

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU070518\
 Data File : VU025206.D
 Acq On : 05 Jul 2018 11:21
 Operator : MD/SY
 Sample : J3783-01DL 10X
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jul 06 05:10:21 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	213239	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	318210	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	292442	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	152673	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	160010	45.96	ug/l	0.00
Spiked Amount			Recovery	=	91.92%	
35) Dibromofluoromethane	4.89	113	124865	47.28	ug/l	0.00
Spiked Amount			Recovery	=	94.56%	
50) Toluene-d8	7.57	98	456795	47.42	ug/l	0.00
Spiked Amount			Recovery	=	94.84%	
62) 4-Bromofluorobenzene	10.31	95	170213	44.50	ug/l	0.00
Spiked Amount			Recovery	=	89.00%	

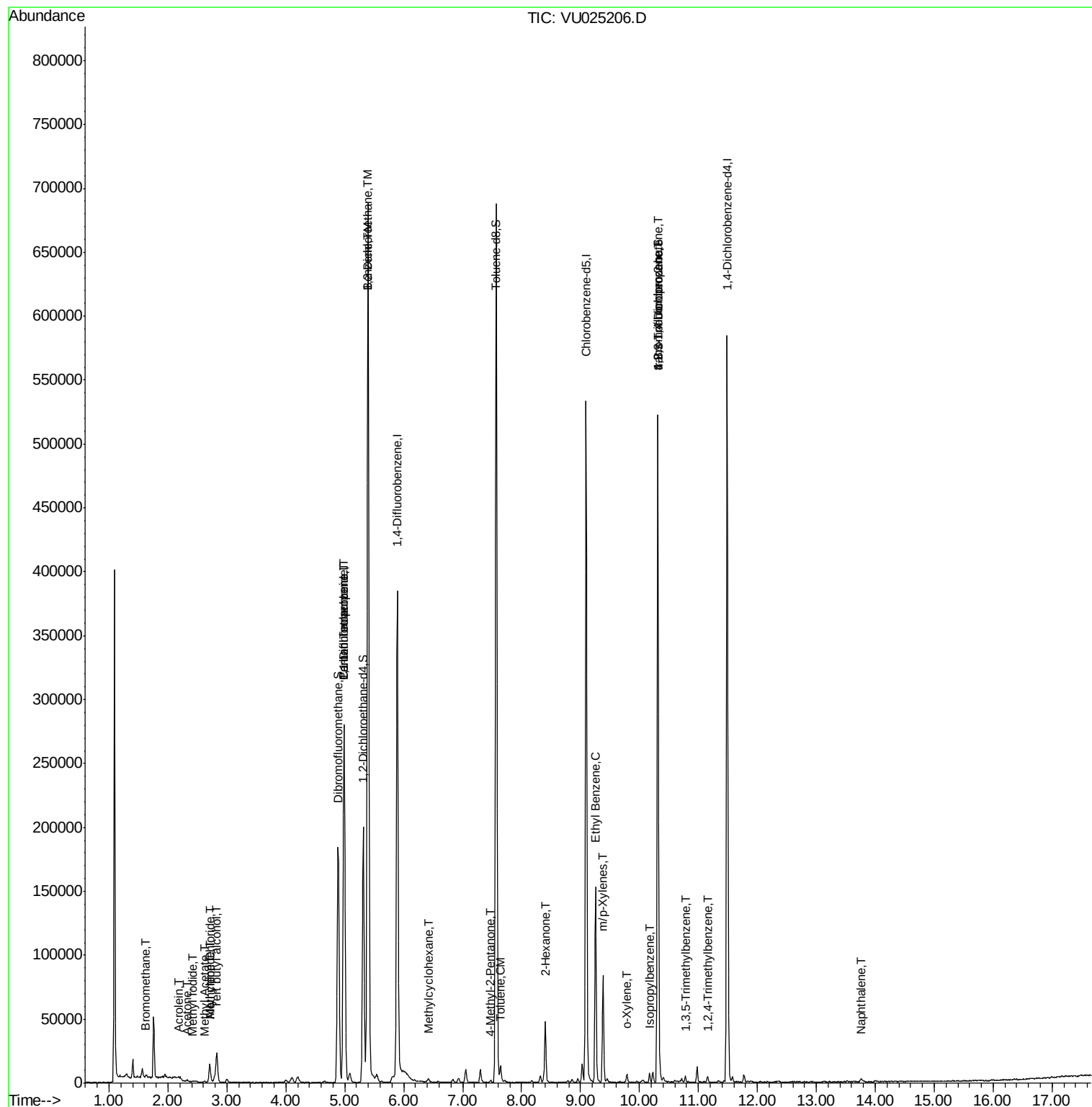
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.63	94	346	0.25	ug/l	88
6) Chloroethane	1.70	64	19	Below Cal	#	43
10) Methyl Iodide	2.42	142	436	5.46	ug/l	# 65
11) Tert butyl alcohol	2.82	59	26847	31.71	ug/l	100
13) Acrolein	2.18	56	180	0.40	ug/l	# 40
14) Allyl chloride	2.71	41	4237	0.94	ug/l	# 54
16) Acetone	2.33	43	2076	1.11	ug/l	# 89
18) Methyl Acetate	2.63	43	1307	0.33	ug/l	# 72
20) Methylene Chloride	2.71	84	1310	0.45	ug/l	# 72
31) Cyclohexane	4.99	56	8203	Below Cal	#	33
36) 1,1-Dichloropropene	4.99	75	15155	4.05	ug/l	# 52
38) Carbon Tetrachloride	4.99	117	20491	4.98	ug/l	# 15
39) Methylcyclohexane	6.42	83	1194	0.26	ug/l	95
40) Benzene	5.39	78	672593	63.13	ug/l	99
42) 1,2-Dichloroethane	5.39	62	5964	1.47	ug/l	# 77
51) 4-Methyl-2-Pentanone	7.47	43	1614	0.36	ug/l	# 74
52) Toluene	7.64	92	4577	0.67	ug/l	95
59) 2-Hexanone	8.40	43	3168	0.88	ug/l	84
67) Ethyl Benzene	9.26	91	109847	8.39	ug/l	98
68) m/p-Xylenes	9.38	106	23122	4.60	ug/l	98
69) o-Xylene	9.79	106	1898	0.38	ug/l	98
73) Isopropylbenzene	10.17	105	4723	0.40	ug/l	92
76) 1,2,3-Trichloropropane	10.31	75	88552	26.34	ug/l	# 35
80) 1,3,5-Trimethylbenzene	10.78	105	2810	0.28	ug/l	91
81) trans-1,4-Dichloro-2-buten	10.31	75	88552	60.97	ug/l	# 100
84) 1,2,4-Trimethylbenzene	11.15	105	2838	0.27	ug/l	89
95) Naphthalene	13.76	128	3671	1.00	ug/l	# 92

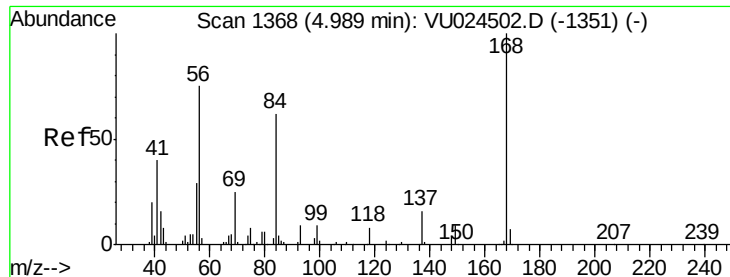
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\82U061318W.M
Quant Title : SW846 8260
QLast Update : Wed Jun 13 13:55:26 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.00 min

Lab File: VU025206.D

Acq: 05 Jul 2018 11:21

Instrument :

MSVOA_U

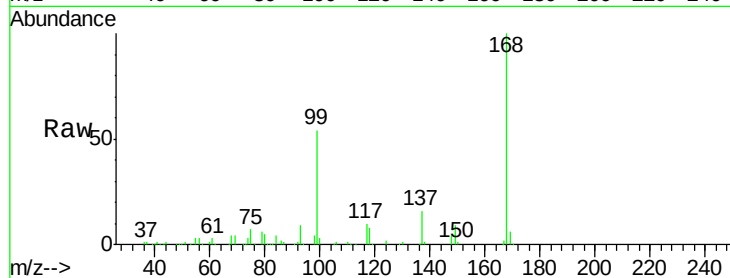
ClientSampleId :

Tot Ion:168 Resp: 213239

Ion Ratio Lower Upper

168 100

99 54.3 43.2 64.8



Abundance Ion 167.90 (167.60 to 168.60): VU024502.D (-1351) (-)

Ion 98.90 (98.60 to 99.60): VU024502.D (-1351) (-)

4.99

100000

80000

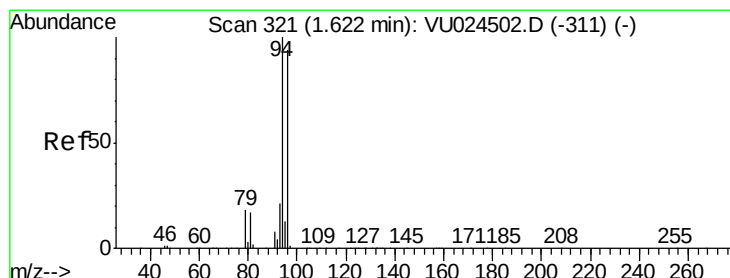
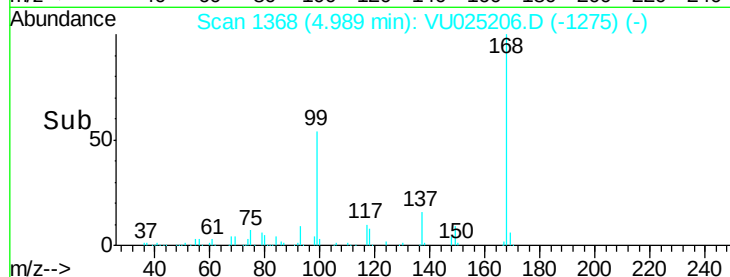
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: 0.25 ug/l

RT: 1.63 min Scan# 323

Delta R.T. 0.01 min

Lab File: VU025206.D

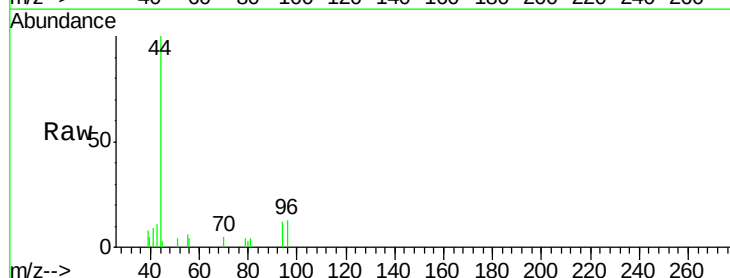
Acq: 05 Jul 2018 11:21

Tgt Ion: 94 Resp: 346

Ion Ratio Lower Upper

94 100

96 104.3 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VU024502.D (-311) (-)

Ion 95.90 (95.60 to 96.60): VU024502.D (-311) (-)

1.63

500

400

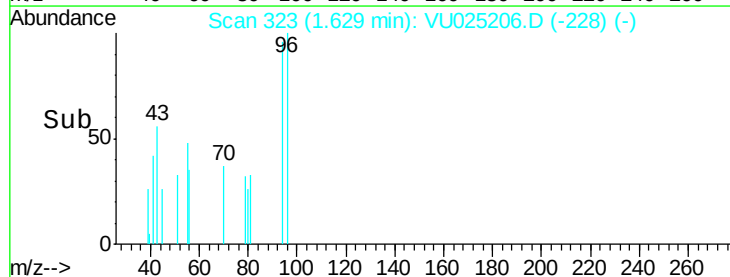
300

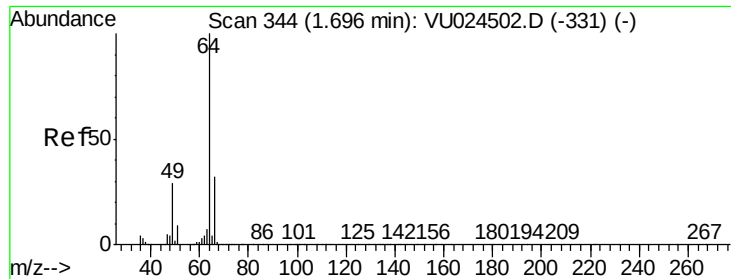
200

100

0

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.70 min Scan# 345

Delta R.T. 0.00 min

Lab File: VU025206.D

Acq: 05 Jul 2018 11:21

Instrument :

MSVOA_U

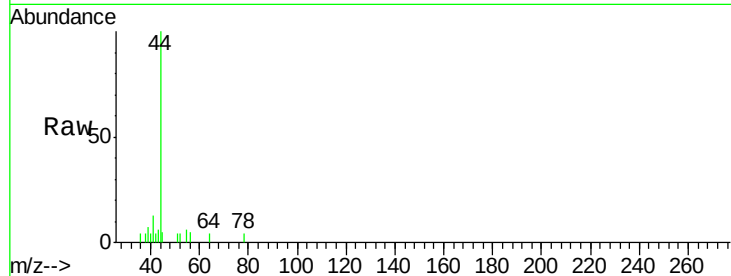
ClientSampleId :

Tot Ion: 64 Resp: 19

Ion Ratio Lower Upper

64 100

66 0.0 25.5 38.3#

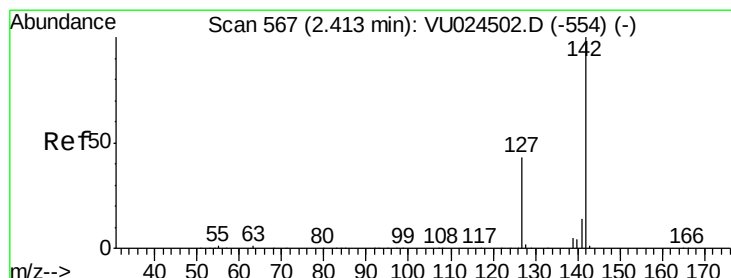
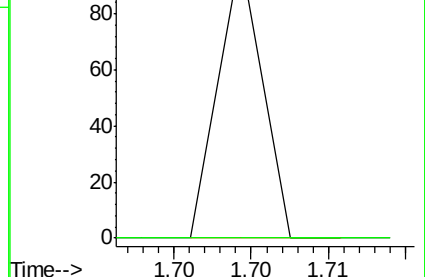
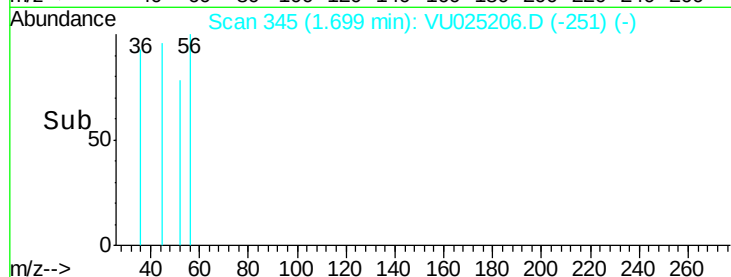


Abundance Ion 63.90 (63.60 to 64.60): VU025206.D (-251) (-)

Ion 65.90 (65.60 to 66.60): VU025206.D (-251) (-)

1.70

1.71



#10

Methyl Iodide

Concen: 5.46 ug/l

RT: 2.42 min Scan# 568

Delta R.T. 0.00 min

Lab File: VU025206.D

Acq: 05 Jul 2018 11:21

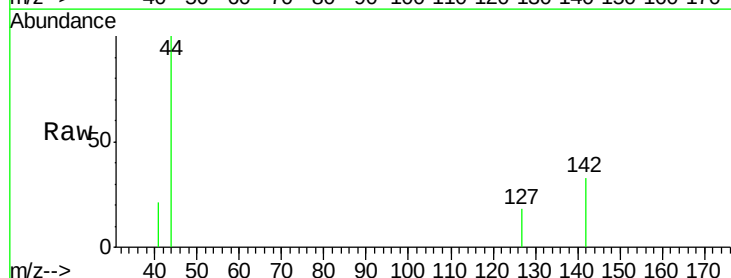
Tgt Ion: 142 Resp: 436

Ion Ratio Lower Upper

142 100

127 21.6 35.6 53.4#

141 0.0 11.7 17.5#



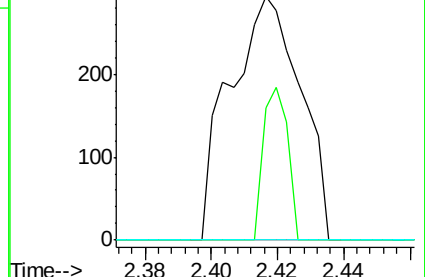
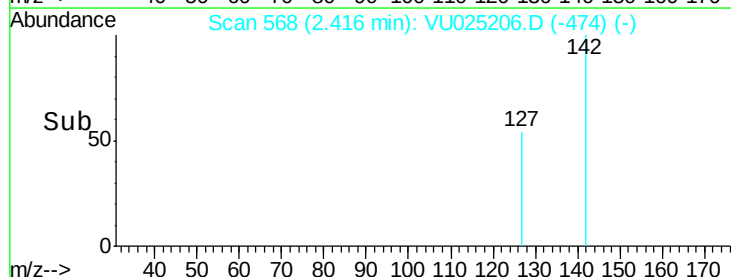
Abundance Ion 141.80 (141.50 to 142.50): VU025206.D (-474) (-)

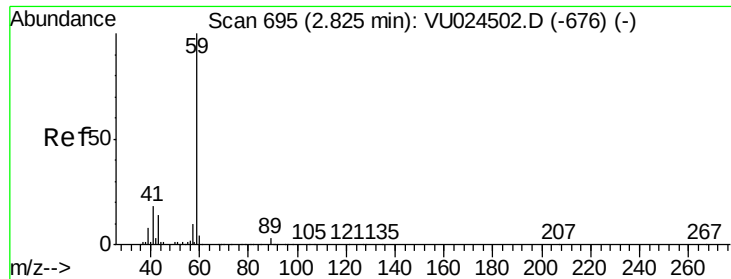
Ion 126.80 (126.50 to 127.50): VU025206.D (-474) (-)

Ion 140.80 (140.50 to 141.50): VU025206.D (-474) (-)

2.42

2.44



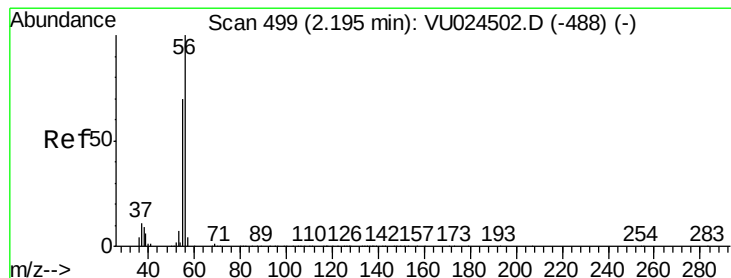
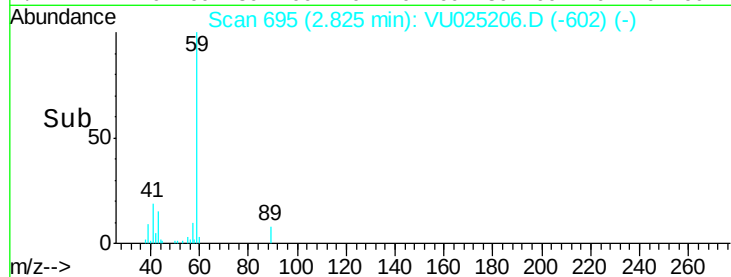
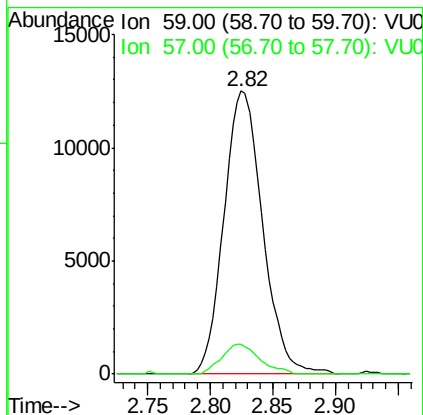
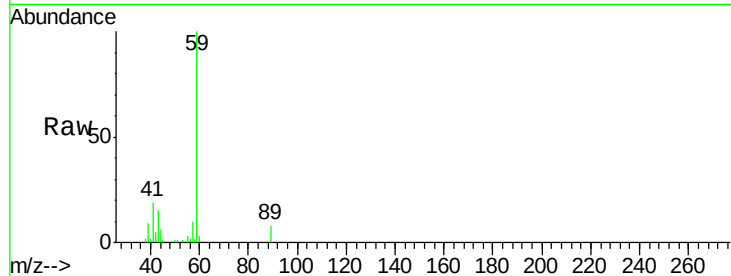


#11

Tert butyl alcohol
 Concen: 31.71 ug/l
 RT: 2.82 min Scan# 695
 Delta R.T. -0.00 min
 Lab File: VU025206.D
 Acq: 05 Jul 2018 11:21

Instrument :
 MSVOA_U
 ClientSampleId :

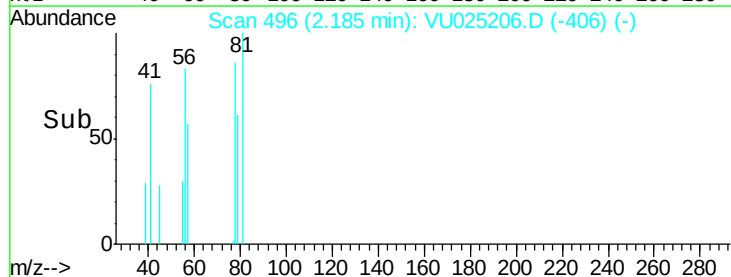
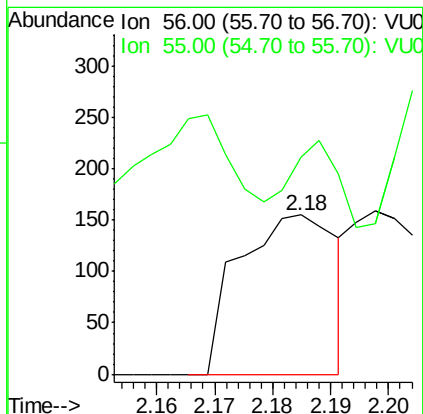
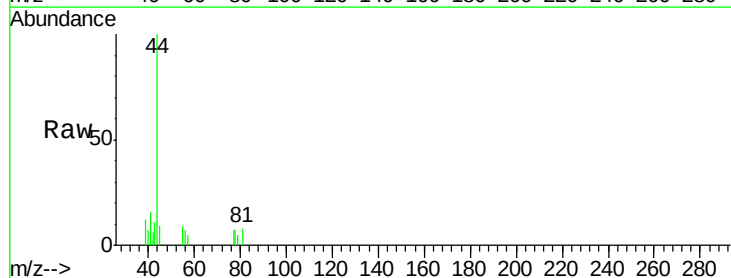
Tot Ion: 59 Resp: 26847
 Ion Ratio Lower Upper
 59 100
 57 10.4 8.5 12.7

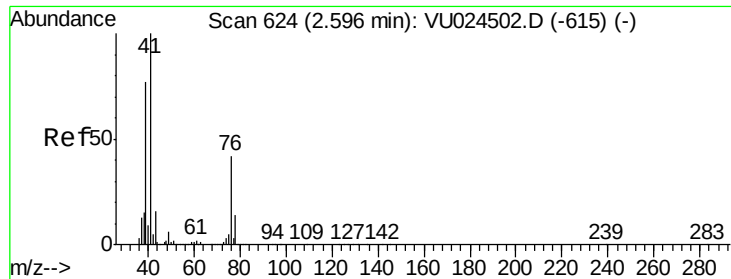


#13

Acrolein
 Concen: 0.40 ug/l
 RT: 2.18 min Scan# 496
 Delta R.T. -0.01 min
 Lab File: VU025206.D
 Acq: 05 Jul 2018 11:21

Tgt Ion: 56 Resp: 180
 Ion Ratio Lower Upper
 56 100
 55 22.2 58.4 87.6#

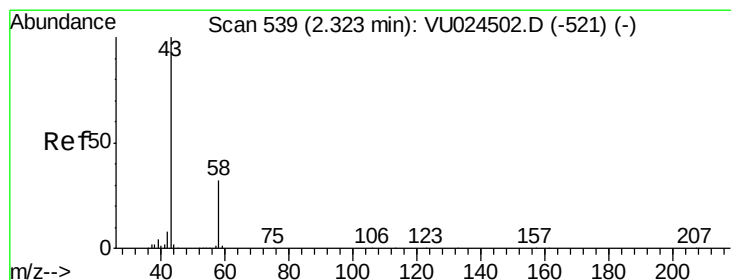
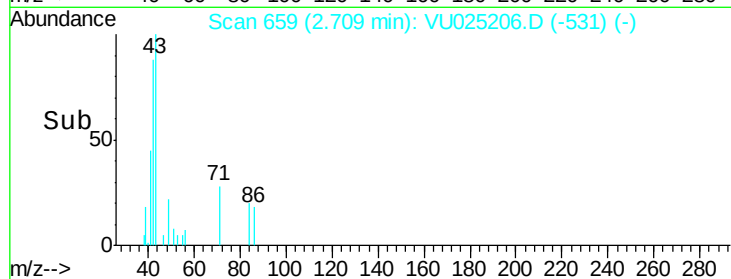
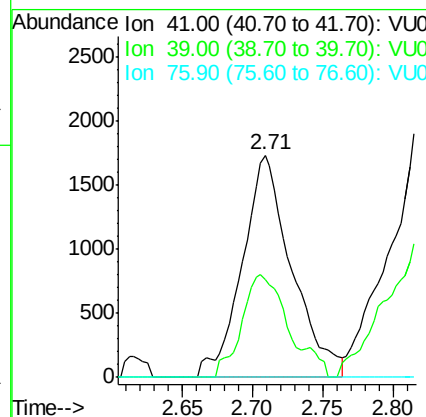
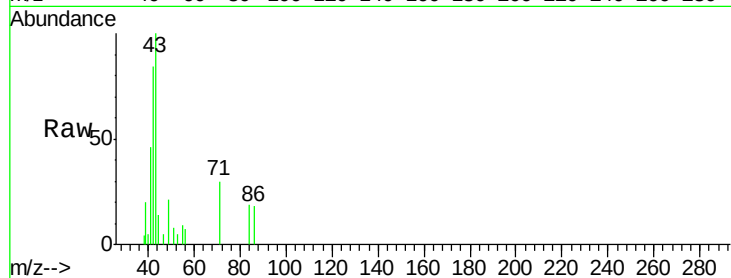




#14
Allvl chloride
Concen: 0.94 ug/l
RT: 2.71 min Scan# 659
Delta R.T. 0.11 min
Lab File: VU025206.D
Acq: 05 Jul 2018 11:21

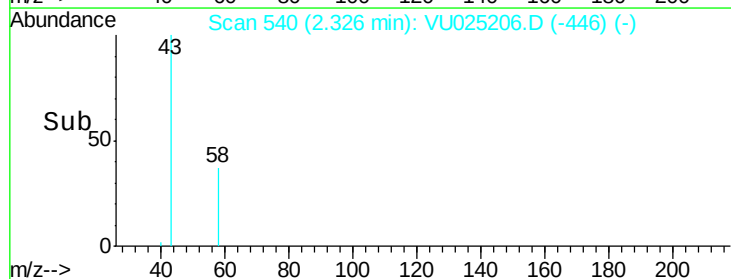
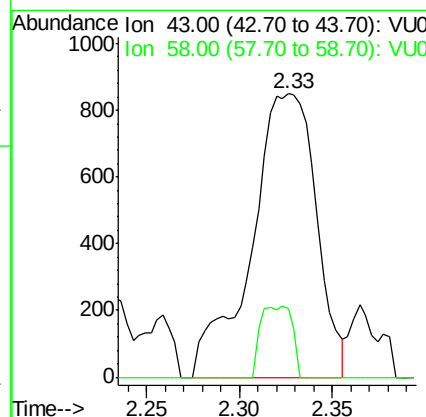
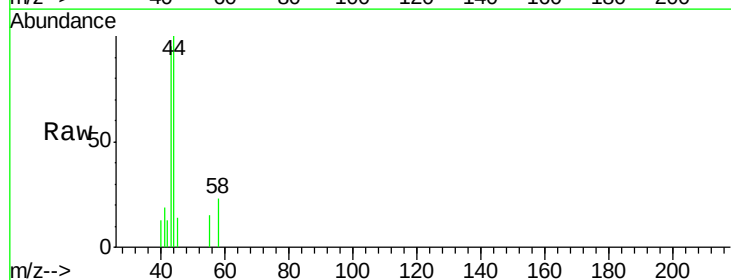
Instrument :
MSVOA_U
ClientSampled :

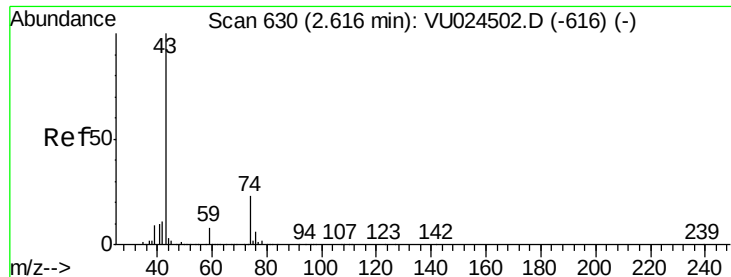
Tot Ion: 41 Resp: 4237
Ion Ratio Lower Upper
41 100
39 44.0 61.6 92.4#
76 0.0 29.7 44.5#



#16
Acetone
Concen: 1.11 ug/l
RT: 2.33 min Scan# 540
Delta R.T. 0.00 min
Lab File: VU025206.D
Acq: 05 Jul 2018 11:21

Tgt Ion: 43 Resp: 2076
Ion Ratio Lower Upper
43 100
58 24.4 24.4 36.6#

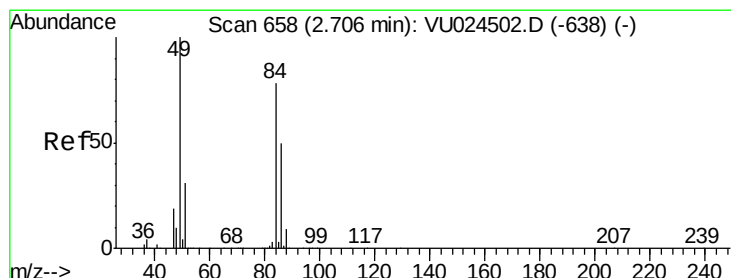
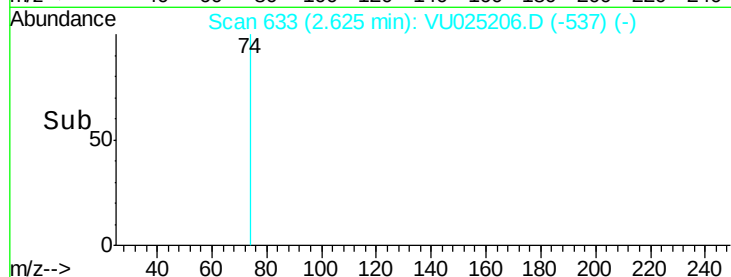
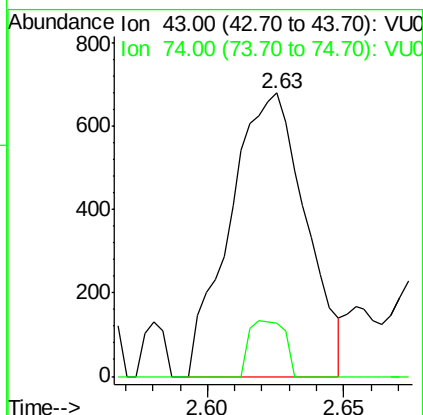
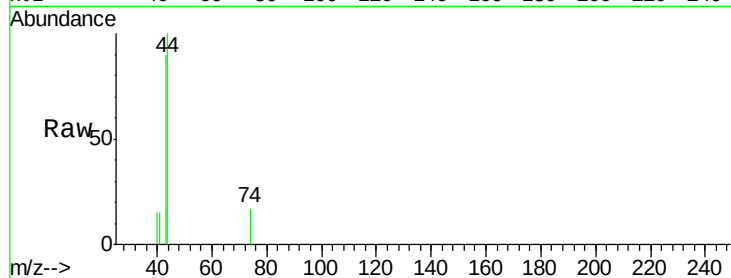




#18
Methyl Acetate
Concen: 0.33 ug/l
RT: 2.63 min Scan# 633
Delta R.T. 0.01 min
Lab File: VU025206.D
Acq: 05 Jul 2018 11:21

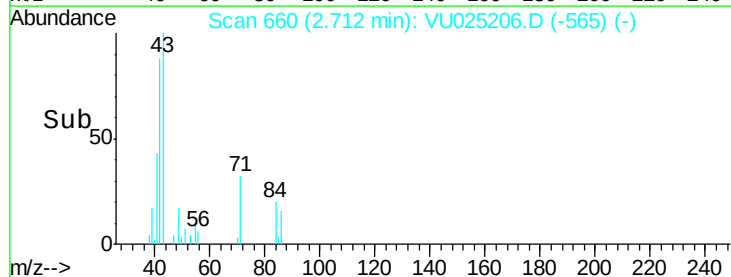
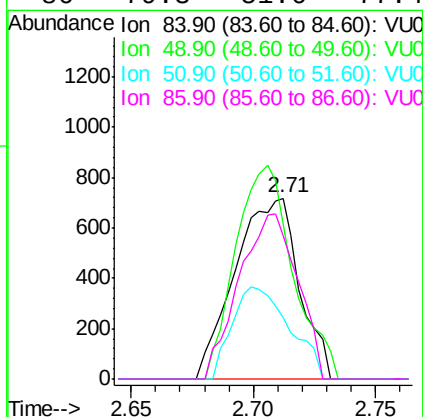
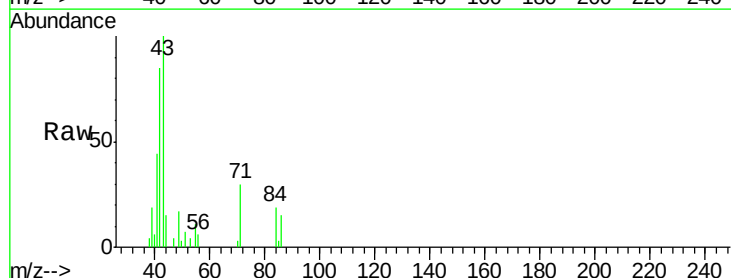
Instrument :
MSVOA_U
ClientSampleId :

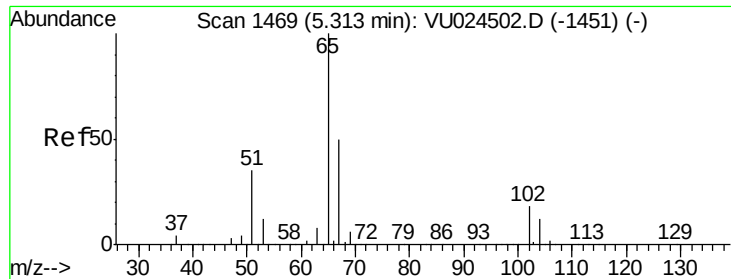
Tot Ion: 43 Resp: 1307
Ion Ratio Lower Upper
43 100
74 9.1 18.0 27.0#



#20
Methylene Chloride
Concen: 0.45 ug/l
RT: 2.71 min Scan# 660
Delta R.T. 0.01 min
Lab File: VU025206.D
Acq: 05 Jul 2018 11:21

Tgt Ion: 84 Resp: 1310
Ion Ratio Lower Upper
84 100
49 85.3 103.8 155.8#
51 33.7 32.0 48.0
86 79.3 51.6 77.4#

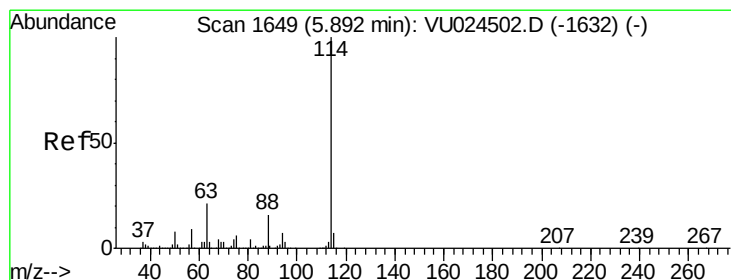
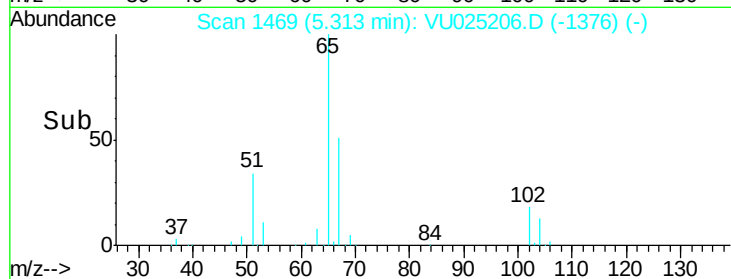
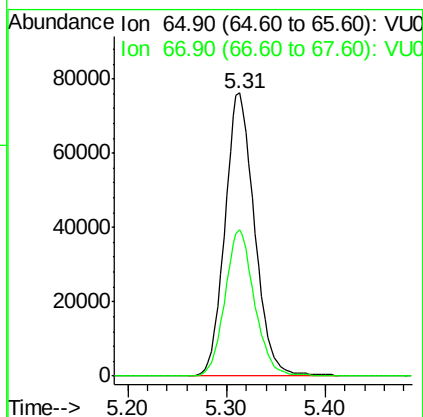
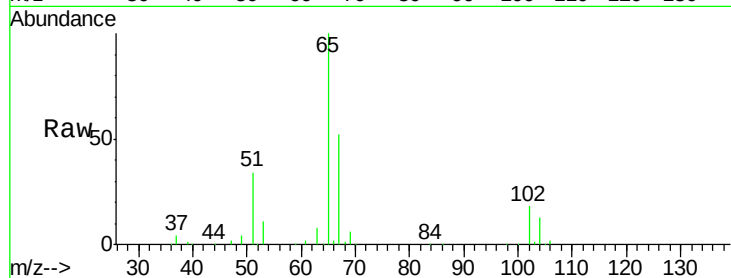




#33
 1,2-Dichloroethane-d4
 Concen: 45.96 ug/l
 RT: 5.31 min Scan# 1469
 Delta R.T. -0.00 min
 Lab File: VU025206.D
 Acq: 05 Jul 2018 11:21

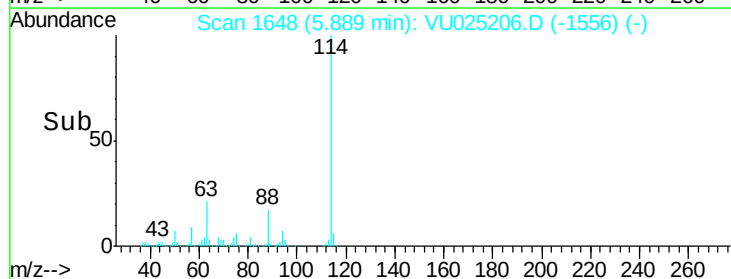
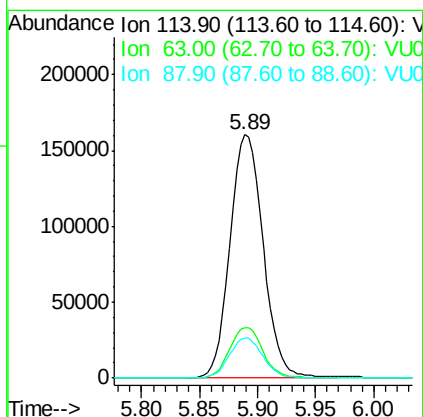
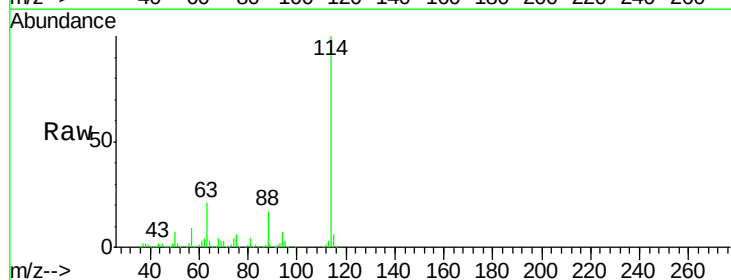
Instrument :
 MSVOA_U
 ClientSampleId :

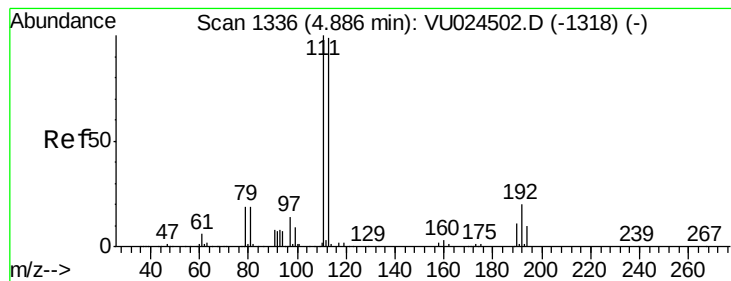
Tot Ion: 65 Resp: 160010
 Ion Ratio Lower Upper
 65 100
 67 51.3 0.0 107.0



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 5.89 min Scan# 1648
 Delta R.T. -0.00 min
 Lab File: VU025206.D
 Acq: 05 Jul 2018 11:21

Tgt Ion: 114 Resp: 318210
 Ion Ratio Lower Upper
 114 100
 63 20.6 0.0 45.4
 88 16.6 0.0 31.0





#35

Dibromofluoromethane

Concen: 47.28 ug/l

RT: 4.89 min Scan# 1337

Delta R.T. 0.00 min

Lab File: VU025206.D

Acq: 05 Jul 2018 11:21

Instrument :
MSVOA_U
ClientSampleId :

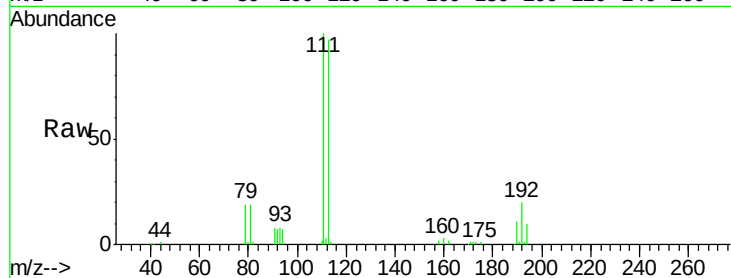
Tot Ion:113 Resp: 124865

Ion Ratio Lower Upper

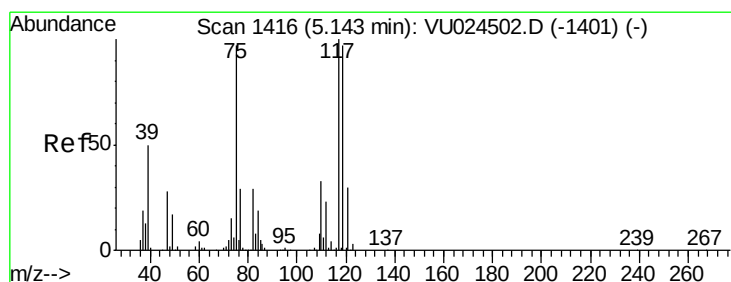
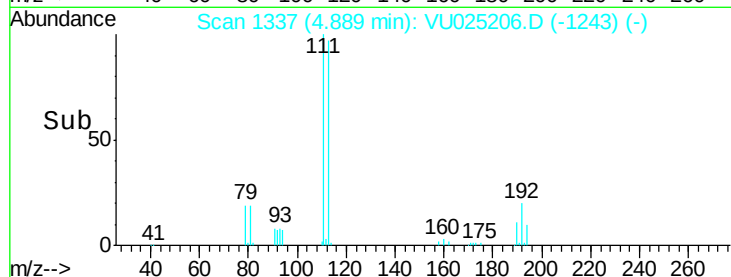
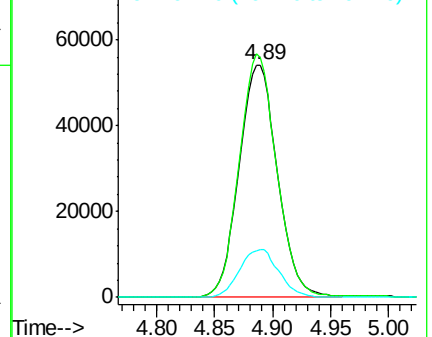
113 100

111 101.7 82.2 123.4

192 21.2 16.2 24.4



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: 4.05 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.15 min

Lab File: VU025206.D

Acq: 05 Jul 2018 11:21

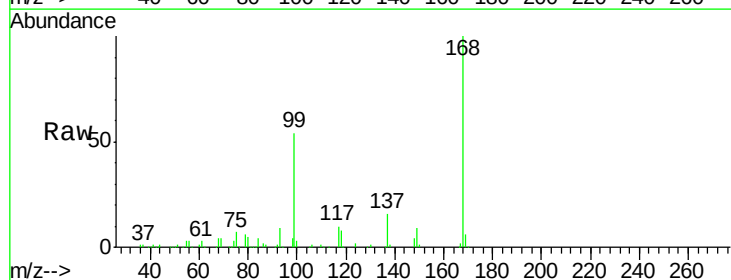
Tgt Ion: 75 Resp: 15155

Ion Ratio Lower Upper

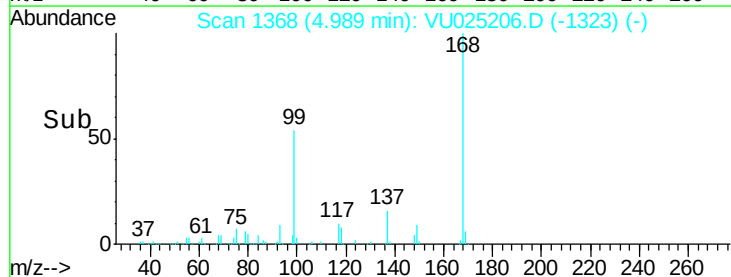
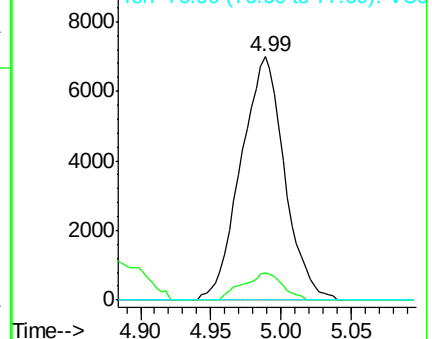
75 100

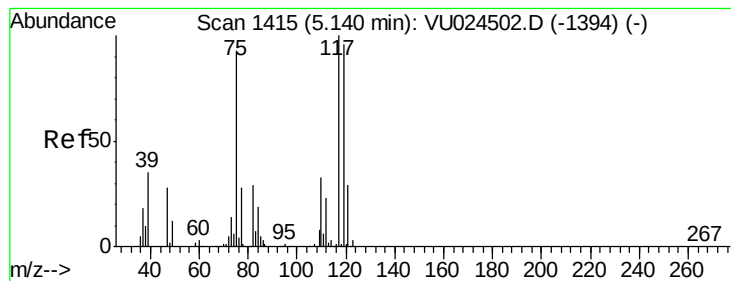
110 10.2 17.0 50.9#

77 0.0 24.2 36.4#



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: 4.98 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.15 min

Lab File: VU025206.D

Acq: 05 Jul 2018 11:21

Instrument :

MSVOA_U

ClientSampleId :

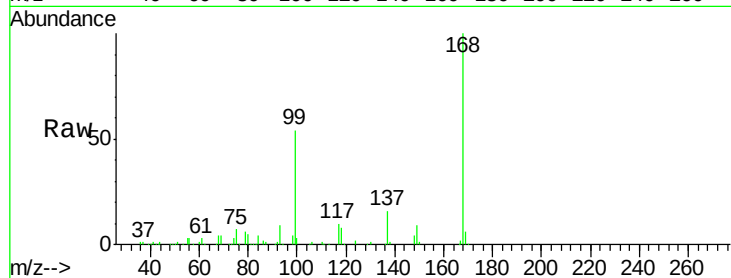
Tot Ion:117 Resp: 20491

Ion Ratio Lower Upper

117 100

119 3.9 76.1 114.1#

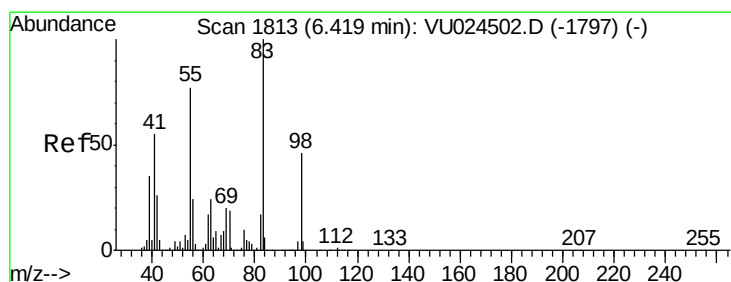
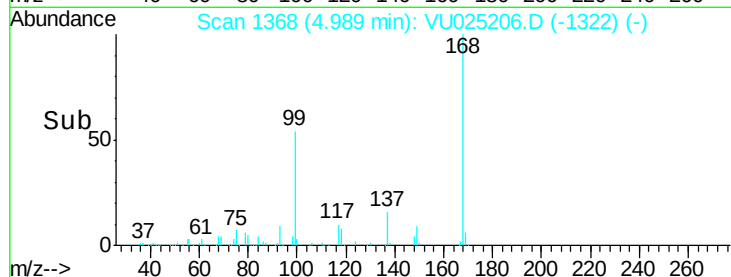
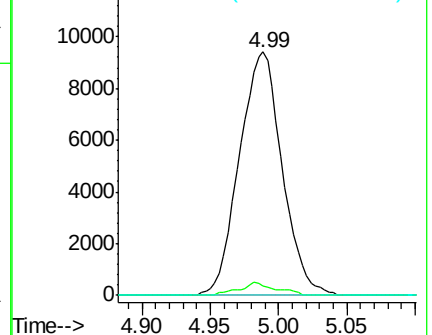
121 0.0 23.7 35.5#



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



#39

Methylcyclohexane

Concen: 0.26 ug/l

RT: 6.42 min Scan# 1813

Delta R.T. -0.00 min

Lab File: VU025206.D

Acq: 05 Jul 2018 11:21

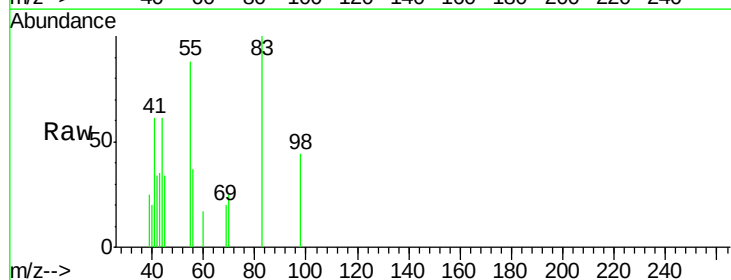
Tgt Ion: 83 Resp: 1194

Ion Ratio Lower Upper

83 100

55 87.8 65.8 98.6

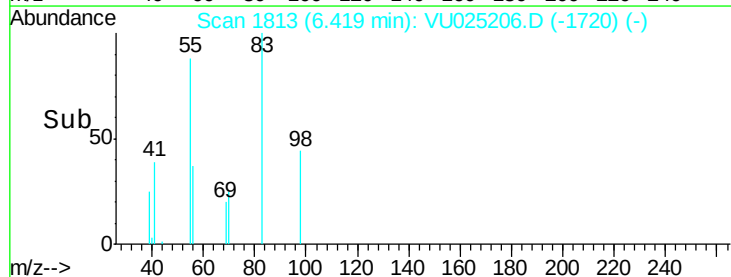
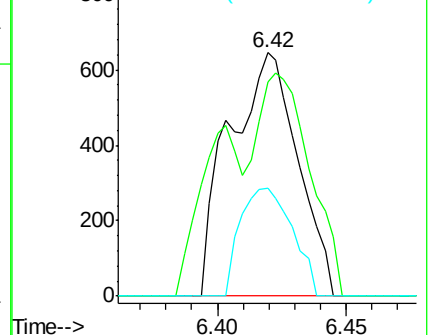
98 44.4 36.7 55.1

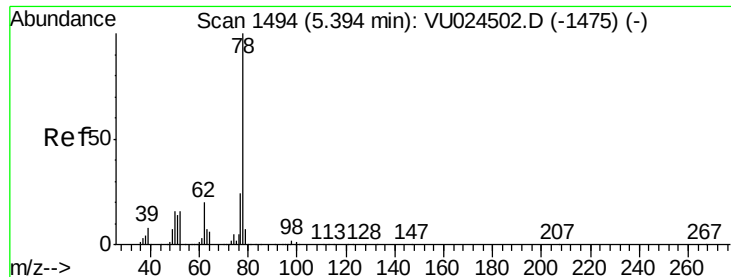


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





#40

Benzene

Concen: 63.13 ug/l

RT: 5.39 min Scan# 1494

Delta R.T. -0.00 min

Lab File: VU025206.D

Acq: 05 Jul 2018 11:21

Instrument :

MSVOA_U

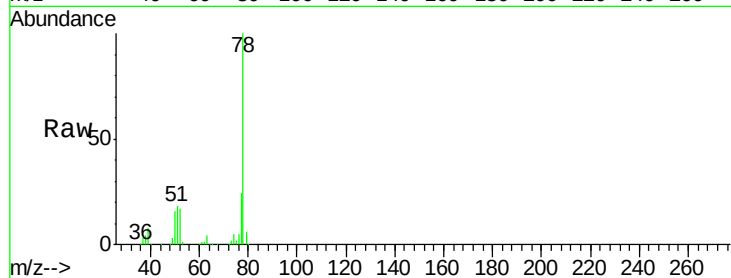
ClientSampleId :

Tot Ion: 78 Resp: 672593

Ion Ratio Lower Upper

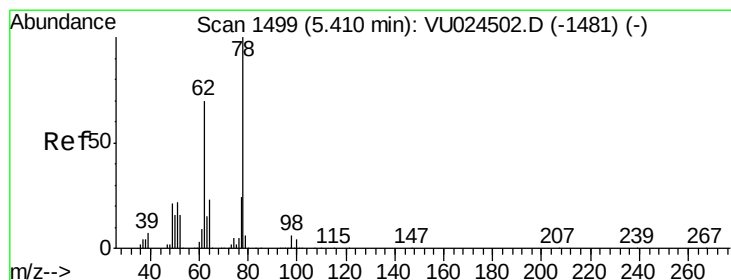
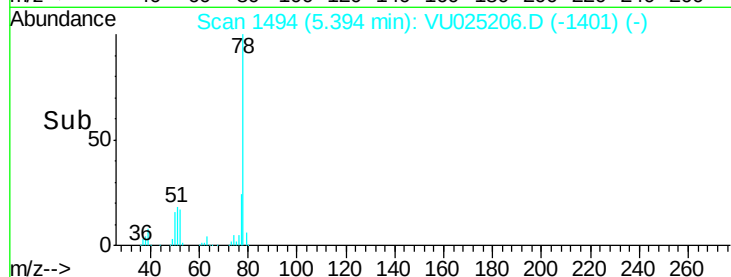
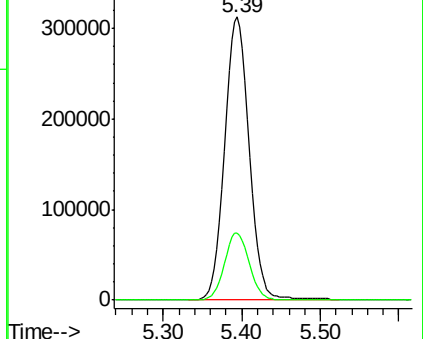
78 100

77 23.6 19.2 28.8



Abundance Ion 78.00 (77.70 to 78.70): VU0

Ion 77.00 (76.70 to 77.70): VU0



#42

1,2-Dichloroethane

Concen: 1.47 ug/l

RT: 5.39 min Scan# 1494

Delta R.T. -0.02 min

Lab File: VU025206.D

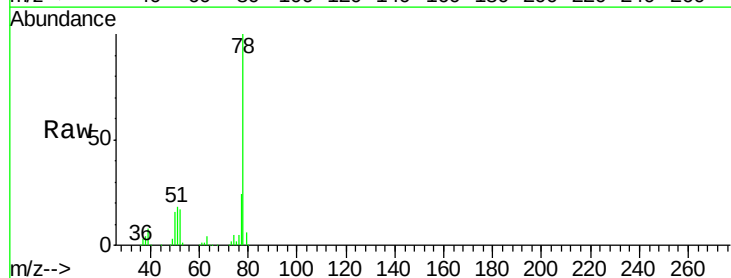
Acq: 05 Jul 2018 11:21

Tgt Ion: 62 Resp: 5964

Ion Ratio Lower Upper

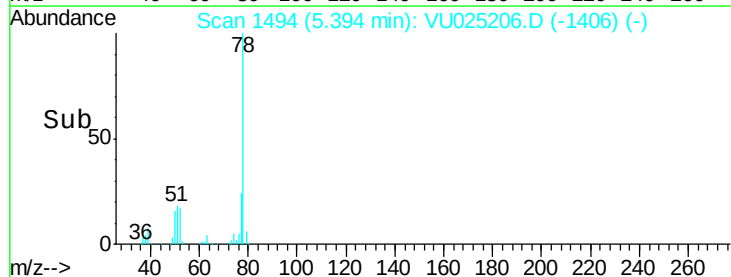
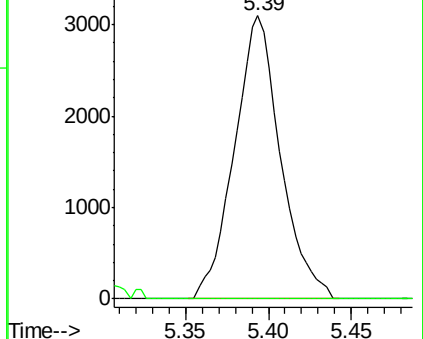
62 100

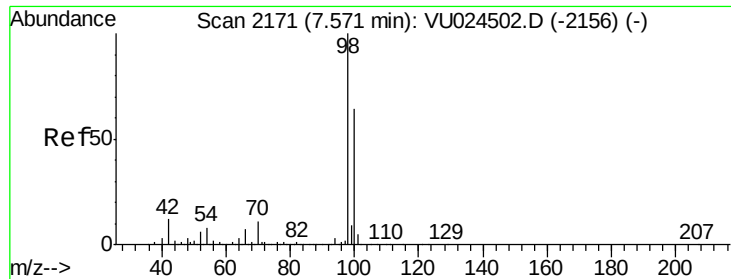
98 0.0 0.0 16.6



Abundance Ion 61.90 (61.60 to 62.60): VU0

Ion 97.90 (97.60 to 98.60): VU0

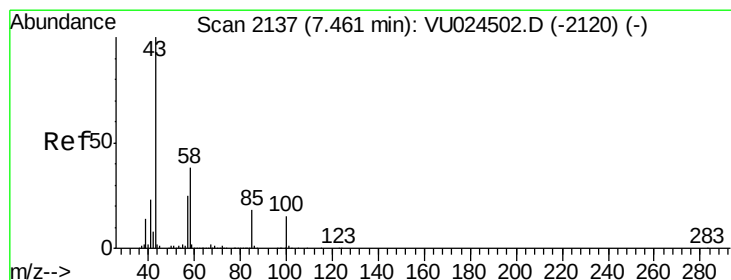
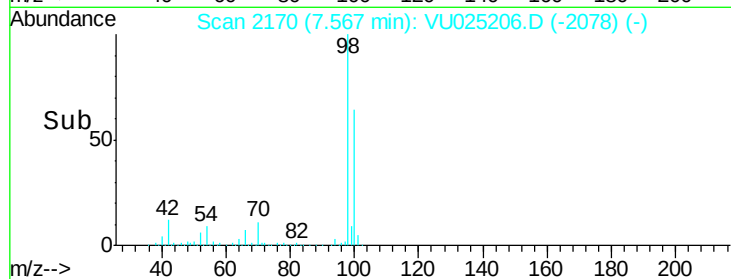
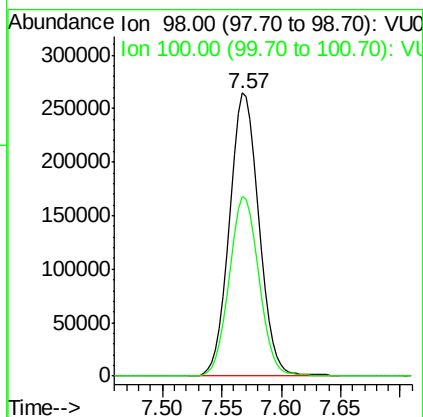
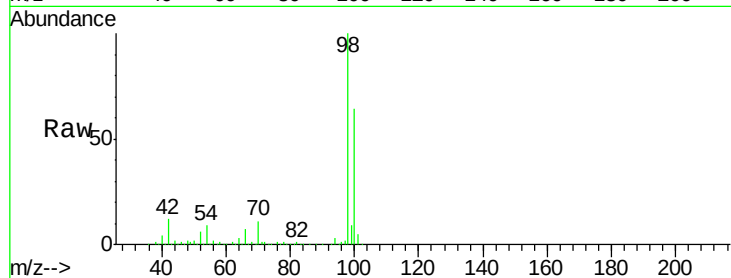




#50
Toluene-d8
Concen: 47.42 ug/l
RT: 7.57 min Scan# 2170
Delta R.T. -0.00 min
Lab File: VU025206.D
Acq: 05 Jul 2018 11:21

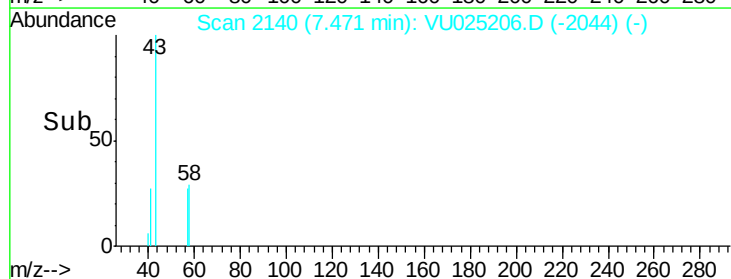
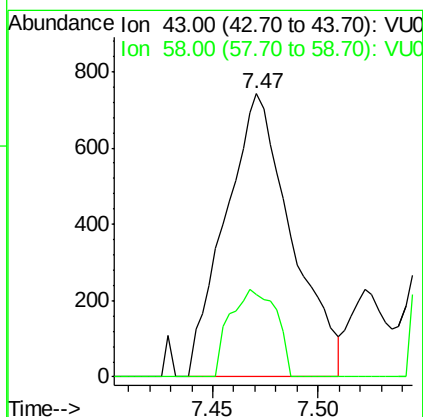
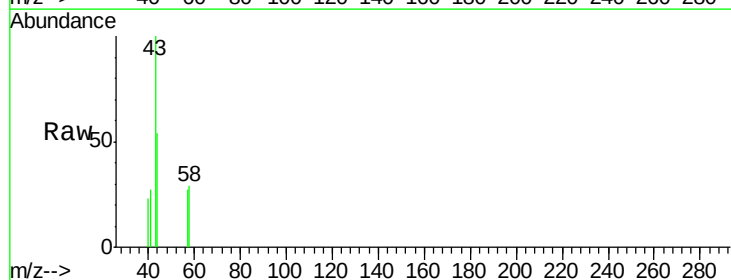
Instrument :
MSVOA_U
ClientSampled :

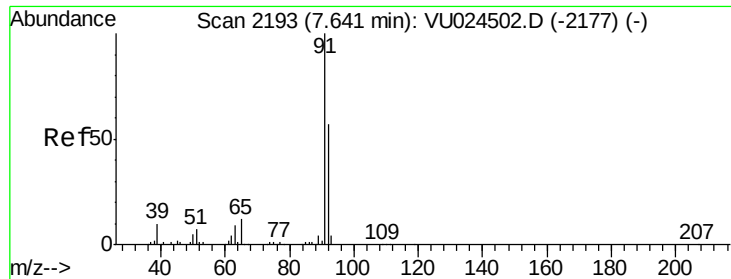
Tot Ion: 98 Resp: 456795
Ion Ratio Lower Upper
98 100
100 63.9 51.1 76.7



#51
4-Methyl-2-Pentanone
Concen: 0.36 ug/l
RT: 7.47 min Scan# 2140
Delta R.T. 0.01 min
Lab File: VU025206.D
Acq: 05 Jul 2018 11:21

Tgt Ion: 43 Resp: 1614
Ion Ratio Lower Upper
43 100
58 21.7 30.0 45.0#





#52

Toluene

Concen: 0.67 ug/l

RT: 7.64 min Scan# 2194

Delta R.T. 0.00 min

Lab File: VU025206.D

Acq: 05 Jul 2018 11:21

Instrument :

MSVOA_U

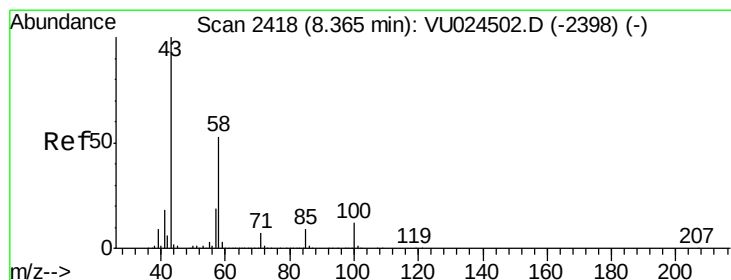
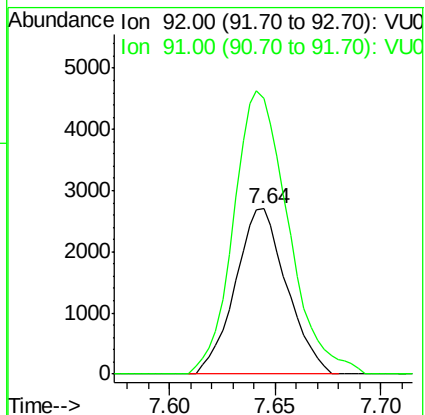
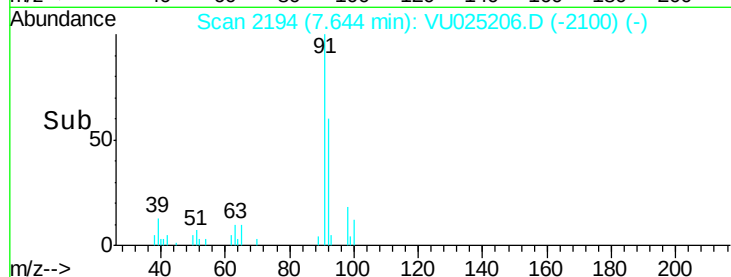
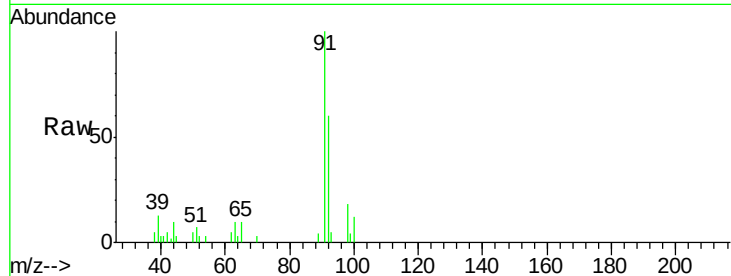
ClientSampled :

Tot Ion: 92 Resp: 4577

Ion Ratio Lower Upper

92 100

91 182.2 140.5 210.7



#59

2-Hexanone

Concen: 0.88 ug/l

RT: 8.40 min Scan# 2428

Delta R.T. 0.03 min

Lab File: VU025206.D

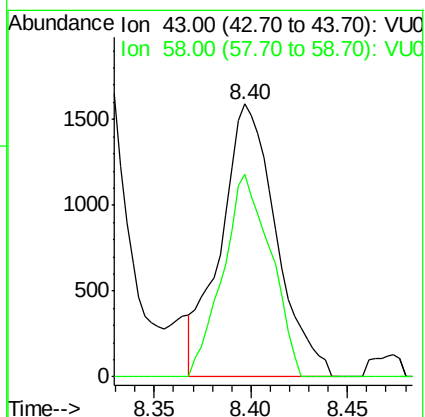
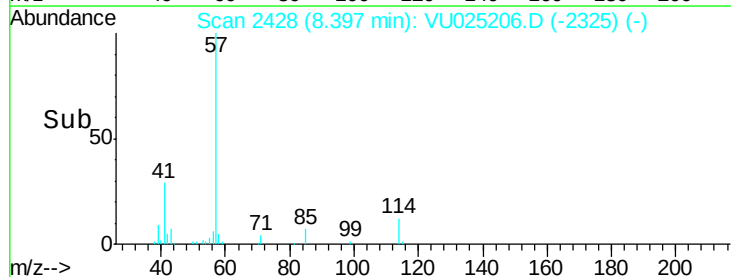
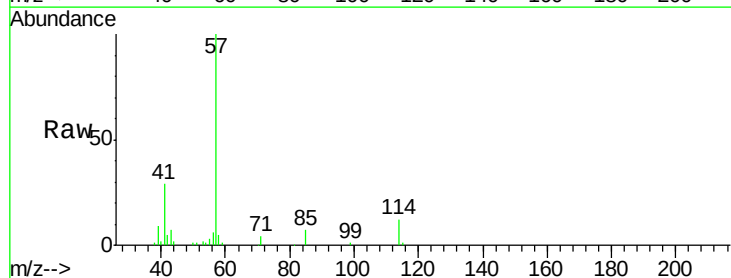
Acq: 05 Jul 2018 11:21

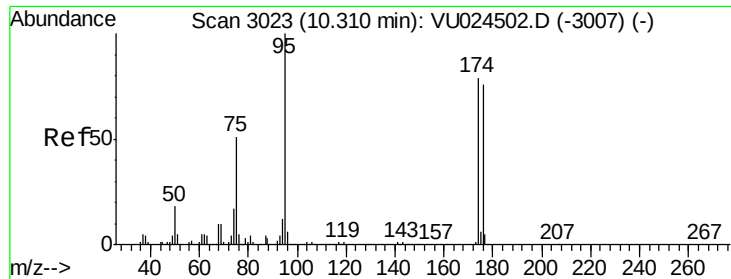
Tgt Ion: 43 Resp: 3168

Ion Ratio Lower Upper

43 100

58 63.9 26.4 79.0

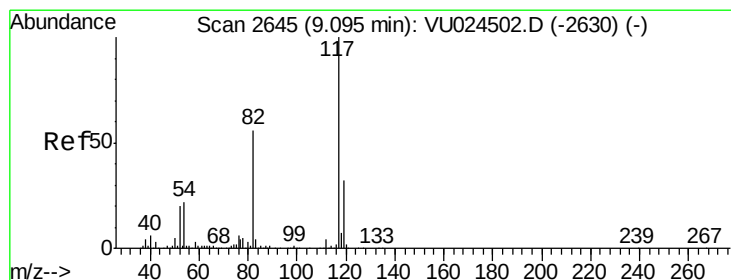
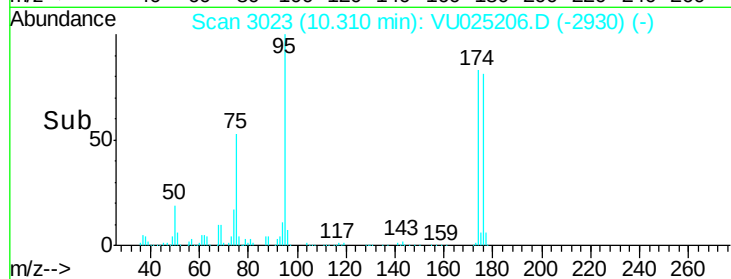
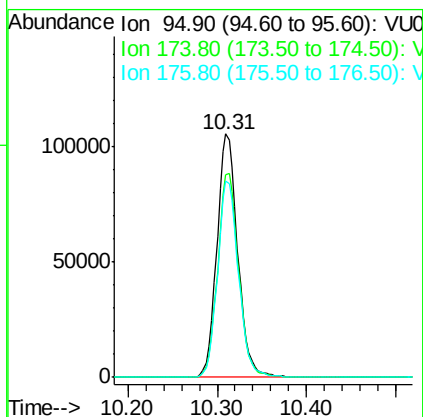
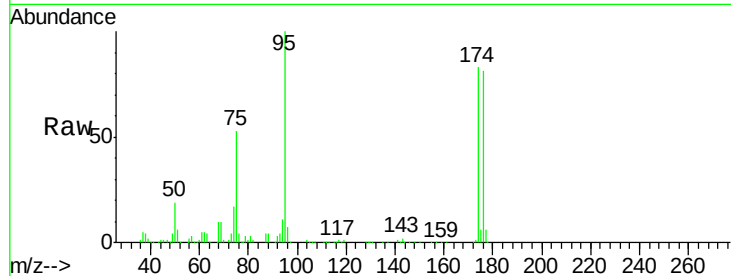




#62
4-Bromofluorobenzene
Concen: 44.50 ug/l
RT: 10.31 min Scan# 3023
Delta R.T. -0.00 min
Lab File: VU025206.D
Acq: 05 Jul 2018 11:21

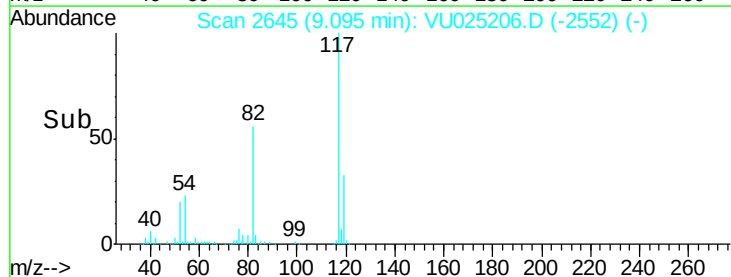
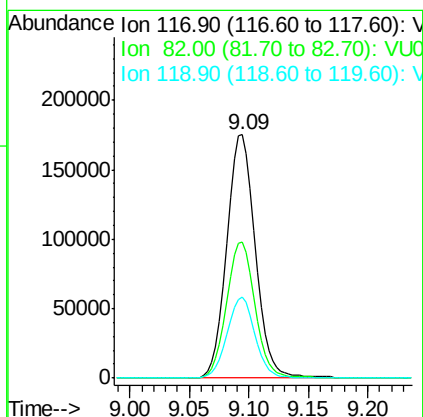
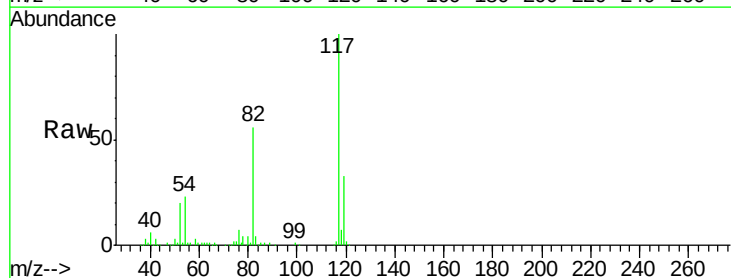
Instrument :
MSVOA_U
ClientSampled :

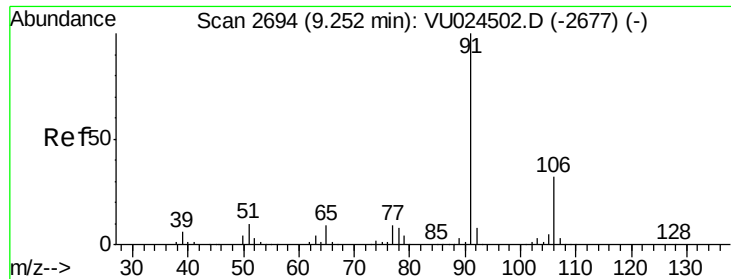
Tot Ion	95	Resp	170	213
Ion	Ratio	Lower	Upper	
95	100			
174	84.3	0.0	165.8	
176	81.1	0.0	159.4	



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.09 min Scan# 2645
Delta R.T. -0.00 min
Lab File: VU025206.D
Acq: 05 Jul 2018 11:21

Tgt Ion	117	Resp	292	442
Ion	Ratio	Lower	Upper	
117	100			
82	55.9	44.3	66.5	
119	33.3	25.4	38.2	

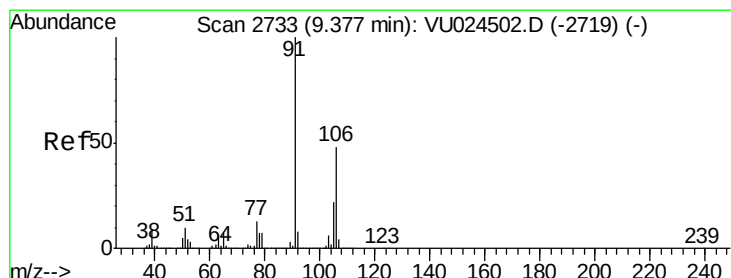
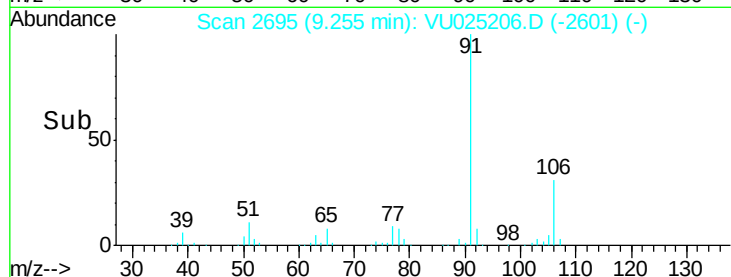
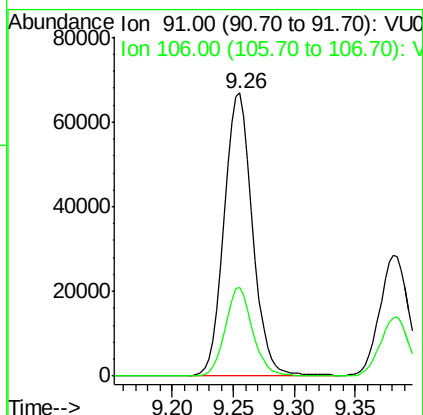
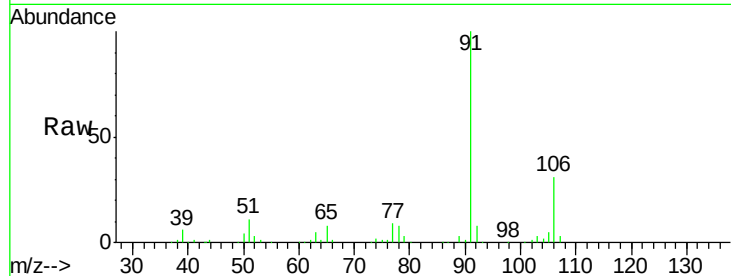




#67
Ethyl Benzene
Concen: 8.39 ug/l
RT: 9.26 min Scan# 2695
Delta R.T. 0.00 min
Lab File: VU025206.D
Acq: 05 Jul 2018 11:21

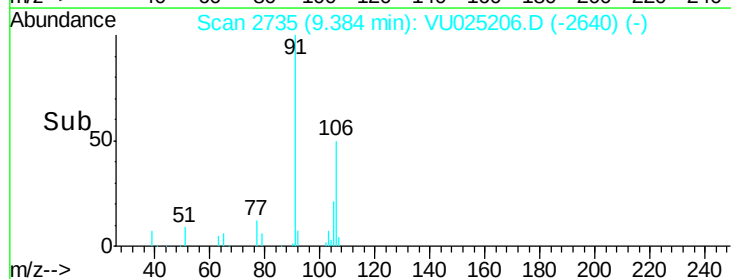
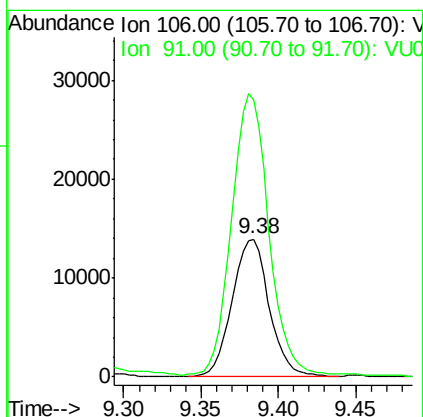
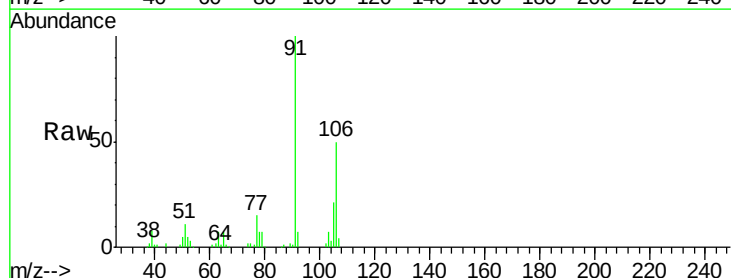
Instrument :
MSVOA_U
ClientSampleId :

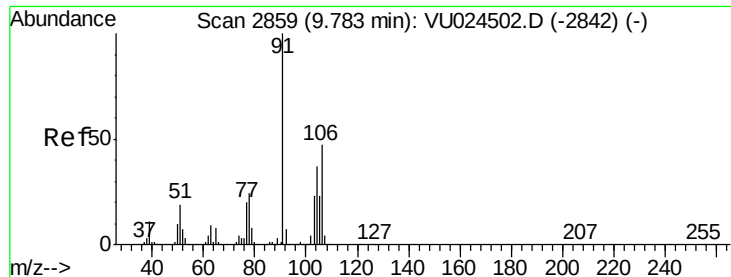
Tot Ion: 91 Resp: 109847
Ion Ratio Lower Upper
91 100
106 31.5 24.2 36.4



#68
m/p-Xylenes
Concen: 4.60 ug/l
RT: 9.38 min Scan# 2735
Delta R.T. 0.01 min
Lab File: VU025206.D
Acq: 05 Jul 2018 11:21

Tgt Ion: 106 Resp: 23122
Ion Ratio Lower Upper
106 100
91 204.7 166.5 249.7

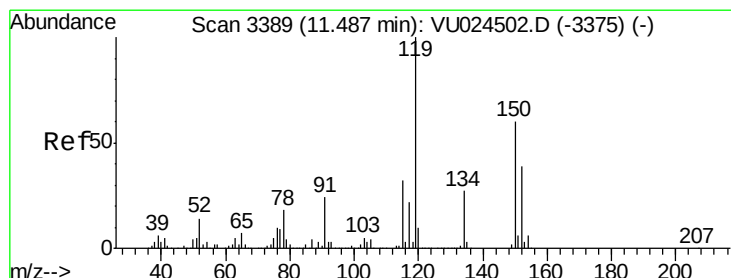
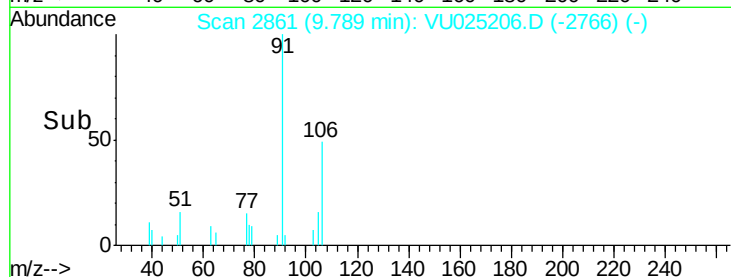
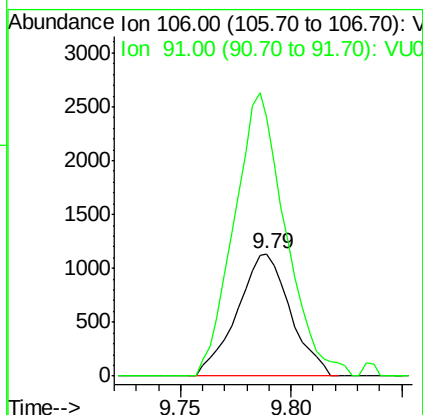
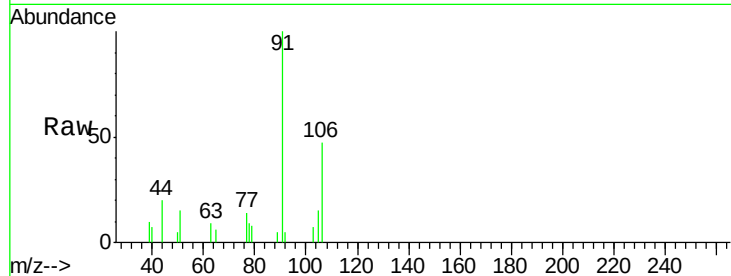




#69
o-Xylene
Concen: 0.38 ug/l
RT: 9.79 min Scan# 2861
Delta R.T. 0.01 min
Lab File: VU025206.D
Acq: 05 Jul 2018 11:21

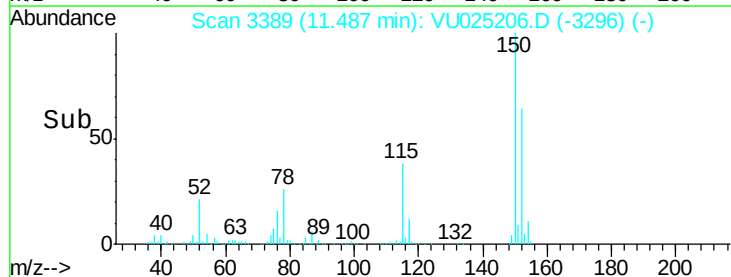
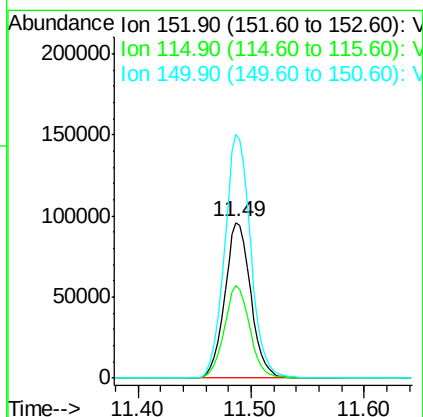
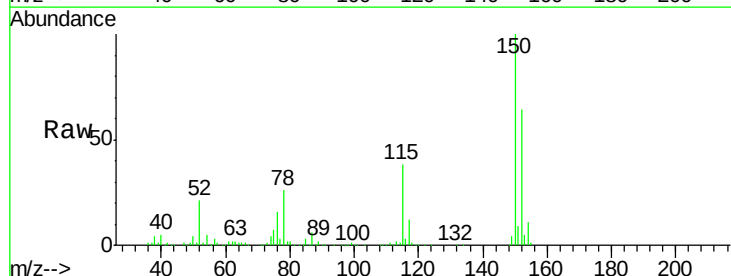
Instrument :
MSVOA_U
ClientSampled :

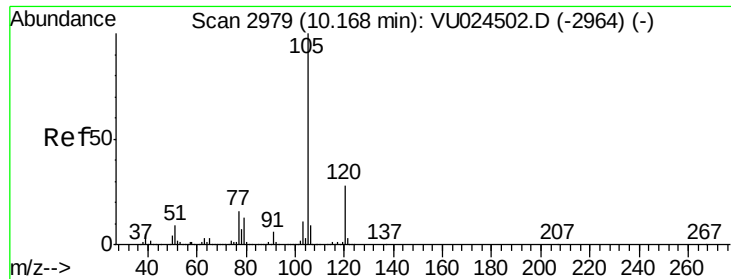
Tot Ion:106 Resp: 1898
Ion Ratio Lower Upper
106 100
91 224.0 110.7 331.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 11.49 min Scan# 3389
Delta R.T. -0.00 min
Lab File: VU025206.D
Acq: 05 Jul 2018 11:21

Tgt Ion:152 Resp: 152673
Ion Ratio Lower Upper
152 100
115 58.6 43.0 129.0
150 157.1 0.0 354.0





#73

Isopropylbenzene

Concen: 0.40 ug/l

RT: 10.17 min Scan# 2980

Delta R.T. 0.00 min

Lab File: VU025206.D

Acq: 05 Jul 2018 11:21

Instrument :

MSVOA_U

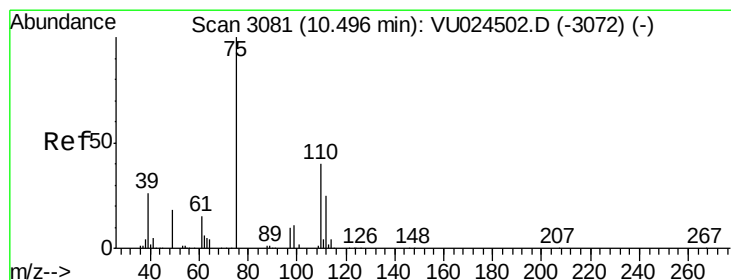
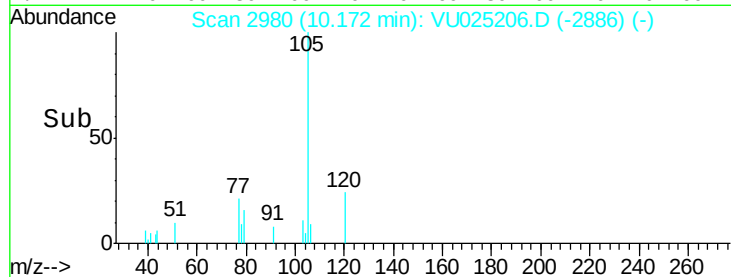
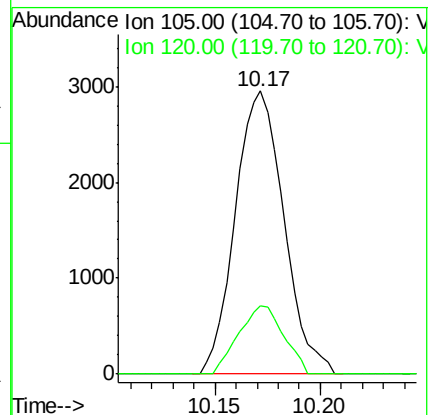
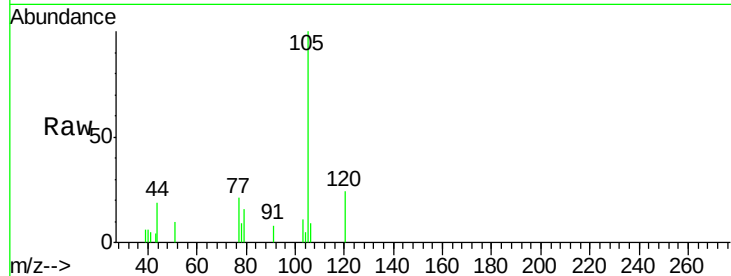
ClientSampleId :

Tot Ion:105 Resp: 4723

Ion Ratio Lower Upper

105 100

120 22.3 13.2 39.6



#76

1,2,3-Trichloropropane

Concen: 26.34 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU025206.D

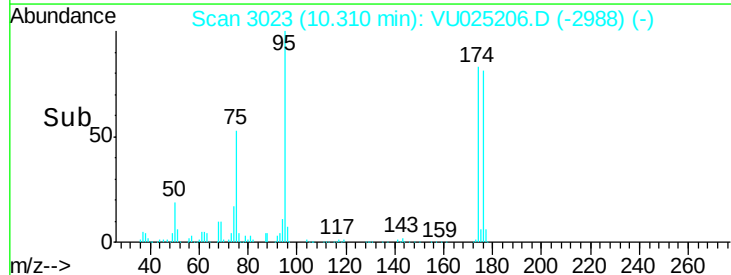
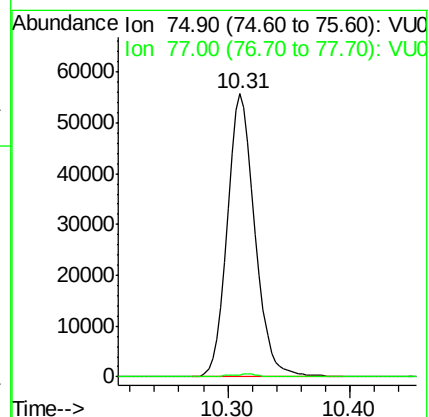
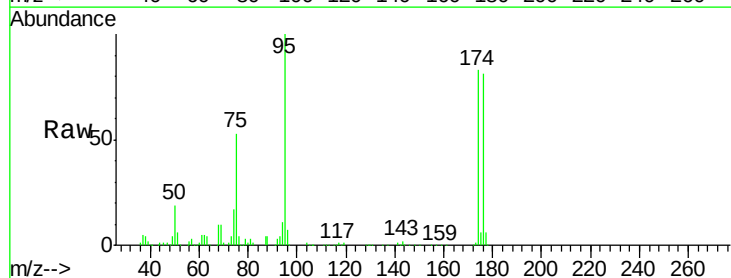
Acq: 05 Jul 2018 11:21

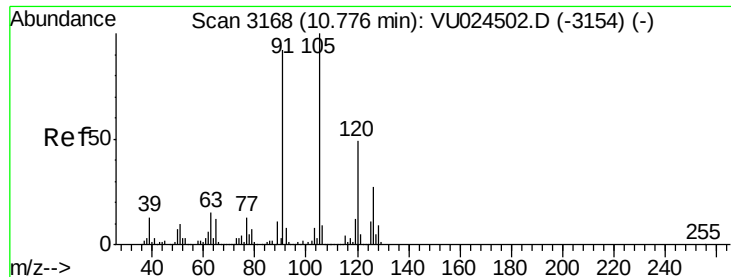
Tgt Ion: 75 Resp: 88552

Ion Ratio Lower Upper

75 100

77 1.0 20.9 62.7#





#80

1,3,5-Trimethylbenzene

Concen: 0.28 ug/l

RT: 10.78 min Scan# 3168

Delta R.T. -0.00 min

Lab File: VU025206.D

Acq: 05 Jul 2018 11:21

Instrument :

MSVOA_U

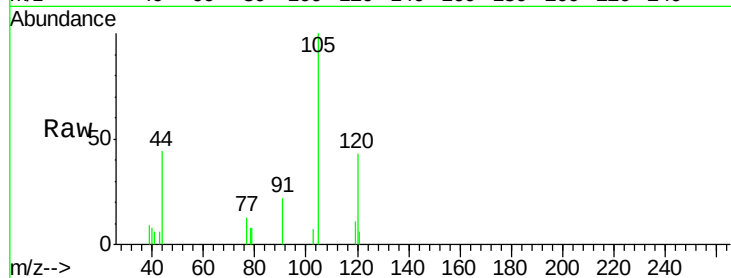
ClientSampled :

Tot Ion:105 Resp: 2810

Ion Ratio Lower Upper

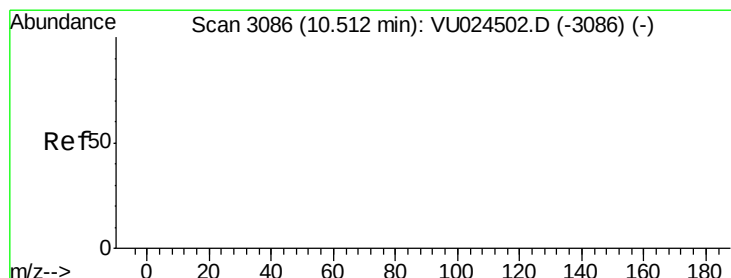
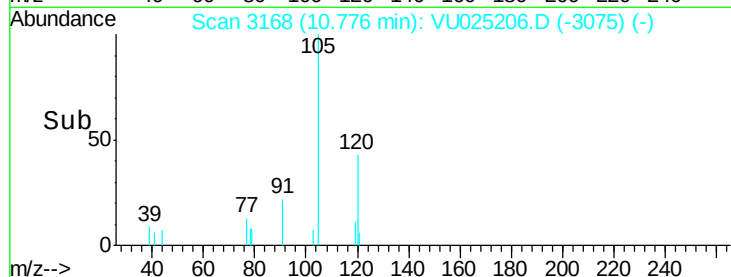
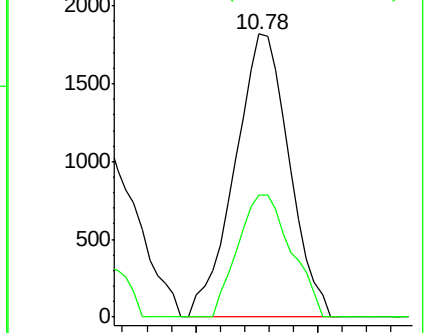
105 100

120 42.3 24.1 72.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 60.97 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.20 min

Lab File: VU025206.D

Acq: 05 Jul 2018 11:21

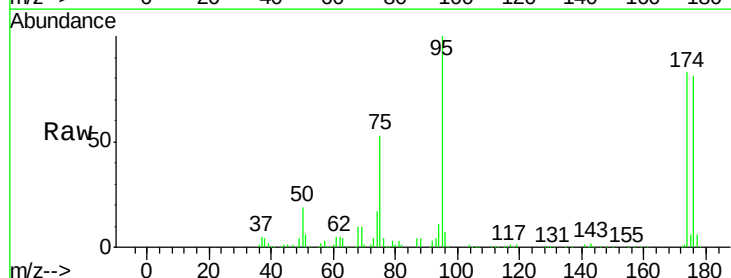
Tgt Ion: 75 Resp: 88552

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

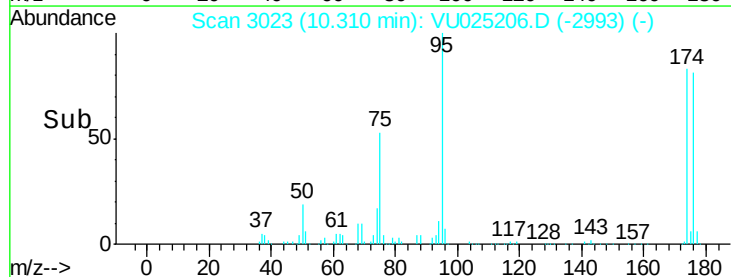
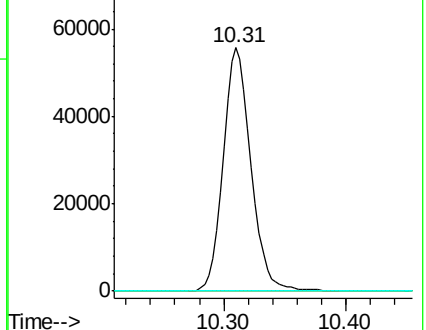
89 0.0 0.0 0.0

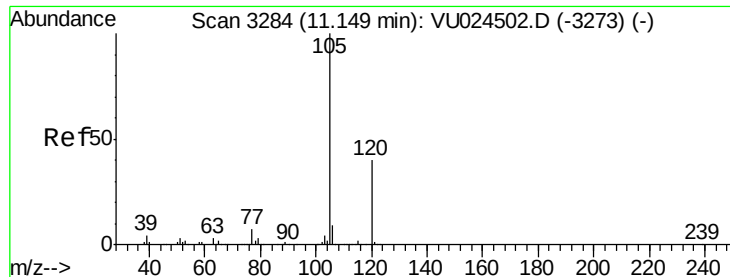


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.90 (88.60 to 89.60): VU0





#84

1,2,4-Trimethylbenzene

Concen: 0.27 ug/l

RT: 11.15 min Scan# 3285

Delta R.T. 0.00 min

Lab File: VU025206.D

Acq: 05 Jul 2018 11:21

Instrument :

MSVOA_U

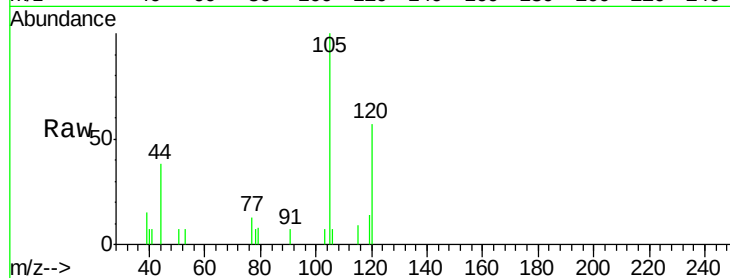
ClientSampleId :

Tot Ion:105 Resp: 2838

Ion Ratio Lower Upper

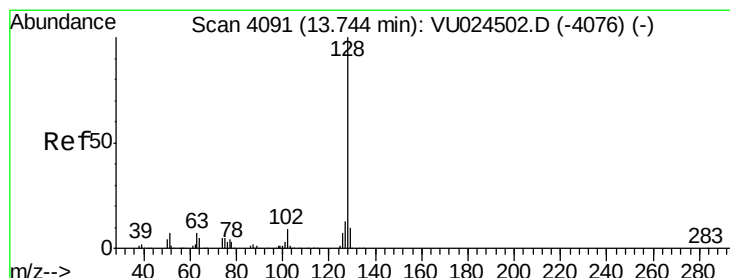
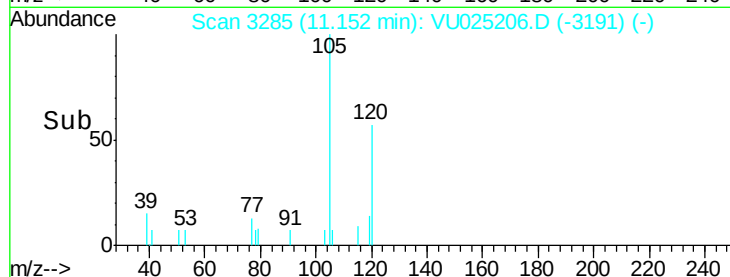
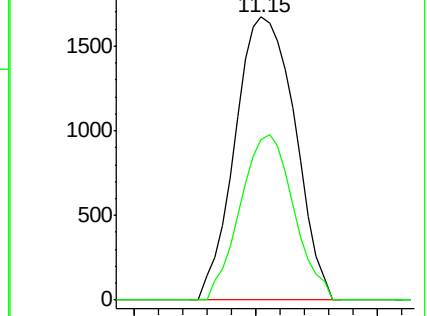
105 100

120 52.3 22.6 67.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#95

Naphthalene

Concen: 1.00 ug/l

RT: 13.76 min Scan# 4096

Delta R.T. 0.02 min

Lab File: VU025206.D

Acq: 05 Jul 2018 11:21

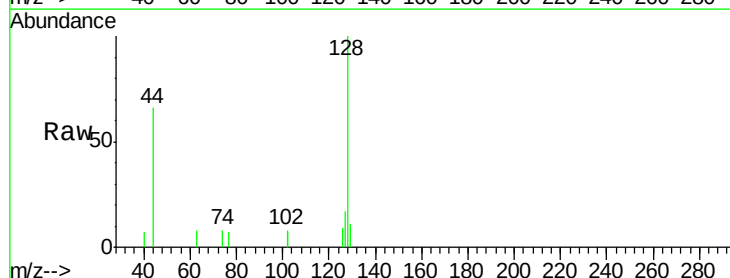
Tgt Ion:128 Resp: 3671

Ion Ratio Lower Upper

128 100

127 10.0 10.6 16.0#

129 7.6 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

