

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX111218\
 Data File : VX005930.D
 Acq On : 13 Nov 2018 05:18
 Operator : JC/MD
 Sample : J5894-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 DW-6

Quant Time: Nov 13 06:57:01 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	98373	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	140294	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	126301	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	60682	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	61127	54.05	ug/l	0.00
Spiked Amount			Recovery	=	108.10%	
35) Dibromofluoromethane	5.51	113	47425	49.70	ug/l	0.00
Spiked Amount			Recovery	=	99.40%	
50) Toluene-d8	8.71	98	166881	52.60	ug/l	0.00
Spiked Amount			Recovery	=	105.20%	
62) 4-Bromofluorobenzene	11.14	95	55973	49.07	ug/l	0.00
Spiked Amount			Recovery	=	98.14%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.72	64	251	0.360	ug/l #	42
11) Tert butyl alcohol	3.02	59	2171	6.701	ug/l #	74
13) Acrolein	2.30	56	91	19.708	ug/l #	14
16) Acetone	2.45	43	14685	24.117	ug/l	94
17) Carbon Disulfide	2.57	76	1122	0.433	ug/l #	88
18) Methyl Acetate	2.78	43	5198	1.754	ug/l	97
20) Methylene Chloride	2.85	84	5644	5.643	ug/l	96
25) 2-Butanone	4.70	43	6226	6.504	ug/l	97
29) Tetrahydrofuran	5.17	42	332	0.540	ug/l #	61
31) Cyclohexane	5.66	56	1792	1.137	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	6797	5.026	ug/l #	50
37) Ethyl Acetate	4.70	43	6226	3.501	ug/l #	69
38) Carbon Tetrachloride	5.67	117	8700	6.426	ug/l #	15
41) Methacrylonitrile	5.17	41	208	0.216	ug/l #	41
43) Isopropyl Acetate	6.46	43	65753	25.514	ug/l	100
48) Methyl methacrylate	7.68	41	2833	2.448	ug/l #	23
51) 4-Methyl-2-Pentanone	8.65	43	4398	2.708	ug/l	88
54) cis-1,3-Dichloropropene	8.62	75	304	0.223	ug/l #	62
59) 2-Hexanone	9.49	43	490	0.342	ug/l	97
74) N-amyl acetate	10.91	43	41	1.271	ug/l #	44
76) 1,2,3-Trichloropropane	11.14	75	28498	23.064	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.14	75	28498	73.508	ug/l #	9
84) 1,2,4-Trimethylbenzene	11.80	105	347	Below Cal		98
95) Naphthalene	13.83	128	21812	6.056	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX005930.D

Acq: 13 Nov 2018 05:18

Instrument :

MSVOA_X

ClientSampled :

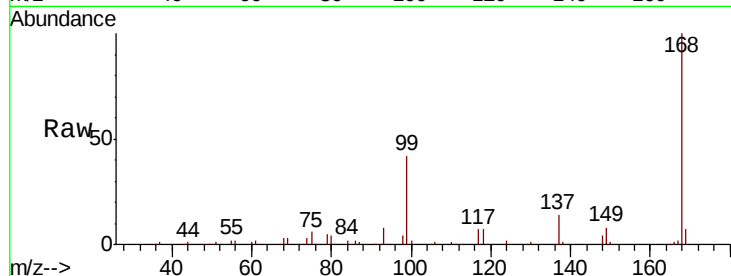
DW-6

Tot Ion:168 Resp: 98373

Ion Ratio Lower Upper

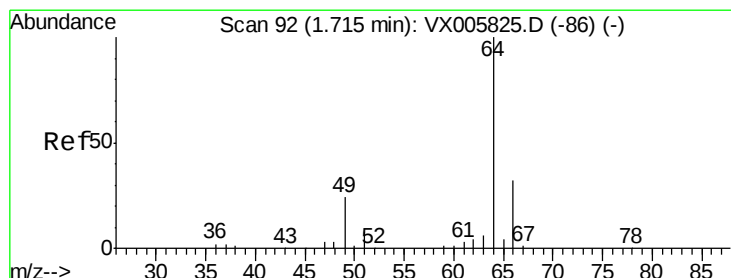
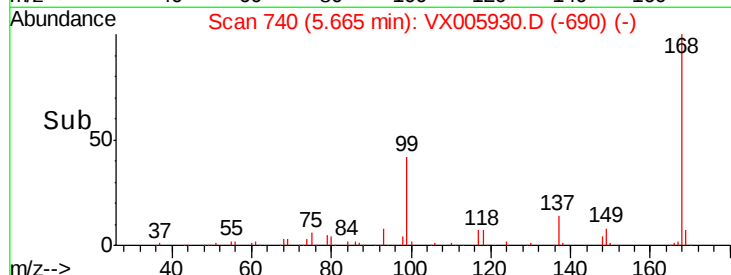
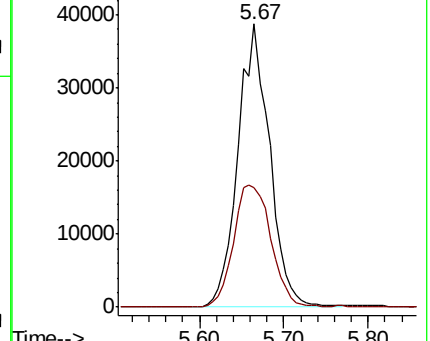
168 100

99 42.3 40.7 61.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#6

Chloroethane

Concen: 0.360 ug/l

RT: 1.72 min Scan# 93

Delta R.T. 0.01 min

Lab File: VX005930.D

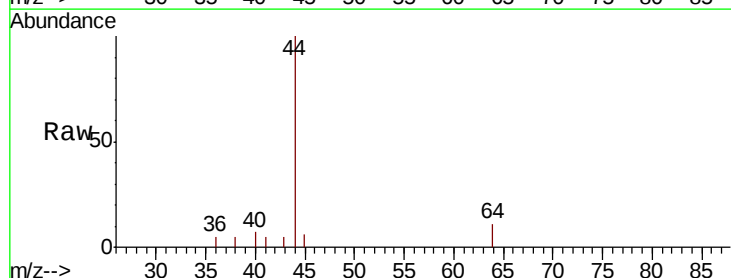
Acq: 13 Nov 2018 05:18

Tgt Ion: 64 Resp: 251

Ion Ratio Lower Upper

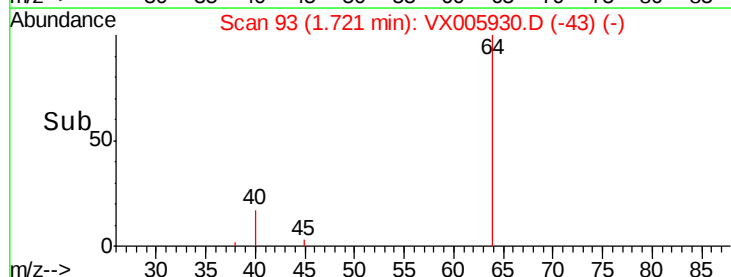
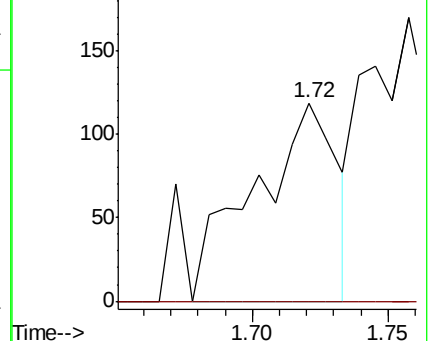
64 100

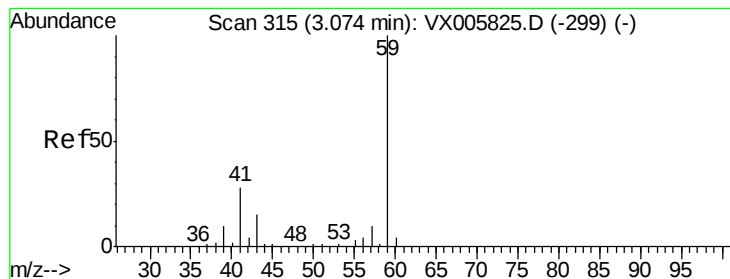
66 0.0 25.8 38.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



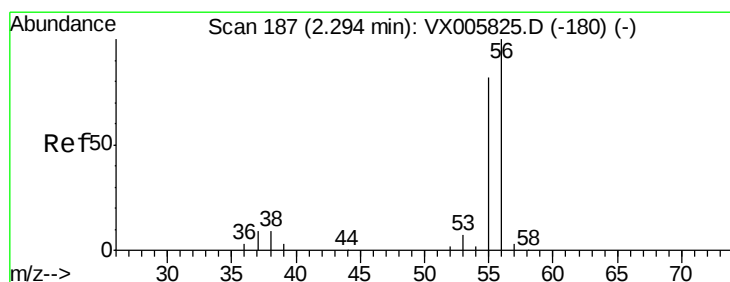
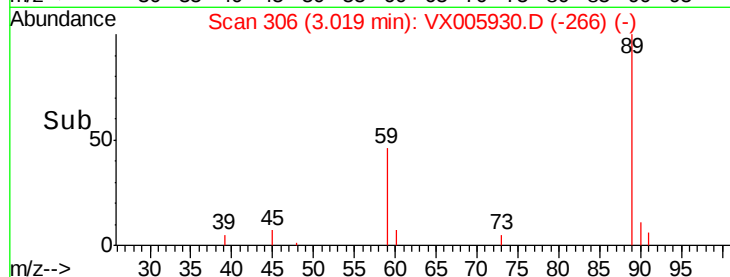
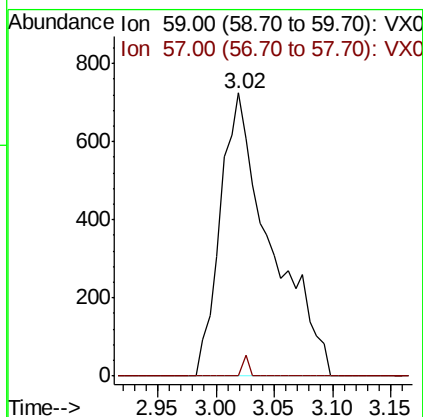
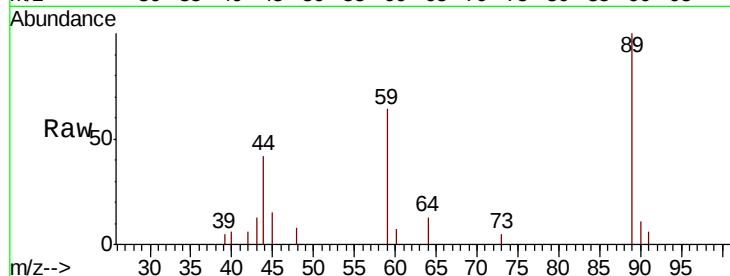


#11

Tert butyl alcohol
 Concen: 6.701 ug/l
 RT: 3.02 min Scan# 306
 Delta R.T. -0.05 min
 Lab File: VX005930.D
 Acq: 13 Nov 2018 05:18

Instrument :
 MSVOA_X
 ClientSampled :
 DW-6

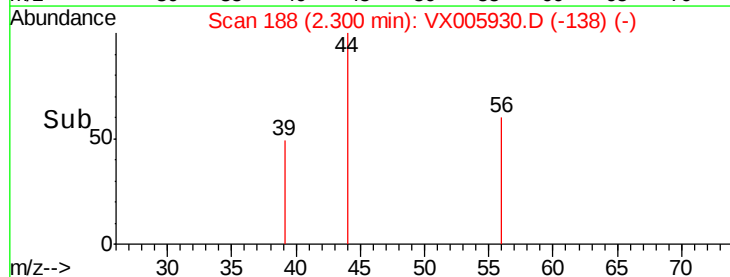
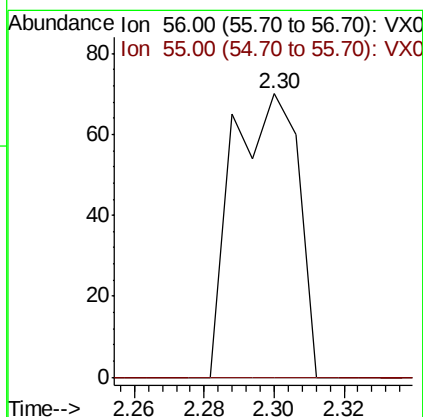
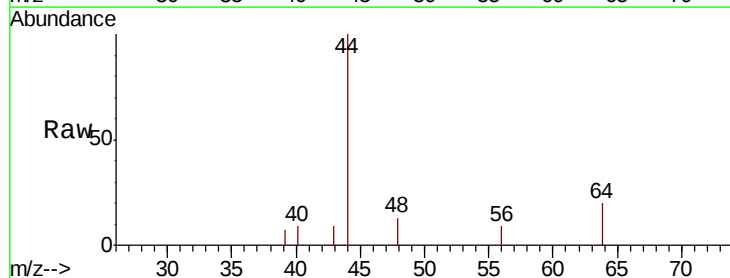
Tot Ion: 59 Resp: 2171
 Ion Ratio Lower Upper
 59 100
 57 0.9 8.5 12.7#

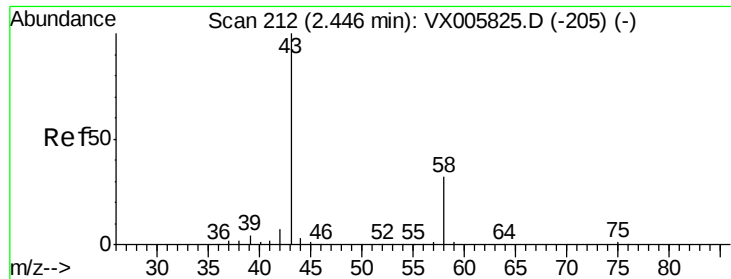


#13

Acrolein
 Concen: 19.708 ug/l
 RT: 2.30 min Scan# 188
 Delta R.T. 0.01 min
 Lab File: VX005930.D
 Acq: 13 Nov 2018 05:18

Tgt Ion: 56 Resp: 91
 Ion Ratio Lower Upper
 56 100
 55 0.0 57.3 85.9#





#16

Acetone

Concen: 24.117 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX005930.D

Acq: 13 Nov 2018 05:18

Instrument :

MSVOA_X

ClientSampled :

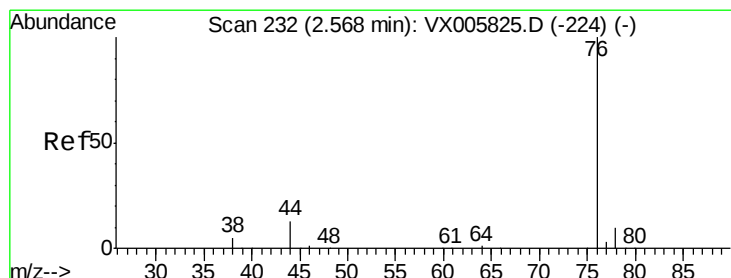
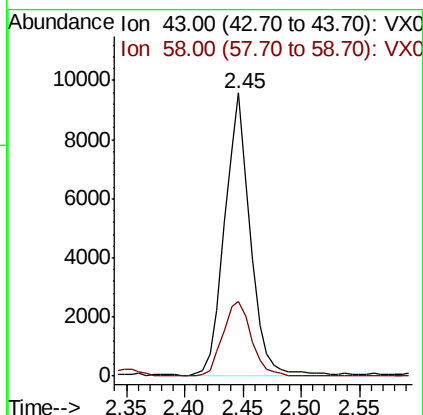
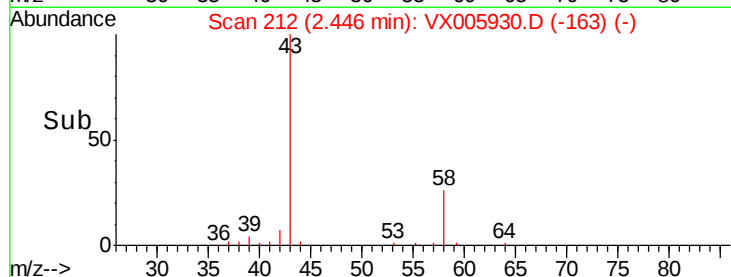
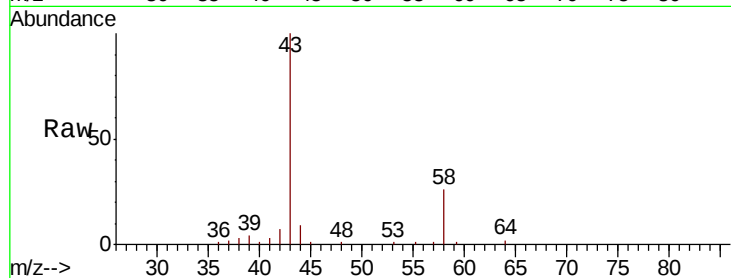
DW-6

Tot Ion: 43 Resp: 14685

Ion Ratio Lower Upper

43 100

58 26.3 23.8 35.6



#17

Carbon Disulfide

Concen: 0.433 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX005930.D

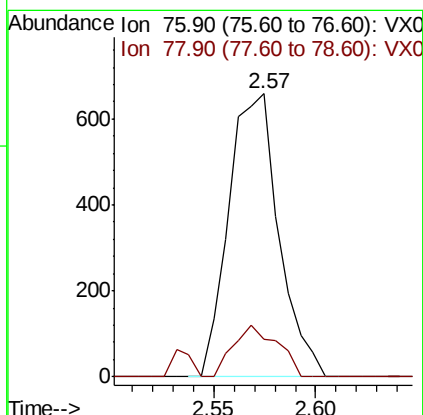
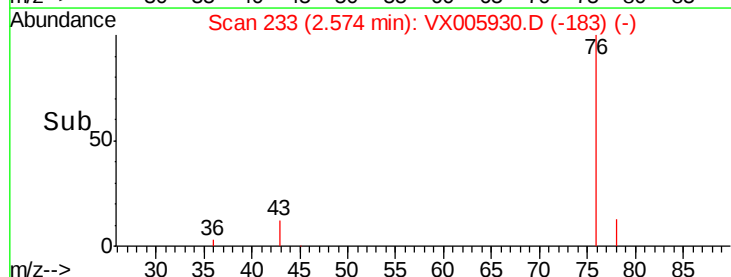
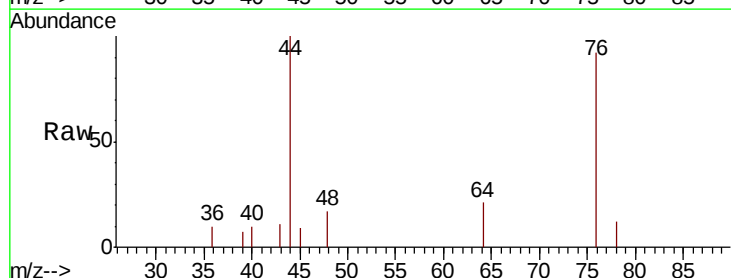
Acq: 13 Nov 2018 05:18

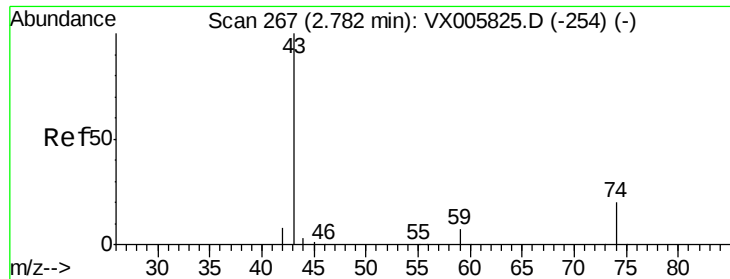
Tgt Ion: 76 Resp: 1122

Ion Ratio Lower Upper

76 100

78 13.4 7.3 10.9#

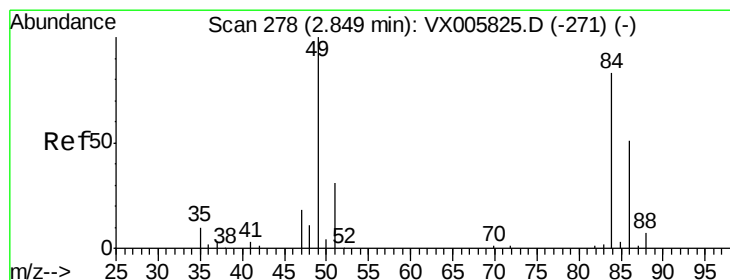
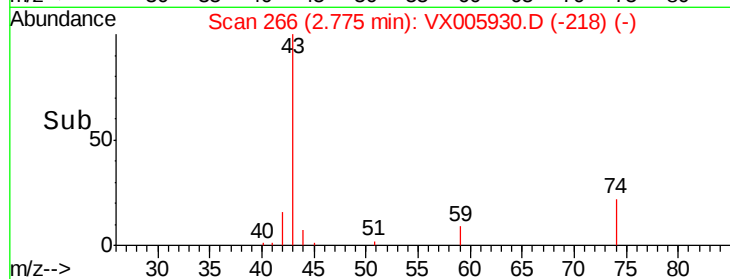
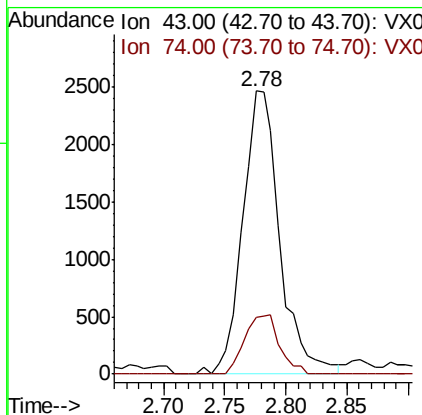
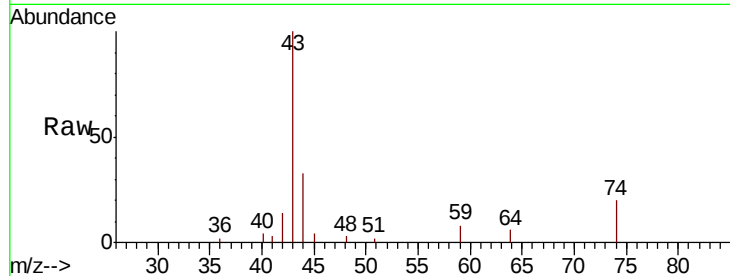




#18
Methyl Acetate
Concen: 1.754 ug/l
RT: 2.78 min Scan# 266
Delta R.T. -0.01 min
Lab File: VX005930.D
Acq: 13 Nov 2018 05:18

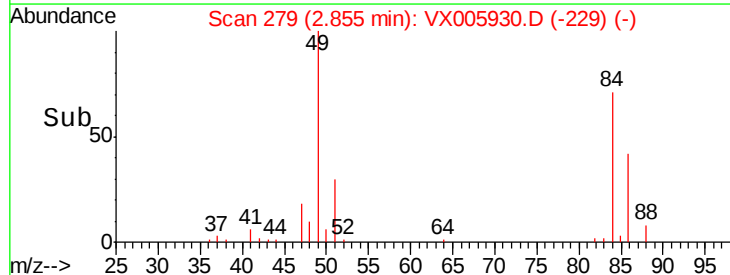
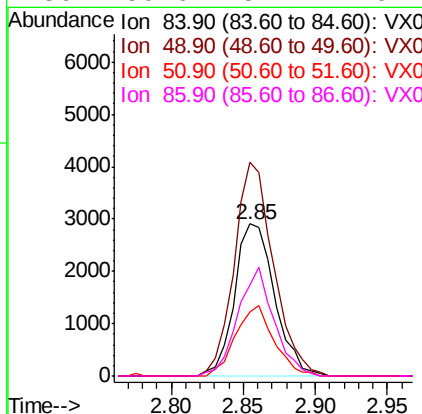
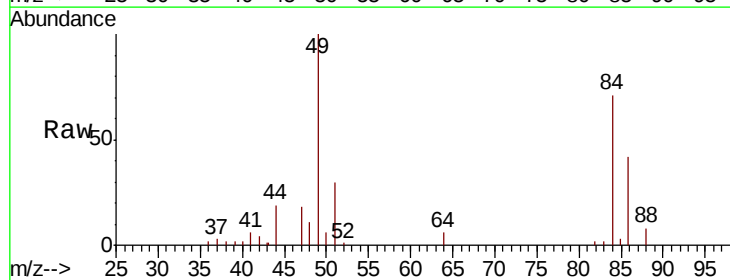
Instrument :
MSVOA_X
ClientSampled :
DW-6

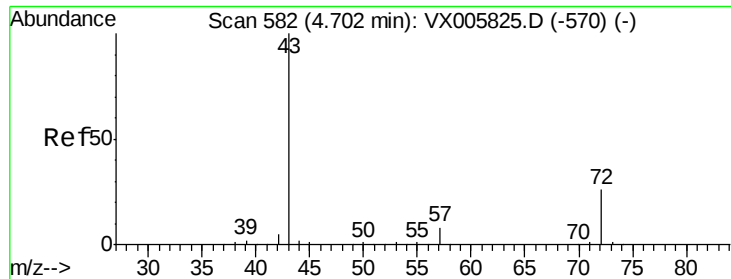
Tot Ion: 43 Resp: 5198
Ion Ratio Lower Upper
43 100
74 19.6 16.8 25.2



#20
Methylene Chloride
Concen: 5.643 ug/l
RT: 2.85 min Scan# 279
Delta R.T. 0.01 min
Lab File: VX005930.D
Acq: 13 Nov 2018 05:18

Tgt Ion: 84 Resp: 5644
Ion Ratio Lower Upper
84 100
49 140.4 109.5 164.3
51 42.3 33.3 49.9
86 59.6 52.7 79.1





#25

2-Butanone

Concen: 6.504 ug/l

RT: 4.70 min Scan# 582

Delta R.T. -0.00 min

Lab File: VX005930.D

Acq: 13 Nov 2018 05:18

Instrument :

MSVOA_X

ClientSampled :

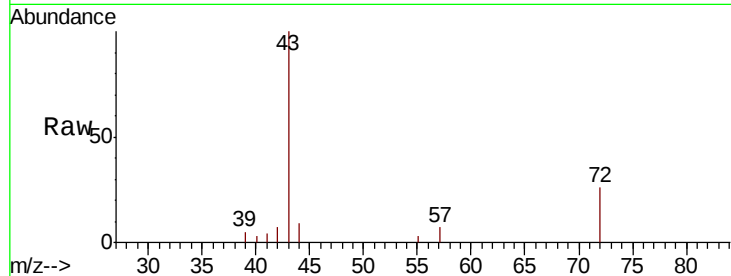
DW-6

Tot Ion: 43 Resp: 6226

Ion Ratio Lower Upper

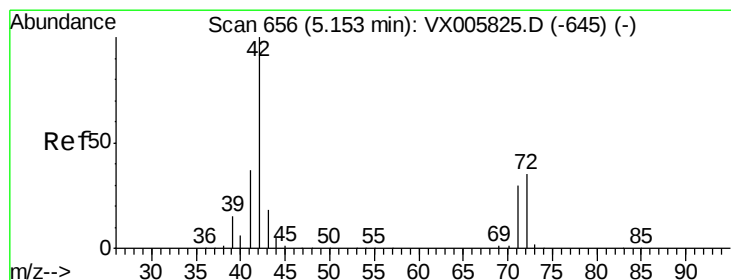
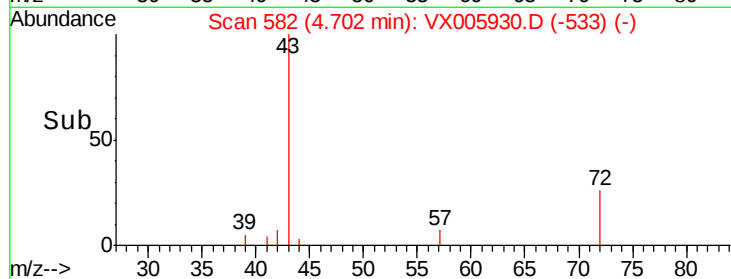
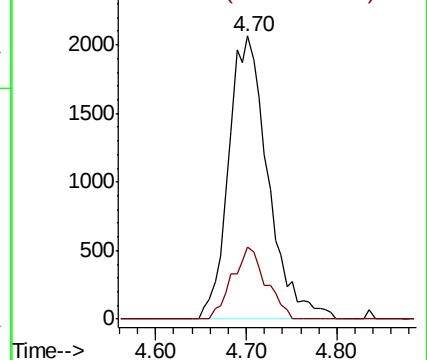
43 100

72 25.5 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: 0.540 ug/l

RT: 5.17 min Scan# 659

Delta R.T. 0.02 min

Lab File: VX005930.D

Acq: 13 Nov 2018 05:18

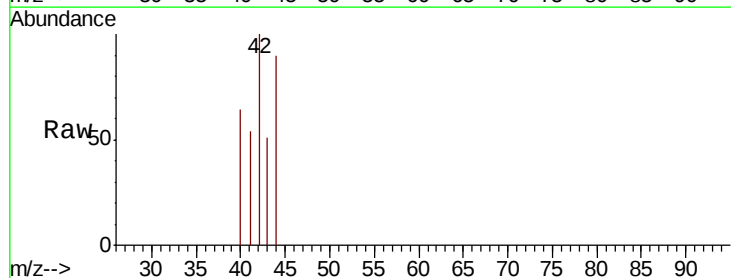
Tgt Ion: 42 Resp: 332

Ion Ratio Lower Upper

42 100

72 17.8 32.0 48.0#

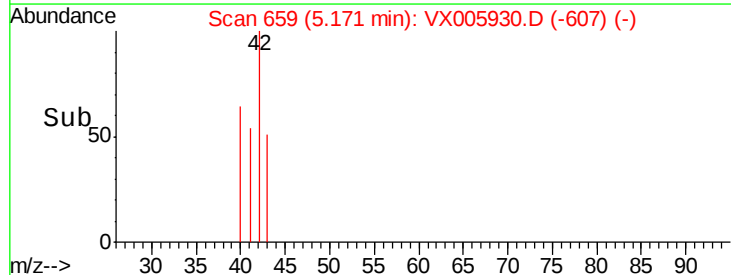
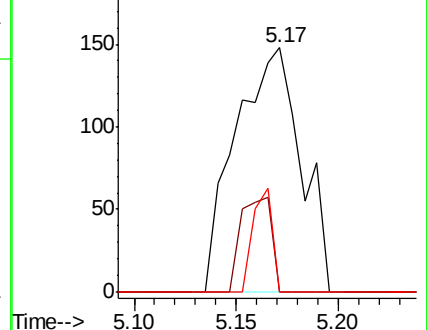
71 12.3 29.8 44.8#

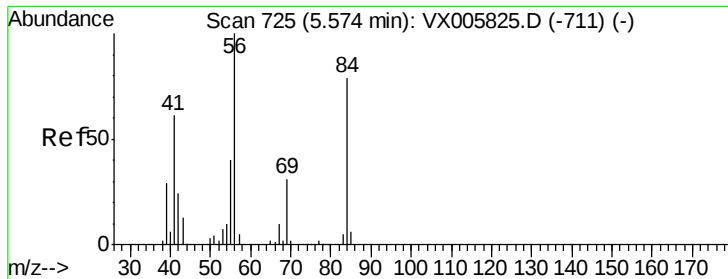


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

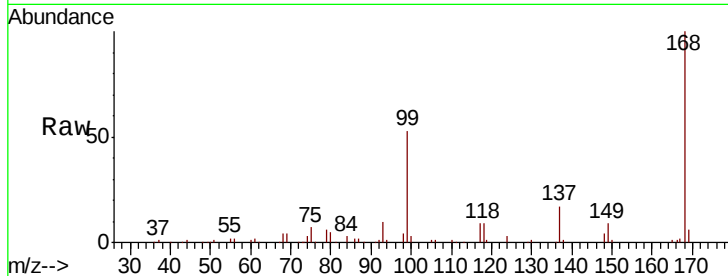




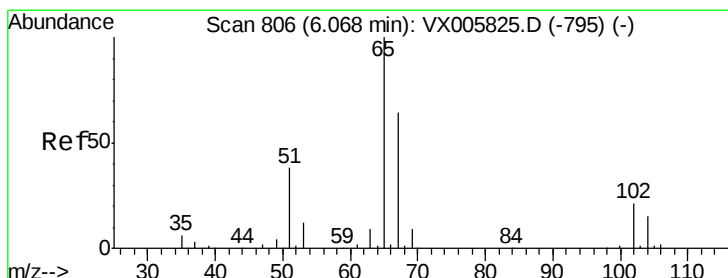
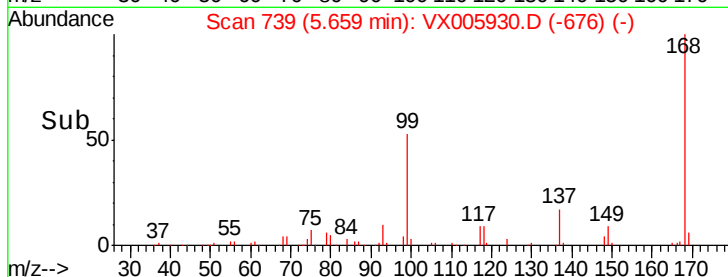
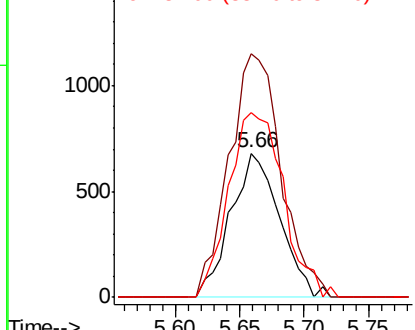
#31
Cyclohexane
Concen: 1.137 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.09 min
Lab File: VX005930.D
Acq: 13 Nov 2018 05:18

Instrument :
MSVOA_X
ClientSampleId :
DW-6

Tot Ion: 56 Resp: 1792
Ion Ratio Lower Upper
56 100
69 169.0 22.6 34.0#
84 128.2 62.7 94.1#

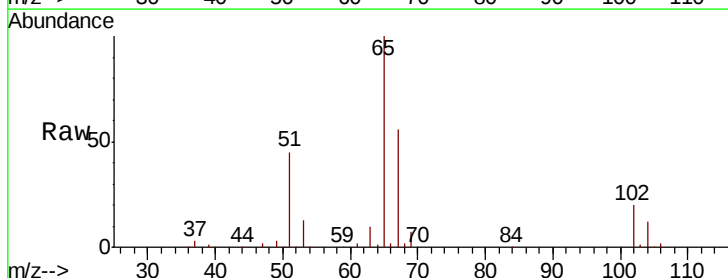


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

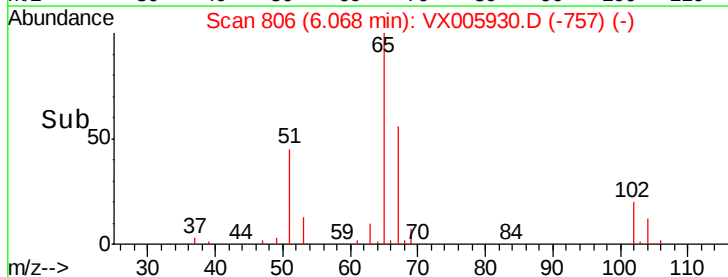
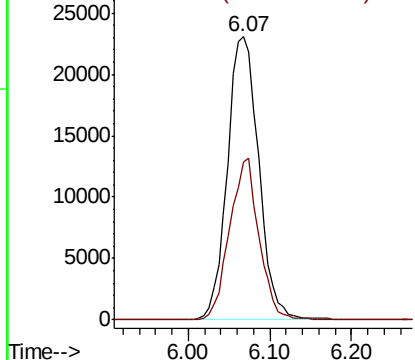


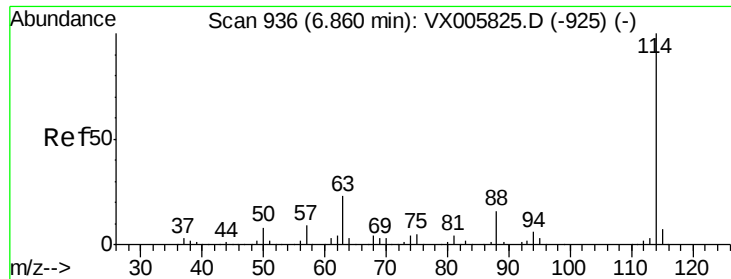
#33
1,2-Dichloroethane-d4
Concen: 54.050 ug/l
RT: 6.07 min Scan# 806
Delta R.T. -0.00 min
Lab File: VX005930.D
Acq: 13 Nov 2018 05:18

Tgt Ion: 65 Resp: 61127
Ion Ratio Lower Upper
65 100
67 53.7 0.0 105.0



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0

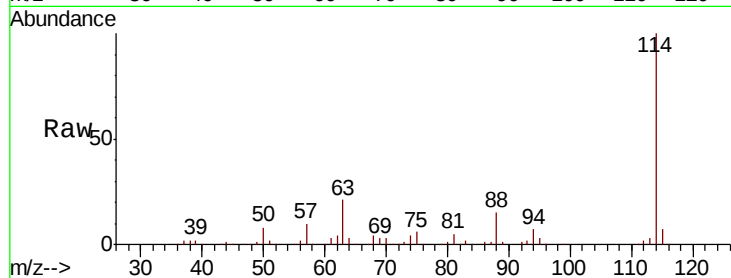




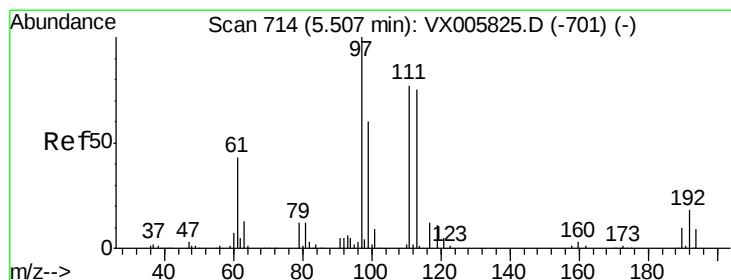
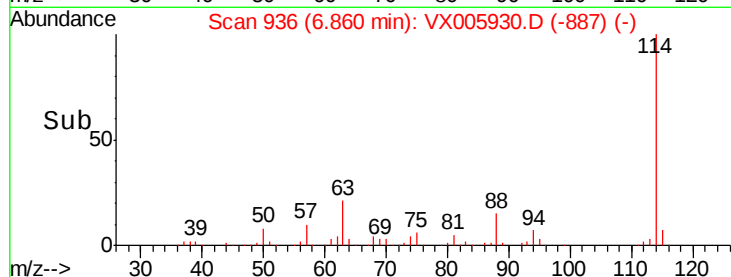
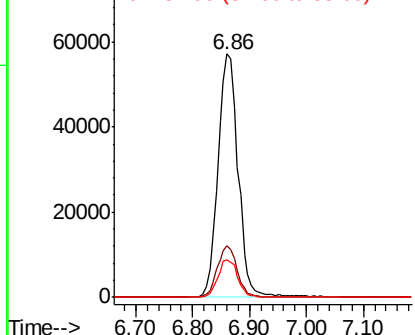
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX005930.D
 Acq: 13 Nov 2018 05:18

Instrument :
 MSVOA_X
 ClientSampleId :
 DW-6

Tot Ion:114 Resp: 140294
 Ion Ratio Lower Upper
 114 100
 63 21.2 0.0 42.8
 88 15.4 0.0 31.2

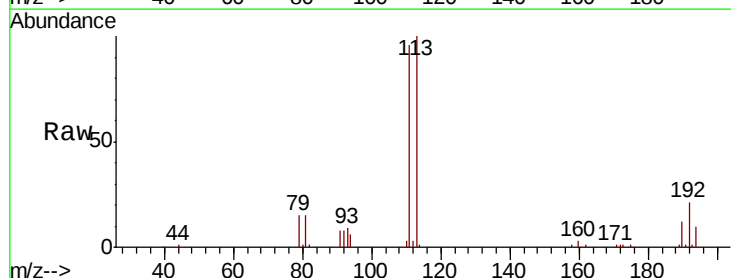


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

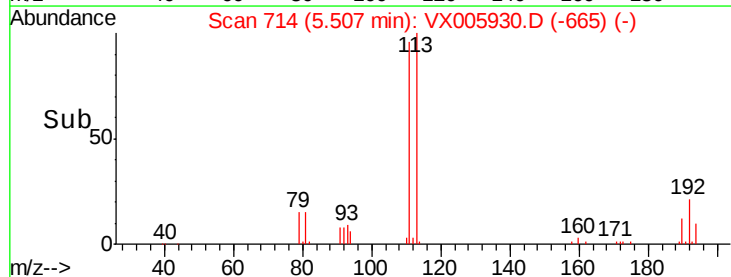
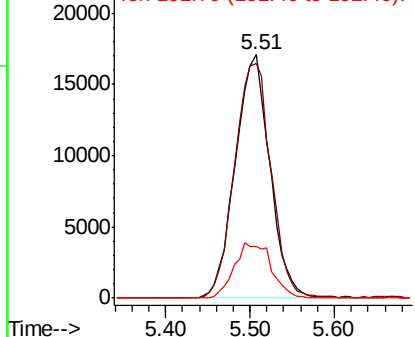


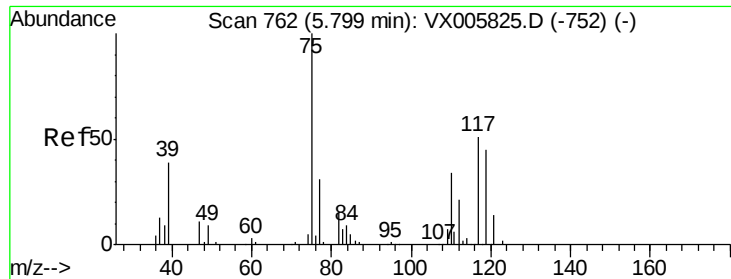
#35
 Dibromofluoromethane
 Concen: 49.701 ug/l
 RT: 5.51 min Scan# 714
 Delta R.T. -0.00 min
 Lab File: VX005930.D
 Acq: 13 Nov 2018 05:18

Tgt Ion:113 Resp: 47425
 Ion Ratio Lower Upper
 113 100
 111 101.7 82.3 123.5
 192 24.3 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

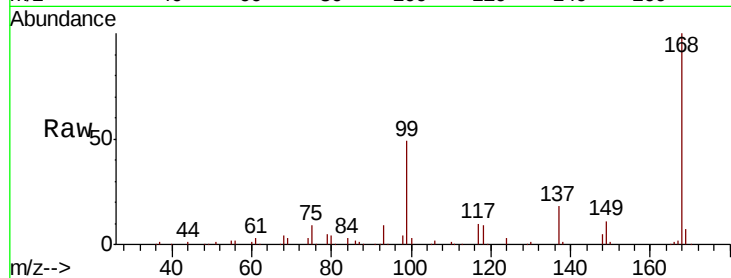




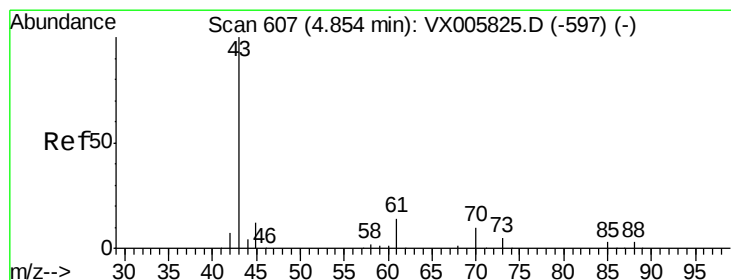
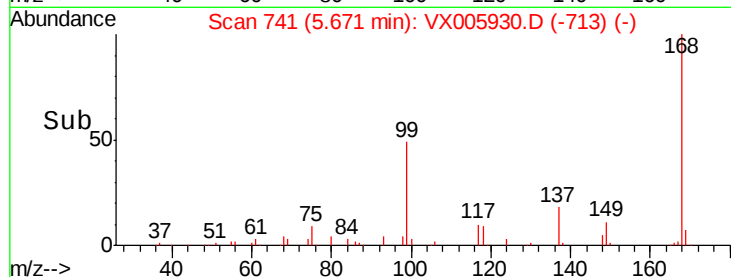
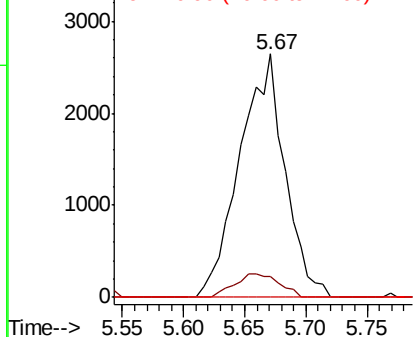
#36
 1,1-Dichloropropene
 Concen: 5.026 ug/l
 RT: 5.67 min Scan# 741
 Delta R.T. -0.13 min
 Lab File: VX005930.D
 Acq: 13 Nov 2018 05:18

Instrument :
 MSVOA_X
 ClientSampleID :
 DW-6

Tot Ion	Ratio	Lower	Upper
75	100		
110	9.6	17.4	52.2#
77	0.0	25.8	38.6#

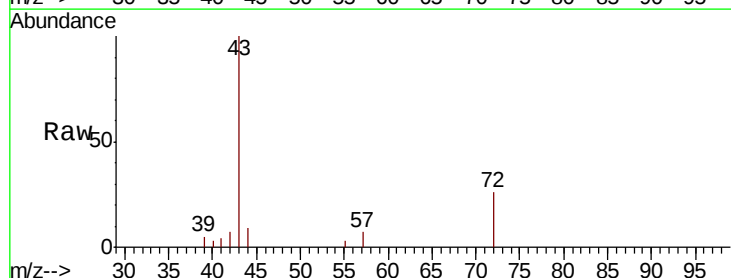


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

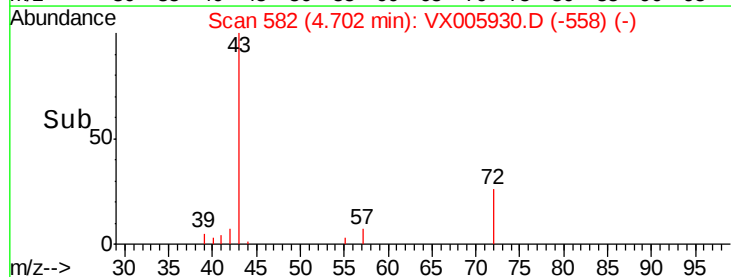
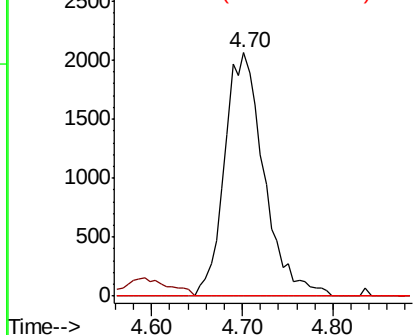


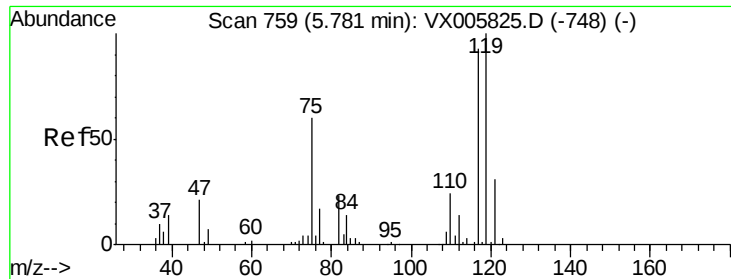
#37
 Ethyl Acetate
 Concen: 3.501 ug/l
 RT: 4.70 min Scan# 582
 Delta R.T. -0.15 min
 Lab File: VX005930.D
 Acq: 13 Nov 2018 05:18

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	10.8	16.2#
70	0.0	7.8	11.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 70.00 (69.70 to 70.70): VX0

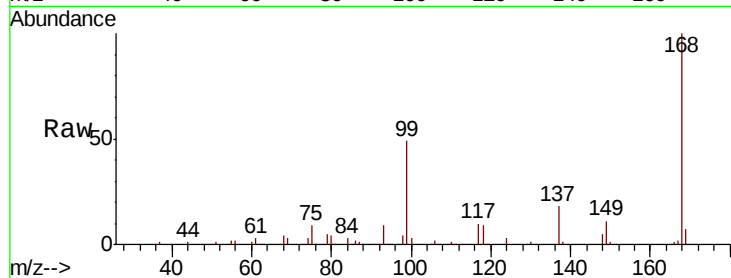




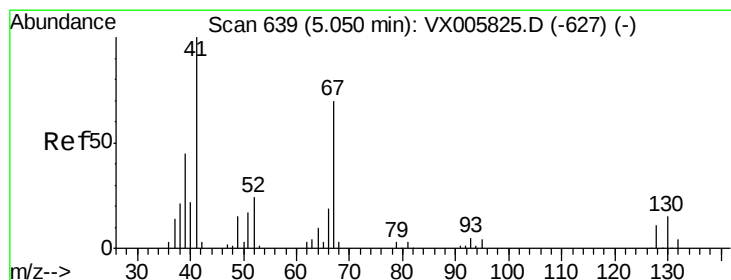
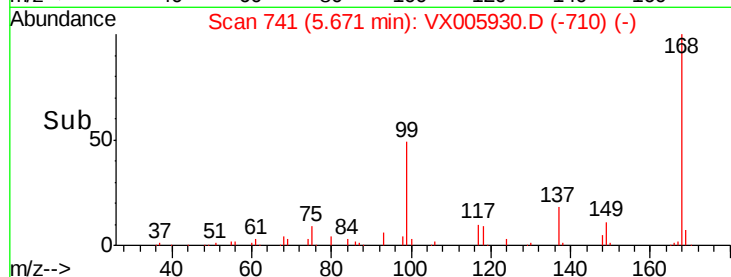
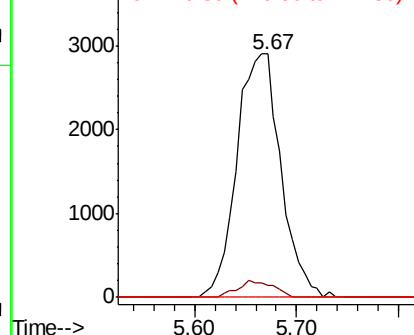
#38
Carbon Tetrachloride
Concen: 6.426 ug/l
RT: 5.67 min Scan# 741
Delta R.T. -0.11 min
Lab File: VX005930.D
Acq: 13 Nov 2018 05:18

Instrument :
MSVOA_X
ClientSampleId :
DW-6

Tot Ion:117 Resp: 8700
Ion Ratio Lower Upper
117 100
119 5.0 78.1 117.1#
121 0.0 24.6 36.8#

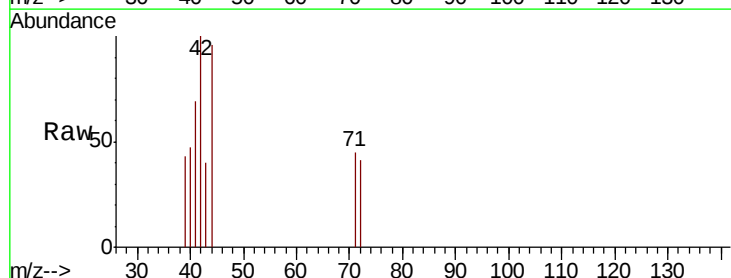


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

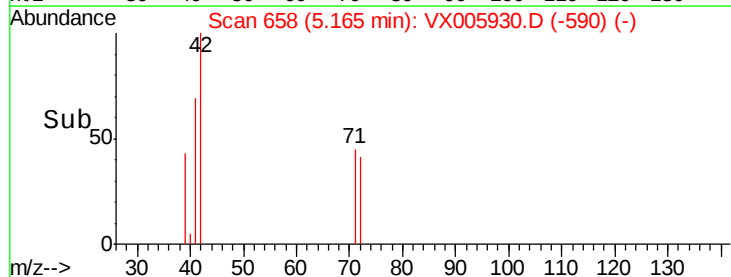
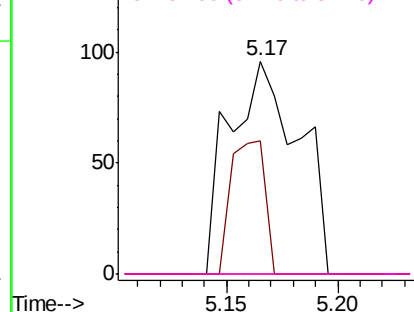


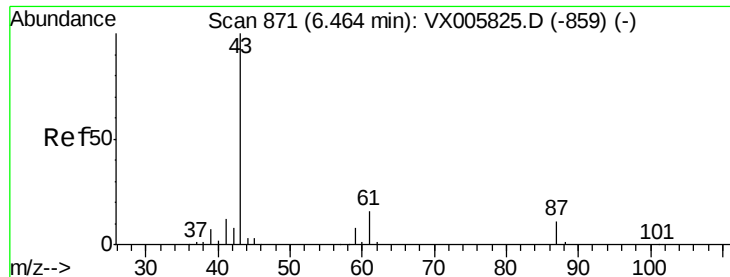
#41
Methacrylonitrile
Concen: 0.216 ug/l
RT: 5.17 min Scan# 658
Delta R.T. 0.12 min
Lab File: VX005930.D
Acq: 13 Nov 2018 05:18

Tgt Ion: 41 Resp: 208
Ion Ratio Lower Upper
41 100
39 30.3 42.2 63.2#
67 0.0 53.4 80.0#
52 0.0 23.4 35.2#



Abundance Ion 41.00 (40.70 to 41.70): VX0
Ion 39.00 (38.70 to 39.70): VX0
Ion 67.00 (66.70 to 67.70): VX0
Ion 52.00 (51.70 to 52.70): VX0



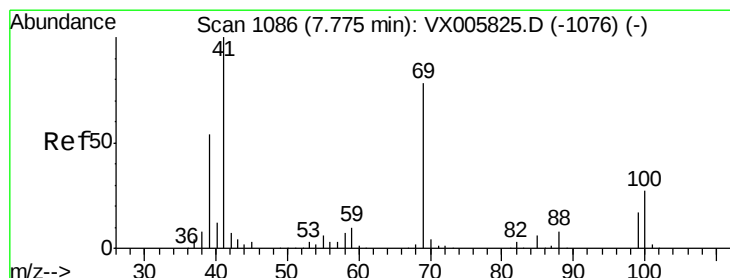
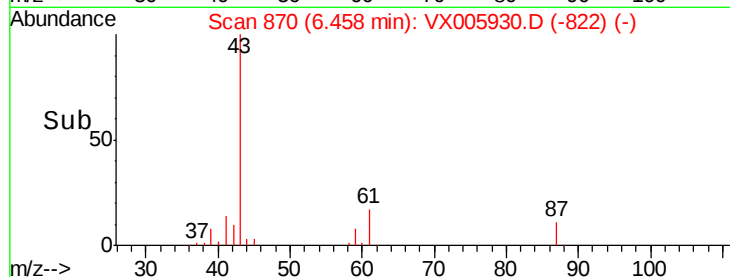
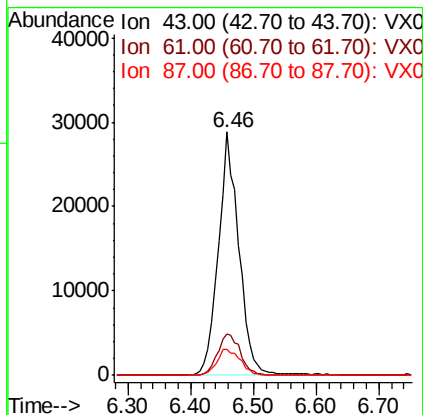
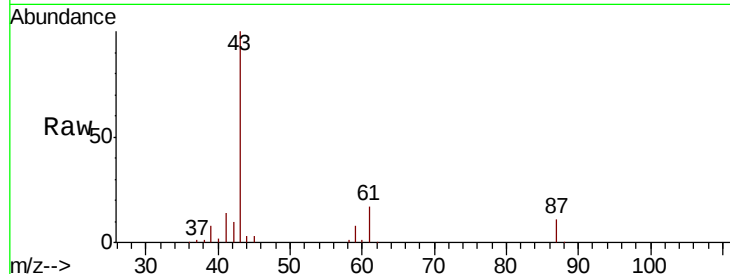


#43

Isopropyl Acetate
 Concen: 25.514 ug/l
 RT: 6.46 min Scan# 870
 Delta R.T. -0.01 min
 Lab File: VX005930.D
 Acq: 13 Nov 2018 05:18

Instrument :
 MSVOA_X
 ClientSampled :
 DW-6

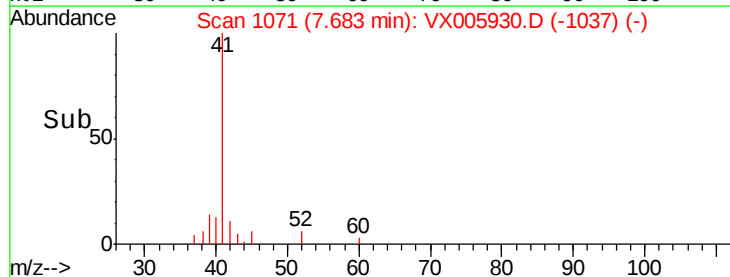
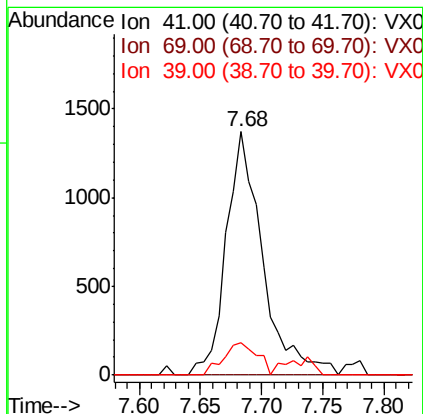
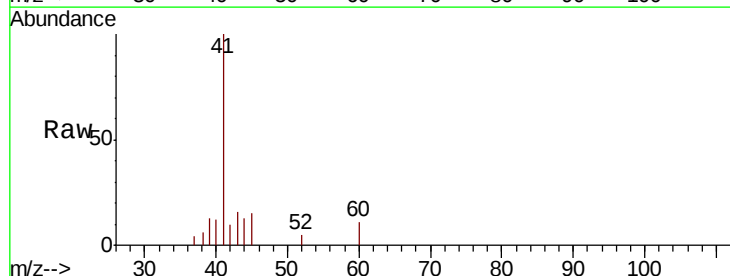
Tot Ion	43	Resp	65753
Ion Ratio	Lower	Upper	
43	100		
61	18.6	14.6	22.0
87	12.1	9.6	14.4

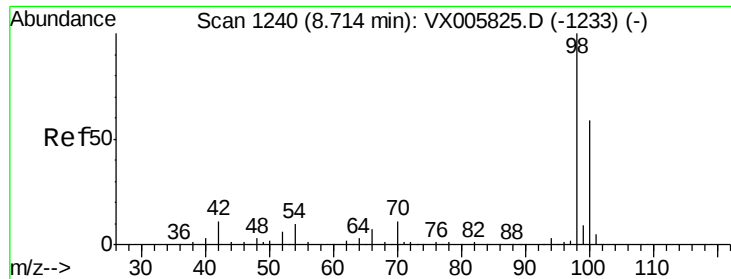


#48

Methyl methacrylate
 Concen: 2.448 ug/l
 RT: 7.68 min Scan# 1071
 Delta R.T. -0.09 min
 Lab File: VX005930.D
 Acq: 13 Nov 2018 05:18

Tgt Ion	41	Resp	2833
Ion Ratio	Lower	Upper	
41	100		
69	0.0	63.2	94.8#
39	12.3	42.2	63.2#

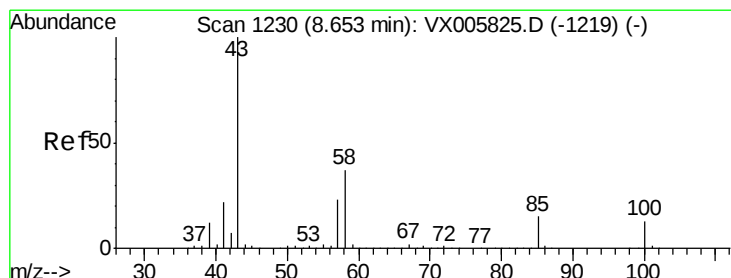
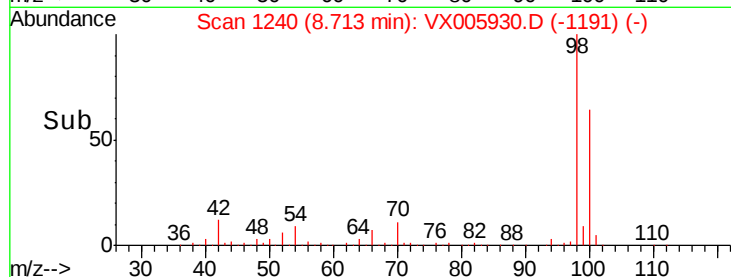
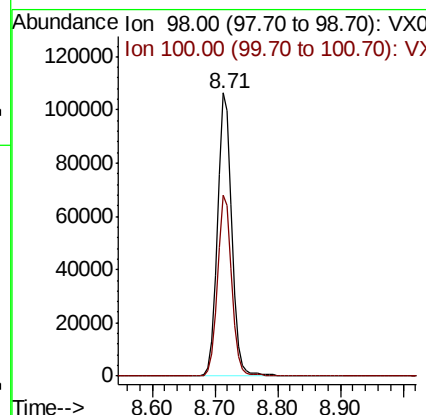
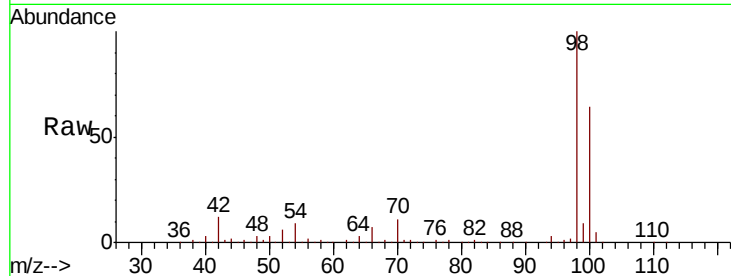




#50
Toluene-d8
Concen: 52.605 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX005930.D
Acq: 13 Nov 2018 05:18

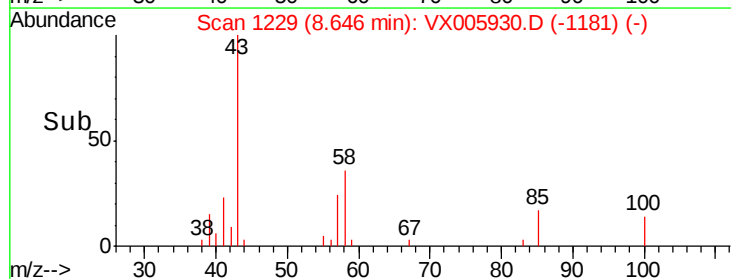
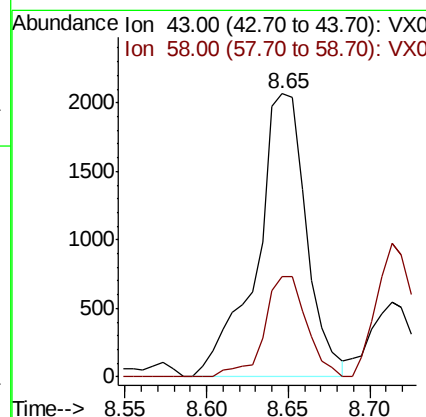
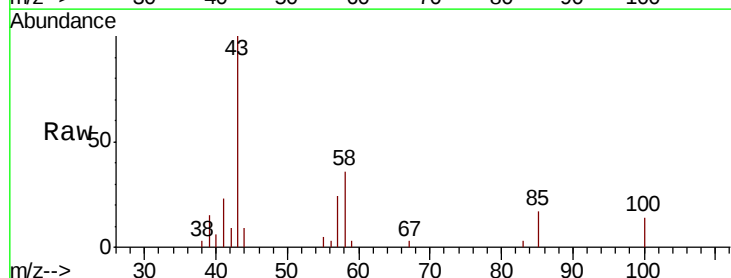
Instrument :
MSVOA_X
ClientSampleId :
DW-6

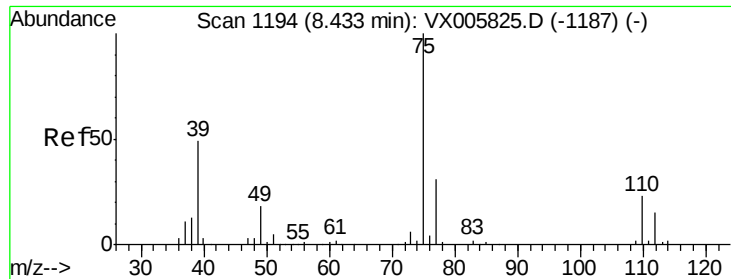
Tot Ion: 98 Resp: 166881
Ion Ratio Lower Upper
98 100
100 63.5 51.3 76.9



#51
4-Methyl-2-Pentanone
Concen: 2.708 ug/l
RT: 8.65 min Scan# 1229
Delta R.T. -0.01 min
Lab File: VX005930.D
Acq: 13 Nov 2018 05:18

Tgt Ion: 43 Resp: 4398
Ion Ratio Lower Upper
43 100
58 30.1 29.7 44.5





#54

cis-1,3-Dichloropropene

Concen: 0.223 ug/l

RT: 8.62 min Scan# 1225

Delta R.T. 0.19 min

Lab File: VX005930.D

Acq: 13 Nov 2018 05:18

Instrument :

MSVOA_X

ClientSampleId :

DW-6

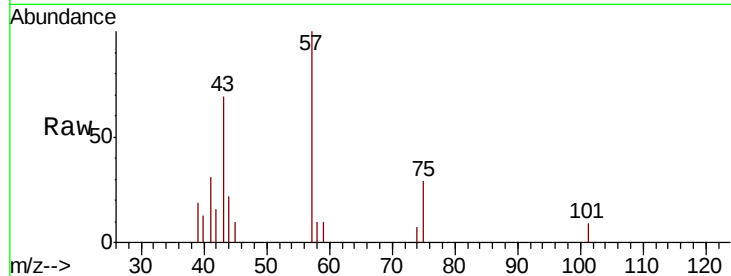
Tot Ion: 75 Resp: 304

Ion Ratio Lower Upper

75 100

77 0.0 25.2 37.8#

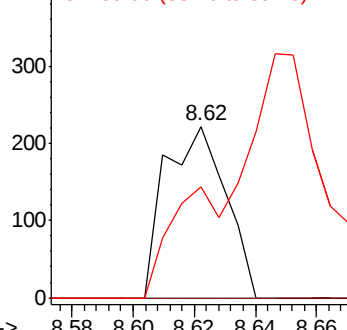
39 64.9 38.2 57.2#



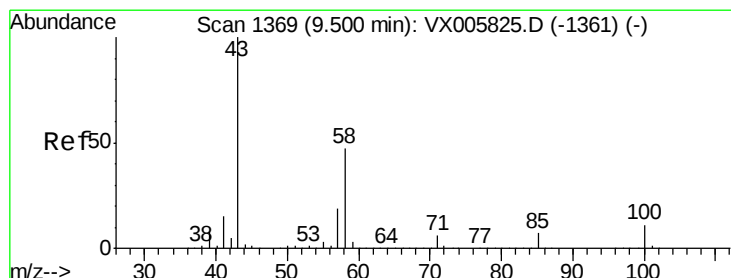
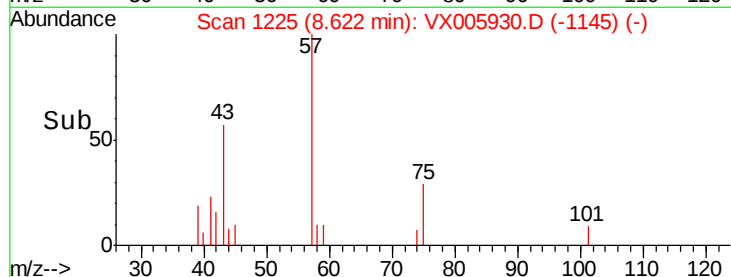
Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0



Time-->



#59

2-Hexanone

Concen: 0.342 ug/l

RT: 9.49 min Scan# 1368

Delta R.T. -0.01 min

Lab File: VX005930.D

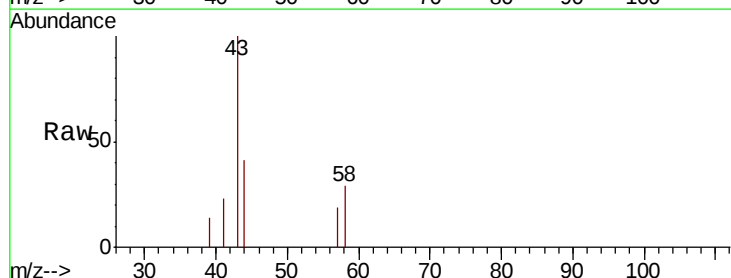
Acq: 13 Nov 2018 05:18

Tgt Ion: 43 Resp: 490

Ion Ratio Lower Upper

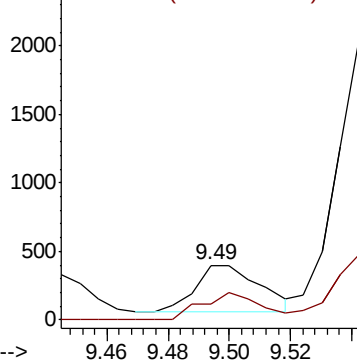
43 100

58 53.7 25.9 77.8

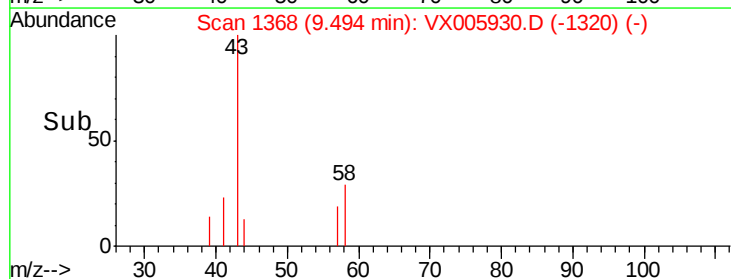


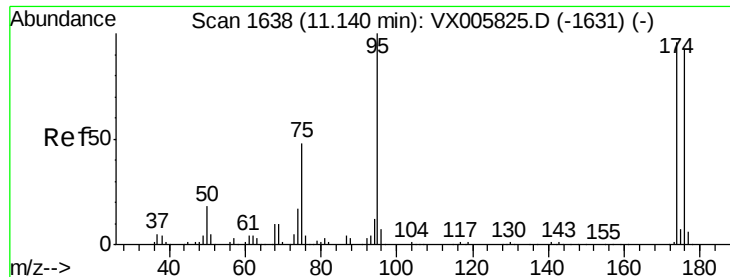
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



Time-->





#62

4-Bromofluorobenzene

Concen: 49.074 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.00 min

Lab File: VX005930.D

Acq: 13 Nov 2018 05:18

Instrument :

MSVOA_X

ClientSampleId :

DW-6

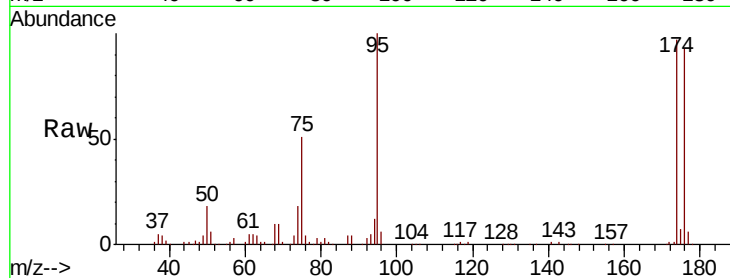
Tot Ion: 95 Resp: 55973

Ion Ratio Lower Upper

95 100

174 93.7 0.0 184.4

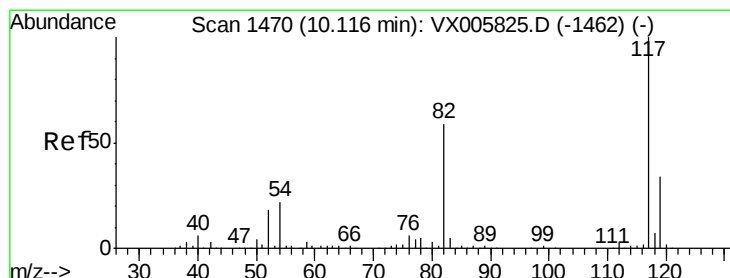
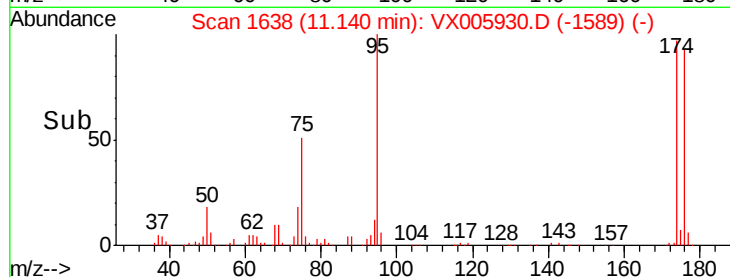
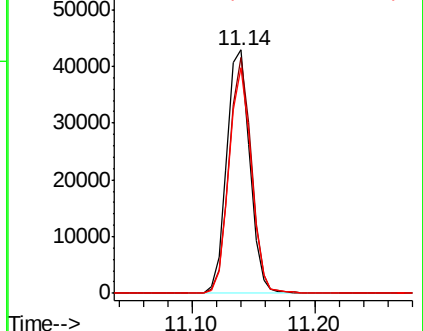
176 89.8 0.0 177.4



Abundance Ion 94.90 (94.60 to 95.60): VX005825.D (-1631) (-)

Ion 173.80 (173.50 to 174.50): VX005825.D (-1631) (-)

Ion 175.80 (175.50 to 176.50): VX005825.D (-1631) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. -0.00 min

Lab File: VX005930.D

Acq: 13 Nov 2018 05:18

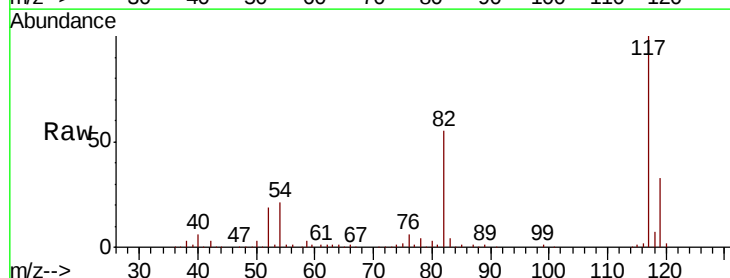
Tgt Ion: 117 Resp: 126301

Ion Ratio Lower Upper

117 100

82 55.4 44.1 66.1

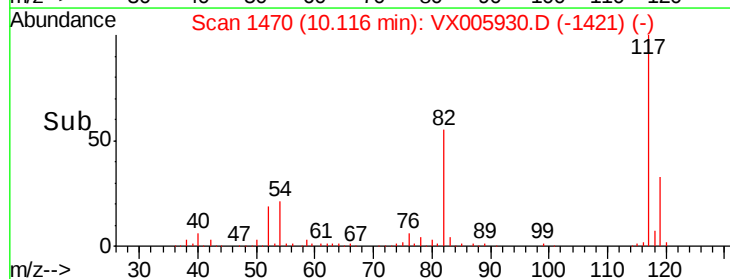
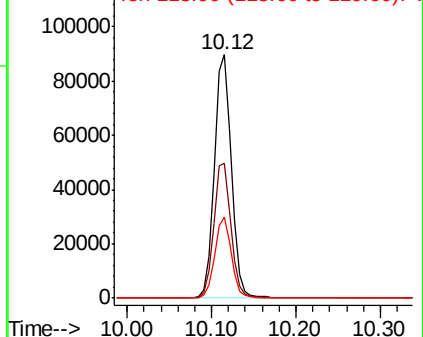
119 33.2 26.2 39.2

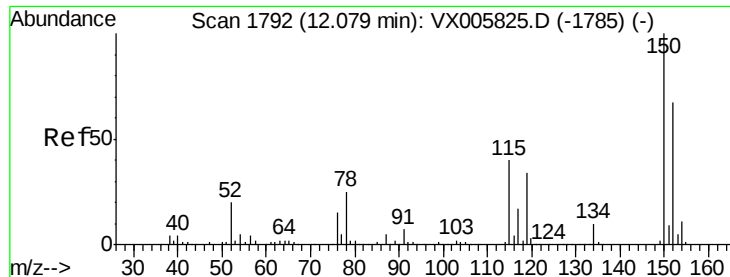


Abundance Ion 116.90 (116.60 to 117.60): VX005825.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX005825.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX005825.D (-1462) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX005930.D

Acq: 13 Nov 2018 05:18

Instrument :

MSVOA_X

ClientSampleId :

DW-6

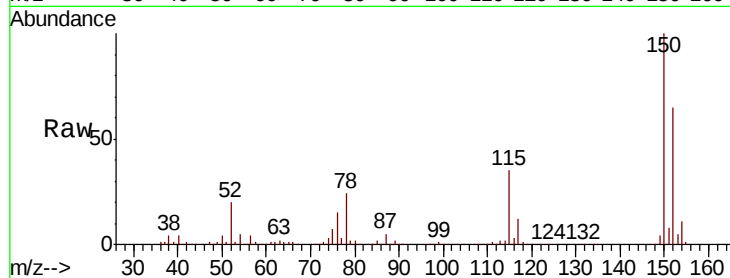
Tot Ion:152 Resp: 60682

Ion Ratio Lower Upper

152 100

115 55.6 39.4 118.1

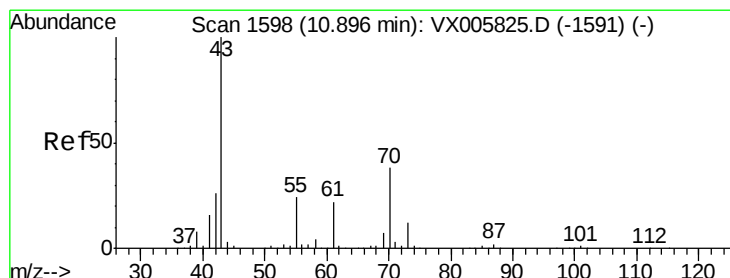
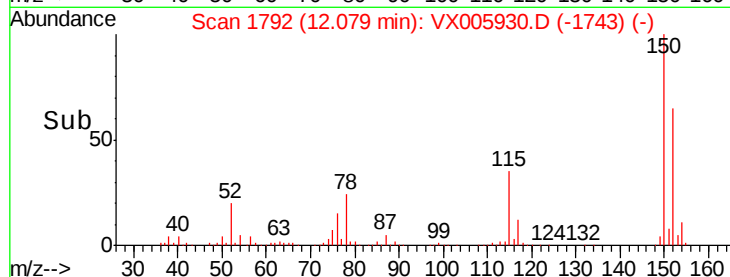
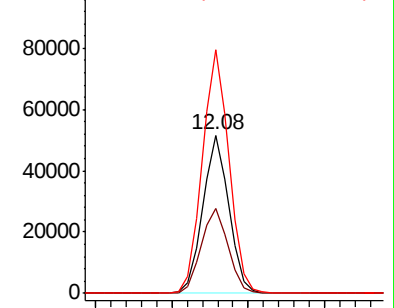
150 157.2 0.0 346.4



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: 1.271 ug/l

RT: 10.91 min Scan# 1600

Delta R.T. 0.01 min

Lab File: VX005930.D

Acq: 13 Nov 2018 05:18

Tgt Ion: 43 Resp: 41

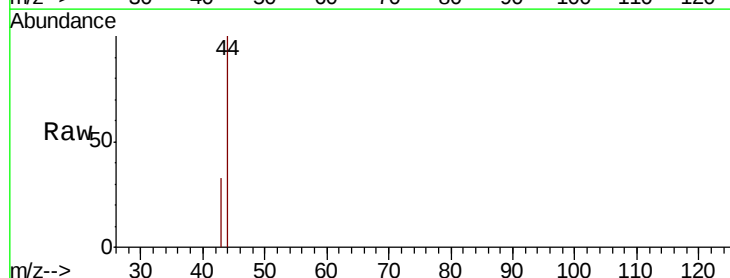
Ion Ratio Lower Upper

43 100

70 0.0 31.6 47.4#

55 0.0 19.7 29.5#

61 0.0 18.3 27.5#

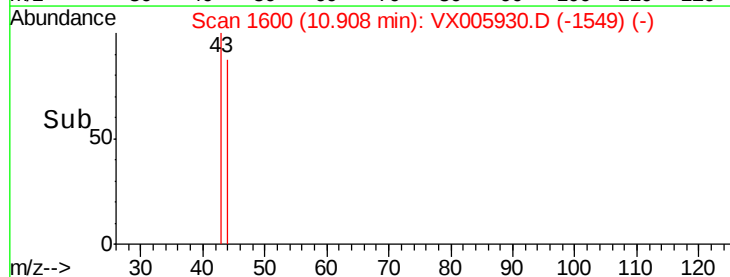
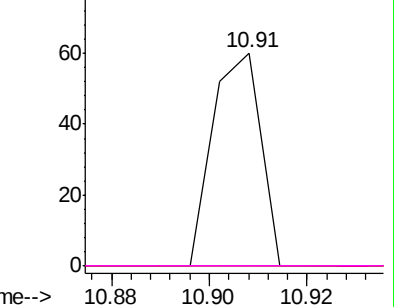


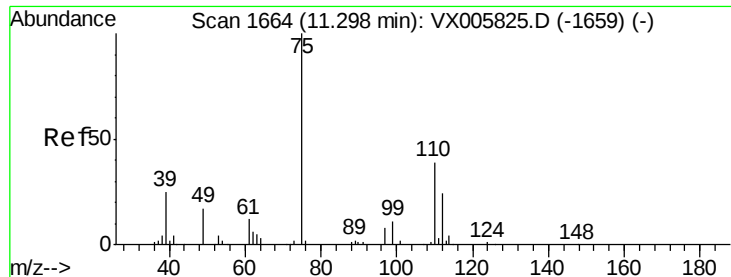
Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 23.064 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005930.D

Acq: 13 Nov 2018 05:18

Instrument :

MSVOA_X

ClientSampleId :

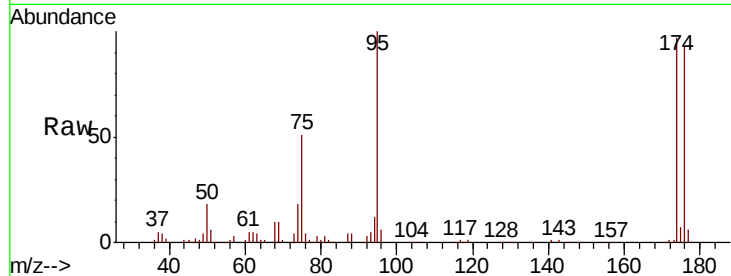
DW-6

Tot Ion: 75 Resp: 28498

Ion Ratio Lower Upper

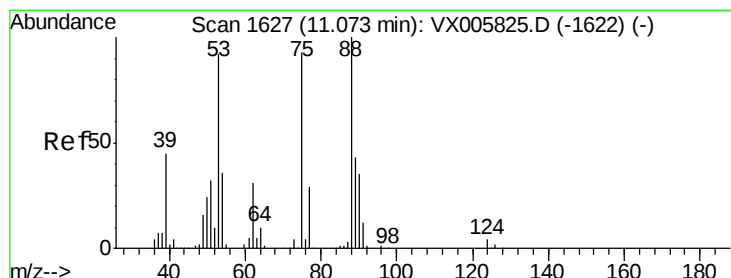
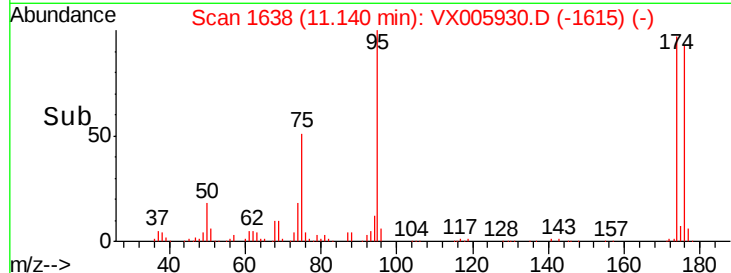
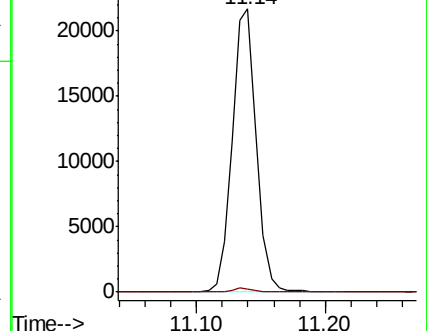
75 100

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: 73.508 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX005930.D

Acq: 13 Nov 2018 05:18

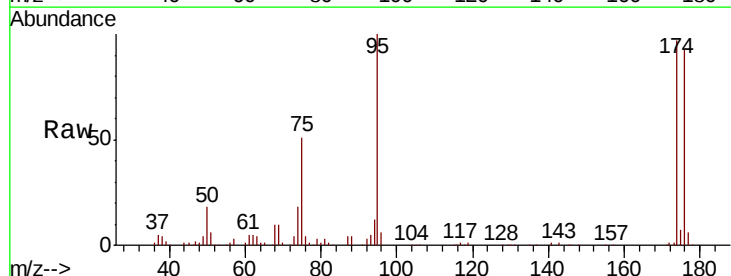
Tgt Ion: 75 Resp: 28498

Ion Ratio Lower Upper

75 100

53 0.2 80.2 120.2#

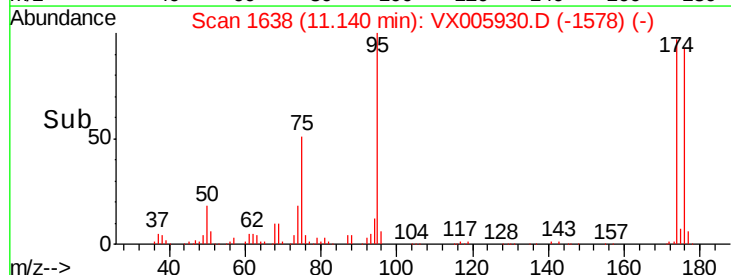
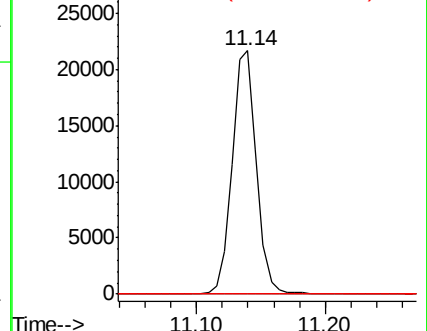
89 0.0 39.8 59.8#

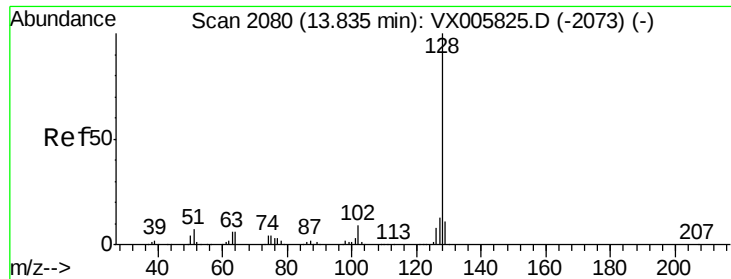


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#95
Naphthalene
Concen: 6.056 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. 0.00 min
Lab File: VX005930.D
Acq: 13 Nov 2018 05:18

Instrument :
MSVOA_X
ClientSampleId :
DW-6

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.6	10.4	15.6
129	10.9	8.7	13.1

