

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092618\
 Data File : VU027178.D
 Acq On : 26 Sep 2018 15:27
 Operator : MD/SY
 Sample : J5049-05
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MW-FOS4-SEP18

Quant Time: Sep 27 01:07:18 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U092218W.M
 Quant Title : SW846 8260
 QLast Update : Sat Sep 22 01:31:57 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	96061	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	162730	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	161327	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	74554	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.31	65	100879	52.18	ug/l	0.00
Spiked Amount			Recovery	=	104.36%	
35) Dibromofluoromethane	4.88	113	70168	49.75	ug/l	0.00
Spiked Amount			Recovery	=	99.50%	
50) Toluene-d8	7.57	98	259077	48.19	ug/l	0.00
Spiked Amount			Recovery	=	96.38%	
62) 4-Bromofluorobenzene	10.31	95	87494	47.43	ug/l	0.00
Spiked Amount			Recovery	=	94.86%	

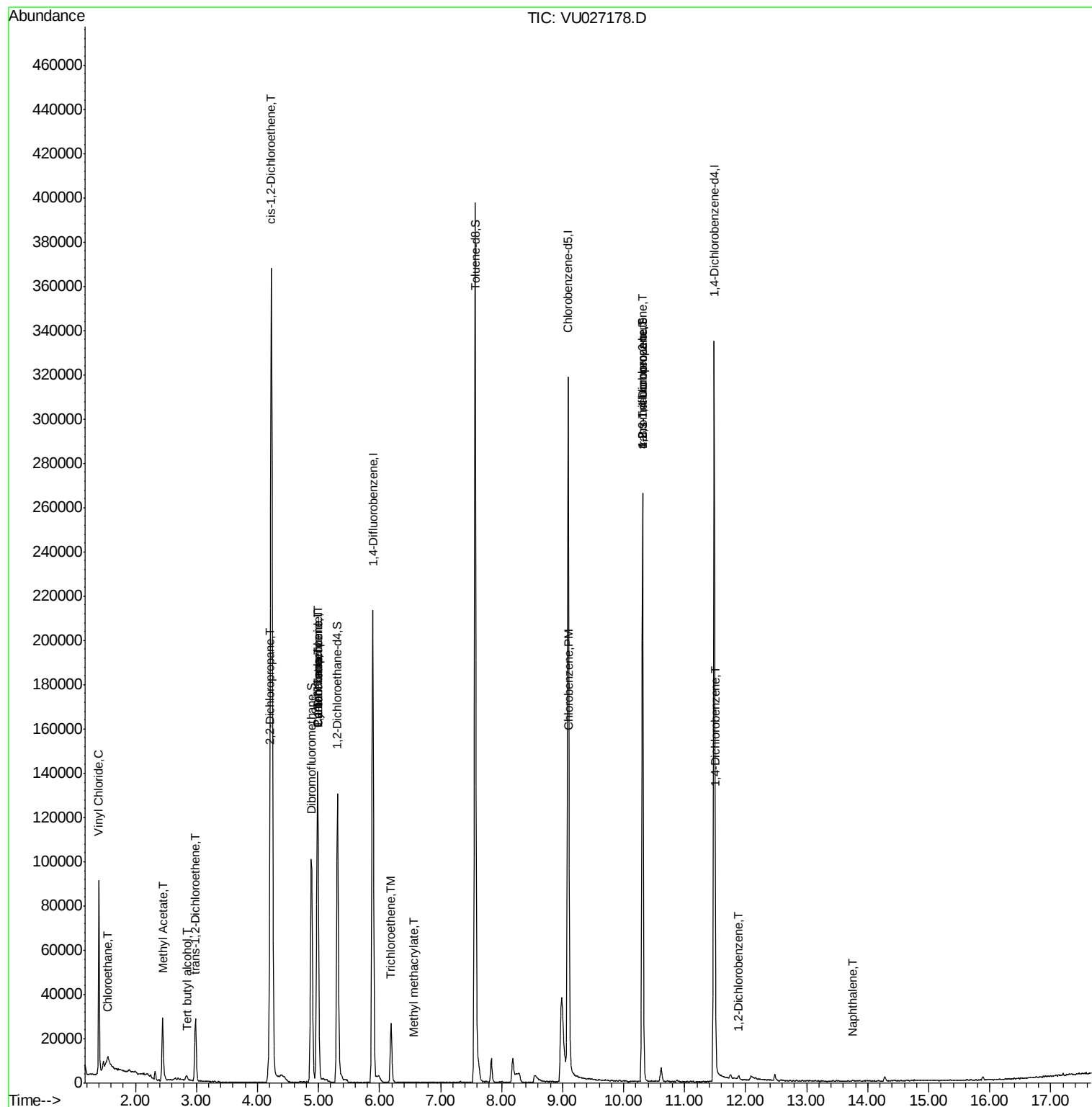
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.40	62	54877	27.187	ug/l	100
6) Chloroethane	1.55	64	13670	10.599	ug/l #	55
11) Tert butyl alcohol	2.84	59	1682	3.796	ug/l #	72
16) Acetone	2.32	43	4625	Below Cal		94
18) Methyl Acetate	2.45	43	7058	2.565	ug/l #	55
21) trans-1,2-Dichloroethene	2.99	96	10050	7.095	ug/l	99
26) 2,2-Dichloropropane	4.20	77	1216	0.492	ug/l #	55
27) cis-1,2-Dichloroethene	4.23	96	186696	116.706	ug/l	92
31) Cyclohexane	4.98	56	2695	0.364	ug/l #	1
36) 1,1-Dichloropropene	4.99	75	9582	4.412	ug/l #	49
38) Carbon Tetrachloride	4.99	117	10236	4.953	ug/l #	18
44) Trichloroethene	6.19	130	8626	6.137	ug/l	99
48) Methyl methacrylate	6.56	41	41	1.029	ug/l #	17
65) Chlorobenzene	9.12	112	1263	0.295	ug/l	100
76) 1,2,3-Trichloropropane	10.31	75	46795	20.661	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.31	75	46795	66.118	ug/l #	100
88) 1,4-Dichlorobenzene	11.51	146	1089	0.387	ug/l #	25
91) 1,2-Dichlorobenzene	11.88	146	772	0.282	ug/l	97
95) Naphthalene	13.76	128	189	1.719	ug/l #	69

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. 0.00 min

Lab File: VU027178.D

Acq: 26 Sep 2018 15:27

Instrument :

MSVOA_U

ClientSampleId :

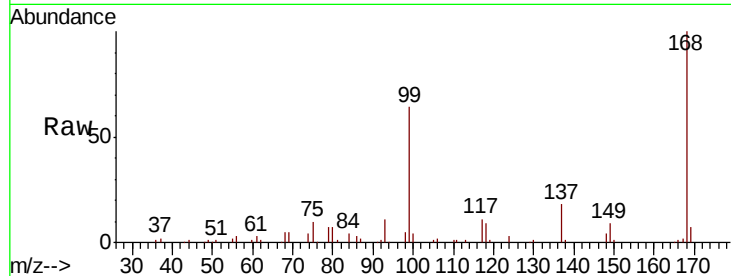
MW-FOS4-SEP18

Tgt Ion:168 Resp: 96061

Ion Ratio Lower Upper

168 100

99 63.5 48.1 72.1



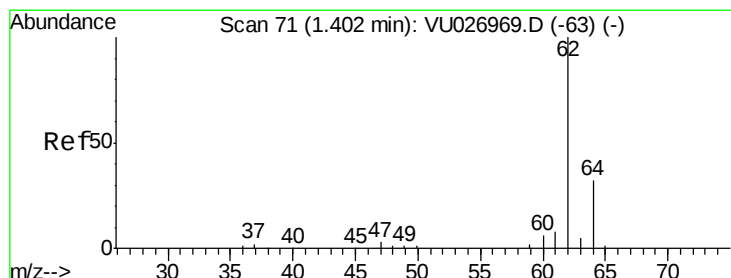
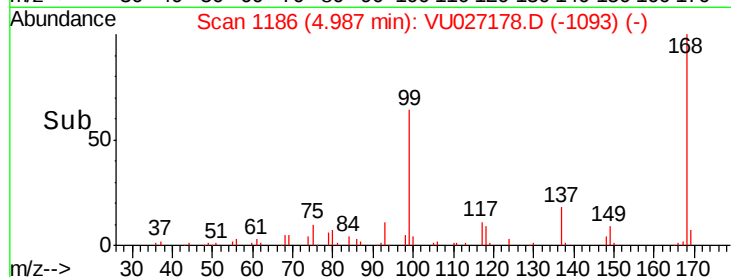
Abundance Ion 167.90 (167.60 to 168.60): VU026969.D (-1169) (-)

Ion 98.90 (98.60 to 99.60): VU026969.D (-1169) (-)

4.99

4.95 5.00 5.05

Time-->



#4

Vinyl Chloride

Concen: 27.187 ug/l

RT: 1.40 min Scan# 71

Delta R.T. 0.00 min

Lab File: VU027178.D

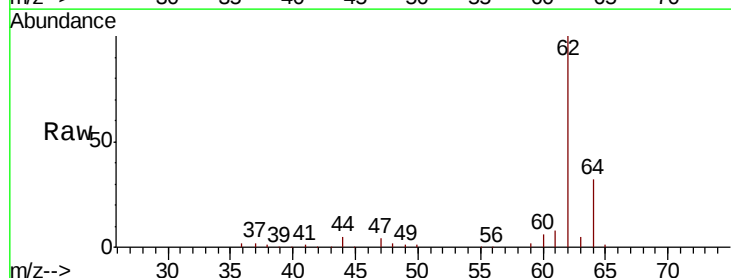
Acq: 26 Sep 2018 15:27

Tgt Ion: 62 Resp: 54877

Ion Ratio Lower Upper

62 100

64 31.9 25.5 38.3



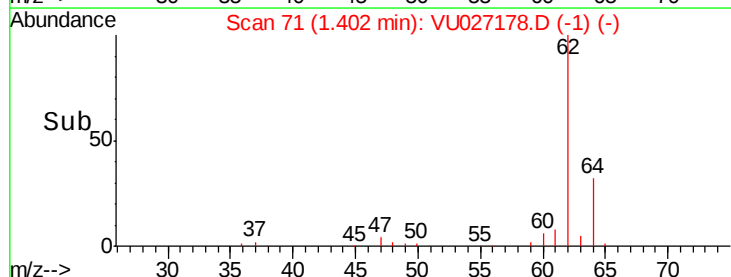
Abundance Ion 61.90 (61.60 to 62.60): VU026969.D (-63) (-)

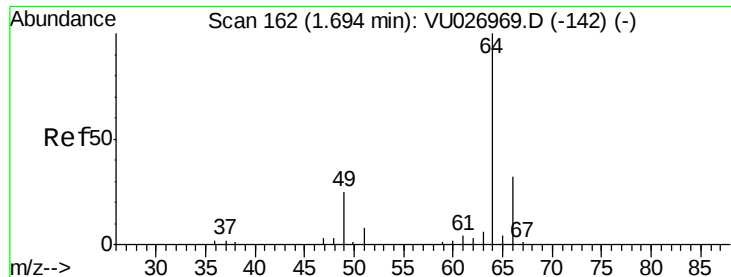
Ion 63.90 (63.60 to 64.60): VU026969.D (-63) (-)

1.40

1.35 1.40 1.45

Time-->





#6

Chloroethane

Concen: 10.599 ug/l

RT: 1.55 min Scan# 118

Delta R.T. -0.14 min

Lab File: VU027178.D

Acq: 26 Sep 2018 15:27

Instrument :

MSVOA_U

ClientSampleId :

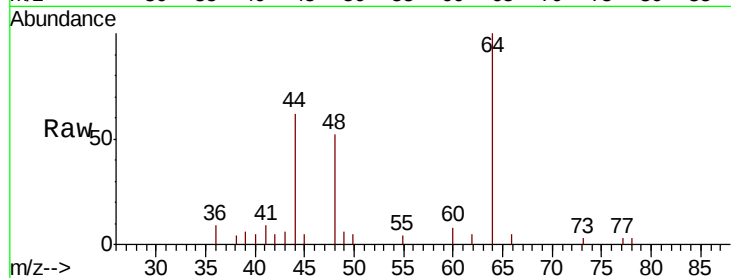
MW-FOS4-SEP18

Tgt Ion: 64 Resp: 13670

Ion Ratio Lower Upper

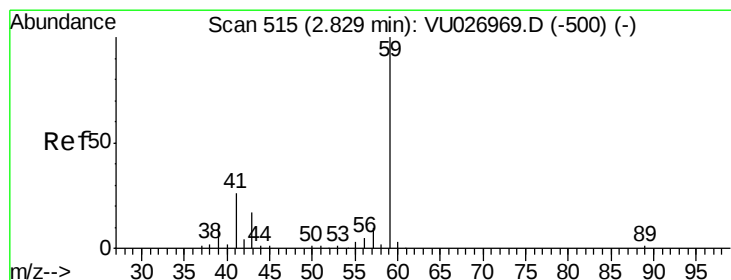
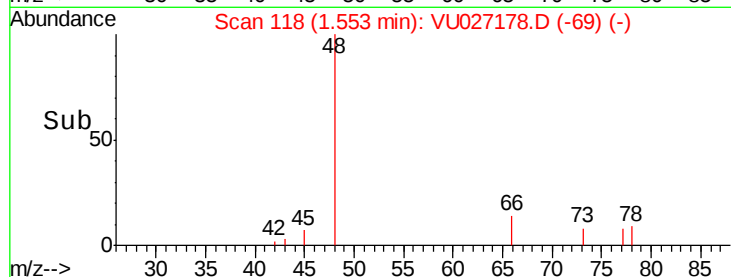
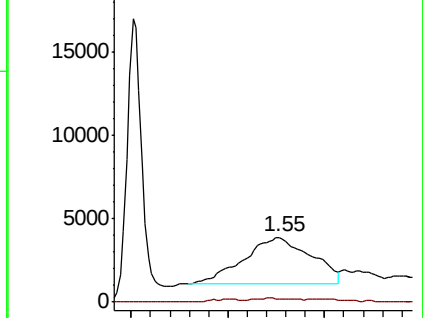
64 100

66 6.9 25.3 37.9#



Abundance Ion 63.90 (63.60 to 64.60): VU027178.D (-69) (-)

Ion 65.90 (65.60 to 66.60): VU027178.D (-69) (-)



#11

Tert butyl alcohol

Concen: 3.796 ug/l

RT: 2.84 min Scan# 519

Delta R.T. 0.01 min

Lab File: VU027178.D

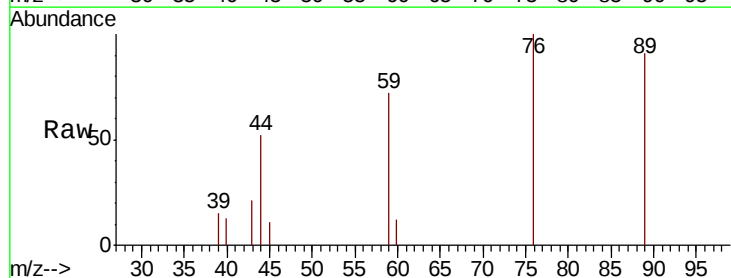
Acq: 26 Sep 2018 15:27

Tgt Ion: 59 Resp: 1682

Ion Ratio Lower Upper

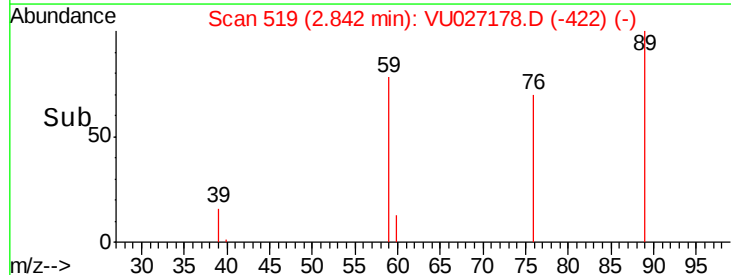
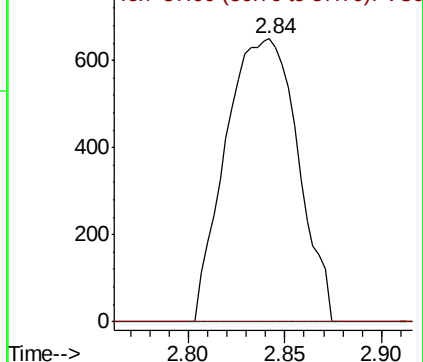
59 100

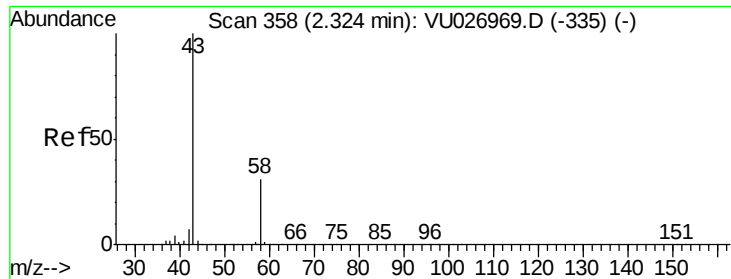
57 0.0 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VU027178.D (-422) (-)

Ion 57.00 (56.70 to 57.70): VU027178.D (-422) (-)





#16

Acetone

Concen: Below Cal

RT: 2.32 min Scan# 358

Delta R.T. 0.00 min

Lab File: VU027178.D

Acq: 26 Sep 2018 15:27

Instrument :

MSVOA_U

ClientSampleId :

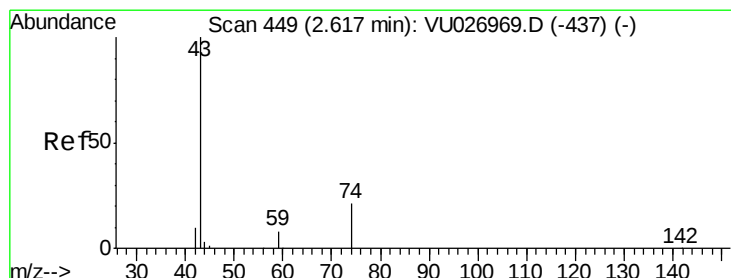
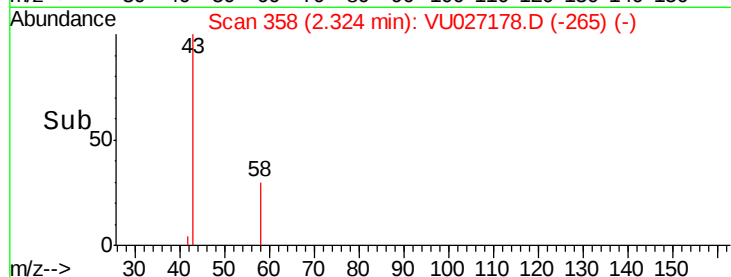
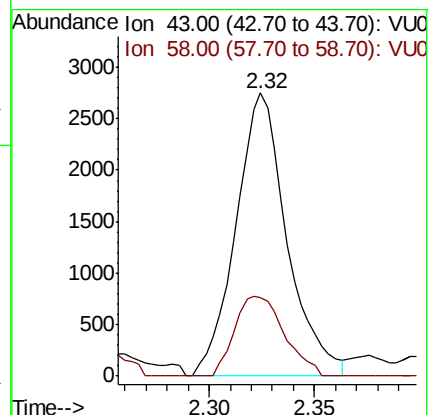
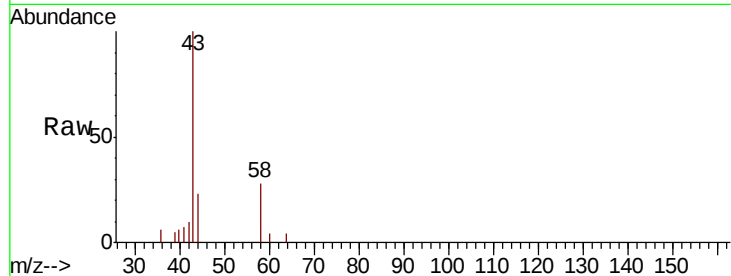
MW-FOS4-SEP18

Tgt Ion: 43 Resp: 4625

Ion Ratio Lower Upper

43 100

58 27.6 24.6 36.8



#18

Methyl Acetate

Concen: 2.565 ug/l

RT: 2.45 min Scan# 396

Delta R.T. -0.17 min

Lab File: VU027178.D

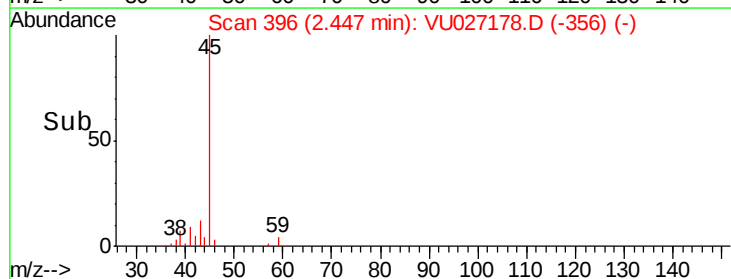
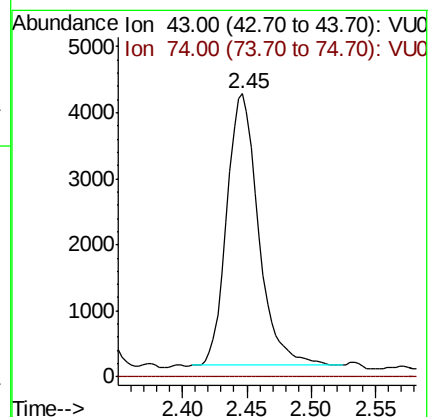
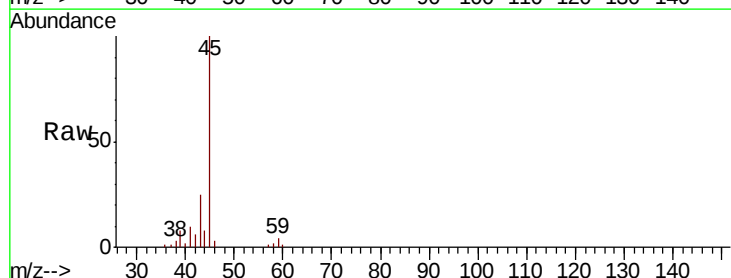
Acq: 26 Sep 2018 15:27

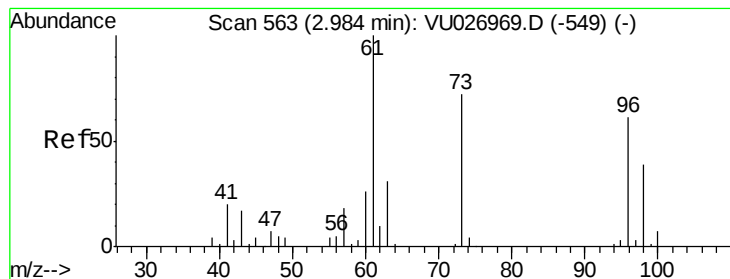
Tgt Ion: 43 Resp: 7058

Ion Ratio Lower Upper

43 100

74 0.0 16.6 25.0#





#21

trans-1,2-Dichloroethene

Concen: 7.095 ug/l

RT: 2.99 min Scan# 564

Delta R.T. 0.00 min

Lab File: VU027178.D

Acq: 26 Sep 2018 15:27

Instrument :

MSVOA_U

ClientSampleId :

MW-FOS4-SEP18

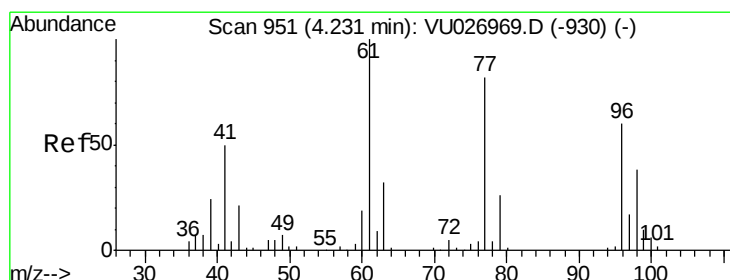
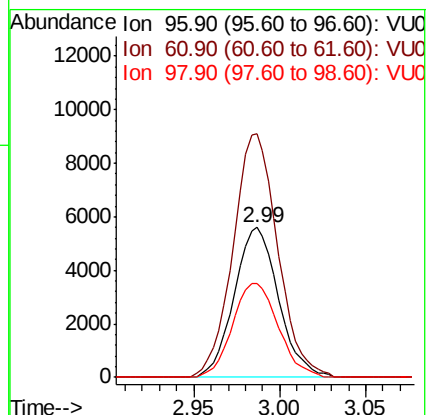
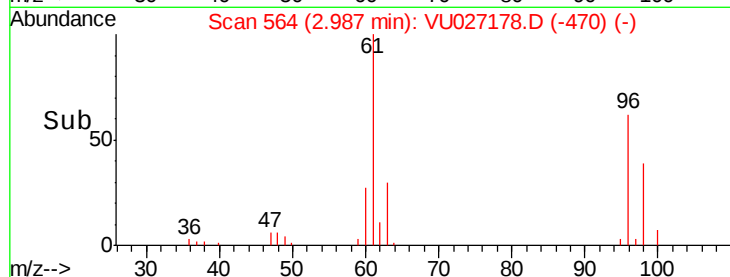
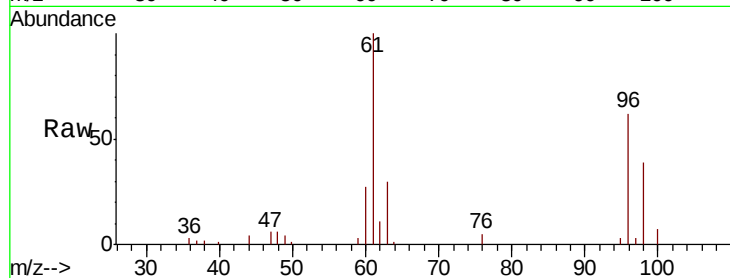
Tgt Ion: 96 Resp: 10050

Ion Ratio Lower Upper

96 100

61 162.4 131.8 197.6

98 63.0 50.9 76.3



#26

2,2-Dichloropropane

Concen: 0.492 ug/l

RT: 4.20 min Scan# 940

Delta R.T. -0.04 min

Lab File: VU027178.D

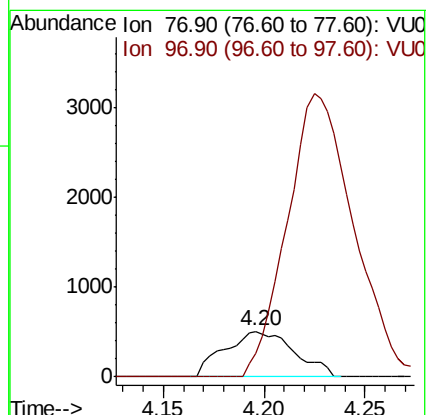
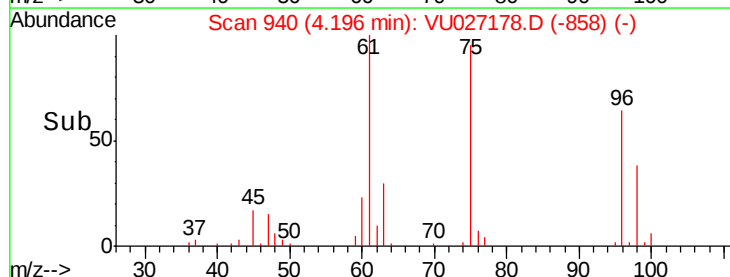
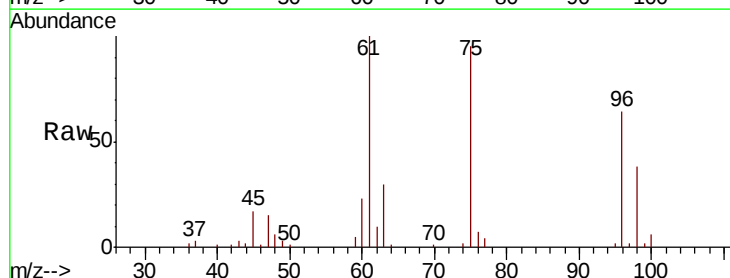
Acq: 26 Sep 2018 15:27

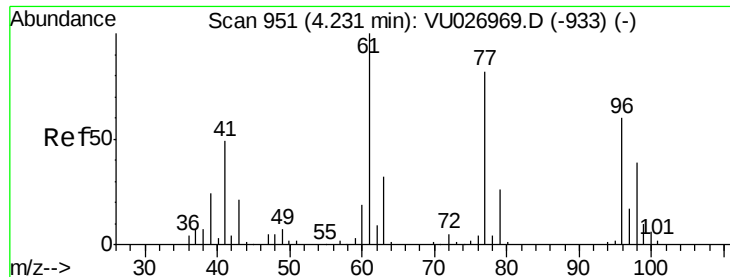
Tgt Ion: 77 Resp: 1216

Ion Ratio Lower Upper

77 100

97 0.0 10.5 31.5#



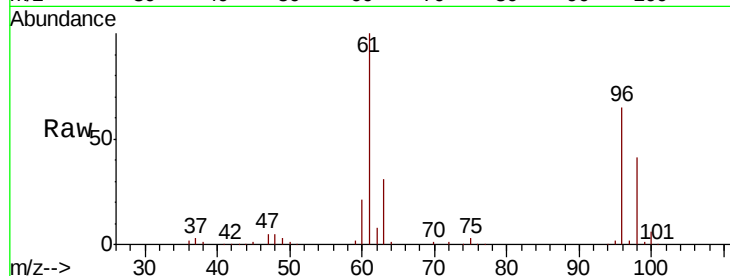


#27

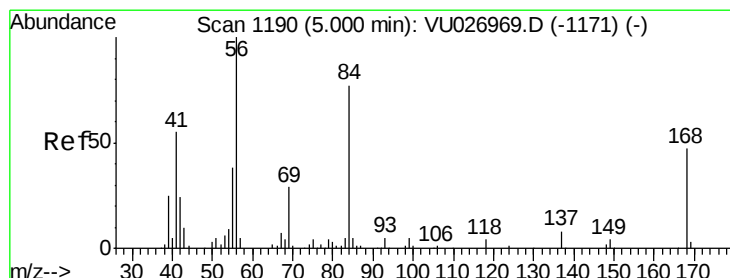
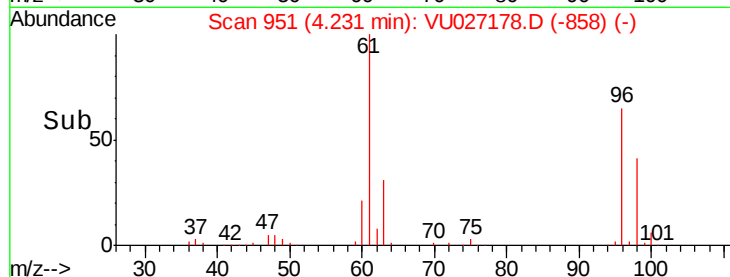
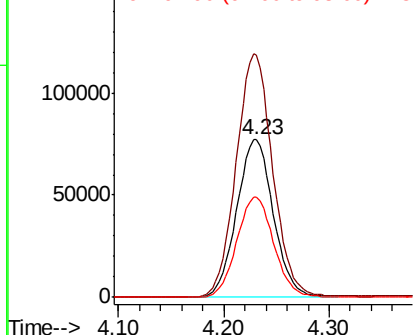
cis-1,2-Dichloroethene
 Concen: 116.706 ug/l
 RT: 4.23 min Scan# 951
 Delta R.T. 0.00 min
 Lab File: VU027178.D
 Acq: 26 Sep 2018 15:27

Instrument :
 MSVOA_U
 ClientSampleId :
 MW-FOS4-SEP18

Tgt Ion: 96 Resp: 186696
 Ion Ratio Lower Upper
 96 100
 61 154.1 0.0 337.2
 98 64.1 0.0 127.6



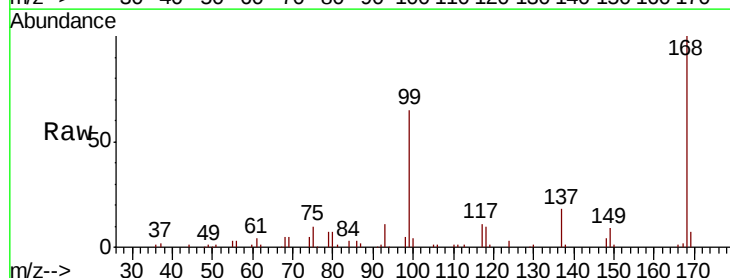
Abundance Ion 95.90 (95.60 to 96.60): VU0
 Ion 60.90 (60.60 to 61.60): VU0
 Ion 97.90 (97.60 to 98.60): VU0



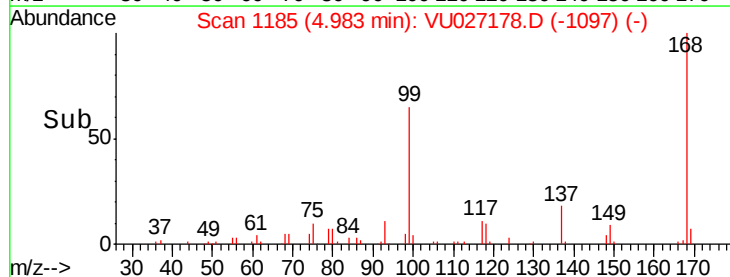
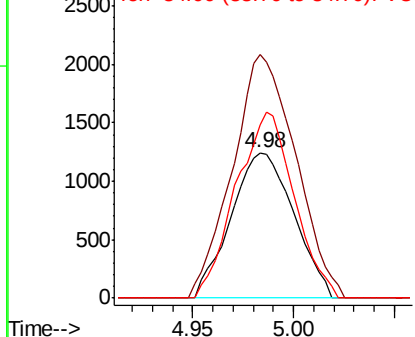
#31

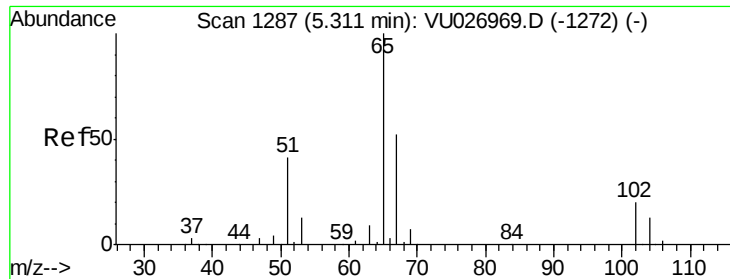
Cyclohexane
 Concen: 0.364 ug/l
 RT: 4.98 min Scan# 1185
 Delta R.T. -0.02 min
 Lab File: VU027178.D
 Acq: 26 Sep 2018 15:27

Tgt Ion: 56 Resp: 2695
 Ion Ratio Lower Upper
 56 100
 69 167.7 23.0 34.4#
 84 119.5 61.4 92.2#



Abundance Ion 56.00 (55.70 to 56.70): VU0
 Ion 69.00 (68.70 to 69.70): VU0
 Ion 84.00 (83.70 to 84.70): VU0

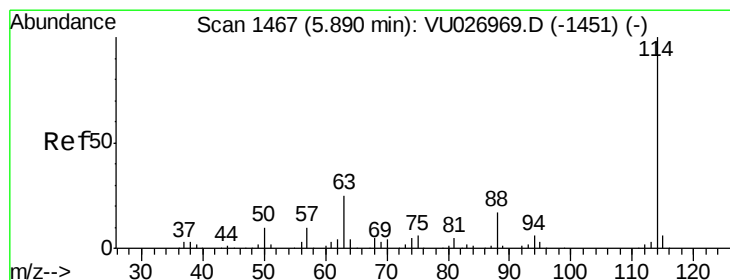
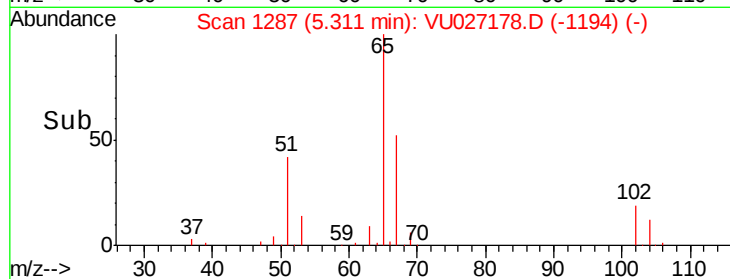
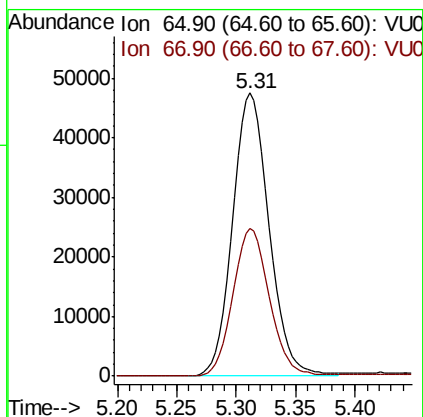
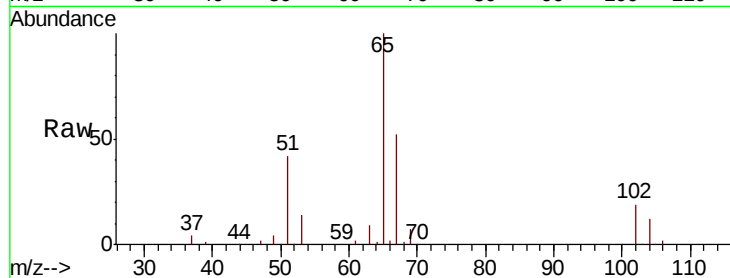




#33
 1,2-Dichloroethane-d4
 Concen: 52.177 ug/l
 RT: 5.31 min Scan# 1287
 Delta R.T. 0.00 min
 Lab File: VU027178.D
 Acq: 26 Sep 2018 15:27

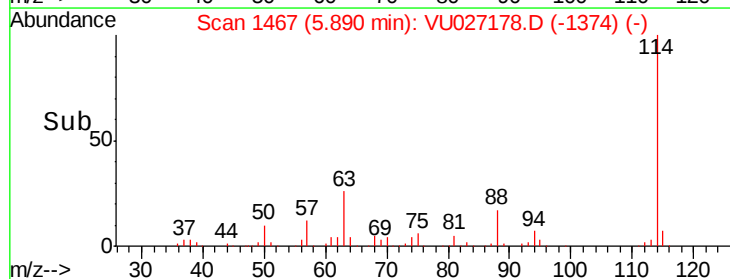
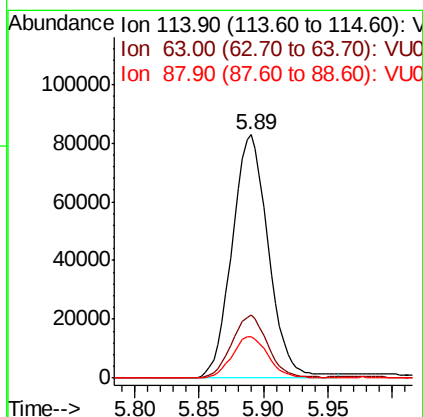
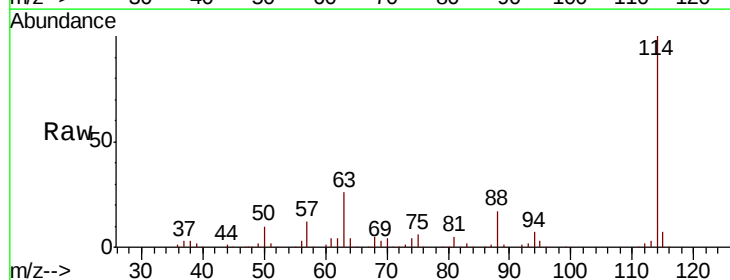
Instrument :
 MSVOA_U
 ClientSampleId :
 MW-FOS4-SEP18

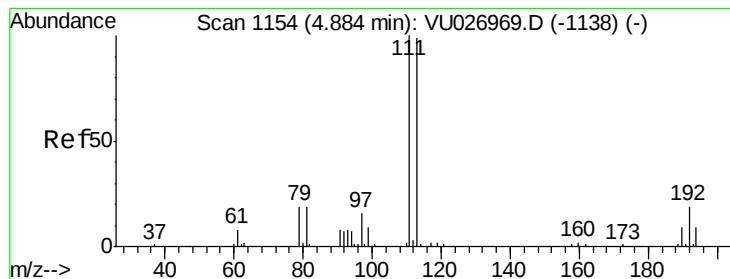
Tgt Ion: 65 Resp: 100879
 Ion Ratio Lower Upper
 65 100
 67 52.3 0.0 105.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1467
 Delta R.T. 0.00 min
 Lab File: VU027178.D
 Acq: 26 Sep 2018 15:27

Tgt Ion: 114 Resp: 162730
 Ion Ratio Lower Upper
 114 100
 63 25.7 0.0 49.2
 88 17.2 0.0 33.8





#35

Dibromofluoromethane

Concen: 49.745 ug/l

RT: 4.88 min Scan# 1154

Delta R.T. 0.00 min

Lab File: VU027178.D

Acq: 26 Sep 2018 15:27

Instrument :

MSVOA_U

ClientSampleId :

MW-FOS4-SEP18

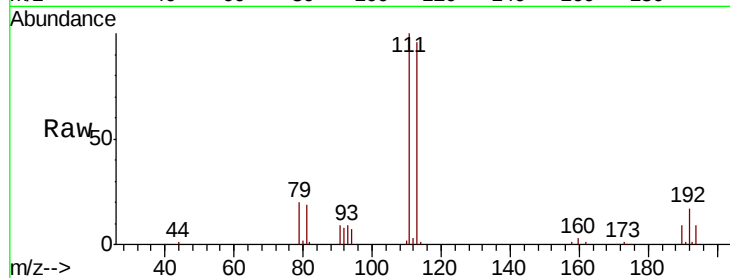
Tgt Ion:113 Resp: 70168

Ion Ratio Lower Upper

113 100

111 102.0 82.2 123.4

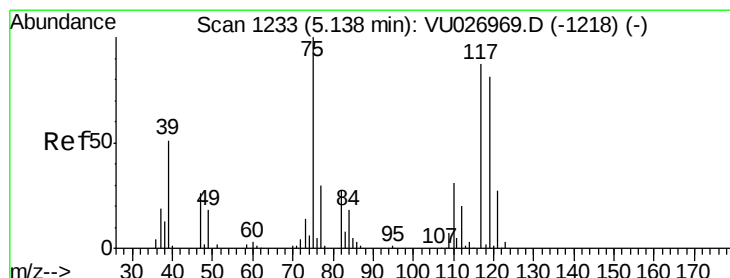
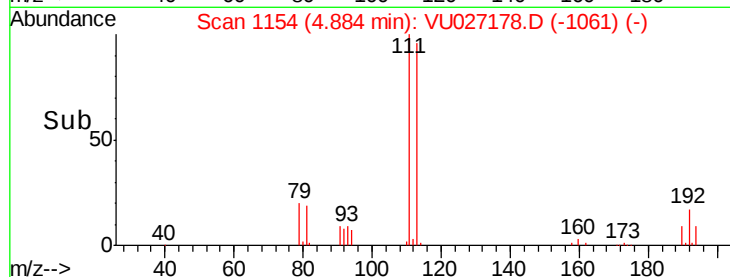
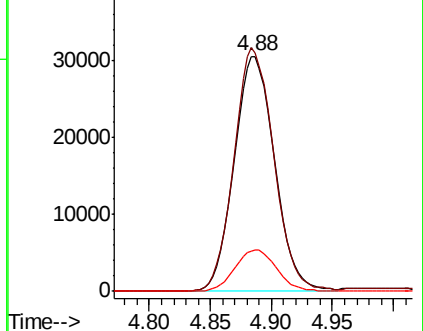
192 18.1 15.2 22.8



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: 4.412 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. -0.15 min

Lab File: VU027178.D

Acq: 26 Sep 2018 15:27

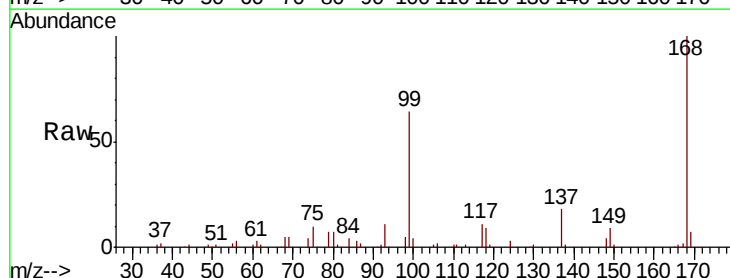
Tgt Ion: 75 Resp: 9582

Ion Ratio Lower Upper

75 100

110 6.6 16.1 48.2#

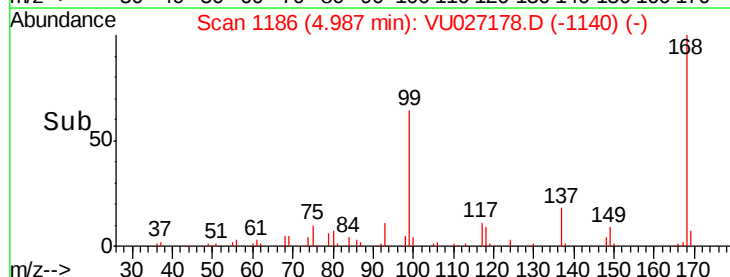
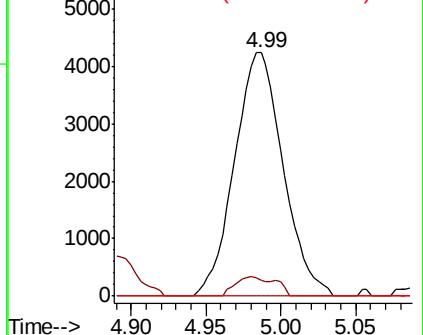
77 0.0 24.6 36.8#

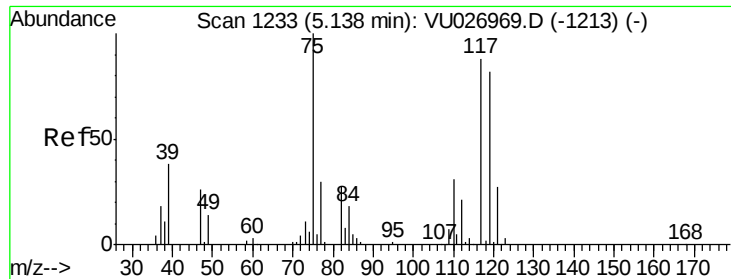


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VU0





#38

Carbon Tetrachloride

Concen: 4.953 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. -0.15 min

Lab File: VU027178.D

Acq: 26 Sep 2018 15:27

Instrument :

MSVOA_U

ClientSampleId :

MW-FOS4-SEP18

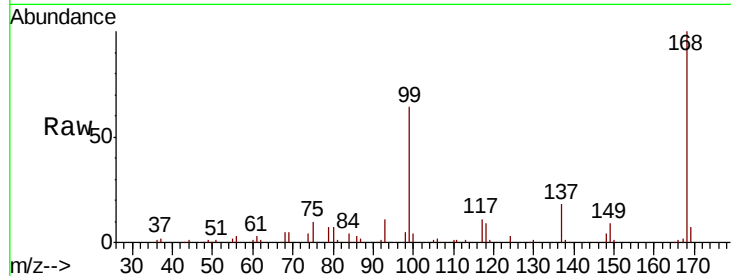
Tgt Ion:117 Resp: 10236

Ion Ratio Lower Upper

117 100

119 6.1 74.4 111.6#

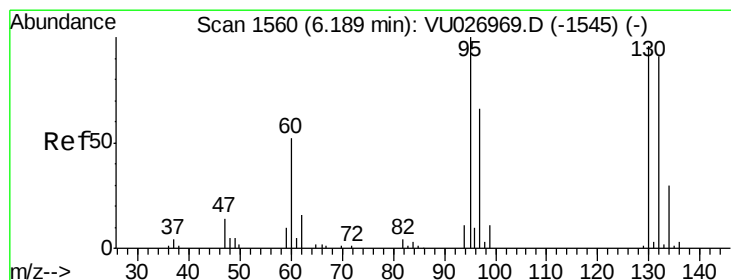
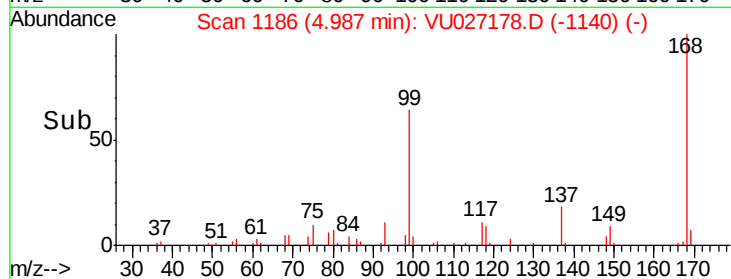
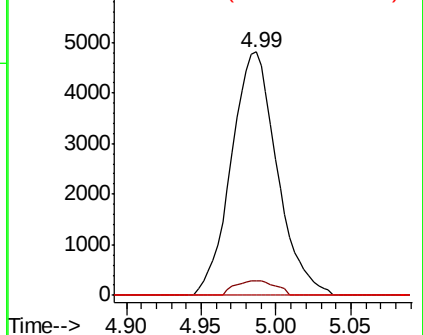
121 0.0 24.2 36.4#



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



#44

Trichloroethene

Concen: 6.137 ug/l

RT: 6.19 min Scan# 1560

Delta R.T. 0.00 min

Lab File: VU027178.D

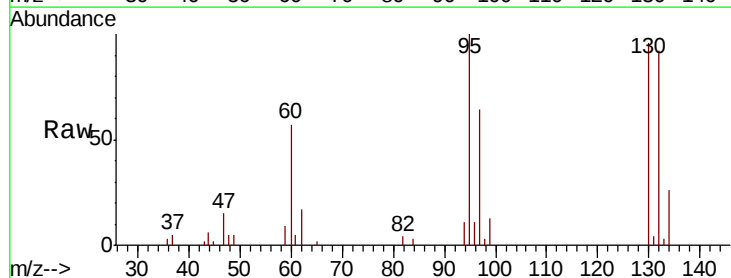
Acq: 26 Sep 2018 15:27

Tgt Ion:130 Resp: 8626

Ion Ratio Lower Upper

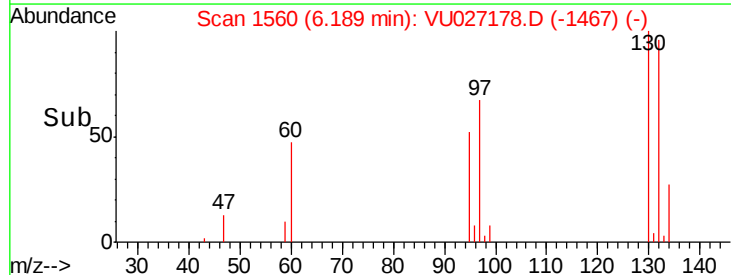
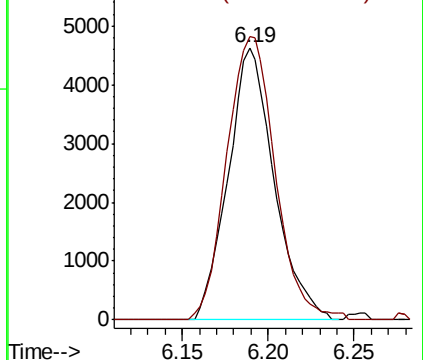
130 100

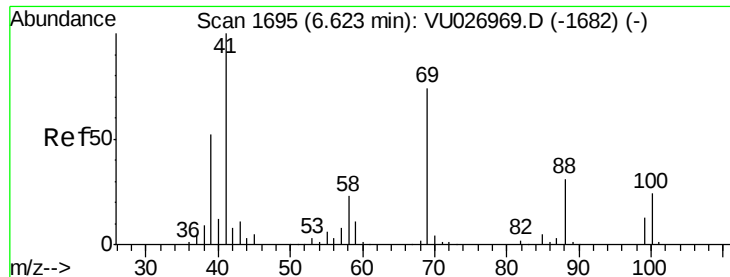
95 103.9 0.0 208.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VU0

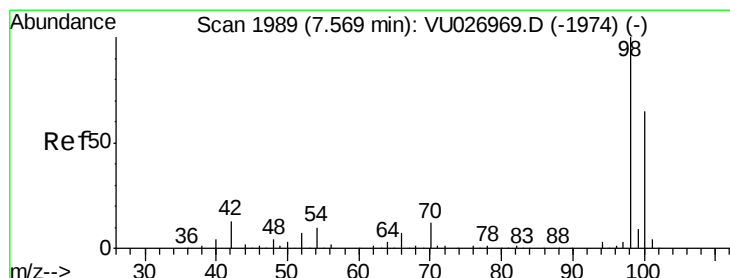
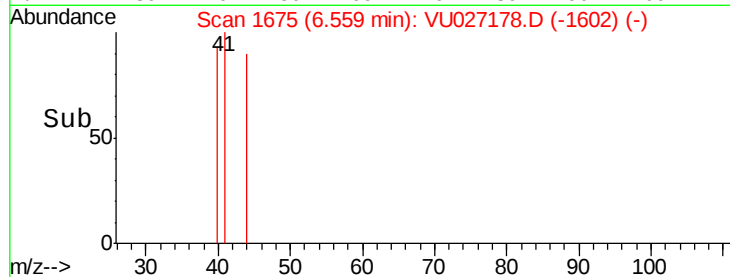
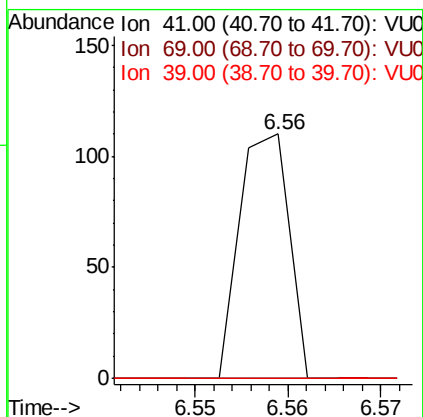
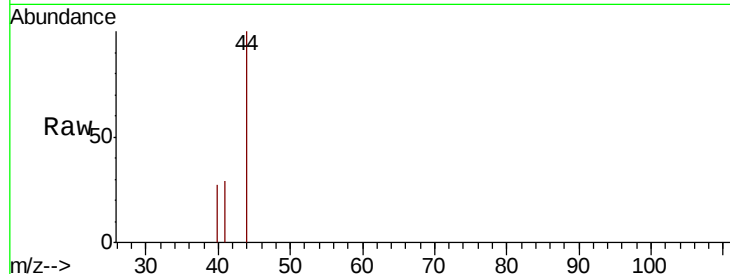




#48
Methyl methacrylate
Concen: 1.029 ug/l
RT: 6.56 min Scan# 1675
Delta R.T. -0.06 min
Lab File: VU027178.D
Acq: 26 Sep 2018 15:27

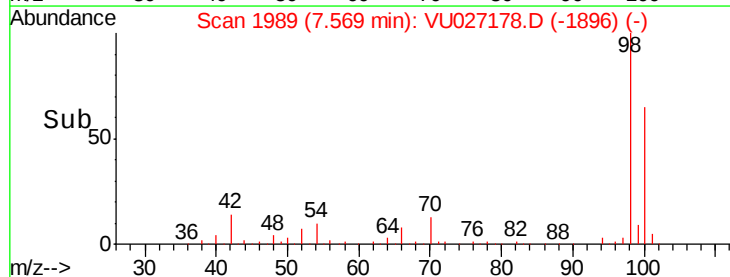
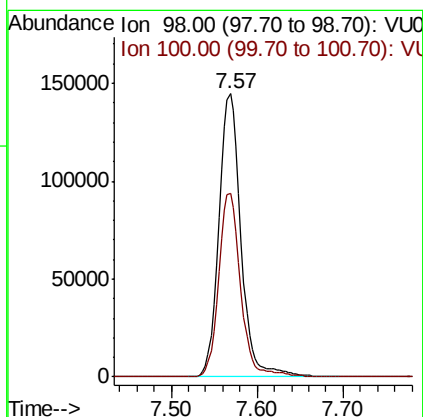
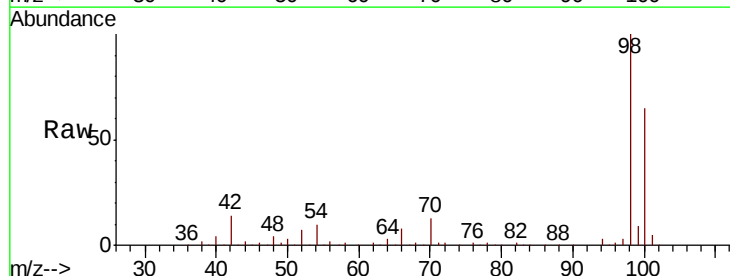
Instrument :
MSVOA_U
ClientSampleId :
MW-FOS4-SEP18

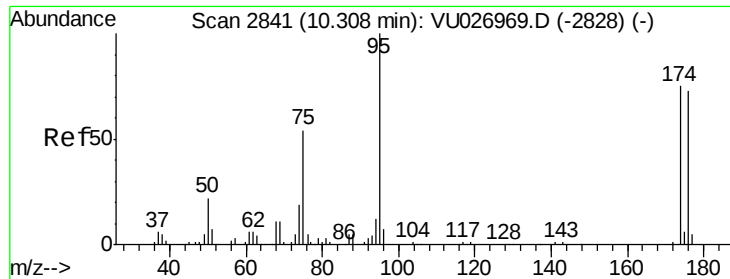
Tgt Ion: 41 Resp: 41
Ion Ratio Lower Upper
41 100
69 0.0 60.6 90.8#
39 0.0 42.8 64.2#



#50
Toluene-d8
Concen: 48.195 ug/l
RT: 7.57 min Scan# 1989
Delta R.T. 0.00 min
Lab File: VU027178.D
Acq: 26 Sep 2018 15:27

Tgt Ion: 98 Resp: 259077
Ion Ratio Lower Upper
98 100
100 64.3 52.1 78.1

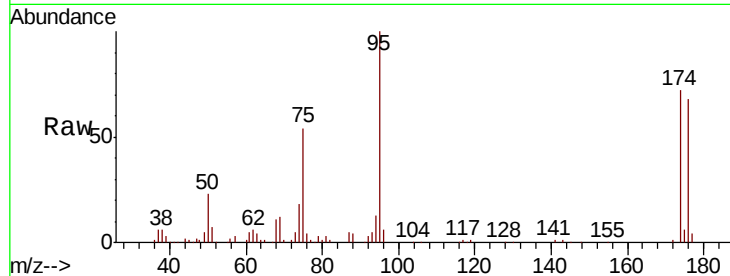




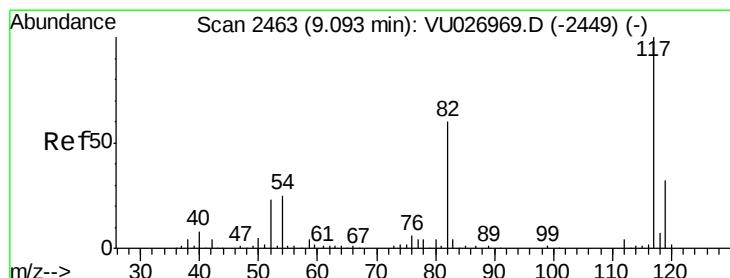
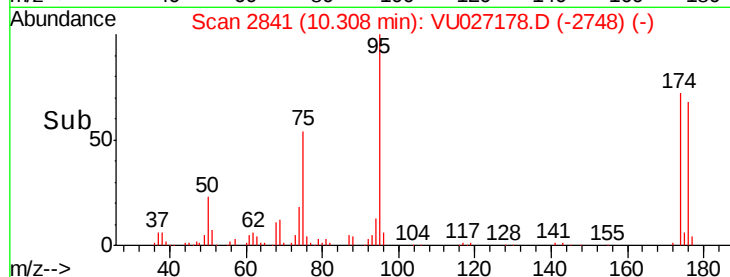
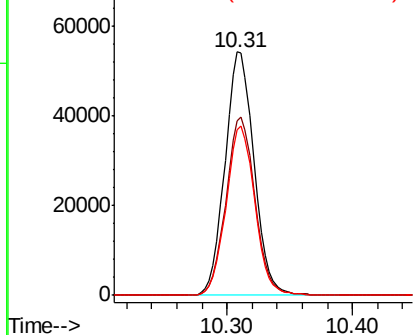
#62
4-Bromofluorobenzene
Concen: 47.434 ug/l
RT: 10.31 min Scan# 2841
Delta R.T. 0.00 min
Lab File: VU027178.D
Acq: 26 Sep 2018 15:27

Instrument :
MSVOA_U
ClientSampleId :
MW-FOS4-SEP18

Tgt Ion: 95 Resp: 87494
Ion Ratio Lower Upper
95 100
174 73.1 0.0 150.2
176 68.8 0.0 145.2

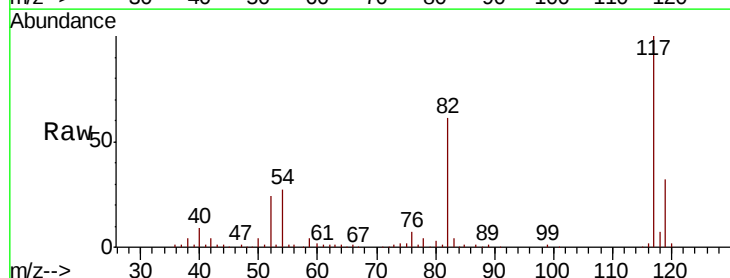


Abundance Ion 94.90 (94.60 to 95.60): VU026969.D (-2828) (-)
Ion 173.80 (173.50 to 174.50): VU026969.D (-2828) (-)
Ion 175.80 (175.50 to 176.50): VU026969.D (-2828) (-)

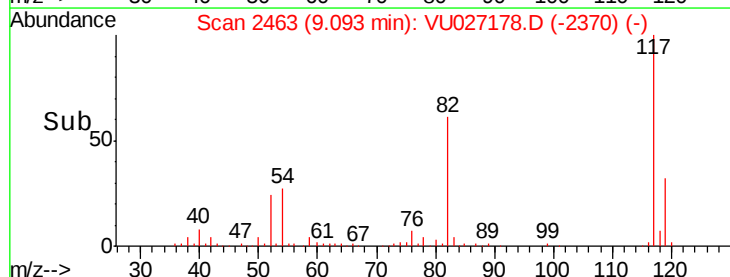
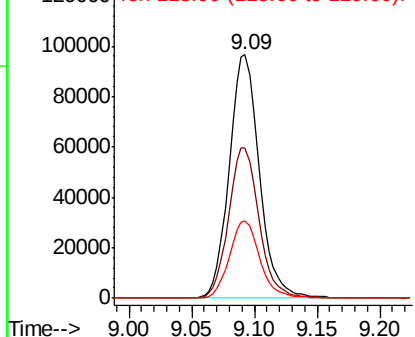


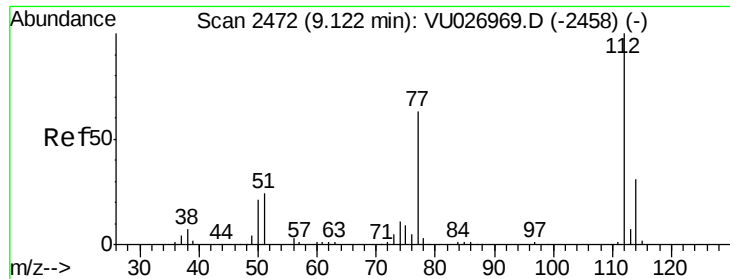
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2463
Delta R.T. 0.00 min
Lab File: VU027178.D
Acq: 26 Sep 2018 15:27

Tgt Ion: 117 Resp: 161327
Ion Ratio Lower Upper
117 100
82 61.4 48.0 72.0
119 32.0 25.8 38.8



Abundance Ion 116.90 (116.60 to 117.60): VU026969.D (-2449) (-)
Ion 82.00 (81.70 to 82.70): VU026969.D (-2449) (-)
Ion 118.90 (118.60 to 119.60): VU026969.D (-2449) (-)

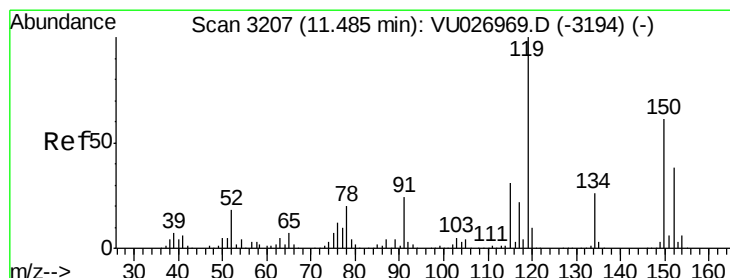
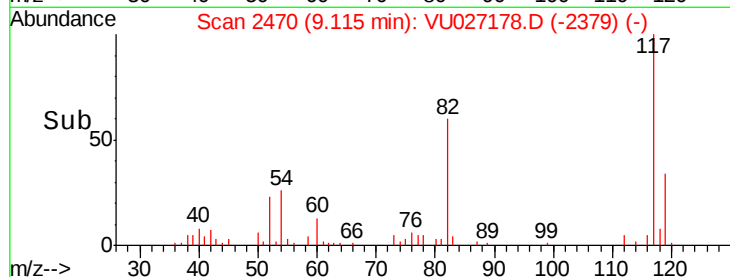
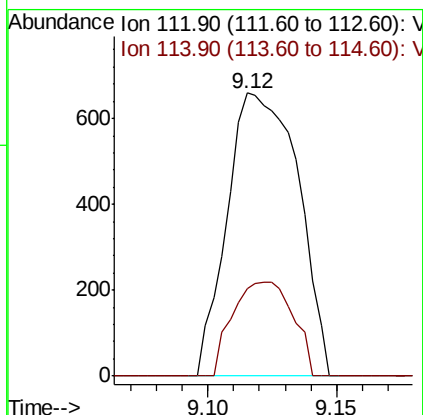
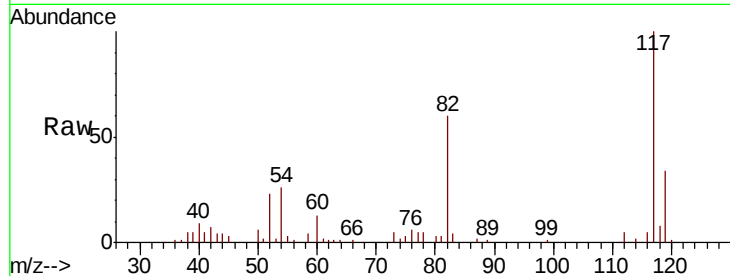




#65
 Chlorobenzene
 Concen: 0.295 ug/l
 RT: 9.12 min Scan# 2470
 Delta R.T. -0.01 min
 Lab File: VU027178.D
 Acq: 26 Sep 2018 15:27

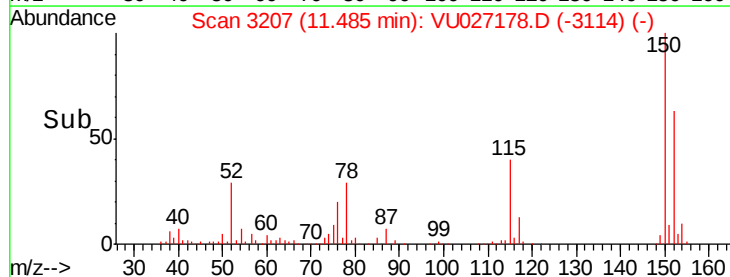
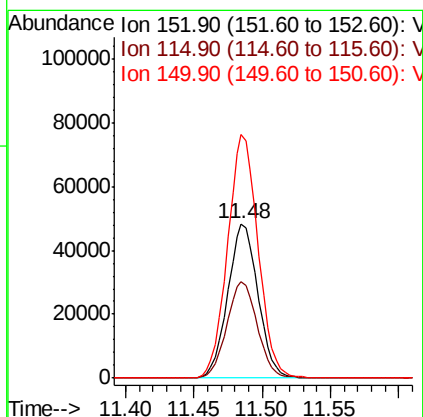
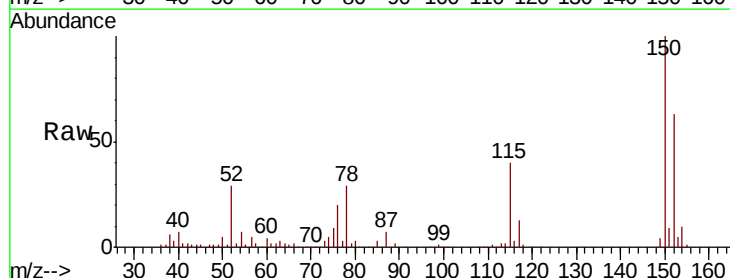
Instrument :
 MSVOA_U
 ClientSampleId :
 MW-FOS4-SEP18

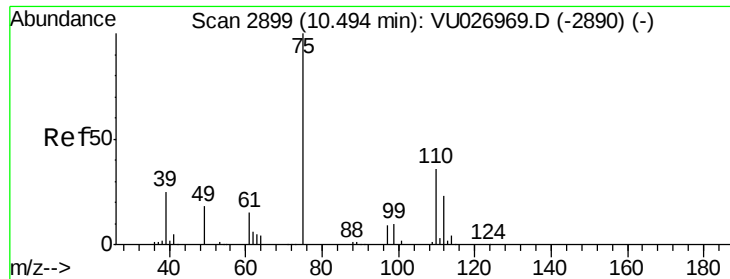
Tgt Ion:112 Resp: 1263
 Ion Ratio Lower Upper
 112 100
 114 31.1 25.0 37.6



#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 11.48 min Scan# 3207
 Delta R.T. 0.00 min
 Lab File: VU027178.D
 Acq: 26 Sep 2018 15:27

Tgt Ion:152 Resp: 74554
 Ion Ratio Lower Upper
 152 100
 115 63.0 44.9 134.5
 150 158.7 0.0 355.8





#76

1,2,3-Trichloropropane

Concen: 20.661 ug/l

RT: 10.31 min Scan# 2842

Delta R.T. -0.18 min

Lab File: VU027178.D

Acq: 26 Sep 2018 15:27

Instrument :

MSVOA_U

ClientSampleId :

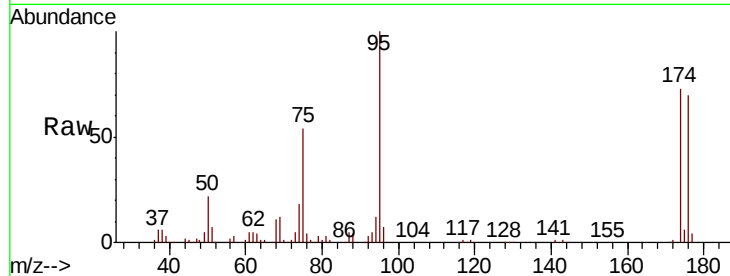
MW-FOS4-SEP18

Tgt Ion: 75 Resp: 46795

Ion Ratio Lower Upper

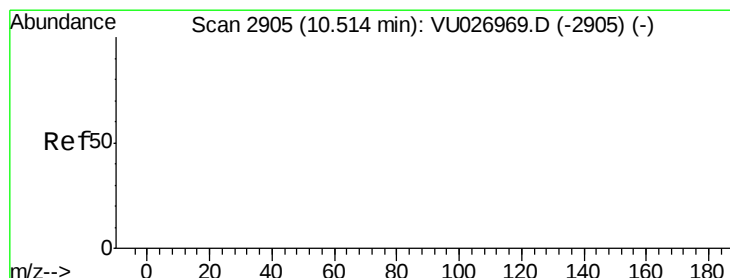
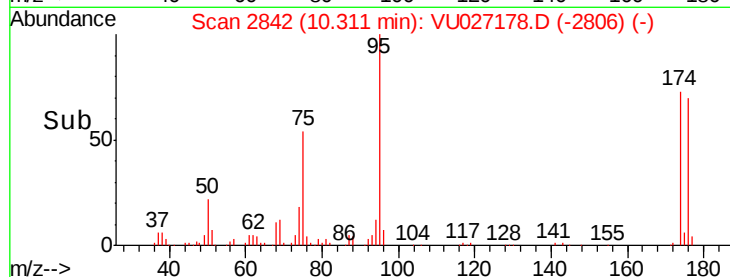
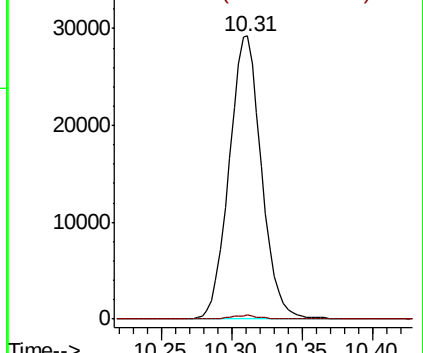
75 100

77 1.1 20.9 62.8#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0



#81

trans-1,4-Dichloro-2-butene

Concen: 66.118 ug/l

RT: 10.31 min Scan# 2842

Delta R.T. -0.20 min

Lab File: VU027178.D

Acq: 26 Sep 2018 15:27

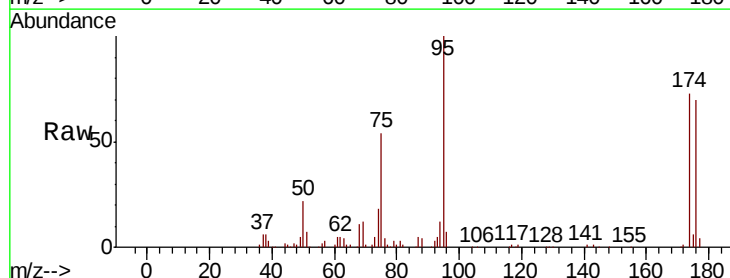
Tgt Ion: 75 Resp: 46795

Ion Ratio Lower Upper

75 100

53 0.1 0.0 0.0#

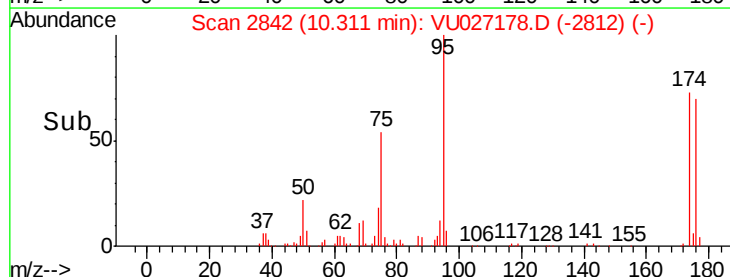
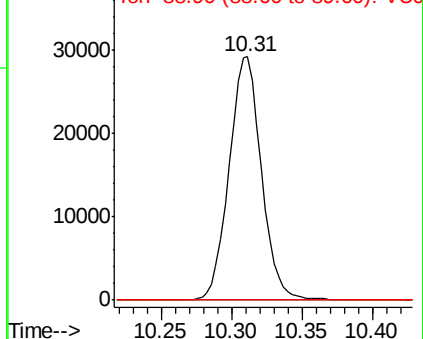
89 0.0 0.0 0.0

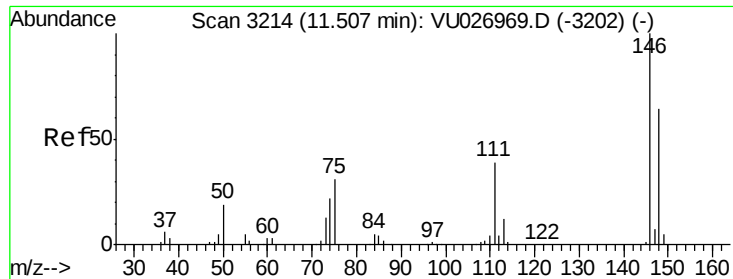


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.90 (88.60 to 89.60): VU0





#88

1,4-Dichlorobenzene

Concen: 0.387 ug/l

RT: 11.51 min Scan# 3215

Delta R.T. 0.00 min

Lab File: VU027178.D

Acq: 26 Sep 2018 15:27

Instrument :

MSVOA_U

ClientSampleId :

MW-FOS4-SEP18

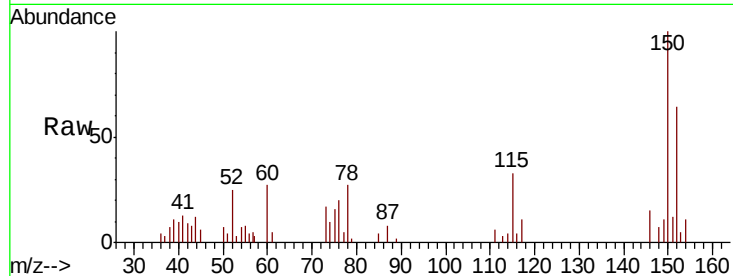
Tgt Ion:146 Resp: 1089

Ion Ratio Lower Upper

146 100

111 0.0 20.3 60.9#

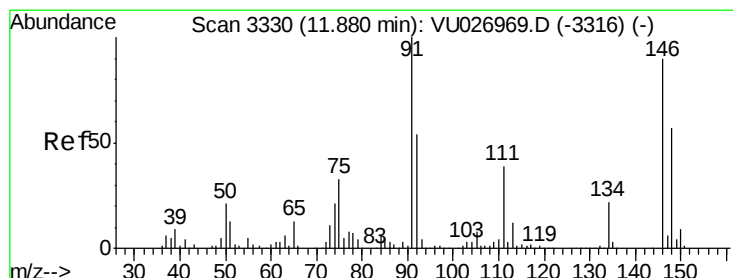
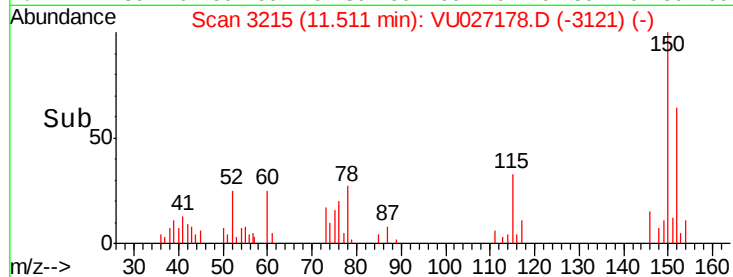
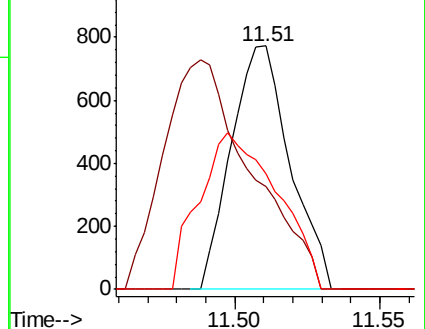
148 0.0 31.9 95.9#



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#91

1,2-Dichlorobenzene

Concen: 0.282 ug/l

RT: 11.88 min Scan# 3331

Delta R.T. 0.00 min

Lab File: VU027178.D

Acq: 26 Sep 2018 15:27

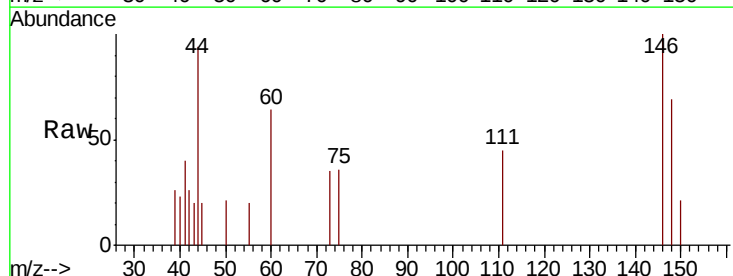
Tgt Ion:146 Resp: 772

Ion Ratio Lower Upper

146 100

111 41.1 21.8 65.3

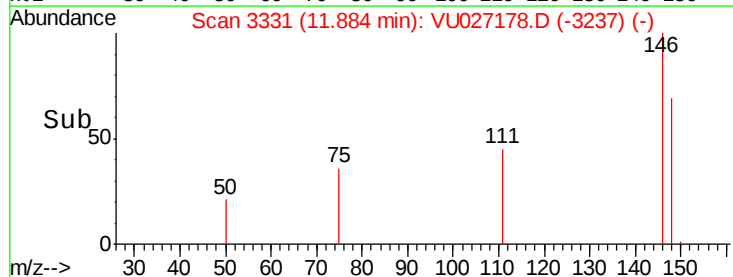
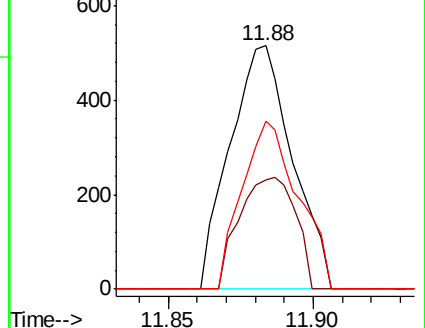
148 61.7 31.9 95.7

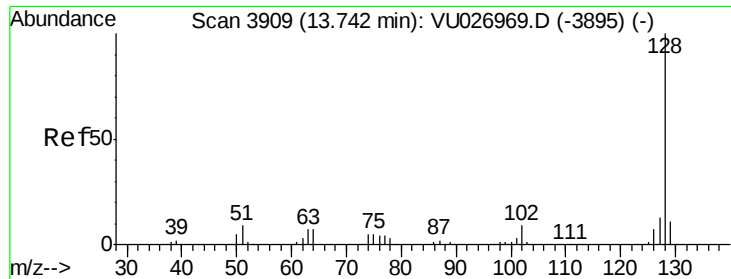


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V





#95

Naphthalene

Concen: 1.719 ug/l

RT: 13.76 min Scan# 3914

Delta R.T. 0.02 min

Lab File: VU027178.D

Acq: 26 Sep 2018 15:27

Instrument :

MSVOA_U

ClientSampleId :

MW-FOS4-SEP18

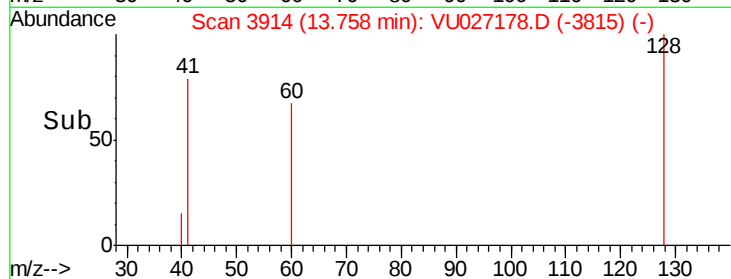
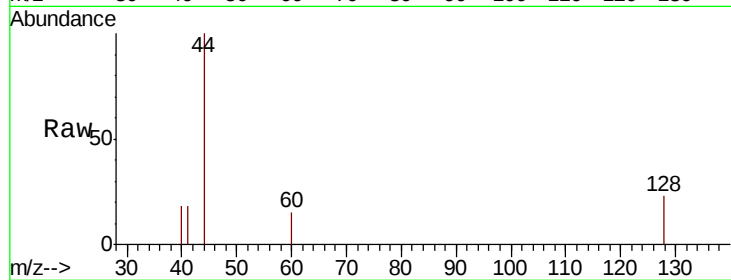
Tgt Ion:128 Resp: 189

Ion Ratio Lower Upper

128 100

127 0.0 10.6 15.8#

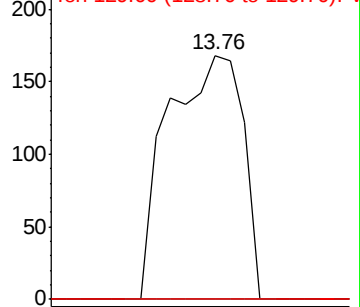
129 0.0 8.6 12.8#



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



Time-->