

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU070218\
 Data File : VU025141.D
 Acq On : 02 Jul 2018 14:22
 Operator : MD/SY
 Sample : J3759-15DL 200X
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 WP021MW120-180626DL

Quant Time: Jul 03 02:59:10 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U061318W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 13 13:55:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	211504	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	312919	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	290232	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	149668	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	159505	46.20	ug/l	0.00
Spiked Amount			Recovery	=	92.40%	
35) Dibromofluoromethane	4.89	113	123575	47.58	ug/l	0.00
Spiked Amount			Recovery	=	95.16%	
50) Toluene-d8	7.57	98	453600	47.88	ug/l	0.00
Spiked Amount			Recovery	=	95.76%	
62) 4-Bromofluorobenzene	10.31	95	167069	44.42	ug/l	0.00
Spiked Amount			Recovery	=	88.84%	

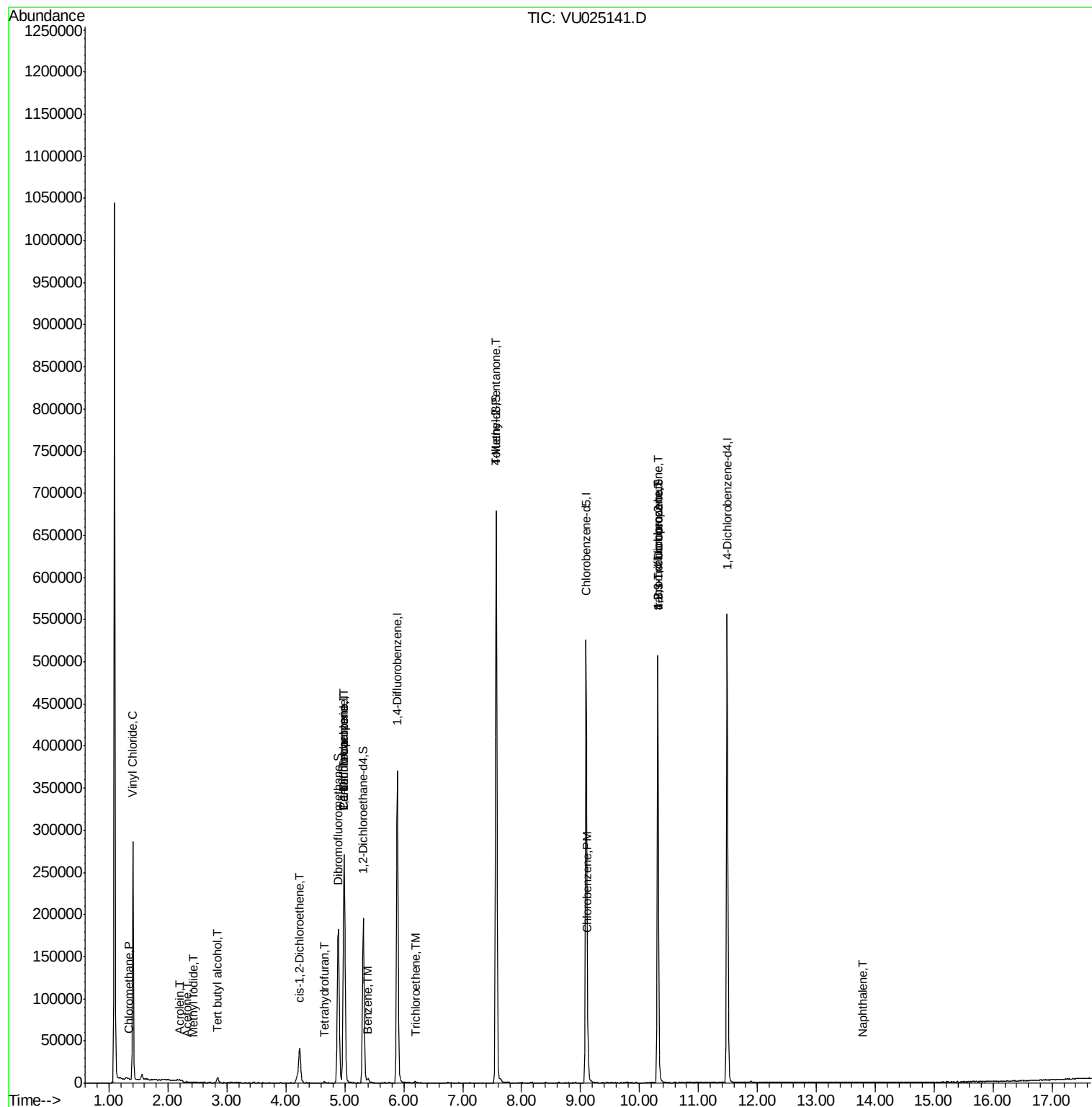
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	558	0.206	ug/l	93
4) Vinyl Chloride	1.40	62	177183	63.523	ug/l	97
10) Methyl Iodide	2.42	142	153	5.350	ug/l #	40
11) Tert butyl alcohol	2.84	59	3961	4.717	ug/l #	72
13) Acrolein	2.18	56	92	0.209	ug/l #	1
16) Acetone	2.32	43	1141	0.615	ug/l	96
27) cis-1,2-Dichloroethene	4.23	96	23103	7.576	ug/l	88
29) Tetrahydrofuran	4.65	42	384	0.249	ug/l #	56
31) Cyclohexane	5.00	56	4242	Below Cal	#	18
36) 1,1-Dichloropropene	4.99	75	15926	4.331	ug/l #	46
38) Carbon Tetrachloride	4.99	117	20232	5.004	ug/l #	17
40) Benzene	5.40	78	3938	0.376	ug/l #	89
44) Trichloroethene	6.19	130	926	0.311	ug/l	85
51) 4-Methyl-2-Pentanone	7.57	43	1981	0.455	ug/l #	1
65) Chlorobenzene	9.12	112	22128	2.984	ug/l	98
76) 1,2,3-Trichloropropane	10.31	75	88624	26.895	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.31	75	88624	62.247	ug/l #	100
95) Naphthalene	13.78	128	149	0.693	ug/l #	69

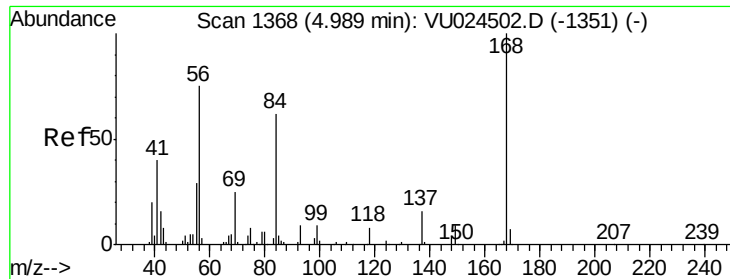
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. 0.00 min

Lab File: VU025141.D

Acq: 02 Jul 2018 14:22

Instrument :

MSVOA_U

ClientSampleId :

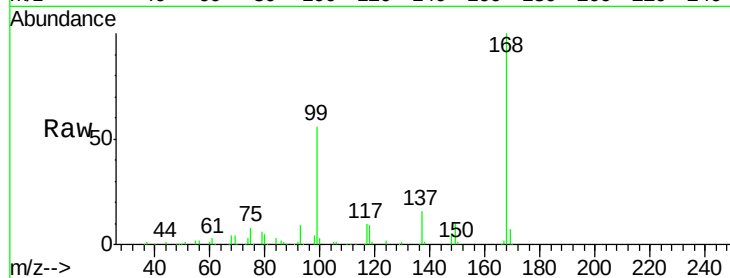
WP021MW120-180626DL

Tot Ion:168 Resp: 211504

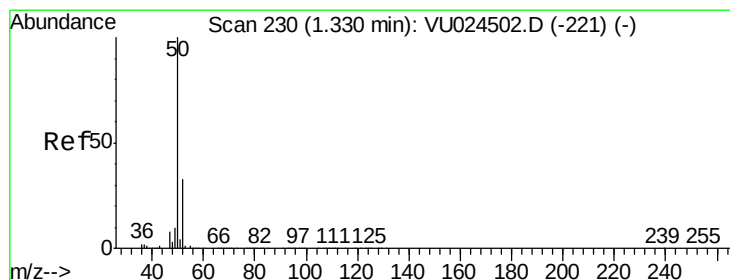
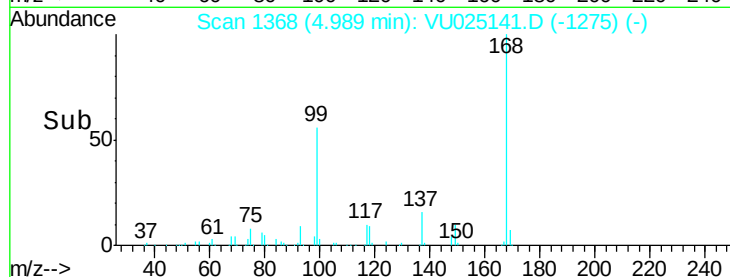
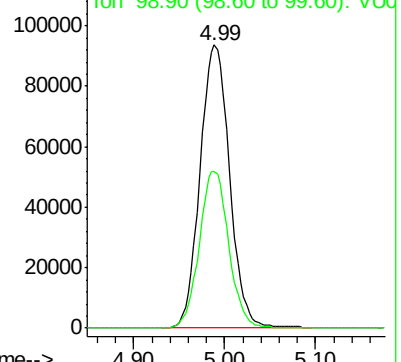
Ion Ratio Lower Upper

168 100

99 55.5 43.2 64.8



Abundance Ion 167.90 (167.60 to 168.60): VU025141.D (-1275) (-)



#3

Chloromethane

Concen: 0.206 ug/l

RT: 1.33 min Scan# 230

Delta R.T. 0.00 min

Lab File: VU025141.D

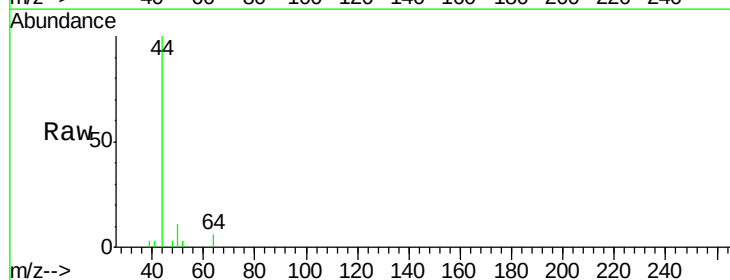
Acq: 02 Jul 2018 14:22

Tgt Ion: 50 Resp: 558

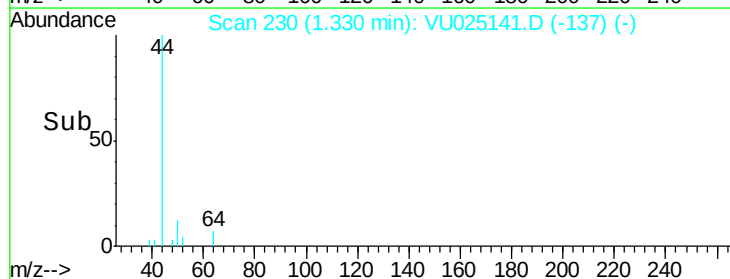
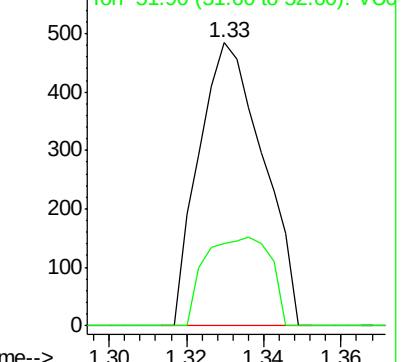
Ion Ratio Lower Upper

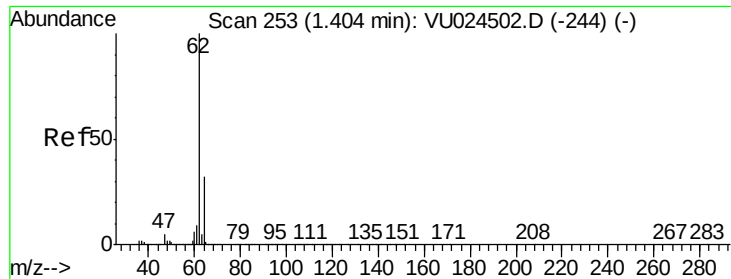
50 100

52 29.1 26.4 39.6



Abundance Ion 49.90 (49.60 to 50.60): VU025141.D (-137) (-)





#4

Vinyl Chloride

Concen: 63.523 ug/l

RT: 1.40 min Scan# 253

Delta R.T. 0.00 min

Lab File: VU025141.D

Acq: 02 Jul 2018 14:22

Instrument :

MSVOA_U

ClientSampleId :

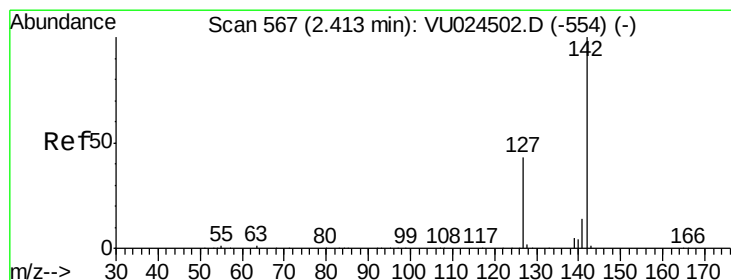
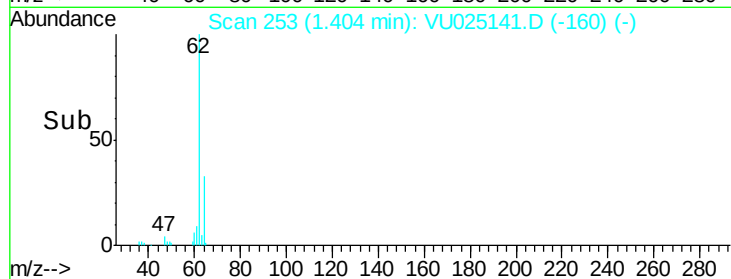
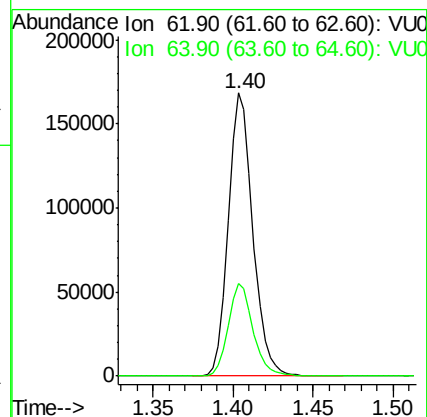
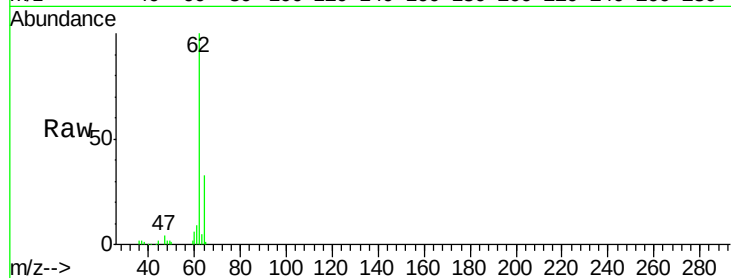
WP021MW120-180626DL

Tot Ion: 62 Resp: 177183

Ion Ratio Lower Upper

62 100

64 32.8 24.8 37.2



#10

Methyl Iodide

Concen: 5.350 ug/l

RT: 2.42 min Scan# 569

Delta R.T. 0.01 min

Lab File: VU025141.D

Acq: 02 Jul 2018 14:22

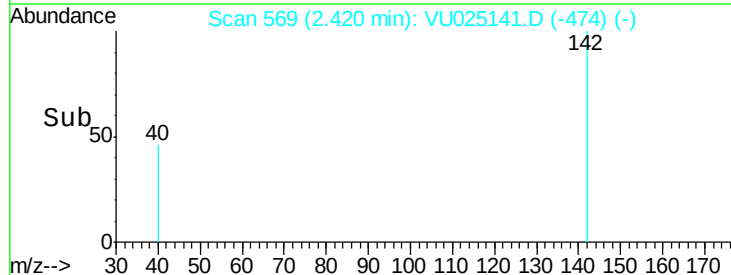
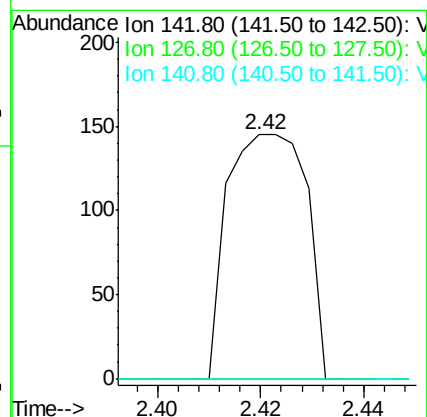
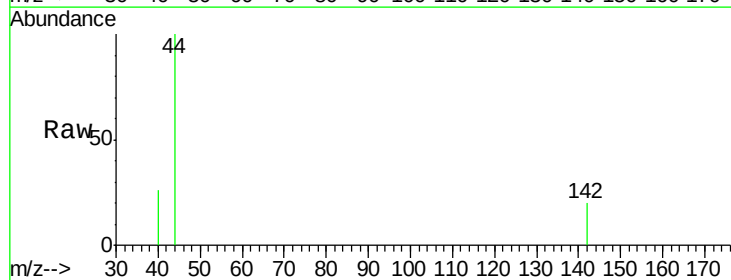
Tgt Ion: 142 Resp: 153

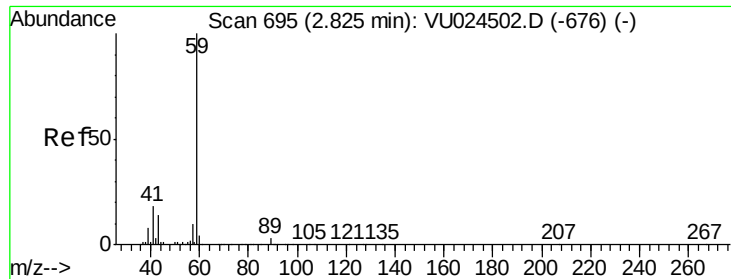
Ion Ratio Lower Upper

142 100

127 0.0 35.6 53.4#

141 0.0 11.7 17.5#

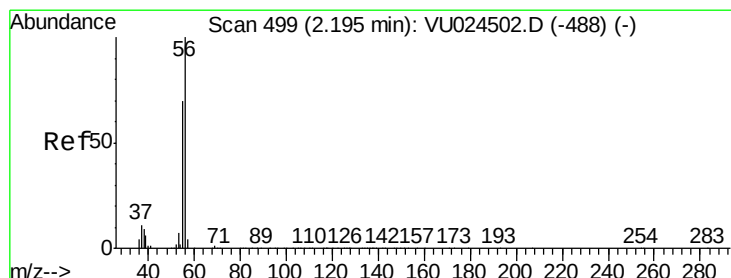
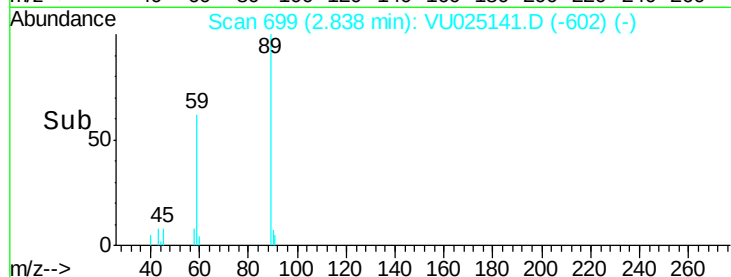
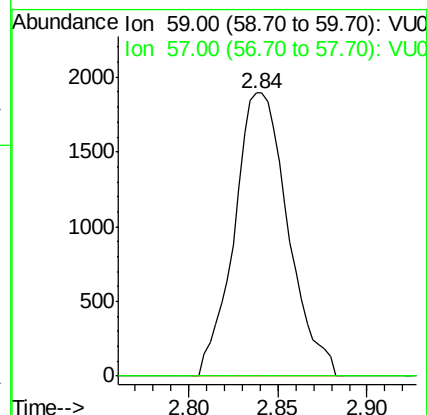
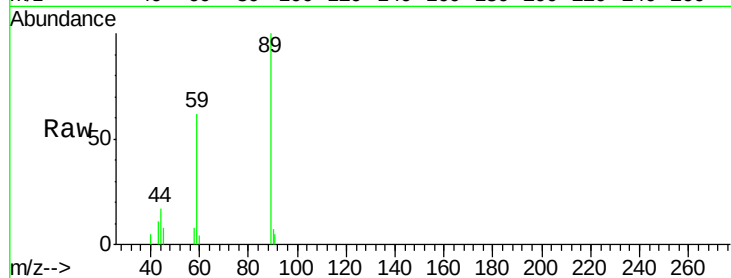




#11
Tert butyl alcohol
Concen: 4.717 ug/l
RT: 2.84 min Scan# 699
Delta R.T. 0.01 min
Lab File: VU025141.D
Acq: 02 Jul 2018 14:22

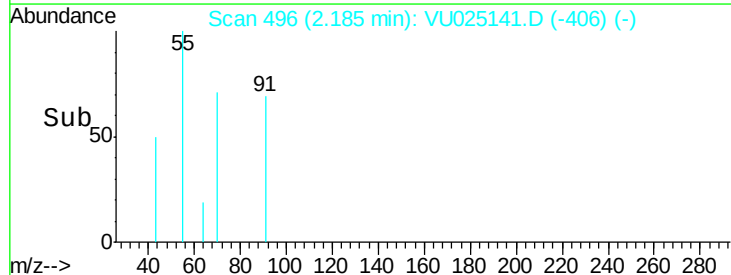
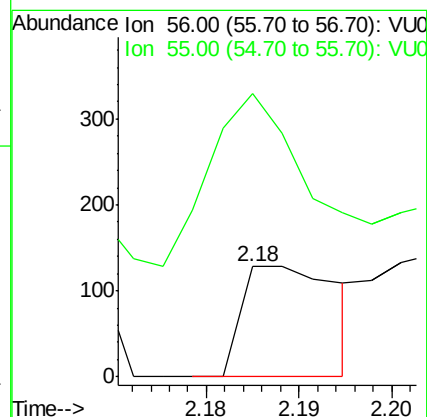
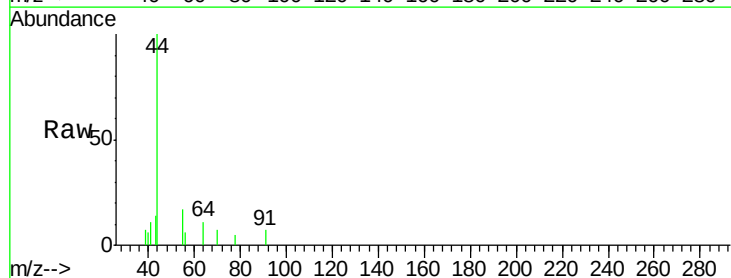
Instrument :
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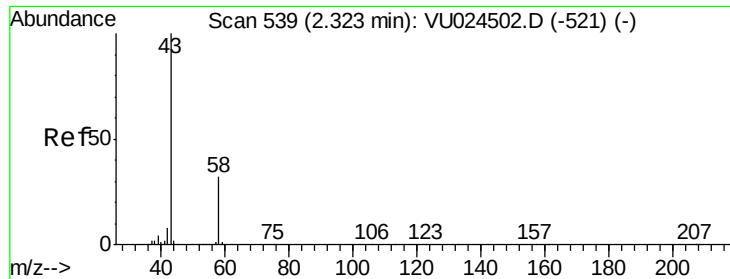
Tot Ion: 59 Resp: 3961
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#



#13
Acrolein
Concen: 0.209 ug/l
RT: 2.18 min Scan# 496
Delta R.T. -0.01 min
Lab File: VU025141.D
Acq: 02 Jul 2018 14:22

Tgt Ion: 56 Resp: 92
Ion Ratio Lower Upper
56 100
55 163.0 58.4 87.6#





#16

Acetone

Concen: 0.615 ug/l

RT: 2.32 min Scan# 538

Delta R.T. -0.00 min

Lab File: VU025141.D

Acq: 02 Jul 2018 14:22

Instrument :

MSVOA_U

ClientSampleId :

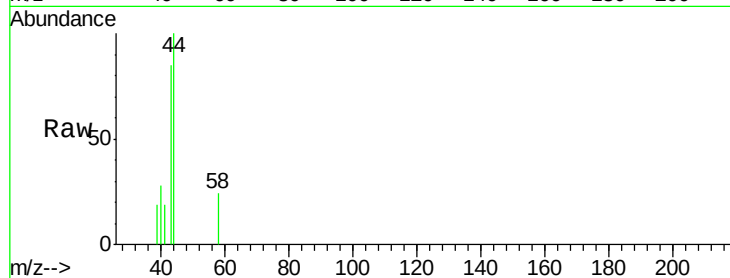
WP021MW120-180626DL

Tot Ion: 43 Resp: 1141

Ion Ratio Lower Upper

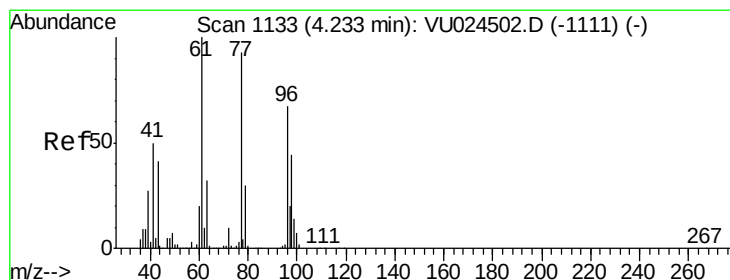
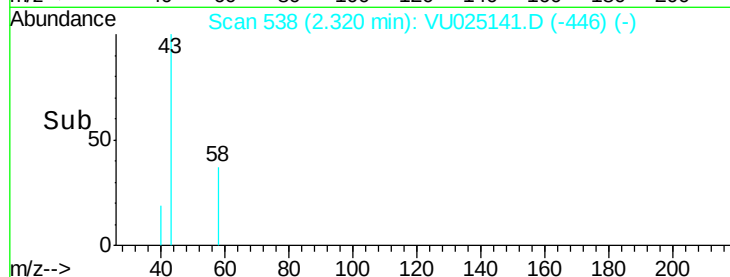
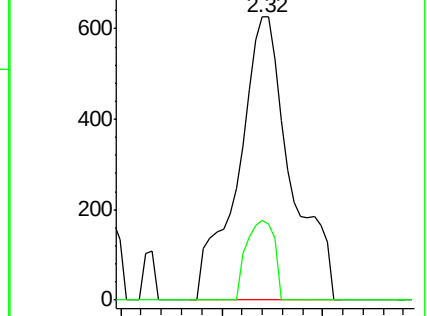
43 100

58 28.1 24.4 36.6



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#27

cis-1,2-Dichloroethene

Concen: 7.576 ug/l

RT: 4.23 min Scan# 1132

Delta R.T. -0.00 min

Lab File: VU025141.D

Acq: 02 Jul 2018 14:22

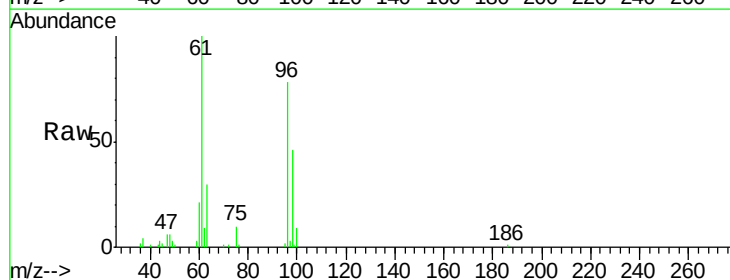
Tgt Ion: 96 Resp: 23103

Ion Ratio Lower Upper

96 100

61 130.7 0.0 306.6

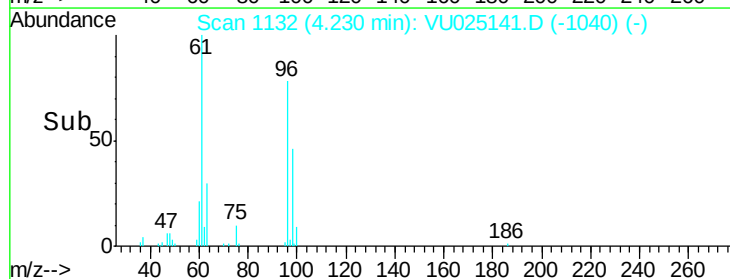
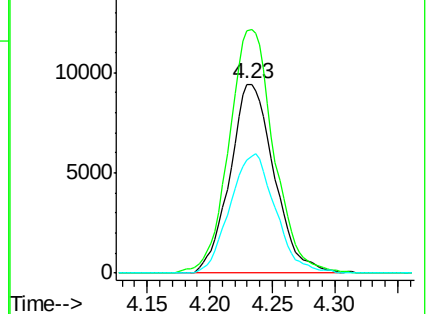
98 64.4 0.0 128.8

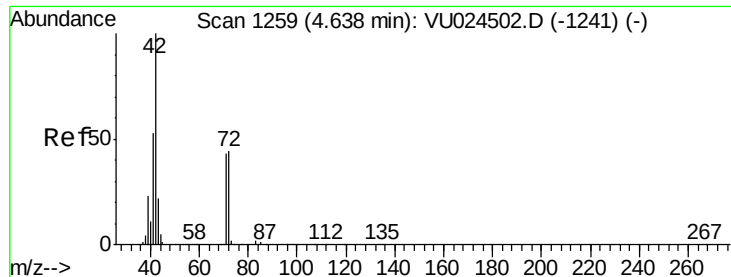


Abundance Ion 95.90 (95.60 to 96.60): VU0

Ion 60.90 (60.60 to 61.60): VU0

Ion 97.90 (97.60 to 98.60): VU0

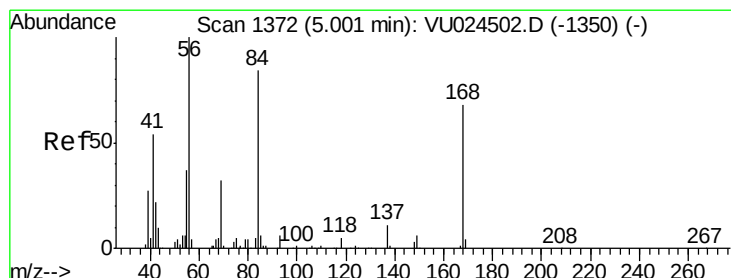
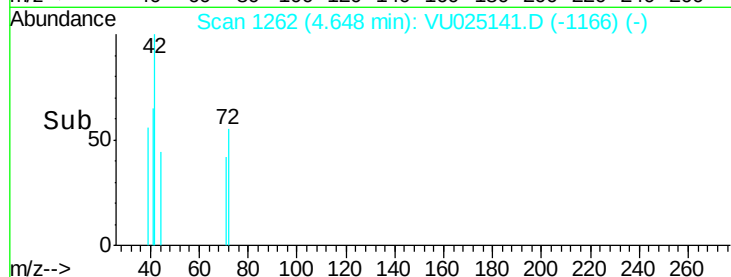
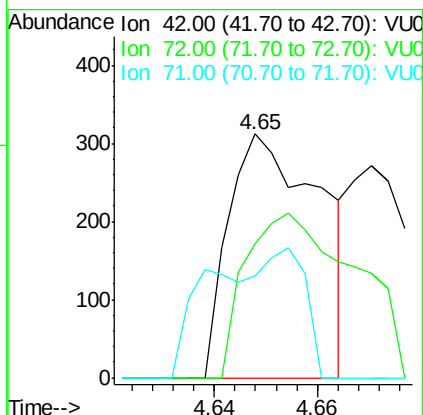
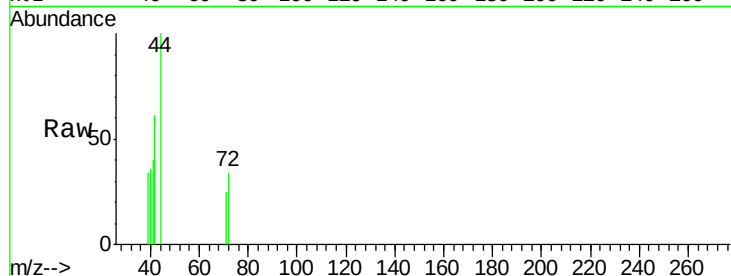




#29
Tetrahydrofuran
Concen: 0.249 ug/l
RT: 4.65 min Scan# 1262
Delta R.T. 0.01 min
Lab File: VU025141.D
Acq: 02 Jul 2018 14:22

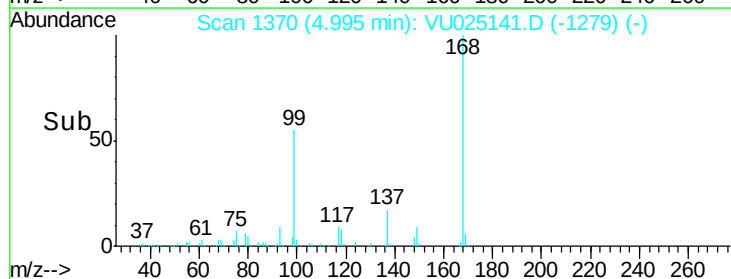
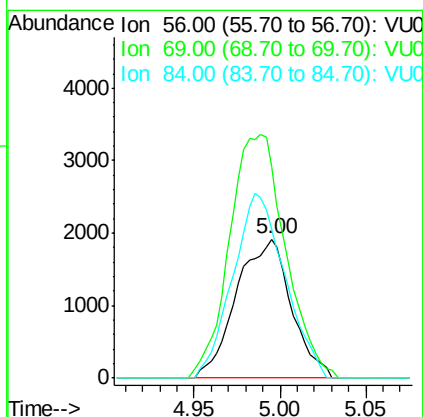
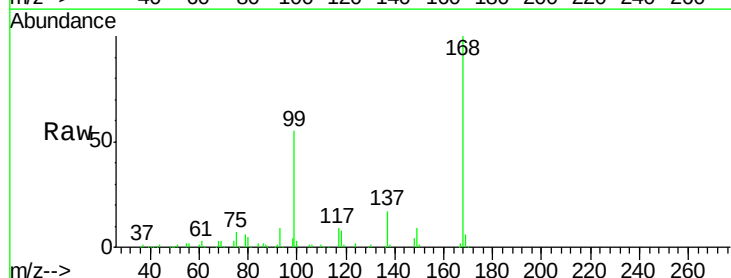
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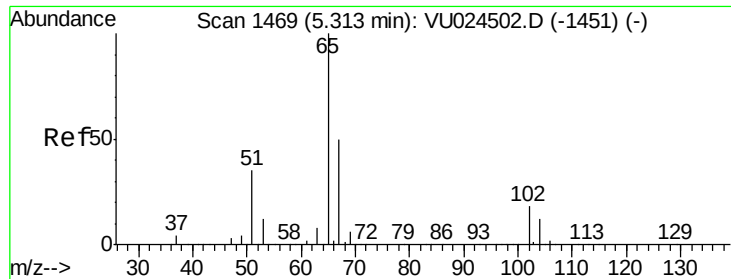
Tot Ion: 42 Resp: 384
Ion Ratio Lower Upper
42 100
72 80.7 34.5 51.7#
71 22.9 32.2 48.4#



#31
Cyclohexane
Concen: Below Cal
RT: 5.00 min Scan# 1370
Delta R.T. -0.01 min
Lab File: VU025141.D
Acq: 02 Jul 2018 14:22

Tgt Ion: 56 Resp: 4242
Ion Ratio Lower Upper
56 100
69 152.4 24.8 37.2#
84 107.0 65.2 97.8#

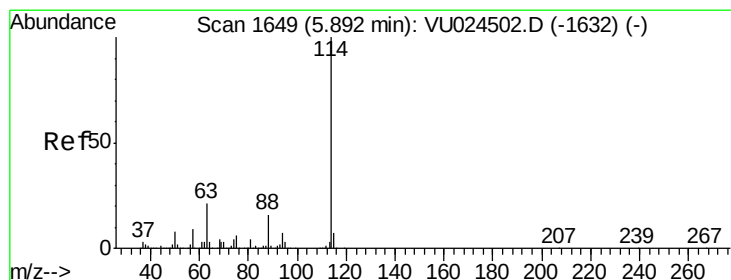
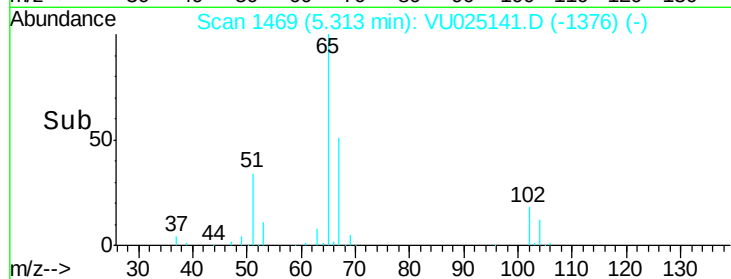
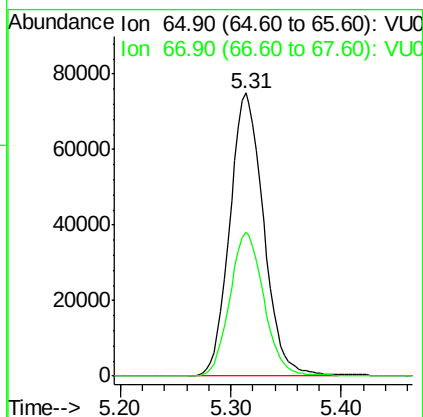
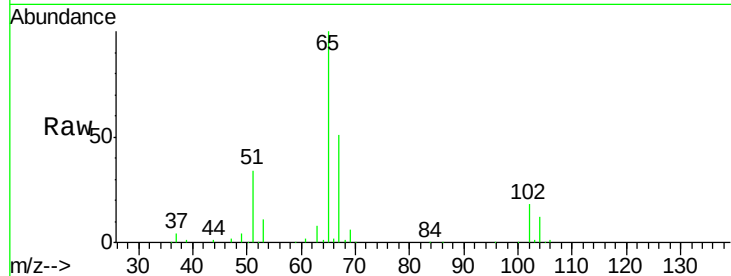




#33
 1,2-Dichloroethane-d4
 Concen: 46.195 ug/l
 RT: 5.31 min Scan# 1469
 Delta R.T. 0.00 min
 Lab File: VU025141.D
 Acq: 02 Jul 2018 14:22

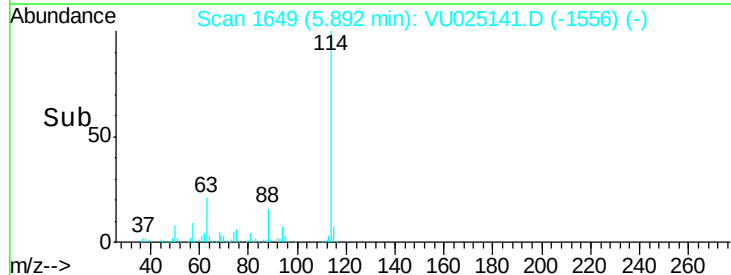
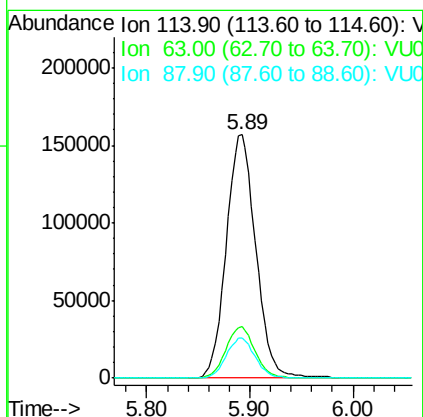
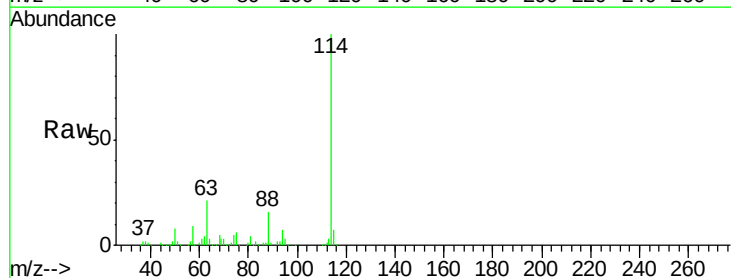
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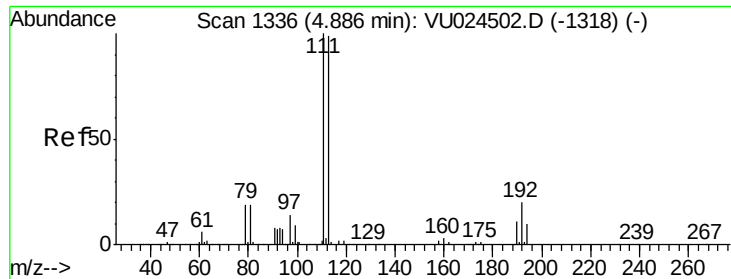
Tot Ion: 65 Resp: 159505
 Ion Ratio Lower Upper
 65 100
 67 51.3 0.0 107.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1649
 Delta R.T. 0.00 min
 Lab File: VU025141.D
 Acq: 02 Jul 2018 14:22

Tgt Ion: 114 Resp: 312919
 Ion Ratio Lower Upper
 114 100
 63 21.0 0.0 45.4
 88 16.4 0.0 31.0

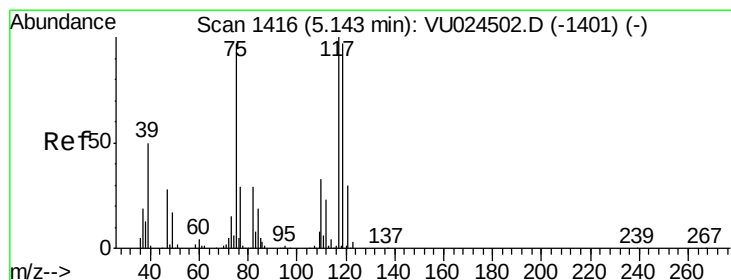
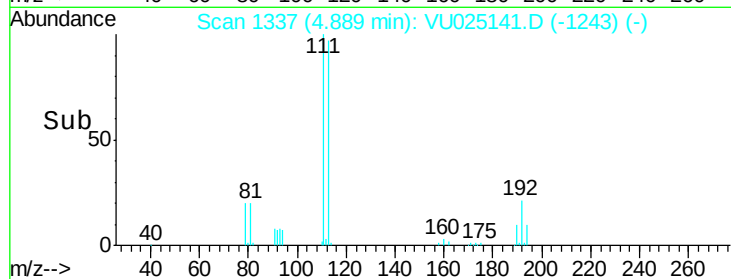
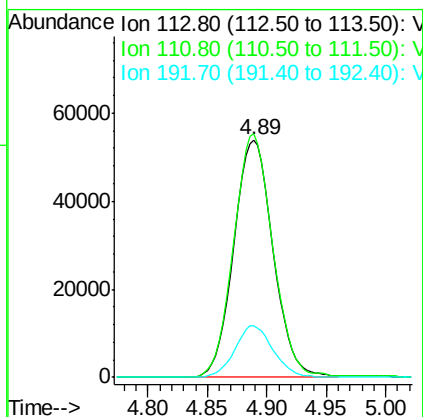
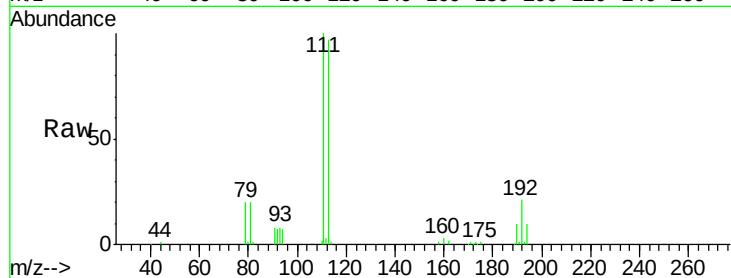




#35
 Dibromofluoromethane
 Concen: 47.584 ug/l
 RT: 4.89 min Scan# 1337
 Delta R.T. 0.00 min
 Lab File: VU025141.D
 Acq: 02 Jul 2018 14:22

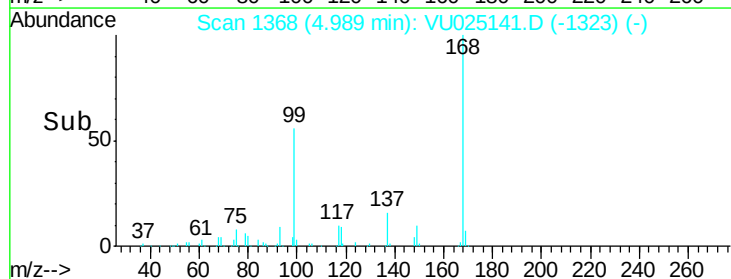
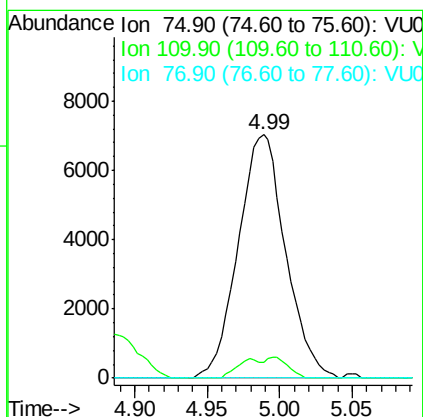
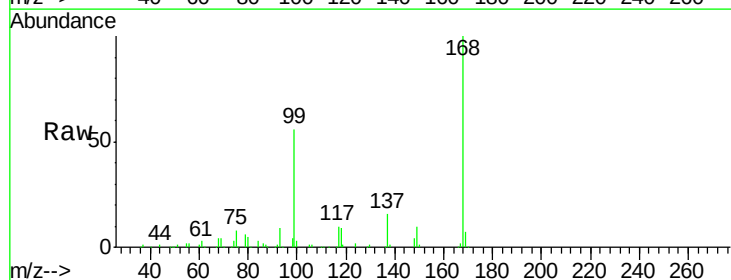
Instrument :
 MSVOA_U
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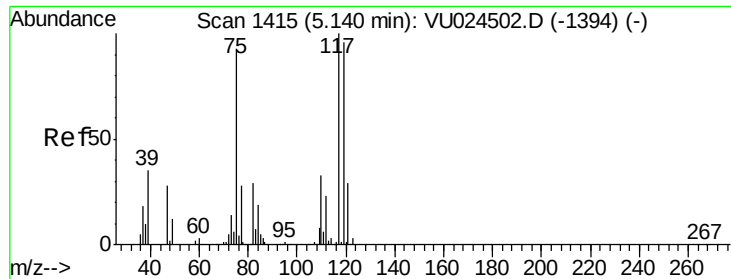
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.0	82.2	123.4
192	21.2	16.2	24.4



#36
 1,1-Dichloropropene
 Concen: 4.331 ug/l
 RT: 4.99 min Scan# 1368
 Delta R.T. -0.15 min
 Lab File: VU025141.D
 Acq: 02 Jul 2018 14:22

Tgt Ion	Ratio	Lower	Upper
75	100		
110	3.9	17.0	50.9#
77	0.0	24.2	36.4#





#38

Carbon Tetrachloride

Concen: 5.004 ug/l

RT: 4.99 min Scan# 1367

Delta R.T. -0.15 min

Lab File: VU025141.D

Acq: 02 Jul 2018 14:22

Instrument :

MSVOA_U

ClientSampleId :

WP021MW120-180626DL

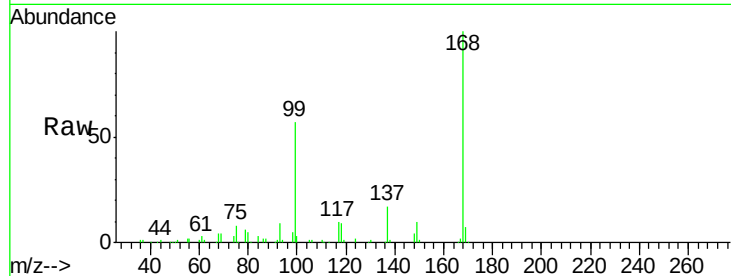
Tot Ion:117 Resp: 20232

Ion Ratio Lower Upper

117 100

119 5.5 76.1 114.1#

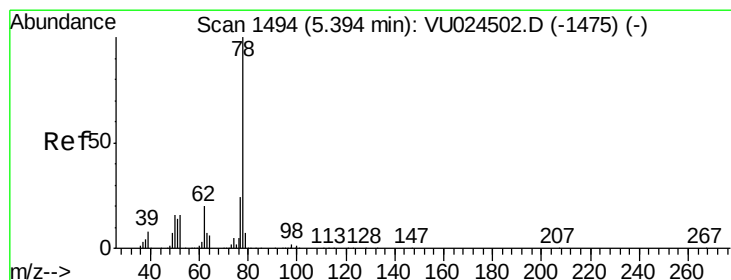
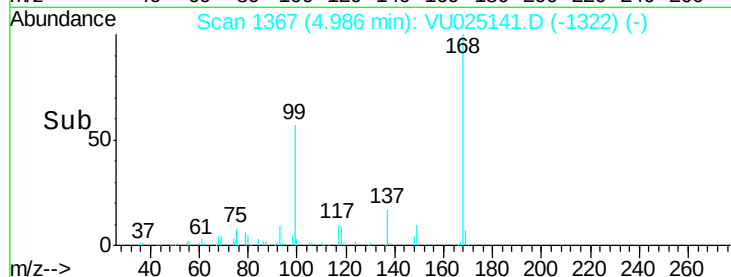
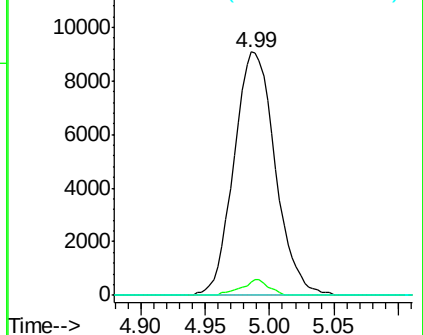
121 0.0 23.7 35.5#



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



#40

Benzene

Concen: 0.376 ug/l

RT: 5.40 min Scan# 1495

Delta R.T. 0.00 min

Lab File: VU025141.D

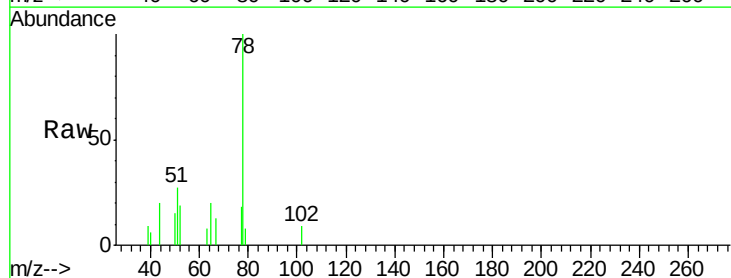
Acq: 02 Jul 2018 14:22

Tgt Ion: 78 Resp: 3938

Ion Ratio Lower Upper

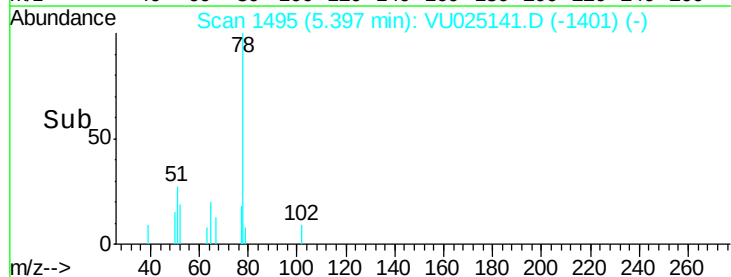
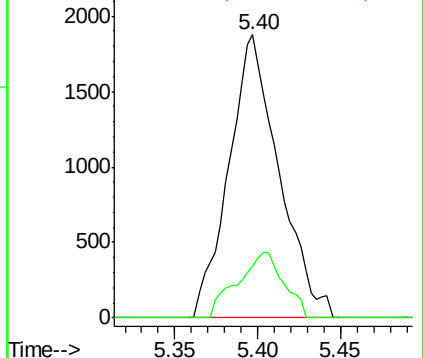
78 100

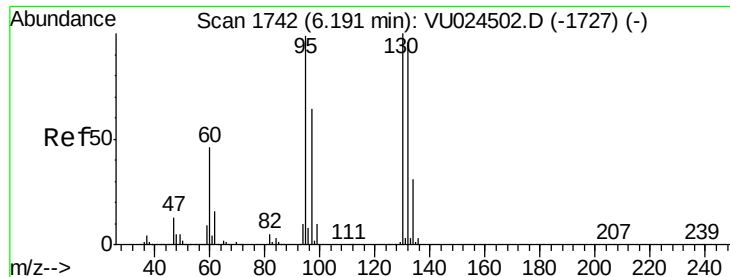
77 18.4 19.2 28.8#



Abundance Ion 78.00 (77.70 to 78.70): VU0

Ion 77.00 (76.70 to 77.70): VU0





#44

Trichloroethene

Concen: 0.311 ug/l

RT: 6.19 min Scan# 1743

Delta R.T. 0.00 min

Lab File: VU025141.D

Acq: 02 Jul 2018 14:22

Instrument :

MSVOA_U

ClientSampleId :

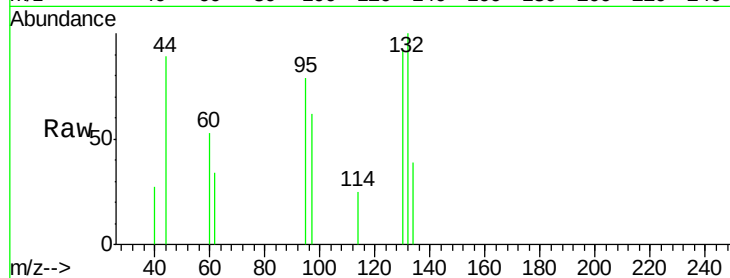
WP021MW120-180626DL

Tot Ion:130 Resp: 926

Ion Ratio Lower Upper

130 100

95 85.6 0.0 202.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VU0

6.19

400

300

200

100

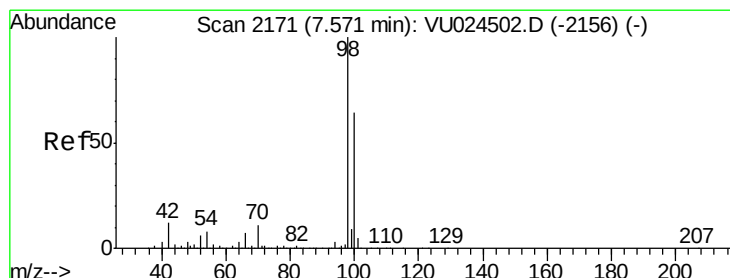
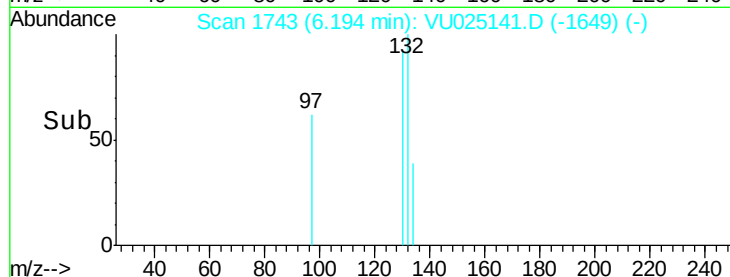
0

6.15

6.20

6.25

Time-->



#50

Toluene-d8

Concen: 47.885 ug/l

RT: 7.57 min Scan# 2170

Delta R.T. -0.00 min

Lab File: VU025141.D

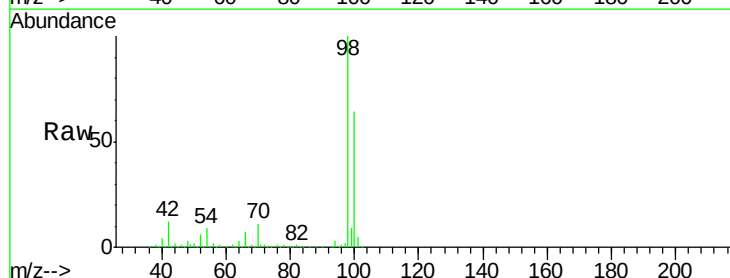
Acq: 02 Jul 2018 14:22

Tgt Ion: 98 Resp: 453600

Ion Ratio Lower Upper

98 100

100 63.9 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VU0

Ion 100.00 (99.70 to 100.70): VU

7.57

300000

250000

200000

150000

100000

50000

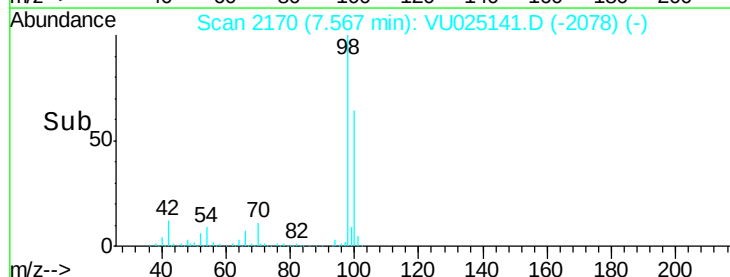
0

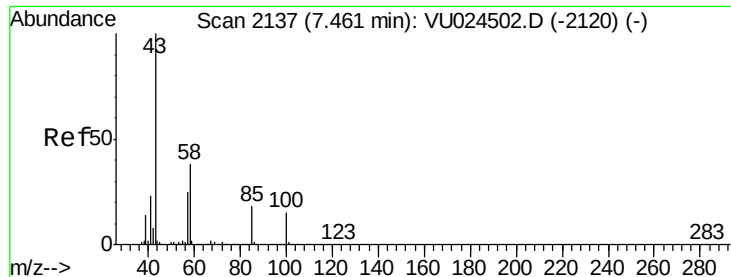
7.55

7.60

7.70

Time-->





#51

4-Methyl-2-Pentanone

Concen: 0.455 ug/l

RT: 7.57 min Scan# 2170

Delta R.T. 0.11 min

Lab File: VU025141.D

Acq: 02 Jul 2018 14:22

Instrument :

MSVOA_U

ClientSampleId :

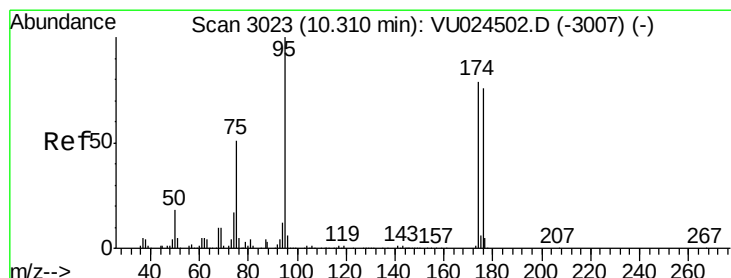
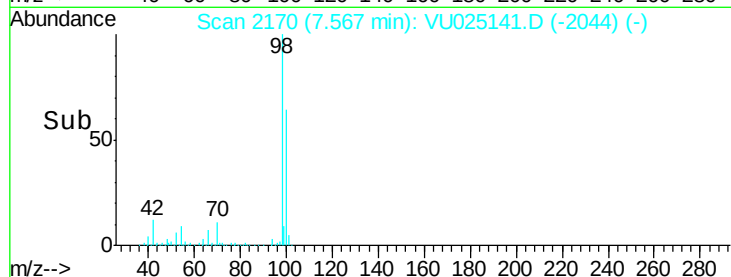
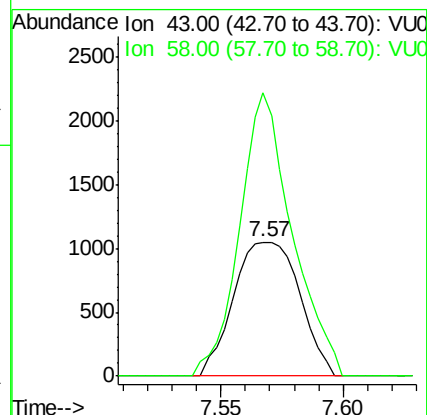
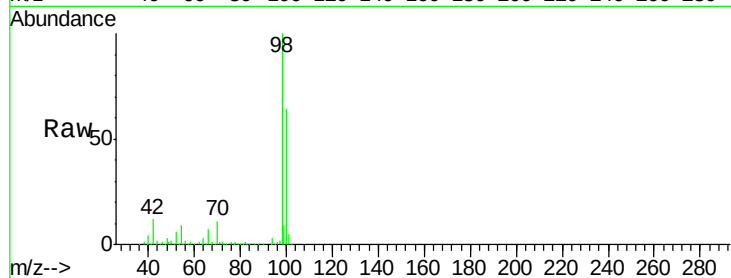
WP021MW120-180626DL

Tot Ion: 43 Resp: 1981

Ion Ratio Lower Upper

43 100

58 166.9 30.0 45.0#



#62

4-Bromofluorobenzene

Concen: 44.421 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. 0.00 min

Lab File: VU025141.D

Acq: 02 Jul 2018 14:22

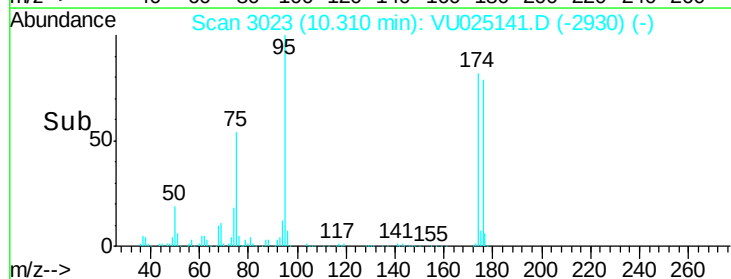
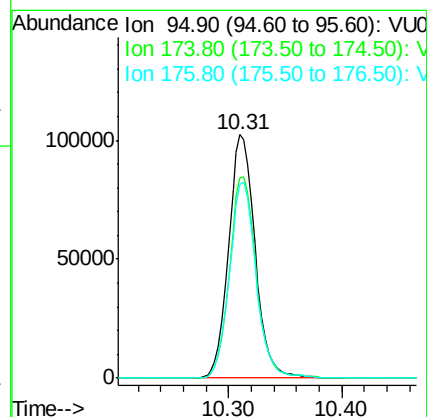
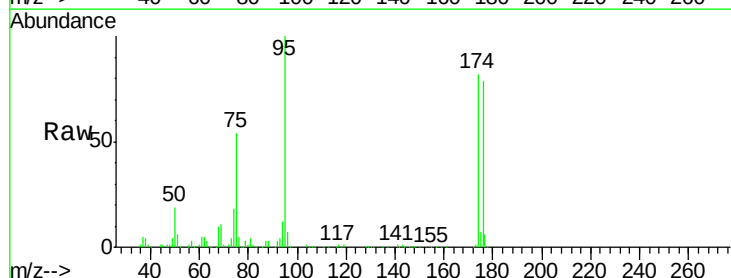
Tgt Ion: 95 Resp: 167069

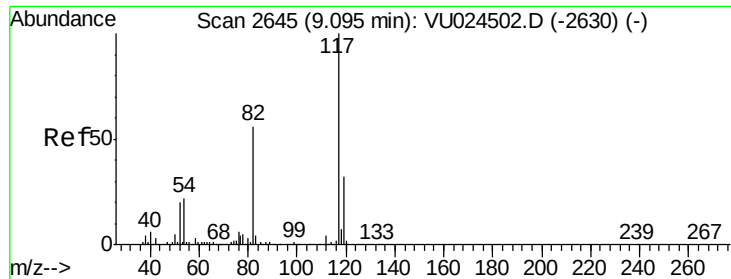
Ion Ratio Lower Upper

95 100

174 83.3 0.0 165.8

176 81.2 0.0 159.4

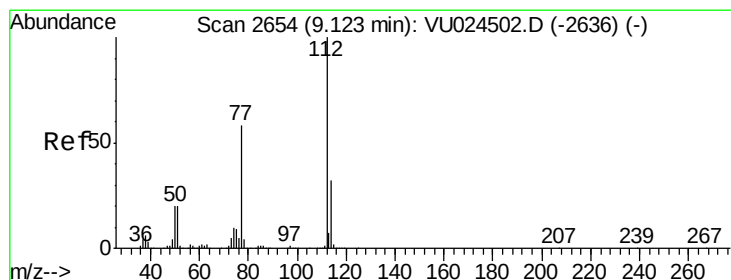
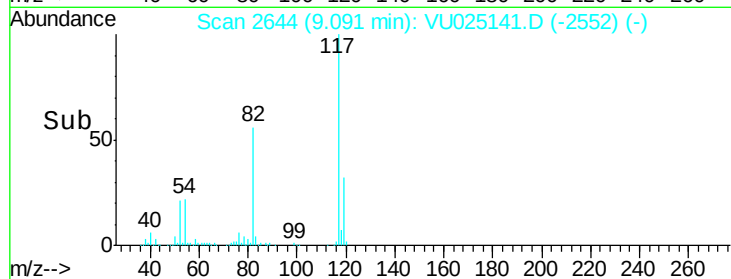
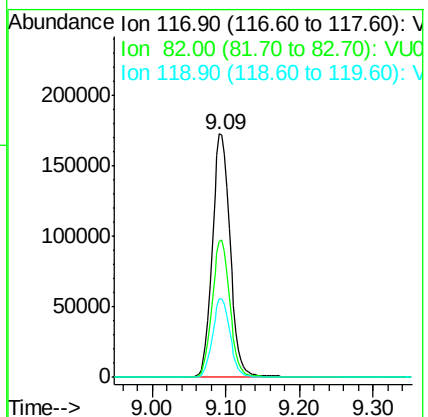
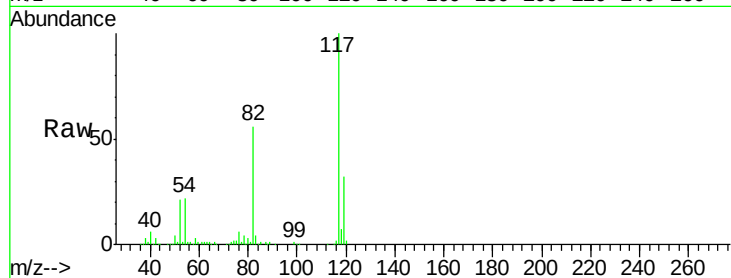




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2644
Delta R.T. -0.00 min
Lab File: VU025141.D
Acq: 02 Jul 2018 14:22

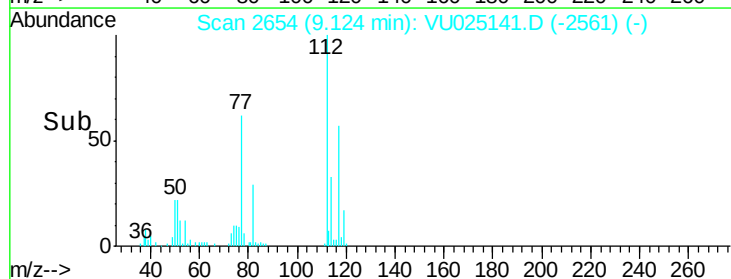
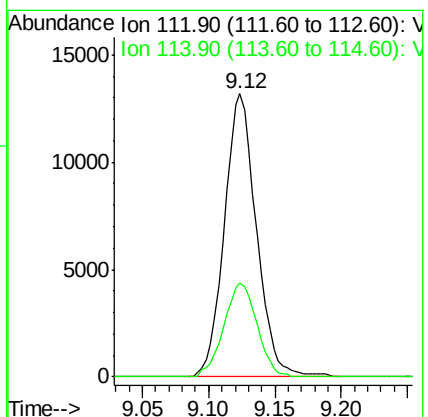
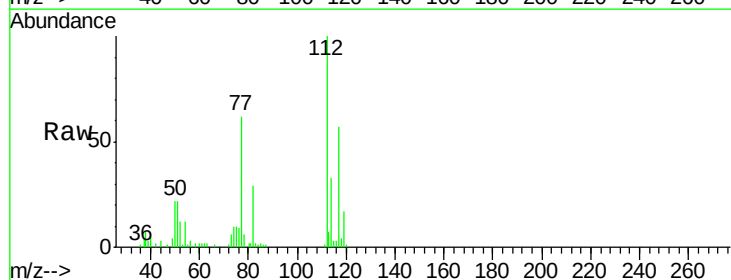
Instrument :
MSVOA_U
ClientSampleId :
WP021MW120-180626DL

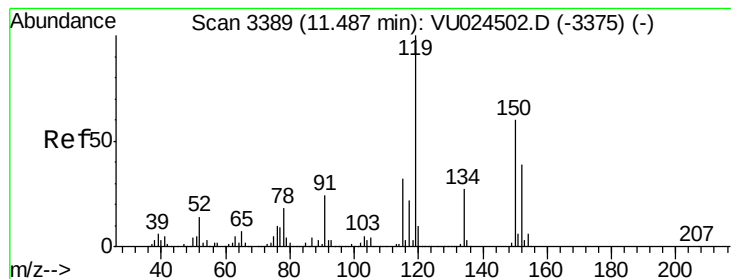
Tot Ion	Ratio	Lower	Upper
117	100		
82	56.1	44.3	66.5
119	32.3	25.4	38.2



#65
Chlorobenzene
Concen: 2.984 ug/l
RT: 9.12 min Scan# 2654
Delta R.T. 0.00 min
Lab File: VU025141.D
Acq: 02 Jul 2018 14:22

Tgt Ion	Ratio	Lower	Upper
112	100		
114	33.1	25.6	38.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.49 min Scan# 3389

Delta R.T. 0.00 min

Lab File: VU025141.D

Acq: 02 Jul 2018 14:22

Instrument :

MSVOA_U

ClientSampleId :

WP021MW120-180626DL

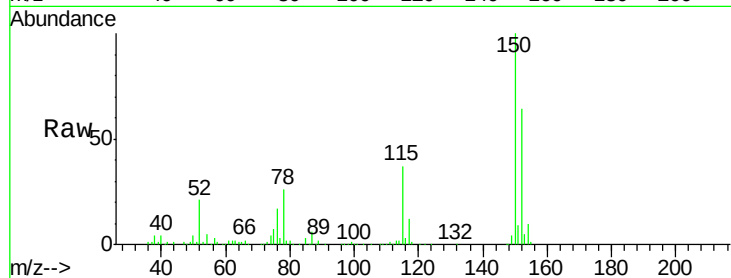
Tot Ion:152 Resp: 149668

Ion Ratio Lower Upper

152 100

115 58.3 43.0 129.0

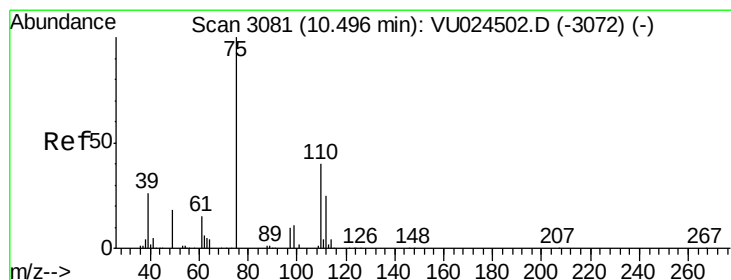
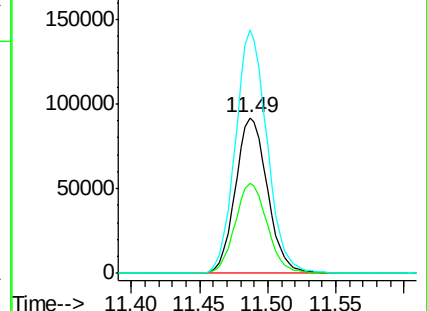
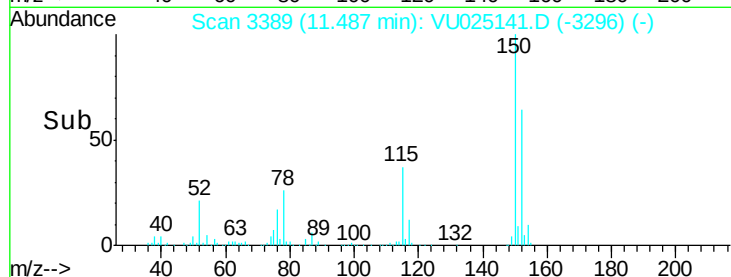
150 154.5 0.0 354.0



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 26.895 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU025141.D

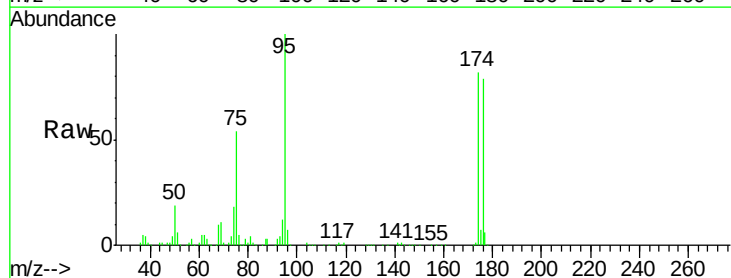
Acq: 02 Jul 2018 14:22

Tgt Ion: 75 Resp: 88624

Ion Ratio Lower Upper

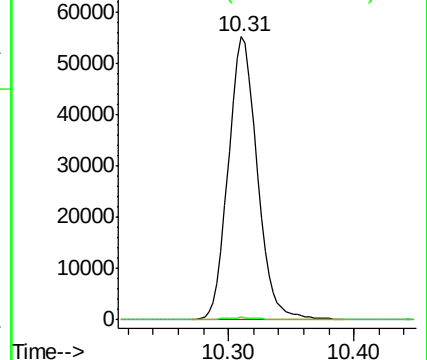
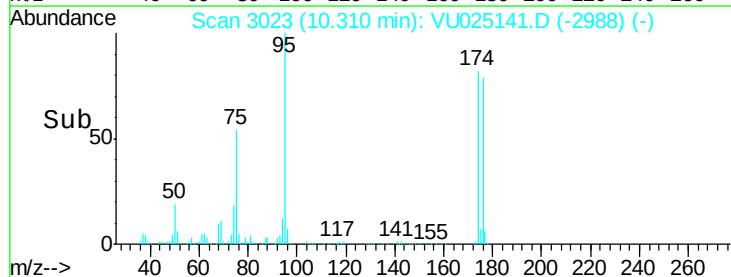
75 100

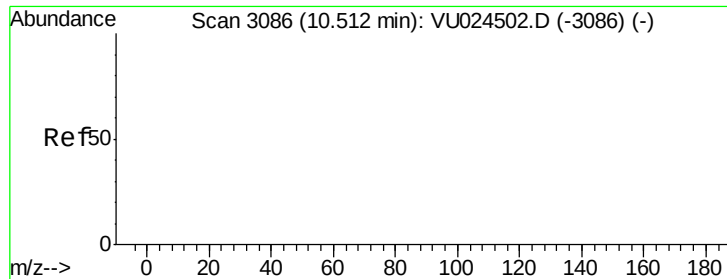
77 1.0 20.9 62.7#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0

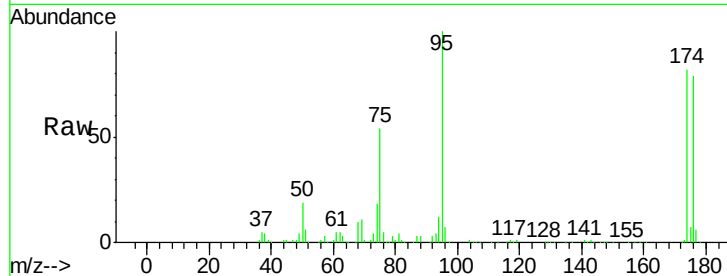




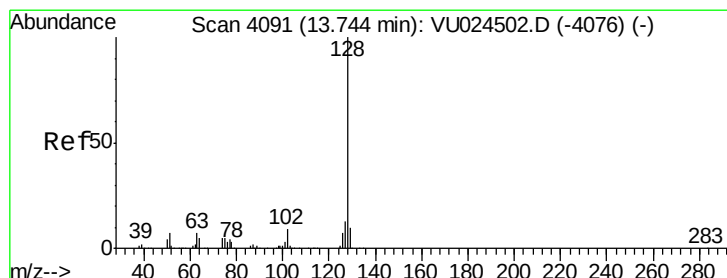
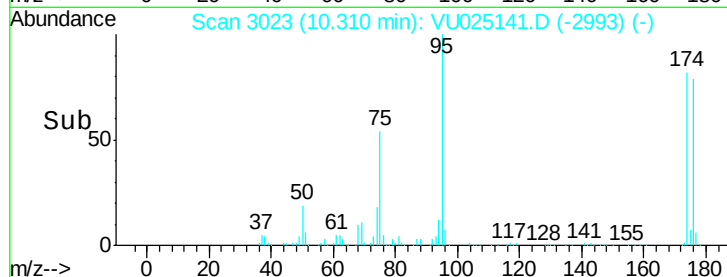
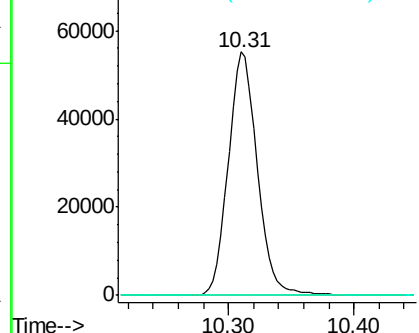
#81
 trans-1,4-Dichloro-2-butene
 Concen: 62.247 ug/l
 RT: 10.31 min Scan# 3023
 Delta R.T. -0.20 min
 Lab File: VU025141.D
 Acq: 02 Jul 2018 14:22

Instrument :
 MSVOA_U
 ClientSampleId :
 WP021MW120-180626DL

Tot Ion:	75	Resp:	88624
Ion	Ratio	Lower	Upper
75	100		
53	0.0	0.0	0.0
89	0.0	0.0	0.0

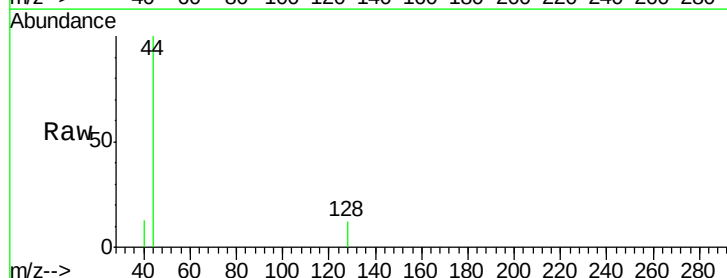


Abundance Ion 74.90 (74.60 to 75.60): VU025141.D (-2993) (-)
 Ion 53.00 (52.70 to 53.70): VU025141.D (-2993) (-)
 Ion 88.90 (88.60 to 89.60): VU025141.D (-2993) (-)



#95
 Naphthalene
 Concen: 0.693 ug/l
 RT: 13.78 min Scan# 4103
 Delta R.T. 0.04 min
 Lab File: VU025141.D
 Acq: 02 Jul 2018 14:22

Tgt Ion:	128	Resp:	149
Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.6	16.0#
129	0.0	8.6	12.8#



Abundance Ion 128.00 (127.70 to 128.70): VU025141.D (-3997) (-)
 Ion 127.00 (126.70 to 127.70): VU025141.D (-3997) (-)
 Ion 129.00 (128.70 to 129.70): VU025141.D (-3997) (-)

