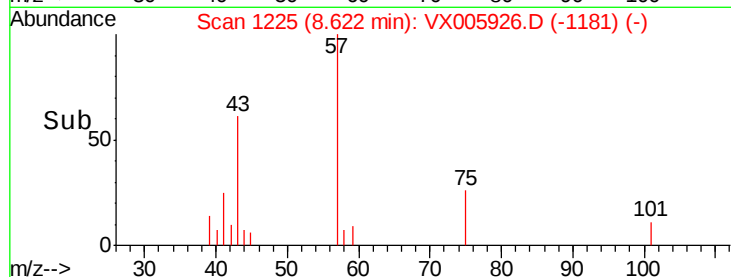
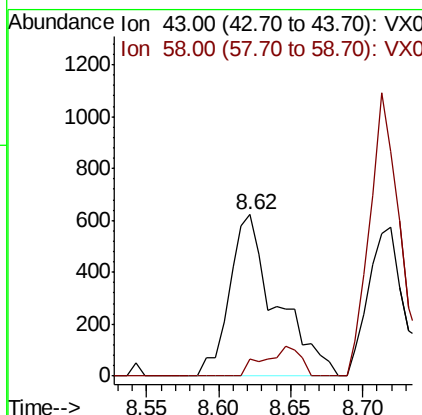
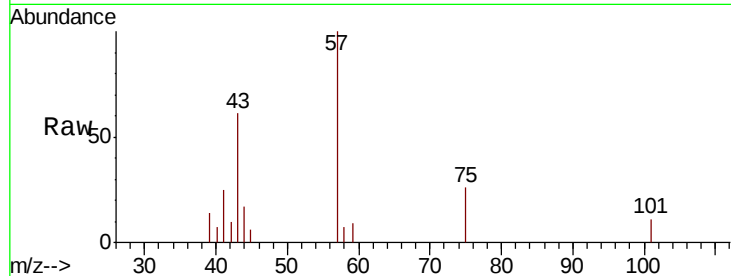




#51
4-Methyl-2-Pentanone
Concen: 0.811 ug/l
RT: 8.62 min Scan# 1225
Delta R.T. -0.03 min
Lab File: VX005926.D
Acq: 13 Nov 2018 03:32

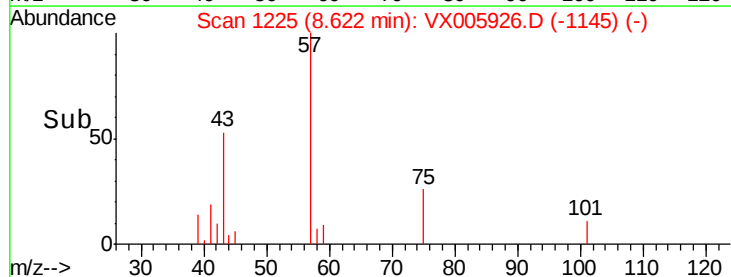
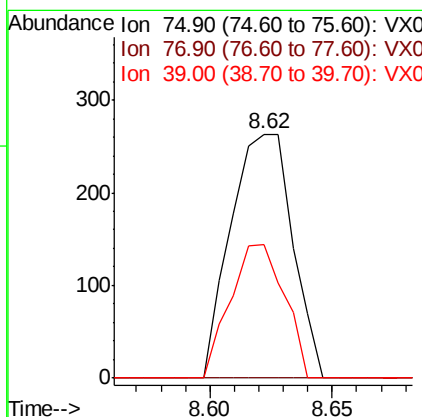
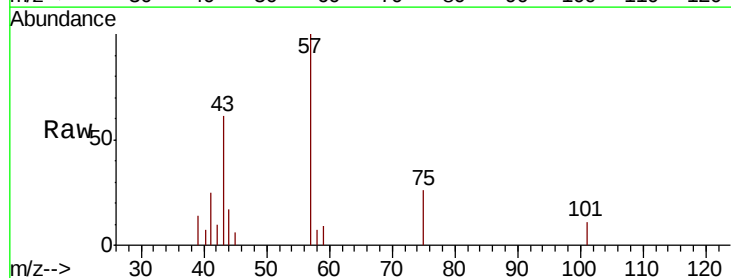
Instrument :
MSVOA_X
ClientSampleId :
HD-01-110918

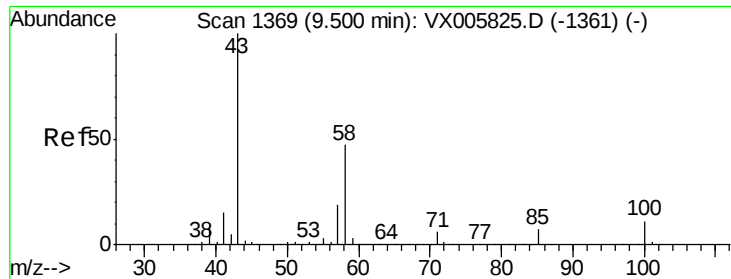
Tot Ion: 43 Resp: 1415
Ion Ratio Lower Upper
43 100
58 0.0 29.7 44.5#



#54
cis-1,3-Dichloropropene
Concen: 0.317 ug/l
RT: 8.62 min Scan# 1225
Delta R.T. 0.19 min
Lab File: VX005926.D
Acq: 13 Nov 2018 03:32

Tgt Ion: 75 Resp: 464
Ion Ratio Lower Upper
75 100
77 0.0 25.2 37.8#
39 54.8 38.2 57.2

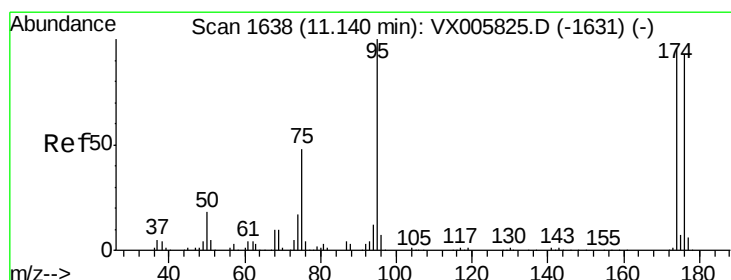
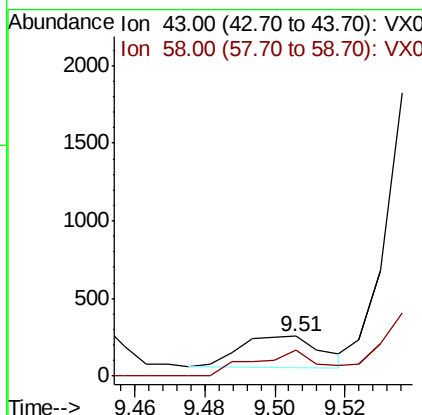
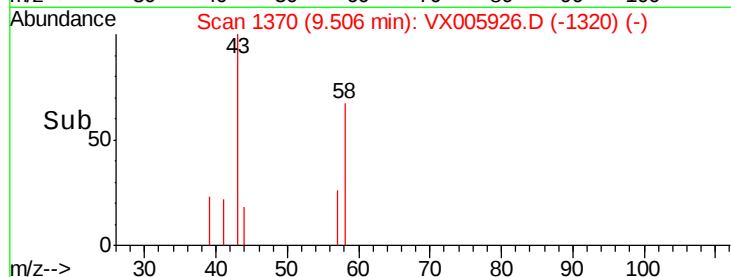
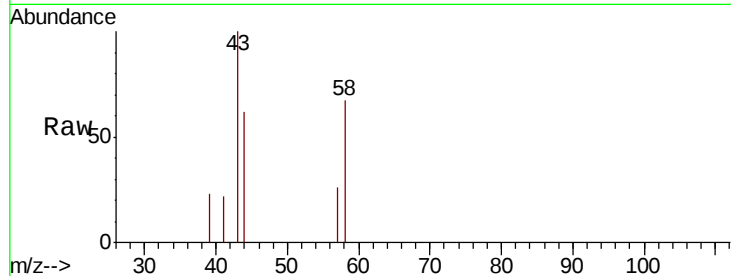




#59
2-Hexanone
Concen: 0.213 ug/l
RT: 9.51 min Scan# 1370
Delta R.T. 0.01 min
Lab File: VX005926.D
Acq: 13 Nov 2018 03:32

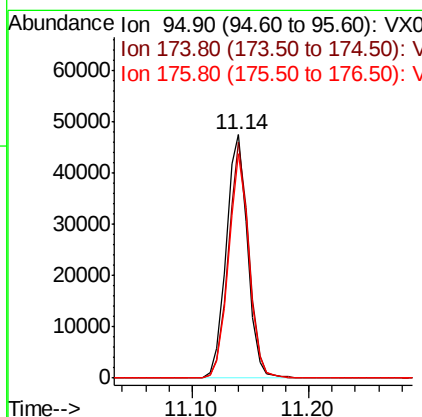
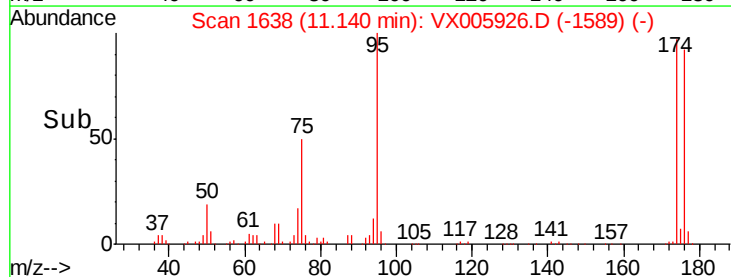
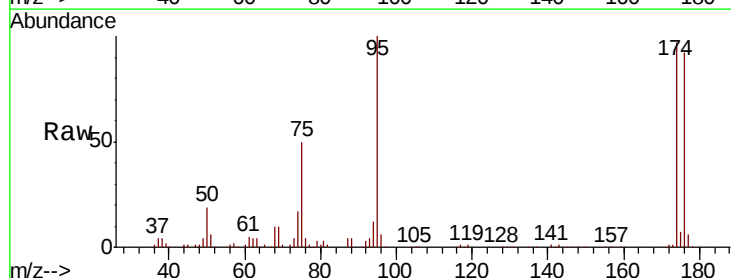
Instrument :
MSVOA_X
ClientSampleId :
HD-01-110918

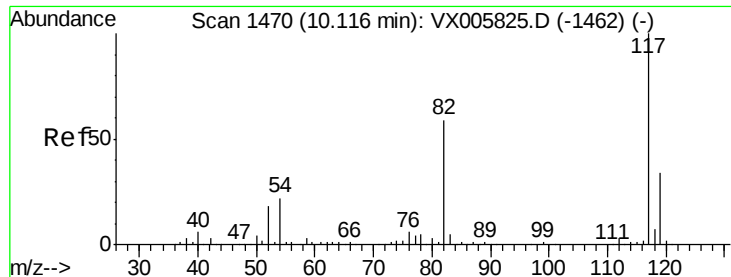
Tot Ion: 43 Resp: 328
Ion Ratio Lower Upper
43 100
58 67.7 25.9 77.8



#62
4-Bromofluorobenzene
Concen: 49.138 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.00 min
Lab File: VX005926.D
Acq: 13 Nov 2018 03:32

Tgt Ion: 95 Resp: 60188
Ion Ratio Lower Upper
95 100
174 93.8 0.0 184.4
176 89.2 0.0 177.4

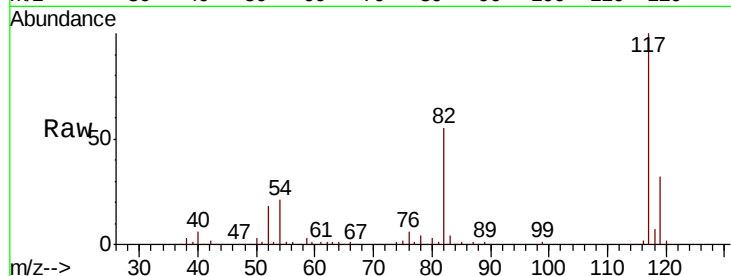




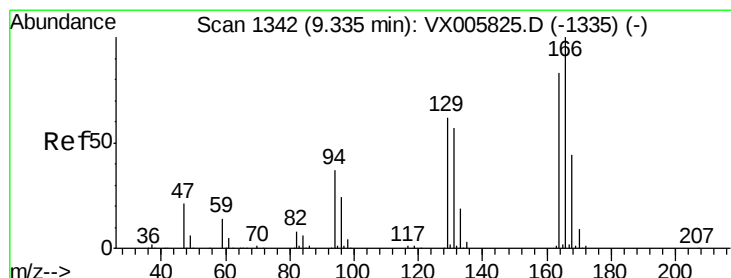
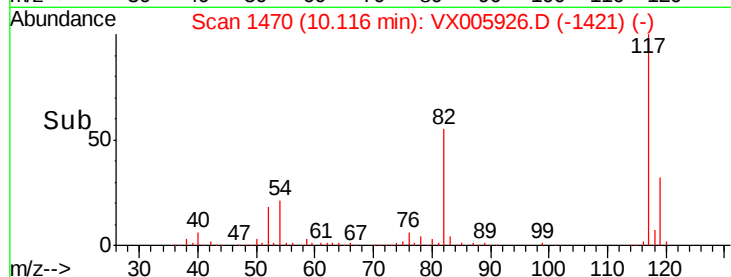
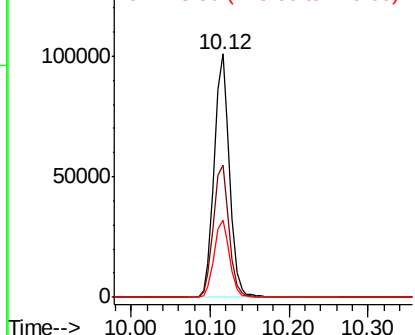
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX005926.D
Acq: 13 Nov 2018 03:32

Instrument :
MSVOA_X
ClientSampled :
HD-01-110918

Tot Ion:117 Resp: 136778
Ion Ratio Lower Upper
117 100
82 54.5 44.1 66.1
119 31.7 26.2 39.2

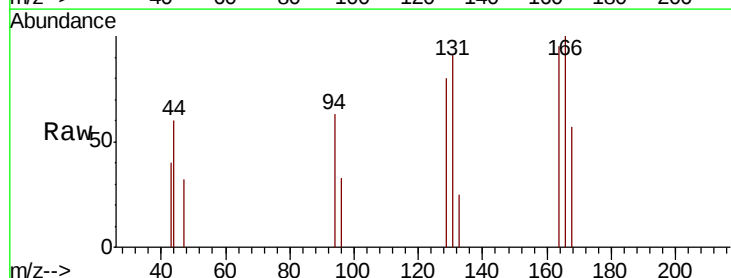


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

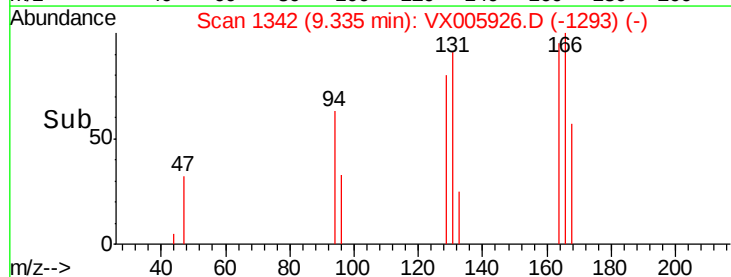
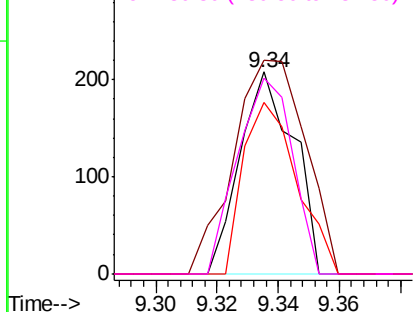


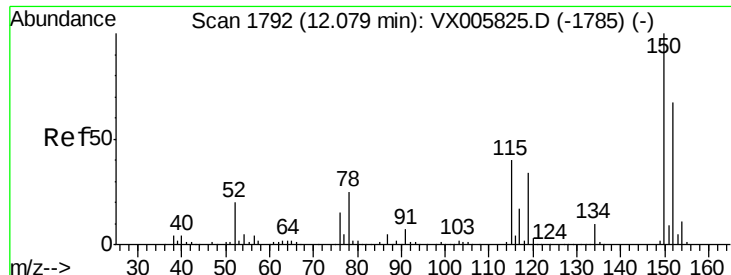
#64
Tetrachloroethene
Concen: 0.217 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VX005926.D
Acq: 13 Nov 2018 03:32

Tgt Ion:164 Resp: 253
Ion Ratio Lower Upper
164 100
166 105.8 101.9 152.9
129 85.1 72.6 109.0
131 96.6 71.1 106.7



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): 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: VX005926.D

Acq: 13 Nov 2018 03:32

Instrument :

MSVOA_X

ClientSampled :

HD-01-110918

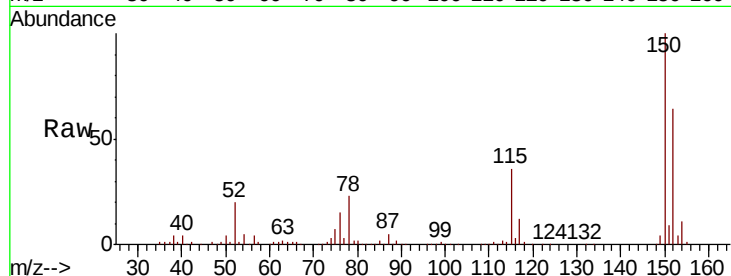
Tot Ion:152 Resp: 65524

Ion Ratio Lower Upper

152 100

115 55.6 39.4 118.1

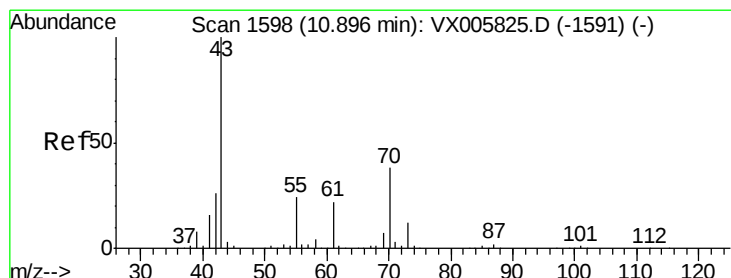
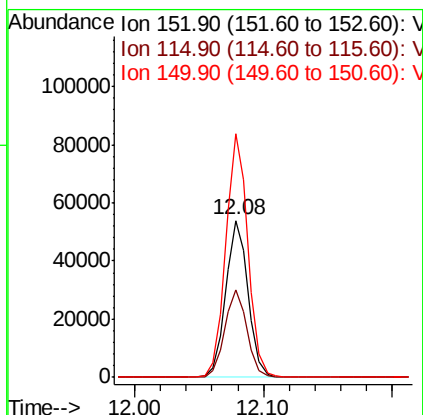
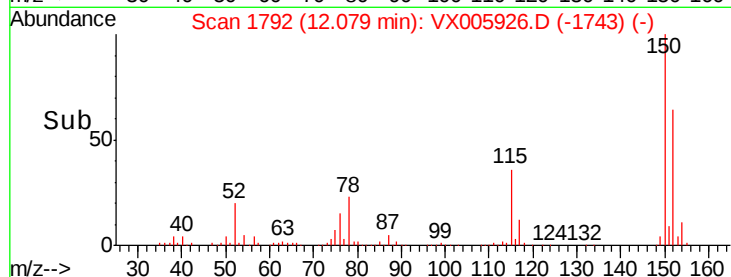
150 154.2 0.0 346.4



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



#74

N-ethyl acetate

Concen: 1.260 ug/l

RT: 10.88 min Scan# 1595

Delta R.T. -0.02 min

Lab File: VX005926.D

Acq: 13 Nov 2018 03:32

Tgt Ion: 43 Resp: 20

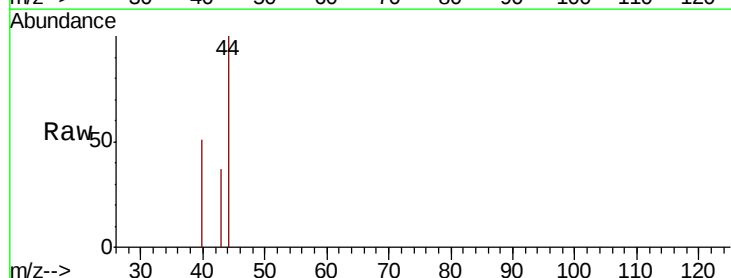
Ion Ratio Lower Upper

43 100

70 0.0 31.6 47.4#

55 0.0 19.7 29.5#

61 0.0 18.3 27.5#

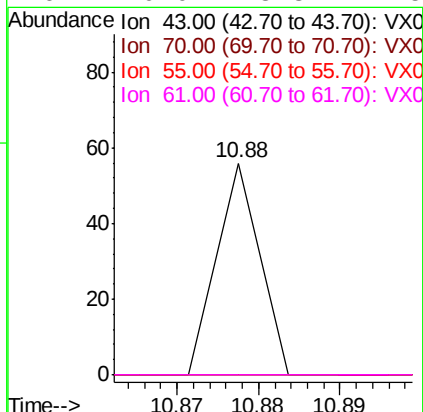
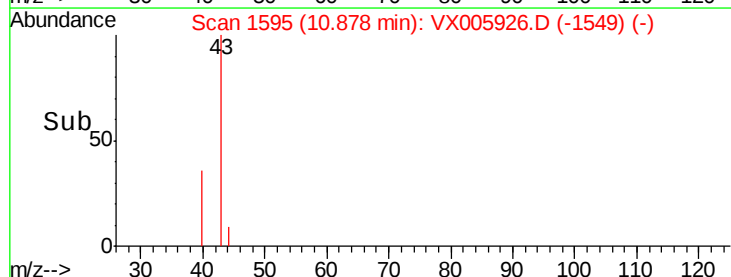


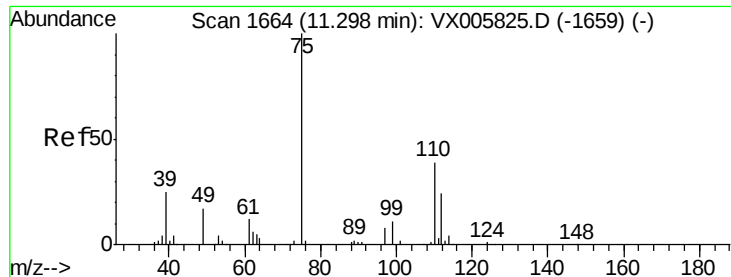
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0





#76

1,2,3-Trichloropropane

Concen: 22.917 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005926.D

Acq: 13 Nov 2018 03:32

Instrument :

MSVOA_X

ClientSampleId :

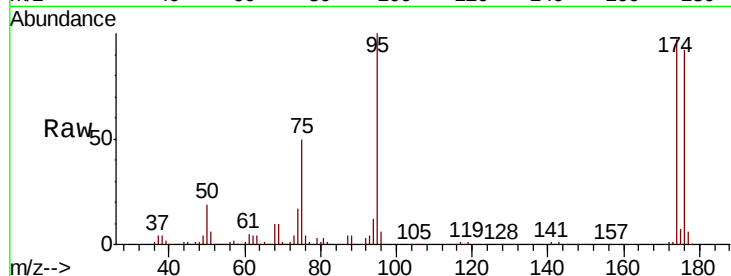
HD-01-110918

Tot Ion: 75 Resp: 30576

Ion Ratio Lower Upper

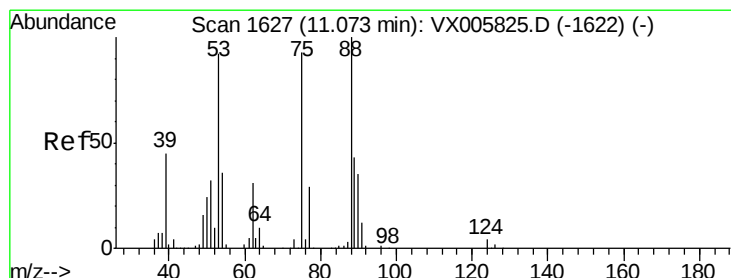
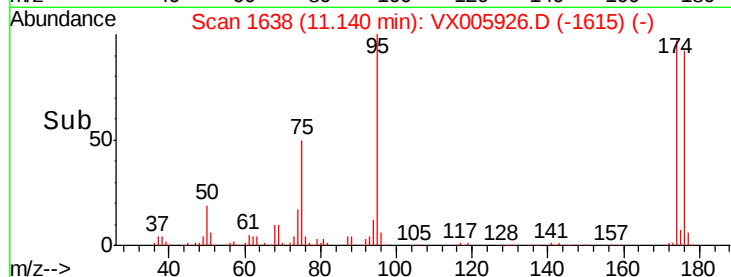
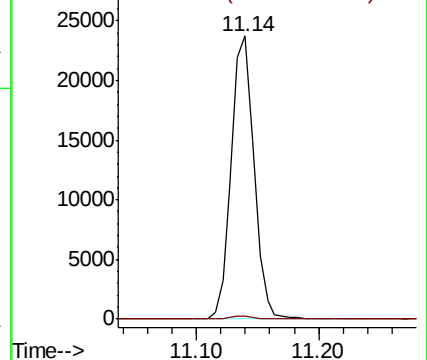
75 100

77 1.2 20.5 61.6#



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: 73.040 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX005926.D

Acq: 13 Nov 2018 03:32

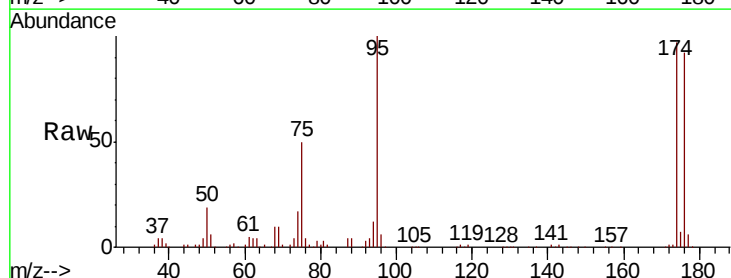
Tgt Ion: 75 Resp: 30576

Ion Ratio Lower Upper

75 100

53 0.0 80.2 120.2#

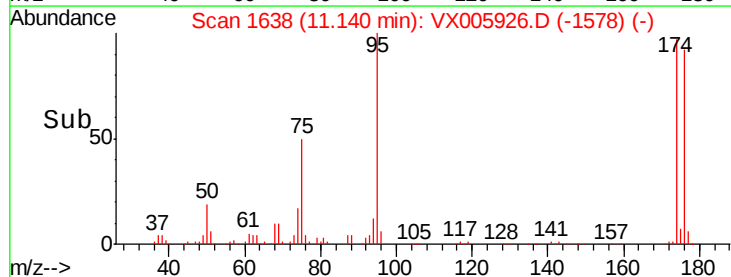
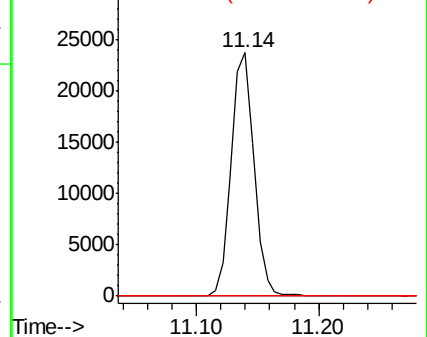
89 0.0 39.8 59.8#

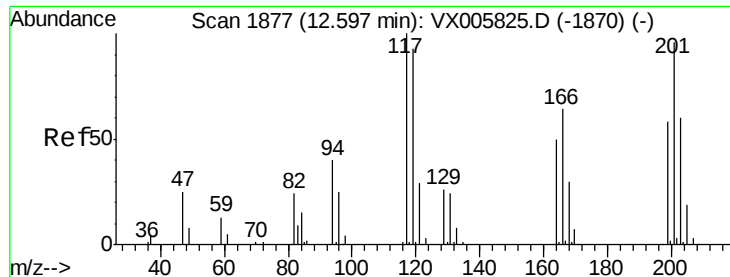


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#90

Hexachloroethane

Concen: 0.278 ug/l

RT: 12.76 min Scan# 1903

Delta R.T. 0.16 min

Lab File: VX005926.D

Acq: 13 Nov 2018 03:32

Instrument :

MSVOA_X

ClientSampleId :

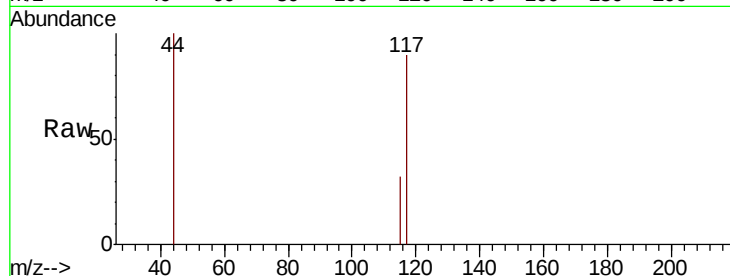
HD-01-110918

Tot Ion:117 Resp: 164

Ion Ratio Lower Upper

117 100

201 0.0 47.9 143.6#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

12.76

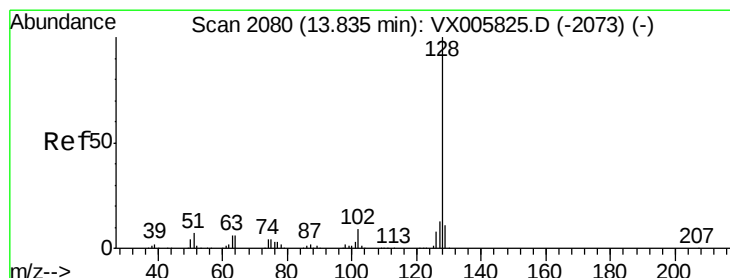
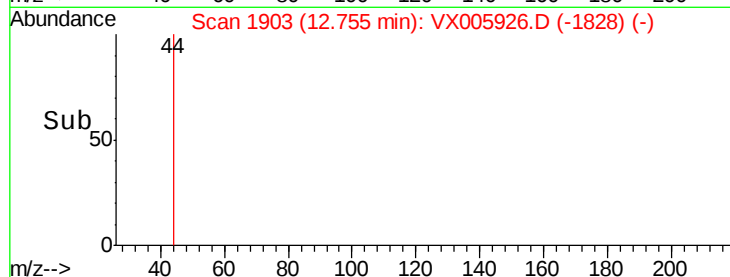
150

100

50

0

Time-->



#95

Naphthalene

Concen: 4.494 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX005926.D

Acq: 13 Nov 2018 03:32

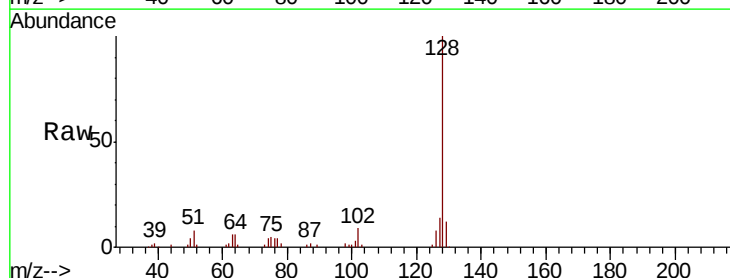
Tgt Ion:128 Resp: 16012

Ion Ratio Lower Upper

128 100

127 13.2 10.4 15.6

129 11.1 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

15000

10000

5000

0

Time-->

