

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX111218\
 Data File : VX005929.D
 Acq On : 13 Nov 2018 04:52
 Operator : JC/MD
 Sample : J5894-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 DW-4

Quant Time: Nov 13 06:56:48 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	107049	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	6.87	114	149800	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	133731	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	63172	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	65486	53.21	ug/l	0.00
Spiked Amount			Recovery	=	106.42%	
35) Dibromofluoromethane	5.51	113	51020	50.08	ug/l	0.00
Spiked Amount			Recovery	=	100.16%	
50) Toluene-d8	8.71	98	176254	52.03	ug/l	0.00
Spiked Amount			Recovery	=	104.06%	
62) 4-Bromofluorobenzene	11.14	95	58628	48.14	ug/l	0.00
Spiked Amount			Recovery	=	96.28%	

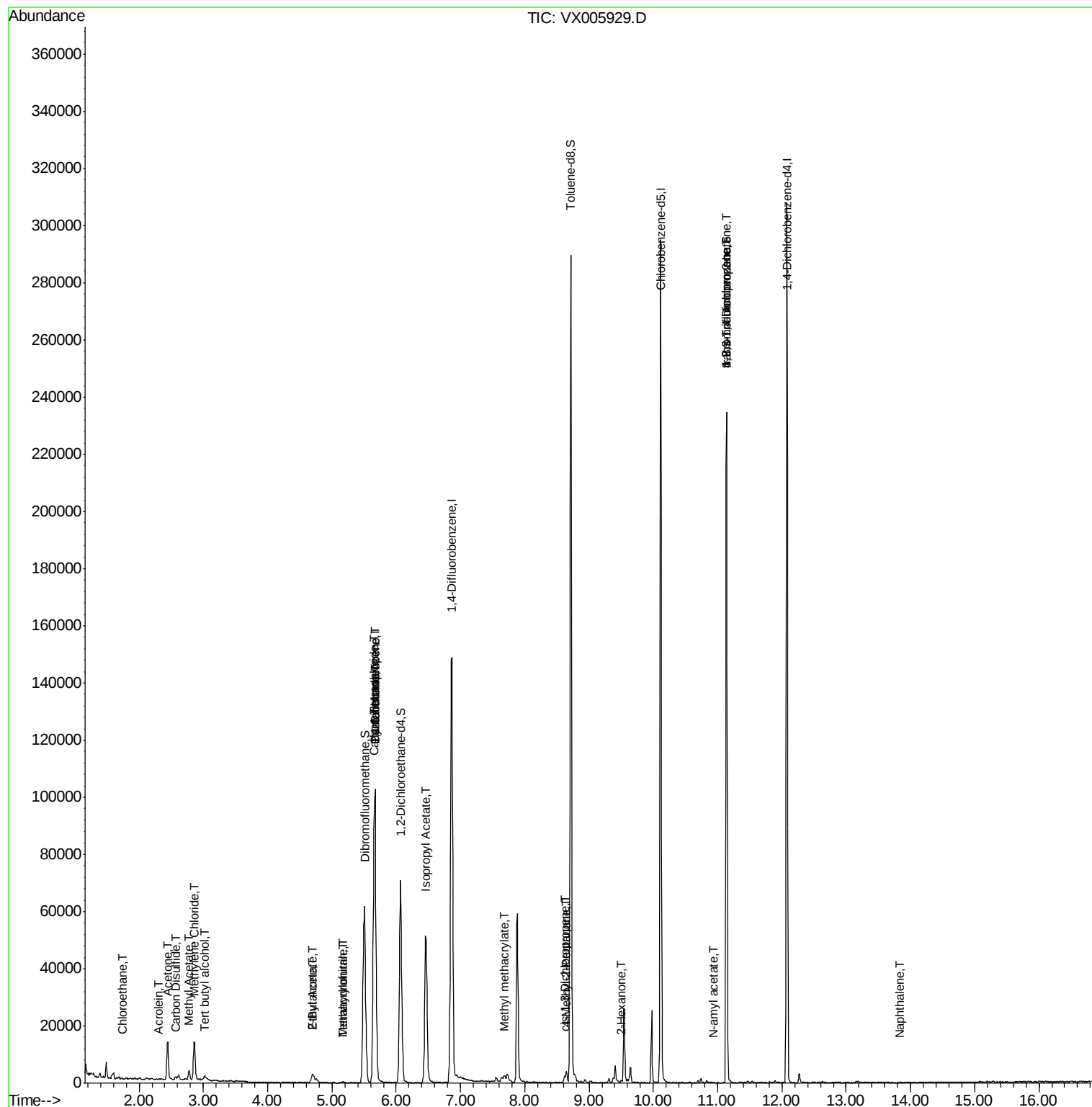
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.75	64	253	0.333	ug/l #	42
11) Tert butyl alcohol	3.02	59	1816	5.151	ug/l #	72
13) Acrolein	2.29	56	26	19.306	ug/l #	14
16) Acetone	2.45	43	14672	22.142	ug/l	92
17) Carbon Disulfide	2.57	76	1055	0.374	ug/l #	91
18) Methyl Acetate	2.78	43	4464	1.062	ug/l	93
20) Methylene Chloride	2.85	84	5787	5.317	ug/l	93
25) 2-Butanone	4.70	43	6160	5.913	ug/l	92
29) Tetrahydrofuran	5.17	42	417	0.623	ug/l #	53
31) Cyclohexane	5.67	56	1911	1.115	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	7134	4.940	ug/l #	49
37) Ethyl Acetate	4.70	43	6160	3.244	ug/l #	69
38) Carbon Tetrachloride	5.66	117	9472	6.552	ug/l #	16
41) Methacrylonitrile	5.17	41	217	0.211	ug/l #	25
43) Isopropyl Acetate	6.46	43	70011	25.443	ug/l	98
48) Methyl methacrylate	7.68	41	2779	2.249	ug/l #	23
51) 4-Methyl-2-Pentanone	8.65	43	3467	1.999	ug/l #	81
54) cis-1,3-Dichloropropene	8.62	75	366	0.251	ug/l #	68
59) 2-Hexanone	9.50	43	678	0.444	ug/l	97
74) N-amyl acetate	10.94	43	62	1.280	ug/l #	44
76) 1,2,3-Trichloropropane	11.13	75	29532	22.959	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.13	75	29532	73.173	ug/l #	9
84) 1,2,4-Trimethylbenzene	11.81	105	31	Below Cal	#	31
95) Naphthalene	13.83	128	126	1.204	ug/l #	69

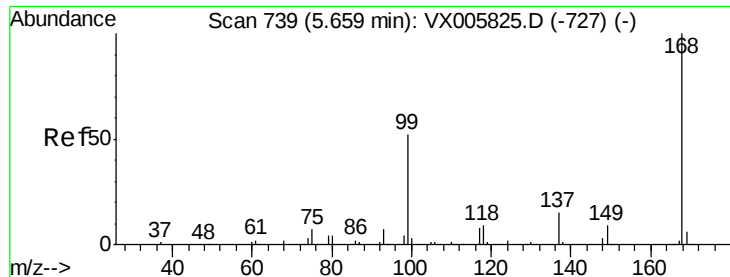
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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DW-4

Quant Time: Nov 13 06:56:48 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X110718W.M
Quant Title : SW846 8260
QLast Update : Wed Nov 07 14:40:53 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 741

Delta R.T. 0.01 min

Lab File: VX005929.D

Acq: 13 Nov 2018 04:52

Instrument :

MSVOA_X

ClientSampleId :

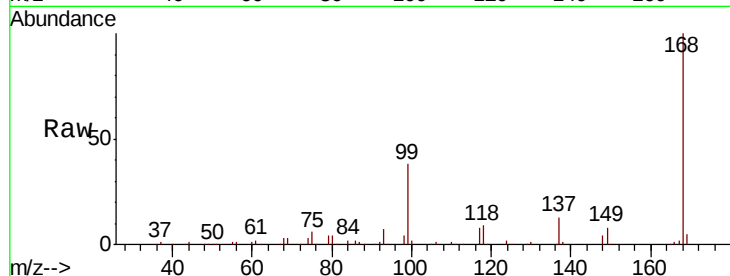
DW-4

Tot Ion:168 Resp: 107049

Ion Ratio Lower Upper

168 100

99 38.2 40.7 61.1#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

40000

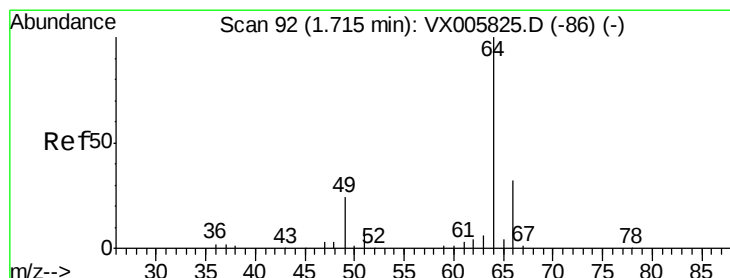
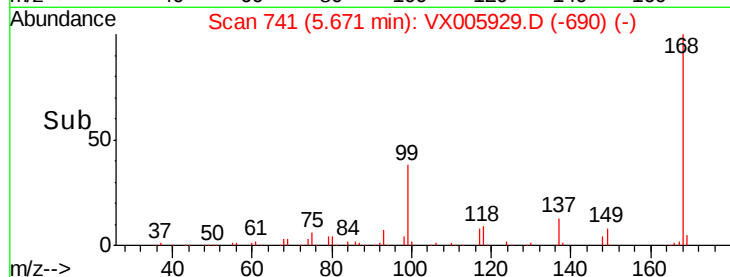
30000

20000

10000

0

Time--> 5.50 5.60 5.70 5.80



#6

Chloroethane

Concen: 0.333 ug/l

RT: 1.75 min Scan# 97

Delta R.T. 0.03 min

Lab File: VX005929.D

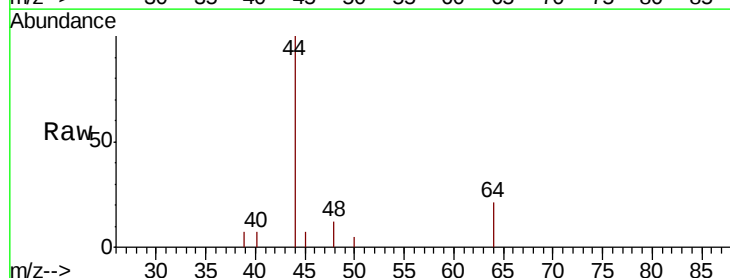
Acq: 13 Nov 2018 04:52

Tgt Ion: 64 Resp: 253

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

1.75

250

200

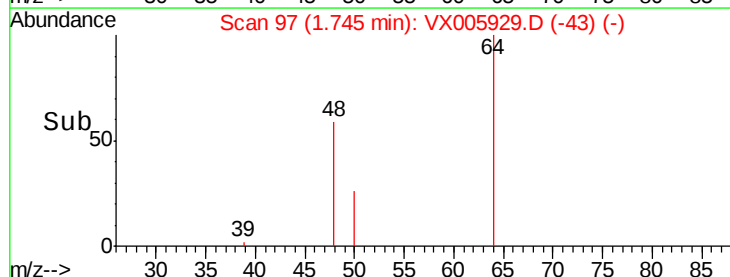
150

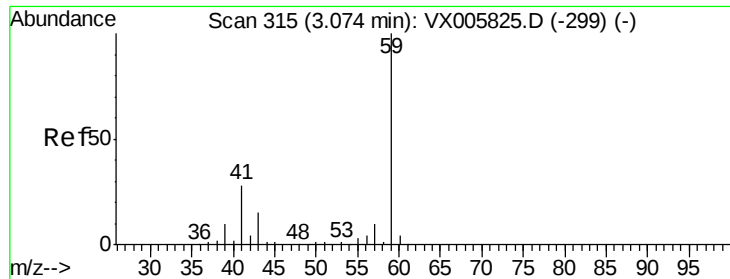
100

50

0

Time--> 1.70 1.75

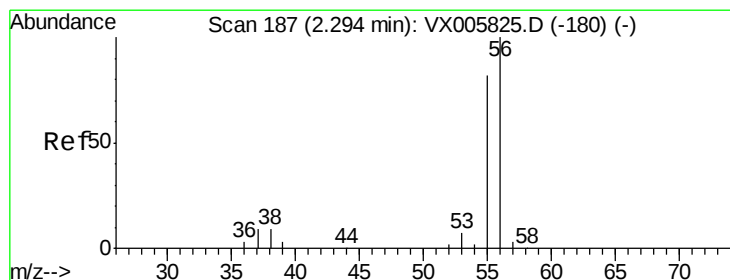
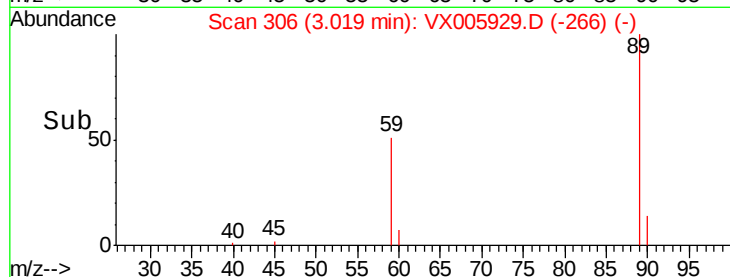
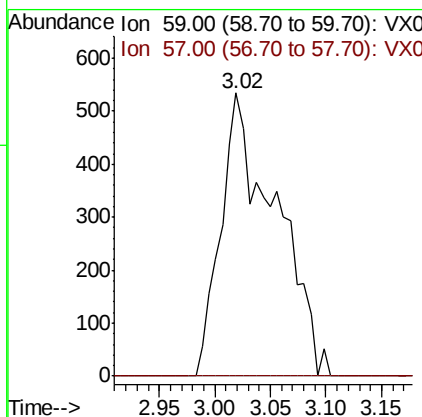
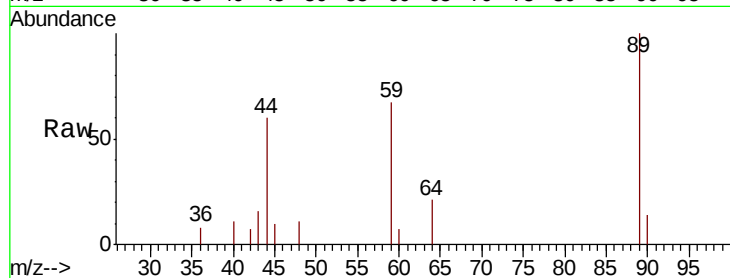




#11
Tert butyl alcohol
Concen: 5.151 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.06 min
Lab File: VX005929.D
Acq: 13 Nov 2018 04:52

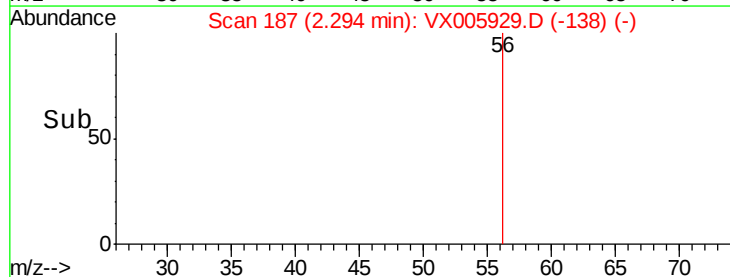
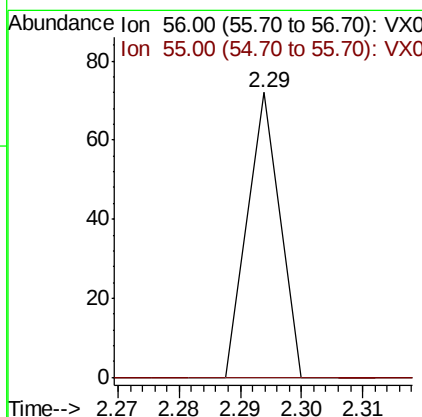
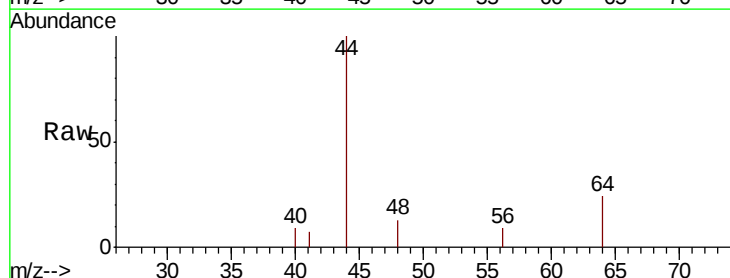
Instrument :
MSVOA_X
ClientSampled :
DW-4

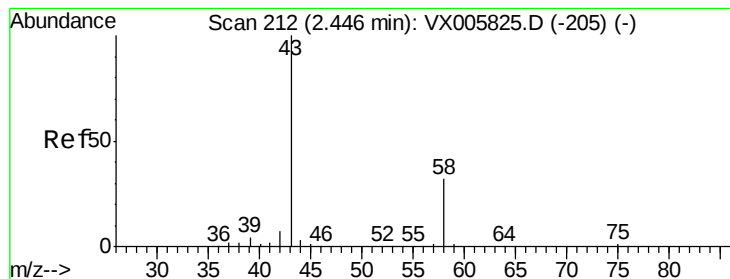
Tot Ion: 59 Resp: 1816
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#



#13
Acrolein
Concen: 19.306 ug/l
RT: 2.29 min Scan# 187
Delta R.T. 0.00 min
Lab File: VX005929.D
Acq: 13 Nov 2018 04:52

Tgt Ion: 56 Resp: 26
Ion Ratio Lower Upper
56 100
55 0.0 57.3 85.9#





#16

Acetone

Concen: 22.142 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX005929.D

Acq: 13 Nov 2018 04:52

Instrument :

MSVOA_X

ClientSampled :

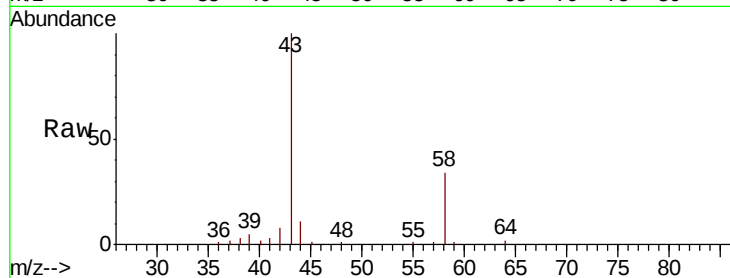
DW-4

Tot Ion: 43 Resp: 14672

Ion Ratio Lower Upper

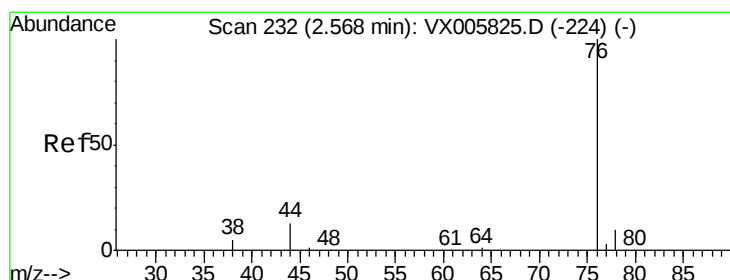
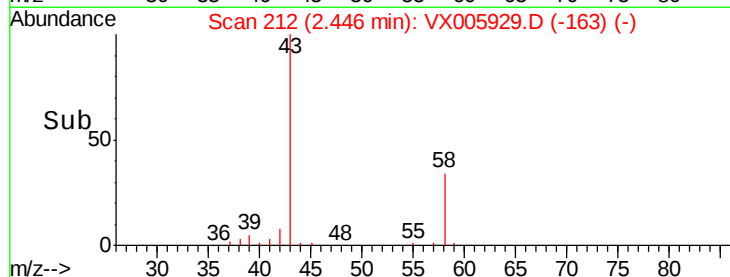
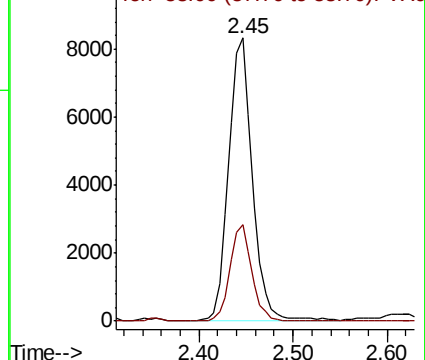
43 100

58 33.9 23.8 35.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: 0.374 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX005929.D

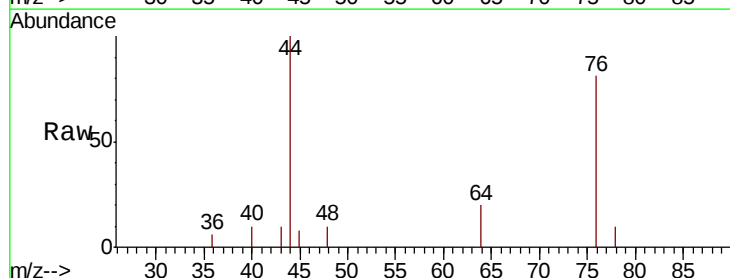
Acq: 13 Nov 2018 04:52

Tgt Ion: 76 Resp: 1055

Ion Ratio Lower Upper

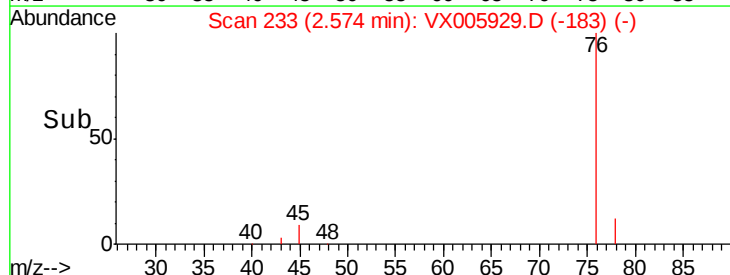
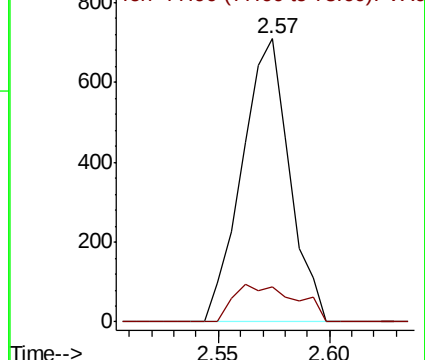
76 100

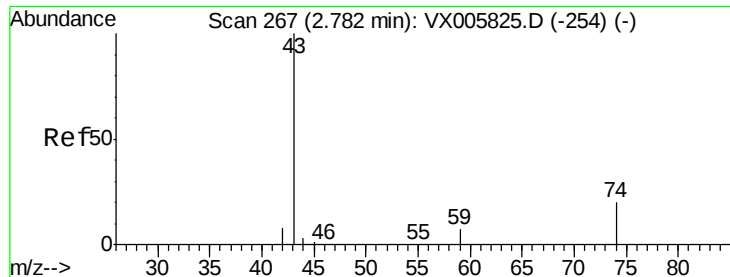
78 12.4 7.3 10.9#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

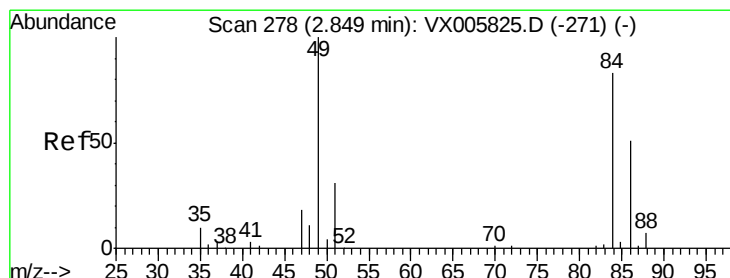
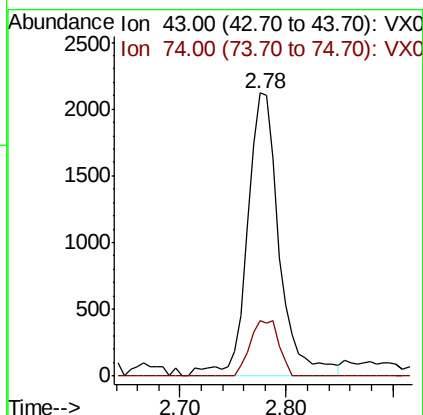
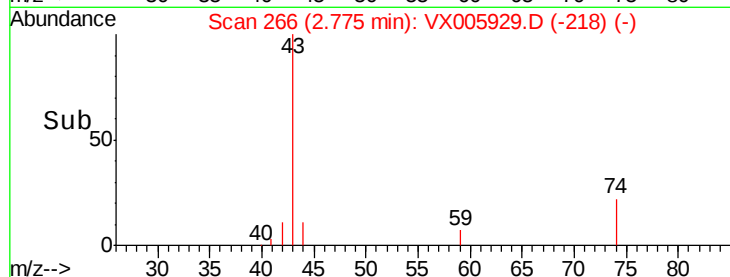
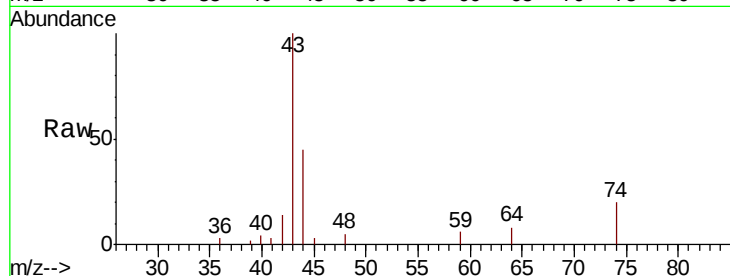




#18
Methvl Acetate
Concen: 1.062 ug/l
RT: 2.78 min Scan# 266
Delta R.T. -0.01 min
Lab File: VX005929.D
Acq: 13 Nov 2018 04:52

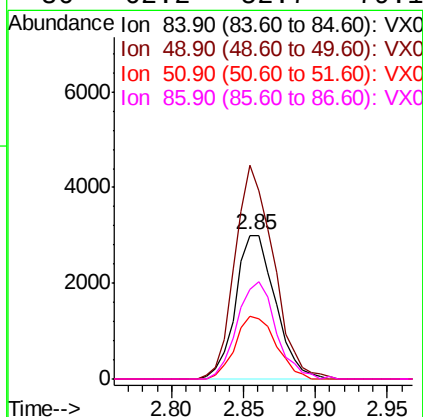
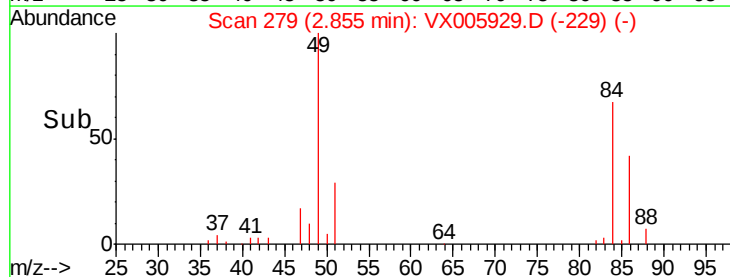
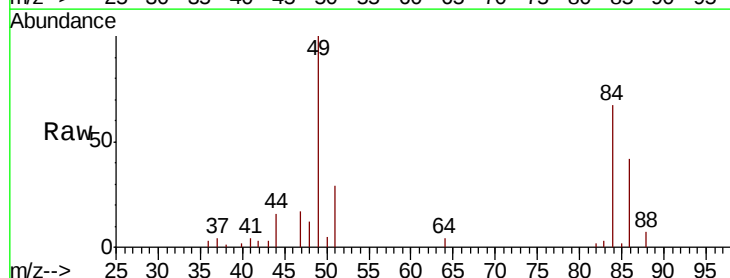
Instrument :
MSVOA_X
ClientSampleId :
DW-4

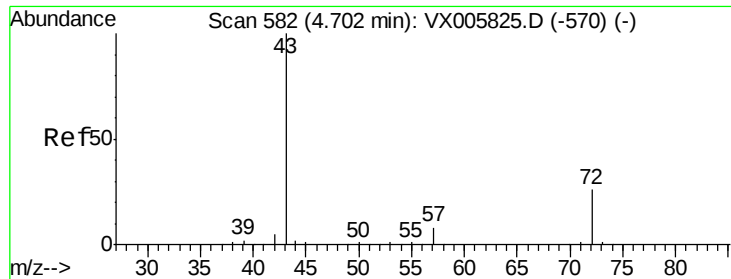
Tot Ion: 43 Resp: 4464
Ion Ratio Lower Upper
43 100
74 17.7 16.8 25.2



#20
Methylene Chloride
Concen: 5.317 ug/l
RT: 2.85 min Scan# 279
Delta R.T. 0.01 min
Lab File: VX005929.D
Acq: 13 Nov 2018 04:52

Tgt Ion: 84 Resp: 5787
Ion Ratio Lower Upper
84 100
49 148.5 109.5 164.3
51 43.5 33.3 49.9
86 62.2 52.7 79.1





#25

2-Butanone

Concen: 5.913 ug/l

RT: 4.70 min Scan# 582

Delta R.T. -0.00 min

Lab File: VX005929.D

Acq: 13 Nov 2018 04:52

Instrument :

MSVOA_X

ClientSampleId :

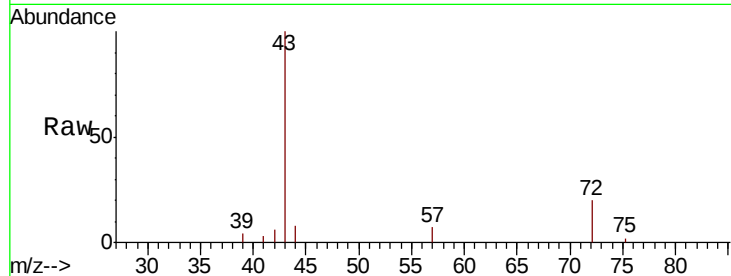
DW-4

Tot Ion: 43 Resp: 6160

Ion Ratio Lower Upper

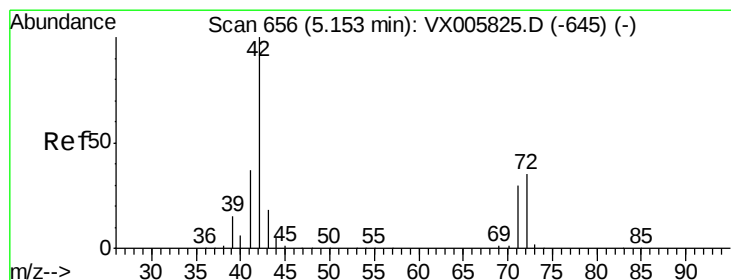
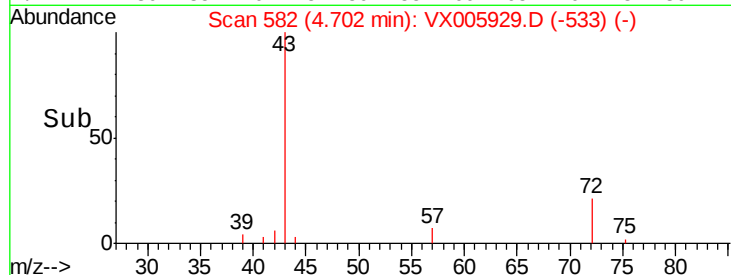
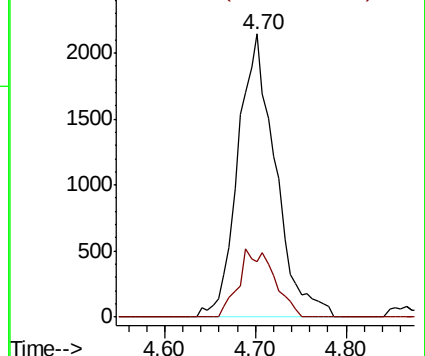
43 100

72 19.8 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: 0.623 ug/l

RT: 5.17 min Scan# 659

Delta R.T. 0.02 min

Lab File: VX005929.D

Acq: 13 Nov 2018 04:52

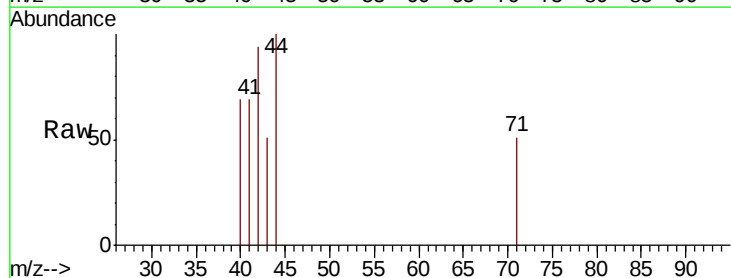
Tgt Ion: 42 Resp: 417

Ion Ratio Lower Upper

42 100

72 9.1 32.0 48.0#

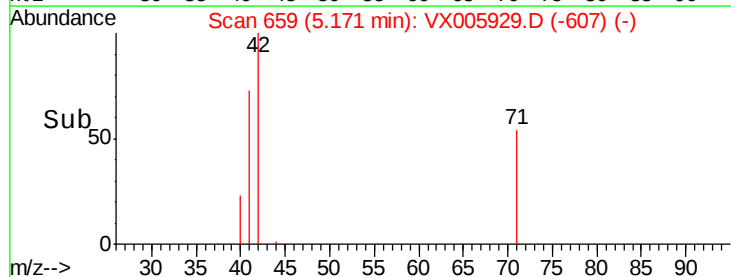
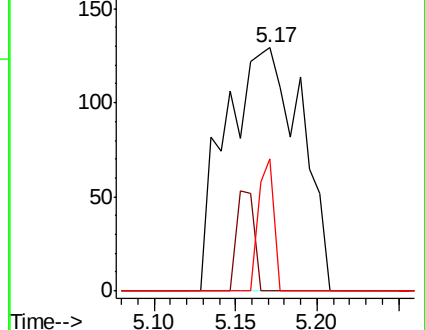
71 11.3 29.8 44.8#

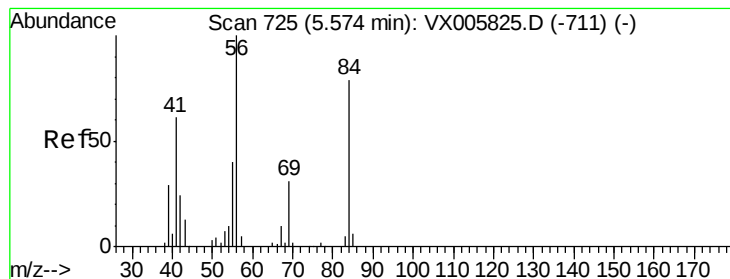


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0





#31

Cyclohexane

Concen: 1.115 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.09 min

Lab File: VX005929.D

Acq: 13 Nov 2018 04:52

Instrument :

MSVOA_X

ClientSampled :

DW-4

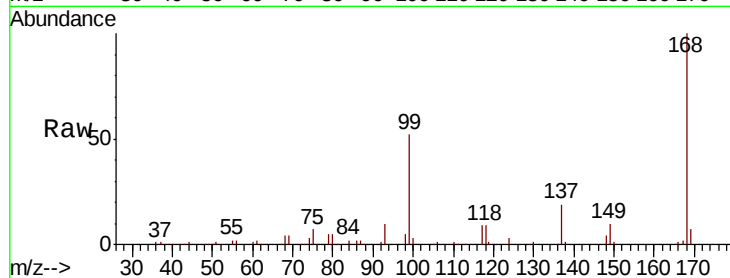
Tot Ion: 56 Resp: 1911

Ion Ratio Lower Upper

56 100

69 174.5 22.6 34.0#

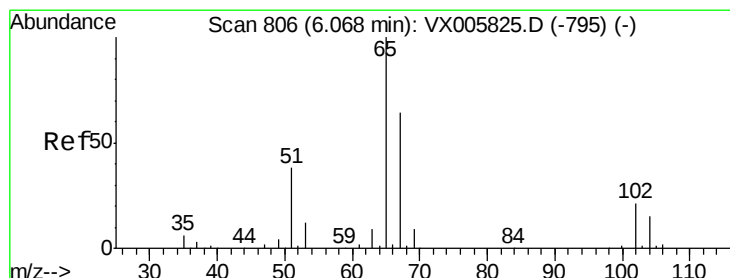
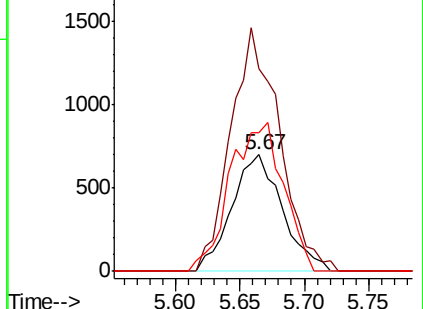
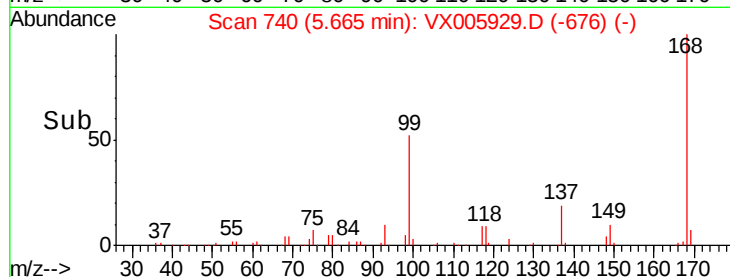
84 119.6 62.7 94.1#



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: 53.212 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX005929.D

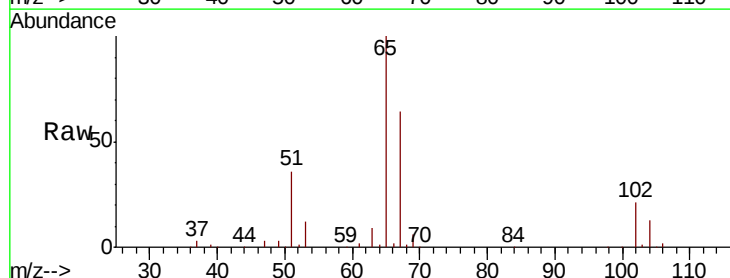
Acq: 13 Nov 2018 04:52

Tgt Ion: 65 Resp: 65486

Ion Ratio Lower Upper

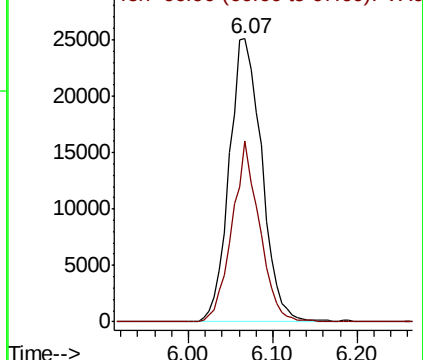
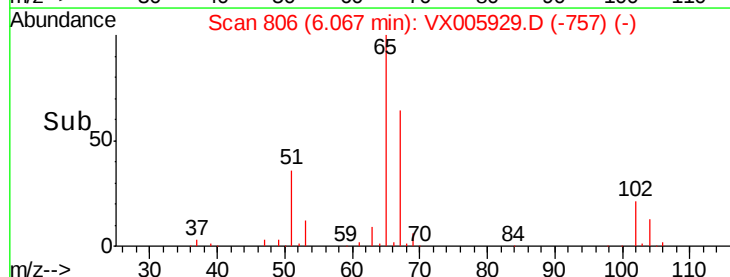
65 100

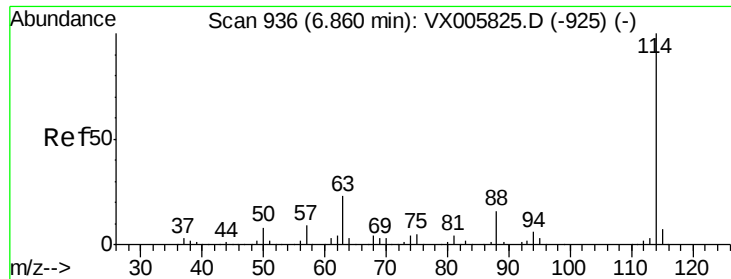
67 53.7 0.0 105.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

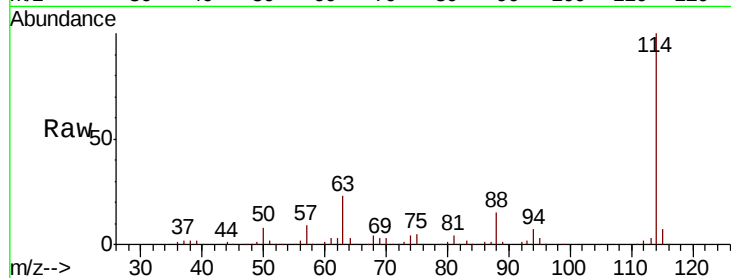




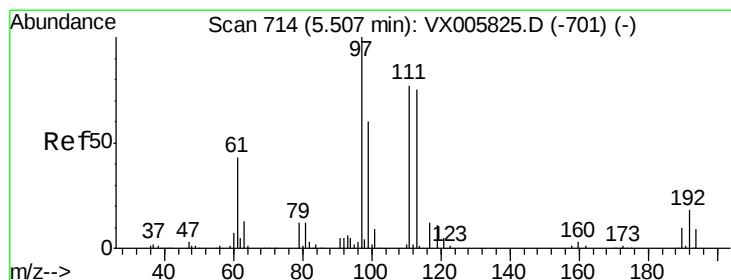
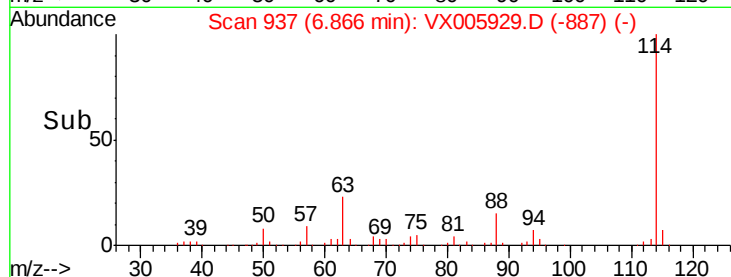
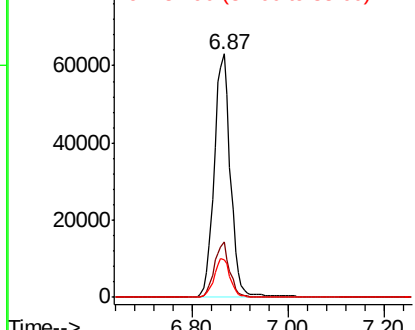
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.87 min Scan# 937
Delta R.T. 0.01 min
Lab File: VX005929.D
Acq: 13 Nov 2018 04:52

Instrument :
MSVOA_X
ClientSampleId :
DW-4

Tot Ion:114 Resp: 149800
Ion Ratio Lower Upper
114 100
63 22.5 0.0 42.8
88 15.5 0.0 31.2

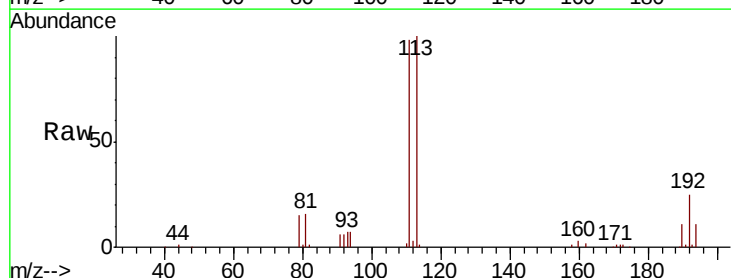


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VX0
Ion 87.90 (87.60 to 88.60): VX0

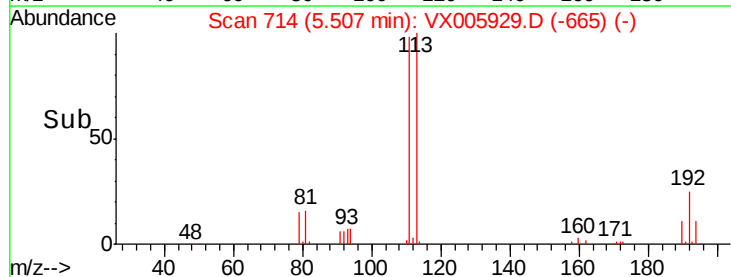
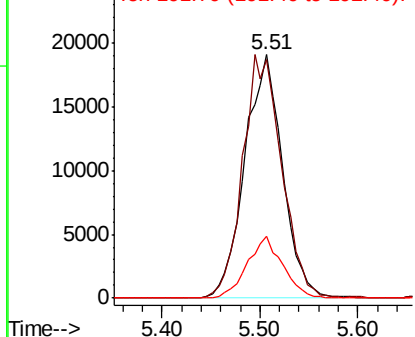


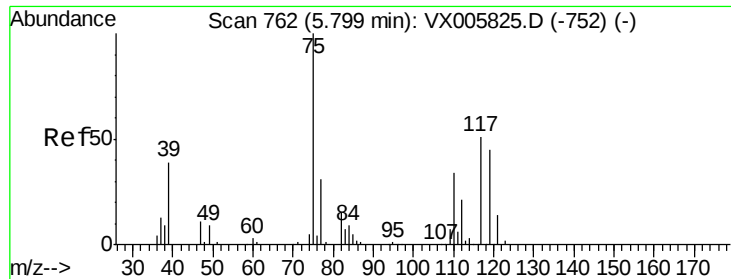
#35
Dibromofluoromethane
Concen: 50.075 ug/l
RT: 5.51 min Scan# 714
Delta R.T. -0.00 min
Lab File: VX005929.D
Acq: 13 Nov 2018 04:52

Tgt Ion:113 Resp: 51020
Ion Ratio Lower Upper
113 100
111 103.7 82.3 123.5
192 23.7 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

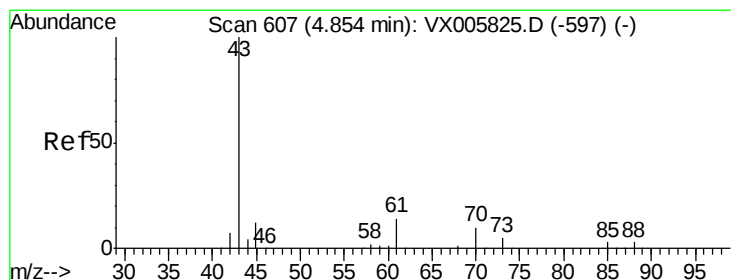
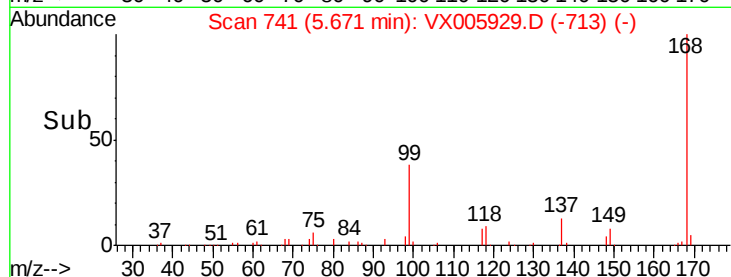
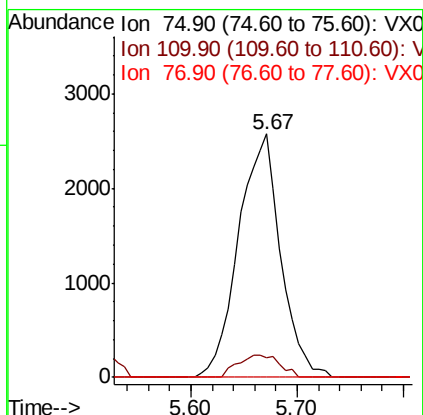
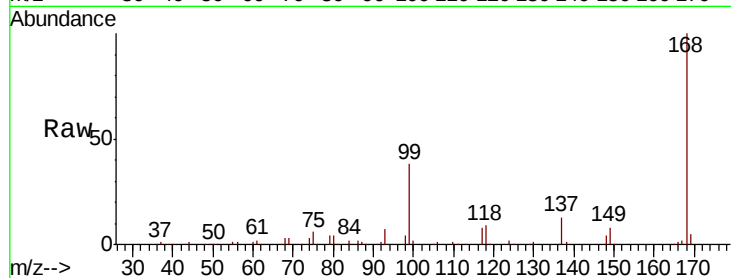




#36
 1,1-Dichloropropene
 Concen: 4.940 ug/l
 RT: 5.67 min Scan# 741
 Delta R.T. -0.13 min
 Lab File: VX005929.D
 Acq: 13 Nov 2018 04:52

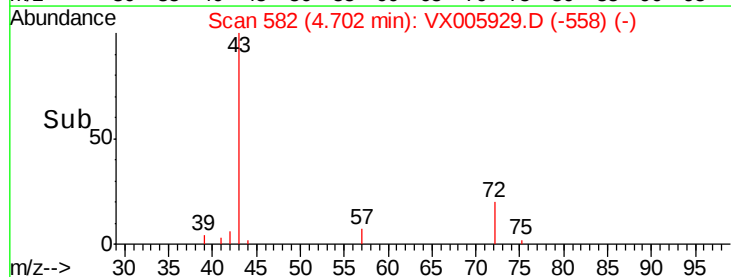
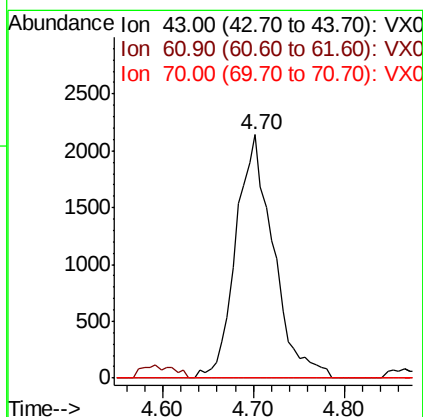
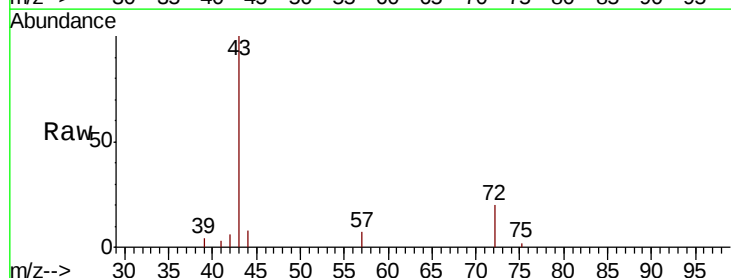
Instrument :
 MSVOA_X
 ClientSampleId :
 DW-4

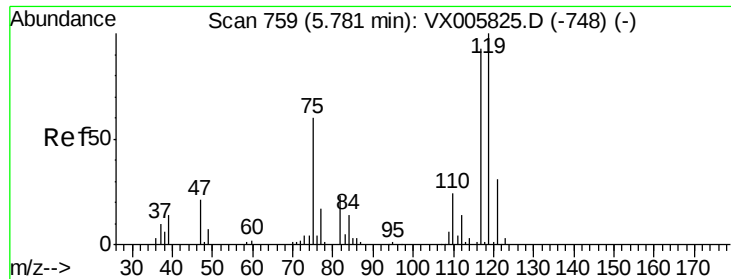
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.1	17.4	52.2#
77	0.0	25.8	38.6#



#37
 Ethyl Acetate
 Concen: 3.244 ug/l
 RT: 4.70 min Scan# 582
 Delta R.T. -0.15 min
 Lab File: VX005929.D
 Acq: 13 Nov 2018 04:52

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

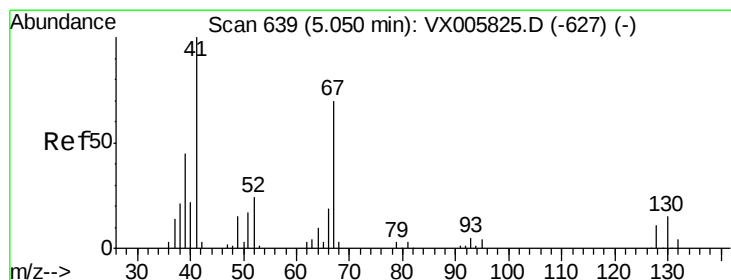
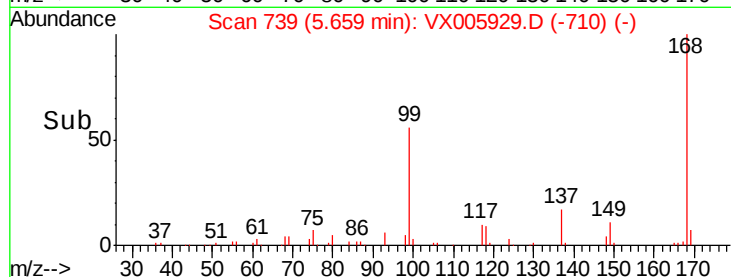
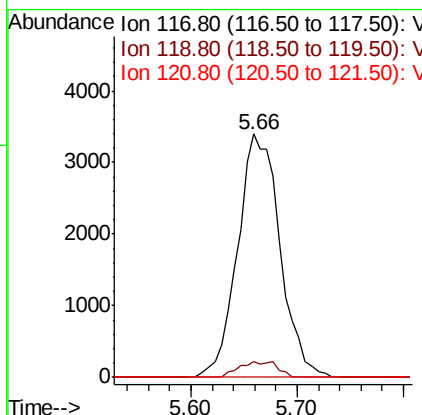
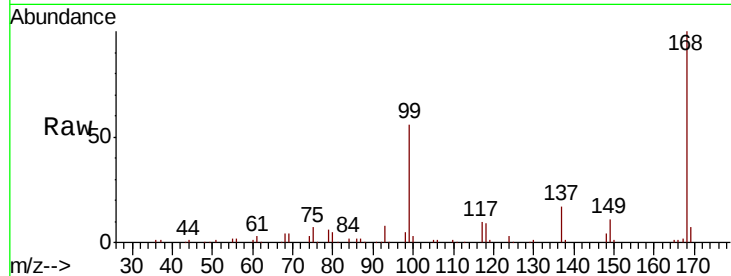




#38
Carbon Tetrachloride
Concen: 6.552 ug/l
RT: 5.66 min Scan# 739
Delta R.T. -0.12 min
Lab File: VX005929.D
Acq: 13 Nov 2018 04:52

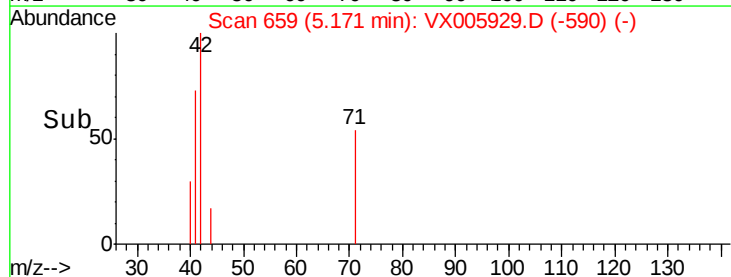
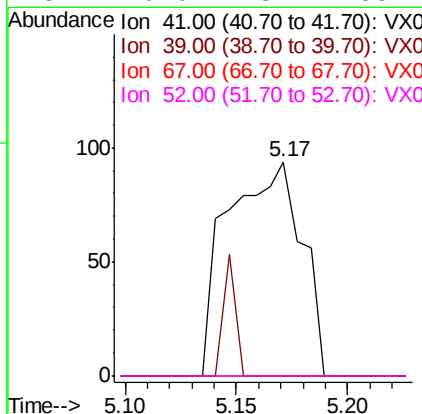
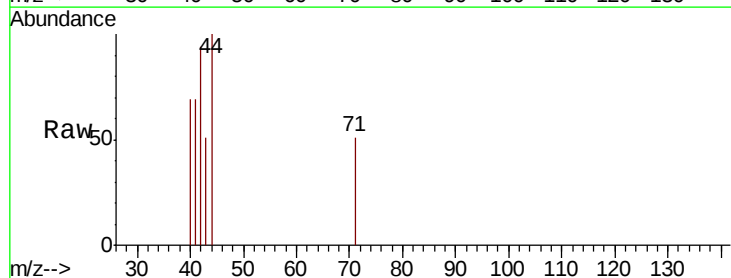
Instrument :
MSVOA_X
ClientSampled :
DW-4

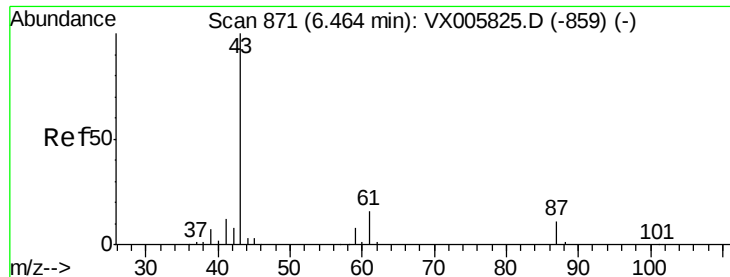
Tot Ion:117 Resp: 9472
Ion Ratio Lower Upper
117 100
119 6.5 78.1 117.1#
121 0.0 24.6 36.8#



#41
Methacrylonitrile
Concen: 0.211 ug/l
RT: 5.17 min Scan# 659
Delta R.T. 0.12 min
Lab File: VX005929.D
Acq: 13 Nov 2018 04:52

Tgt Ion: 41 Resp: 217
Ion Ratio Lower Upper
41 100
39 0.0 42.2 63.2#
67 0.0 53.4 80.0#
52 0.0 23.4 35.2#



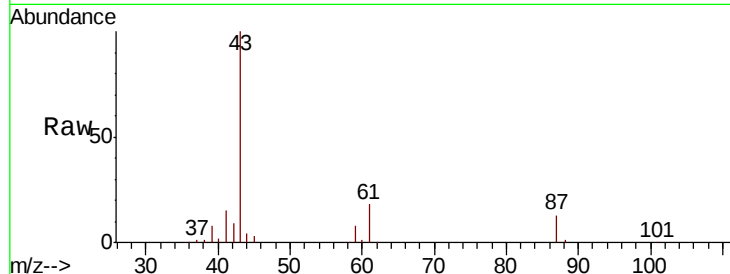


#43

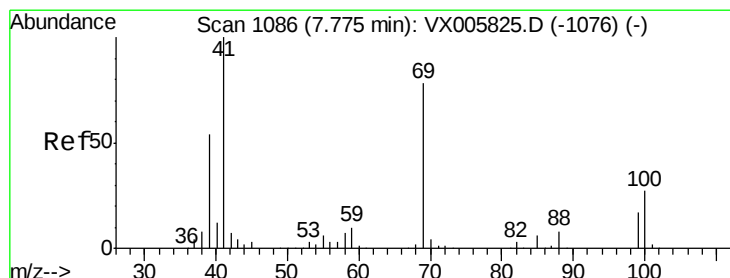
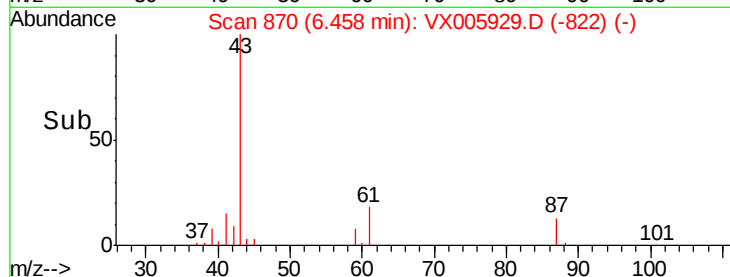
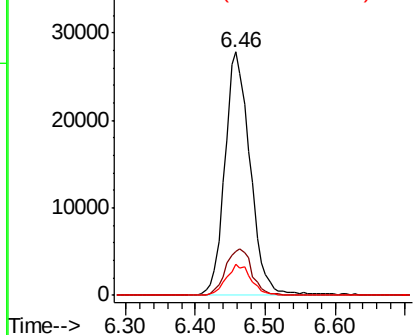
Isopropyl Acetate
 Concen: 25.443 ug/l
 RT: 6.46 min Scan# 870
 Delta R.T. -0.01 min
 Lab File: VX005929.D
 Acq: 13 Nov 2018 04:52

Instrument :
 MSVOA_X
 ClientSampleId :
 DW-4

Tot Ion: 43 Resp: 70011
 Ion Ratio Lower Upper
 43 100
 61 19.8 14.6 22.0
 87 12.4 9.6 14.4



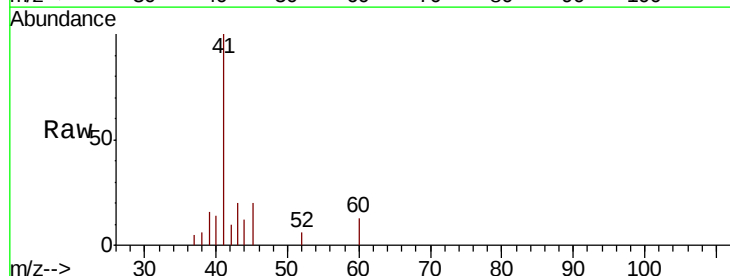
Abundance Ion 43.00 (42.70 to 43.70): VX0
 Ion 61.00 (60.70 to 61.70): VX0
 Ion 87.00 (86.70 to 87.70): VX0



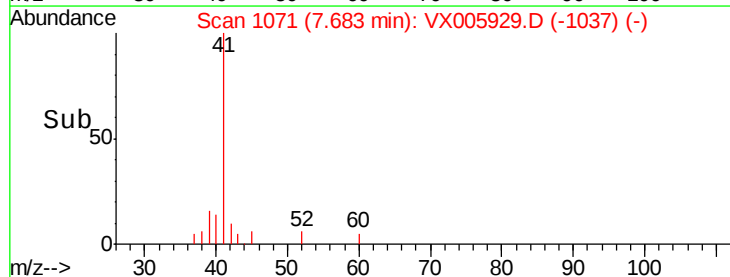
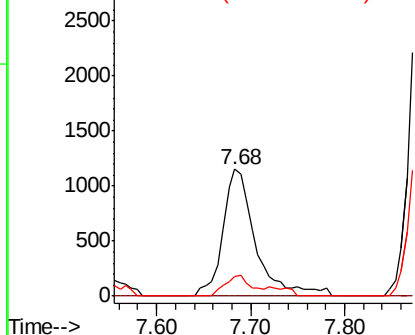
#48

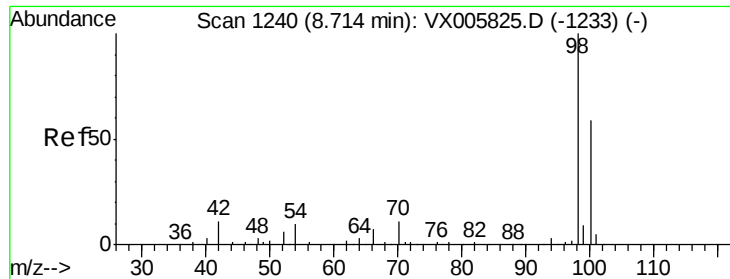
Methyl methacrylate
 Concen: 2.249 ug/l
 RT: 7.68 min Scan# 1071
 Delta R.T. -0.09 min
 Lab File: VX005929.D
 Acq: 13 Nov 2018 04:52

Tgt Ion: 41 Resp: 2779
 Ion Ratio Lower Upper
 41 100
 69 0.0 63.2 94.8#
 39 13.0 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: 52.034 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX005929.D

Acq: 13 Nov 2018 04:52

Instrument :

MSVOA_X

ClientSampled :

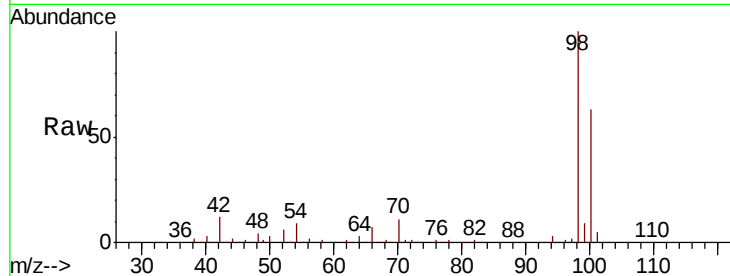
DW-4

Tot Ion: 98 Resp: 176254

Ion Ratio Lower Upper

98 100

100 62.8 51.3 76.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

8.71

120000

100000

80000

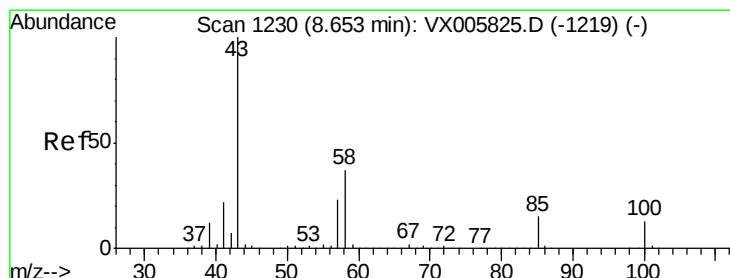
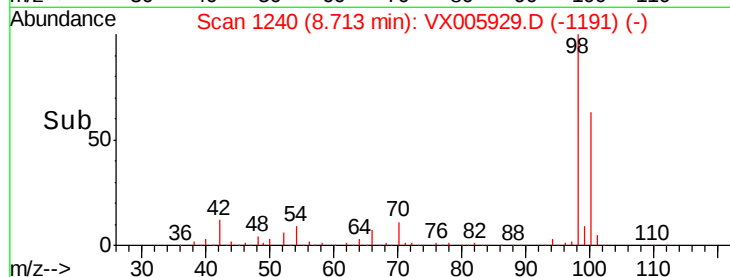
60000

40000

20000

0

Time--> 8.60 8.70 8.80 8.90



#51

4-Methyl-2-Pentanone

Concen: 1.999 ug/l

RT: 8.65 min Scan# 1230

Delta R.T. -0.00 min

Lab File: VX005929.D

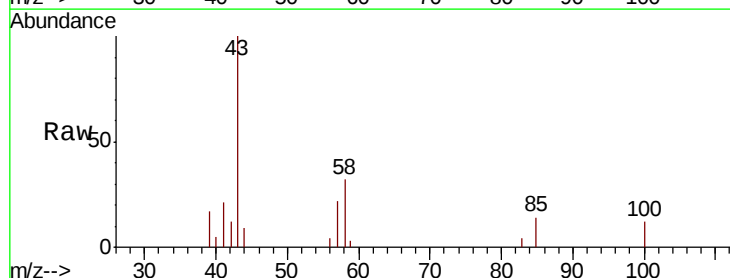
Acq: 13 Nov 2018 04:52

Tgt Ion: 43 Resp: 3467

Ion Ratio Lower Upper

43 100

58 25.9 29.7 44.5#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

8.65

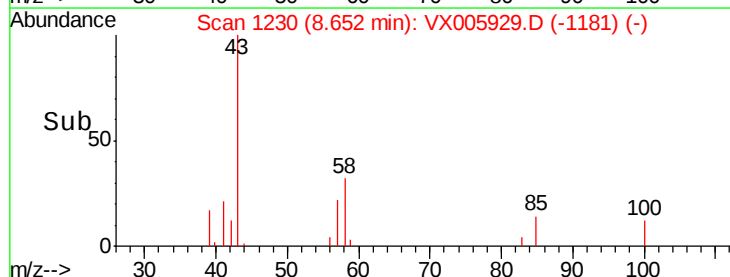
1500

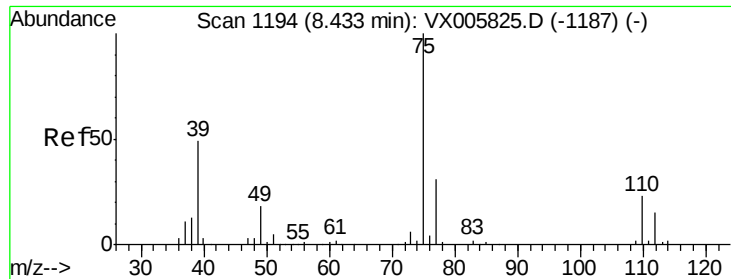
1000

500

0

Time--> 8.50 8.55 8.60 8.65 8.70



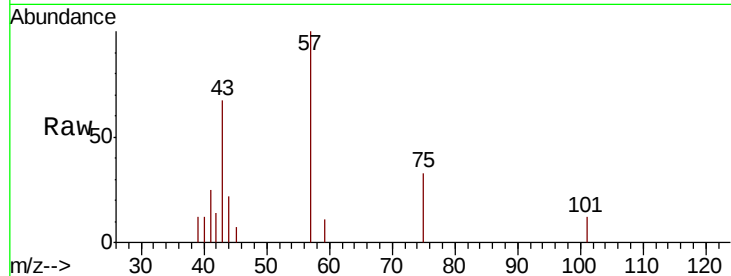


#54

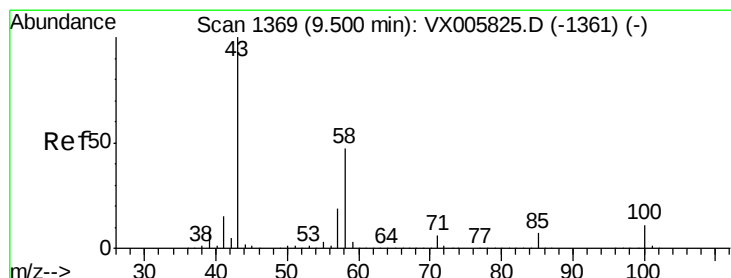
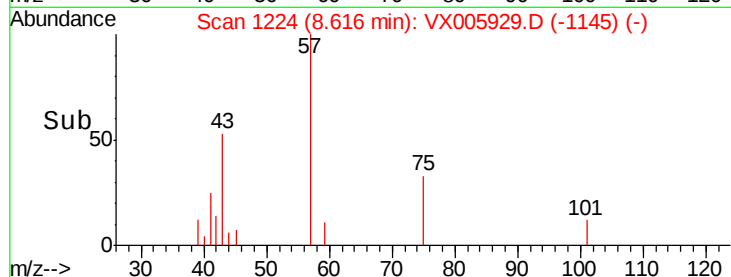
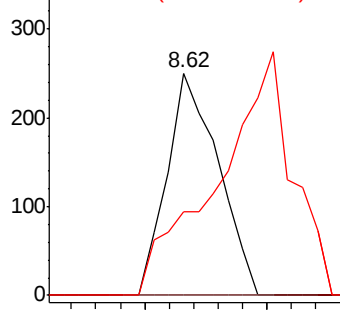
cis-1,3-Dichloropropene
 Concen: 0.251 ug/l
 RT: 8.62 min Scan# 1224
 Delta R.T. 0.18 min
 Lab File: VX005929.D
 Acq: 13 Nov 2018 04:52

Instrument :
 MSVOA_X
 ClientSampled :
 DW-4

Tot Ion: 75 Resp: 366
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.2 37.8#
 39 37.6 38.2 57.2#



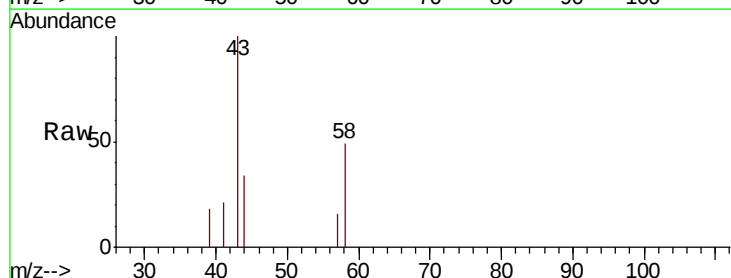
Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 76.90 (76.60 to 77.60): VX0
 Ion 39.00 (38.70 to 39.70): VX0



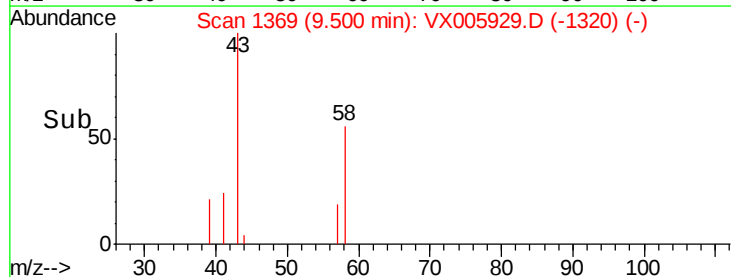
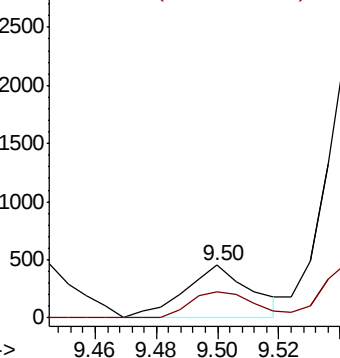
#59

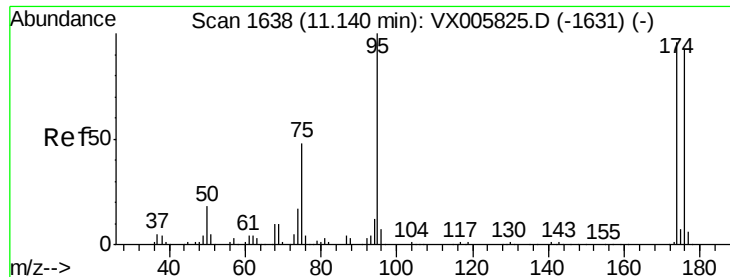
2-Hexanone
 Concen: 0.444 ug/l
 RT: 9.50 min Scan# 1369
 Delta R.T. -0.00 min
 Lab File: VX005929.D
 Acq: 13 Nov 2018 04:52

Tgt Ion: 43 Resp: 678
 Ion Ratio Lower Upper
 43 100
 58 49.7 25.9 77.8



Abundance Ion 43.00 (42.70 to 43.70): VX0
 Ion 58.00 (57.70 to 58.70): VX0





#62

4-Bromofluorobenzene

Concen: 48.140 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.00 min

Lab File: VX005929.D

Acq: 13 Nov 2018 04:52

Instrument :

MSVOA_X

ClientSampleId :

DW-4

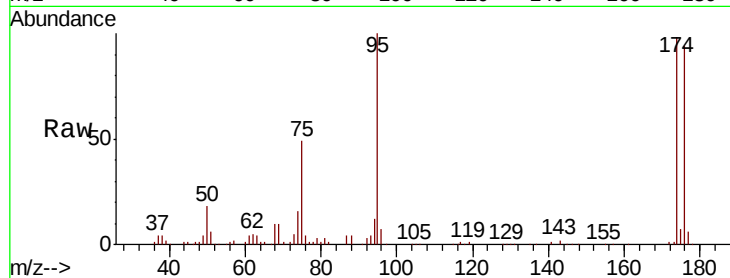
Tot Ion: 95 Resp: 58628

Ion Ratio Lower Upper

95 100

174 92.6 0.0 184.4

176 89.8 0.0 177.4

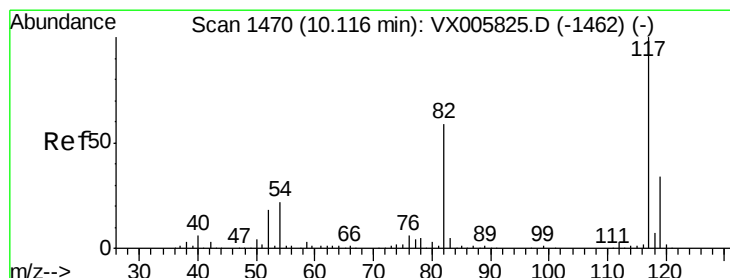
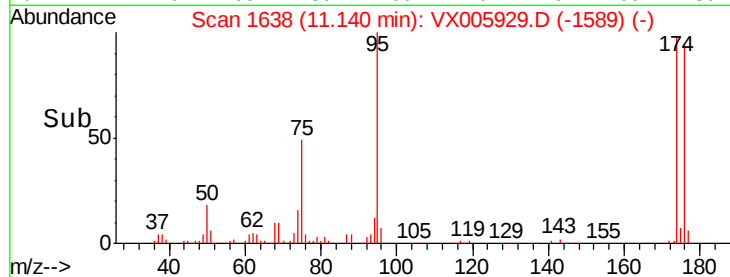


Abundance Ion 94.90 (94.60 to 95.60): VX005825.D (-1631) (-)

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

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

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. -0.00 min

Lab File: VX005929.D

Acq: 13 Nov 2018 04:52

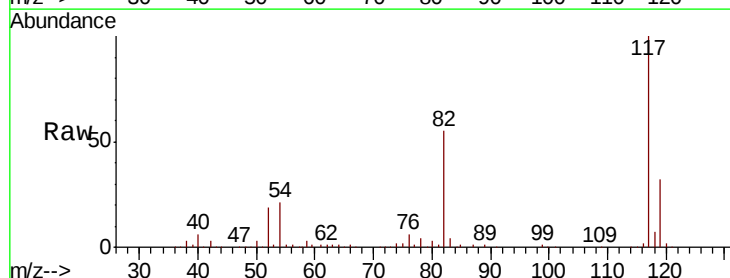
Tgt Ion: 117 Resp: 133731

Ion Ratio Lower Upper

117 100

82 54.7 44.1 66.1

119 31.7 26.2 39.2

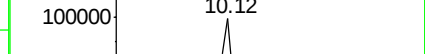
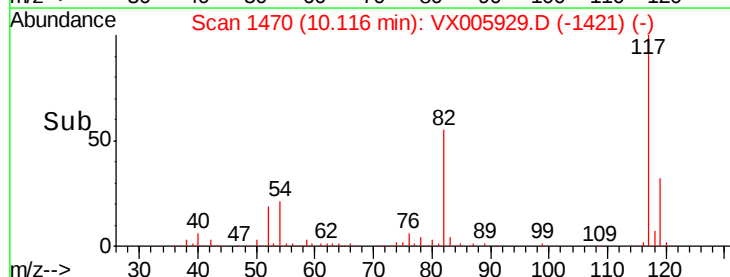


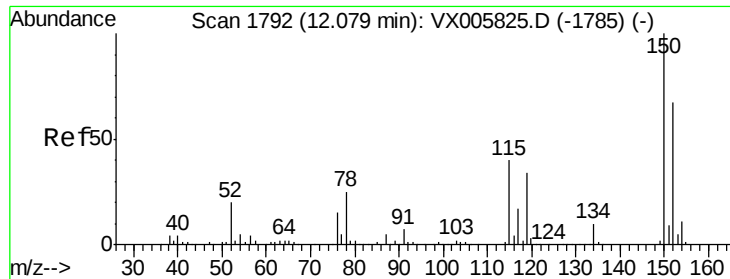
Abundance Ion 116.90 (116.60 to 117.60): VX005825.D (-1462) (-)

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

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

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX005929.D

Acq: 13 Nov 2018 04:52

Instrument :

MSVOA_X

ClientSampleId :

DW-4

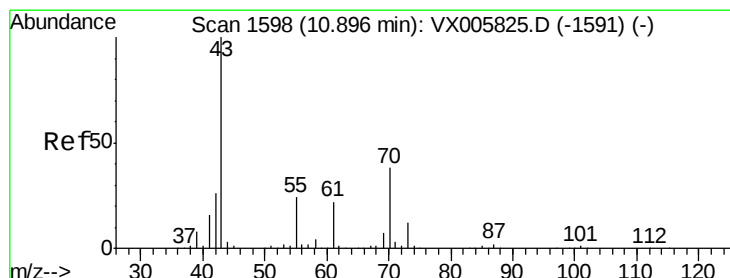
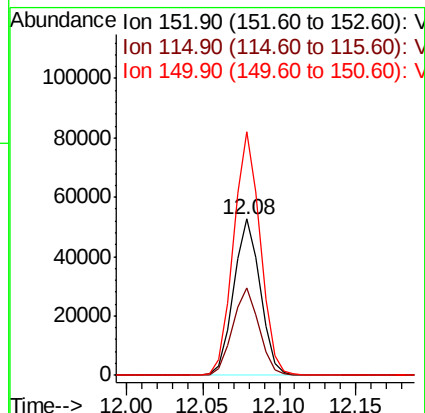
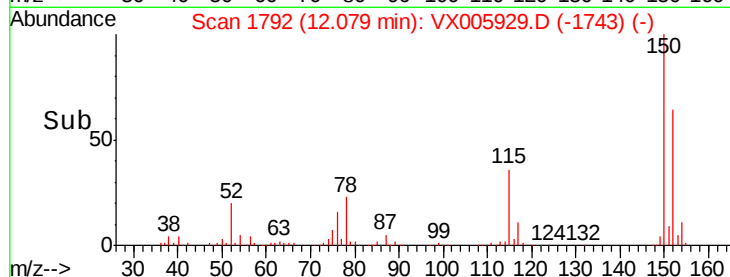
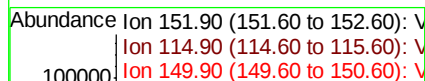
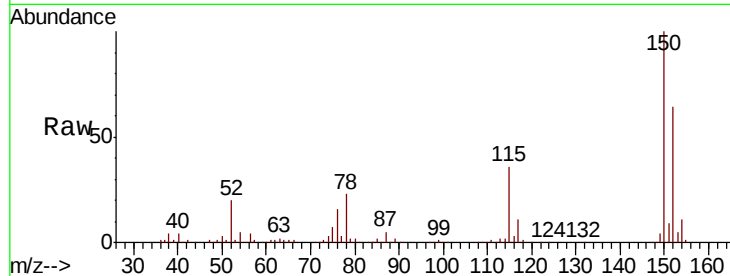
Tot Ion:152 Resp: 63172

Ion Ratio Lower Upper

152 100

115 55.6 39.4 118.1

150 156.5 0.0 346.4



#74

N-ethyl acetate

Concen: 1.280 ug/l

RT: 10.94 min Scan# 1605

Delta R.T. 0.04 min

Lab File: VX005929.D

Acq: 13 Nov 2018 04:52

Tgt Ion: 43 Resp: 62

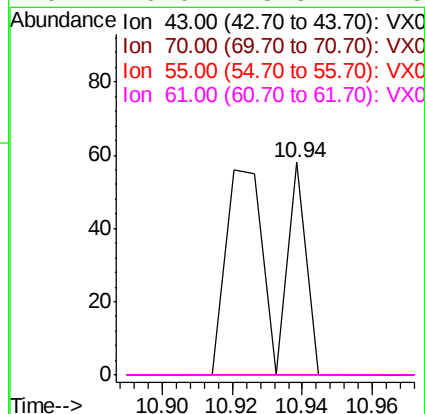
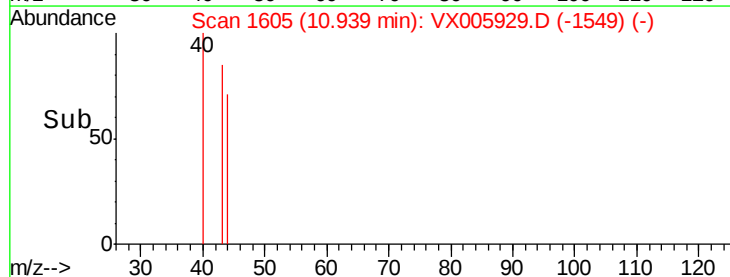
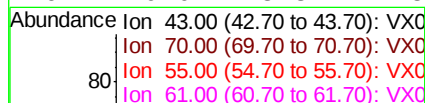
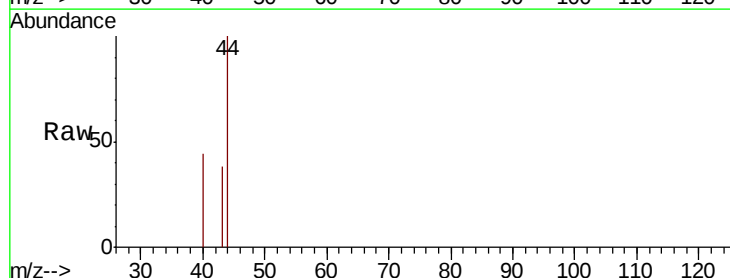
Ion Ratio Lower Upper

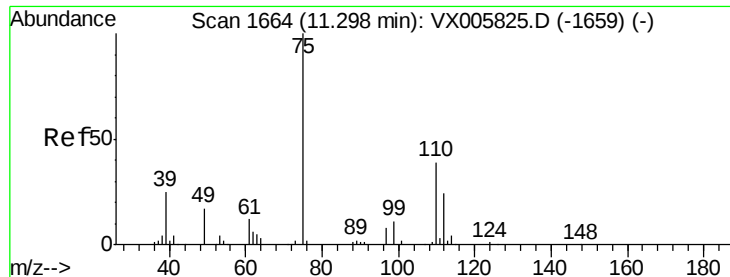
43 100

70 0.0 31.6 47.4#

55 0.0 19.7 29.5#

61 0.0 18.3 27.5#





#76

1,2,3-Trichloropropane

Concen: 22.959 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX005929.D

Acq: 13 Nov 2018 04:52

Instrument :

MSVOA_X

ClientSampled :

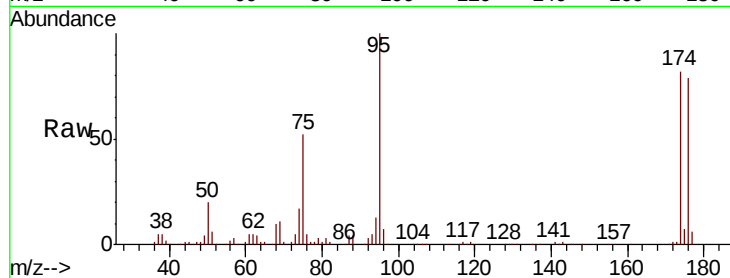
DW-4

Tot Ion: 75 Resp: 29532

Ion Ratio Lower Upper

75 100

77 1.3 20.5 61.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

25000

20000

15000

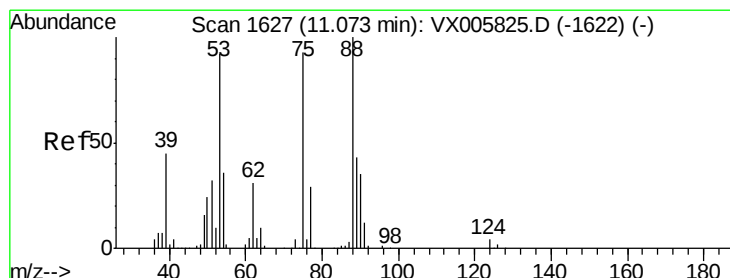
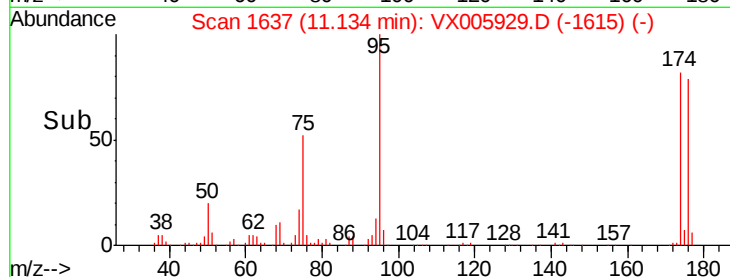
10000

5000

0

11.05 11.10 11.15 11.20

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 73.173 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX005929.D

Acq: 13 Nov 2018 04:52

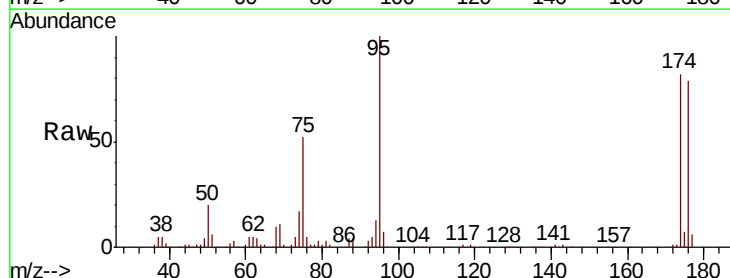
Tgt Ion: 75 Resp: 29532

Ion Ratio Lower Upper

75 100

53 0.1 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

30000

25000

20000

15000

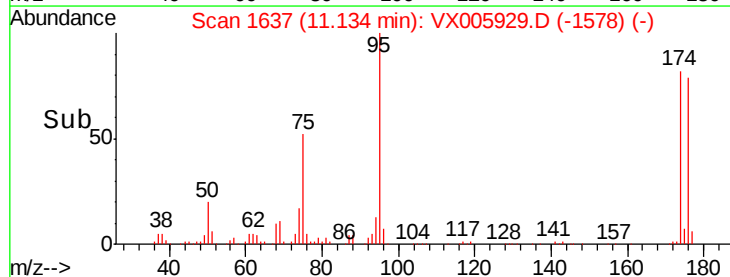
10000

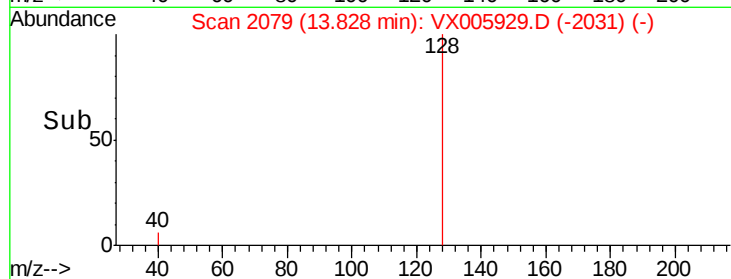
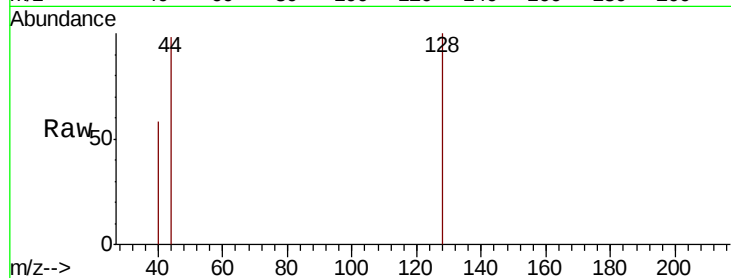
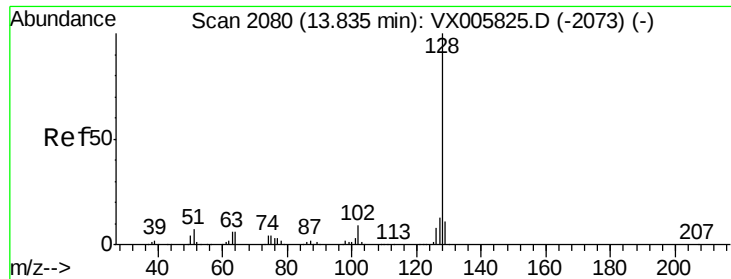
5000

0

11.05 11.10 11.15 11.20

Time-->





#95

Naphthalene

Concen: 1.204 ug/l

RT: 13.83 min Scan# 2079

Delta R.T. -0.01 min

Lab File: VX005929.D

Acq: 13 Nov 2018 04:52

Instrument :

MSVOA_X

ClientSampleId :

DW-4

Tot Ion:128 Resp: 126

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

129 0.0 8.7 13.1#

