

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092618\
 Data File : VU027167.D
 Acq On : 26 Sep 2018 11:10
 Operator : MD/SY
 Sample : J5032-10
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MW-116-092018

Quant Time: Sep 27 01:05:25 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	4.98	168	97253	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	161755	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	154631	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	69683	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.31	65	99977	51.08	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.16%	
35) Dibromofluoromethane	4.89	113	68603	48.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.86%	
50) Toluene-d8	7.57	98	258883	48.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.90%	
62) 4-Bromofluorobenzene	10.31	95	84462	46.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.14%	

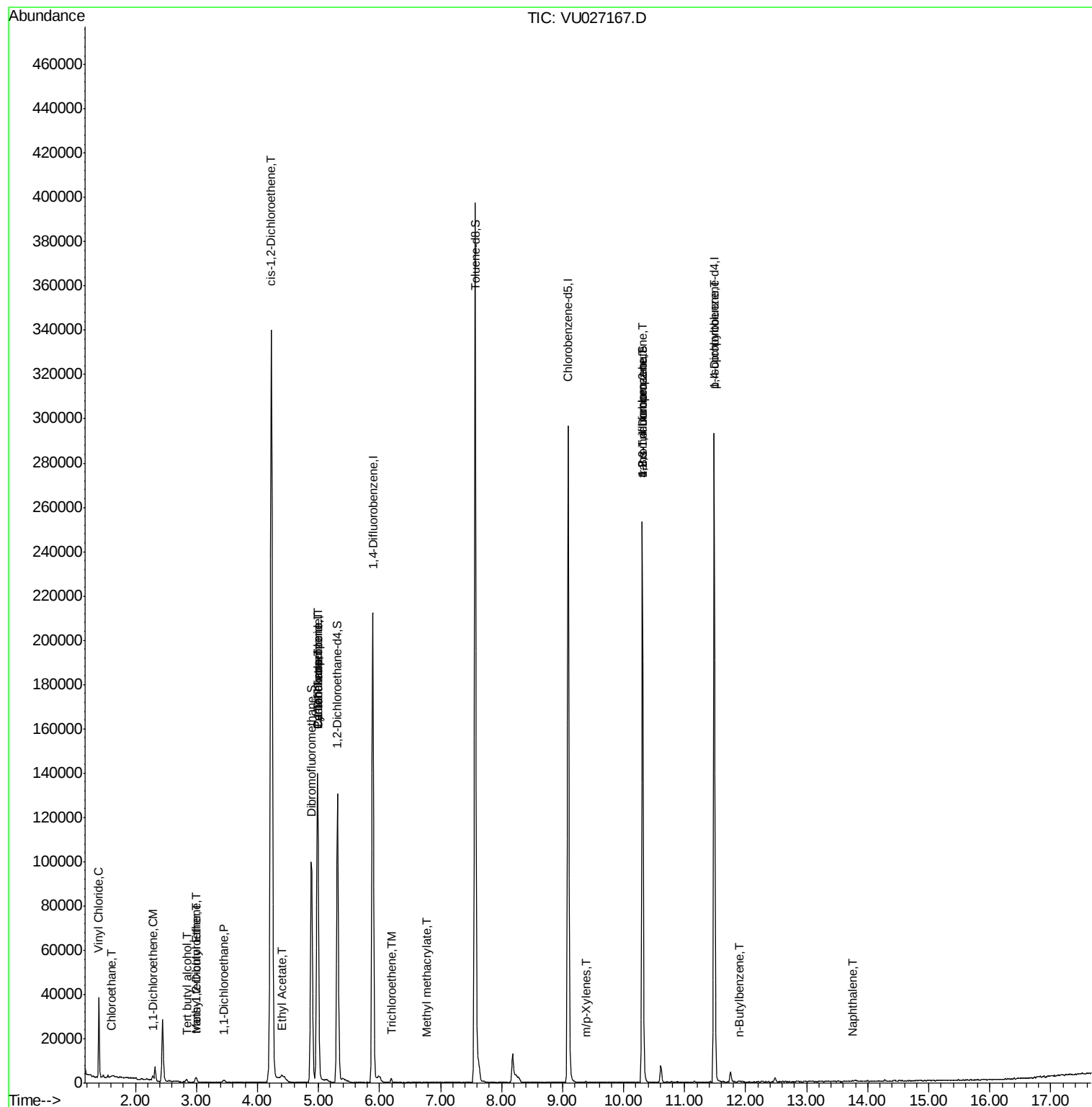
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.40	62	22311	10.918	ug/l	99
6) Chloroethane	1.61	64	354	0.271	ug/l #	43
11) Tert butyl alcohol	2.84	59	1106	2.465	ug/l #	72
12) 1,1-Dichloroethene	2.29	96	712	0.530	ug/l	89
16) Acetone	2.32	43	7021	Below Cal		99
19) Methyl tert-butyl Ether	3.00	73	1107	0.224	ug/l #	89
21) trans-1,2-Dichloroethene	2.98	96	663	0.462	ug/l	86
24) 1,1-Dichloroethane	3.45	63	1625	0.506	ug/l #	84
27) cis-1,2-Dichloroethene	4.23	96	174161	107.536	ug/l	92
31) Cyclohexane	4.98	56	2636	0.332	ug/l #	7
36) 1,1-Dichloropropene	4.99	75	9554	4.426	ug/l #	50
37) Ethyl Acetate	4.40	43	1898	0.649	ug/l #	70
38) Carbon Tetrachloride	4.98	117	10080	4.907	ug/l #	19
44) Trichloroethene	6.19	130	671	0.480	ug/l	92
48) Methyl methacrylate	6.78	41	42	1.030	ug/l #	17
68) m/p-Xylenes	9.39	106	80	1.530	ug/l #	1
76) 1,2,3-Trichloropropane	10.31	75	45755	21.614	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.31	75	45755	69.167	ug/l #	100
86) p-Isopropyltoluene	11.49	119	204	0.968	ug/l #	1
89) n-Butylbenzene	11.90	91	355	2.463	ug/l #	33
95) Naphthalene	13.75	128	243	1.730	ug/l #	69

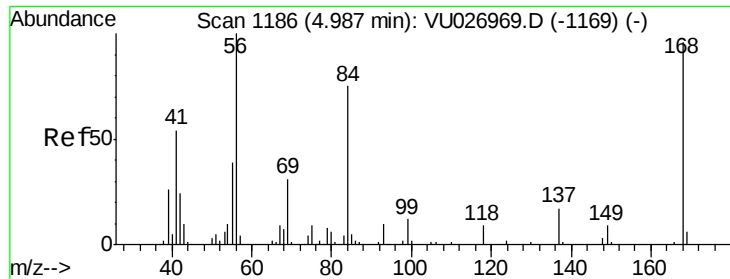
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Sep 27 01:05:25 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\82U092218W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 22 01:31:57 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.00 min

Lab File: VU027167.D

Acq: 26 Sep 2018 11:10

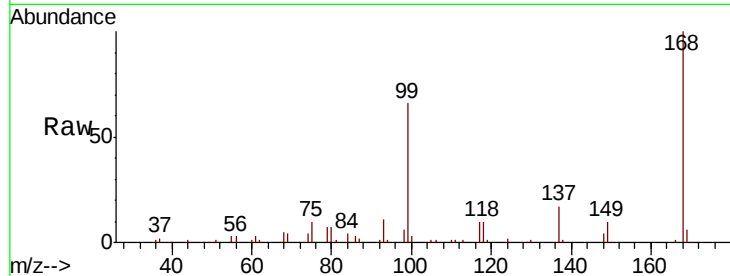
Instrument :
MSVOA_U
ClientSampleId :
MW-116-092018

Tgt Ion: 168 Resp: 97253

Ion Ratio Lower Upper

168 100

99 66.3 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) (-)

4.98

50000

40000

30000

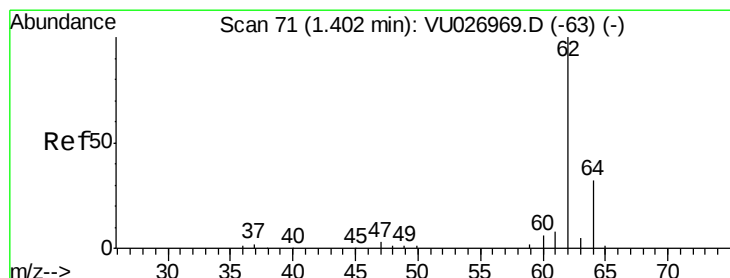
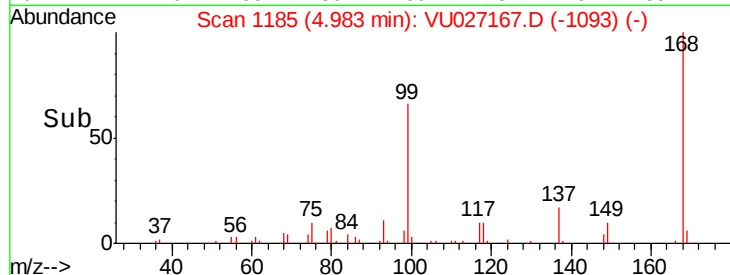
20000

10000

0

4.90 4.95 5.00 5.05 5.10

Time-->



#4

Vinyl Chloride

Concen: 10.918 ug/l

RT: 1.40 min Scan# 71

Delta R.T. -0.00 min

Lab File: VU027167.D

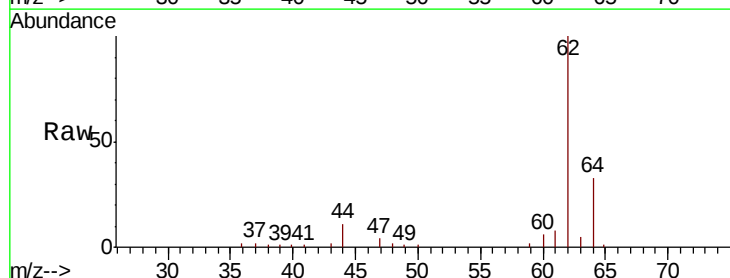
Acq: 26 Sep 2018 11:10

Tgt Ion: 62 Resp: 22311

Ion Ratio Lower Upper

62 100

64 32.5 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

25000

20000

15000

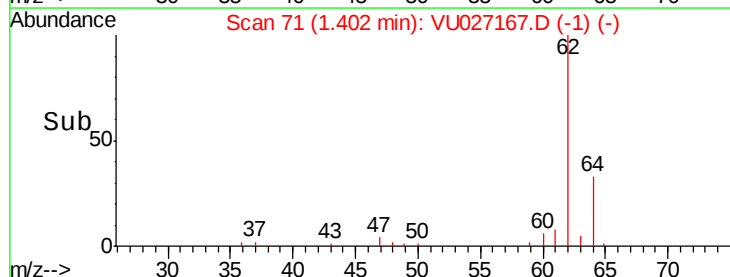
10000

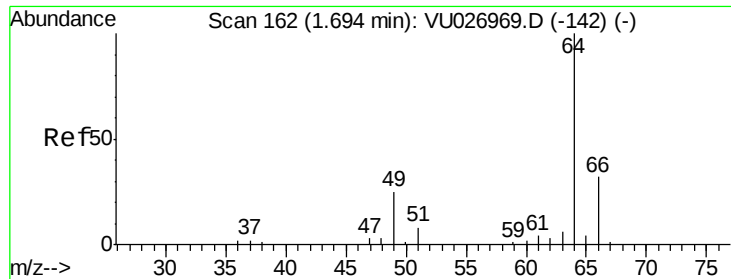
5000

0

1.35 1.40 1.45

Time-->





#6

Chloroethane

Concen: 0.271 ug/l

RT: 1.61 min Scan# 137

Delta R.T. -0.08 min

Lab File: VU027167.D

Acq: 26 Sep 2018 11:10

Instrument :

MSVOA_U

ClientSampleId :

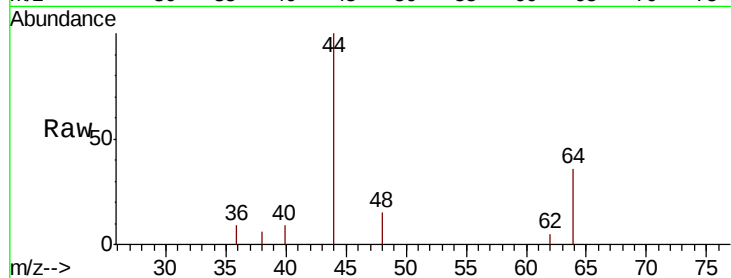
MW-116-092018

Tgt Ion: 64 Resp: 354

Ion Ratio Lower Upper

64 100

66 0.0 25.3 37.9#



Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0

1.61

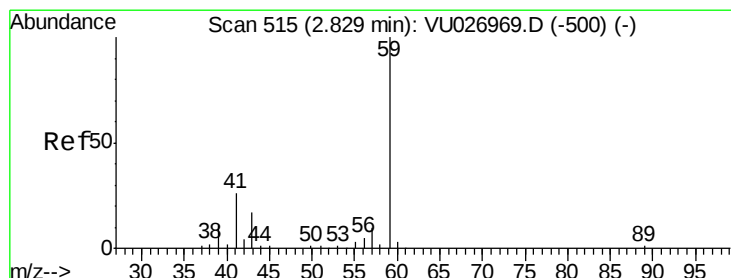
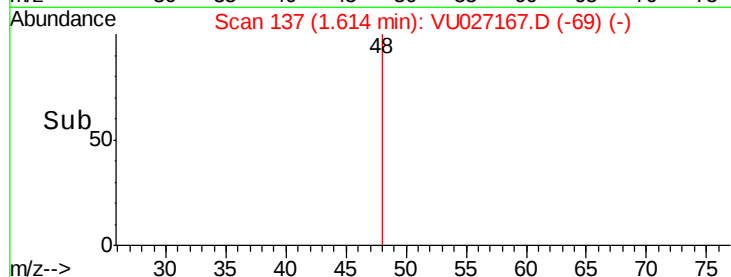
600

400

200

0

Time-->



#11

Tert butyl alcohol

Concen: 2.465 ug/l

RT: 2.84 min Scan# 518

Delta R.T. 0.01 min

Lab File: VU027167.D

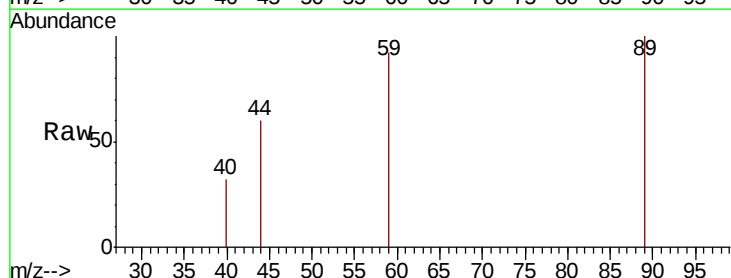
Acq: 26 Sep 2018 11:10

Tgt Ion: 59 Resp: 1106

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 57.00 (56.70 to 57.70): VU0

2.84

600

500

400

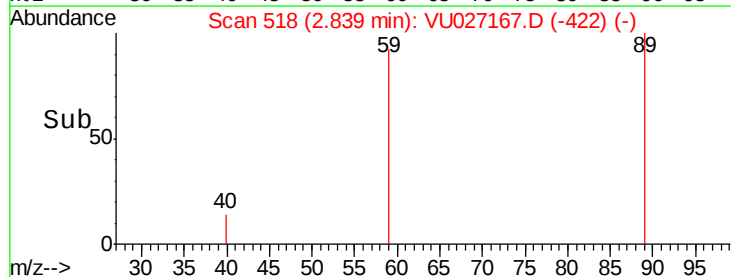
300

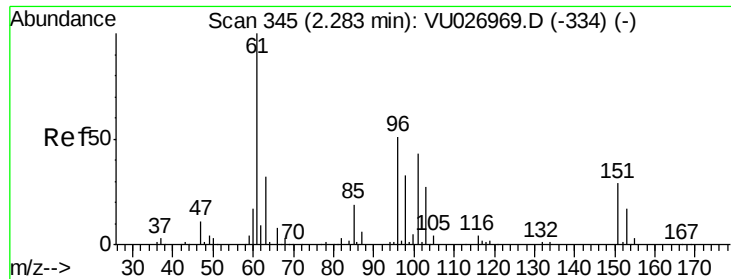
200

100

0

Time-->

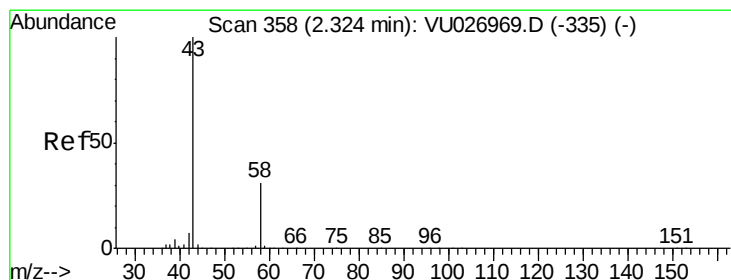
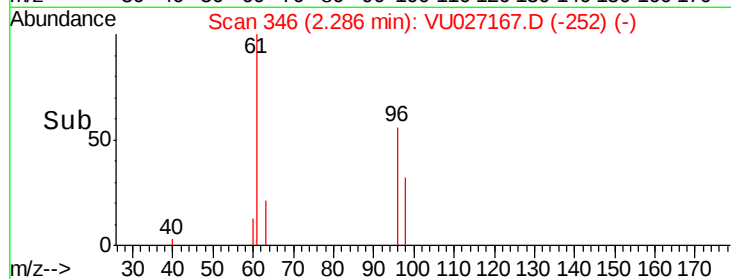
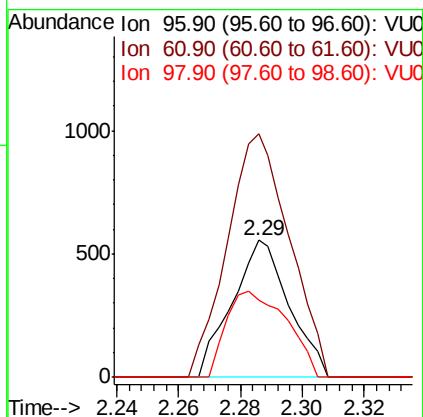
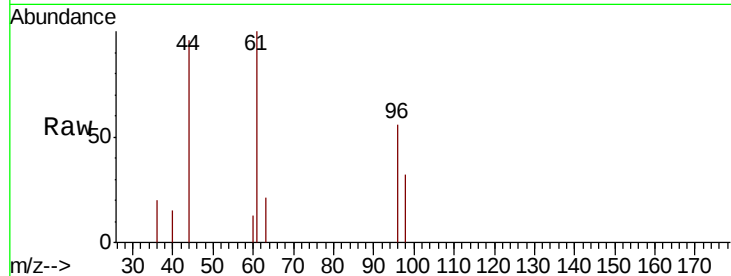




#12
 1,1-Dichloroethene
 Concen: 0.530 ug/l
 RT: 2.29 min Scan# 346
 Delta R.T. 0.00 min
 Lab File: VU027167.D
 Acq: 26 Sep 2018 11:10

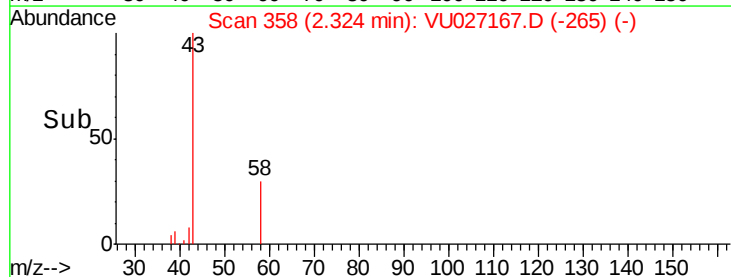
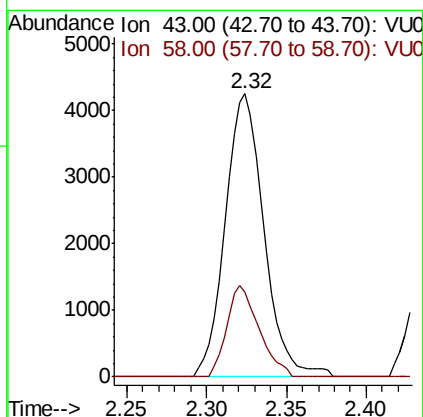
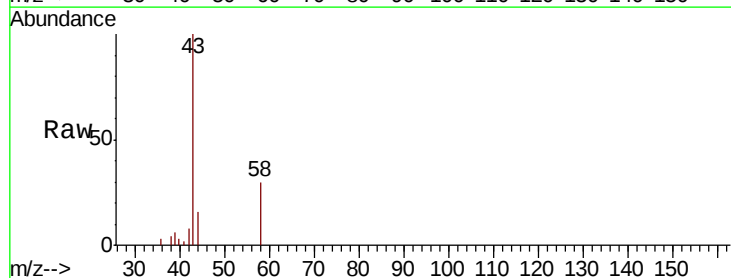
Instrument :
 MSVOA_U
 ClientSampleId :
 MW-116-092018

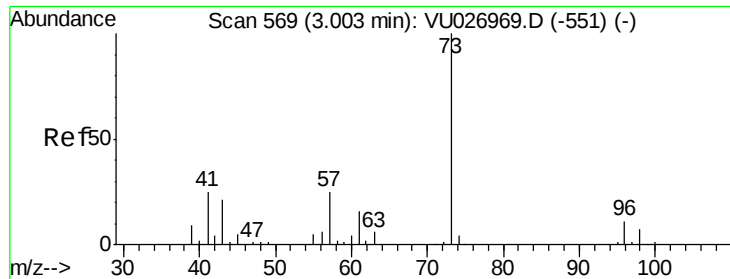
Tgt Ion: 96 Resp: 712
 Ion Ratio Lower Upper
 96 100
 61 177.8 156.1 234.1
 98 56.8 51.4 77.0



#16
 Acetone
 Concen: Below Cal
 RT: 2.32 min Scan# 358
 Delta R.T. 0.00 min
 Lab File: VU027167.D
 Acq: 26 Sep 2018 11:10

Tgt Ion: 43 Resp: 7021
 Ion Ratio Lower Upper
 43 100
 58 30.0 24.6 36.8





#19

Methyl tert-butyl Ether

Concen: 0.224 ug/l

RT: 3.00 min Scan# 569

Delta R.T. -0.00 min

Lab File: VU027167.D

Acq: 26 Sep 2018 11:10

Instrument :

MSVOA_U

ClientSampleId :

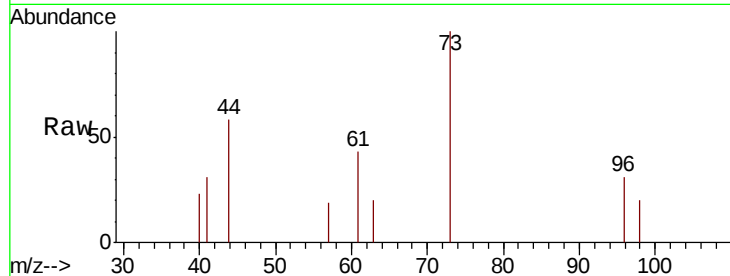
MW-116-092018

Tgt Ion: 73 Resp: 1107

Ion Ratio Lower Upper

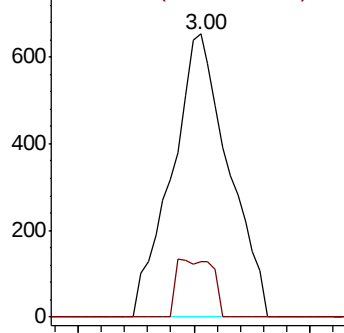
73 100

57 19.4 19.8 29.6#

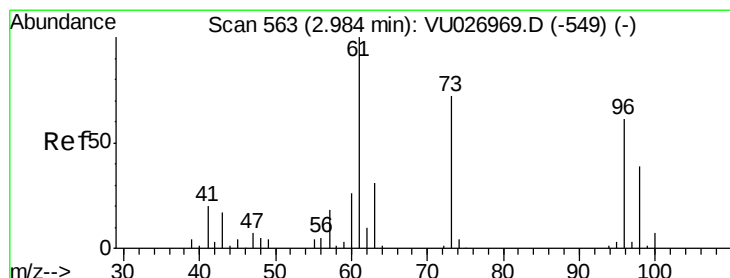
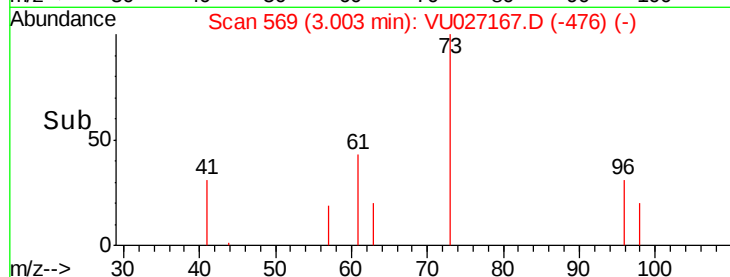


Abundance Ion 73.00 (72.70 to 73.70): VU0

Ion 57.00 (56.70 to 57.70): VU0



Time-->



#21

trans-1,2-Dichloroethene

Concen: 0.462 ug/l

RT: 2.98 min Scan# 563

Delta R.T. -0.00 min

Lab File: VU027167.D

Acq: 26 Sep 2018 11:10

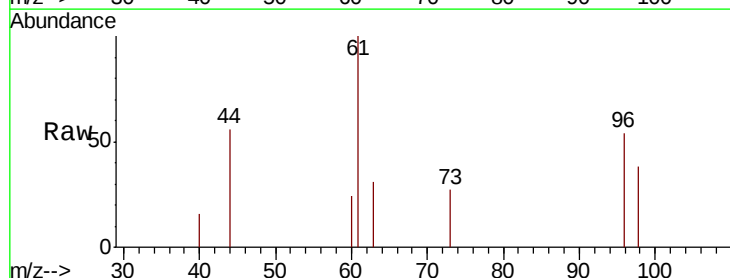
Tgt Ion: 96 Resp: 663

Ion Ratio Lower Upper

96 100

61 186.8 131.8 197.6

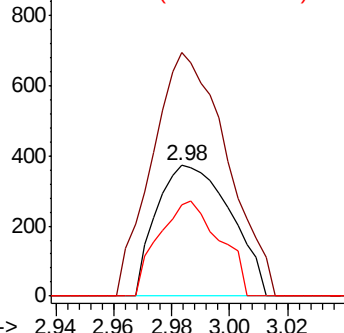
98 70.2 50.9 76.3



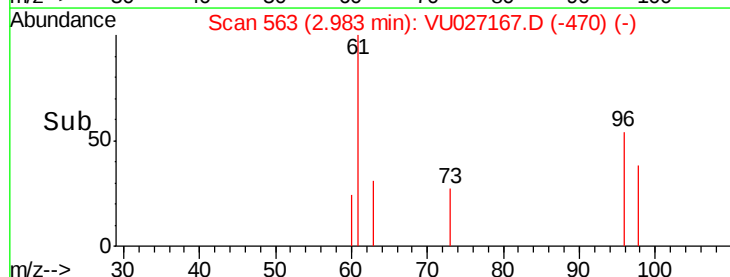
Abundance Ion 95.90 (95.60 to 96.60): VU0

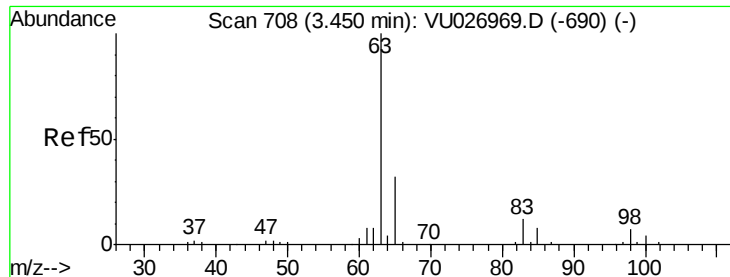
Ion 60.90 (60.60 to 61.60): VU0

Ion 97.90 (97.60 to 98.60): VU0



Time-->

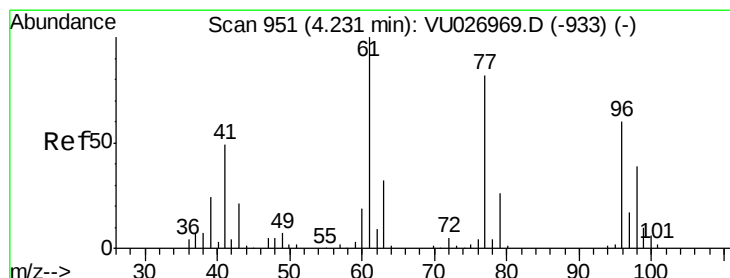
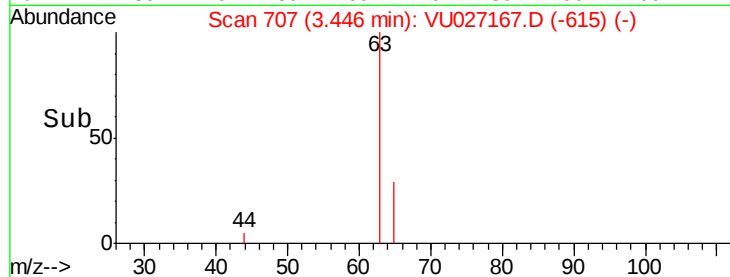
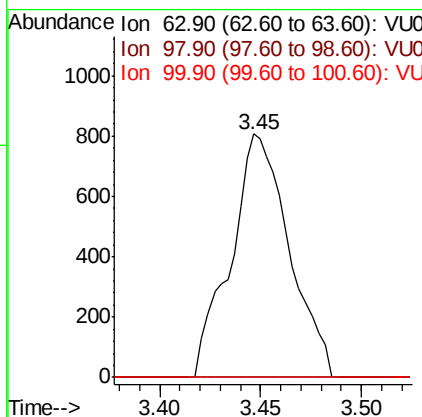
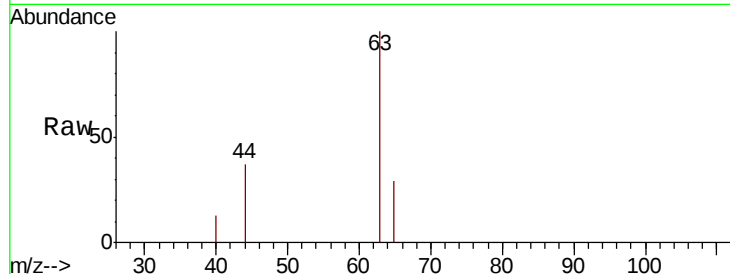




#24
 1,1-Dichloroethane
 Concen: 0.506 ug/l
 RT: 3.45 min Scan# 707
 Delta R.T. -0.00 min
 Lab File: VU027167.D
 Acq: 26 Sep 2018 11:10

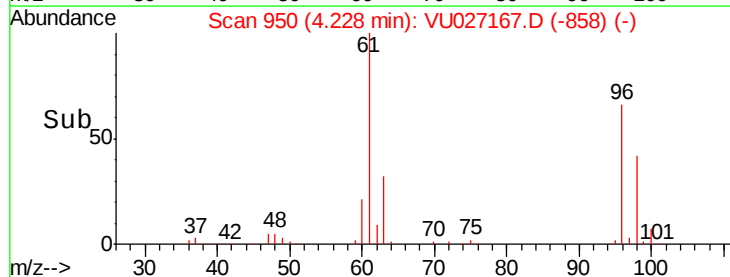
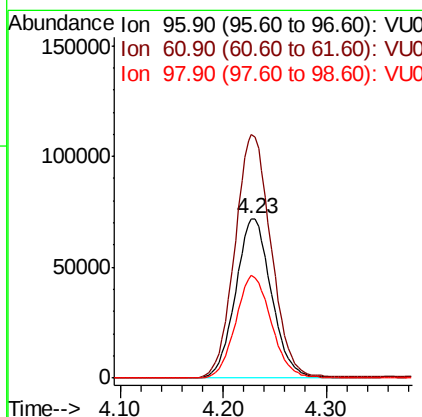
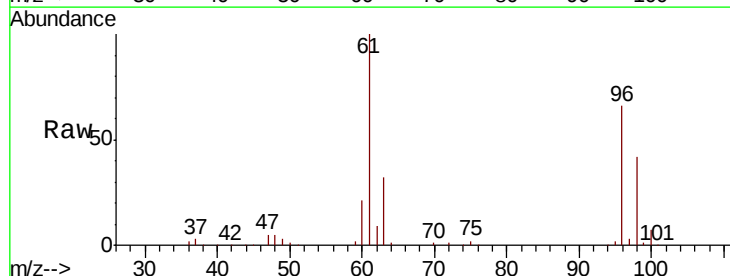
Instrument :
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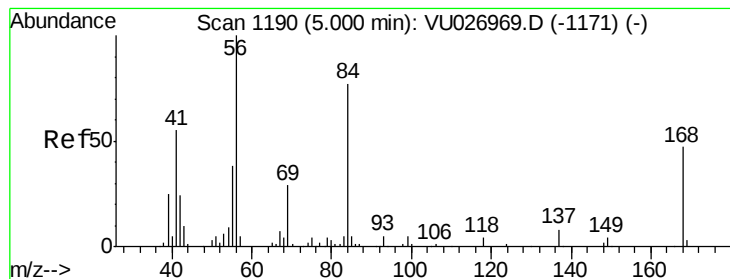
Tgt Ion:	63	Resp:	1625
Ion	Ratio	Lower	Upper
63	100		
98	0.0	3.3	9.8#
100	0.0	2.0	5.8#



#27
 cis-1,2-Dichloroethene
 Concen: 107.536 ug/l
 RT: 4.23 min Scan# 950
 Delta R.T. -0.00 min
 Lab File: VU027167.D
 Acq: 26 Sep 2018 11:10

Tgt Ion:	96	Resp:	174161
Ion	Ratio	Lower	Upper
96	100		
61	154.3	0.0	337.2
98	64.4	0.0	127.6





#31

Cyclohexane

Concen: 0.332 ug/l

RT: 4.98 min Scan# 1184

Delta R.T. -0.02 min

Lab File: VU027167.D

Acq: 26 Sep 2018 11:10

Instrument :

MSVOA_U

ClientSampleId :

MW-116-092018

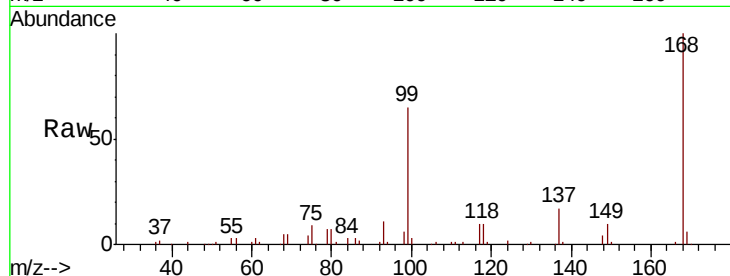
Tgt Ion: 56 Resp: 2636

Ion Ratio Lower Upper

56 100

69 154.0 23.0 34.4#

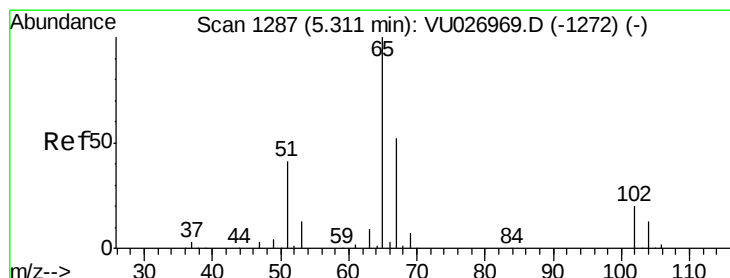
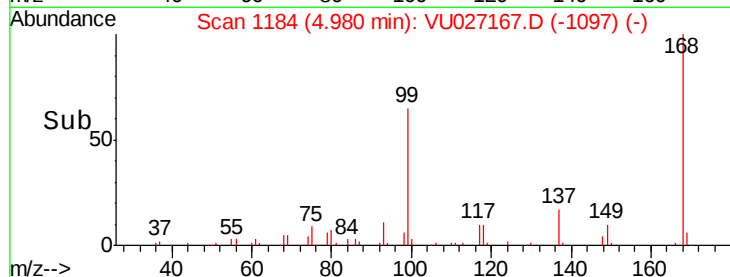
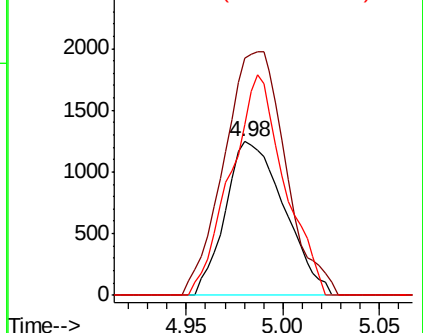
84 111.1 61.4 92.2#



Abundance Ion 56.00 (55.70 to 56.70): VU027167.D (-1184) (-)

Ion 69.00 (68.70 to 69.70): VU027167.D (-1184) (-)

Ion 84.00 (83.70 to 84.70): VU027167.D (-1184) (-)



#33

1,2-Dichloroethane-d4

Concen: 51.077 ug/l

RT: 5.31 min Scan# 1287

Delta R.T. -0.00 min

Lab File: VU027167.D

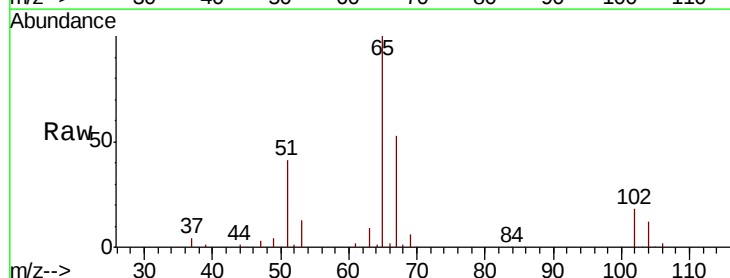
Acq: 26 Sep 2018 11:10

Tgt Ion: 65 Resp: 99977

Ion Ratio Lower Upper

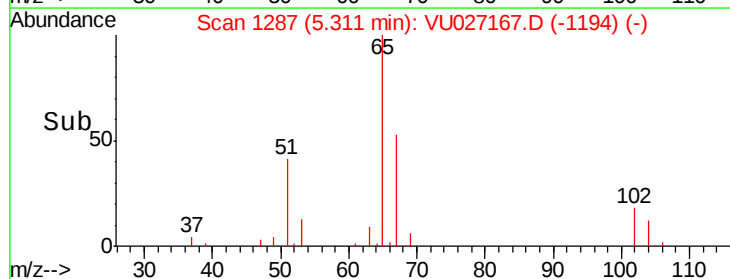
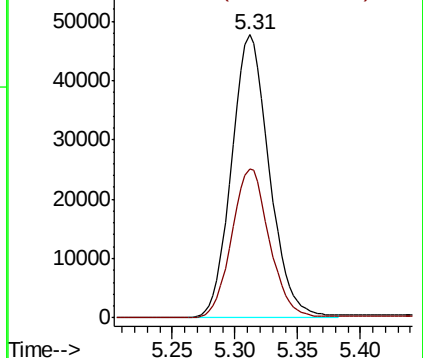
65 100

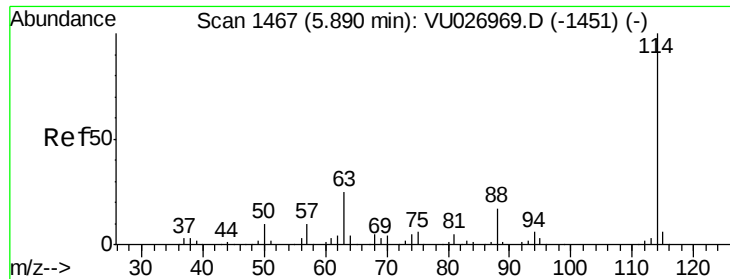
67 52.5 0.0 105.6



Abundance Ion 64.90 (64.60 to 65.60): VU027167.D (-1287) (-)

Ion 66.90 (66.60 to 67.60): VU027167.D (-1287) (-)

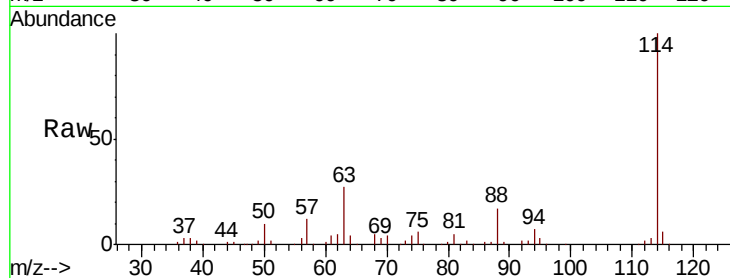




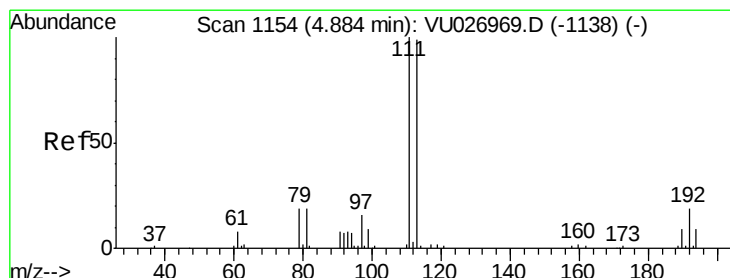
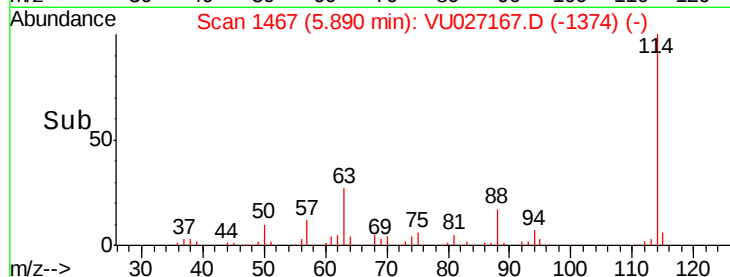
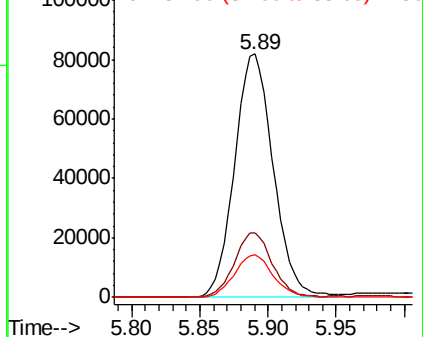
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1467
 Delta R.T. -0.00 min
 Lab File: VU027167.D
 Acq: 26 Sep 2018 11:10

Instrument :
 MSVOA_U
 ClientSampleId :
 MW-116-092018

Tgt Ion:114 Resp: 161755
 Ion Ratio Lower Upper
 114 100
 63 26.5 0.0 49.2
 88 17.3 0.0 33.8

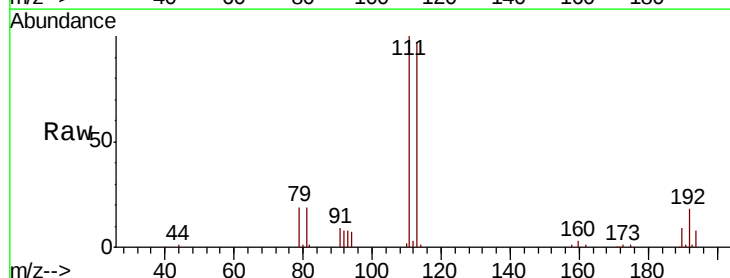


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VU0
 Ion 87.90 (87.60 to 88.60): VU0

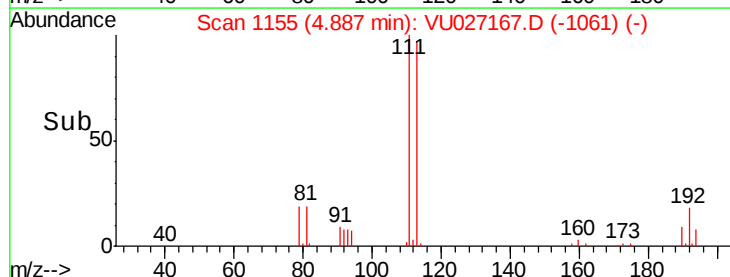
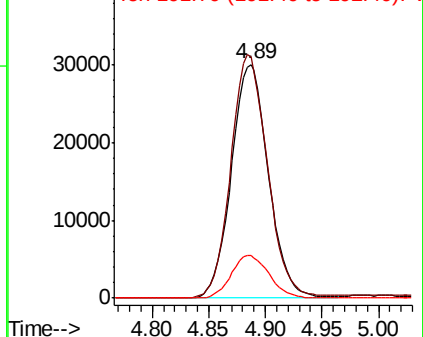


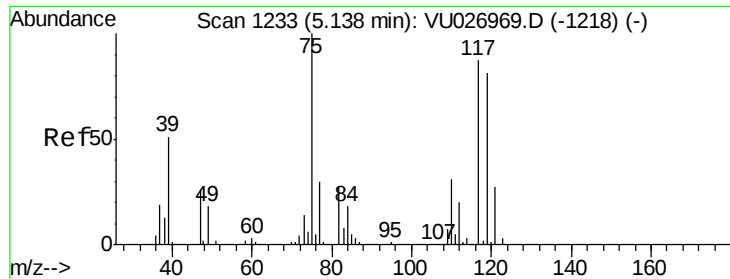
#35
 Dibromofluoromethane
 Concen: 48.929 ug/l
 RT: 4.89 min Scan# 1155
 Delta R.T. 0.00 min
 Lab File: VU027167.D
 Acq: 26 Sep 2018 11:10

Tgt Ion:113 Resp: 68603
 Ion Ratio Lower Upper
 113 100
 111 103.2 82.2 123.4
 192 18.5 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: 4.426 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. -0.15 min

Lab File: VU027167.D

Acq: 26 Sep 2018 11:10

Instrument :

MSVOA_U

ClientSampleId :

MW-116-092018

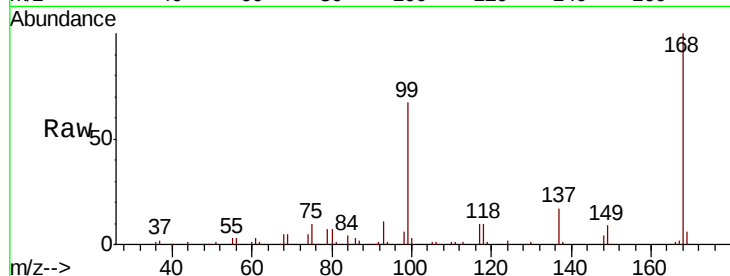
Tgt Ion: 75 Resp: 9554

Ion Ratio Lower Upper

75 100

110 7.1 16.1 48.2#

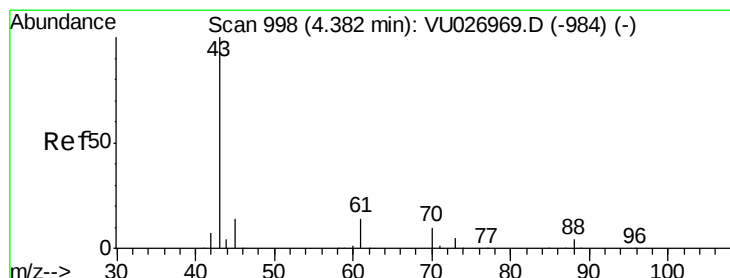
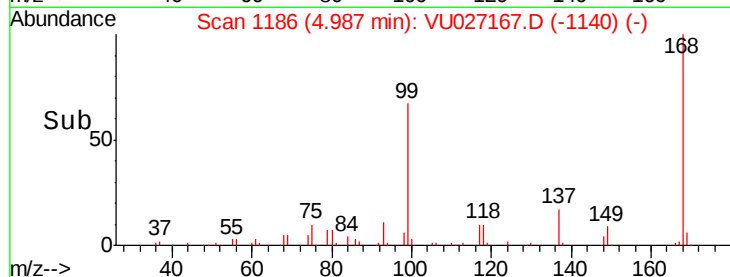
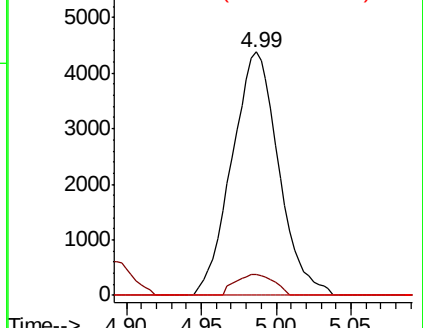
77 0.0 24.6 36.8#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 109.90 (109.60 to 110.60): VU0

Ion 76.90 (76.60 to 77.60): VU0



#37

Ethyl Acetate

Concen: 0.649 ug/l

RT: 4.40 min Scan# 1003

Delta R.T. 0.02 min

Lab File: VU027167.D

Acq: 26 Sep 2018 11:10

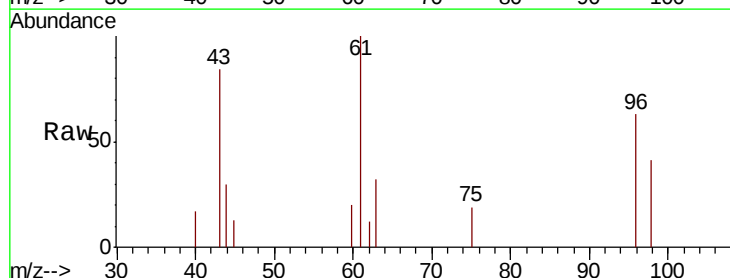
Tgt Ion: 43 Resp: 1898

Ion Ratio Lower Upper

43 100

61 0.0 10.5 15.7#

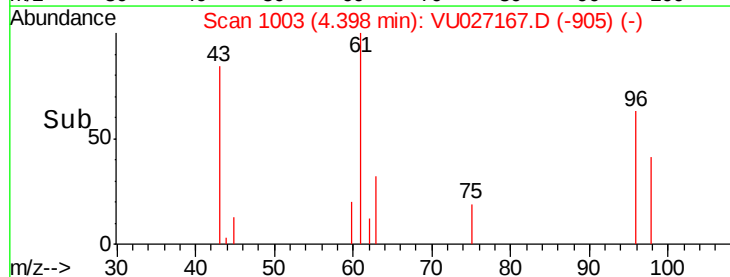
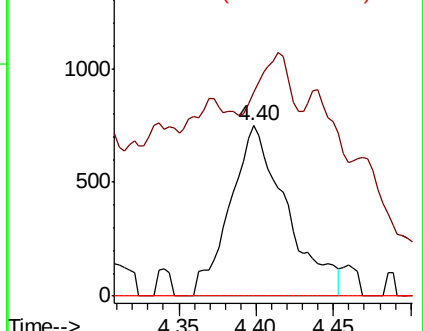
70 0.0 7.4 11.0#

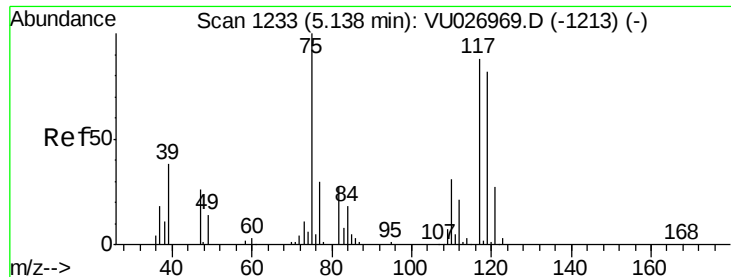


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 60.90 (60.60 to 61.60): VU0

Ion 70.00 (69.70 to 70.70): VU0





#38

Carbon Tetrachloride

Concen: 4.907 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.15 min

Lab File: VU027167.D

Acq: 26 Sep 2018 11:10

Instrument :

MSVOA_U

ClientSampleId :

MW-116-092018

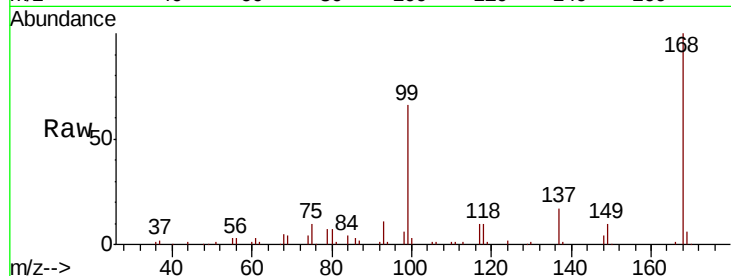
Tgt Ion:117 Resp: 10080

Ion Ratio Lower Upper

117 100

119 6.7 74.4 111.6#

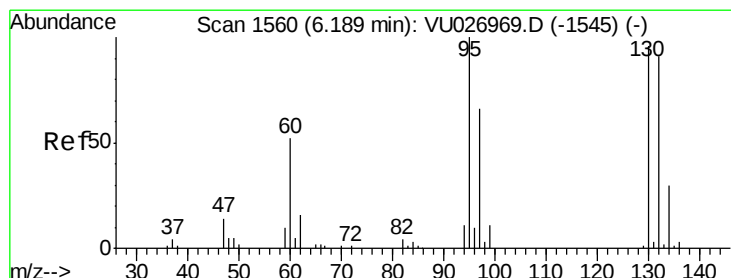
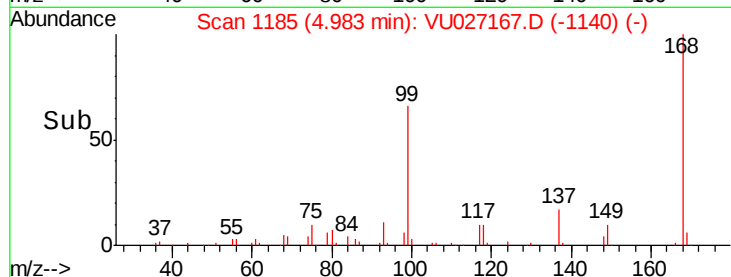
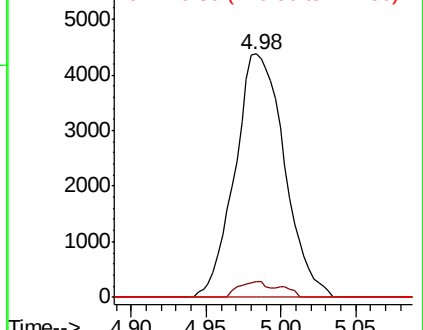
121 0.0 24.2 36.4#



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: 0.480 ug/l

RT: 6.19 min Scan# 1560

Delta R.T. -0.00 min

Lab File: VU027167.D

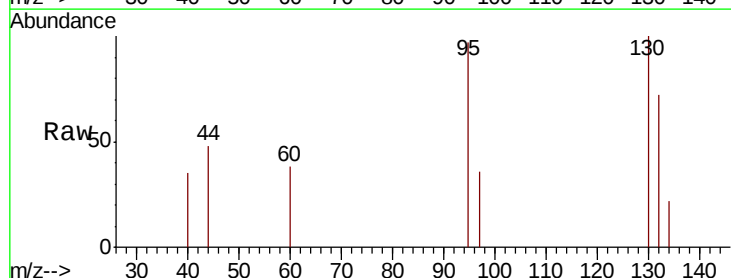
Acq: 26 Sep 2018 11:10

Tgt Ion:130 Resp: 671

Ion Ratio Lower Upper

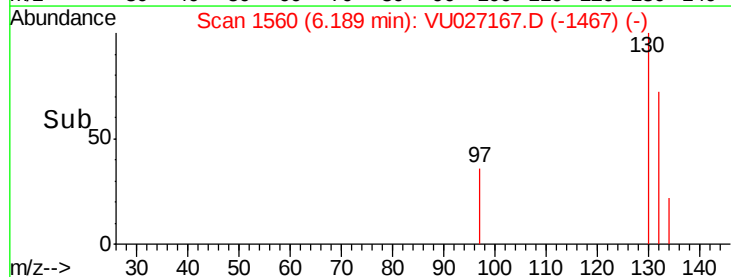
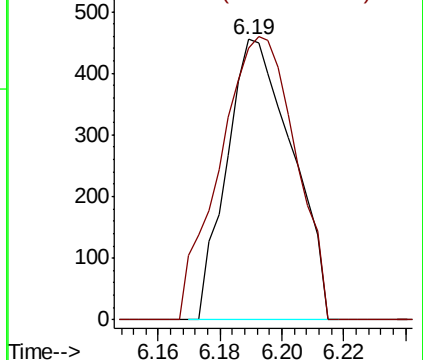
130 100

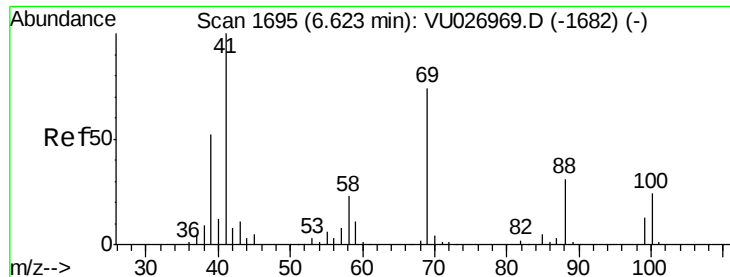
95 96.7 0.0 208.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VU0





#48

Methyl methacrylate

Concen: 1.030 ug/l

RT: 6.78 min Scan# 1744

Delta R.T. 0.16 min

Lab File: VU027167.D

Acq: 26 Sep 2018 11:10

Instrument :

MSVOA_U

ClientSampleId :

MW-116-092018

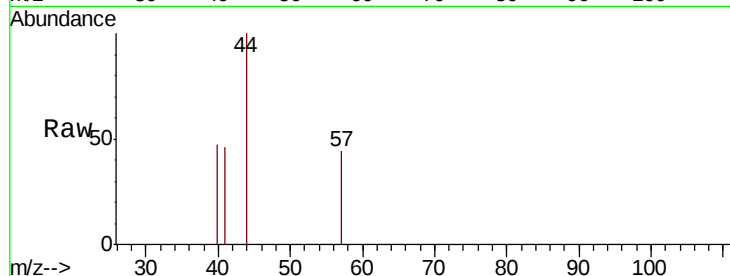
Tgt Ion: 41 Resp: 42

Ion Ratio Lower Upper

41 100

69 0.0 60.6 90.8#

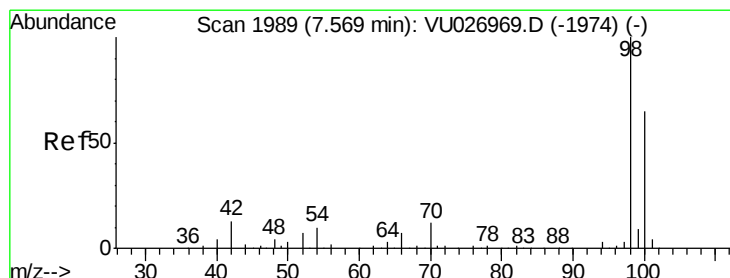
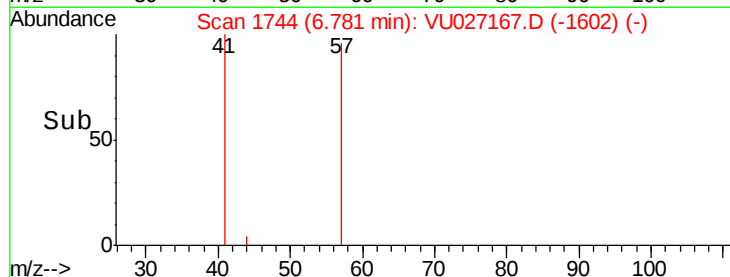
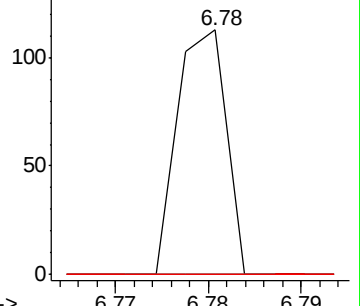
39 0.0 42.8 64.2#



Abundance Ion 41.00 (40.70 to 41.70): VU0

Ion 69.00 (68.70 to 69.70): VU0

Ion 39.00 (38.70 to 39.70): VU0



#50

Toluene-d8

Concen: 48.449 ug/l

RT: 7.57 min Scan# 1989

Delta R.T. -0.00 min

Lab File: VU027167.D

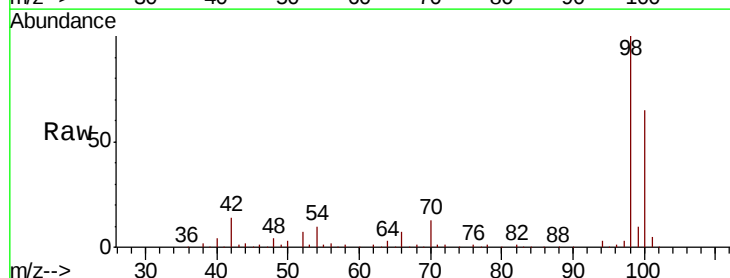
Acq: 26 Sep 2018 11:10

Tgt Ion: 98 Resp: 258883

Ion Ratio Lower Upper

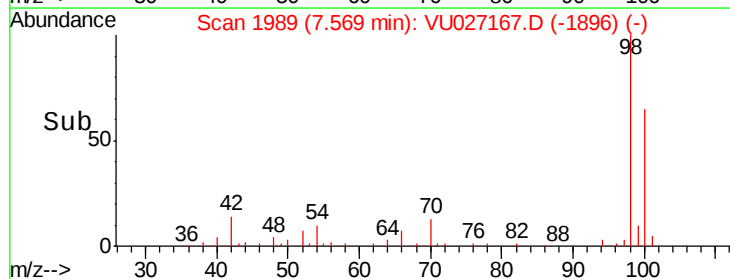
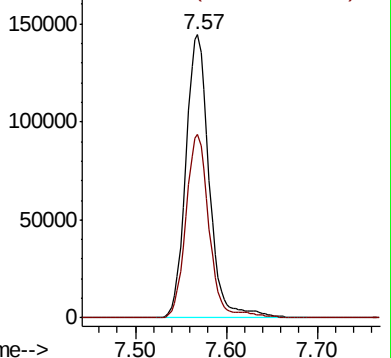
98 100

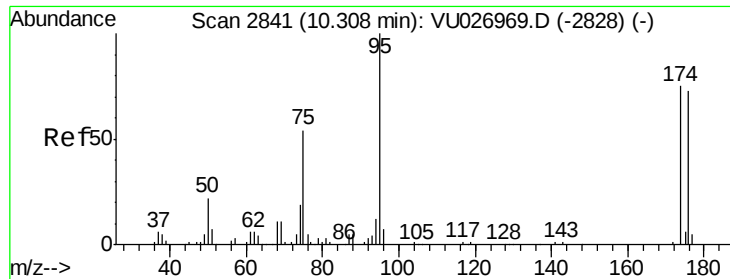
100 64.6 52.1 78.1



Abundance Ion 98.00 (97.70 to 98.70): VU0

Ion 100.00 (99.70 to 100.70): VU0

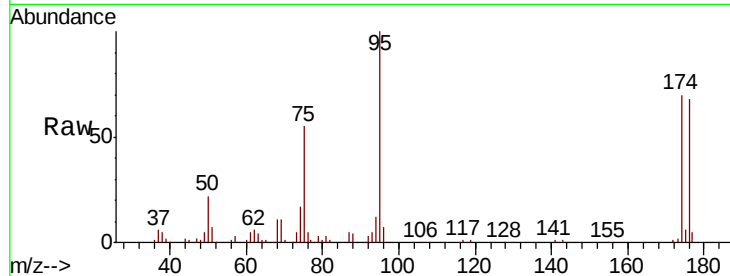




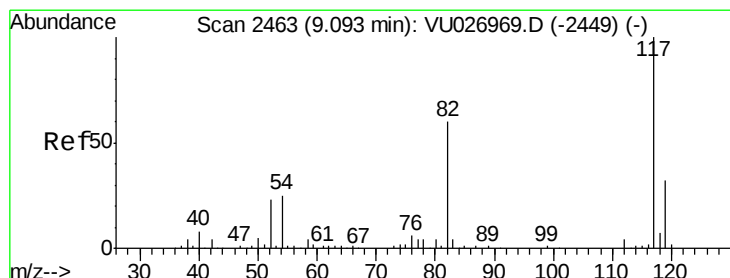
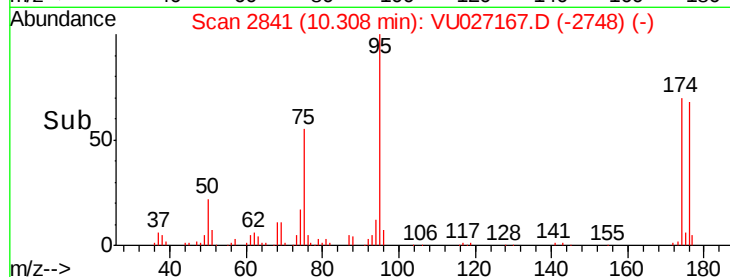
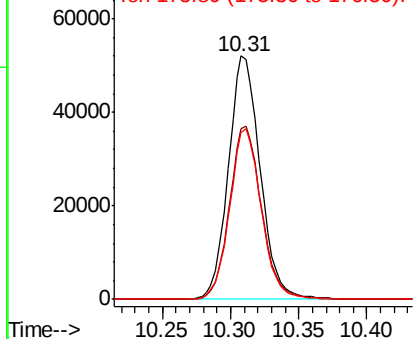
#62
 4-Bromofluorobenzene
 Concen: 46.066 ug/l
 RT: 10.31 min Scan# 2841
 Delta R.T. -0.00 min
 Lab File: VU027167.D
 Acq: 26 Sep 2018 11:10

Instrument :
 MSVOA_U
 ClientSampleId :
 MW-116-092018

Tgt Ion: 95 Resp: 84462
 Ion Ratio Lower Upper
 95 100
 174 71.8 0.0 150.2
 176 69.5 0.0 145.2

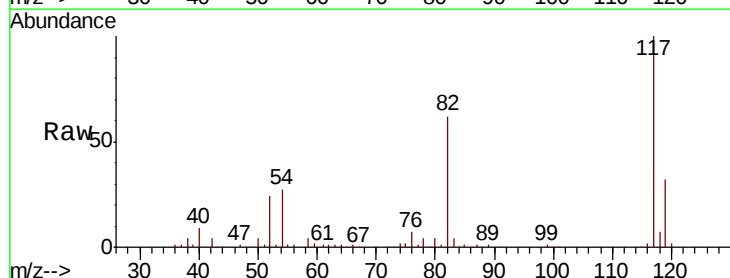


Abundance Ion 94.90 (94.60 to 95.60): VU026969.D (-2828) (-)
 Ion 173.80 (173.50 to 174.50): VU026969.D (-2828) (-)
 Ion 175.80 (175.50 to 176.50): VU026969.D (-2828) (-)

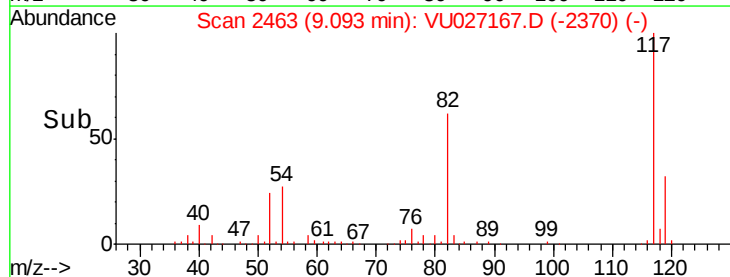
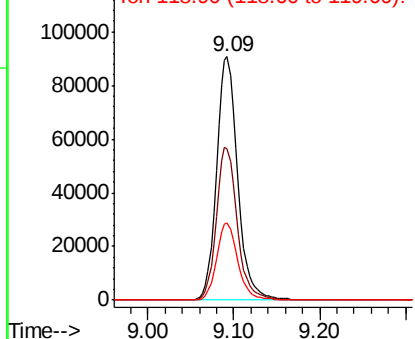


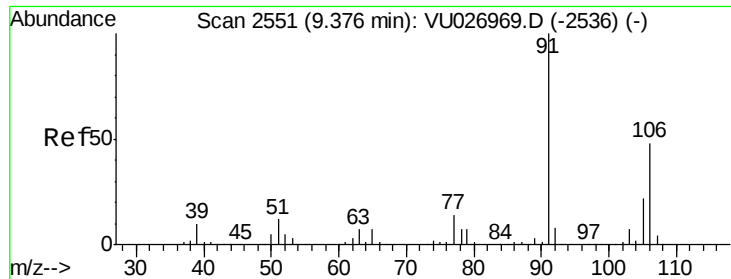
#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 9.09 min Scan# 2463
 Delta R.T. 0.00 min
 Lab File: VU027167.D
 Acq: 26 Sep 2018 11:10

Tgt Ion: 117 Resp: 154631
 Ion Ratio Lower Upper
 117 100
 82 62.2 48.0 72.0
 119 31.7 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) (-)

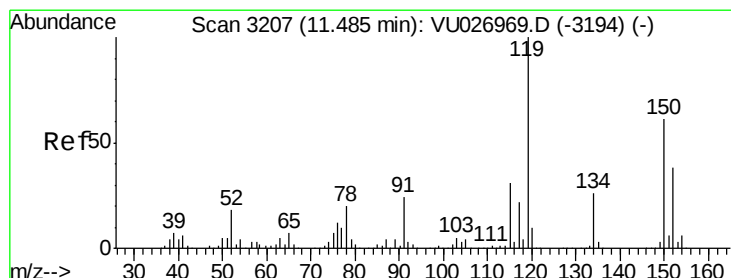
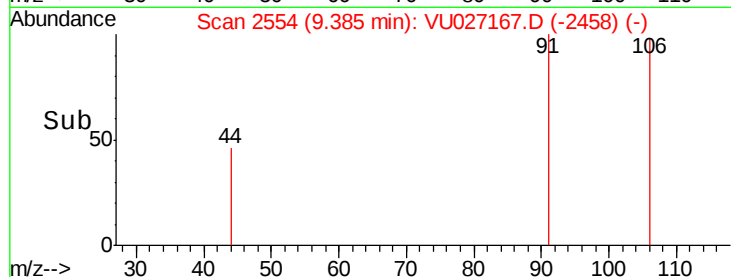
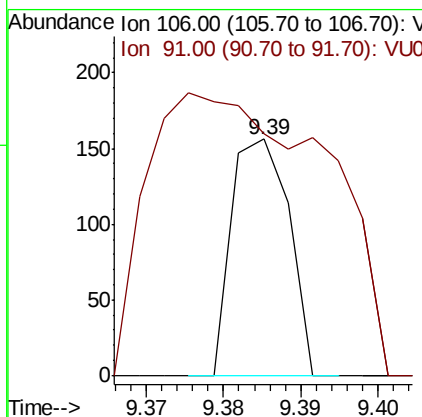
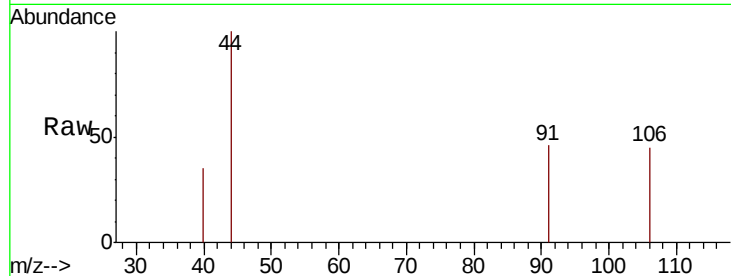




#68
m/p-Xylenes
Concen: 1.530 ug/l
RT: 9.39 min Scan# 2554
Delta R.T. 0.01 min
Lab File: VU027167.D
Acq: 26 Sep 2018 11:10

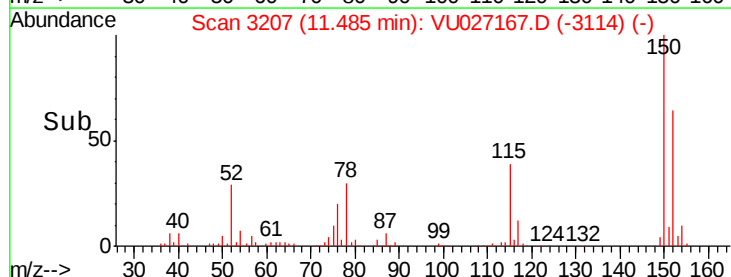
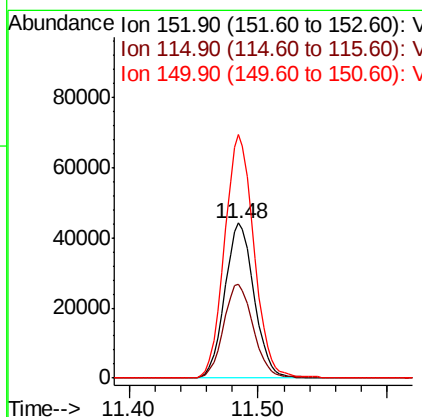
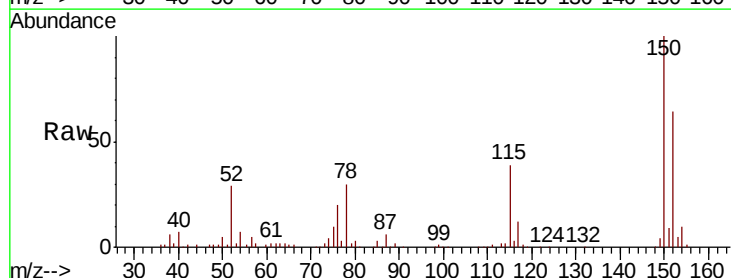
Instrument :
MSVOA_U
ClientSampleId :
MW-116-092018

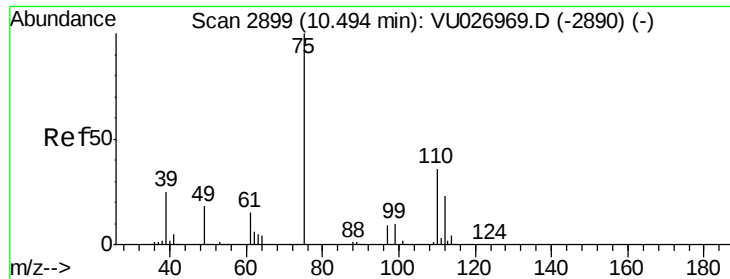
Tgt Ion:106 Resp: 80
Ion Ratio Lower Upper
106 100
91 372.5 166.5 249.7#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.48 min Scan# 3207
Delta R.T. -0.00 min
Lab File: VU027167.D
Acq: 26 Sep 2018 11:10

Tgt Ion:152 Resp: 69683
Ion Ratio Lower Upper
152 100
115 61.4 44.9 134.5
150 157.9 0.0 355.8





#76

1,2,3-Trichloropropane

Concen: 21.614 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.19 min

Lab File: VU027167.D

Acq: 26 Sep 2018 11:10

Instrument :

MSVOA_U

ClientSampleId :

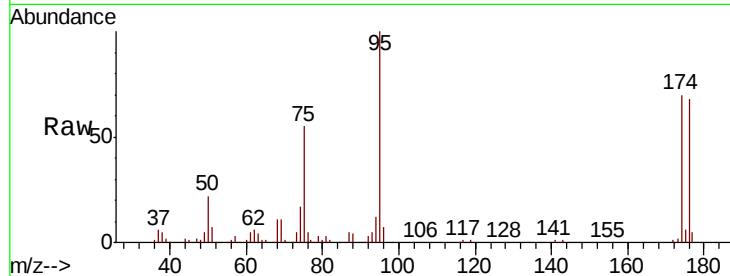
MW-116-092018

Tgt Ion: 75 Resp: 45755

Ion Ratio Lower Upper

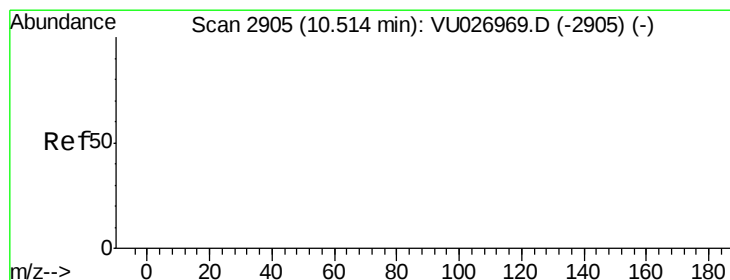
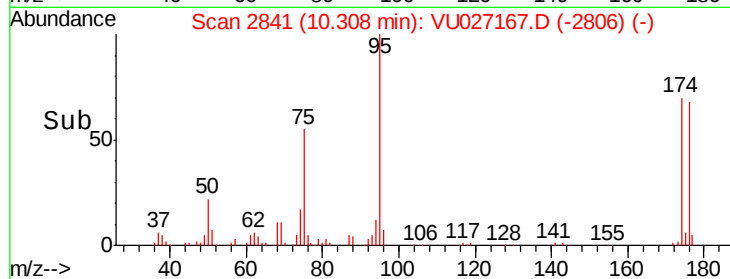
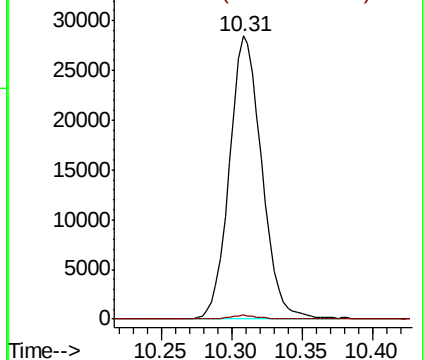
75 100

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: 69.167 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.21 min

Lab File: VU027167.D

Acq: 26 Sep 2018 11:10

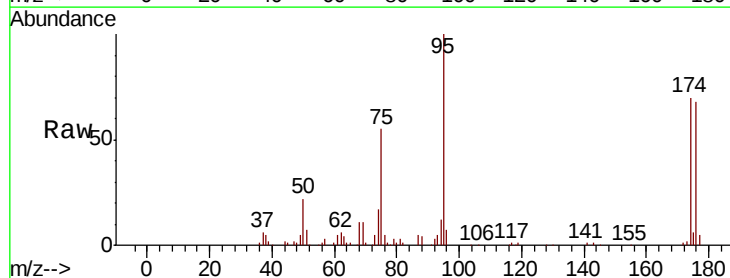
Tgt Ion: 75 Resp: 45755

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

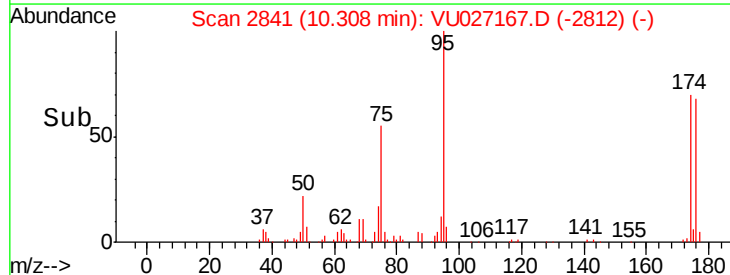
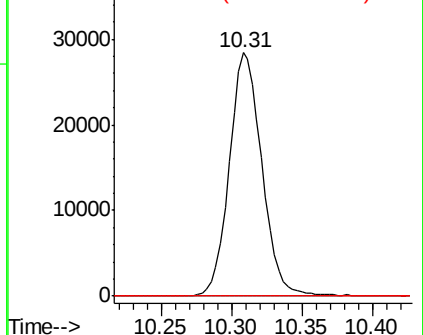
89 0.0 0.0 0.0

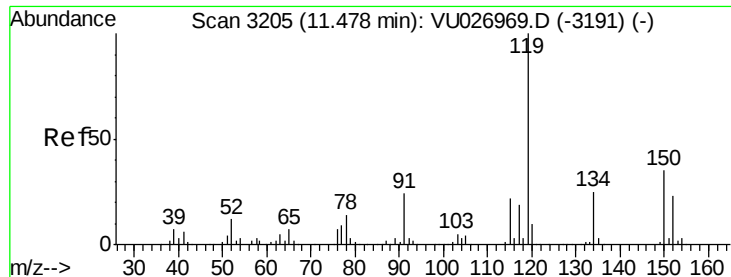


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.90 (88.60 to 89.60): VU0

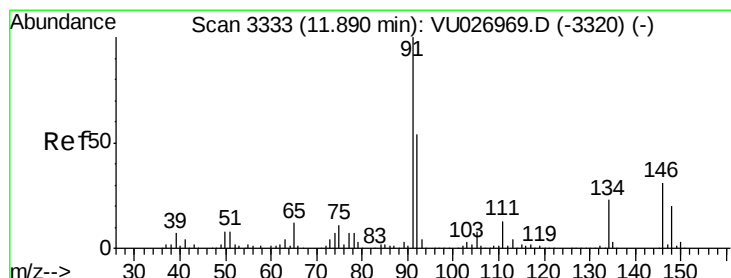
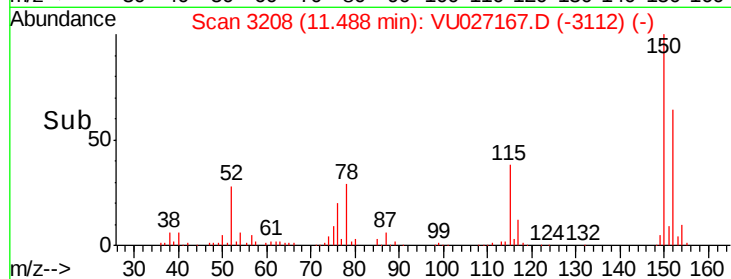
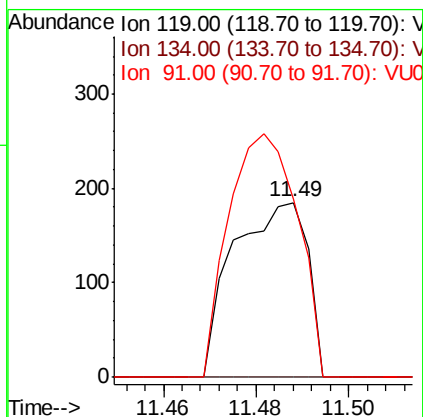
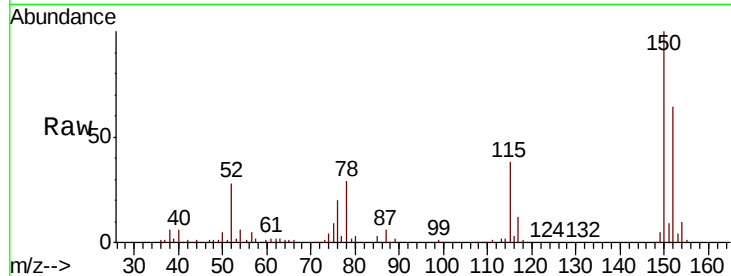




#86
p-Isopropyltoluene
Concen: 0.968 ug/l
RT: 11.49 min Scan# 3208
Delta R.T. 0.01 min
Lab File: VU027167.D
Acq: 26 Sep 2018 11:10

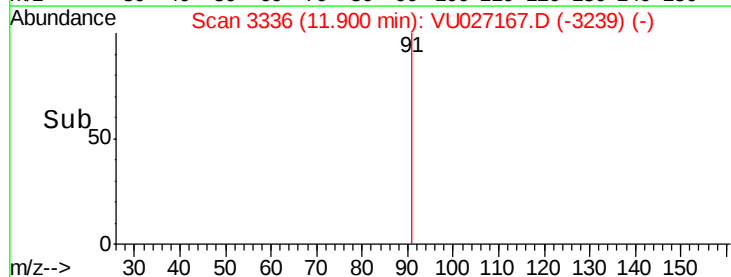
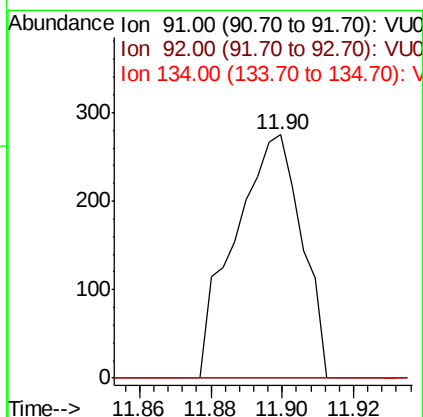
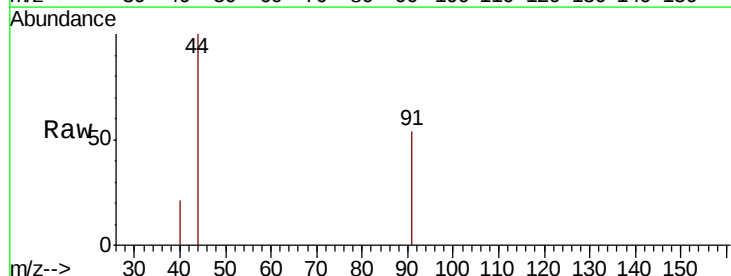
Instrument :
MSVOA_U
ClientSampleId :
MW-116-092018

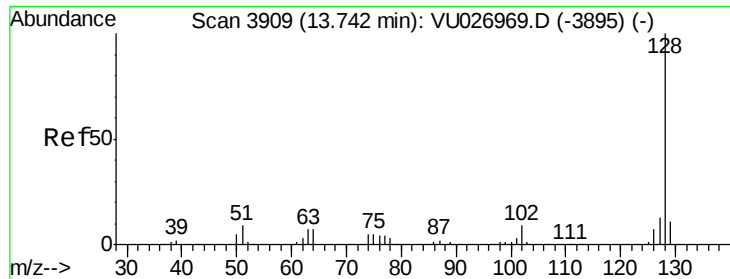
Tgt Ion: 119 Resp: 204
Ion Ratio Lower Upper
119 100
134 0.0 12.8 38.3#
91 129.9 12.3 36.8#



#89
n-Butylbenzene
Concen: 2.463 ug/l
RT: 11.90 min Scan# 3336
Delta R.T. 0.01 min
Lab File: VU027167.D
Acq: 26 Sep 2018 11:10

Tgt Ion: 91 Resp: 355
Ion Ratio Lower Upper
91 100
92 0.0 27.1 81.2#
134 0.0 11.7 35.0#





#95

Naphthalene

Concen: 1.730 ug/l

RT: 13.75 min Scan# 3913

Delta R.T. 0.01 min

Lab File: VU027167.D

Acq: 26 Sep 2018 11:10

Instrument :

MSVOA_U

ClientSampleId :

MW-116-092018

Tgt Ion:128 Resp: 243

Ion Ratio Lower Upper

128 100

127 0.0 10.6 15.8#

129 0.0 8.6 12.8#

