

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU062318\
 Data File : VU024840.D
 Acq On : 22 Jun 2018 17:57
 Operator : MD/SY
 Sample : VU0623WBL01
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jun 23 02:14:01 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	224231	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	340419	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	313910	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	166783	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	163250	44.60	ug/l	0.00
Spiked Amount			Recovery	=	89.20%	
35) Dibromofluoromethane	4.89	113	133629	47.30	ug/l	0.00
Spiked Amount			Recovery	=	94.60%	
50) Toluene-d8	7.57	98	496425	48.17	ug/l	0.00
Spiked Amount			Recovery	=	96.34%	
62) 4-Bromofluorobenzene	10.31	95	180893	44.21	ug/l	0.00
Spiked Amount			Recovery	=	88.42%	

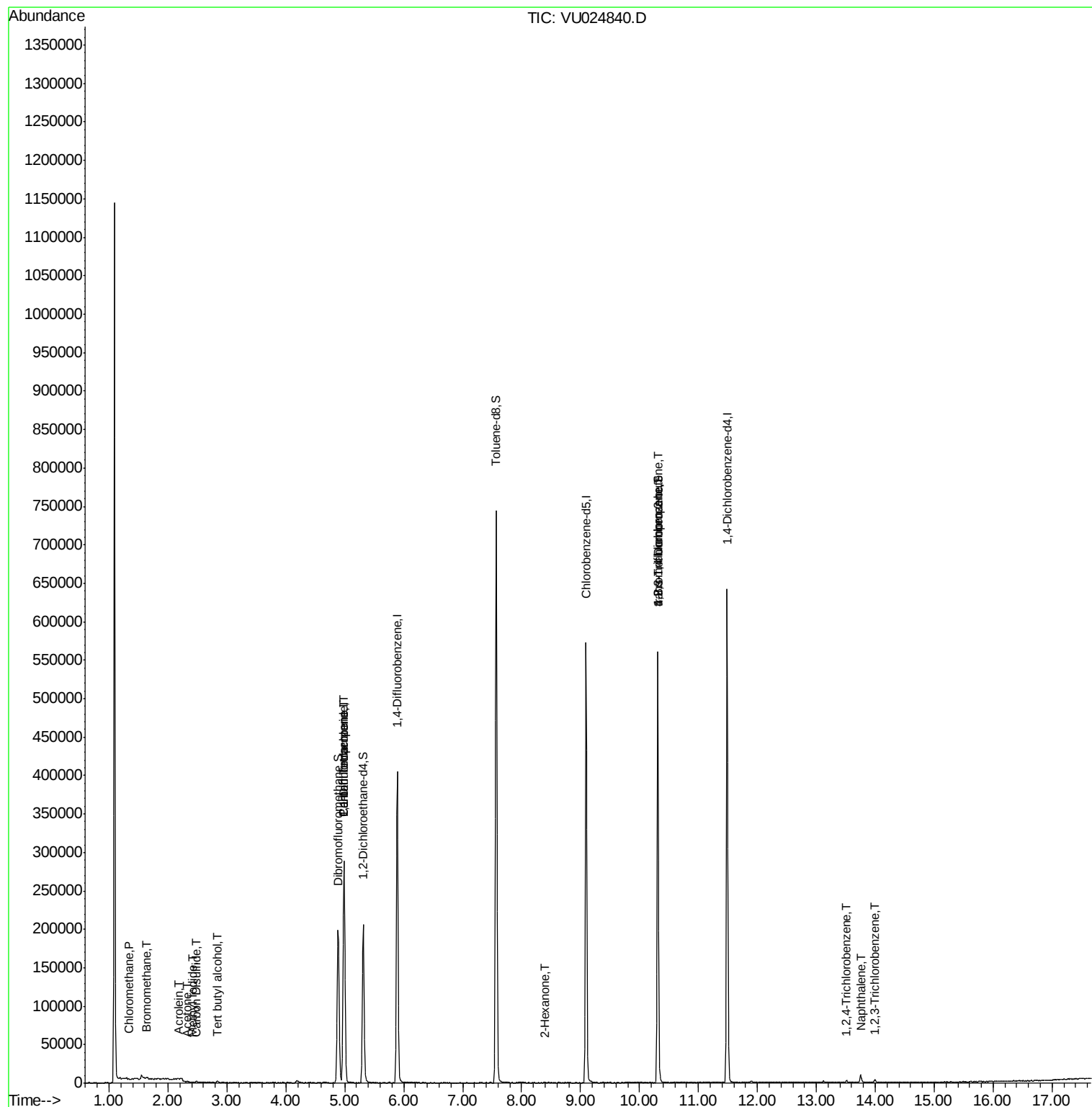
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	1285	0.45	ug/l	97
5) Bromomethane	1.63	94	1178	0.82	ug/l	# 80
6) Chloroethane	1.71	64	41	Below Cal	#	43
10) Methyl Iodide	2.41	142	216	5.37	ug/l	# 63
11) Tert butyl alcohol	2.83	59	1270	1.43	ug/l	# 82
13) Acrolein	2.19	56	155	0.33	ug/l	# 13
16) Acetone	2.32	43	591	0.30	ug/l	# 81
17) Carbon Disulfide	2.48	76	1640	0.20	ug/l	97
31) Cyclohexane	4.99	56	4504	Below Cal	#	1
36) 1,1-Dichloropropene	4.99	75	15783	3.95	ug/l	# 51
38) Carbon Tetrachloride	4.99	117	21441	4.87	ug/l	# 16
59) 2-Hexanone	8.38	43	826	0.21	ug/l	# 29
76) 1,2,3-Trichloropropane	10.31	75	92015	25.06	ug/l	# 36
81) trans-1,4-Dichloro-2-buten	10.31	75	92015	58.00	ug/l	# 100
93) 1,2,4-Trichlorobenzene	13.51	180	1220	0.33	ug/l	93
95) Naphthalene	13.75	128	10215	1.50	ug/l	97
96) 1,2,3-Trichlorobenzene	13.99	180	1558	0.42	ug/l	89

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\82U061318W.M
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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.99 min Scan# 1367

Delta R.T. -0.00 min

Lab File: VU024840.D

Acq: 22 Jun 2018 17:57

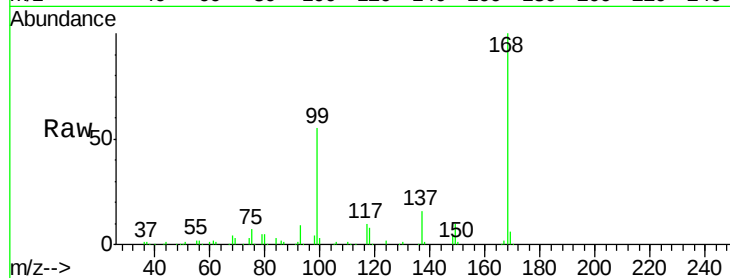
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:168 Resp: 224231

Ion Ratio Lower Upper

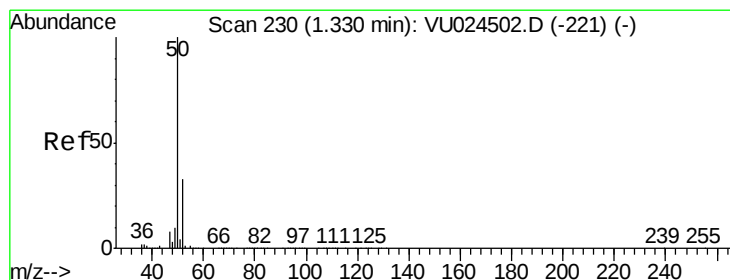
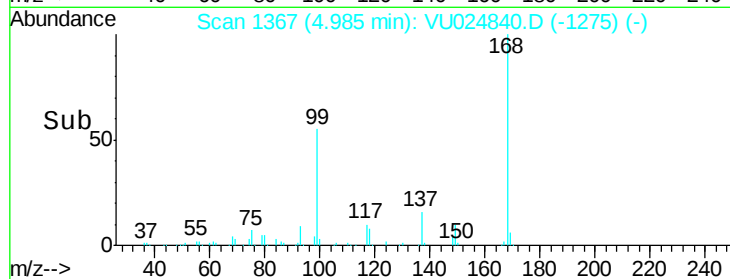
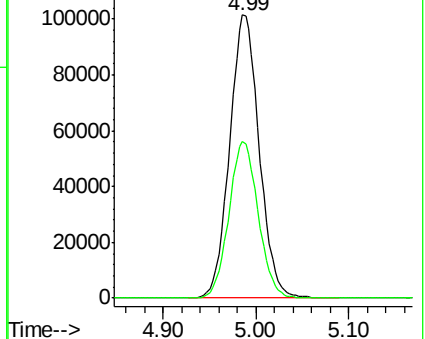
168 100

99 55.2 43.2 64.8



Abundance Ion 167.90 (167.60 to 168.60): VU024840.D (-1275) (-)

Ion 98.90 (98.60 to 99.60): VU024840.D (-1275) (-)



#3

Chloromethane

Concen: 0.45 ug/l

RT: 1.33 min Scan# 230

Delta R.T. -0.00 min

Lab File: VU024840.D

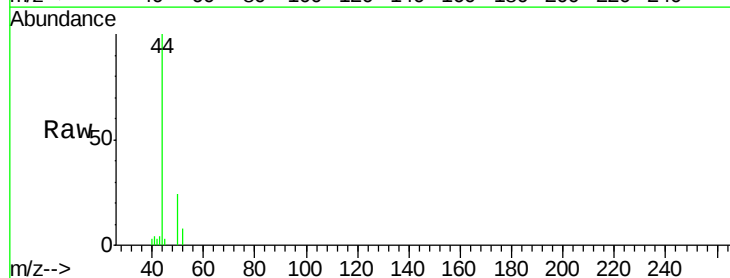
Acq: 22 Jun 2018 17:57

Tgt Ion: 50 Resp: 1285

Ion Ratio Lower Upper

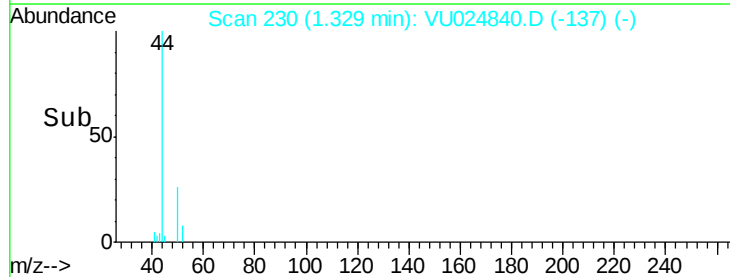
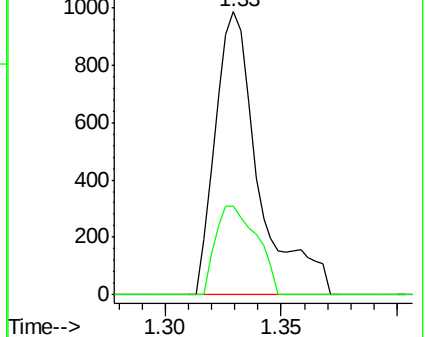
50 100

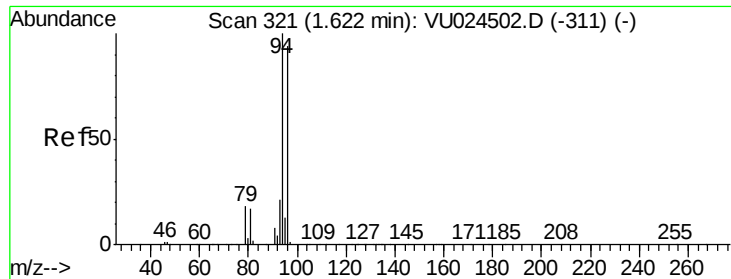
52 31.4 26.4 39.6



Abundance Ion 49.90 (49.60 to 50.60): VU024840.D (-137) (-)

Ion 51.90 (51.60 to 52.60): VU024840.D (-137) (-)





#5

Bromomethane

Concen: 0.82 ug/l

RT: 1.63 min Scan# 325

Delta R.T. 0.01 min

Lab File: VU024840.D

Acq: 22 Jun 2018 17:57

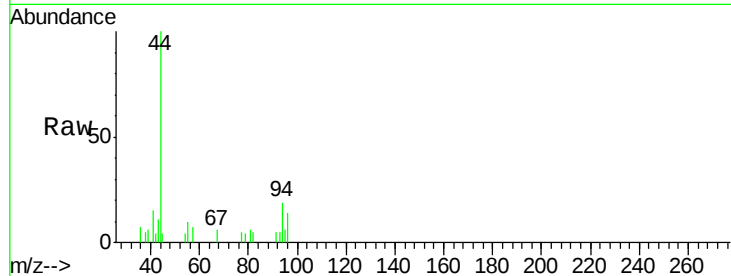
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 94 Resp: 1178

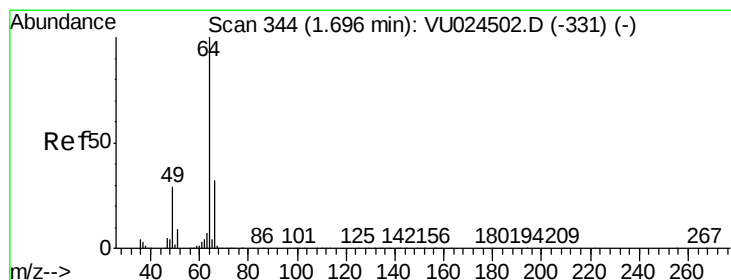
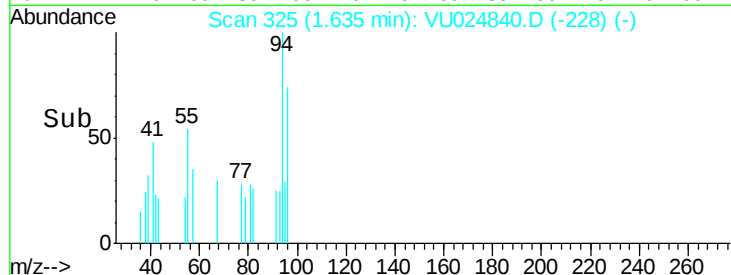
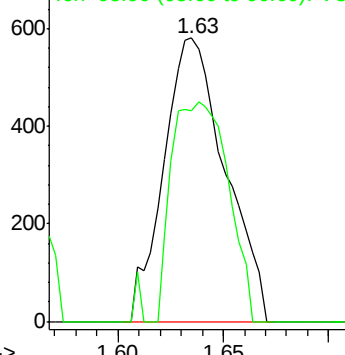
Ion Ratio Lower Upper

94 100

96 74.4 74.5 111.7#



Abundance Ion 93.90 (93.60 to 94.60): VU0
Ion 95.90 (95.60 to 96.60): VU0



#6

Chloroethane

Concen: Below Cal

RT: 1.71 min Scan# 347

Delta R.T. 0.01 min

Lab File: VU024840.D

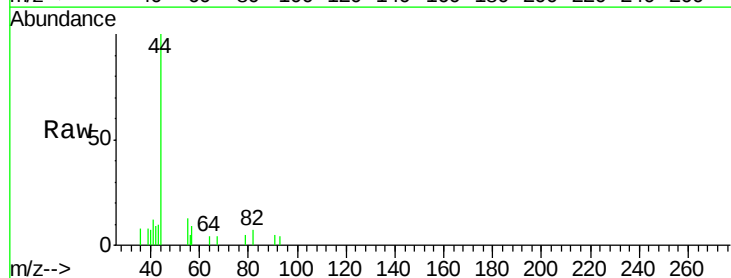
Acq: 22 Jun 2018 17:57

Tgt Ion: 64 Resp: 41

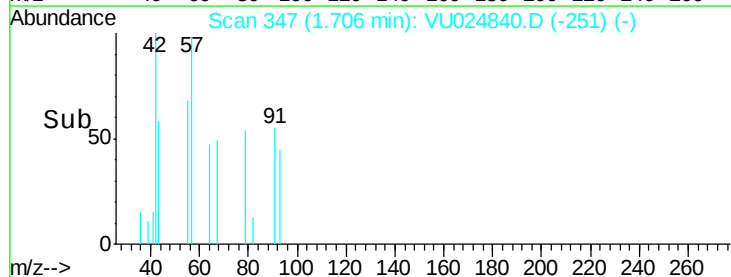
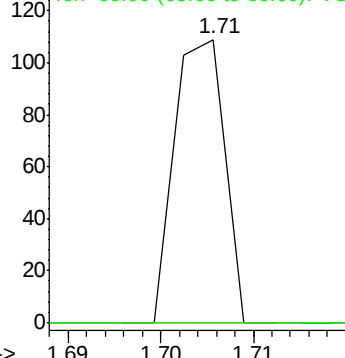
Ion Ratio Lower Upper

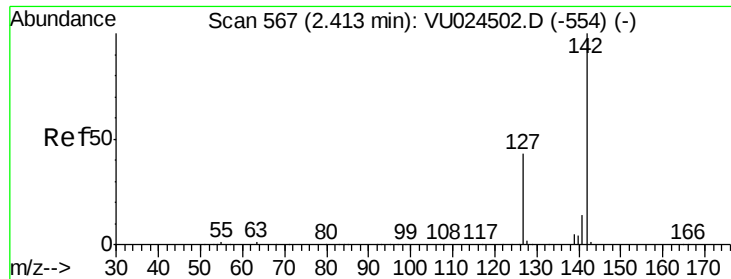
64 100

66 0.0 25.5 38.3#



Abundance Ion 63.90 (63.60 to 64.60): VU0
Ion 65.90 (65.60 to 66.60): VU0

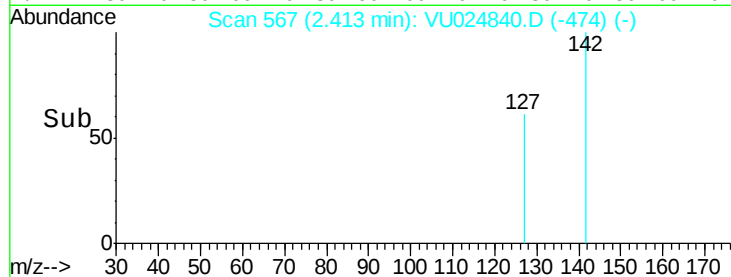
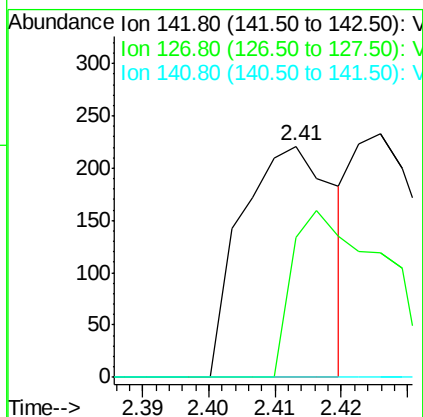
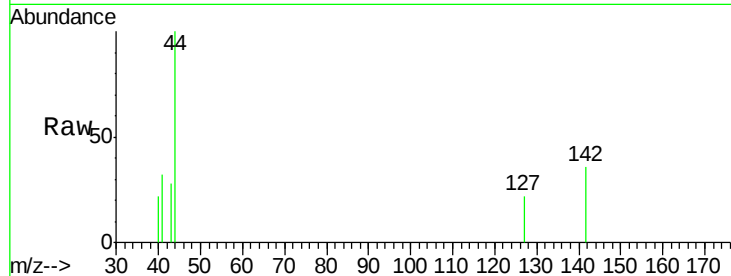




#10
Methvl Iodide
Concen: 5.37 ug/l
RT: 2.41 min Scan# 567
Delta R.T. 0.00 min
Lab File: VU024840.D
Acq: 22 Jun 2018 17:57

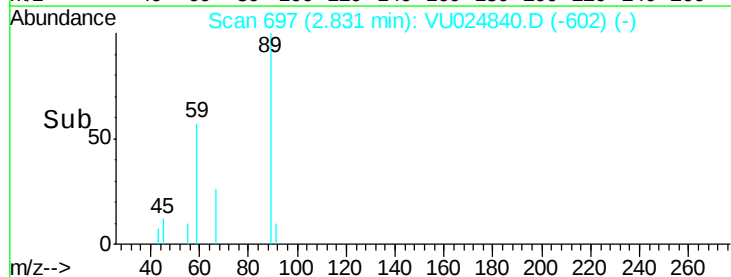
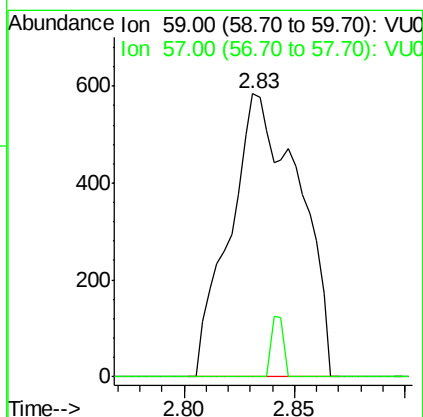
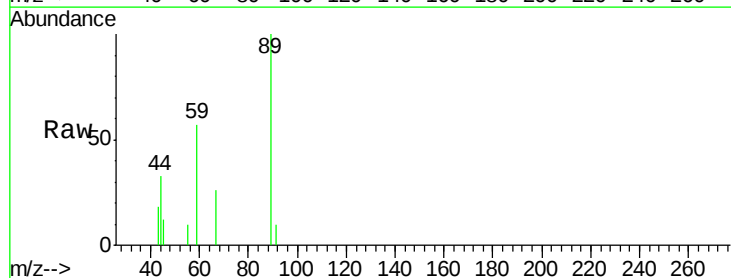
Instrument :
MSVOA_U
ClientSampled :

Tot Ion:142 Resp: 216
Ion Ratio Lower Upper
142 100
127 69.0 35.6 53.4#
141 0.0 11.7 17.5#



#11
Tert butyl alcohol
Concen: 1.43 ug/l
RT: 2.83 min Scan# 697
Delta R.T. 0.01 min
Lab File: VU024840.D
Acq: 22 Jun 2018 17:57

Tgt Ion: 59 Resp: 1270
Ion Ratio Lower Upper
59 100
57 3.8 8.5 12.7#

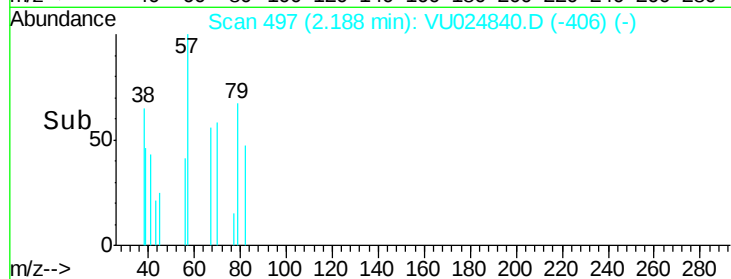
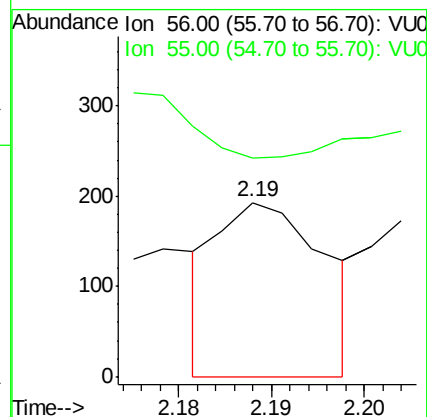
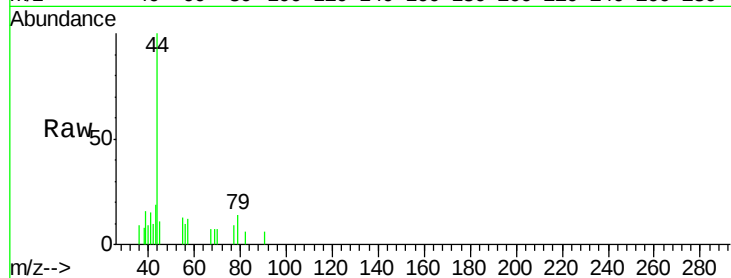




#13
Acrolein
Concen: 0.33 ug/l
RT: 2.19 min Scan# 497
Delta R.T. -0.01 min
Lab File: VU024840.D
Acq: 22 Jun 2018 17:57

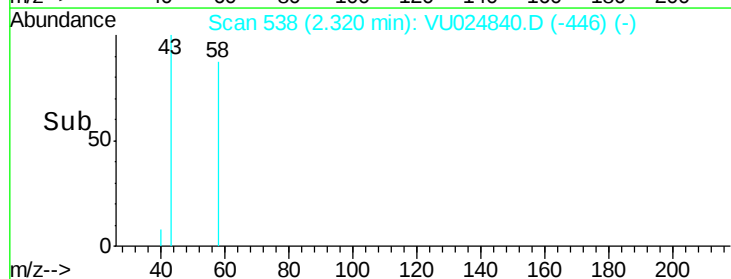
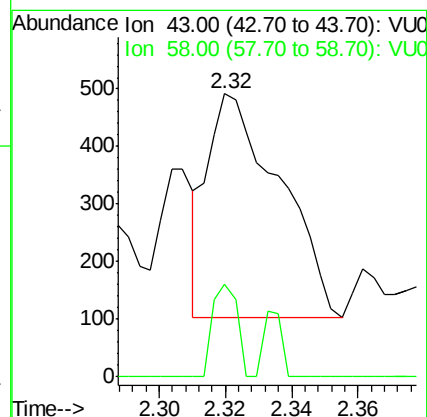
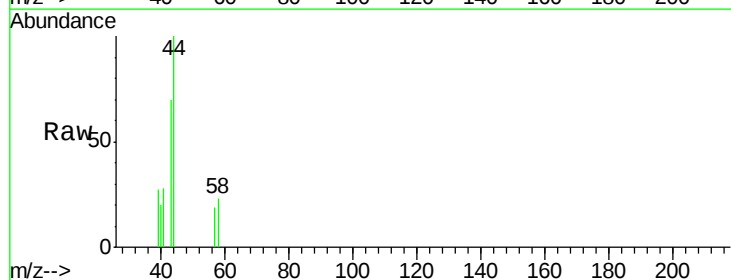
Instrument :
MSVOA_U
ClientSampleId :

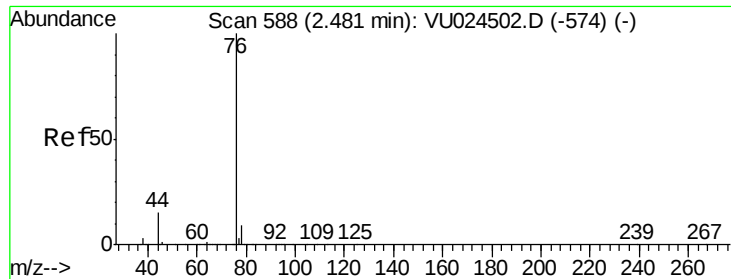
Tot Ion: 56 Resp: 155
Ion Ratio Lower Upper
56 100
55 0.0 58.4 87.6#



#16
Acetone
Concen: 0.30 ug/l
RT: 2.32 min Scan# 538
Delta R.T. -0.00 min
Lab File: VU024840.D
Acq: 22 Jun 2018 17:57

Tgt Ion: 43 Resp: 591
Ion Ratio Lower Upper
43 100
58 41.0 24.4 36.6#





#17

Carbon Disulfide

Concen: 0.20 ug/l

RT: 2.48 min Scan# 587

Delta R.T. -0.00 min

Lab File: VU024840.D

Acq: 22 Jun 2018 17:57

Instrument :

MSVOA_U

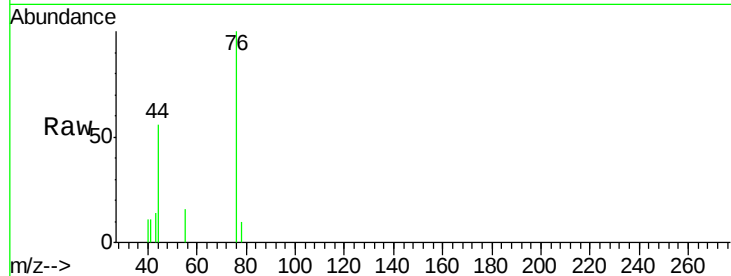
ClientSampleId :

Tot Ion: 76 Resp: 1640

Ion Ratio Lower Upper

76 100

78 10.2 7.1 10.7



Abundance Ion 75.90 (75.60 to 76.60): VU024840.D (-495) (-)

Ion 77.90 (77.60 to 78.60): VU024840.D (-495) (-)

2.48

1200

1000

800

600

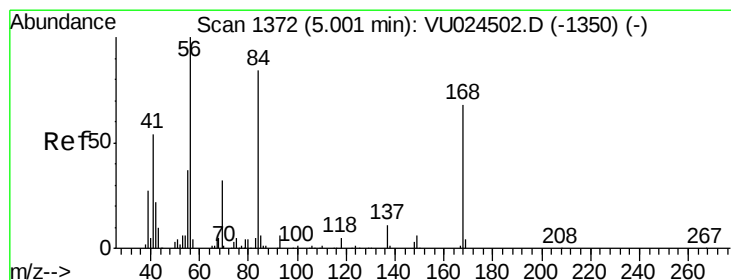
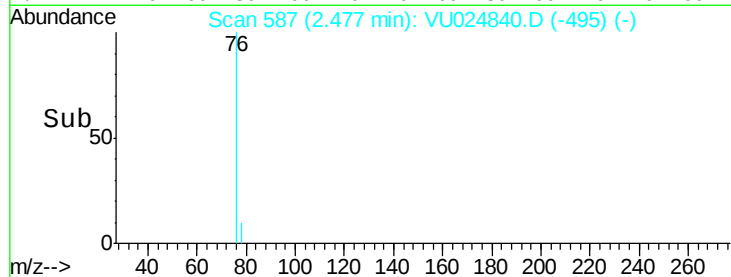
400

200

0

Time-->

2.45 2.50



#31

Cyclohexane

Concen: Below Cal

RT: 4.99 min Scan# 1368

Delta R.T. -0.01 min

Lab File: VU024840.D

Acq: 22 Jun 2018 17:57

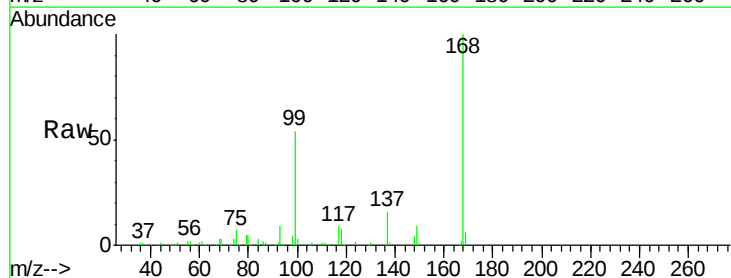
Tgt Ion: 56 Resp: 4504

Ion Ratio Lower Upper

56 100

69 176.0 24.8 37.2#

84 152.4 65.2 97.8#



Abundance Ion 56.00 (55.70 to 56.70): VU024840.D (-1279) (-)

Ion 69.00 (68.70 to 69.70): VU024840.D (-1279) (-)

Ion 84.00 (83.70 to 84.70): VU024840.D (-1279) (-)

4000

3000

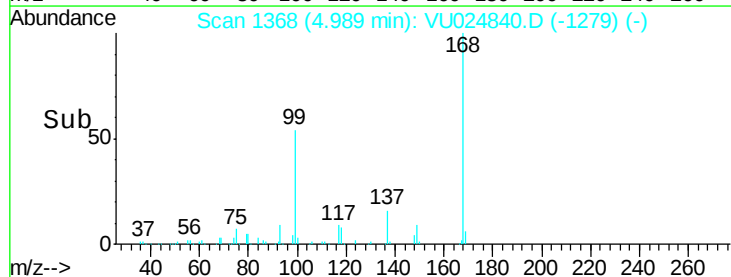
2000

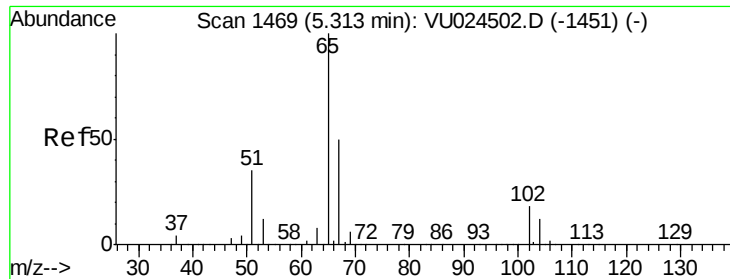
1000

0

Time-->

4.95 5.00 5.05

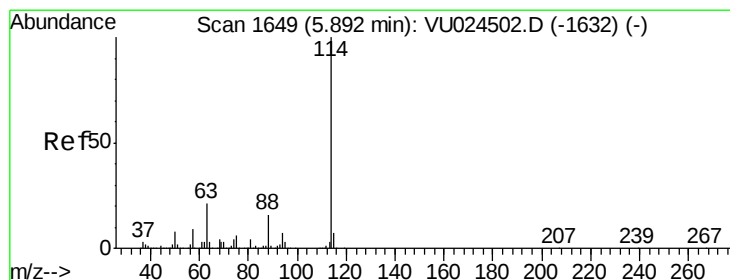
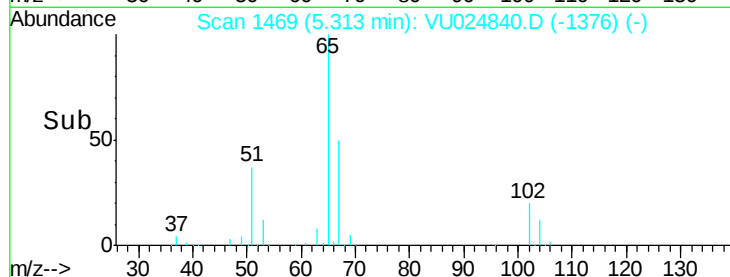
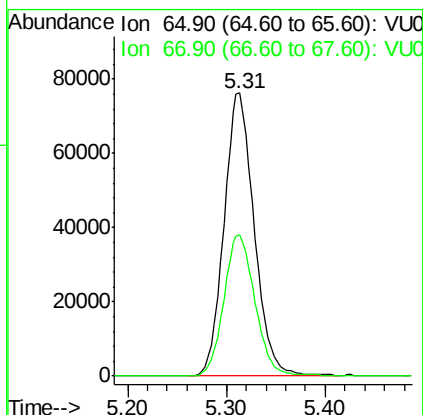
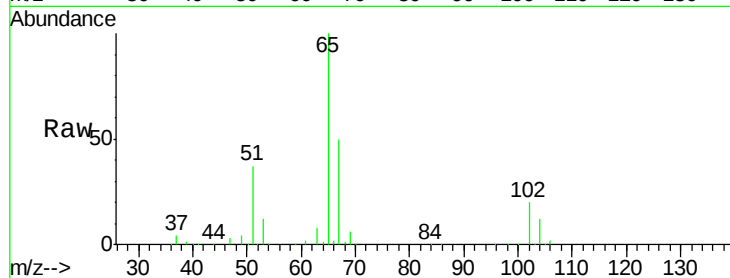




#33
 1,2-Dichloroethane-d4
 Concen: 44.60 ug/l
 RT: 5.31 min Scan# 1469
 Delta R.T. -0.00 min
 Lab File: VU024840.D
 Acq: 22 Jun 2018 17:57

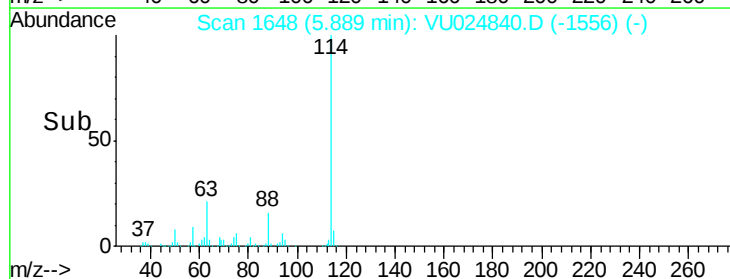
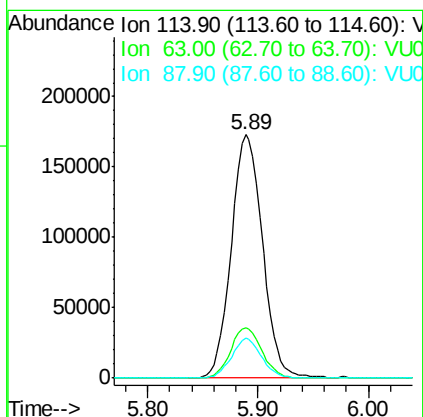
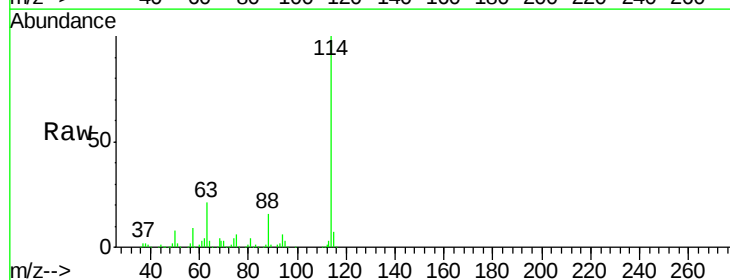
Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 65 Resp: 163250
 Ion Ratio Lower Upper
 65 100
 67 51.2 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: VU024840.D
 Acq: 22 Jun 2018 17:57

Tgt Ion: 114 Resp: 340419
 Ion Ratio Lower Upper
 114 100
 63 20.6 0.0 45.4
 88 16.3 0.0 31.0

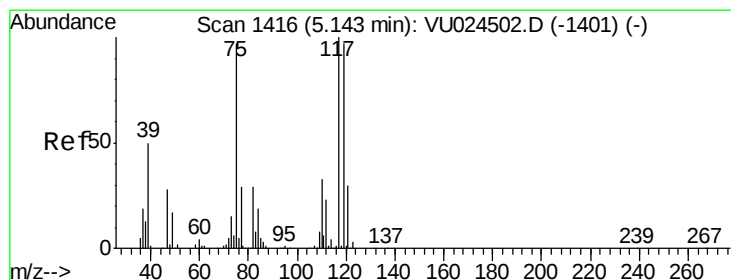
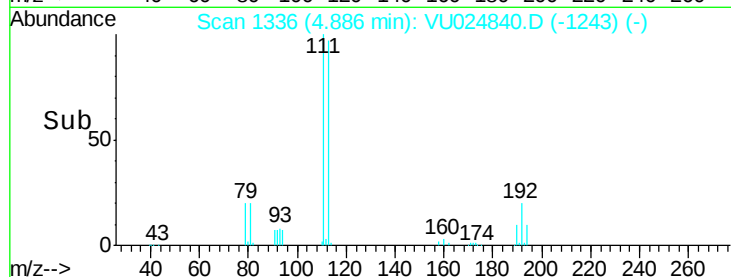
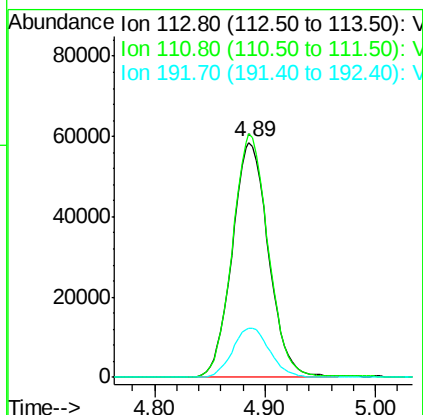
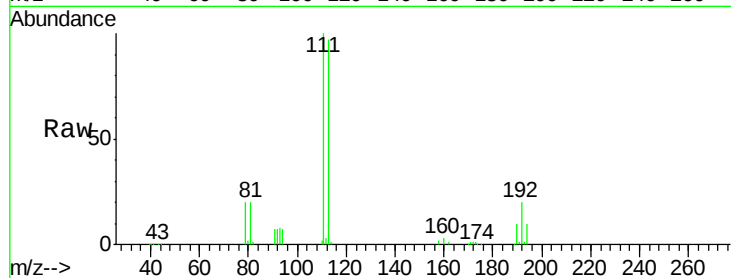




#35
 Dibromofluoromethane
 Concen: 47.30 ug/l
 RT: 4.89 min Scan# 1336
 Delta R.T. -0.00 min
 Lab File: VU024840.D
 Acq: 22 Jun 2018 17:57

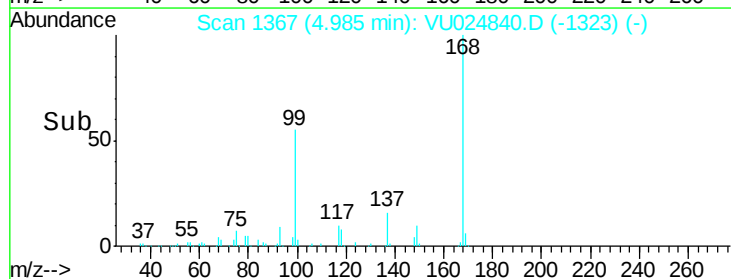
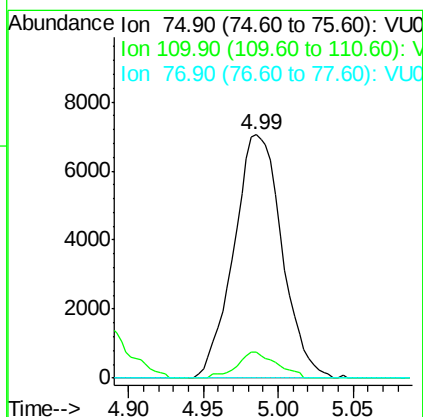
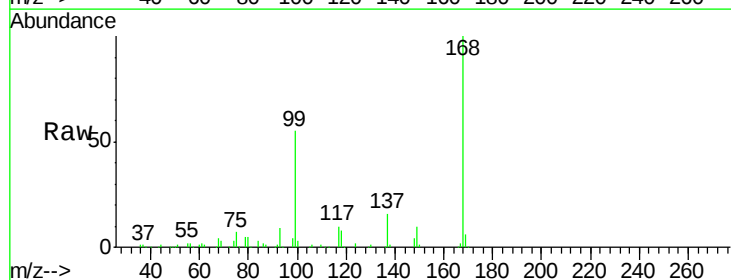
Instrument :
 MSVOA_U
 ClientSampleId :

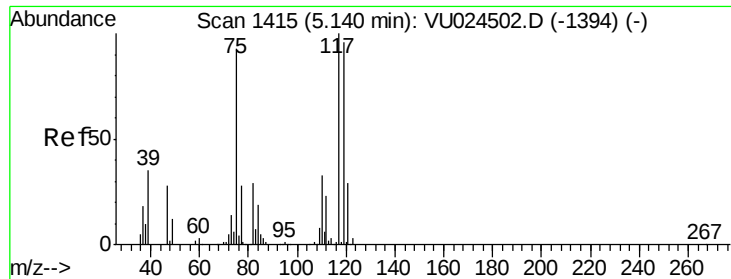
Tot Ion:113 Resp: 133629
 Ion Ratio Lower Upper
 113 100
 111 101.6 82.2 123.4
 192 21.3 16.2 24.4



#36
 1,1-Dichloropropene
 Concen: 3.95 ug/l
 RT: 4.99 min Scan# 1367
 Delta R.T. -0.16 min
 Lab File: VU024840.D
 Acq: 22 Jun 2018 17:57

Tgt Ion: 75 Resp: 15783
 Ion Ratio Lower Upper
 75 100
 110 8.8 17.0 50.9#
 77 0.0 24.2 36.4#





#38

Carbon Tetrachloride

Concen: 4.87 ug/l

RT: 4.99 min Scan# 1367

Delta R.T. -0.15 min

Lab File: VU024840.D

Acq: 22 Jun 2018 17:57

Instrument :

MSVOA_U

ClientSampleId :

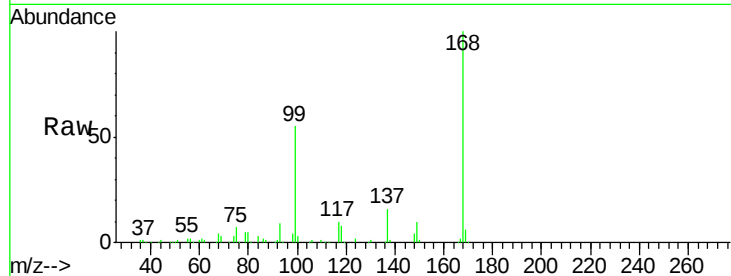
Tot Ion:117 Resp: 21441

Ion Ratio Lower Upper

117 100

119 4.4 76.1 114.1#

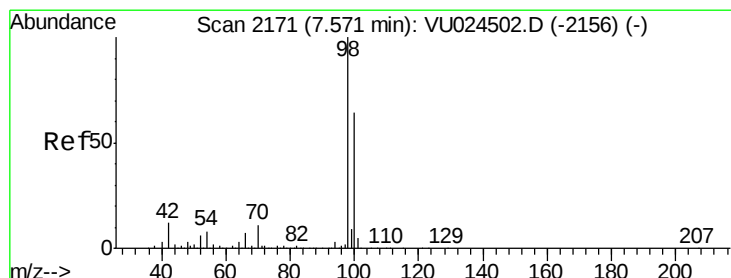
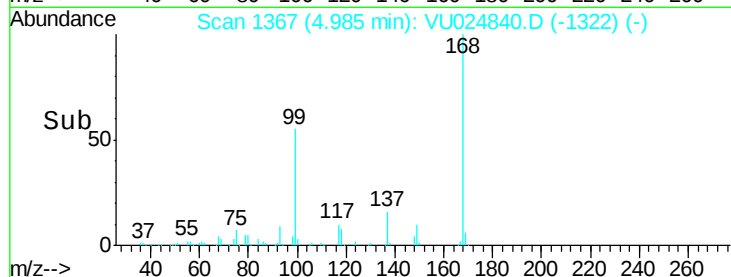
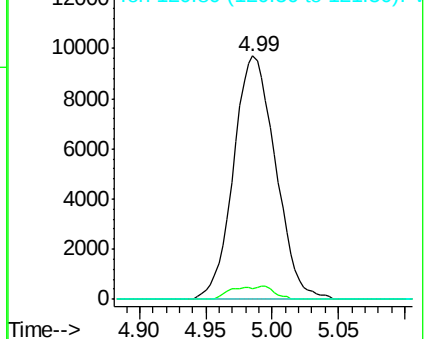
121 0.0 23.7 35.5#



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



#50

Toluene-d8

Concen: 48.17 ug/l

RT: 7.57 min Scan# 2170

Delta R.T. -0.00 min

Lab File: VU024840.D

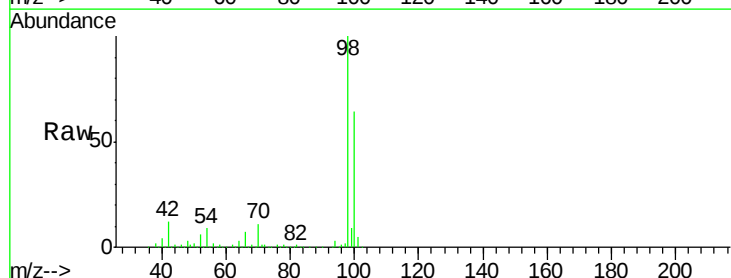
Acq: 22 Jun 2018 17:57

Tgt Ion: 98 Resp: 496425

Ion Ratio Lower Upper

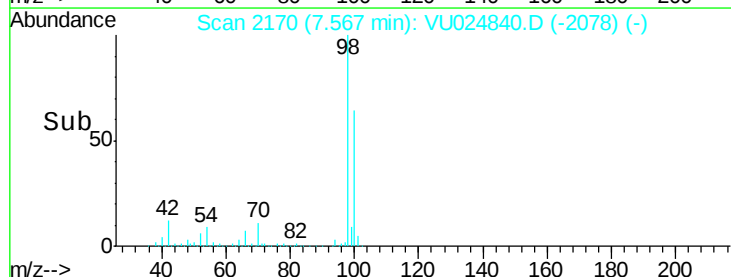
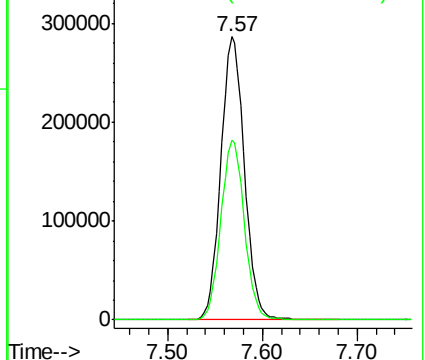
98 100

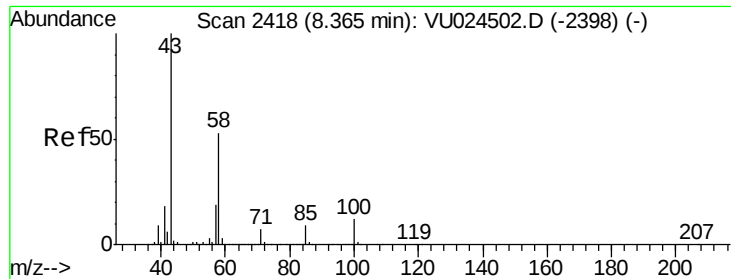
100 63.4 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VU0

Ion 100.00 (99.70 to 100.70): VU

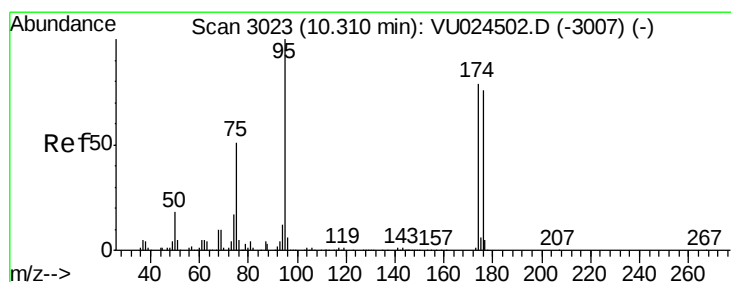
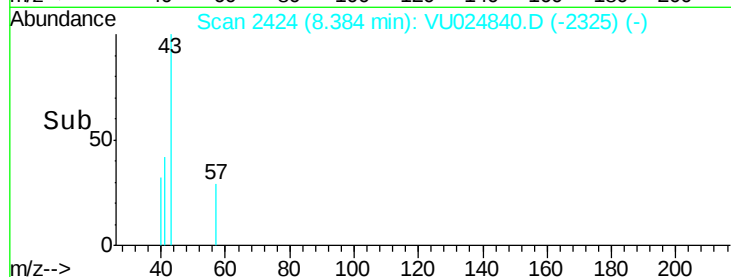
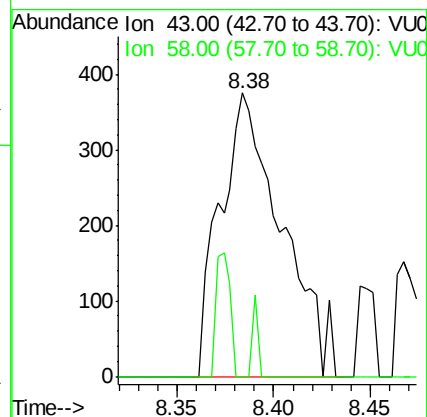
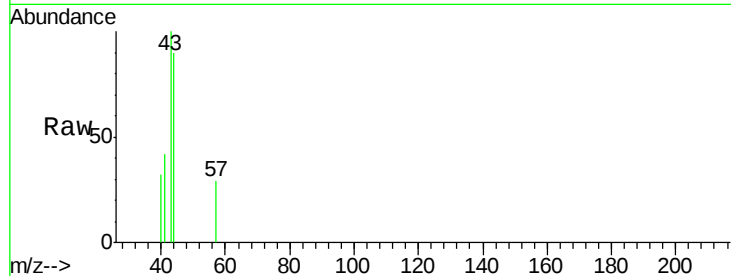




#59
2-Hexanone
Concen: 0.21 ug/l
RT: 8.38 min Scan# 2424
Delta R.T. 0.02 min
Lab File: VU024840.D
Acq: 22 Jun 2018 17:57

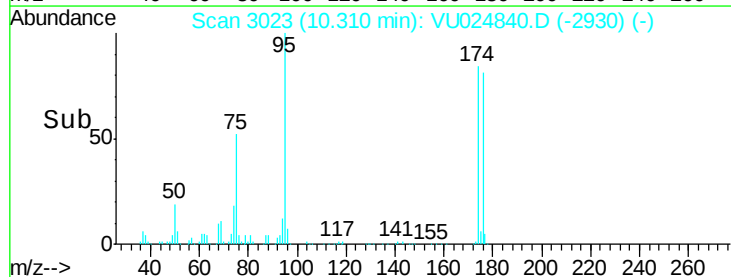
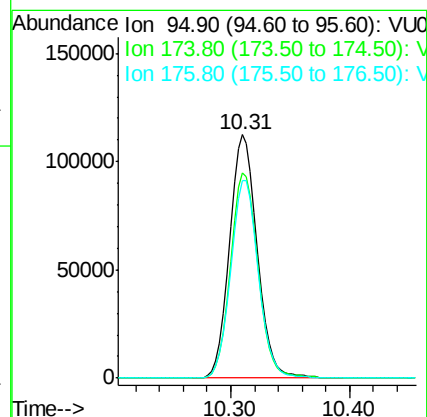
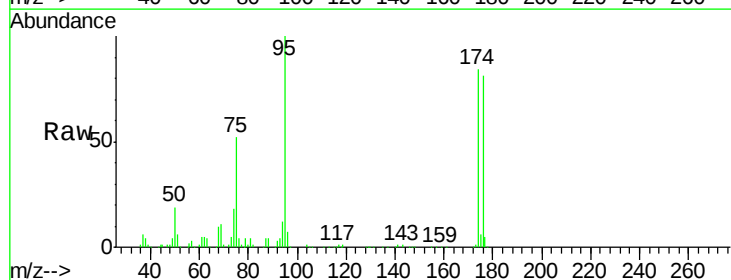
Instrument :
MSVOA_U
ClientSampleId :

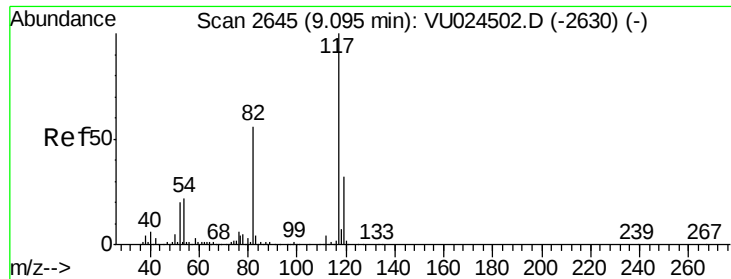
Tot Ion: 43 Resp: 826
Ion Ratio Lower Upper
43 100
58 2.5 26.4 79.0#



#62
4-Bromofluorobenzene
Concen: 44.21 ug/l
RT: 10.31 min Scan# 3023
Delta R.T. -0.00 min
Lab File: VU024840.D
Acq: 22 Jun 2018 17:57

Tgt Ion: 95 Resp: 180893
Ion Ratio Lower Upper
95 100
174 84.2 0.0 165.8
176 81.2 0.0 159.4

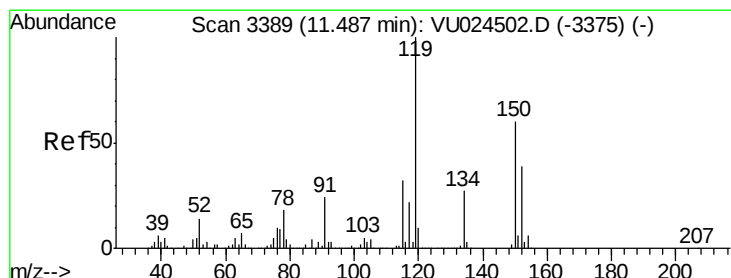
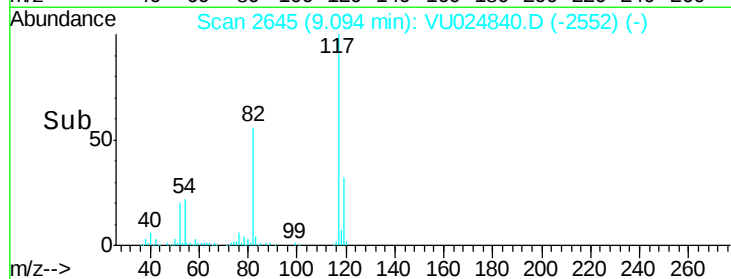
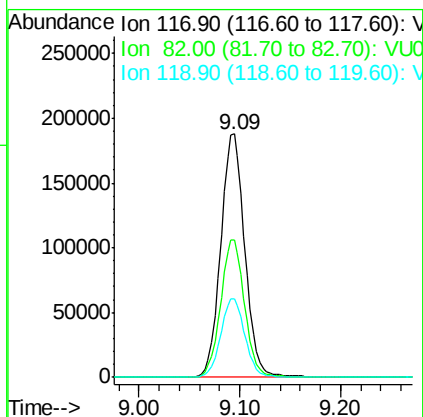
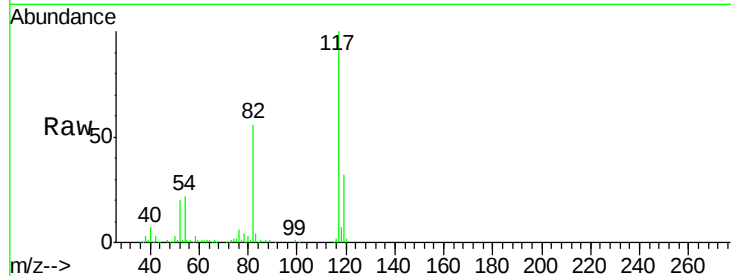




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.09 min Scan# 2645
Delta R.T. -0.00 min
Lab File: VU024840.D
Acq: 22 Jun 2018 17:57

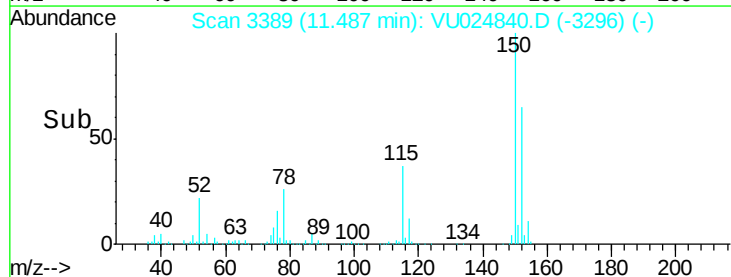
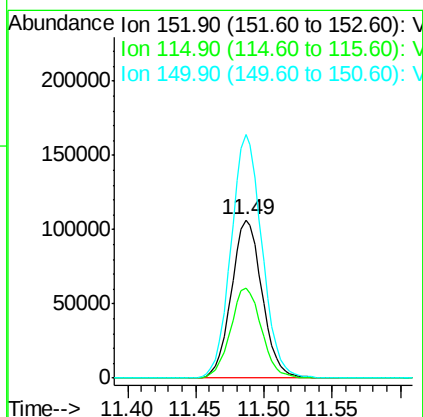
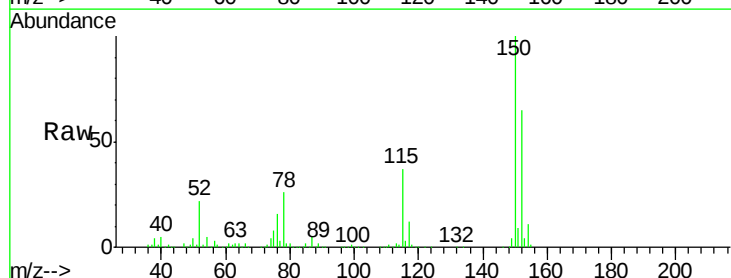
Instrument :
MSVOA_U
ClientSampleId :

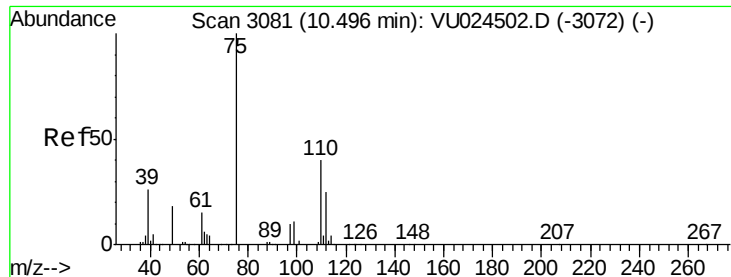
Tot Ion	Ratio	Lower	Upper
117	100		
82	56.3	44.3	66.5
119	32.3	25.4	38.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 11.49 min Scan# 3389
Delta R.T. -0.00 min
Lab File: VU024840.D
Acq: 22 Jun 2018 17:57

Tgt Ion	Ratio	Lower	Upper
152	100		
115	57.5	43.0	129.0
150	155.1	0.0	354.0





#76

1,2,3-Trichloropropane

Concen: 25.06 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU024840.D

Acq: 22 Jun 2018 17:57

Instrument :

MSVOA_U

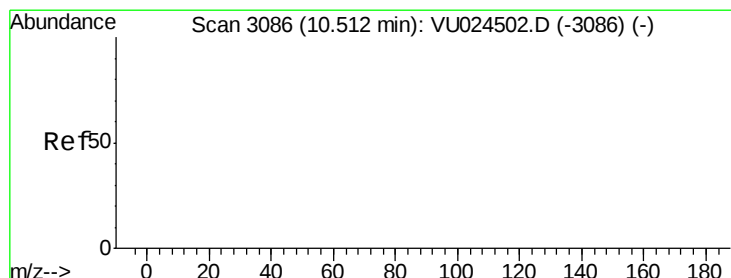
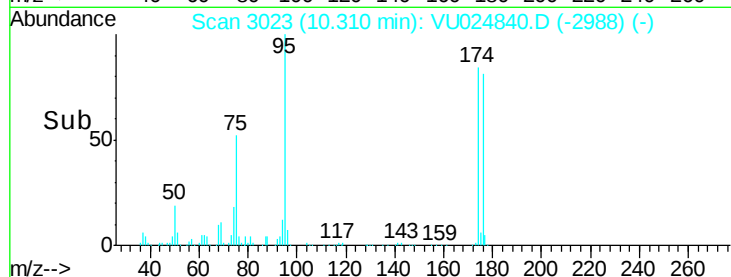
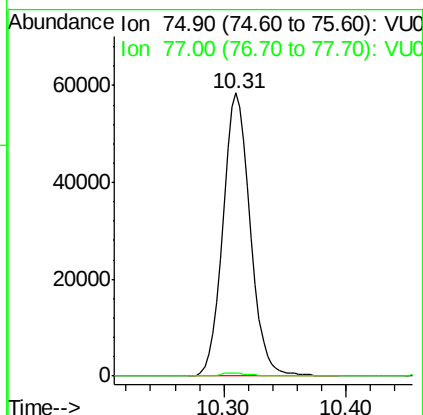
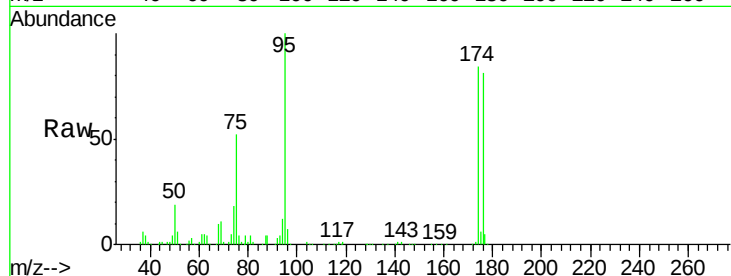
ClientSampled :

Tot Ion: 75 Resp: 92015

Ion Ratio Lower Upper

75 100

77 1.1 20.9 62.7#



#81

trans-1,4-Dichloro-2-butene

Concen: 58.00 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.20 min

Lab File: VU024840.D

Acq: 22 Jun 2018 17:57

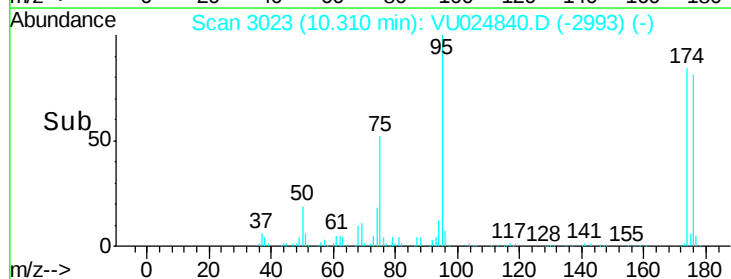
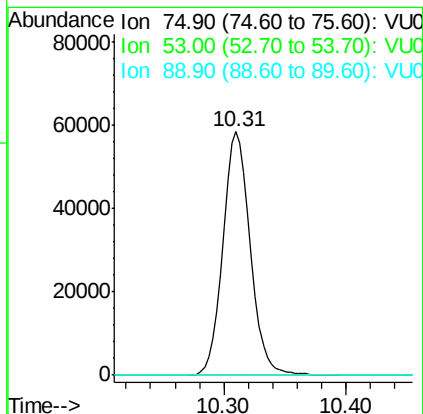
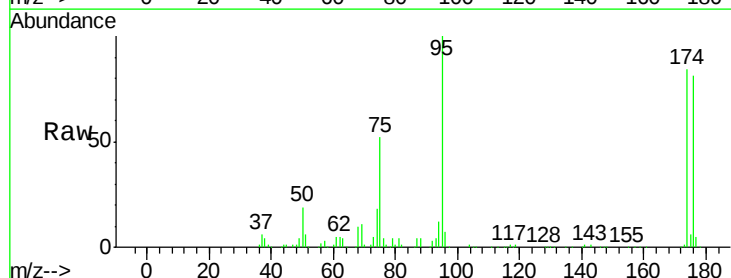
Tgt Ion: 75 Resp: 92015

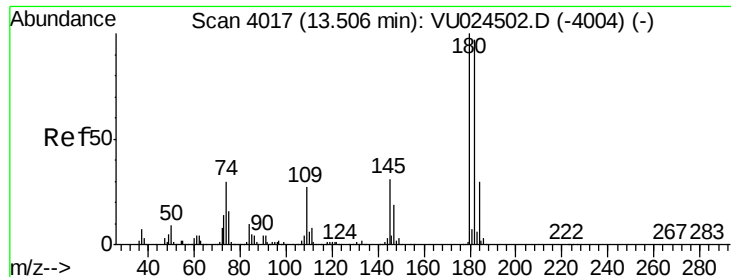
Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

89 0.0 0.0 0.0





#93

1,2,4-Trichlorobenzene

Concen: 0.33 ug/l

RT: 13.51 min Scan# 4018

Delta R.T. 0.00 min

Lab File: VU024840.D

Acq: 22 Jun 2018 17:57

Instrument :

MSVOA_U

ClientSampled :

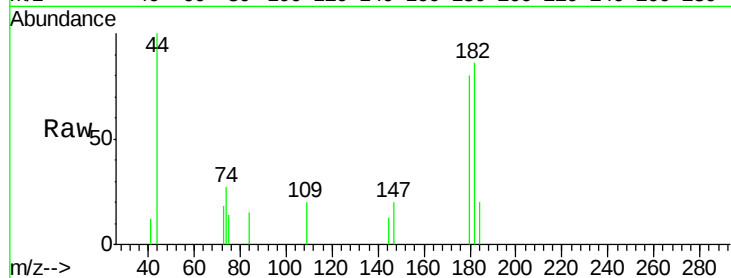
Tot Ion:180 Resp: 1220

Ion	Ratio	Lower	Upper
180	100		
182	94.0	48.0	144.2
145	17.7	14.7	44.1

180 100

182 94.0 48.0 144.2

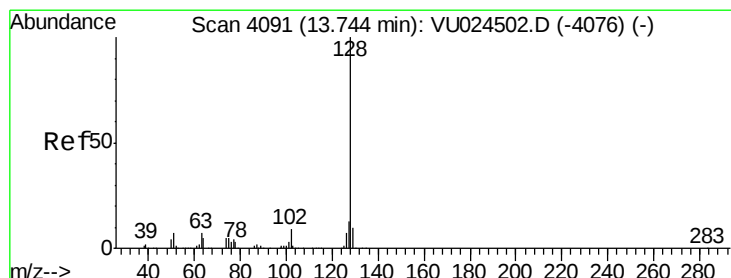
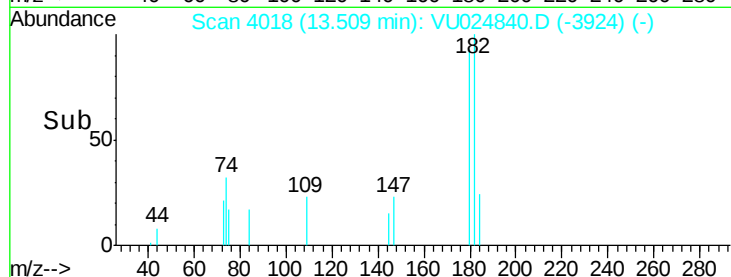
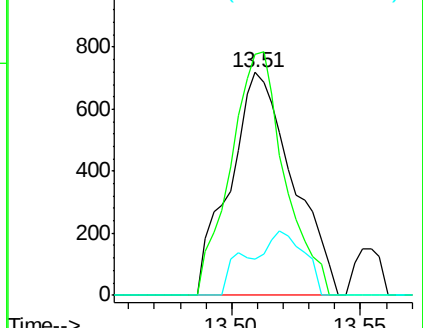
145 17.7 14.7 44.1



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#95

Naphthalene

Concen: 1.50 ug/l

RT: 13.75 min Scan# 4093

Delta R.T. 0.01 min

Lab File: VU024840.D

Acq: 22 Jun 2018 17:57

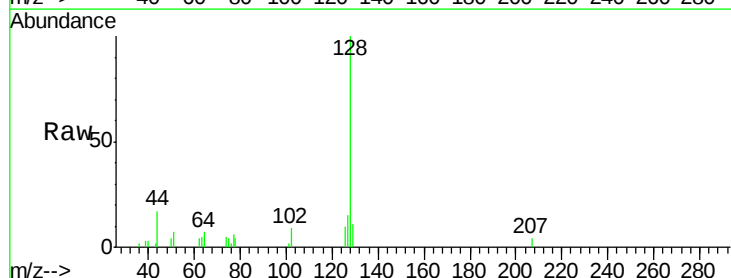
Tgt Ion:128 Resp: 10215

Ion	Ratio	Lower	Upper
128	100		
127	12.2	10.6	16.0
129	9.5	8.6	12.8

128 100

127 12.2 10.6 16.0

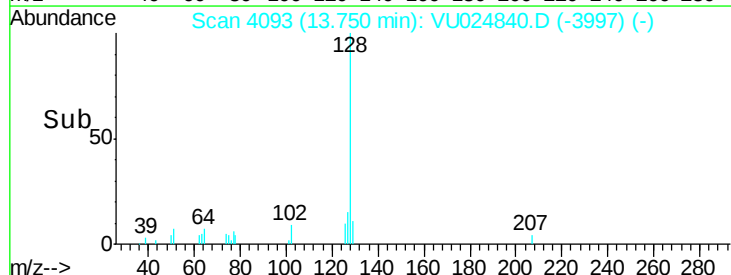
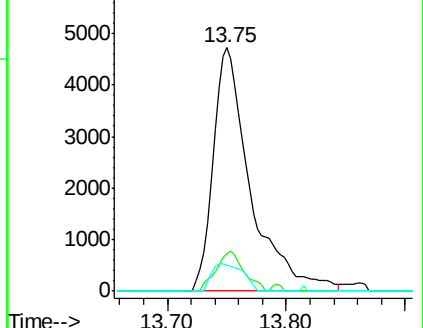
129 9.5 8.6 12.8

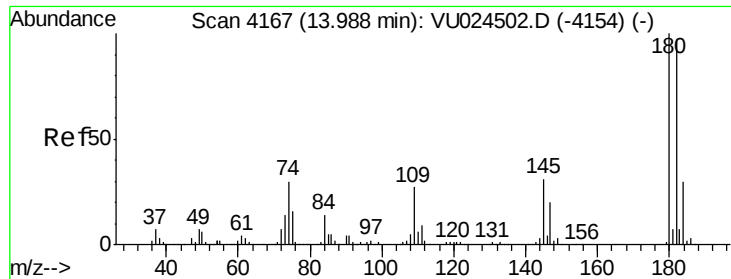


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96

1,2,3-Trichlorobenzene

Concen: 0.42 ug/l

RT: 13.99 min Scan# 4169

Delta R.T. 0.01 min

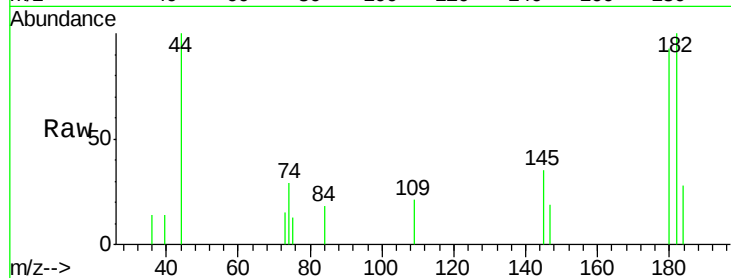
Lab File: VU024840.D

Acq: 22 Jun 2018 17:57

Instrument :

MSVOA_U

ClientSampleId :



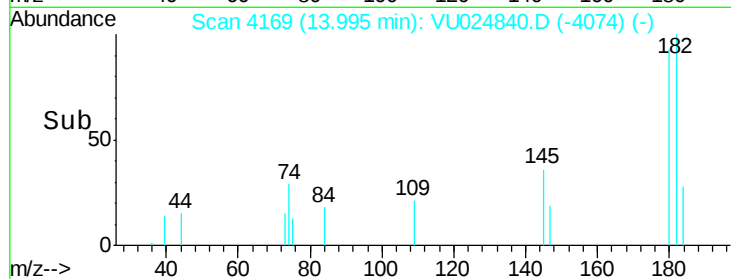
Tot Ion:180 Resp: 1558

Ion Ratio Lower Upper

180 100

182 106.5 47.9 143.7

145 36.5 15.4 46.1



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

