

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU090219\
 Data File : VU034162.D
 Acq On : 01 Sep 2019 12:37
 Operator : JC/SP
 Sample : K4648-08
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Sep 02 08:30:59 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U082919W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 29 04:11:12 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.96	168	440107	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	710088	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	676829	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	335908	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	280729	49.78	ug/l	0.00
Spiked Amount			Recovery	=	99.56%	
35) Dibromofluoromethane	4.86	113	231315	46.97	ug/l	0.00
Spiked Amount			Recovery	=	93.94%	
50) Toluene-d8	7.55	98	889826	48.25	ug/l	0.00
Spiked Amount			Recovery	=	96.50%	
62) 4-Bromofluorobenzene	10.29	95	311361	43.40	ug/l	0.00
Spiked Amount			Recovery	=	86.80%	

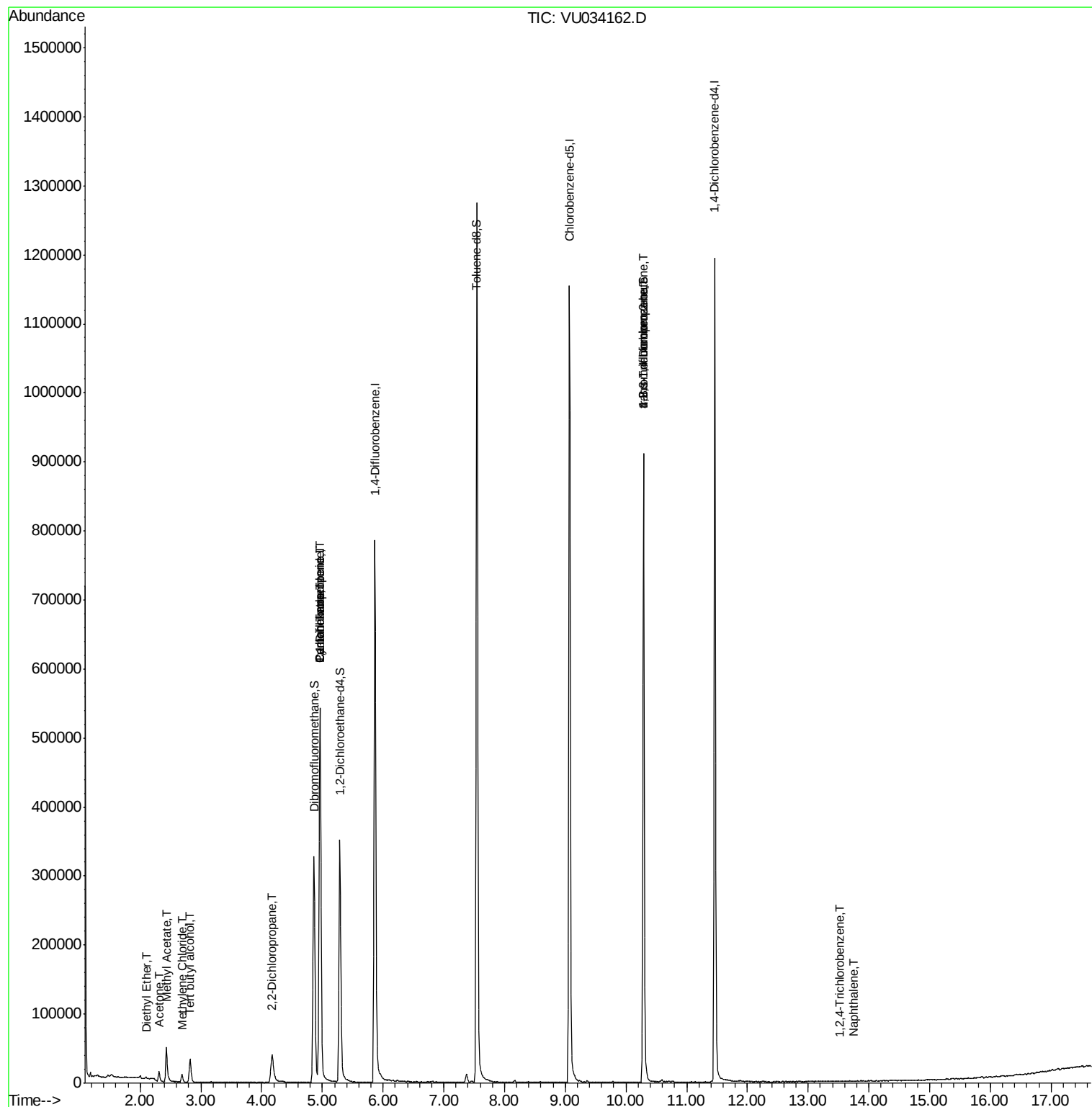
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	890	Below Cal		95
5) Bromomethane	1.63	94	723	Below Cal		81
8) Diethyl Ether	2.09	74	669	0.229	ug/l	99
11) Tert butyl alcohol	2.82	59	21039	16.178	ug/l #	78
16) Acetone	2.31	43	15700	5.456	ug/l	98
18) Methyl Acetate	2.43	43	12692	1.707	ug/l #	51
20) Methylene Chloride	2.69	84	4922	0.904	ug/l	92
26) 2,2-Dichloropropane	4.17	77	3276	0.449	ug/l #	52
31) Cyclohexane	4.96	56	7920	0.941	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	32862	4.893	ug/l #	49
38) Carbon Tetrachloride	4.96	117	40613	6.264	ug/l #	17
76) 1,2,3-Trichloropropane	10.29	75	149873	19.796	ug/l #	37
81) trans-1,4-Dichloro-2-buten	10.29	75	149873	66.659	ug/l #	100
93) 1,2,4-Trichlorobenzene	13.53	180	42	1.120	ug/l #	1
95) Naphthalene	13.76	128	212	1.800	ug/l #	70

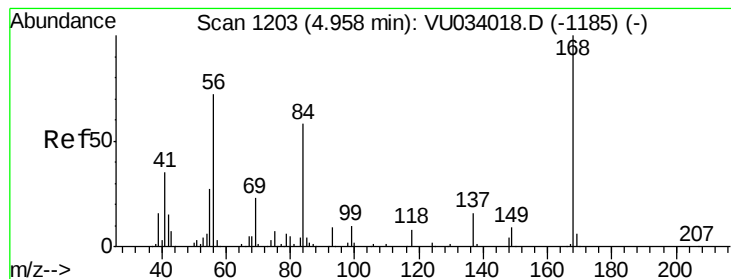
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. 0.00 min

Lab File: VU034162.D

Acq: 01 Sep 2019 12:37

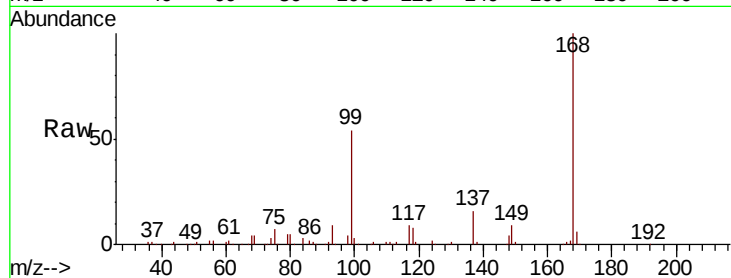
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:168 Resp: 440107

Ion Ratio Lower Upper

168 100

99 54.3 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): VU034018.D (-1185) (-)

Ion 98.90 (98.60 to 99.60): VU034018.D (-1185) (-)

4.96

200000

150000

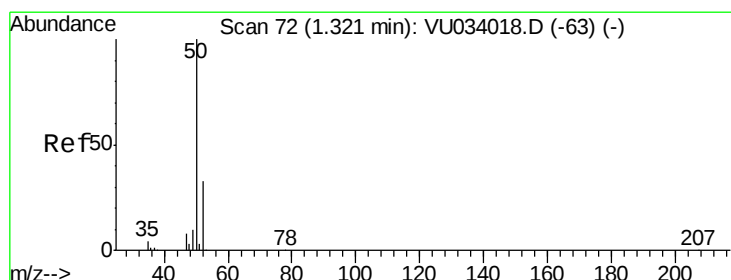
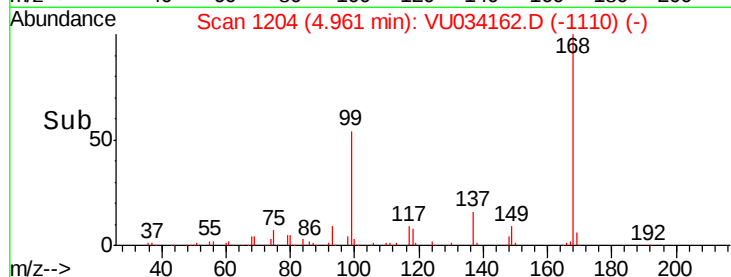
100000

50000

0

4.90 5.00 5.10

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU034162.D

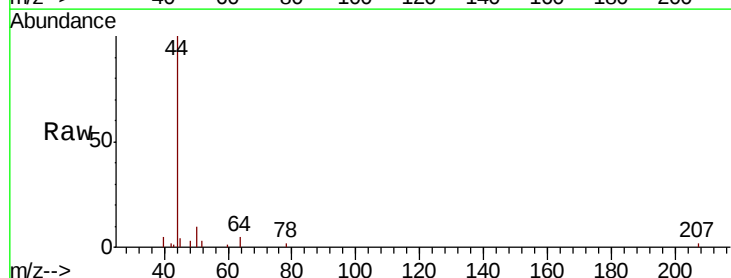
Acq: 01 Sep 2019 12:37

Tgt Ion: 50 Resp: 890

Ion Ratio Lower Upper

50 100

52 35.8 26.2 39.4



Abundance Ion 49.90 (49.60 to 50.60): VU034018.D (-63) (-)

Ion 51.90 (51.60 to 52.60): VU034018.D (-63) (-)

1.32

800

600

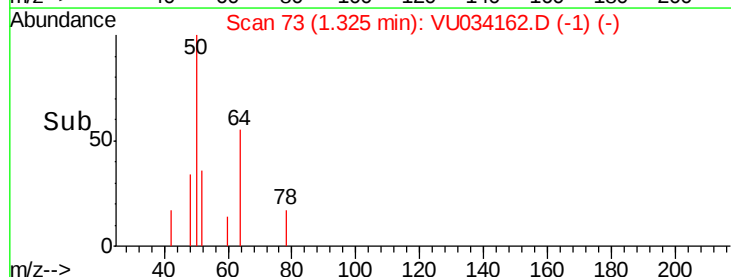
400

200

0

1.30 1.32 1.34 1.36

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 169

Delta R.T. 0.04 min

Lab File: VU034162.D

Acq: 01 Sep 2019 12:37

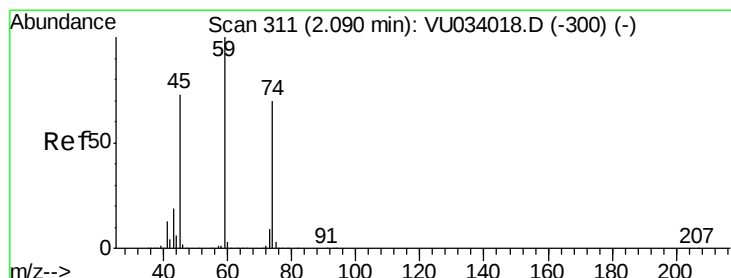
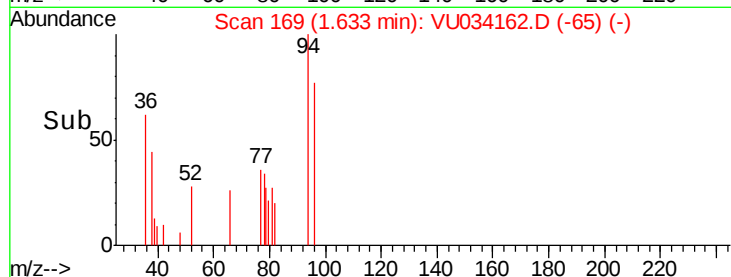
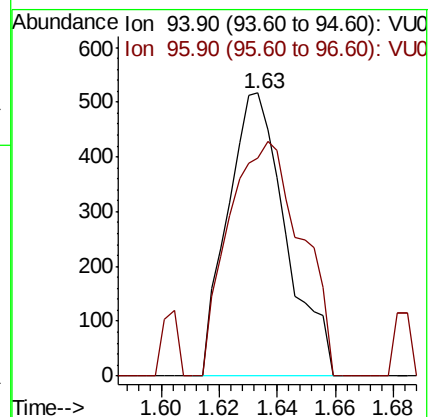
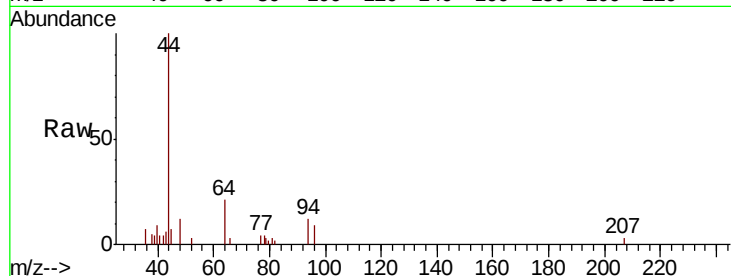
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 94 Resp: 723

Ion Ratio Lower Upper

94 100

96 77.2 76.3 114.5



#8

Diethyl Ether

Concen: 0.229 ug/l

RT: 2.09 min Scan# 312

Delta R.T. 0.00 min

Lab File: VU034162.D

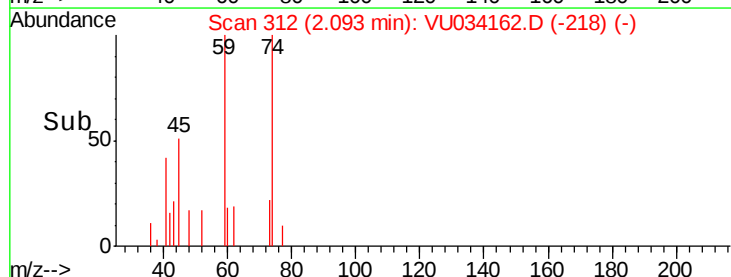
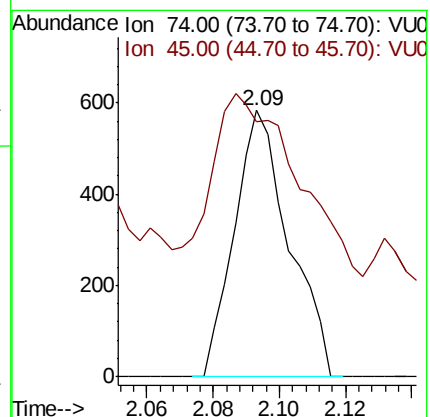
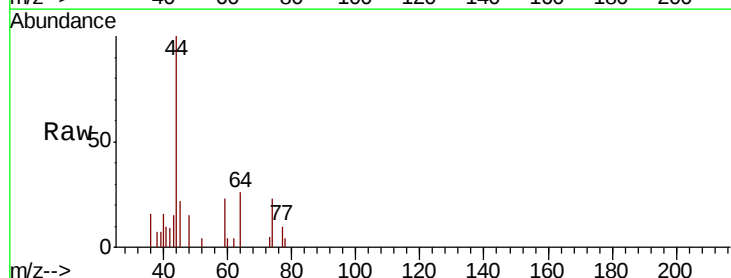
Acq: 01 Sep 2019 12:37

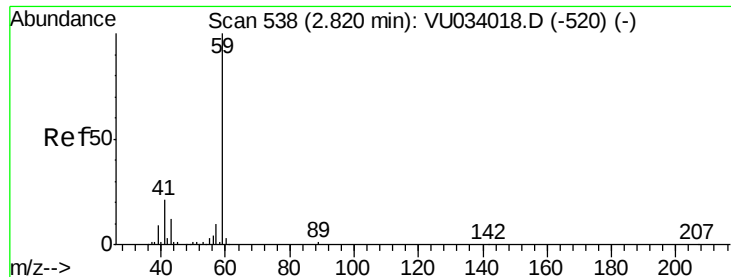
Tgt Ion: 74 Resp: 669

Ion Ratio Lower Upper

74 100

45 104.9 51.8 155.5



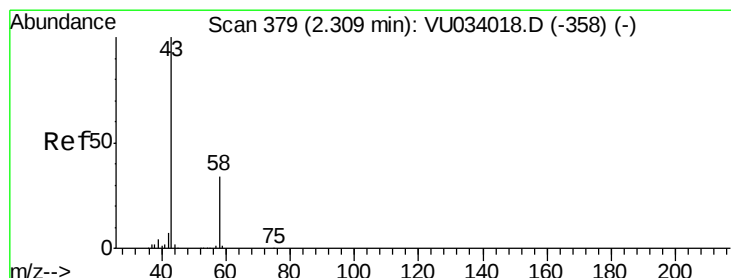
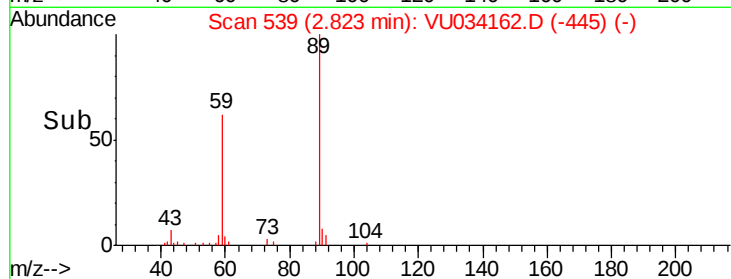
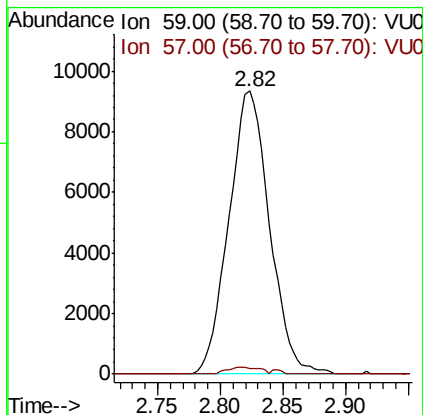
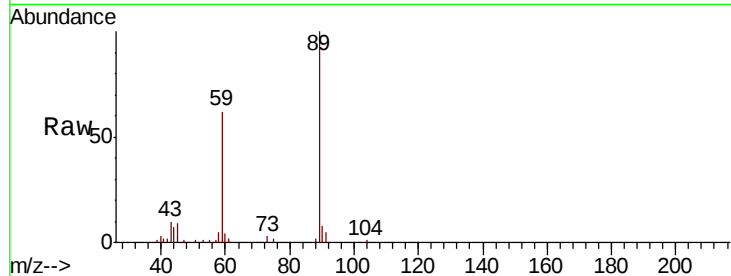


#11

Tert butyl alcohol
 Concen: 16.178 ug/l
 RT: 2.82 min Scan# 539
 Delta R.T. 0.00 min
 Lab File: VU034162.D
 Acq: 01 Sep 2019 12:37

Instrument :
 MSVOA_U
 ClientSampled :

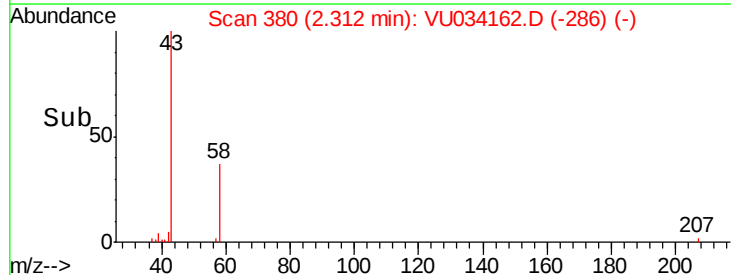
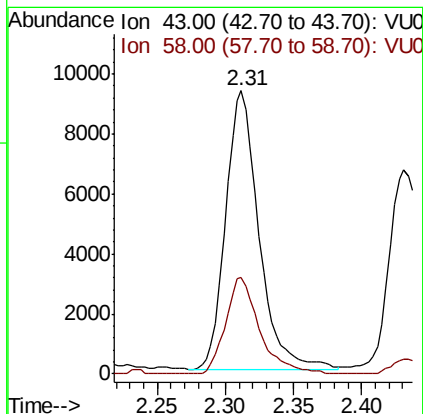
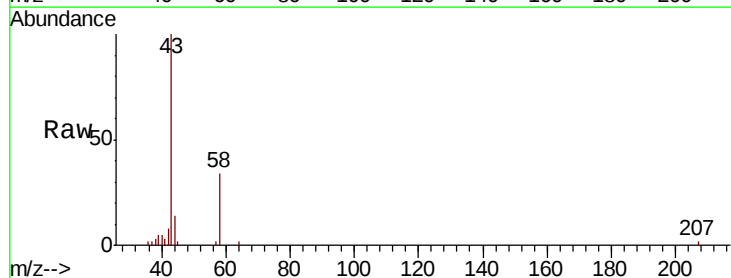
Tot Ion: 59 Resp: 21039
 Ion Ratio Lower Upper
 59 100
 57 1.9 8.0 12.0#

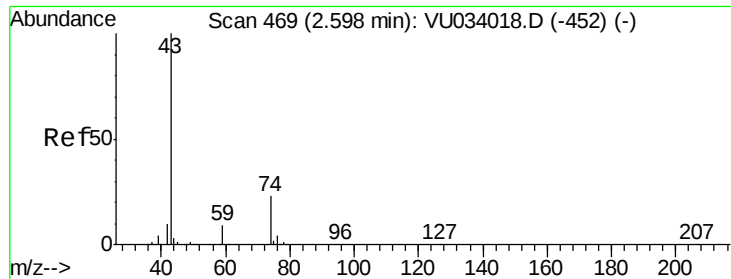


#16

Acetone
 Concen: 5.456 ug/l
 RT: 2.31 min Scan# 380
 Delta R.T. 0.00 min
 Lab File: VU034162.D
 Acq: 01 Sep 2019 12:37

Tgt Ion: 43 Resp: 15700
 Ion Ratio Lower Upper
 43 100
 58 34.7 26.8 40.2

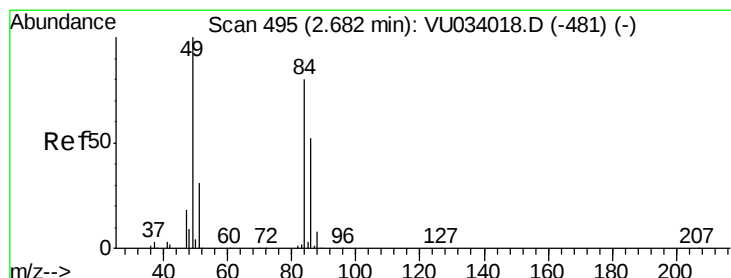
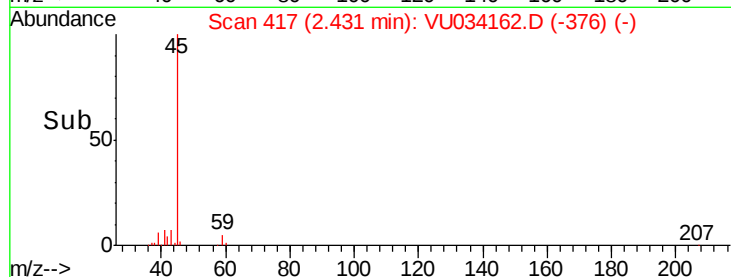
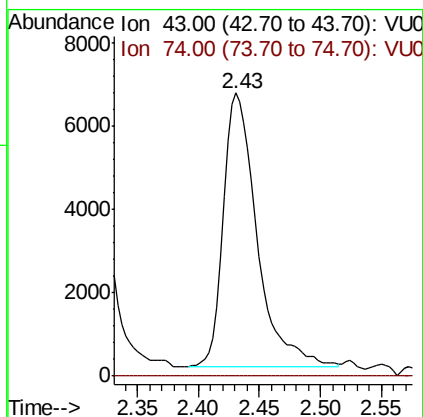
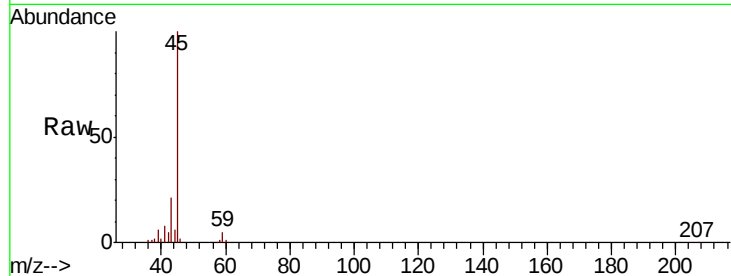




#18
Methvl Acetate
Concen: 1.707 ug/l
RT: 2.43 min Scan# 417
Delta R.T. -0.17 min
Lab File: VU034162.D
Acq: 01 Sep 2019 12:37

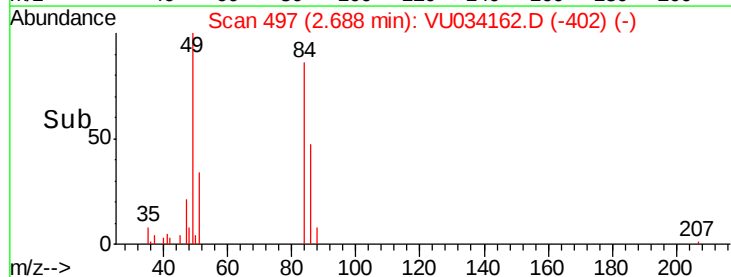
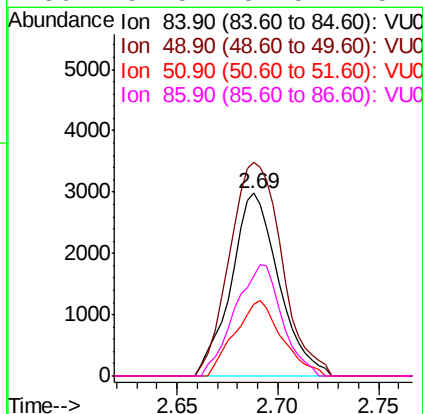
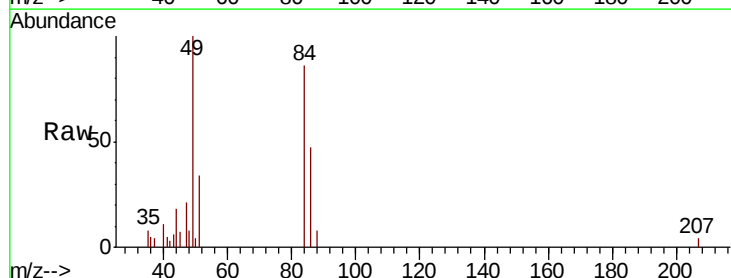
Instrument :
MSVOA_U
ClientSampleId :

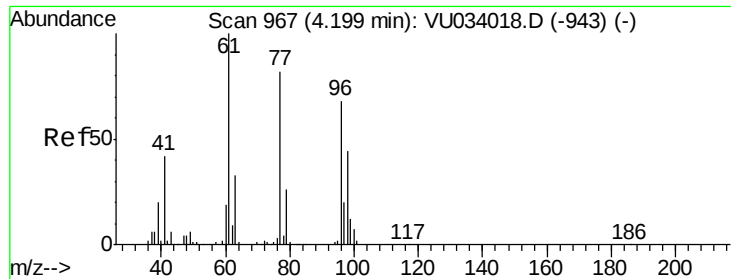
Tot Ion: 43 Resp: 12692
Ion Ratio Lower Upper
43 100
74 0.0 19.2 28.8#



#20
Methylene Chloride
Concen: 0.904 ug/l
RT: 2.69 min Scan# 497
Delta R.T. 0.01 min
Lab File: VU034162.D
Acq: 01 Sep 2019 12:37

Tgt Ion: 84 Resp: 4922
Ion Ratio Lower Upper
84 100
49 116.8 100.2 150.4
51 39.5 30.8 46.2
86 54.5 52.5 78.7





#26

2,2-Dichloropropane

Concen: 0.449 ug/l

RT: 4.17 min Scan# 958

Delta R.T. -0.03 min

Lab File: VU034162.D

Acq: 01 Sep 2019 12:37

Instrument :

MSVOA_U

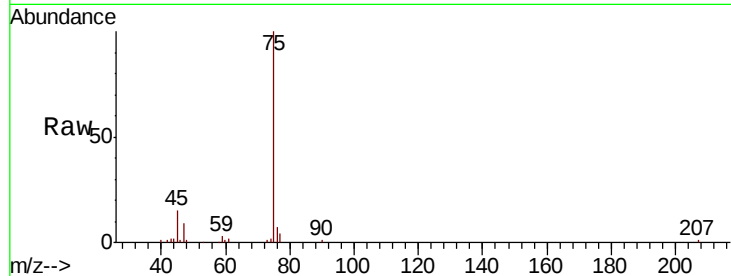
ClientSampleId :

Tot Ion: 77 Resp: 3276

Ion Ratio Lower Upper

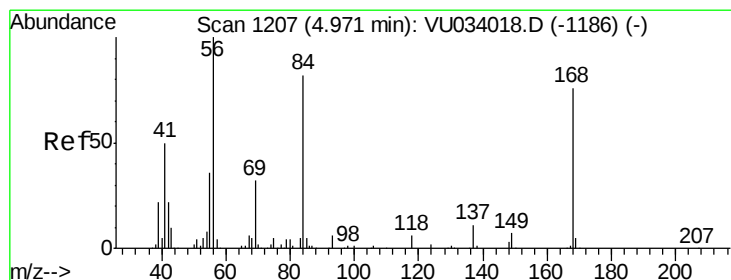
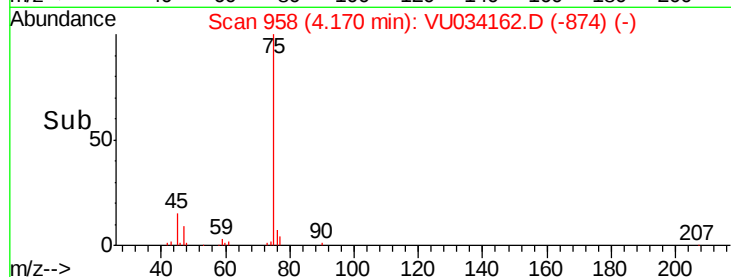
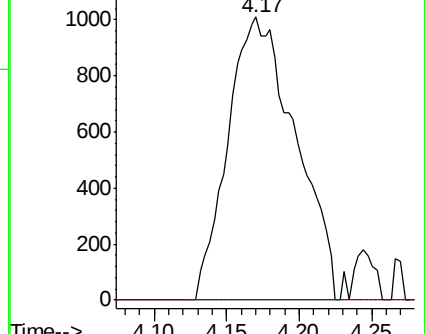
77 100

97 0.0 11.6 34.7#



Abundance Ion 76.90 (76.60 to 77.60): VU034162.D (-943) (-)

Ion 96.90 (96.60 to 97.60): VU034162.D (-943) (-)



#31

Cyclohexane

Concen: 0.941 ug/l

RT: 4.96 min Scan# 1205

Delta R.T. -0.01 min

Lab File: VU034162.D

Acq: 01 Sep 2019 12:37

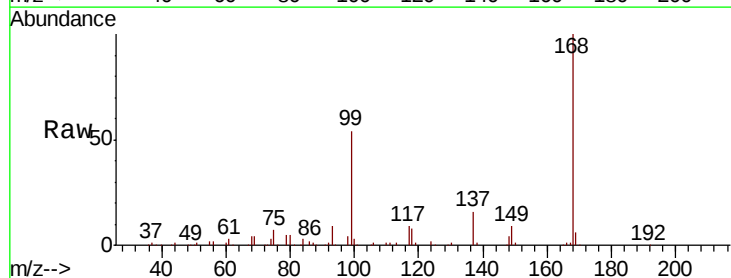
Tgt Ion: 56 Resp: 7920

Ion Ratio Lower Upper

56 100

69 193.1 25.4 38.0#

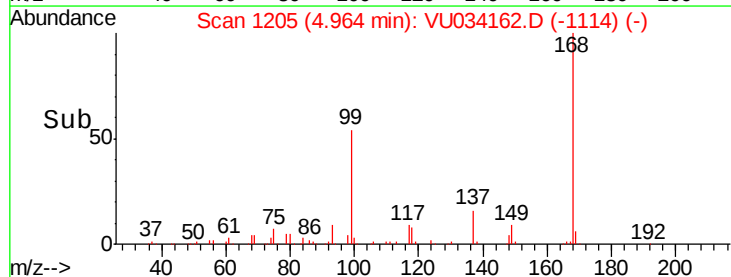
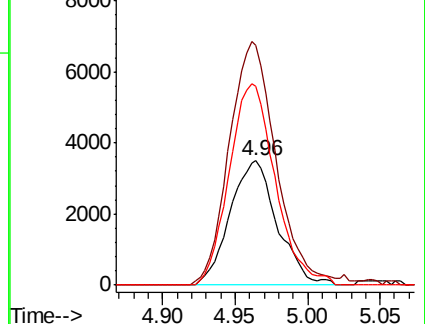
84 160.2 65.8 98.8#

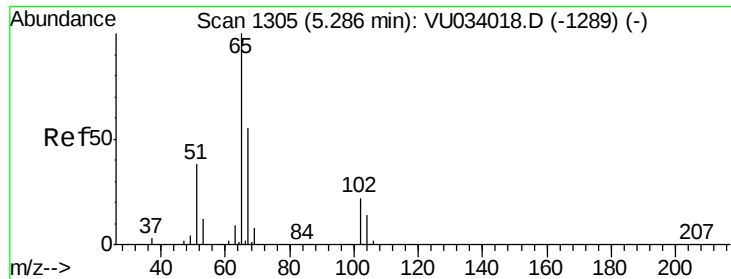


Abundance Ion 56.00 (55.70 to 56.70): VU034162.D (-1114) (-)

Ion 69.00 (68.70 to 69.70): VU034162.D (-1114) (-)

Ion 84.00 (83.70 to 84.70): VU034162.D (-1114) (-)





#33

1,2-Dichloroethane-d4

Concen: 49.781 ug/l

RT: 5.29 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VU034162.D

Acq: 01 Sep 2019 12:37

Instrument :

MSVOA_U

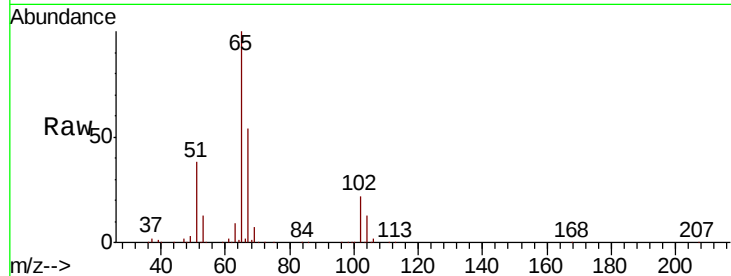
ClientSampleId :

Tot Ion: 65 Resp: 280729

Ion Ratio Lower Upper

65 100

67 53.6 0.0 110.6



Abundance Ion 64.90 (64.60 to 65.60): VU034162.D (-1212) (-)

Ion 66.90 (66.60 to 67.60): VU034162.D (-1212) (-)

5.29

150000

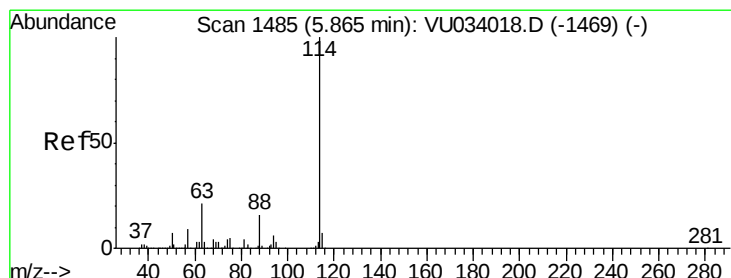
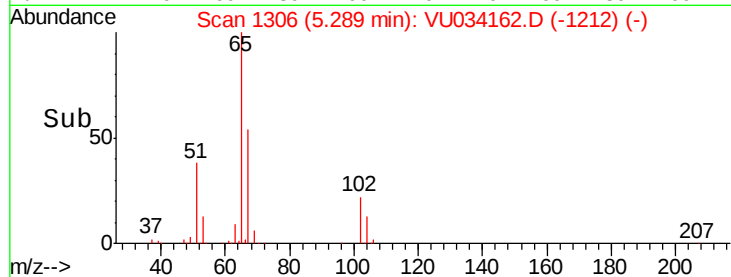
100000

50000

0

Time-->

5.20 5.30 5.40



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.87 min Scan# 1486

Delta R.T. 0.00 min

Lab File: VU034162.D

Acq: 01 Sep 2019 12:37

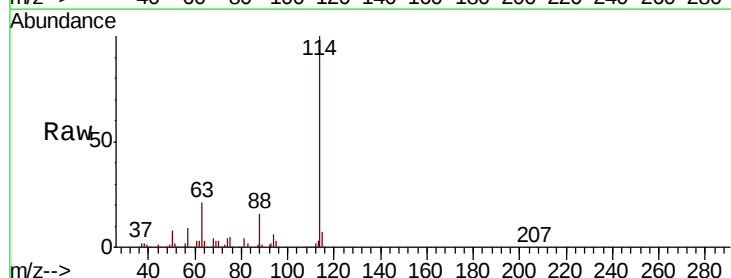
Tgt Ion: 114 Resp: 710088

Ion Ratio Lower Upper

114 100

63 21.1 0.0 42.0

88 16.2 0.0 32.0



Abundance Ion 113.90 (113.60 to 114.60): VU034162.D (-1392) (-)

Ion 63.00 (62.70 to 63.70): VU034162.D (-1392) (-)

Ion 87.90 (87.60 to 88.60): VU034162.D (-1392) (-)

5.87

400000

300000

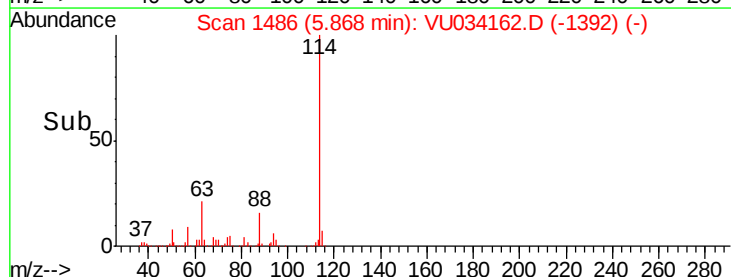
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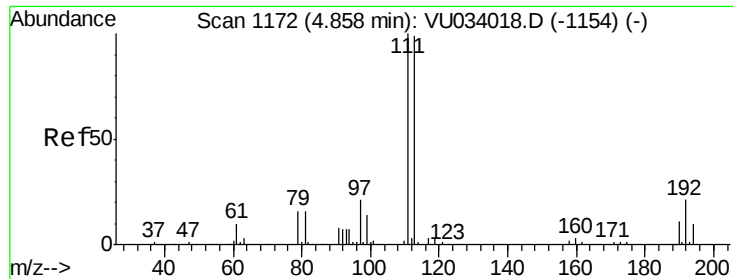
100000

0

Time-->

5.70 5.80 5.90 6.00 6.10

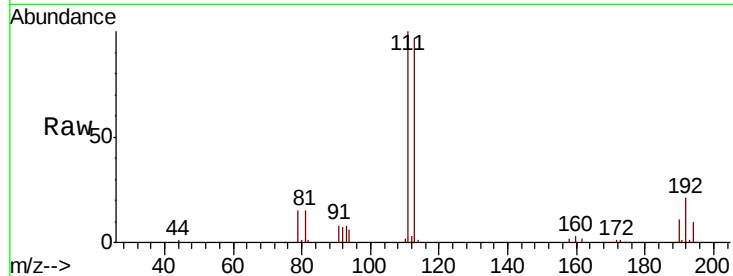




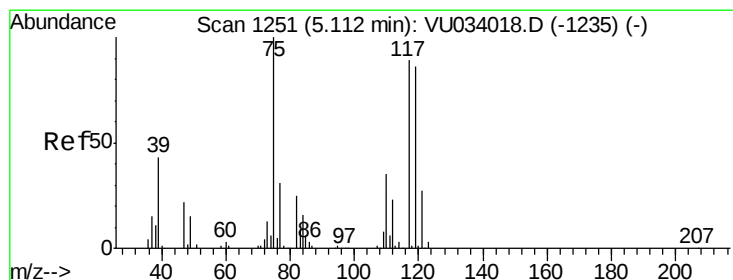
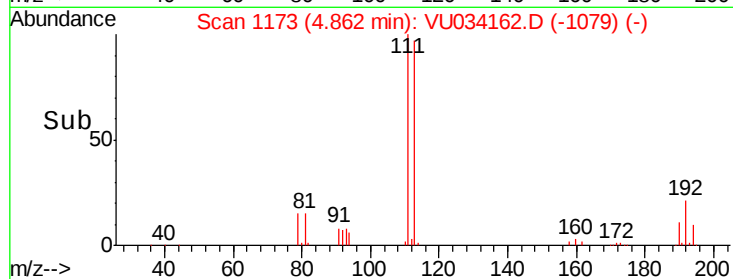
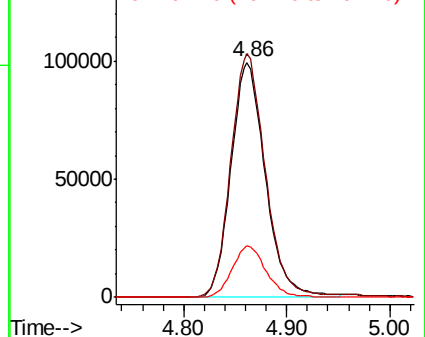
#35
 Dibromofluoromethane
 Concen: 46.966 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034162.D
 Acq: 01 Sep 2019 12:37

Instrument :
 MSVOA_U
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
113	100		
111	103.6	81.7	122.5
192	21.6	17.1	25.7

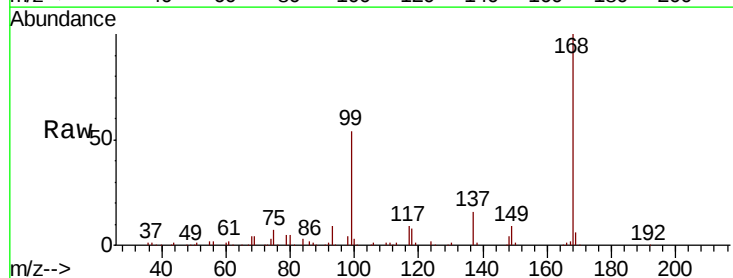


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

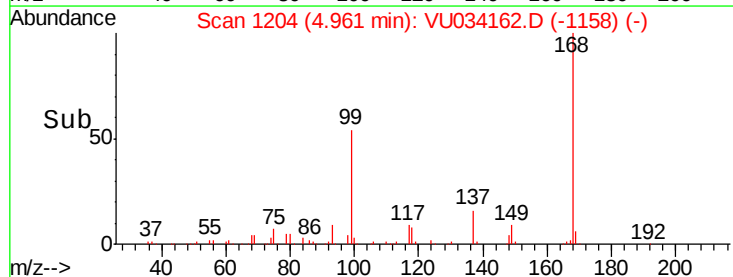
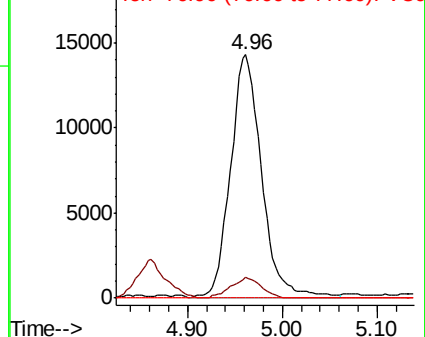


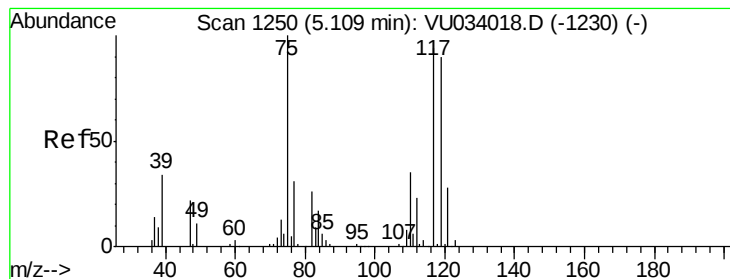
#36
 1,1-Dichloropropene
 Concen: 4.893 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034162.D
 Acq: 01 Sep 2019 12:37

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.2	17.8	53.5#
77	0.0	25.0	37.4#



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: 6.264 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.15 min

Lab File: VU034162.D

Acq: 01 Sep 2019 12:37

Instrument :

MSVOA_U

ClientSampleId :

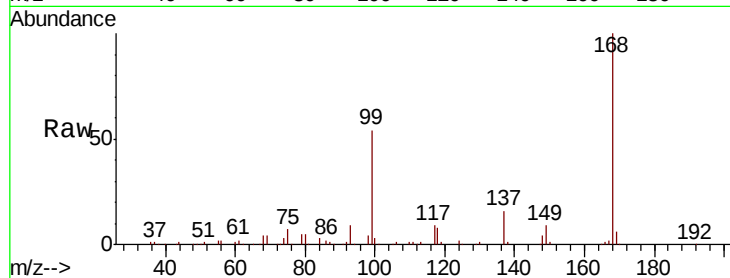
Tot Ion:117 Resp: 40613

Ion Ratio Lower Upper

117 100

119 6.4 77.0 115.4#

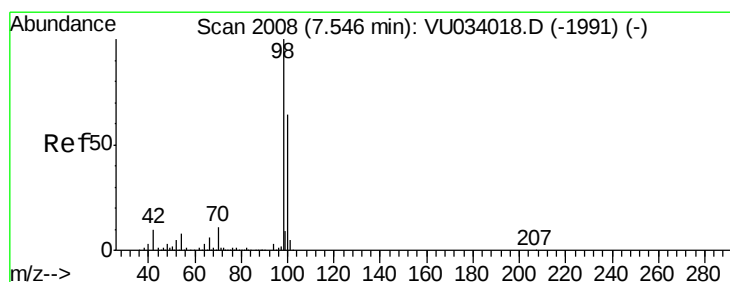
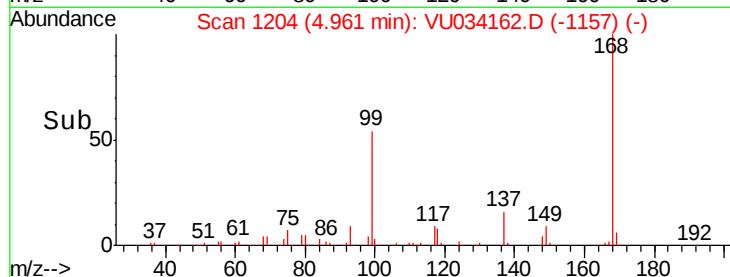
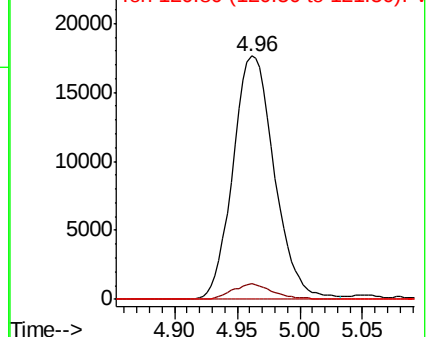
121 0.0 23.9 35.9#



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: 48.251 ug/l

RT: 7.55 min Scan# 2008

Delta R.T. -0.00 min

Lab File: VU034162.D

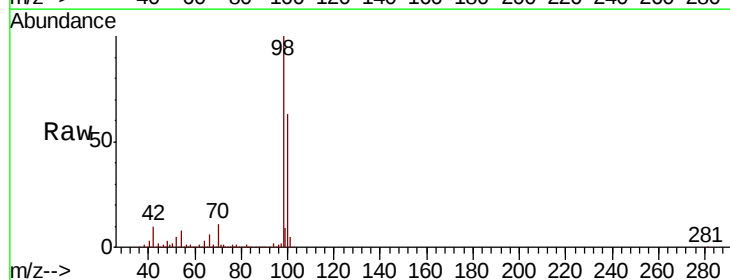
Acq: 01 Sep 2019 12:37

Tgt Ion: 98 Resp: 889826

Ion Ratio Lower Upper

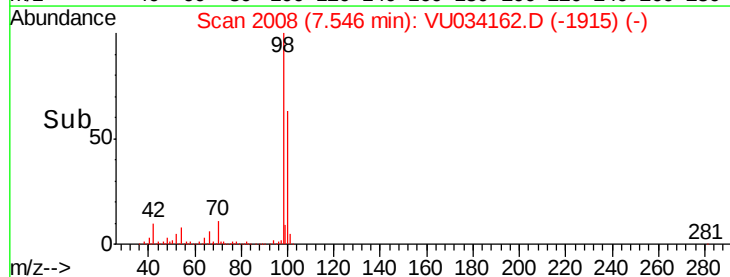
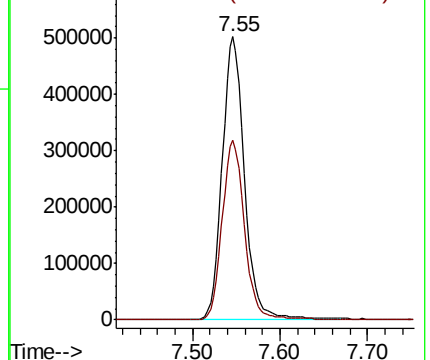
98 100

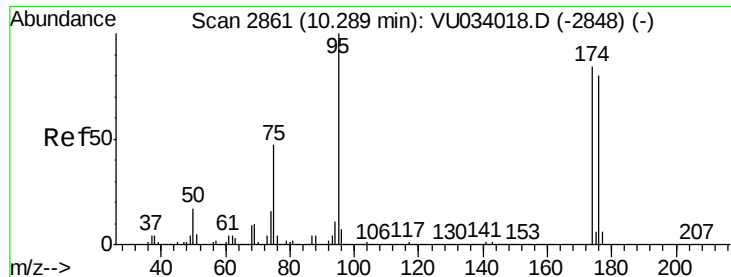
100 64.3 50.3 75.5



Abundance Ion 98.00 (97.70 to 98.70): VU0

Ion 100.00 (99.70 to 100.70): VU





#62

4-Bromofluorobenzene

Concen: 43.404 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.00 min

Lab File: VU034162.D

Acq: 01 Sep 2019 12:37

Instrument :

MSVOA_U

ClientSampleId :

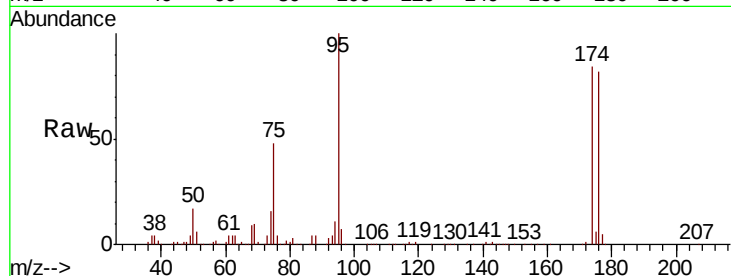
Tot Ion: 95 Resp: 311361

Ion Ratio Lower Upper

95 100

174 85.3 0.0 168.8

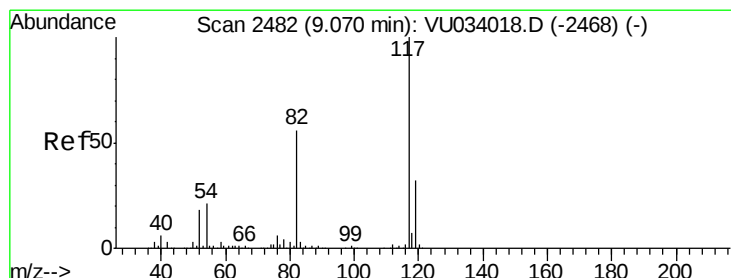
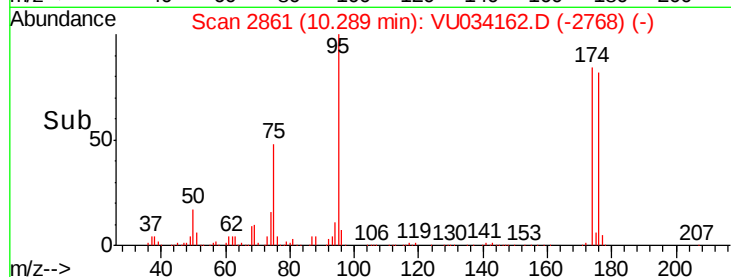
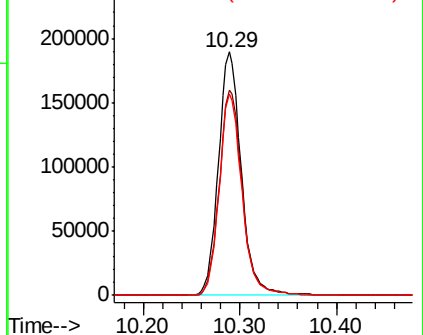
176 81.9 0.0 161.8



Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.07 min Scan# 2482

Delta R.T. -0.00 min

Lab File: VU034162.D

Acq: 01 Sep 2019 12:37

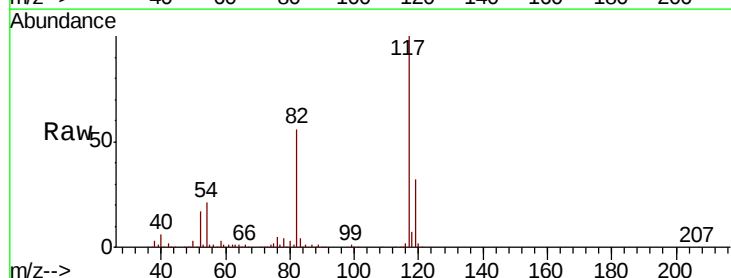
Tgt Ion: 117 Resp: 676829

Ion Ratio Lower Upper

117 100

82 56.4 45.1 67.7

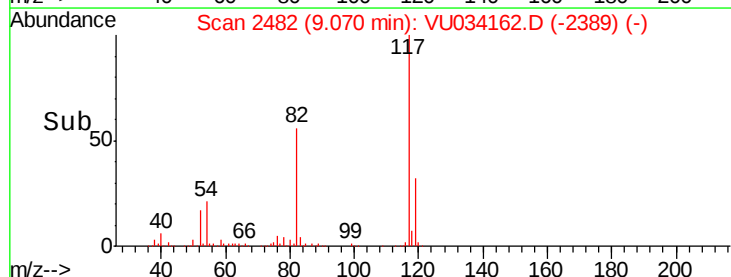
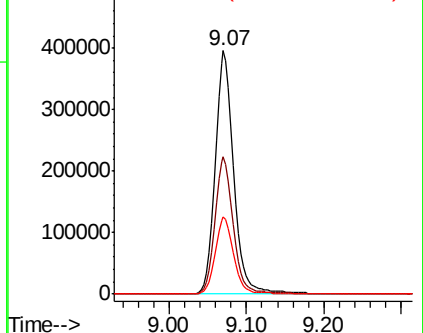
119 31.8 25.4 38.0

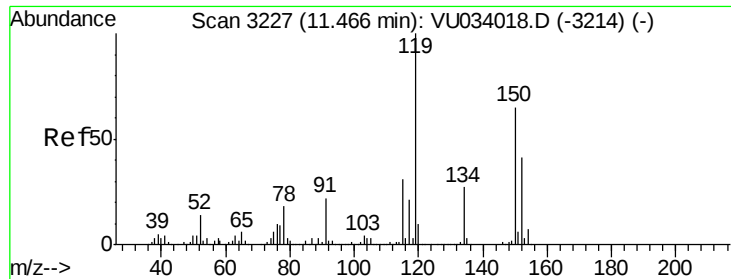


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VU0

Ion 118.90 (118.60 to 119.60): V



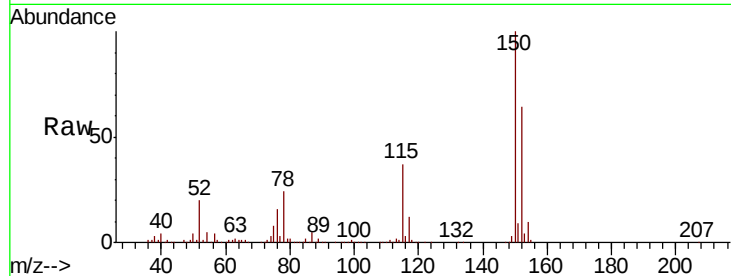


#72

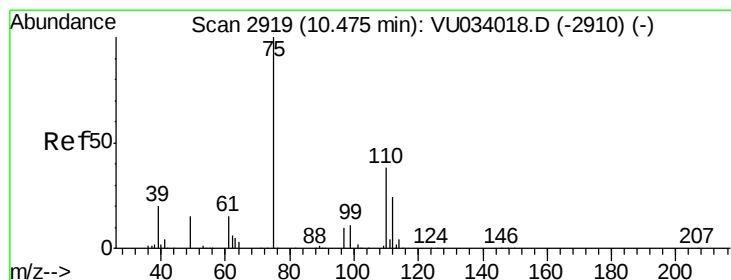
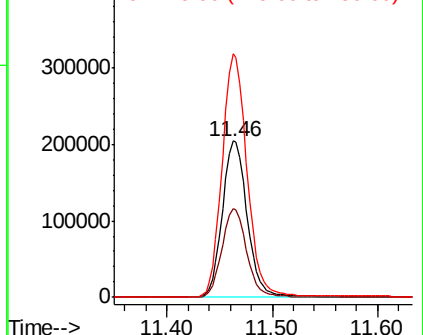
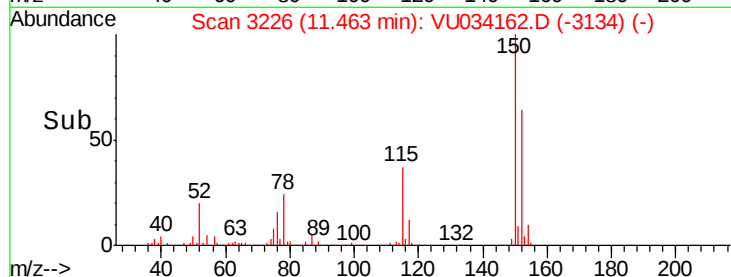
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.46 min Scan# 3226
Delta R.T. -0.00 min
Lab File: VU034162.D
Acq: 01 Sep 2019 12:37

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
115	57.1	41.1	123.3
150	155.8	0.0	348.8



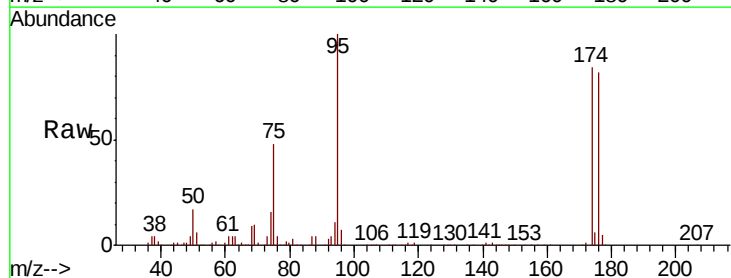
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



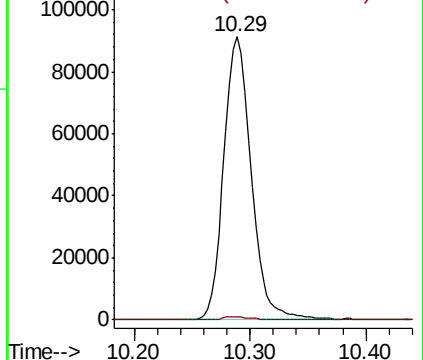
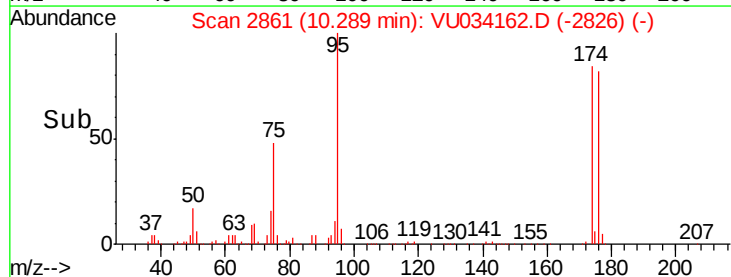
#76

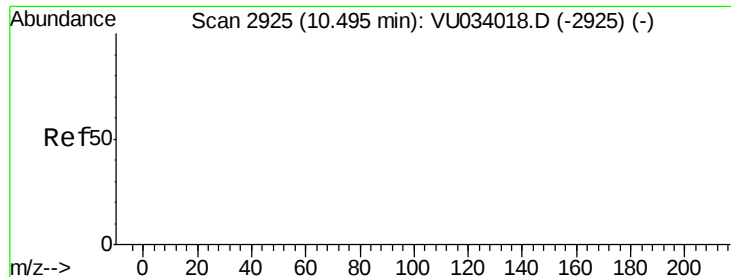
1,2,3-Trichloropropane
Concen: 19.796 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. -0.19 min
Lab File: VU034162.D
Acq: 01 Sep 2019 12:37

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.2	20.1	60.2



Abundance Ion 74.90 (74.60 to 75.60): VU0
Ion 77.00 (76.70 to 77.70): VU0

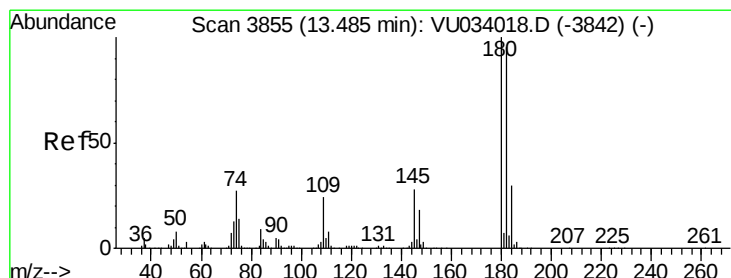
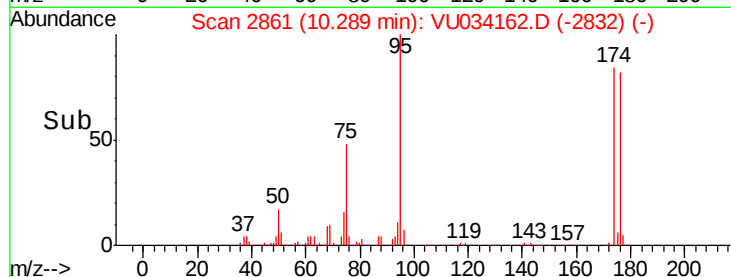
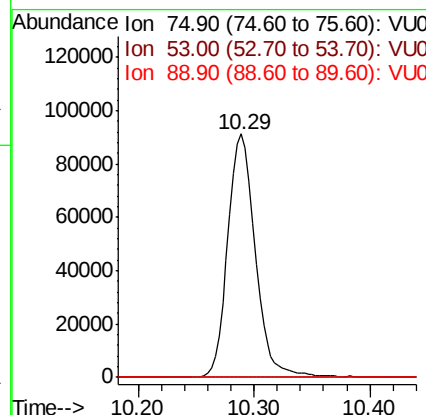
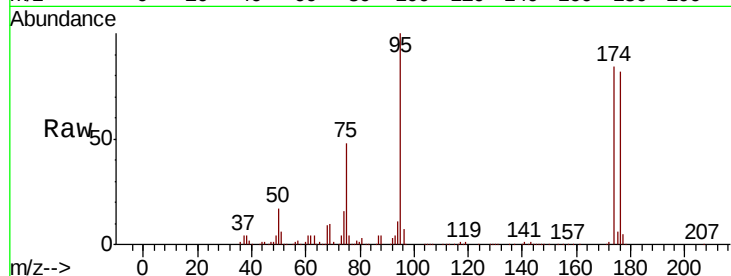




#81
trans-1,4-Dichloro-2-butene
Concen: 66.659 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. -0.21 min
Lab File: VU034162.D
Acq: 01 Sep 2019 12:37

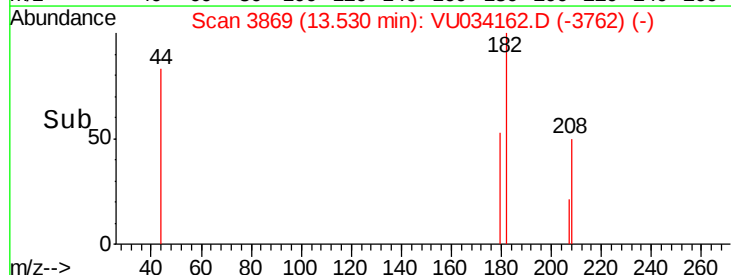
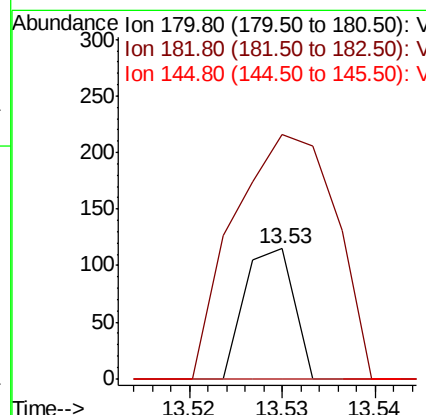
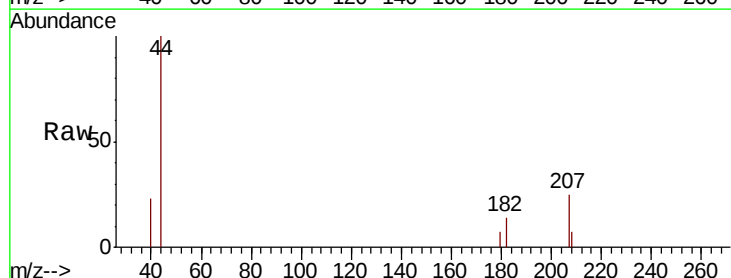
Instrument :
MSVOA_U
ClientSampleId :

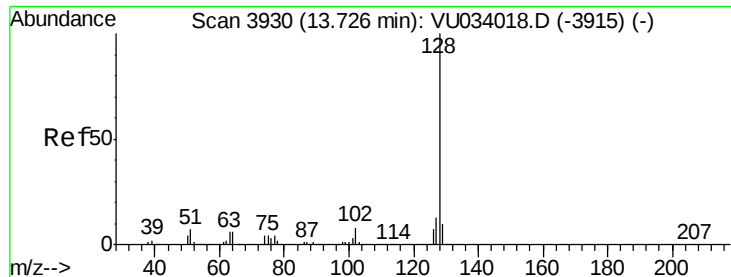
Tot Ion: 75 Resp: 149873
Ion Ratio Lower Upper
75 100
53 0.1 0.0 0.0#
89 0.0 0.0 0.0



#93
1,2,4-Trichlorobenzene
Concen: 1.120 ug/l
RT: 13.53 min Scan# 3869
Delta R.T. 0.04 min
Lab File: VU034162.D
Acq: 01 Sep 2019 12:37

Tgt Ion:180 Resp: 42
Ion Ratio Lower Upper
180 100
182 392.9 47.4 142.2#
145 0.0 14.1 42.3#





#95
 Naphthalene
 Concen: 1.800 ug/l
 RT: 13.76 min Scan# 3940
 Delta R.T. 0.03 min
 Lab File: VU034162.D
 Acq: 01 Sep 2019 12:37

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.2	15.4#
129	0.0	8.4	12.6#

