

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU090719\
 Data File : VU034347.D
 Acq On : 06 Sep 2019 22:22
 Operator : JC/SP
 Sample : VU0907WBL02
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0907WBL02

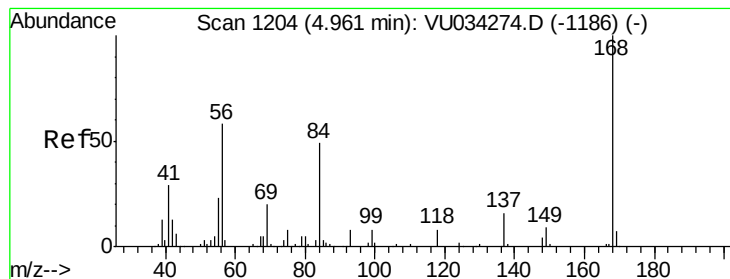
Quant Time: Sep 07 04:12:27 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U090619W.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 06 05:10:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.96	168	299115	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	437656	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	433814	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	259830	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.29	65	222343	49.13	ug/l	0.00
Spiked Amount 50.000			Recovery	=	98.26%	
35) Dibromofluoromethane	4.86	113	194860	47.85	ug/l	0.00
Spiked Amount 50.000			Recovery	=	95.70%	
50) Toluene-d8	7.55	98	738340	48.26	ug/l	0.00
Spiked Amount 50.000			Recovery	=	96.52%	
62) 4-Bromofluorobenzene	10.29	95	267567	45.29	ug/l	0.00
Spiked Amount 50.000			Recovery	=	90.58%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.63	94	1185	Below Cal		94
6) Chloroethane	1.69	64	65	Below Cal	#	17
10) Methyl Iodide	2.41	142	1003	4.139	ug/l #	78
11) Tert butyl alcohol	2.82	59	265	0.277	ug/l #	73
16) Acetone	2.31	43	702	0.300	ug/l	89
17) Carbon Disulfide	2.47	76	1650	0.226	ug/l #	75
20) Methylene Chloride	2.69	84	767	Below Cal		95
31) Cyclohexane	4.96	56	4552	0.859	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	19616	4.133	ug/l #	47
38) Carbon Tetrachloride	4.96	117	25974	5.125	ug/l #	15
51) 4-Methyl-2-Pentanone	7.45	43	1699	0.280	ug/l	97
76) 1,2,3-Trichloropropane	10.29	75	125055	22.049	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.29	75	125055	74.150	ug/l #	100
93) 1,2,4-Trichlorobenzene	13.50	180	251	3.490	ug/l #	14
94) Hexachlorobutadiene	13.67	225	777	0.262	ug/l	93
95) Naphthalene	13.76	128	3647	4.160	ug/l #	91
96) 1,2,3-Trichlorobenzene	14.00	180	1260	2.840	ug/l	94

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1205

Delta R.T. 0.00 min

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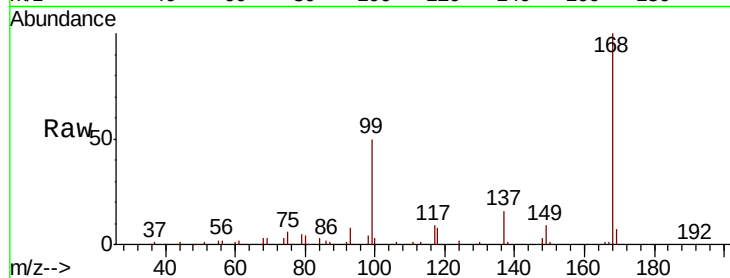
VU0907WBL02

Tgt Ion:168 Resp: 299115

Ion Ratio Lower Upper

168 100

99 49.8 41.6 62.4



Abundance Ion 167.90 (167.60 to 168.60): VU0

Ion 98.90 (98.60 to 99.60): VU0

4.96

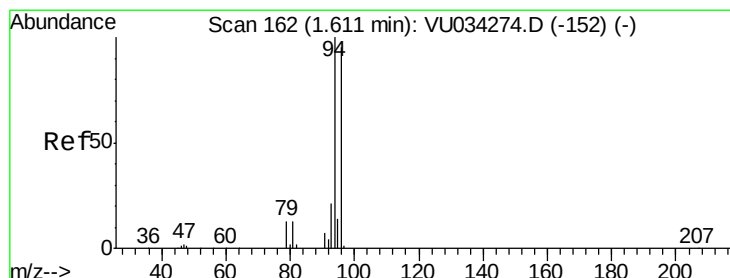
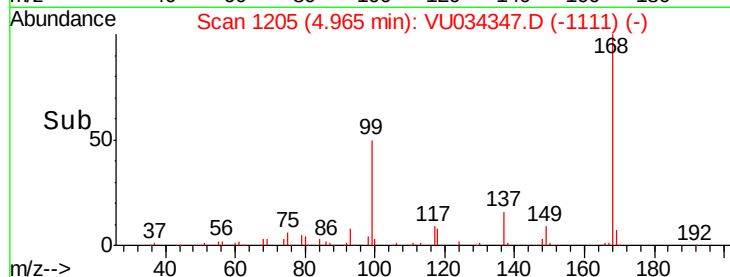
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 169

Delta R.T. 0.02 min

Lab File: VU034347.D

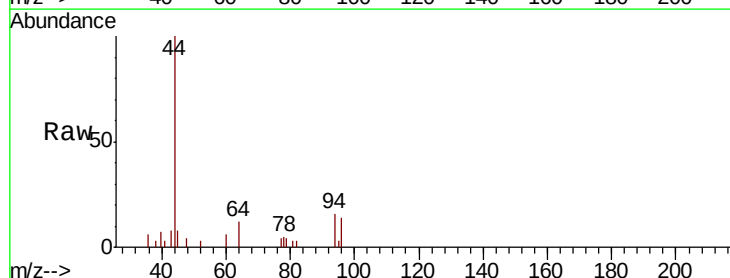
Acq: 06 Sep 2019 22:22

Tgt Ion: 94 Resp: 1185

Ion Ratio Lower Upper

94 100

96 88.4 75.7 113.5



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0

1.63

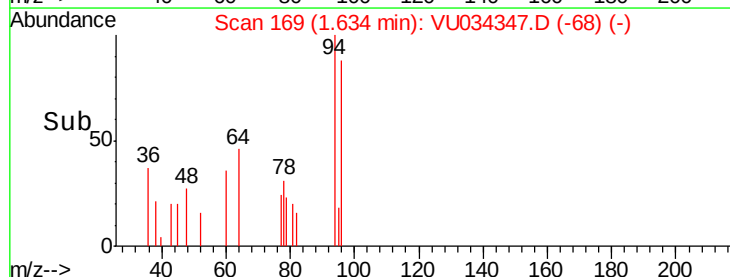
600

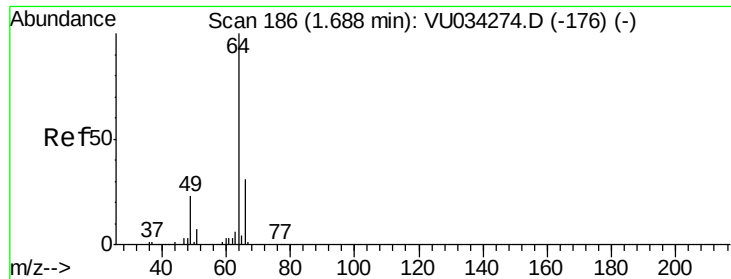
400

200

0

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.69 min Scan# 188

Delta R.T. 0.01 min

Lab File: VU034347.D

Acq: 06 Sep 2019 22:22

Instrument :

MSVOA_U

ClientSampleId :

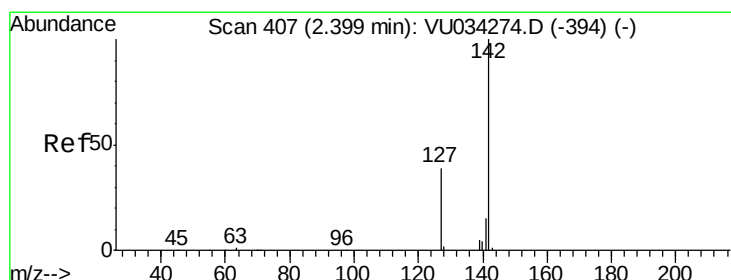
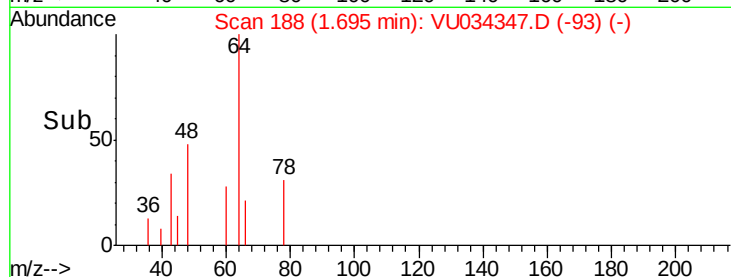
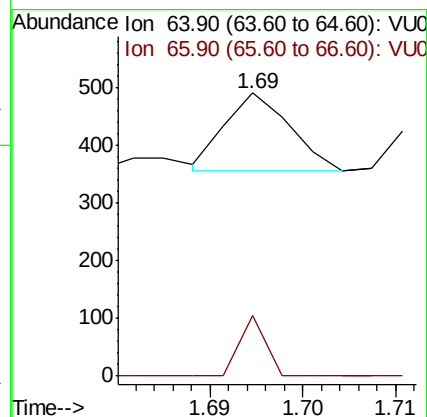
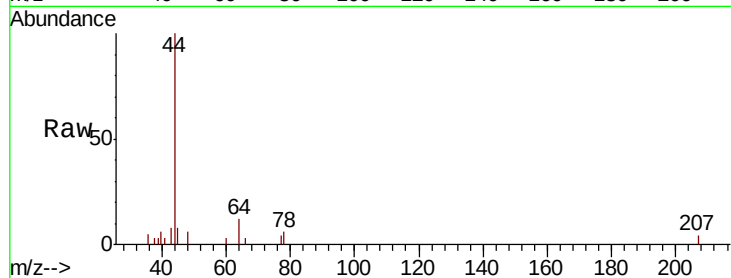
VU0907WBL02

Tgt Ion: 64 Resp: 65

Ion Ratio Lower Upper

64 100

66 77.0 25.0 37.6#



#10

Methyl Iodide

Concen: 4.139 ug/l

RT: 2.41 min Scan# 410

Delta R.T. 0.01 min

Lab File: VU034347.D

Acq: 06 Sep 2019 22:22

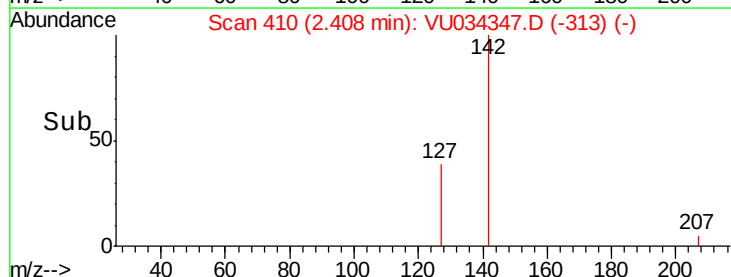
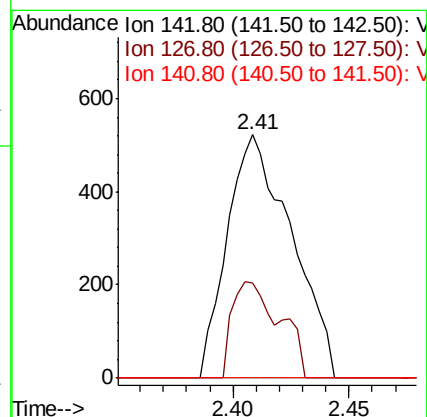
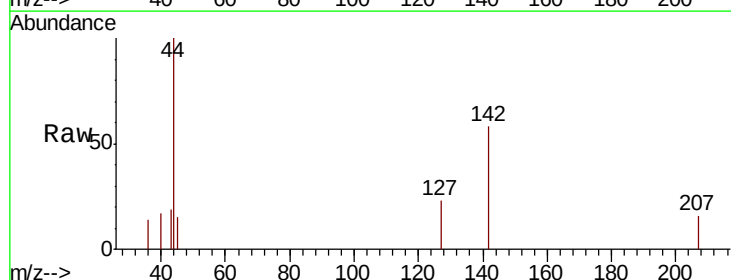
Tgt Ion: 142 Resp: 1003

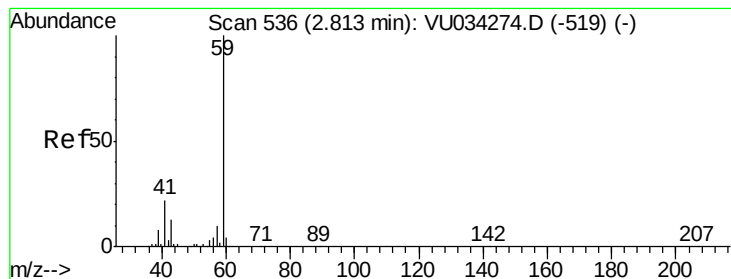
Ion Ratio Lower Upper

142 100

127 29.0 32.1 48.1#

141 0.0 11.5 17.3#





#11

Tert butyl alcohol

Concen: 0.277 ug/l

RT: 2.82 min Scan# 539

Delta R.T. 0.01 min

Lab File: VU034347.D

Acq: 06 Sep 2019 22:22

Instrument :

MSVOA_U

ClientSampleId :

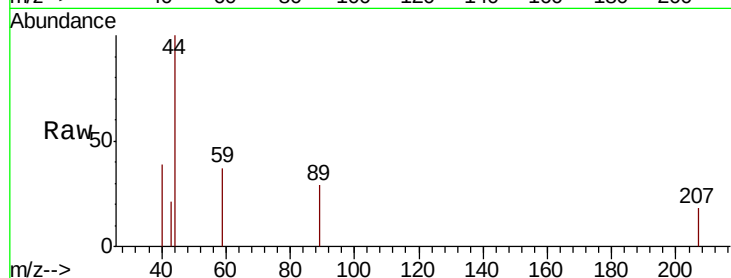
VU0907WBL02

Tgt Ion: 59 Resp: 265

Ion Ratio Lower Upper

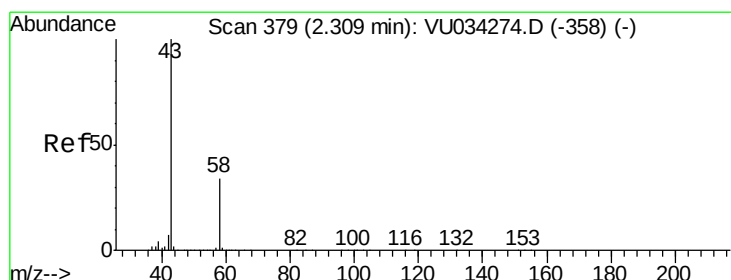
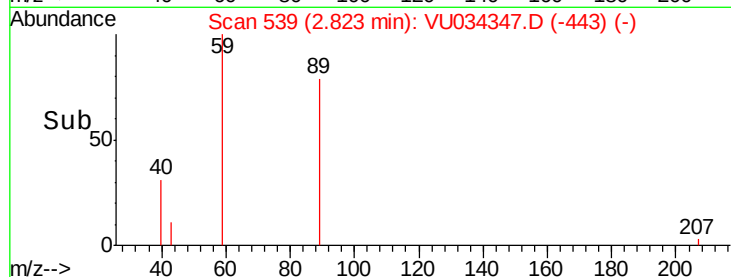
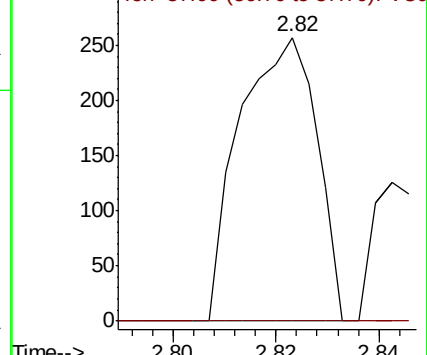
59 100

57 0.0 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 57.00 (56.70 to 57.70): VU0



#16

Acetone

Concen: 0.300 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034347.D

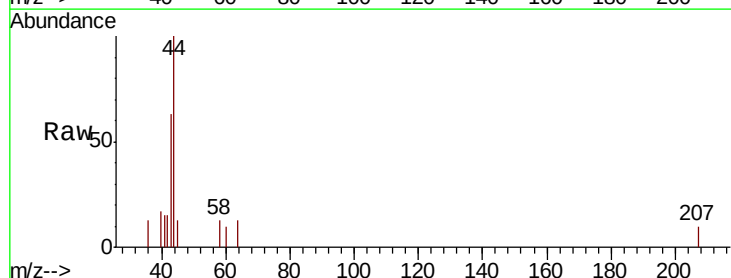
Acq: 06 Sep 2019 22:22

Tgt Ion: 43 Resp: 702

Ion Ratio Lower Upper

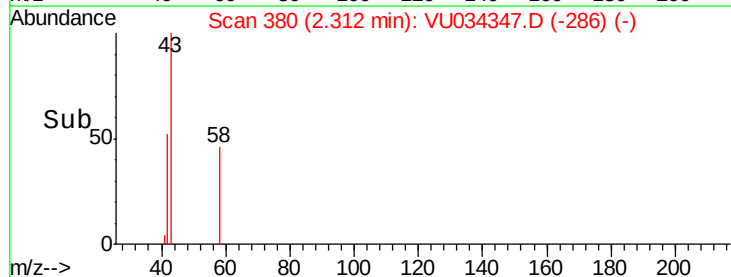
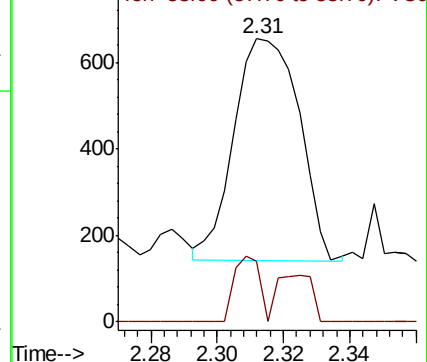
43 100

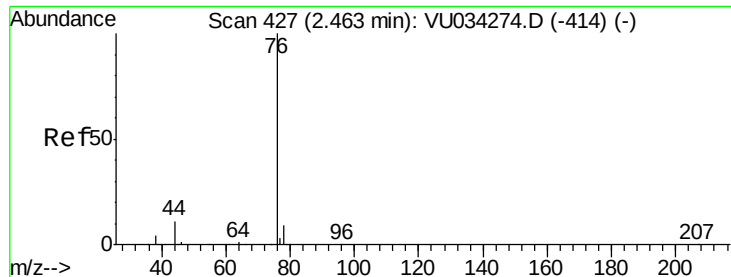
58 28.0 27.6 41.4



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

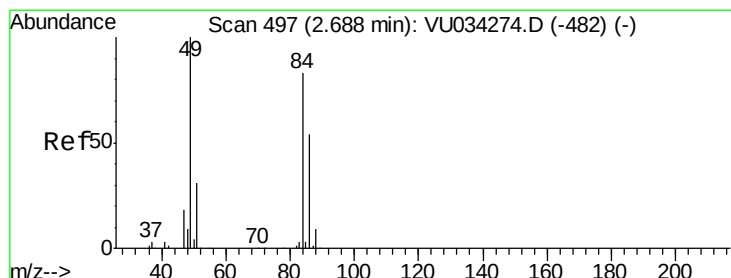
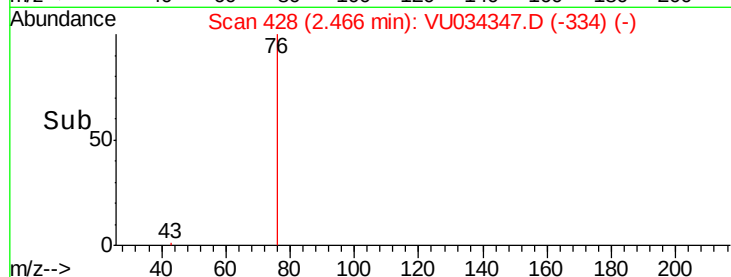
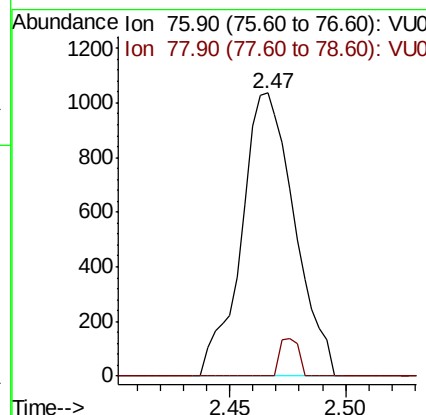
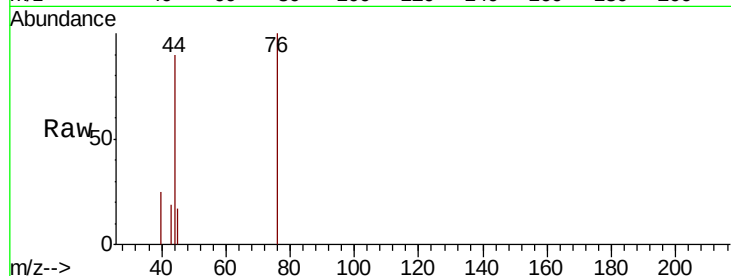




#17
Carbon Disulfide
Concen: 0.226 ug/l
RT: 2.47 min Scan# 428
Delta R.T. 0.00 min
Lab File: VU034347.D
Acq: 06 Sep 2019 22:22

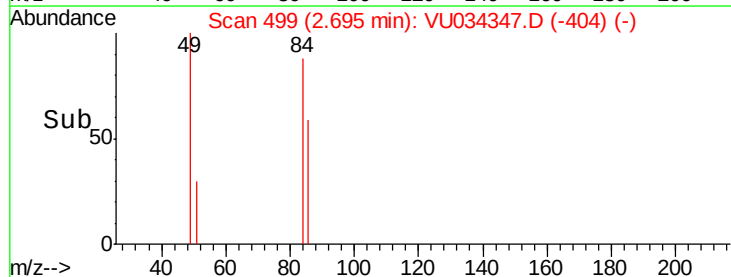
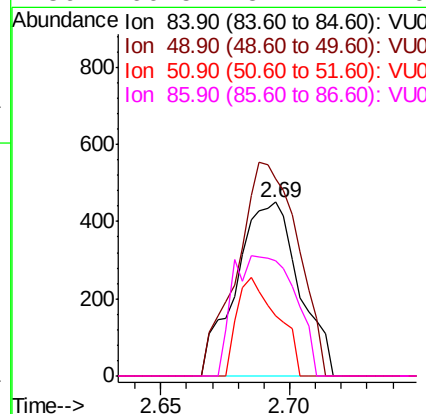
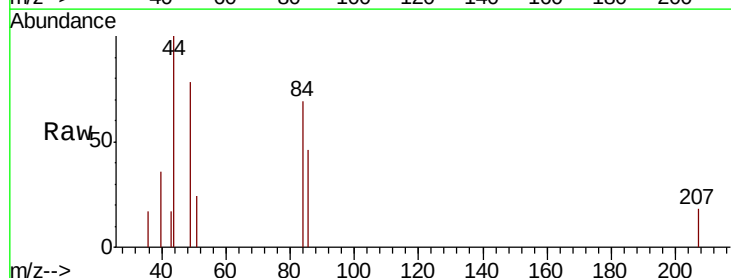
Instrument :
MSVOA_U
ClientSampleId :
VU0907WBL02

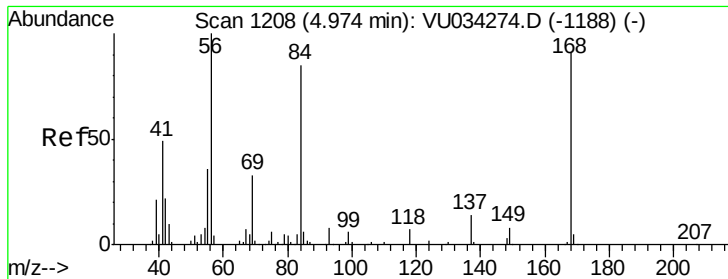
Tgt Ion: 76 Resp: 1650
Ion Ratio Lower Upper
76 100
78 0.0 7.2 10.8#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.69 min Scan# 499
Delta R.T. 0.01 min
Lab File: VU034347.D
Acq: 06 Sep 2019 22:22

Tgt Ion: 84 Resp: 767
Ion Ratio Lower Upper
84 100
49 113.5 96.0 144.0
51 34.4 30.0 45.0
86 66.5 51.4 77.0





#31

Cyclohexane

Concen: 0.859 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.01 min

Lab File: VU034347.D

Acq: 06 Sep 2019 22:22

Instrument :

MSVOA_U

ClientSampleId :

VU0907WBL02

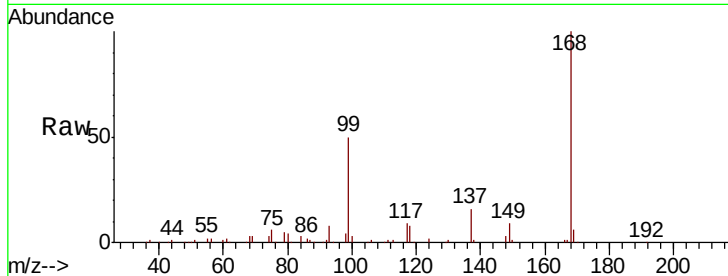
Tgt Ion: 56 Resp: 4552

Ion Ratio Lower Upper

56 100

69 196.6 26.7 40.1#

84 194.1 68.2 102.4#

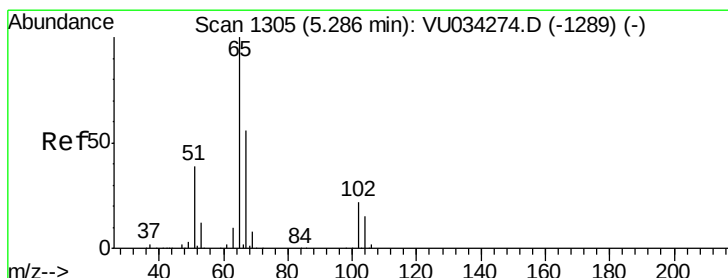
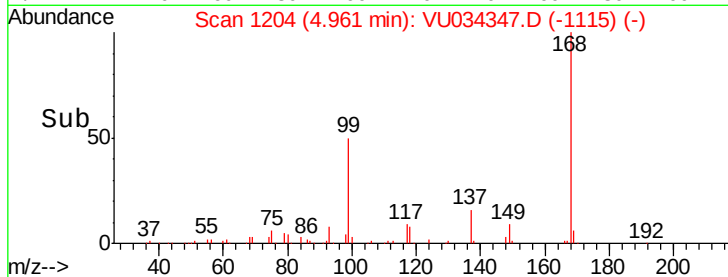
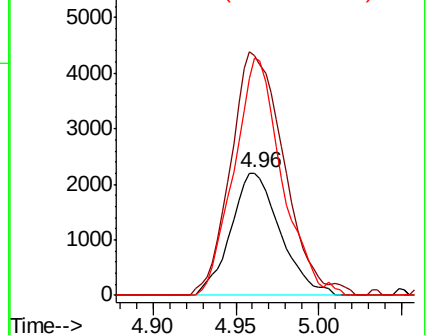


Abundance

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: 49.129 ug/l

RT: 5.29 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VU034347.D

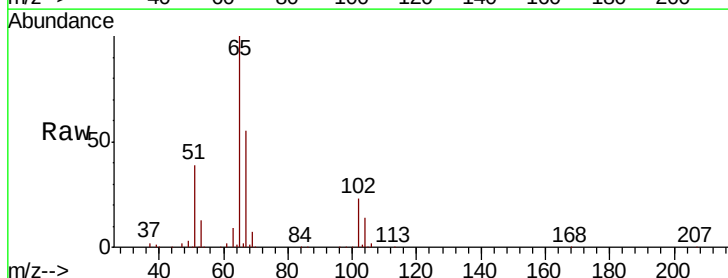
Acq: 06 Sep 2019 22:22

Tgt Ion: 65 Resp: 222343

Ion Ratio Lower Upper

65 100

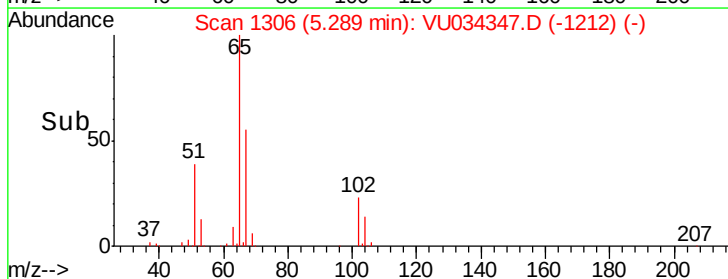
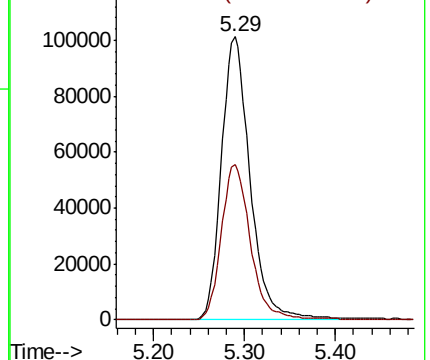
67 55.8 0.0 112.4

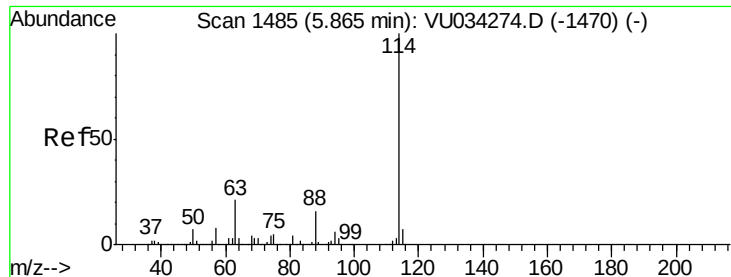


Abundance

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: 5.87 min Scan# 1486

Delta R.T. 0.00 min

Lab File: VU034347.D

Acq: 06 Sep 2019 22:22

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MSVOA_U

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VU0907WBL02

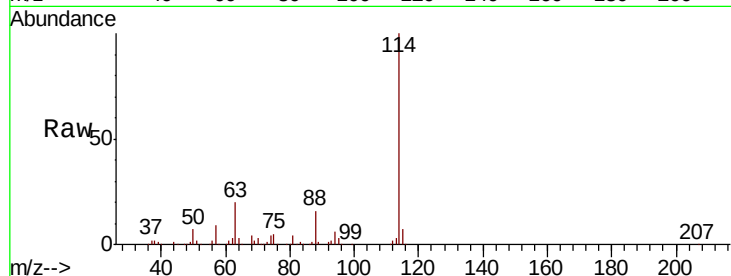
Tgt Ion:114 Resp: 437656

Ion Ratio Lower Upper

114 100

63 19.6 0.0 42.4

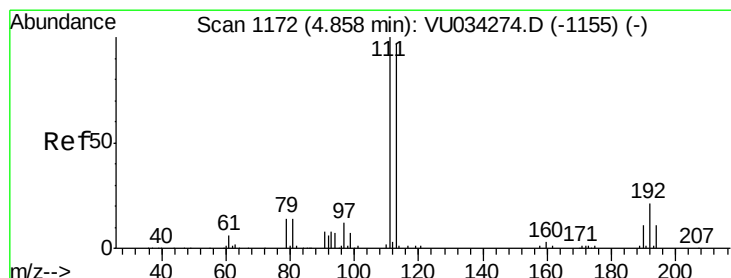
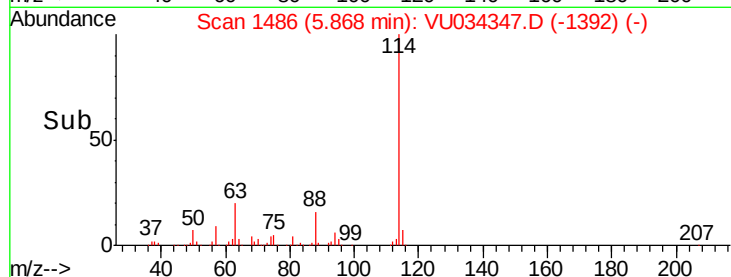
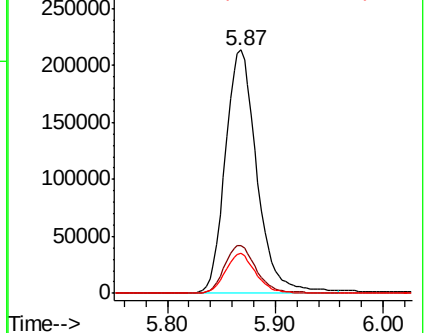
88 16.3 0.0 32.4



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: 47.849 ug/l

RT: 4.86 min Scan# 1173

Delta R.T. 0.00 min

Lab File: VU034347.D

Acq: 06 Sep 2019 22:22

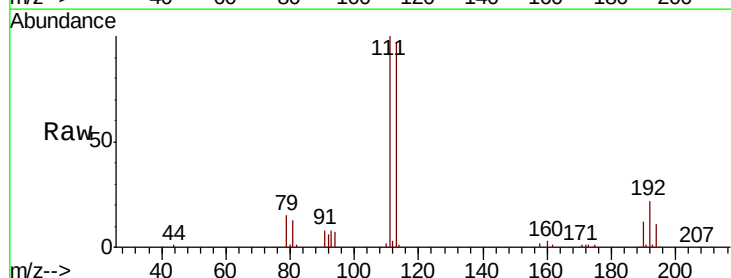
Tgt Ion:113 Resp: 194860

Ion Ratio Lower Upper

113 100

111 102.9 81.5 122.3

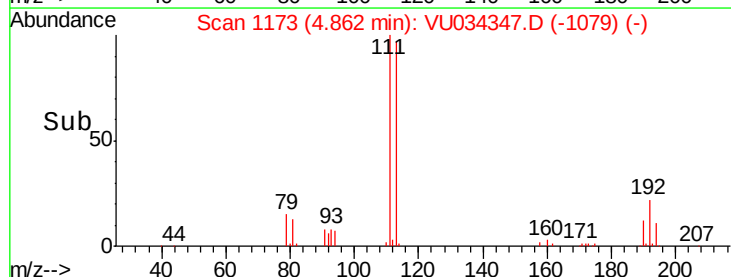
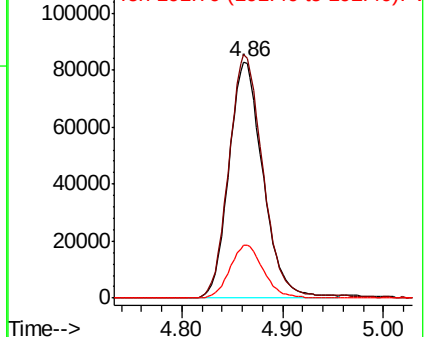
192 22.0 17.8 26.8

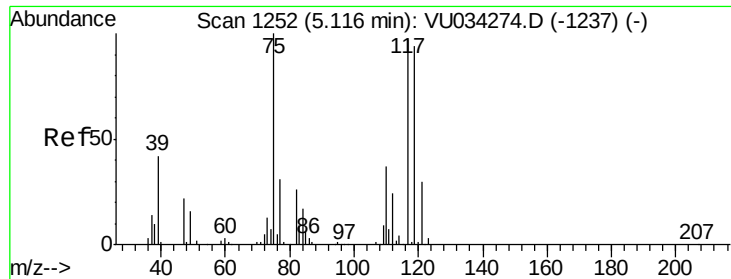


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.133 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.15 min

Lab File: VU034347.D

Acq: 06 Sep 2019 22:22

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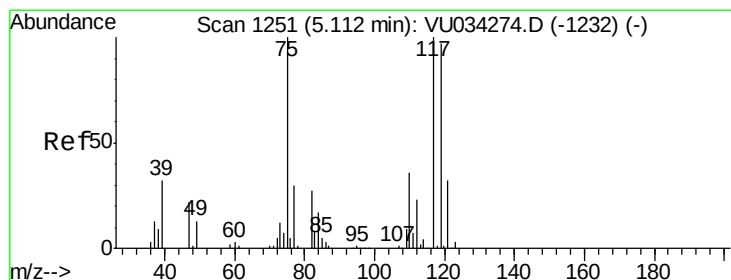
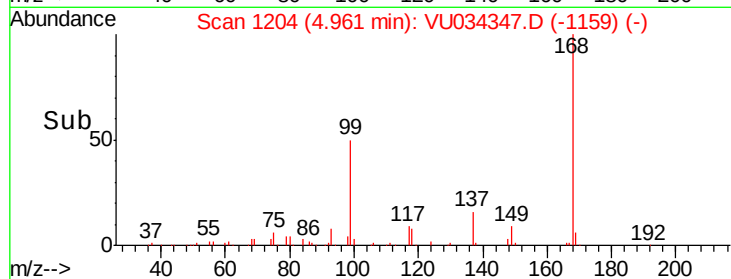
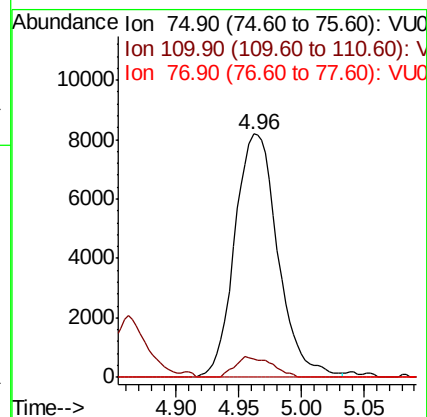
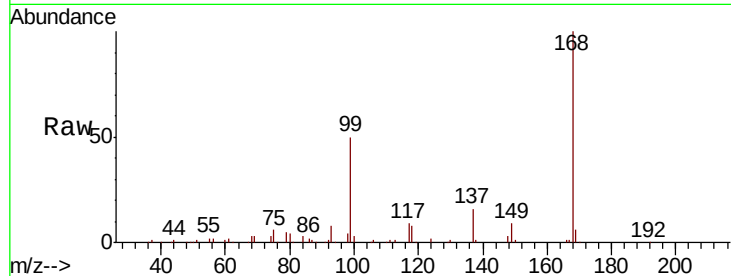
Tgt Ion: 75 Resp: 19616

Ion Ratio Lower Upper

75 100

110 7.3 18.3 54.9#

77 0.0 24.9 37.3#



#38

Carbon Tetrachloride

Concen: 5.125 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.15 min

Lab File: VU034347.D

Acq: 06 Sep 2019 22:22

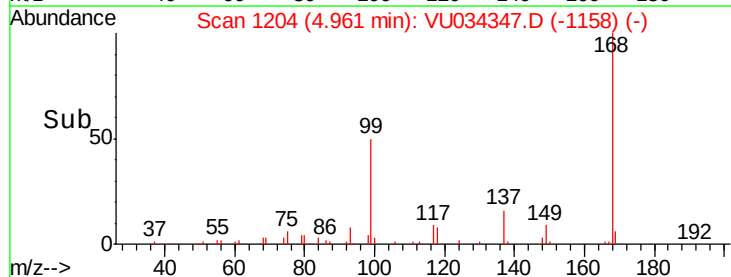
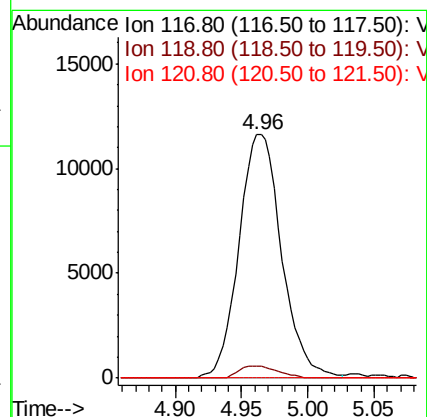
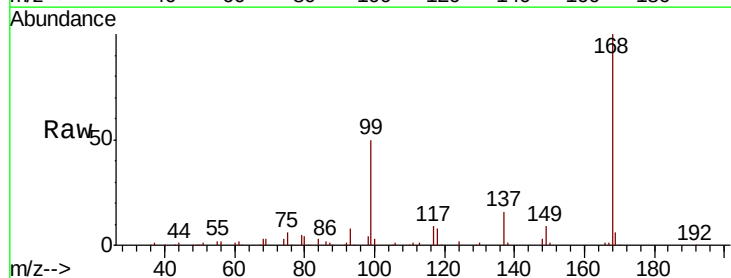
Tgt Ion: 117 Resp: 25974

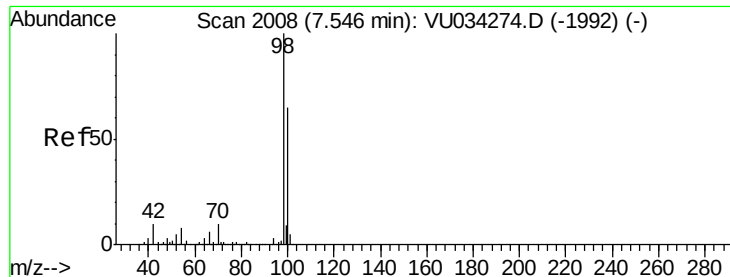
Ion Ratio Lower Upper

117 100

119 5.0 77.8 116.6#

121 0.0 25.2 37.8#





#50

Toluene-d8

Concen: 48.257 ug/l

RT: 7.55 min Scan# 2008

Delta R.T. 0.00 min

Lab File: VU034347.D

Acq: 06 Sep 2019 22:22

Instrument :

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ClientSampleId :

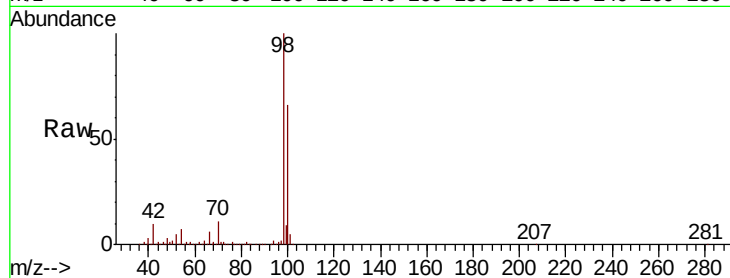
VU0907WBL02

Tgt Ion: 98 Resp: 738340

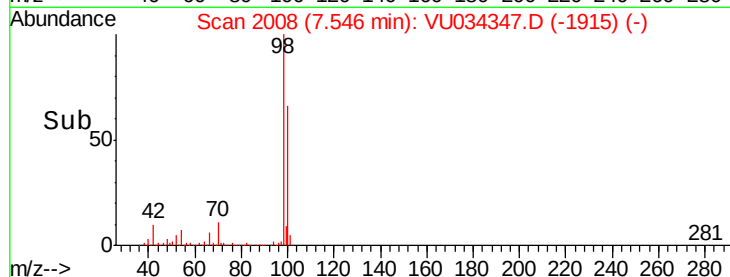
Ion Ratio Lower Upper

98 100

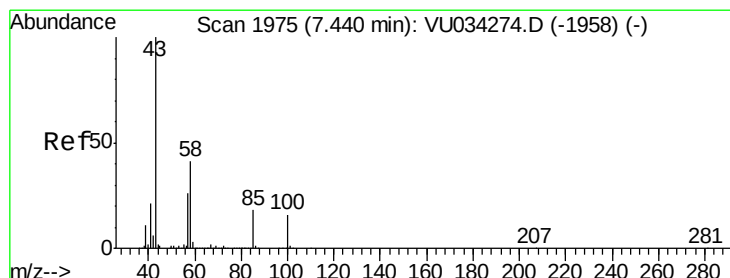
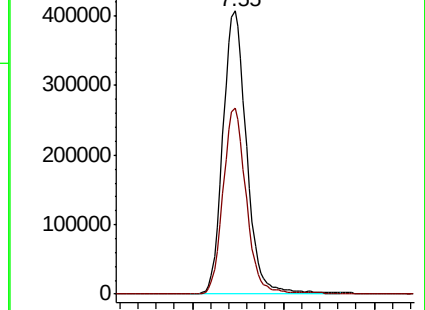
100 64.6 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VU034347.D (-1915) (-)



Ion 100.00 (99.70 to 100.70): VU034347.D (-1915) (-)



#51

4-Methyl-2-Pentanone

Concen: 0.280 ug/l

RT: 7.45 min Scan# 1979

Delta R.T. 0.01 min

Lab File: VU034347.D

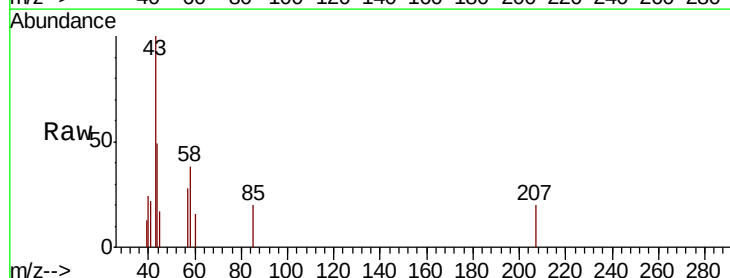
Acq: 06 Sep 2019 22:22

Tgt Ion: 43 Resp: 1699

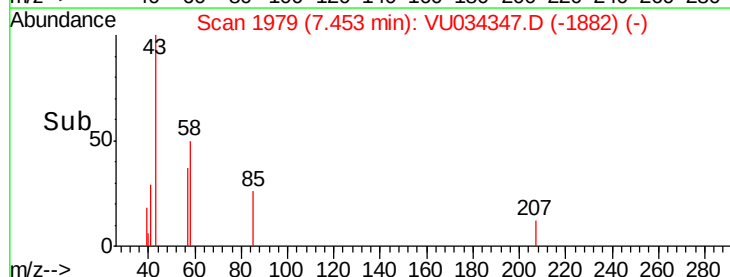
Ion Ratio Lower Upper

43 100

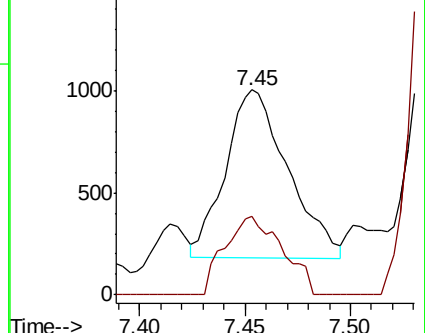
58 42.8 33.0 49.4

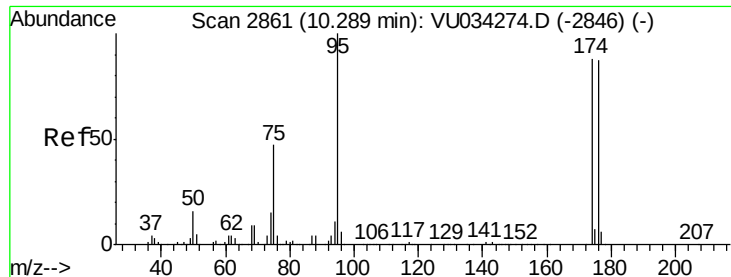


Abundance Ion 43.00 (42.70 to 43.70): VU034347.D (-1882) (-)



Ion 58.00 (57.70 to 58.70): VU034347.D (-1882) (-)

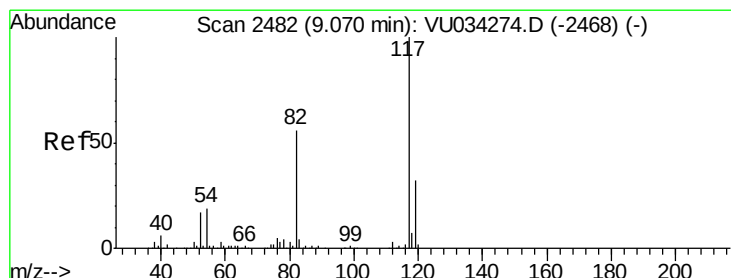
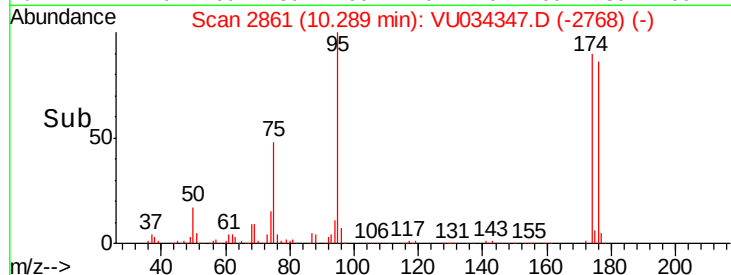
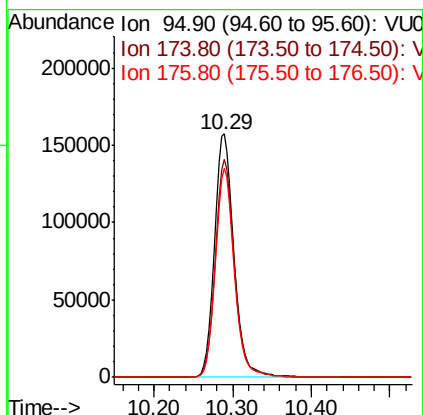
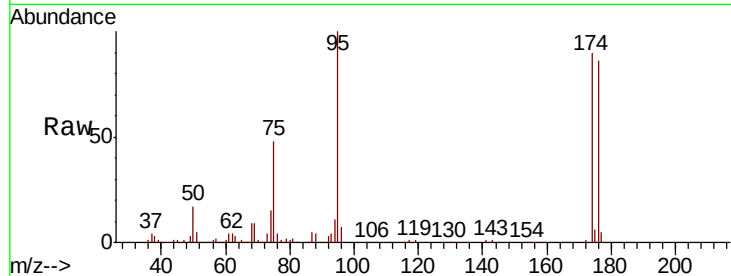




#62
4-Bromofluorobenzene
Concen: 45.295 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. 0.00 min
Lab File: VU034347.D
Acq: 06 Sep 2019 22:22

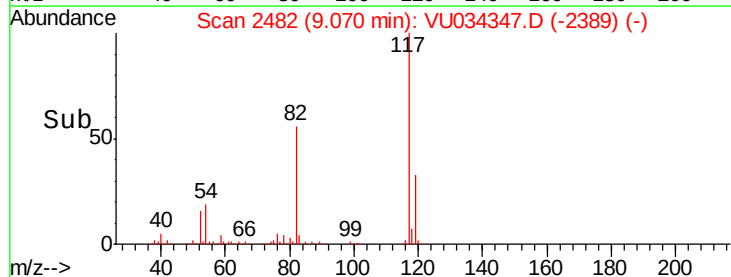
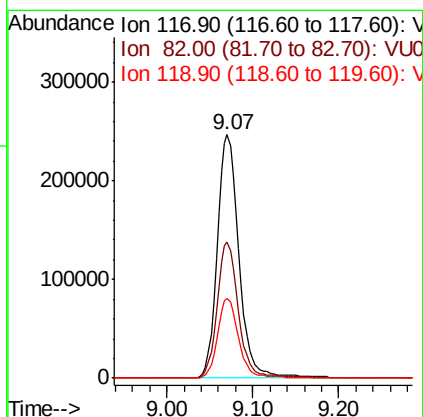
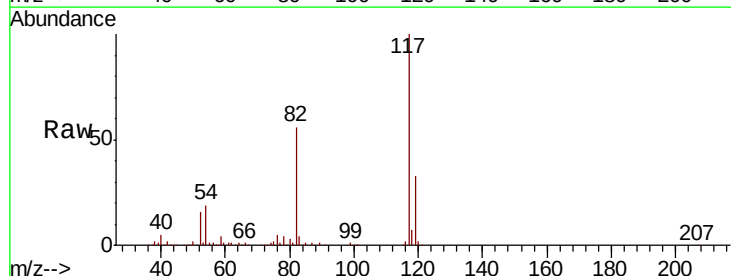
Instrument :
MSVOA_U
ClientSampleId :
VU0907WBL02

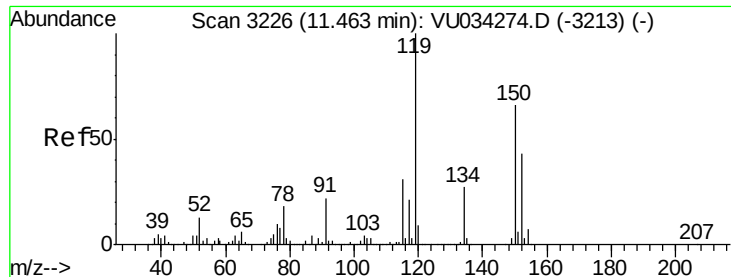
Tgt Ion	Ratio	Lower	Upper
95	100		
174	88.2	0.0	175.2
176	83.5	0.0	168.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. 0.00 min
Lab File: VU034347.D
Acq: 06 Sep 2019 22:22

Tgt Ion	Ratio	Lower	Upper
117	100		
82	55.7	44.6	67.0
119	33.0	25.9	38.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.46 min Scan# 3226

Delta R.T. 0.00 min

Lab File: VU034347.D

Acq: 06 Sep 2019 22:22

Instrument :

MSVOA_U

ClientSampleId :

VU0907WBL02

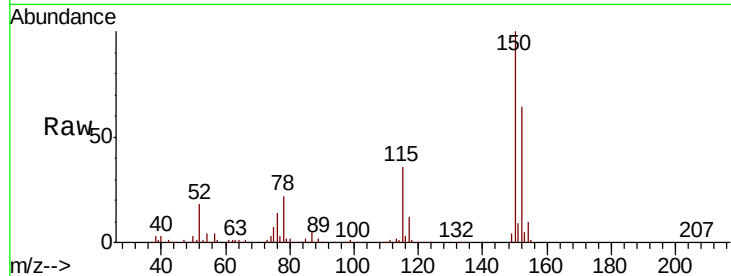
Tgt Ion:152 Resp: 259830

Ion Ratio Lower Upper

152 100

115 55.8 39.1 117.3

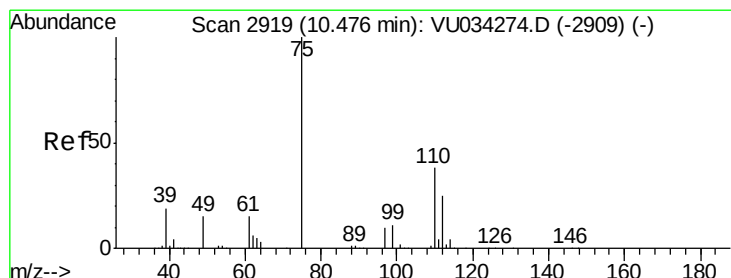
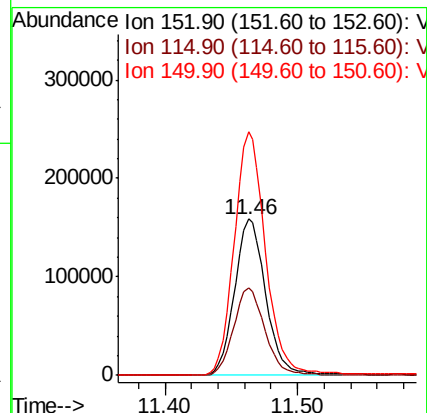
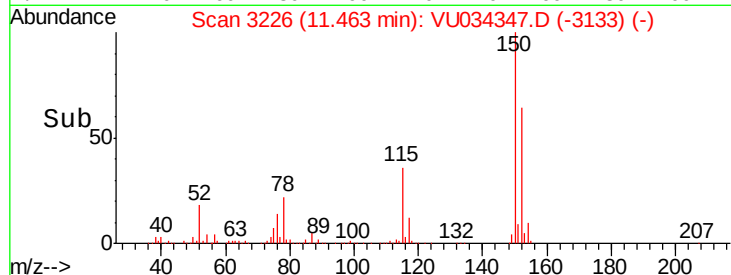
150 157.7 0.0 345.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 22.049 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.19 min

Lab File: VU034347.D

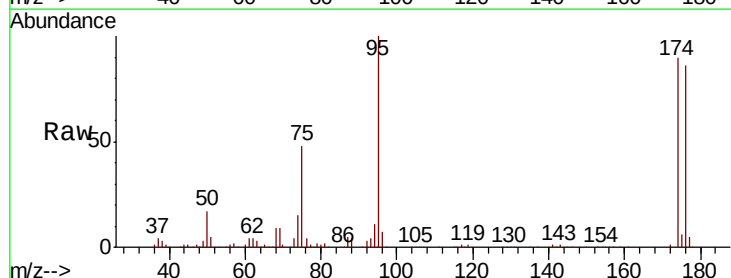
Acq: 06 Sep 2019 22:22

Tgt Ion: 75 Resp: 125055

Ion Ratio Lower Upper

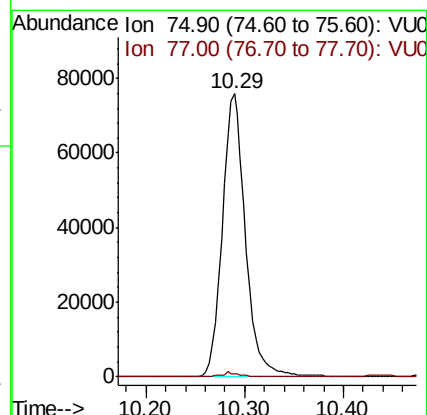
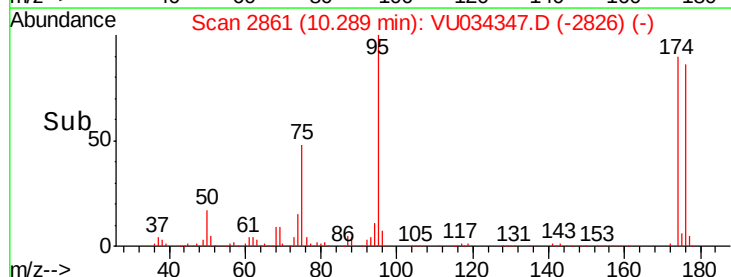
75 100

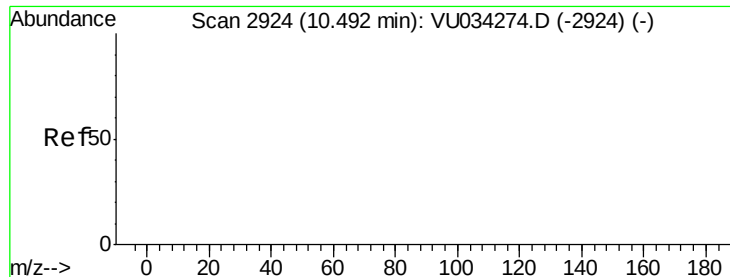
77 1.2 20.8 62.2#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0





#81

trans-1,4-Dichloro-2-butene

Concen: 74.150 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.20 min

Lab File: VU034347.D

Acq: 06 Sep 2019 22:22

Instrument :

MSVOA_U

ClientSampleId :

VU0907WBL02

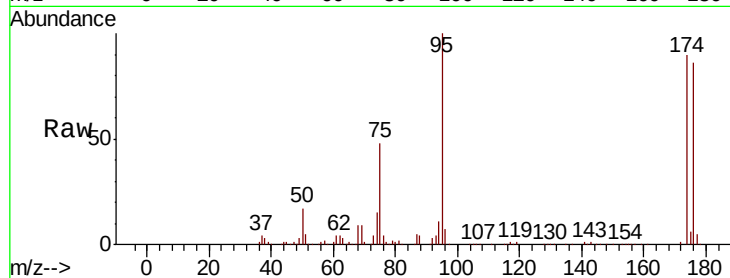
Tgt Ion: 75 Resp: 125055

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0#

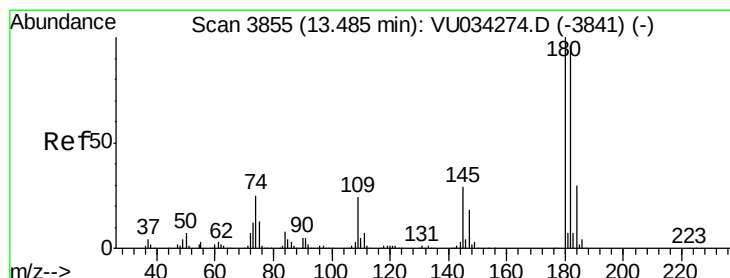
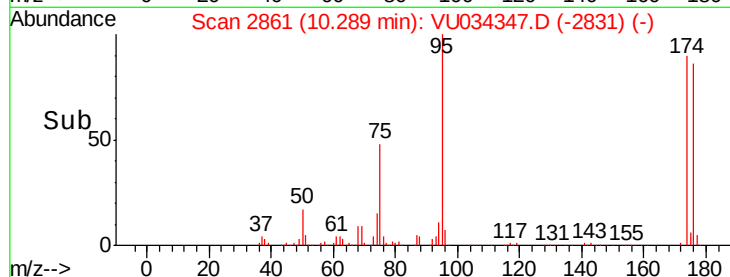
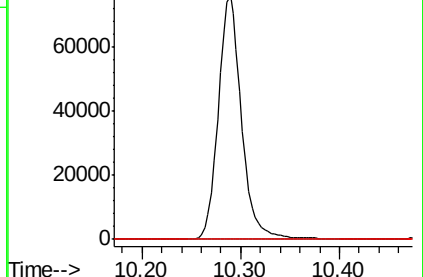
89 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VU034274.D (-2924) (-)

Ion 53.00 (52.70 to 53.70): VU034274.D (-2924) (-)

Ion 88.90 (88.60 to 89.60): VU034274.D (-2924) (-)



#93

1,2,4-Trichlorobenzene

Concen: 3.490 ug/l

RT: 13.50 min Scan# 3860

Delta R.T. 0.02 min

Lab File: VU034347.D

Acq: 06 Sep 2019 22:22

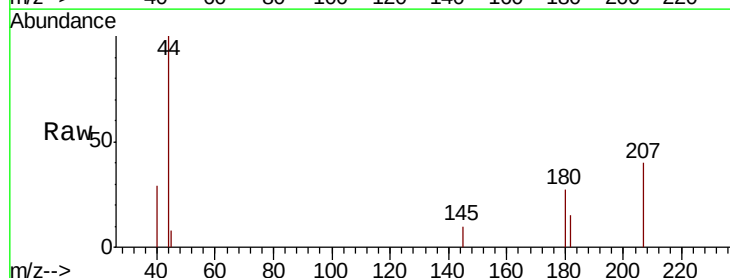
Tgt Ion: 180 Resp: 251

Ion Ratio Lower Upper

180 100

182 0.0 47.9 143.8#

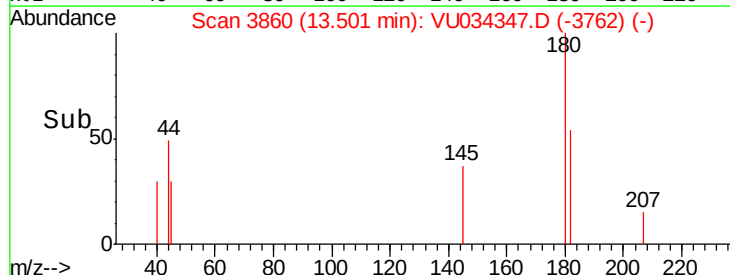
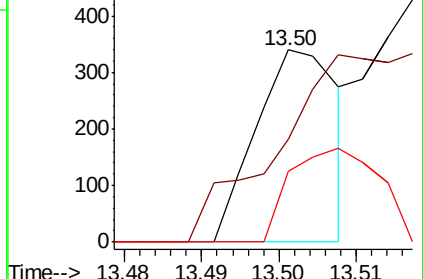
145 53.0 14.4 43.0#

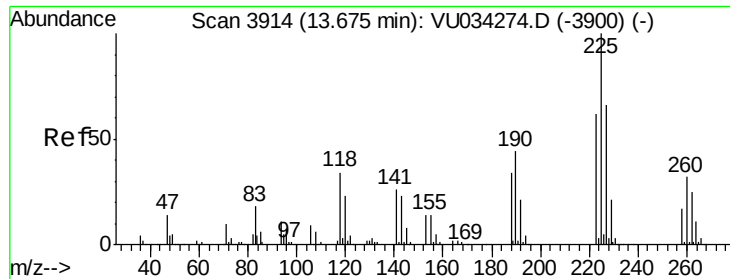


Abundance Ion 179.80 (179.50 to 180.50): VU034274.D (-3841) (-)

Ion 181.80 (181.50 to 182.50): VU034274.D (-3841) (-)

Ion 144.80 (144.50 to 145.50): VU034274.D (-3841) (-)

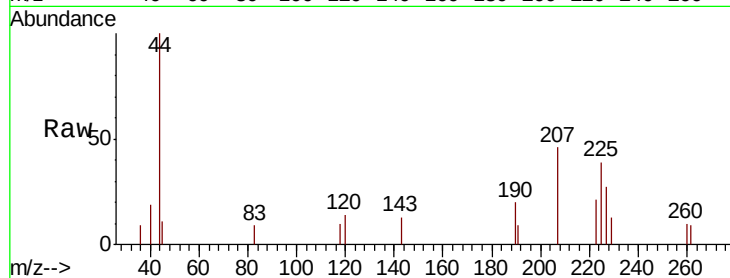




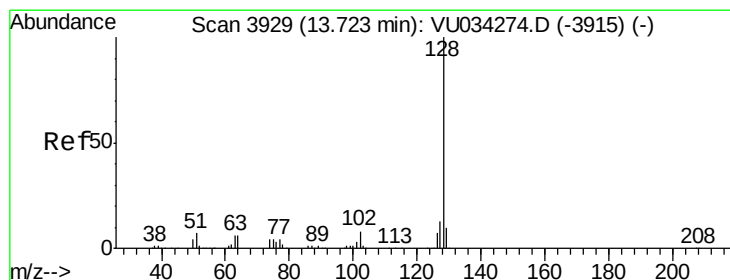
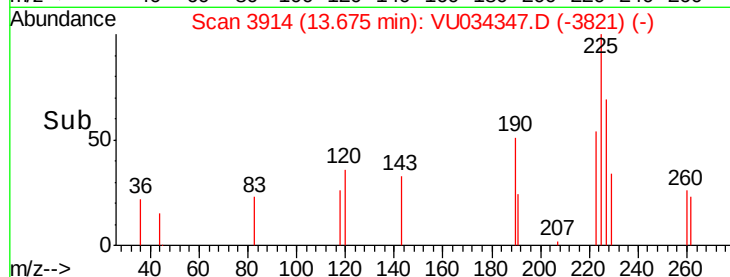
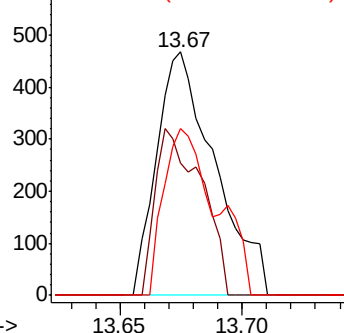
#94
Hexachlorobutadiene
Concen: 0.262 ug/l
RT: 13.67 min Scan# 3914
Delta R.T. 0.00 min
Lab File: VU034347.D
Acq: 06 Sep 2019 22:22

Instrument :
MSVOA_U
ClientSampleId :
VU0907WBL02

Tgt Ion: 225 Resp: 777
Ion Ratio Lower Upper
225 100
223 54.4 31.6 94.7
227 61.5 32.3 96.8

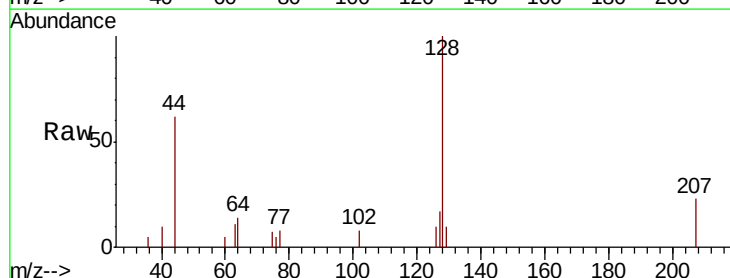


Abundance Ion 224.70 (224.40 to 225.40): V
Ion 222.70 (222.40 to 223.40): V
Ion 226.70 (226.40 to 227.40): V

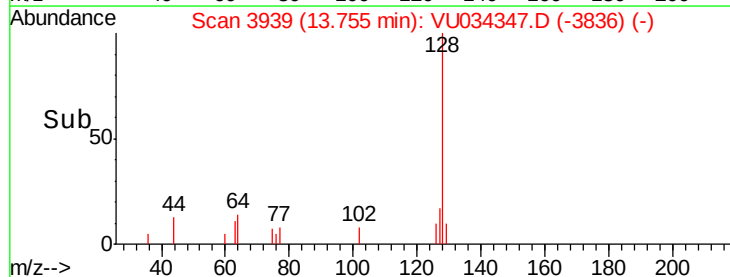
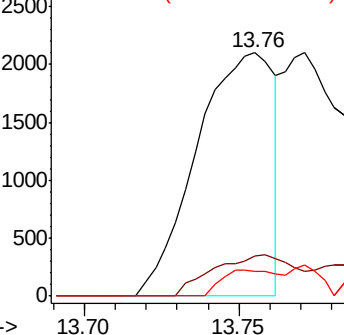


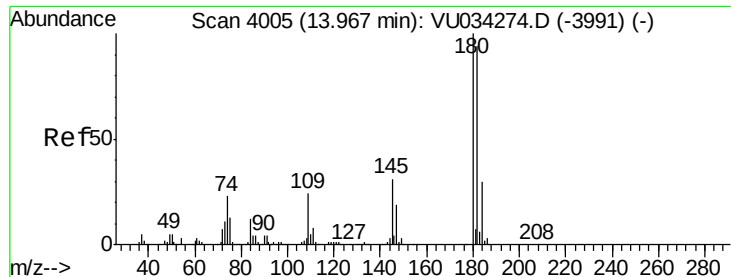
#95
Naphthalene
Concen: 4.160 ug/l
RT: 13.76 min Scan# 3939
Delta R.T. 0.03 min
Lab File: VU034347.D
Acq: 06 Sep 2019 22:22

Tgt Ion: 128 Resp: 3647
Ion Ratio Lower Upper
128 100
127 17.6 10.6 15.8#
129 8.1 8.4 12.6#



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: 2.840 ug/l
 RT: 14.00 min Scan# 4014
 Delta R.T. 0.03 min
 Lab File: VU034347.D
 Acq: 06 Sep 2019 22:22

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0907WBL02

Tgt Ion:180 Resp: 1260
 Ion Ratio Lower Upper
 180 100
 182 91.7 48.4 145.0
 145 36.6 15.4 46.4

