

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU070318\
 Data File : VU025198.D
 Acq On : 03 Jul 2018 18:50
 Operator : MD/SY
 Sample : J3826-02
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jul 04 05:00:25 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

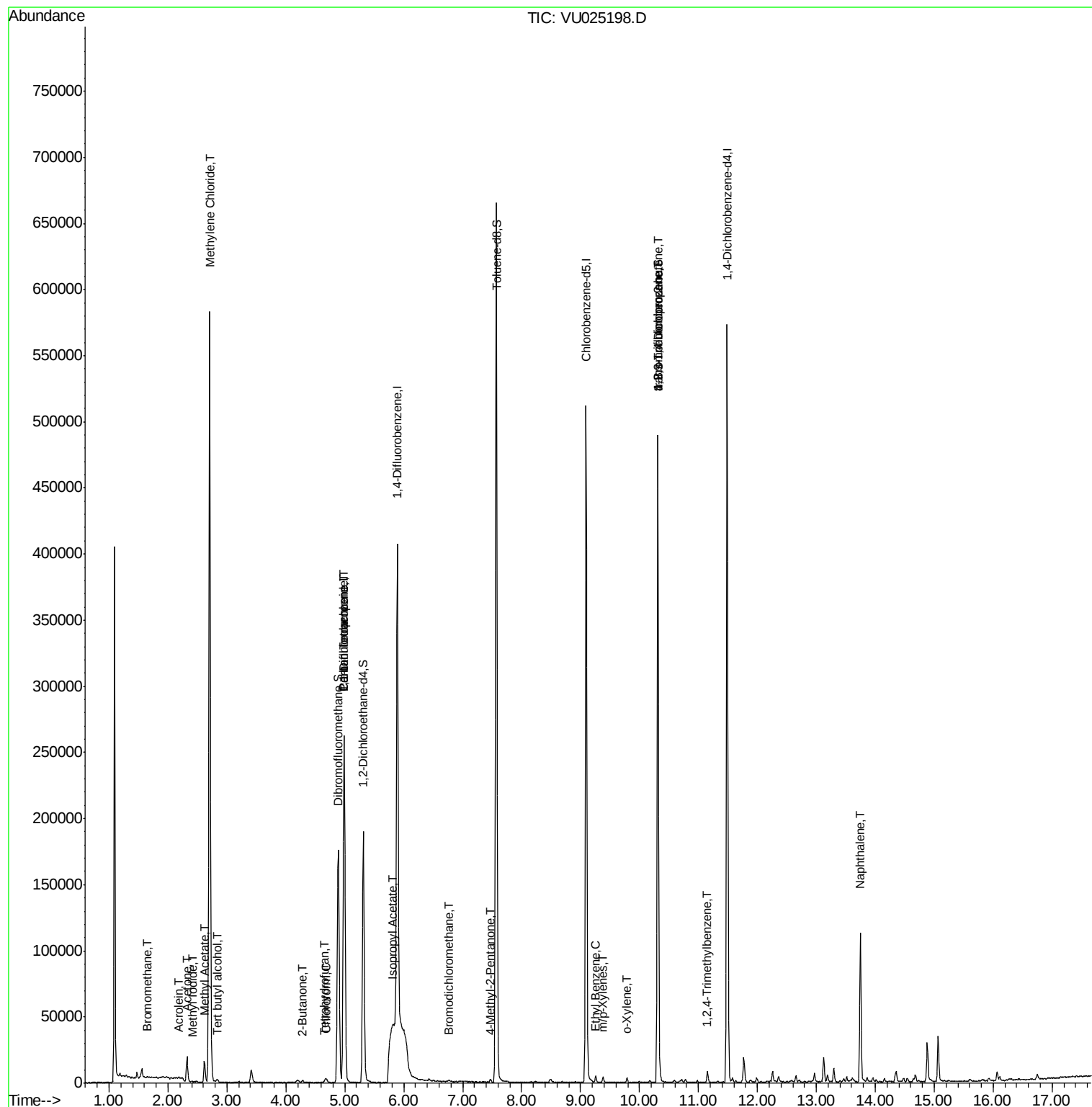
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	202014	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	312142	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	281949	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	150005	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.31	65	154207	46.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.52%	
35) Dibromofluoromethane	4.89	113	120078	46.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.70%	
50) Toluene-d8	7.57	98	436517	46.20	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.40%	
62) 4-Bromofluorobenzene	10.31	95	161152	42.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	85.90%	
Target Compounds						
					Qvalue	
5) Bromomethane	1.64	94	483	0.375	ug/l	83
6) Chloroethane	1.69	64	308	Below Cal	#	43
10) Methyl Iodide	2.42	142	208	5.376	ug/l #	40
11) Tert butyl alcohol	2.83	59	1660	2.070	ug/l #	72
13) Acrolein	2.20	56	292	0.693	ug/l #	33
16) Acetone	2.32	43	20964	11.831	ug/l	100
18) Methyl Acetate	2.62	43	19615	5.164	ug/l	97
20) Methylene Chloride	2.71	84	257609	92.654	ug/l	98
25) 2-Butanone	4.28	43	3130	1.315	ug/l #	77
29) Tetrahydrofuran	4.65	42	342	0.232	ug/l #	55
30) Chloroform	4.68	83	3166	0.642	ug/l	99
31) Cyclohexane	4.98	56	4123	Below Cal	#	20
36) 1,1-Dichloropropene	4.99	75	14852	4.049	ug/l #	51
38) Carbon Tetrachloride	4.99	117	19154	4.749	ug/l #	16
43) Isopropyl Acetate	5.81	43	63400	9.175	ug/l #	62
47) Bromodichloromethane	6.76	83	1191	0.305	ug/l #	82
51) 4-Methyl-2-Pentanone	7.46	43	2028	0.467	ug/l #	74
67) Ethyl Benzene	9.26	91	4217	0.334	ug/l	100
68) m/p-Xylenes	9.38	106	1440	0.297	ug/l	93
69) o-Xylene	9.79	106	1141	0.238	ug/l	93
76) 1,2,3-Trichloropropane	10.31	75	85135	25.778	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.31	75	85135	59.662	ug/l #	100
84) 1,2,4-Trimethylbenzene	11.16	105	4898	0.481	ug/l	99
95) Naphthalene	13.75	128	93630	9.053	ug/l	98

(#) = 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: VU025198.D

Acq: 03 Jul 2018 18:50

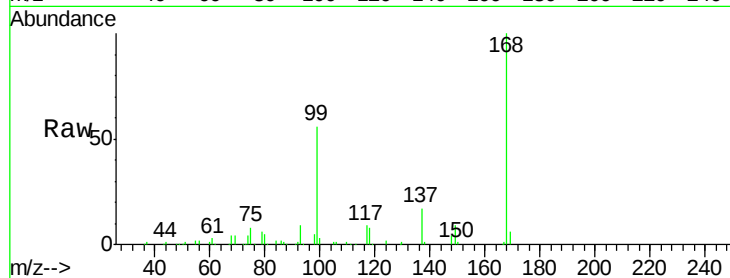
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:168 Resp: 202014

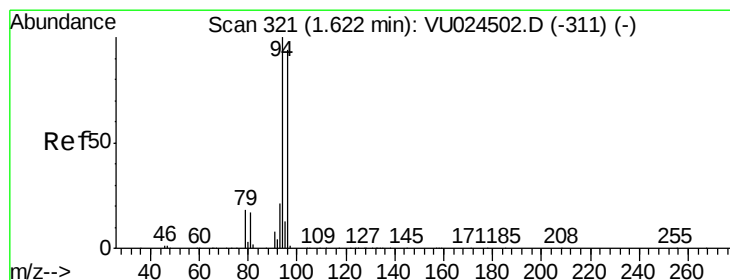
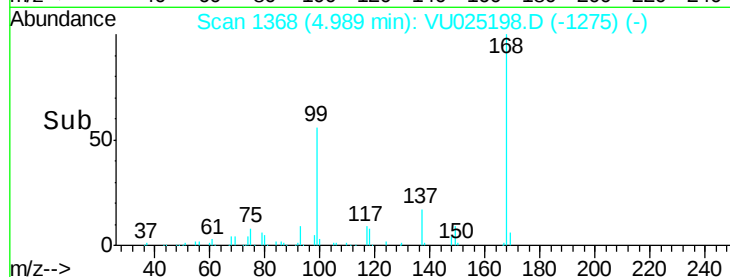
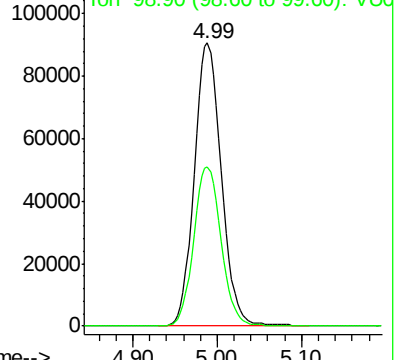
Ion Ratio Lower Upper

168 100

99 56.2 43.2 64.8



Abundance Ion 167.90 (167.60 to 168.60): VU025198.D (-1275) (-)



#5

Bromomethane

Concen: 0.375 ug/l

RT: 1.64 min Scan# 327

Delta R.T. 0.02 min

Lab File: VU025198.D

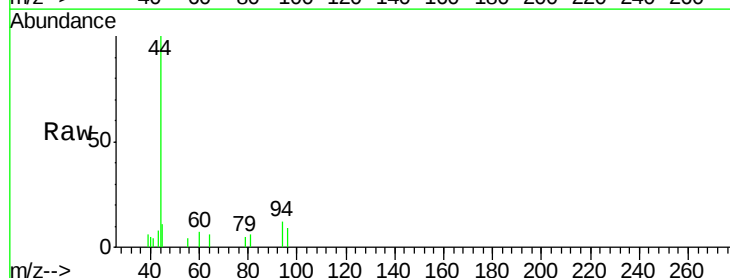
Acq: 03 Jul 2018 18:50

Tgt Ion: 94 Resp: 483

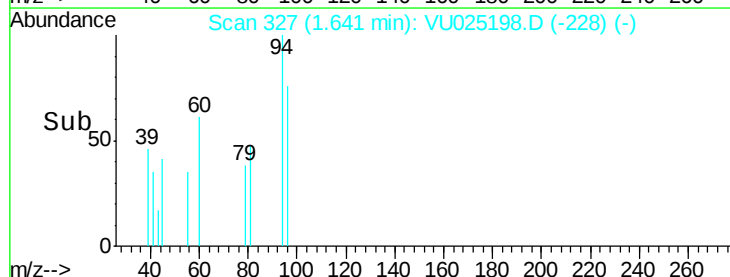
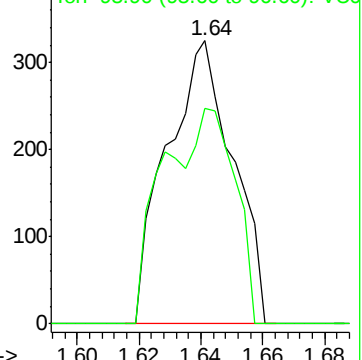
Ion Ratio Lower Upper

94 100

96 76.3 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VU025198.D (-228) (-)





#6

Chloroethane

Concen: Below Cal

RT: 1.69 min Scan# 342

Delta R.T. -0.01 min

Lab File: VU025198.D

Acq: 03 Jul 2018 18:50

Instrument :

MSVOA_U

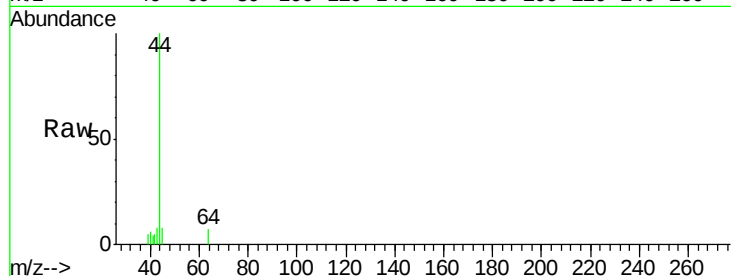
ClientSampleId :

Tot Ion: 64 Resp: 308

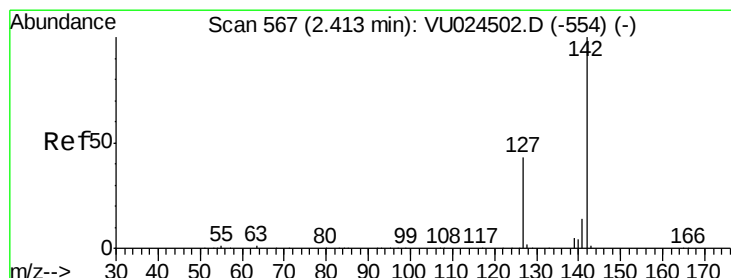
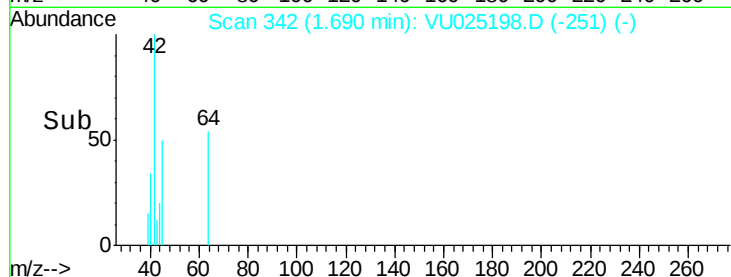
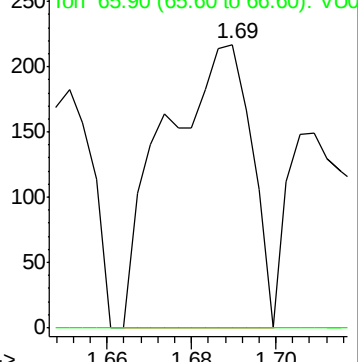
Ion Ratio Lower Upper

64 100

66 0.0 25.5 38.3#



Abundance Ion 63.90 (63.60 to 64.60): VU025198.D (-251) (-)



#10

Methyl Iodide

Concen: 5.376 ug/l

RT: 2.42 min Scan# 568

Delta R.T. 0.00 min

Lab File: VU025198.D

Acq: 03 Jul 2018 18:50

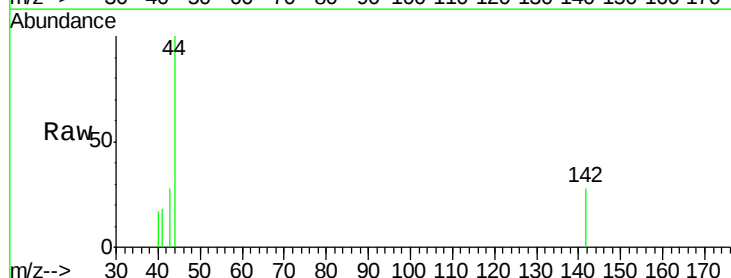
Tgt Ion: 142 Resp: 208

Ion Ratio Lower Upper

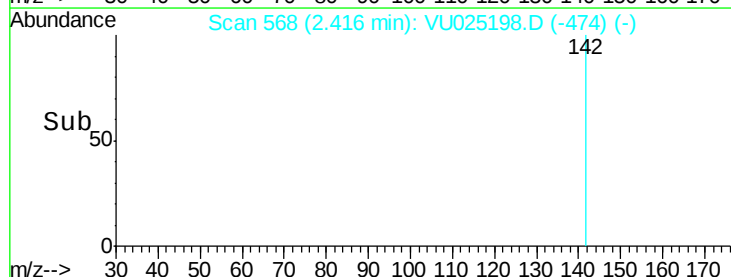
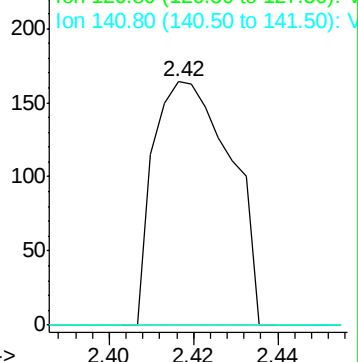
142 100

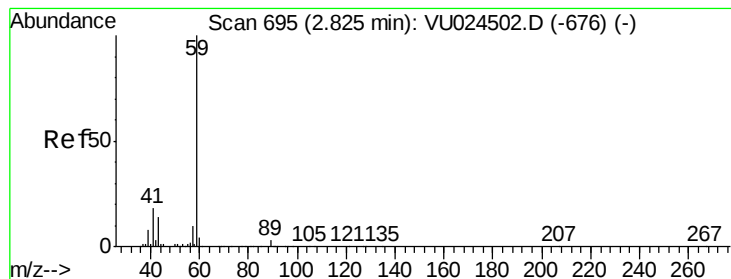
127 0.0 35.6 53.4#

141 0.0 11.7 17.5#



Abundance Ion 141.80 (141.50 to 142.50): VU025198.D (-474) (-)



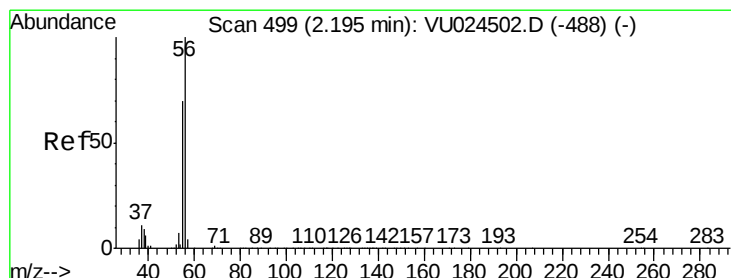
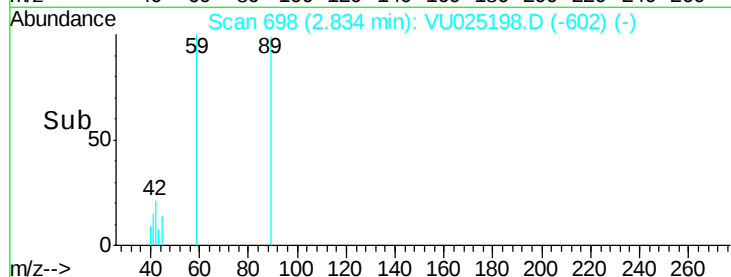
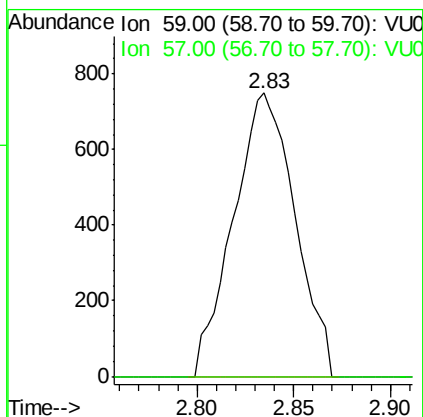
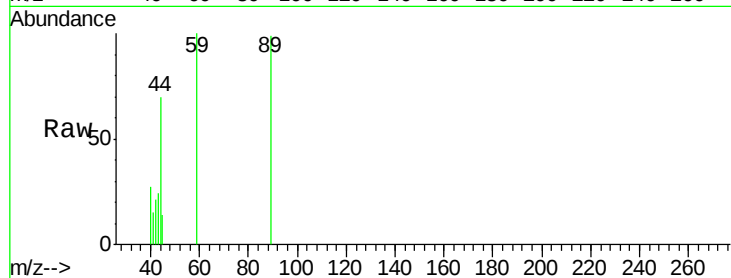


#11

Tert butyl alcohol
 Concen: 2.070 ug/l
 RT: 2.83 min Scan# 698
 Delta R.T. 0.01 min
 Lab File: VU025198.D
 Acq: 03 Jul 2018 18:50

Instrument :
 MSVOA_U
 ClientSampleId :

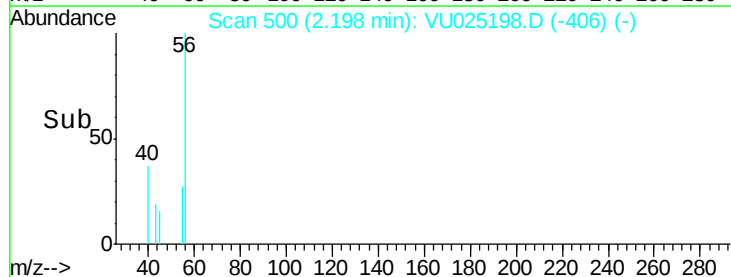
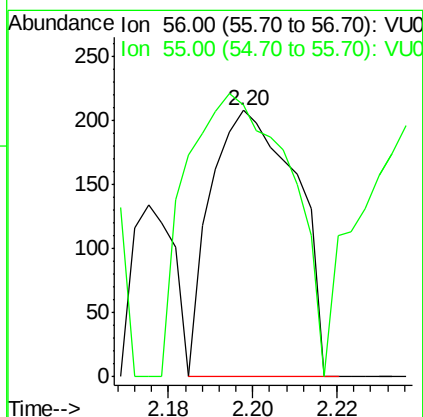
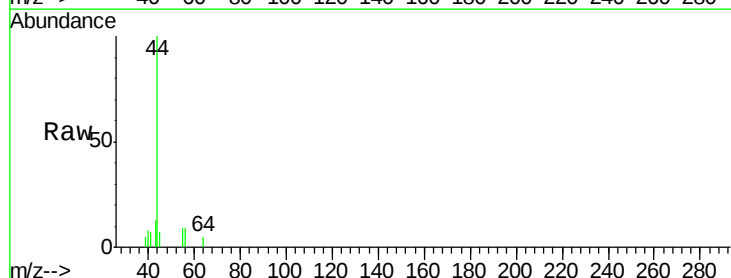
Tot Ion: 59 Resp: 1660
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.5 12.7#

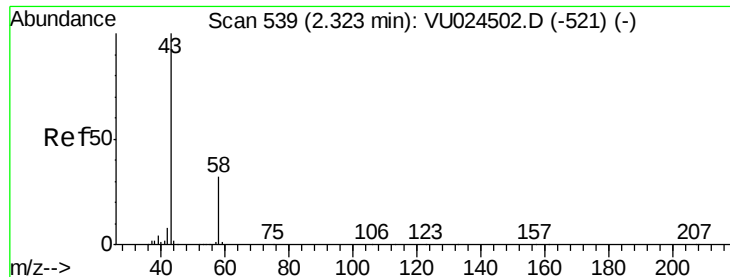


#13

Acrolein
 Concen: 0.693 ug/l
 RT: 2.20 min Scan# 500
 Delta R.T. 0.00 min
 Lab File: VU025198.D
 Acq: 03 Jul 2018 18:50

Tgt Ion: 56 Resp: 292
 Ion Ratio Lower Upper
 56 100
 55 129.5 58.4 87.6#





#16

Acetone

Concen: 11.831 ug/l

RT: 2.32 min Scan# 539

Delta R.T. -0.00 min

Lab File: VU025198.D

Acq: 03 Jul 2018 18:50

Instrument :

MSVOA_U

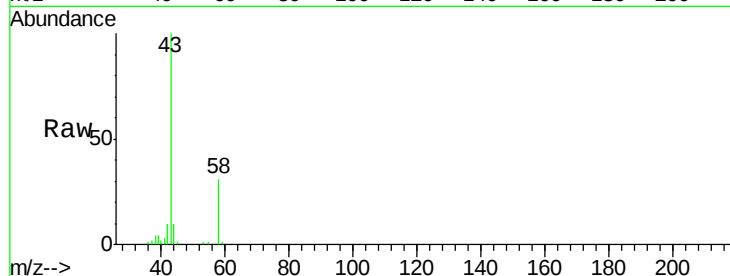
ClientSampled :

Tot Ion: 43 Resp: 20964

Ion Ratio Lower Upper

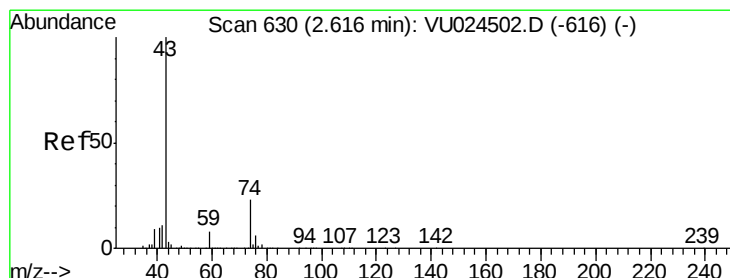
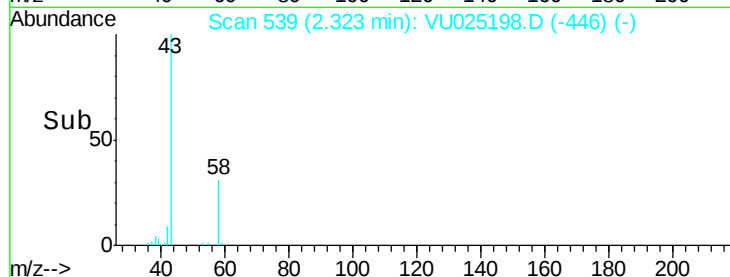
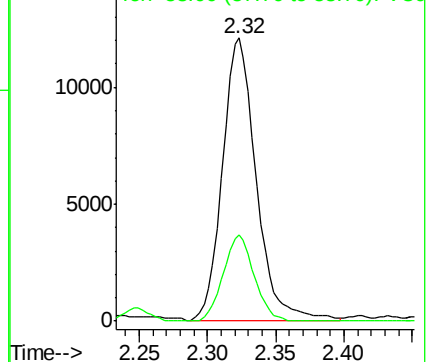
43 100

58 30.5 24.4 36.6



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#18

Methyl Acetate

Concen: 5.164 ug/l

RT: 2.62 min Scan# 631

Delta R.T. 0.00 min

Lab File: VU025198.D

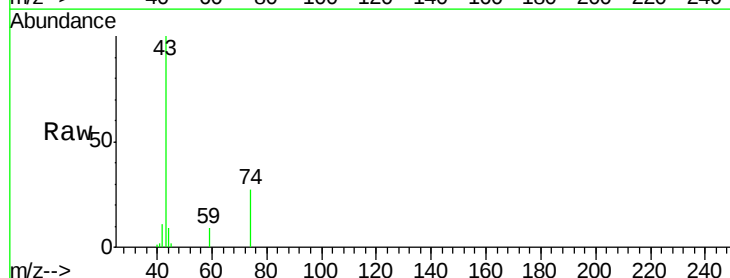
Acq: 03 Jul 2018 18:50

Tgt Ion: 43 Resp: 19615

Ion Ratio Lower Upper

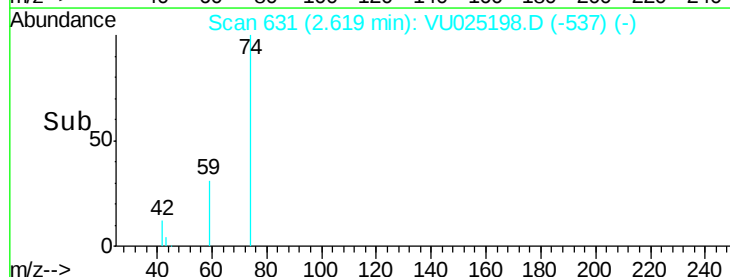
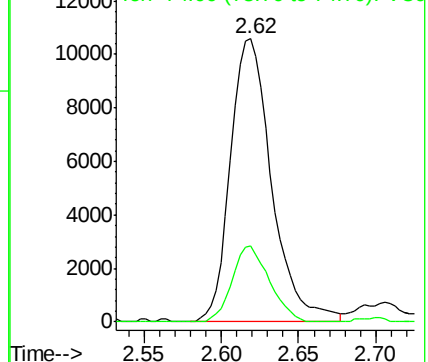
43 100

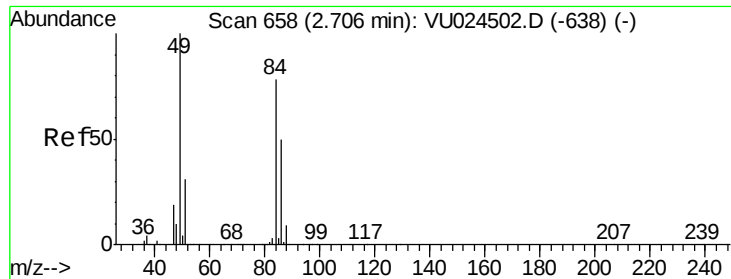
74 24.1 18.0 27.0



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0





#20

Methvlene Chloride

Concen: 92.654 ug/l

RT: 2.71 min Scan# 658

Delta R.T. -0.00 min

Lab File: VU025198.D

Acq: 03 Jul 2018 18:50

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 84 Resp: 257609

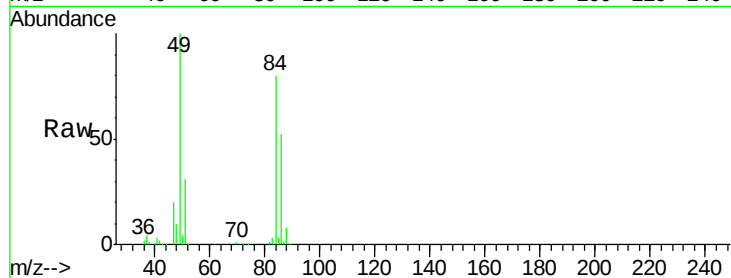
Ion Ratio Lower Upper

84 100

49 125.6 103.8 155.8

51 39.3 32.0 48.0

86 65.0 51.6 77.4

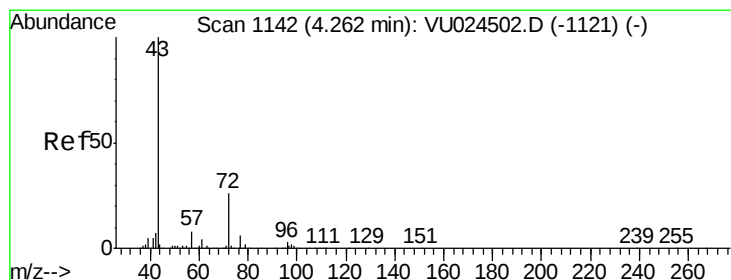
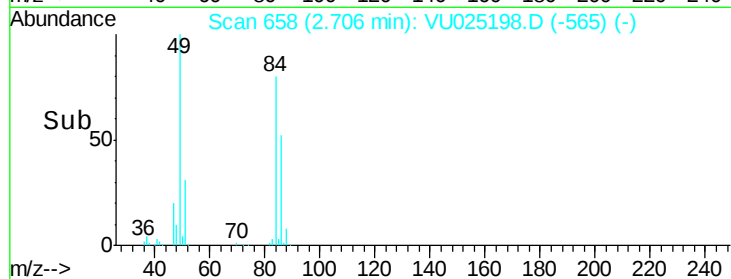
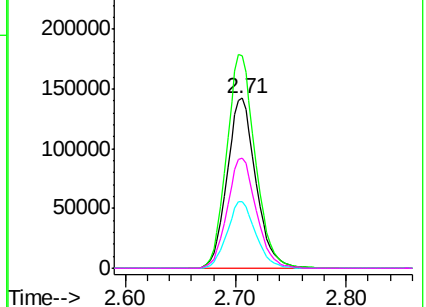


Abundance Ion 83.90 (83.60 to 84.60): VU0

Ion 48.90 (48.60 to 49.60): VU0

Ion 50.90 (50.60 to 51.60): VU0

Ion 85.90 (85.60 to 86.60): VU0



#25

2-Butanone

Concen: 1.315 ug/l

RT: 4.28 min Scan# 1148

Delta R.T. 0.02 min

Lab File: VU025198.D

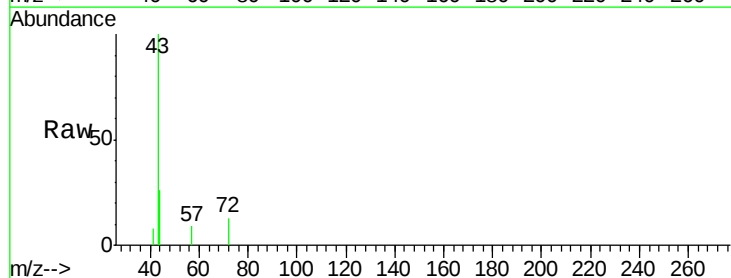
Acq: 03 Jul 2018 18:50

Tgt Ion: 43 Resp: 3130

Ion Ratio Lower Upper

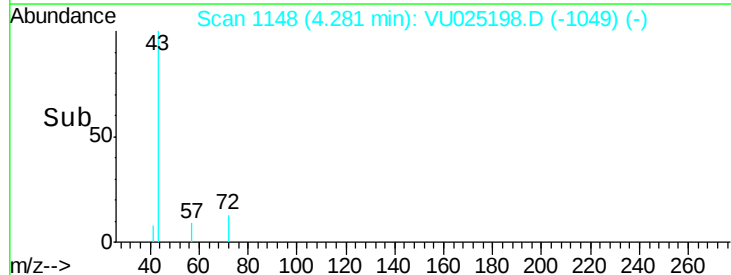
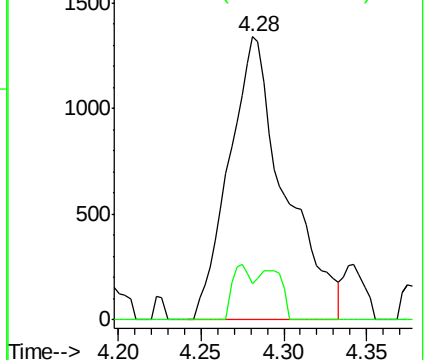
43 100

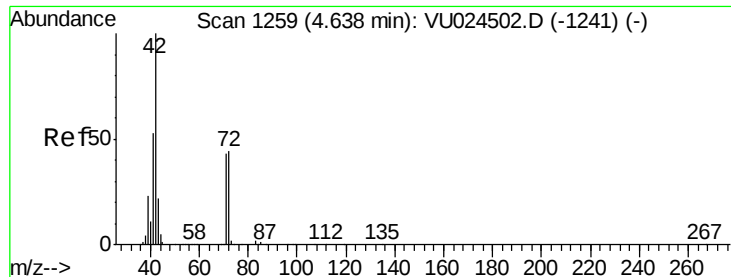
72 12.9 19.6 29.4#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 72.00 (71.70 to 72.70): VU0





#29

Tetrahydrofuran

Concen: 0.232 ug/l

RT: 4.65 min Scan# 1262

Delta R.T. 0.01 min

Lab File: VU025198.D

Acq: 03 Jul 2018 18:50

Instrument :

MSVOA_U

ClientSampled :

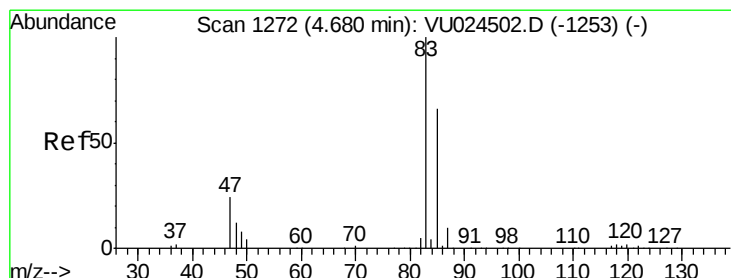
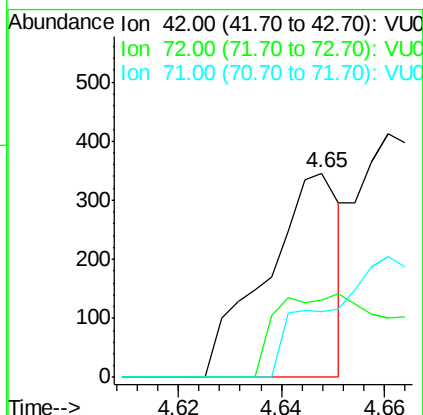
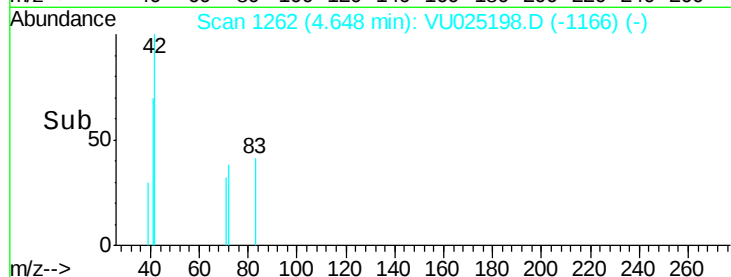
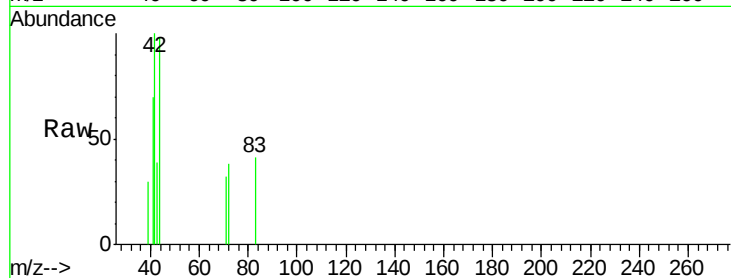
Tot Ion: 42 Resp: 342

Ion Ratio Lower Upper

42 100

72 60.5 34.5 51.7#

71 0.0 32.2 48.4#



#30

Chloroform

Concen: 0.642 ug/l

RT: 4.68 min Scan# 1271

Delta R.T. -0.00 min

Lab File: VU025198.D

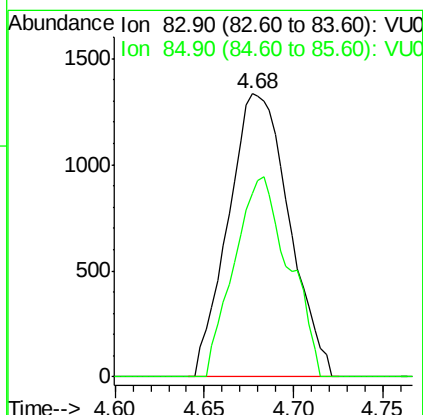
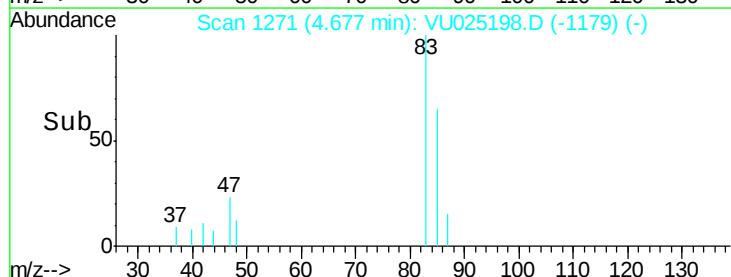
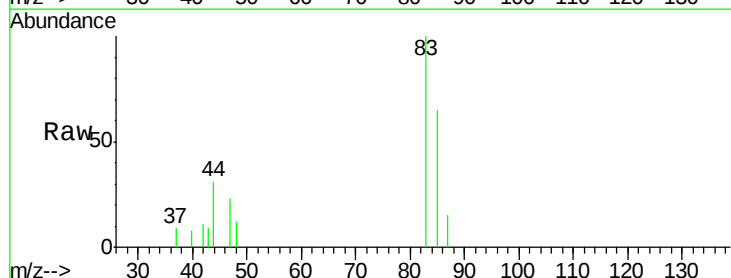
Acq: 03 Jul 2018 18:50

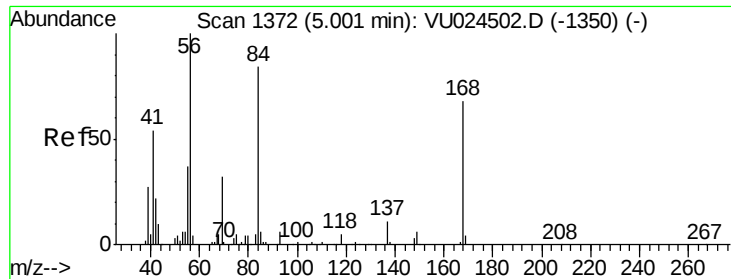
Tgt Ion: 83 Resp: 3166

Ion Ratio Lower Upper

83 100

85 64.8 52.4 78.6

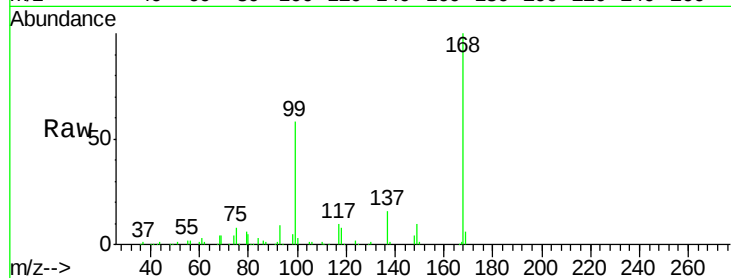




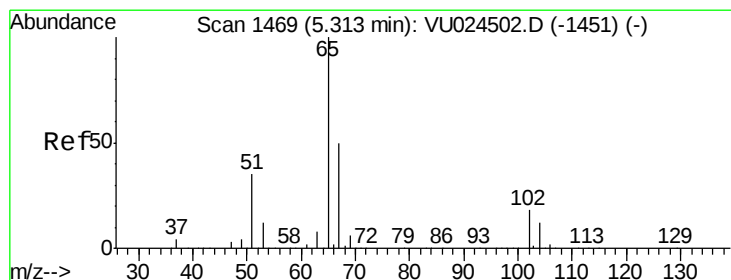
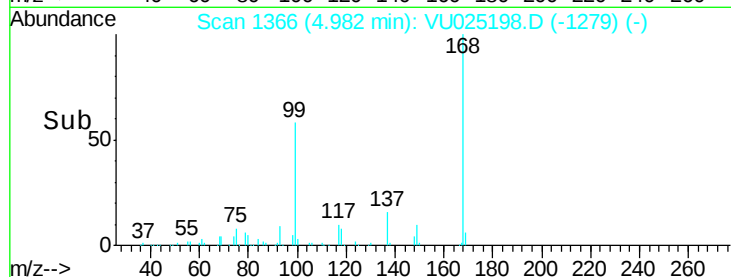
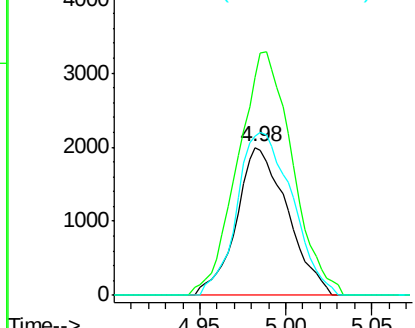
#31
Cyclohexane
Concen: Below Cal
RT: 4.98 min Scan# 1366
Delta R.T. -0.02 min
Lab File: VU025198.D
Acq: 03 Jul 2018 18:50

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 56 Resp: 4123
Ion Ratio Lower Upper
56 100
69 147.1 24.8 37.2#
84 107.9 65.2 97.8#

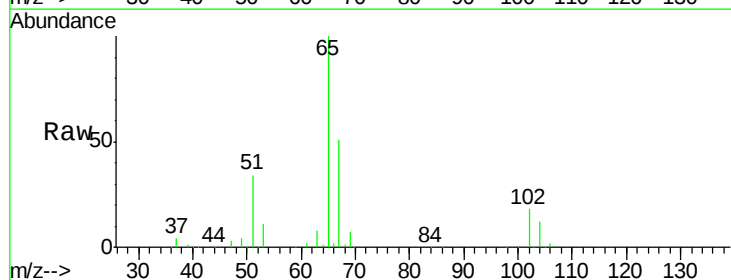


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

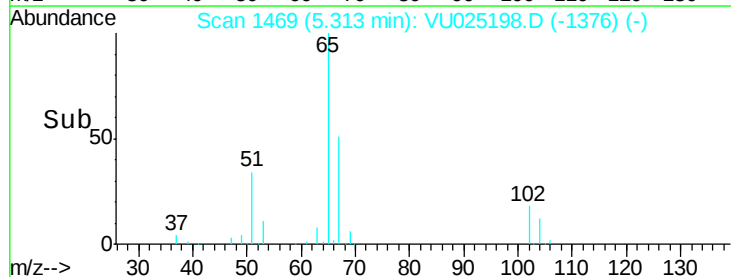
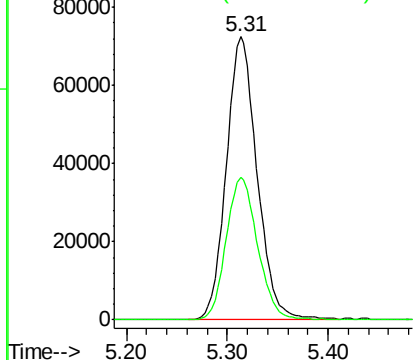


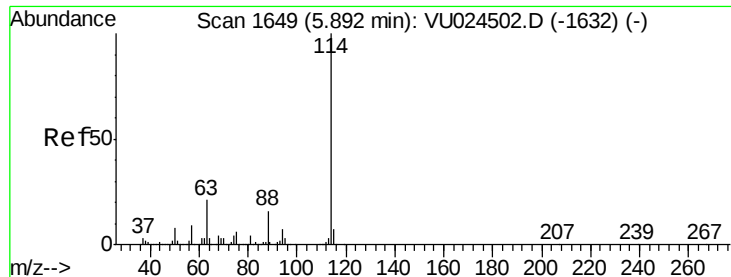
#33
1,2-Dichloroethane-d4
Concen: 46.759 ug/l
RT: 5.31 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VU025198.D
Acq: 03 Jul 2018 18:50

Tgt Ion: 65 Resp: 154207
Ion Ratio Lower Upper
65 100
67 51.3 0.0 107.0



Abundance Ion 64.90 (64.60 to 65.60): VU0
Ion 66.90 (66.60 to 67.60): VU0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.89 min Scan# 1649

Delta R.T. -0.00 min

Lab File: VU025198.D

Acq: 03 Jul 2018 18:50

Instrument :

MSVOA_U

ClientSampleId :

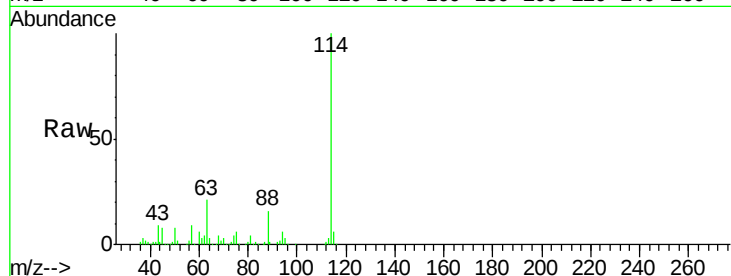
Tot Ion:114 Resp: 312142

Ion Ratio Lower Upper

114 100

63 20.7 0.0 45.4

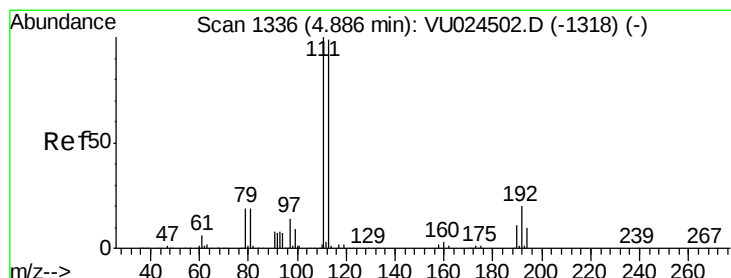
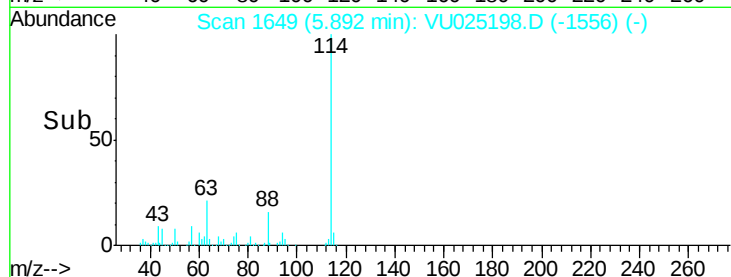
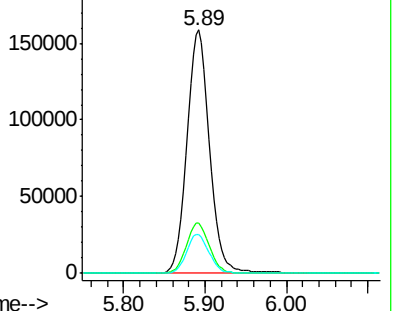
88 16.1 0.0 31.0



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: 46.353 ug/l

RT: 4.89 min Scan# 1337

Delta R.T. 0.00 min

Lab File: VU025198.D

Acq: 03 Jul 2018 18:50

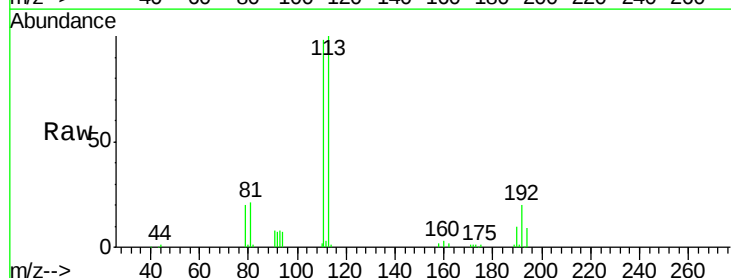
Tgt Ion:113 Resp: 120078

Ion Ratio Lower Upper

113 100

111 100.7 82.2 123.4

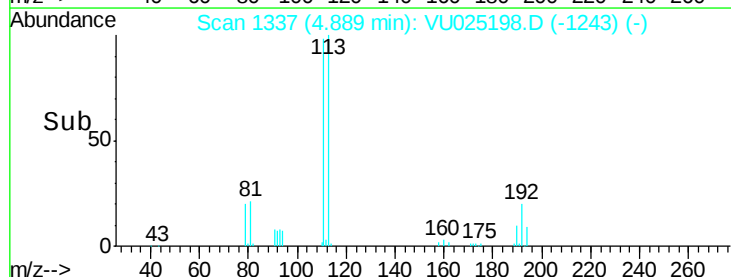
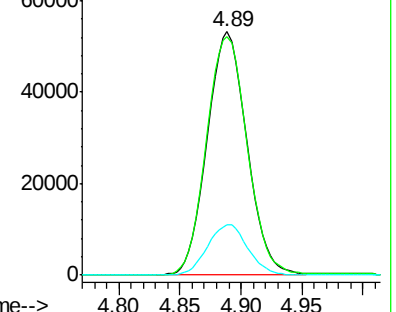
192 21.0 16.2 24.4

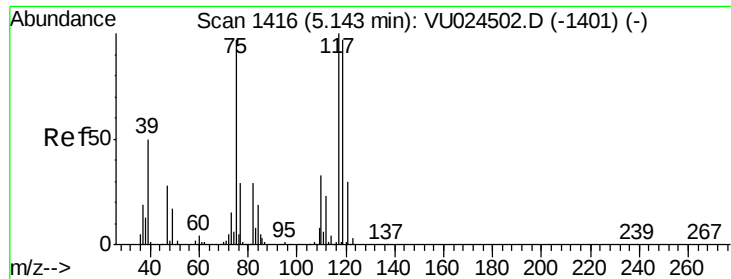


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

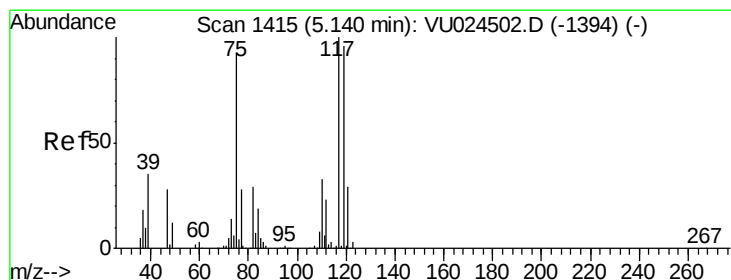
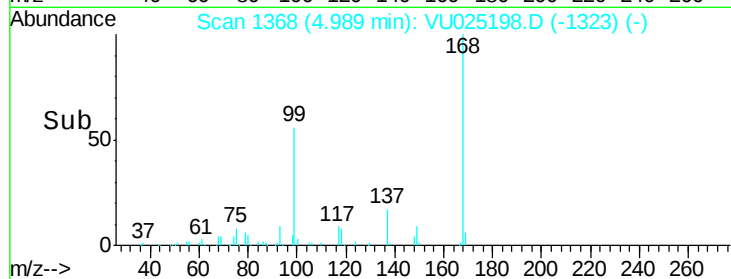
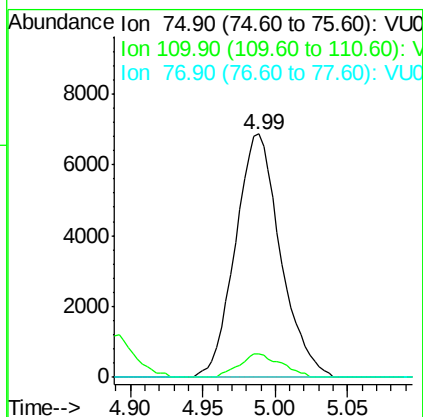
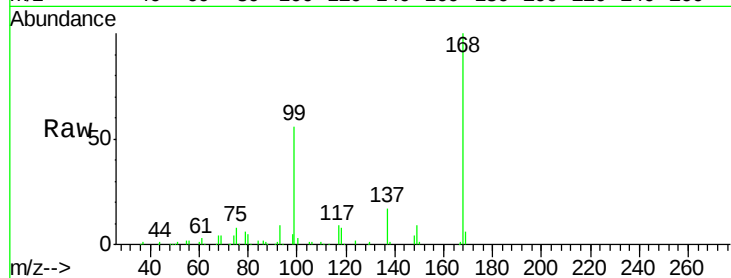




#36
 1,1-Dichloropropene
 Concen: 4.049 ug/l
 RT: 4.99 min Scan# 1368
 Delta R.T. -0.15 min
 Lab File: VU025198.D
 Acq: 03 Jul 2018 18:50

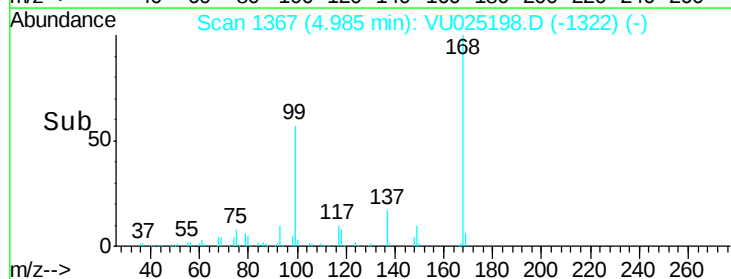
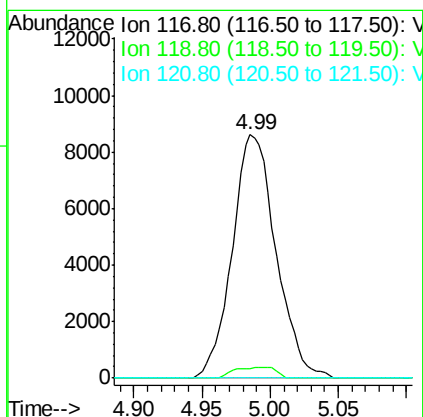
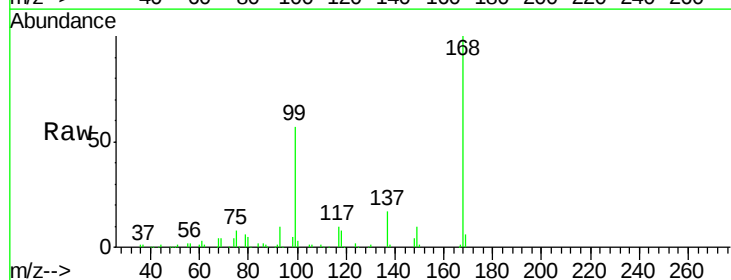
Instrument :
 MSVOA_U
 ClientSampleId :

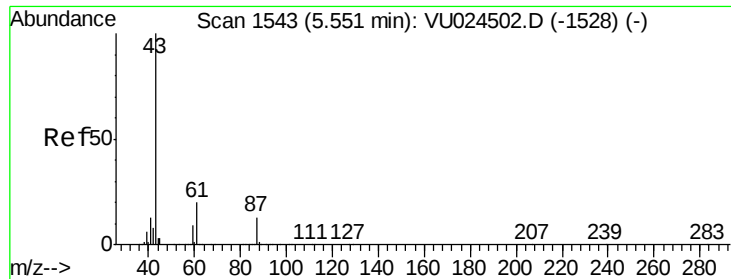
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.0	17.0	50.9#
77	0.0	24.2	36.4#



#38
 Carbon Tetrachloride
 Concen: 4.749 ug/l
 RT: 4.99 min Scan# 1367
 Delta R.T. -0.15 min
 Lab File: VU025198.D
 Acq: 03 Jul 2018 18:50

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.1	76.1	114.1#
121	0.0	23.7	35.5#





#43

Isopropyl Acetate

Concen: 9.175 ug/l

RT: 5.81 min Scan# 1623

Delta R.T. 0.26 min

Lab File: VU025198.D

Acq: 03 Jul 2018 18:50

Instrument :

MSVOA_U

ClientSampleId :

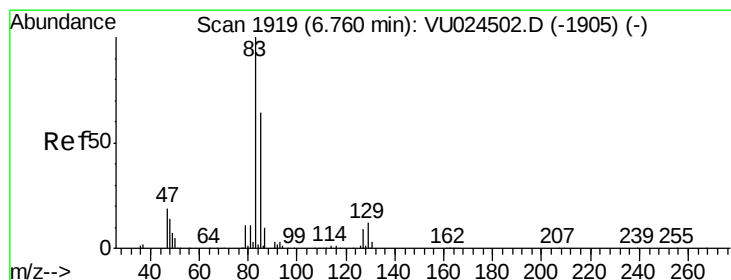
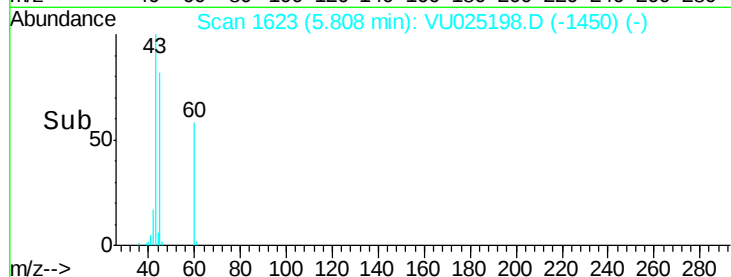
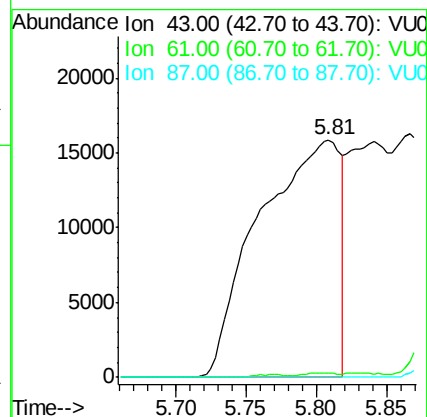
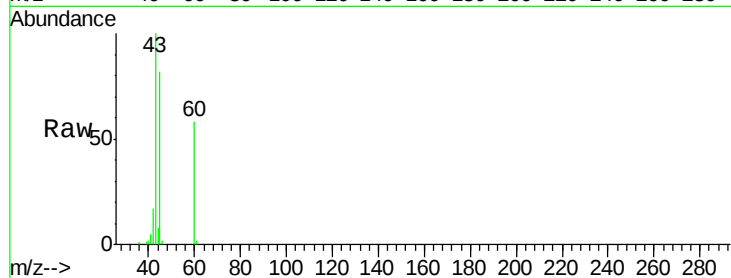
Tot Ion: 43 Resp: 63400

Ion Ratio Lower Upper

43 100

61 0.3 15.4 23.0#

87 0.0 10.0 15.0#



#47

Bromodichloromethane

Concen: 0.305 ug/l

RT: 6.76 min Scan# 1920

Delta R.T. 0.00 min

Lab File: VU025198.D

Acq: 03 Jul 2018 18:50

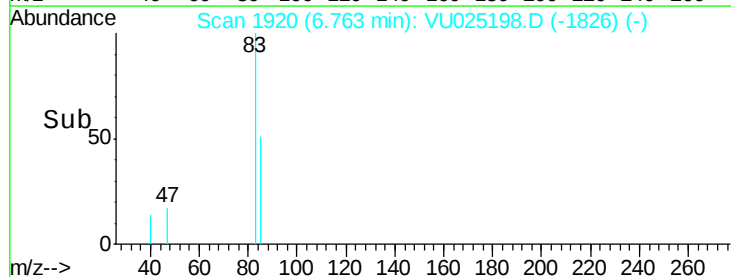
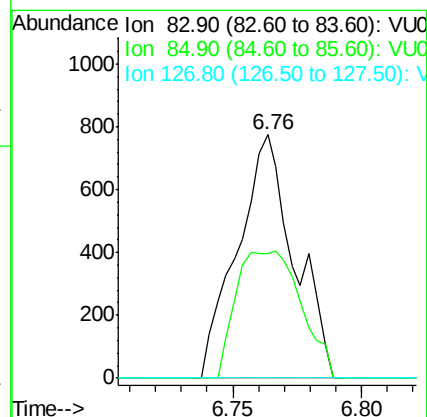
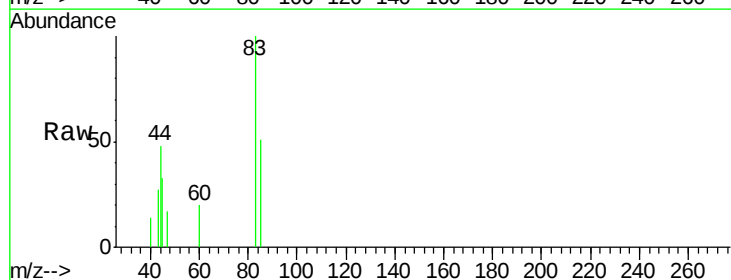
Tgt Ion: 83 Resp: 1191

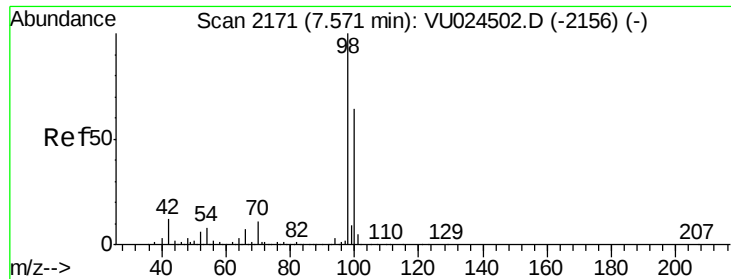
Ion Ratio Lower Upper

83 100

85 51.4 51.9 77.9#

127 0.0 6.6 9.8#

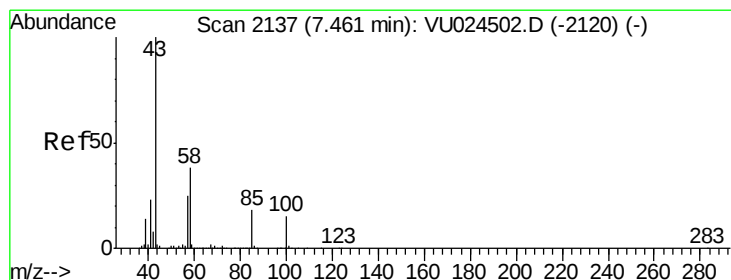
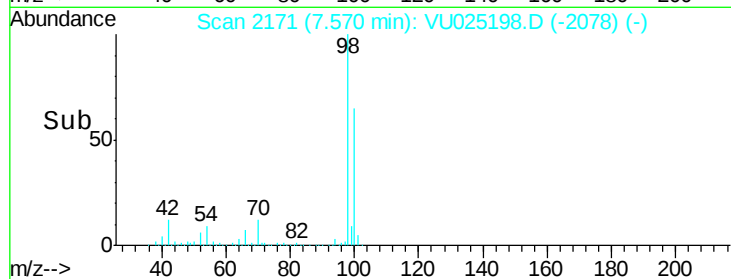
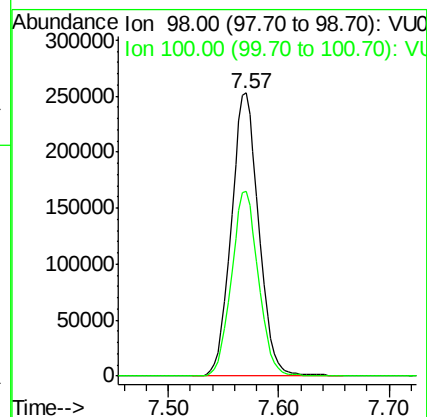
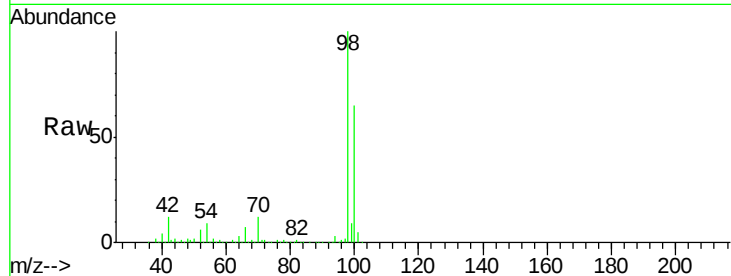




#50
Toluene-d8
Concen: 46.196 ug/l
RT: 7.57 min Scan# 2171
Delta R.T. -0.00 min
Lab File: VU025198.D
Acq: 03 Jul 2018 18:50

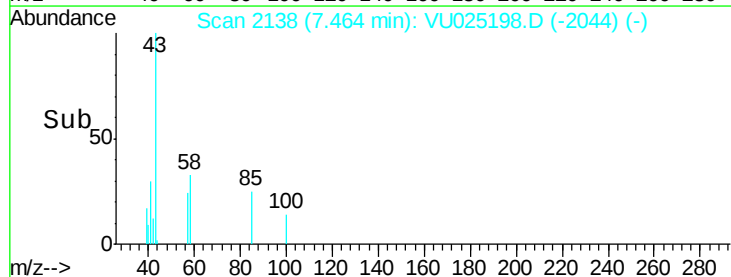
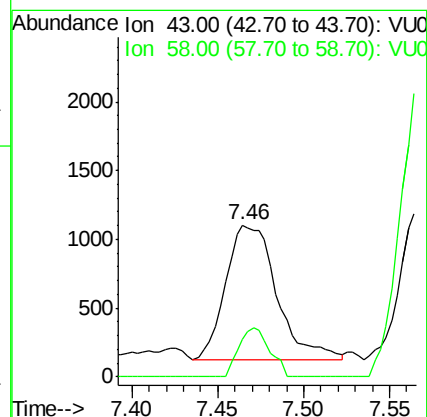
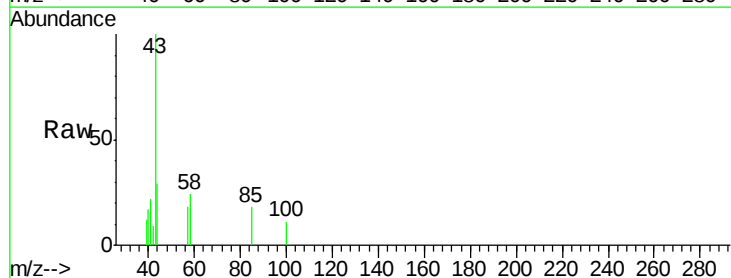
Instrument :
MSVOA_U
ClientSampled :

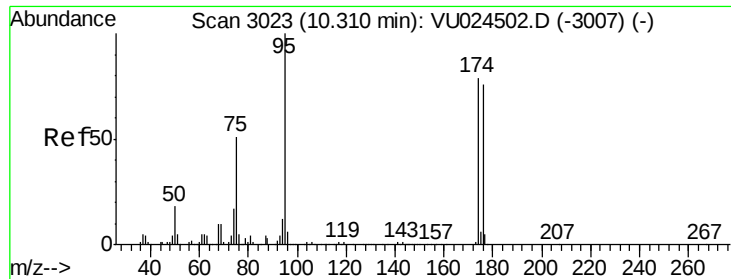
Tot Ion: 98 Resp: 436517
Ion Ratio Lower Upper
98 100
100 64.2 51.1 76.7



#51
4-Methyl-2-Pentanone
Concen: 0.467 ug/l
RT: 7.46 min Scan# 2138
Delta R.T. 0.00 min
Lab File: VU025198.D
Acq: 03 Jul 2018 18:50

Tgt Ion: 43 Resp: 2028
Ion Ratio Lower Upper
43 100
58 21.8 30.0 45.0#

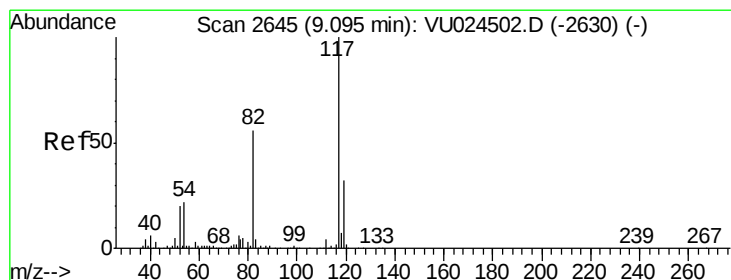
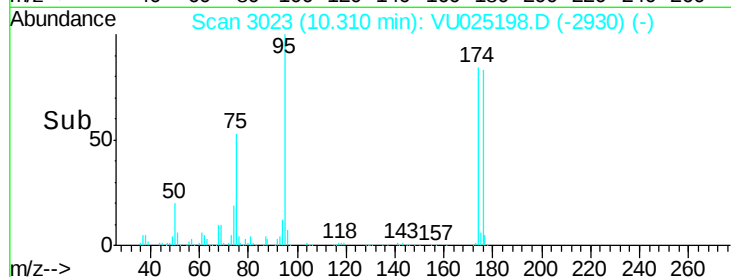
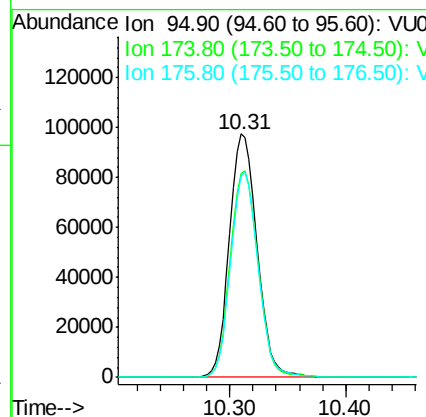
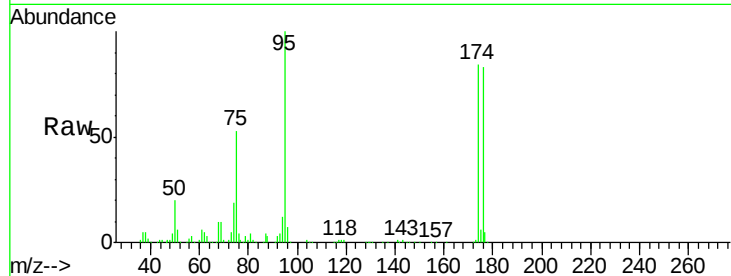




#62
4-Bromofluorobenzene
Concen: 42.954 ug/l
RT: 10.31 min Scan# 3023
Delta R.T. -0.00 min
Lab File: VU025198.D
Acq: 03 Jul 2018 18:50

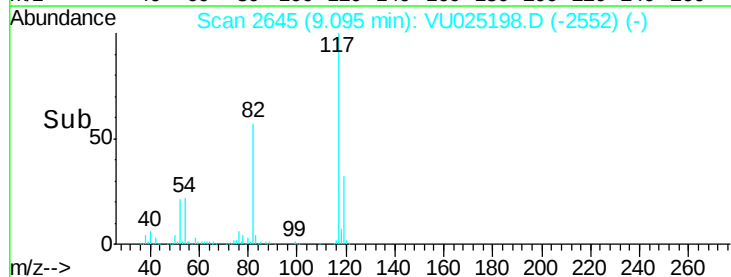
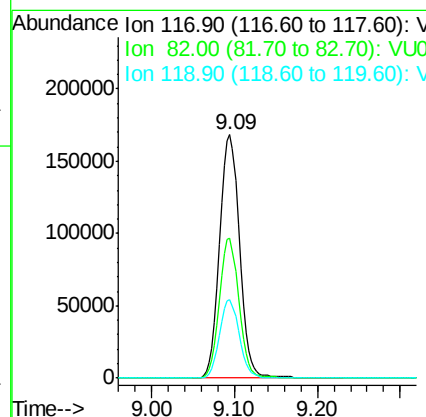
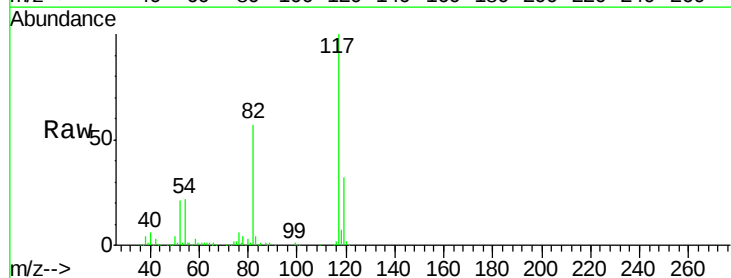
Instrument :
MSVOA_U
ClientSampleId :

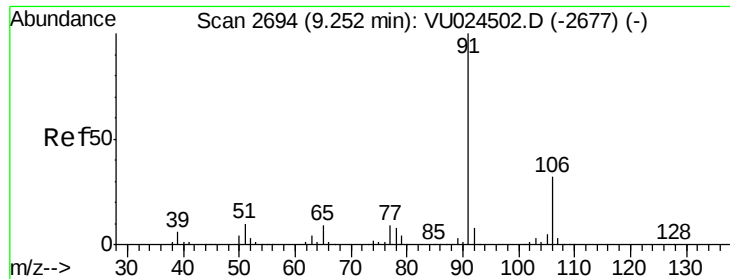
Tot Ion: 95 Resp: 161152
Ion Ratio Lower Upper
95 100
174 85.3 0.0 165.8
176 83.0 0.0 159.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2645
Delta R.T. -0.00 min
Lab File: VU025198.D
Acq: 03 Jul 2018 18:50

Tgt Ion: 117 Resp: 281949
Ion Ratio Lower Upper
117 100
82 57.4 44.3 66.5
119 32.3 25.4 38.2





#67

Ethyl Benzene

Concen: 0.334 ug/l

RT: 9.26 min Scan# 2696

Delta R.T. 0.01 min

Lab File: VU025198.D

Acq: 03 Jul 2018 18:50

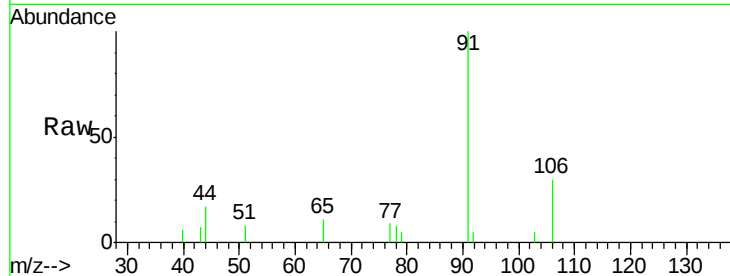
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 91 Resp: 4217

Ion Ratio Lower Upper

91 100

106 30.1 24.2 36.4



Abundance Ion 91.00 (90.70 to 91.70): VU025198.D (-2601) (-)

Ion 106.00 (105.70 to 106.70): VU025198.D (-2601) (-)

9.26

2500

2000

1500

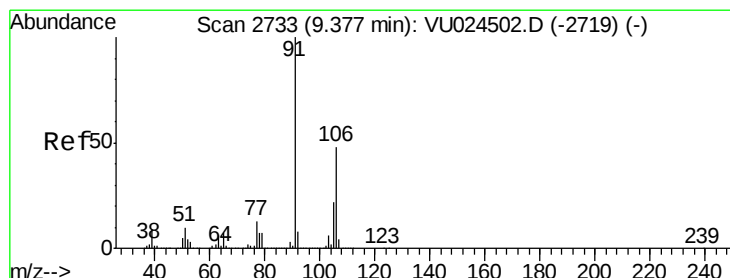
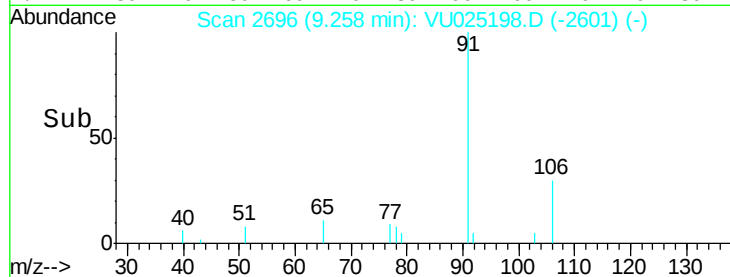
1000

500

0

Time-->

9.20 9.25 9.30



#68

m/p-Xylenes

Concen: 0.297 ug/l

RT: 9.38 min Scan# 2733

Delta R.T. -0.00 min

Lab File: VU025198.D

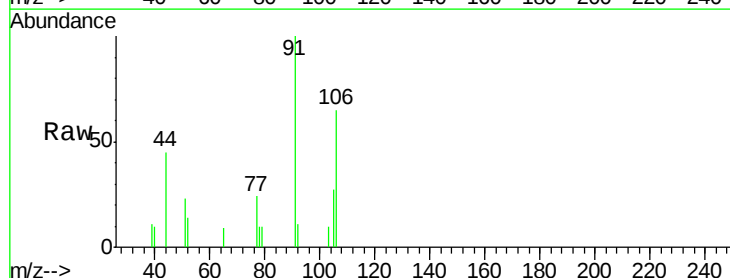
Acq: 03 Jul 2018 18:50

Tgt Ion: 106 Resp: 1440

Ion Ratio Lower Upper

106 100

91 197.4 166.5 249.7



Abundance Ion 106.00 (105.70 to 106.70): VU025198.D (-2640) (-)

Ion 91.00 (90.70 to 91.70): VU025198.D (-2640) (-)

9.38

1500

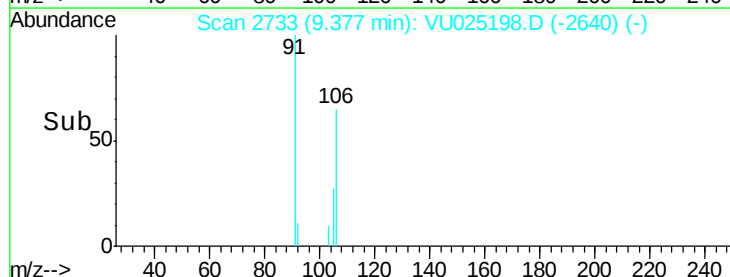
1000

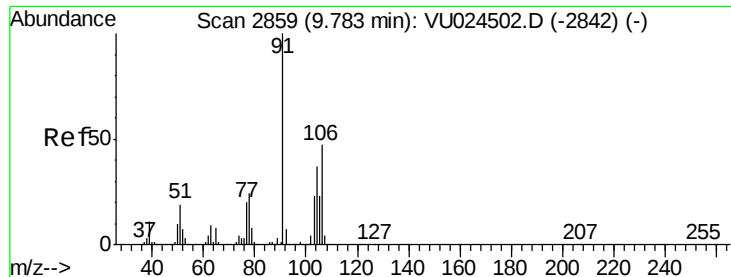
500

0

Time-->

9.35 9.40

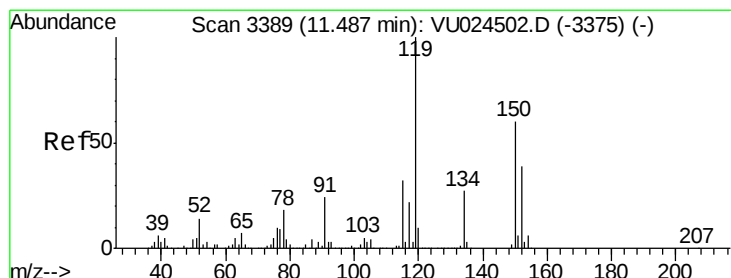
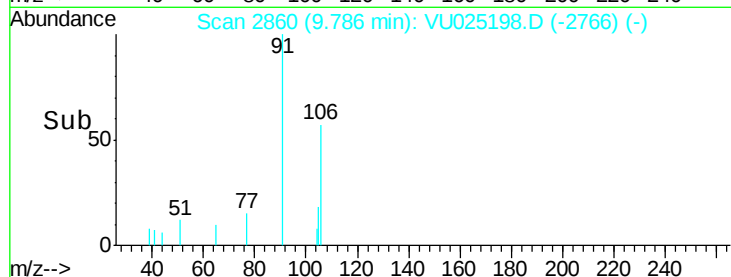
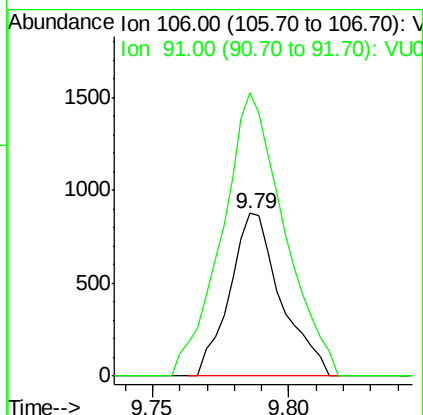
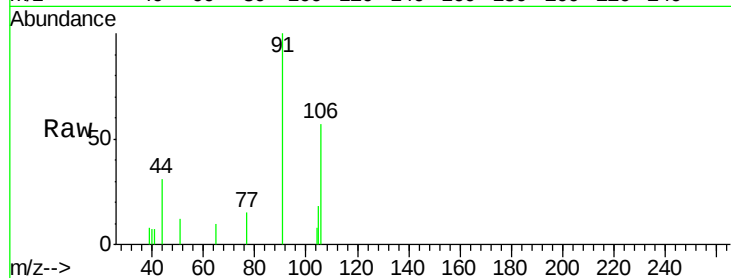




#69
o-Xylene
Concen: 0.238 ug/l
RT: 9.79 min Scan# 2860
Delta R.T. 0.00 min
Lab File: VU025198.D
Acq: 03 Jul 2018 18:50

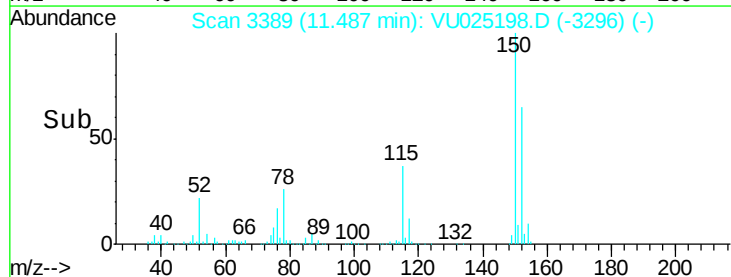
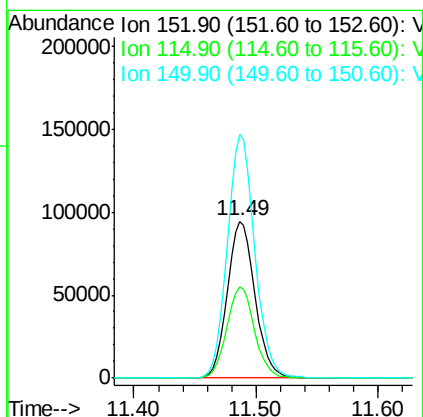
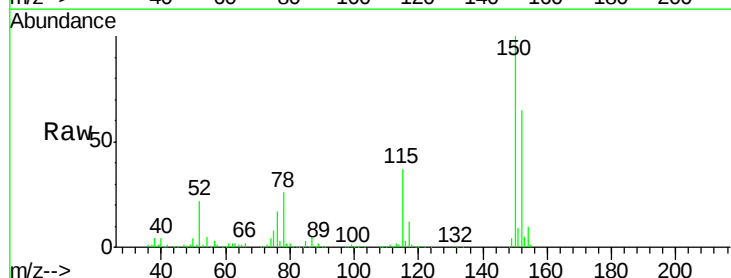
Instrument :
MSVOA_U
ClientSampleId :

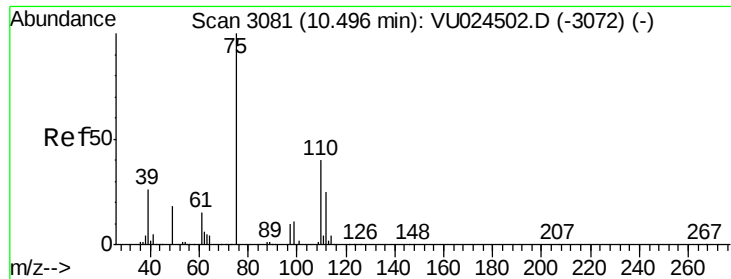
Tot Ion:106 Resp: 1141
Ion Ratio Lower Upper
106 100
91 210.7 110.7 331.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.49 min Scan# 3389
Delta R.T. -0.00 min
Lab File: VU025198.D
Acq: 03 Jul 2018 18:50

Tgt Ion:152 Resp: 150005
Ion Ratio Lower Upper
152 100
115 58.4 43.0 129.0
150 154.3 0.0 354.0





#76

1,2,3-Trichloropropane

Concen: 25.778 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU025198.D

Acq: 03 Jul 2018 18:50

Instrument :

MSVOA_U

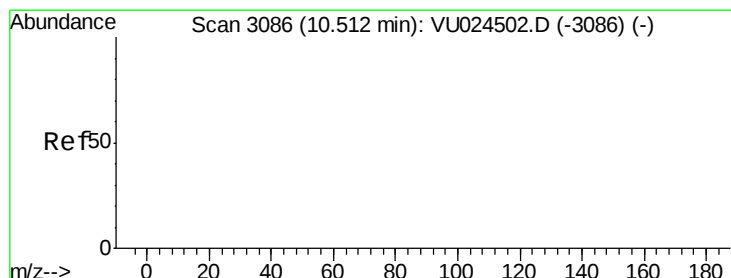
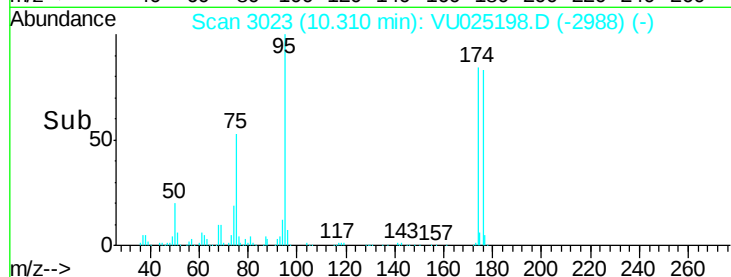
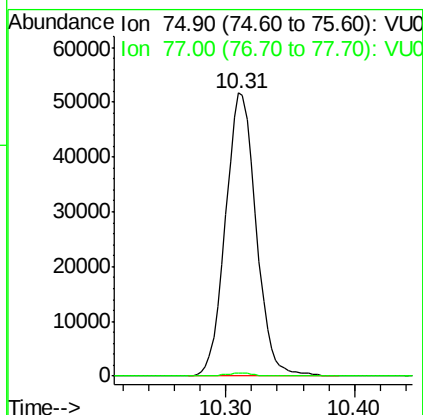
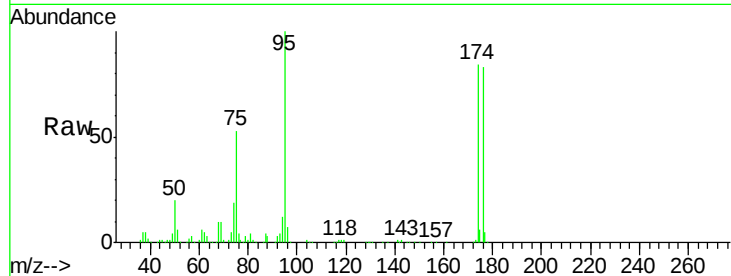
ClientSampleId :

Tot Ion: 75 Resp: 85135

Ion Ratio Lower Upper

75 100

77 1.0 20.9 62.7#



#81

trans-1,4-Dichloro-2-butene

Concen: 59.662 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.20 min

Lab File: VU025198.D

Acq: 03 Jul 2018 18:50

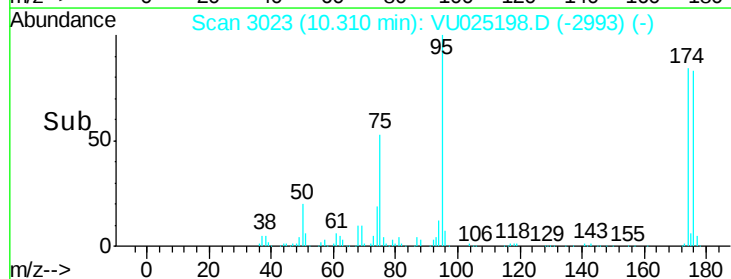
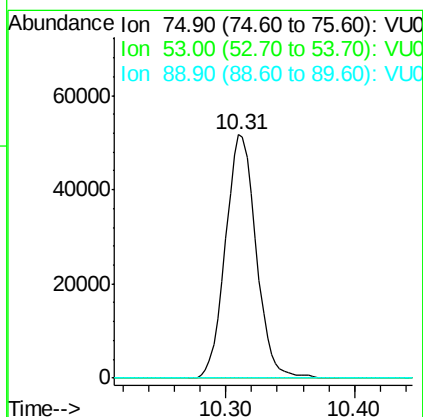
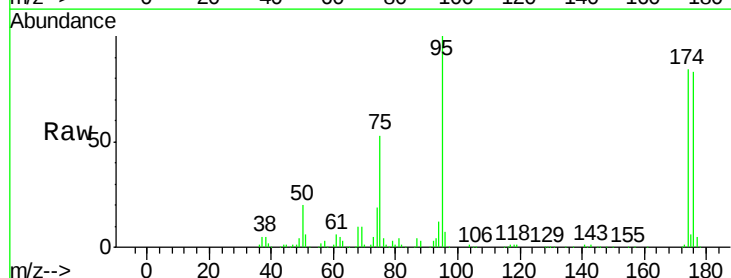
Tgt Ion: 75 Resp: 85135

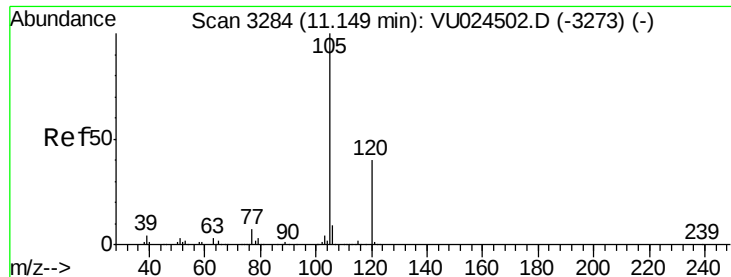
Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

89 0.0 0.0 0.0





#84

1,2,4-Trimethylbenzene

Concen: 0.481 ug/l

RT: 11.16 min Scan# 3286

Delta R.T. 0.01 min

Lab File: VU025198.D

Acq: 03 Jul 2018 18:50

Instrument :

MSVOA_U

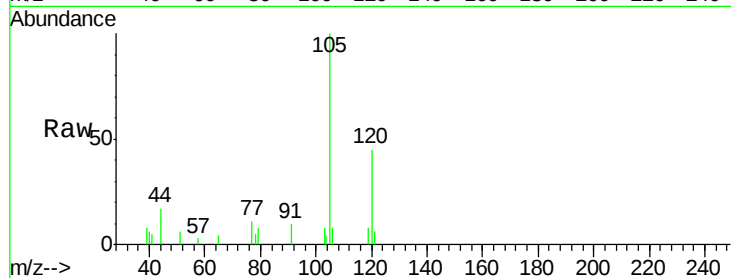
ClientSampleId :

Tot Ion:105 Resp: 4898

Ion Ratio Lower Upper

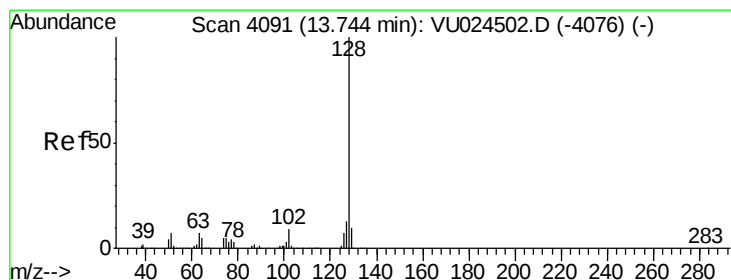
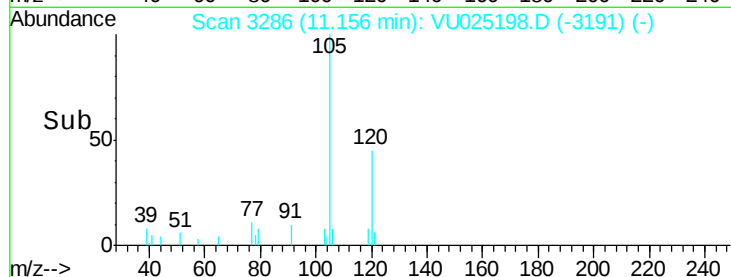
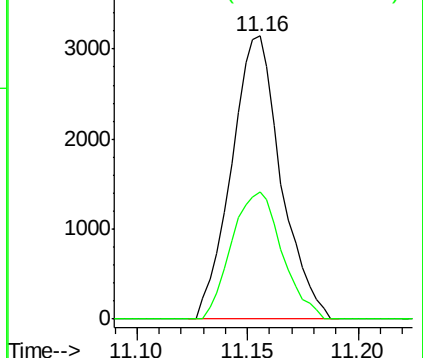
105 100

120 45.7 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: 9.053 ug/l

RT: 13.75 min Scan# 4092

Delta R.T. 0.00 min

Lab File: VU025198.D

Acq: 03 Jul 2018 18:50

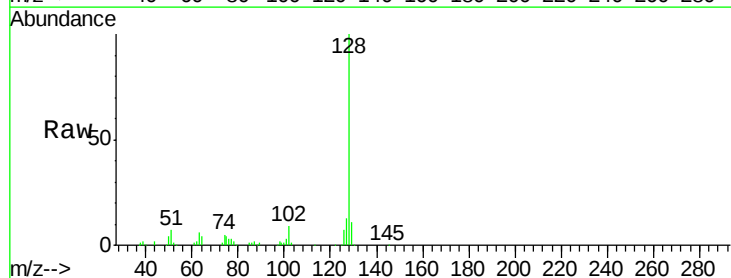
Tgt Ion:128 Resp: 93630

Ion Ratio Lower Upper

128 100

127 12.5 10.6 16.0

129 11.2 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

