

Data File : VU034481.D
Acq On : 11 Sep 2019 17:56
Operator : JC/SP
Sample : VU0912WBL01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VU0912WBL01

Quant Time: Sep 12 04:40:02 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	233900	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.86	114	346170	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	345639	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	196581	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.29	65	205127	57.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	115.92%	
35) Dibromofluoromethane	4.86	113	181280	56.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	112.56%	
50) Toluene-d8	7.55	98	619291	51.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.34%	
62) 4-Bromofluorobenzene	10.29	95	212784	45.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.08%	

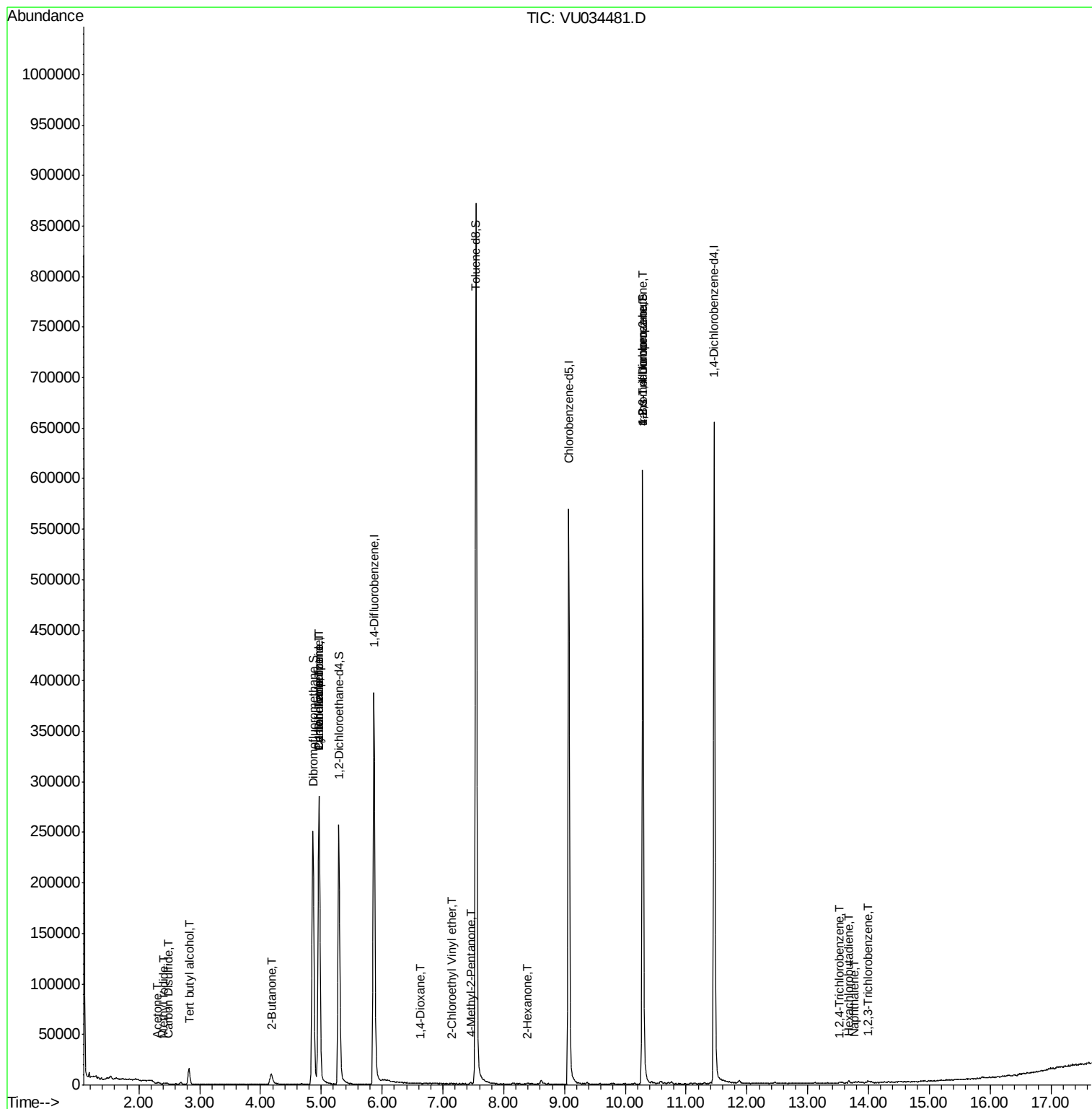
Target Compounds					Qvalue	
5) Bromomethane	1.63	94	781	Below Cal		99
6) Chloroethane	1.75	64	132	Below Cal	#	43
10) Methyl Iodide	2.41	142	668	4.095	ug/l #	75
11) Tert butyl alcohol	2.83	59	9472	12.669	ug/l #	74
16) Acetone	2.31	43	833	0.455	ug/l	90
17) Carbon Disulfide	2.47	76	1214	0.212	ug/l #	75
20) Methylene Chloride	2.69	84	747	Below Cal	#	76
25) 2-Butanone	4.18	43	595	0.243	ug/l #	48
31) Cyclohexane	4.96	56	3961	0.956	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	16476	4.389	ug/l #	48
38) Carbon Tetrachloride	4.96	117	20898	5.213	ug/l #	16
49) 1,4-Dioxane	6.62	88	71	0.989	ug/l #	33
51) 4-Methyl-2-Pentanone	7.45	43	2076	0.433	ug/l #	76
58) 2-Chloroethyl Vinyl ether	7.14	63	178	16.709	ug/l #	48
59) 2-Hexanone	8.39	43	1208	0.337	ug/l	71
76) 1,2,3-Trichloropropane	10.29	75	99149	23.106	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.29	75	99149	77.705	ug/l #	100
93) 1,2,4-Trichlorobenzene	13.52	180	317	3.515	ug/l #	49
94) Hexachlorobutadiene	13.67	225	879	0.392	ug/l	91
95) Naphthalene	13.77	128	2596	4.148	ug/l #	84
96) 1,2,3-Trichlorobenzene	13.99	180	715	2.789	ug/l	92

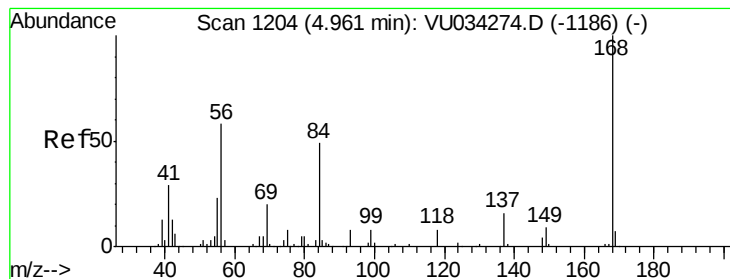
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VU034481.D

Acq: 11 Sep 2019 17:56

Instrument :

MSVOA_U

ClientSampleId :

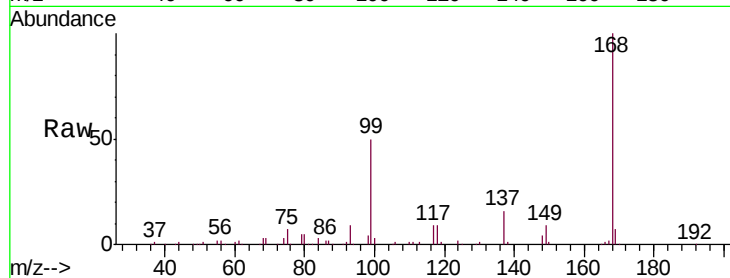
VU0912WBL01

Tgt Ion:168 Resp: 233900

Ion Ratio Lower Upper

168 100

99 50.4 41.6 62.4



Abundance Ion 167.90 (167.60 to 168.60): VU034274.D (-1186) (-)

Ion 98.90 (98.60 to 99.60): VU034274.D (-1186) (-)

4.96

120000

100000

80000

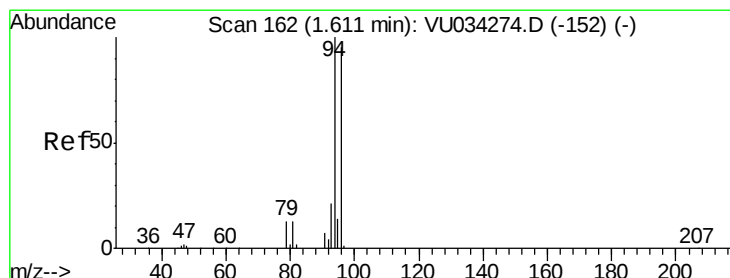
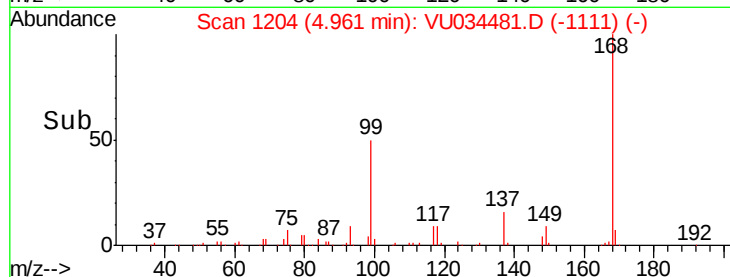
60000

40000

20000

0

Time--> 4.85 4.90 4.95 5.00 5.05



#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 168

Delta R.T. 0.02 min

Lab File: VU034481.D

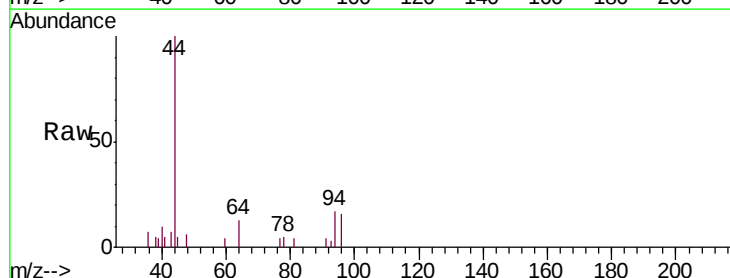
Acq: 11 Sep 2019 17:56

Tgt Ion: 94 Resp: 781

Ion Ratio Lower Upper

94 100

96 95.4 75.7 113.5



Abundance Ion 93.90 (93.60 to 94.60): VU034274.D (-152) (-)

Ion 95.90 (95.60 to 96.60): VU034274.D (-152) (-)

1.63

600

500

400

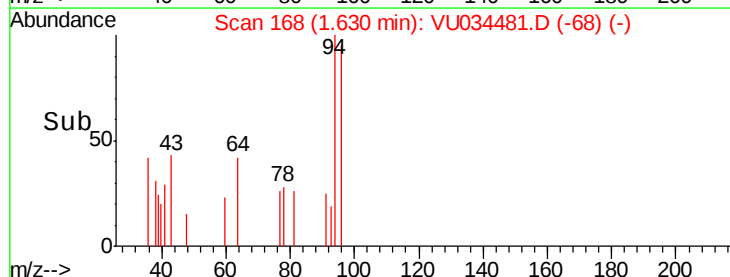
300

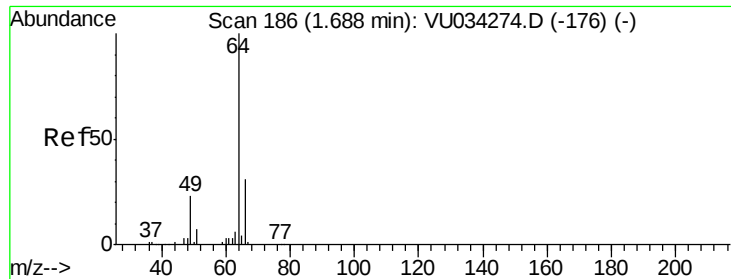
200

100

0

Time--> 1.58 1.60 1.62 1.64 1.66





#6

Chloroethane

Concen: Below Cal

RT: 1.75 min Scan# 204

Delta R.T. 0.06 min

Lab File: VU034481.D

Acq: 11 Sep 2019 17:56

Instrument :

MSVOA_U

ClientSampleId :

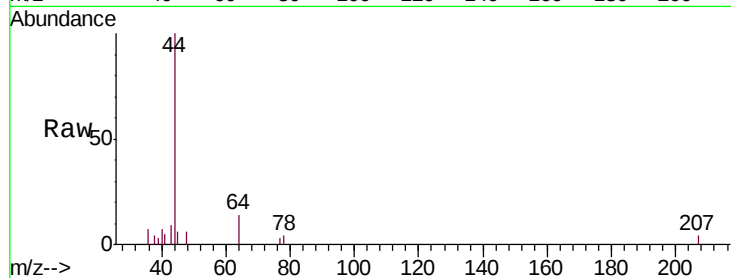
VU0912WBL01

Tgt Ion: 64 Resp: 132

Ion Ratio Lower Upper

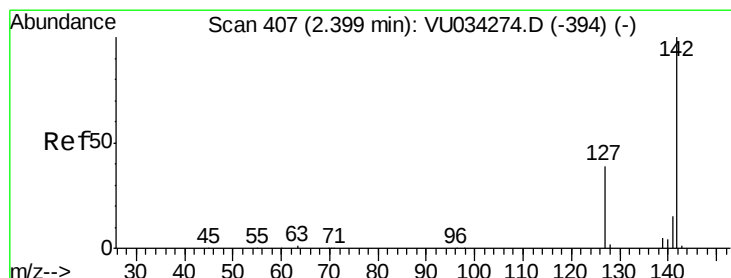
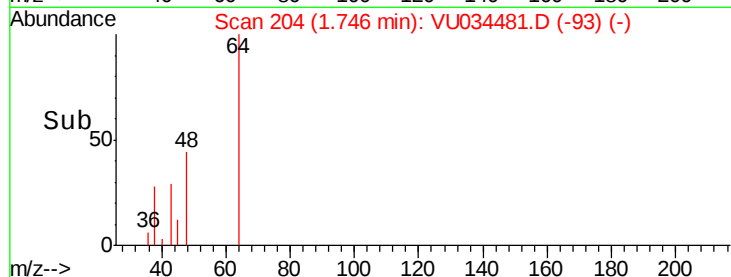
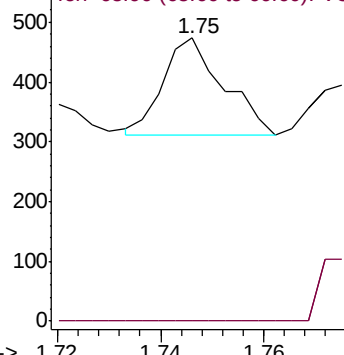
64 100

66 0.0 25.0 37.6#



Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0



#10

Methyl Iodide

Concen: 4.095 ug/l

RT: 2.41 min Scan# 411

Delta R.T. 0.01 min

Lab File: VU034481.D

Acq: 11 Sep 2019 17:56

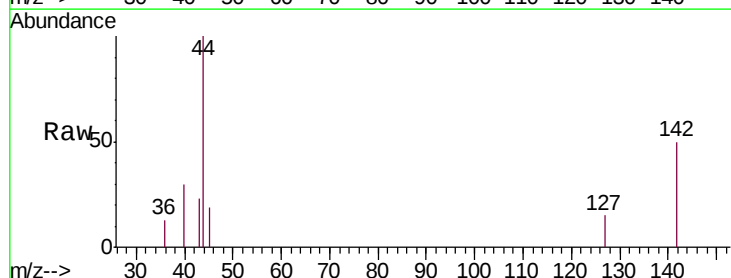
Tgt Ion: 142 Resp: 668

Ion Ratio Lower Upper

142 100

127 26.9 32.1 48.1#

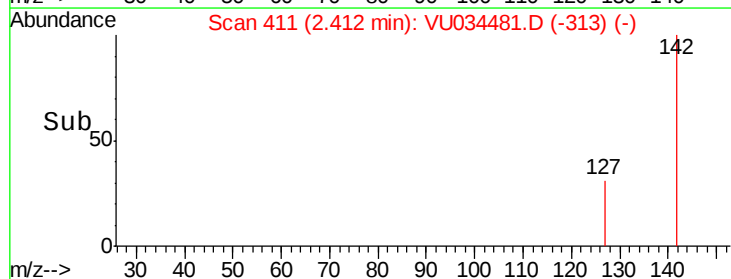
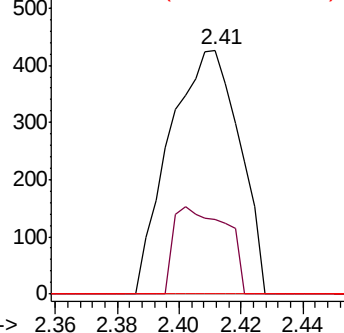
141 0.0 11.5 17.3#

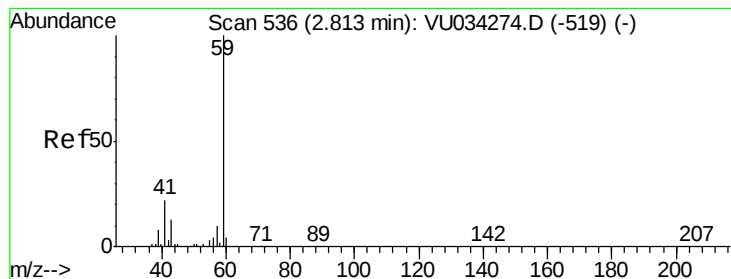


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



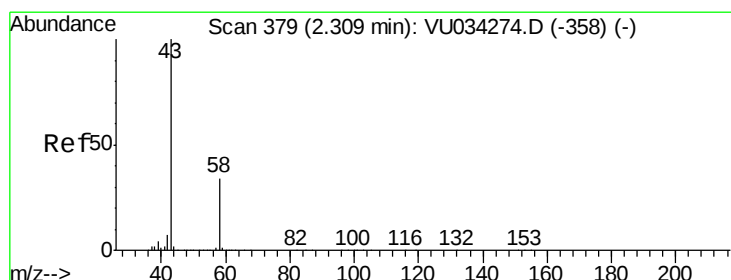
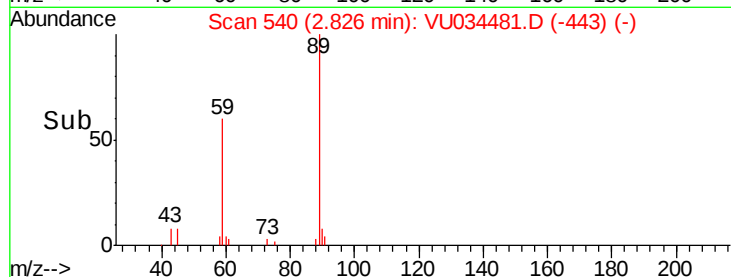
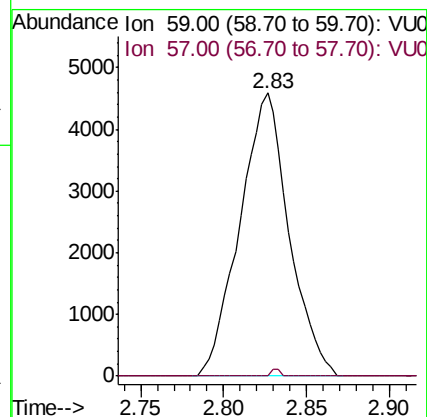
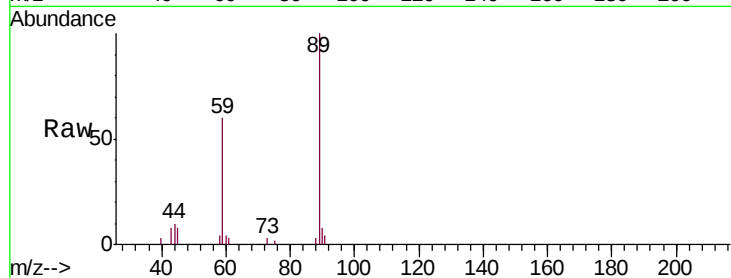


#11

Tert butyl alcohol
 Concen: 12.669 ug/l
 RT: 2.83 min Scan# 540
 Delta R.T. 0.01 min
 Lab File: VU034481.D
 Acq: 11 Sep 2019 17:56

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0912WBL01

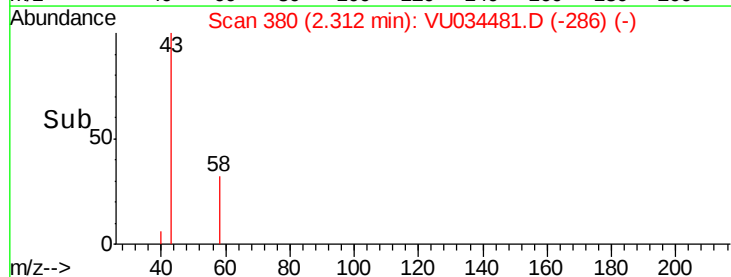
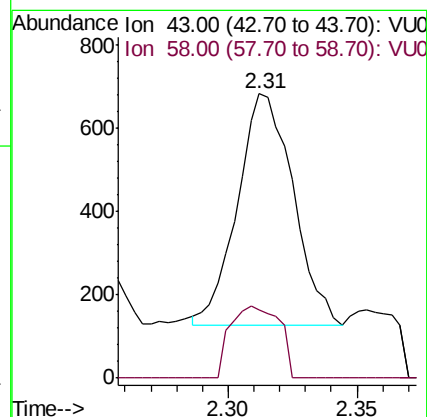
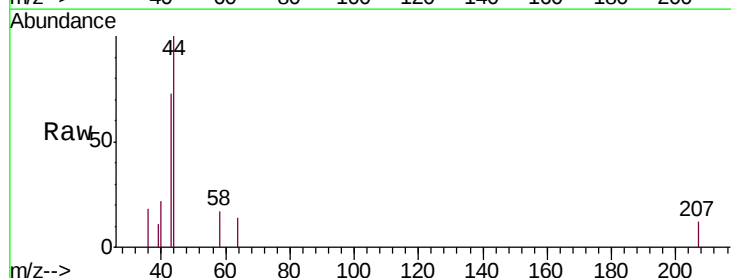
Tgt Ion: 59 Resp: 9472
 Ion Ratio Lower Upper
 59 100
 57 0.4 7.9 11.9#

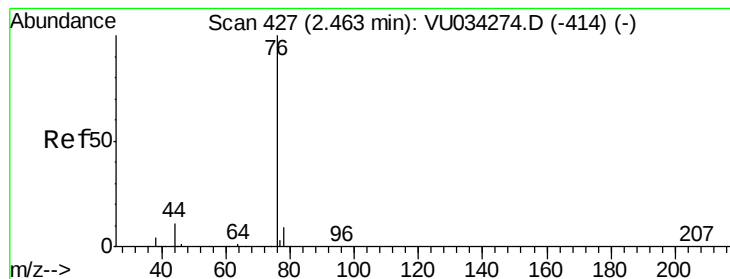


#16

Acetone
 Concen: 0.455 ug/l
 RT: 2.31 min Scan# 380
 Delta R.T. 0.00 min
 Lab File: VU034481.D
 Acq: 11 Sep 2019 17:56

Tgt Ion: 43 Resp: 833
 Ion Ratio Lower Upper
 43 100
 58 29.0 27.6 41.4





#17

Carbon Disulfide

Concen: 0.212 ug/l

RT: 2.47 min Scan# 429

Delta R.T. 0.01 min

Lab File: VU034481.D

Acq: 11 Sep 2019 17:56

Instrument :

MSVOA_U

ClientSampleId :

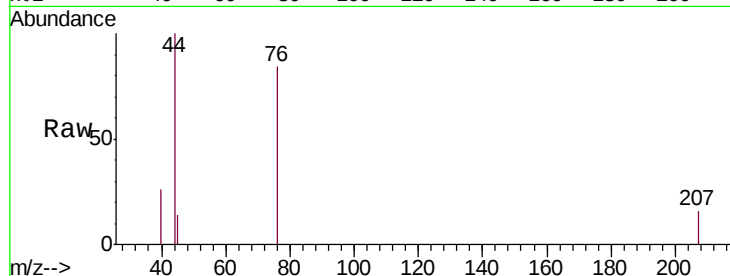
VU0912WBL01

Tgt Ion: 76 Resp: 1214

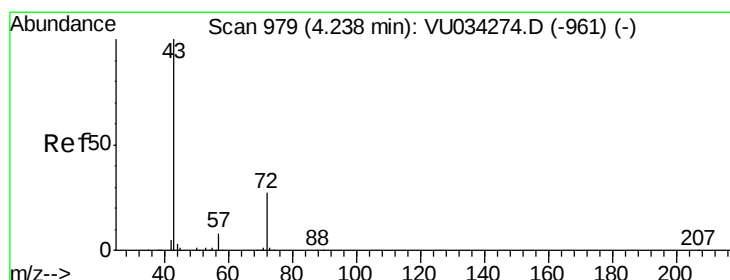
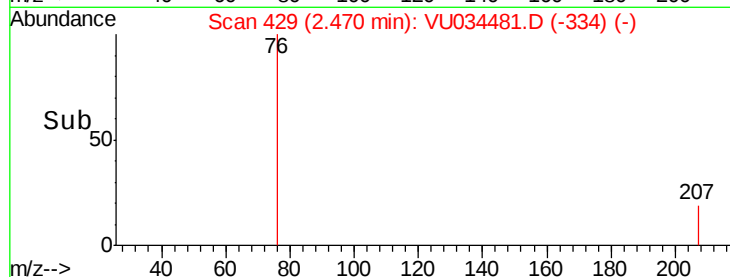
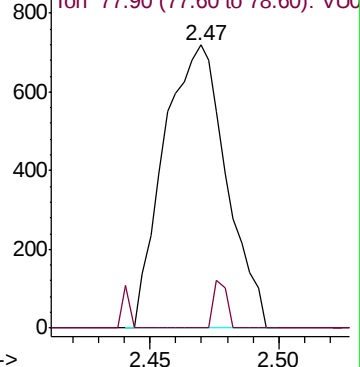
Ion Ratio Lower Upper

76 100

78 0.0 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VU034481.D (-334) (-)



#25

2-Butanone

Concen: 0.243 ug/l

RT: 4.18 min Scan# 961

Delta R.T. -0.06 min

Lab File: VU034481.D

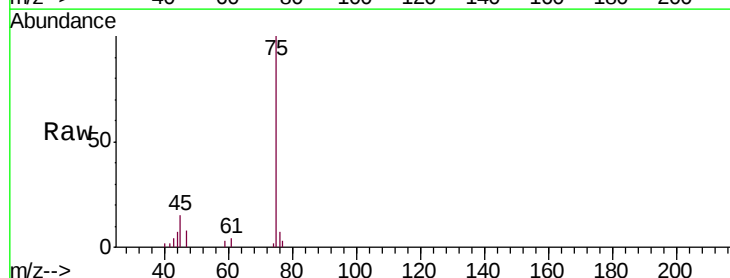
Acq: 11 Sep 2019 17:56

Tgt Ion: 43 Resp: 595

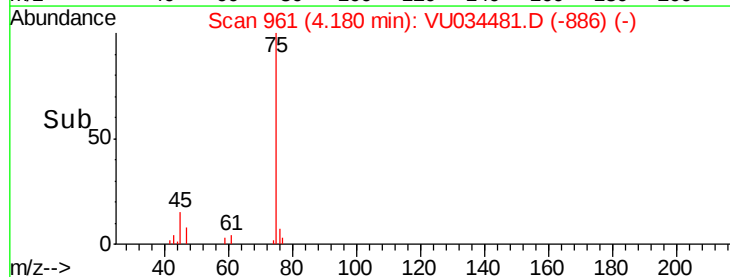
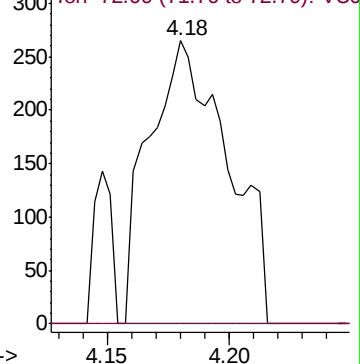
Ion Ratio Lower Upper

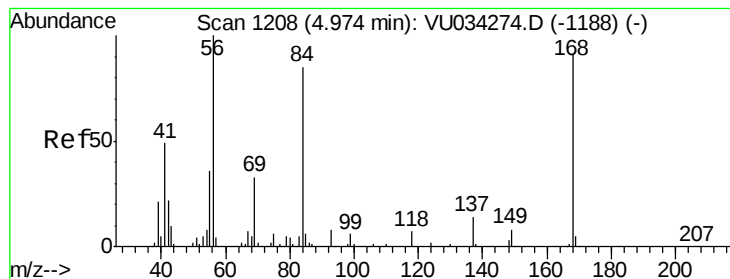
43 100

72 0.0 21.8 32.6#



Abundance Ion 43.00 (42.70 to 43.70): VU034481.D (-886) (-)





#31

Cyclohexane

Concen: 0.956 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.01 min

Lab File: VU034481.D

Acq: 11 Sep 2019 17:56

Instrument :

MSVOA_U

ClientSampleId :

VU0912WBL01

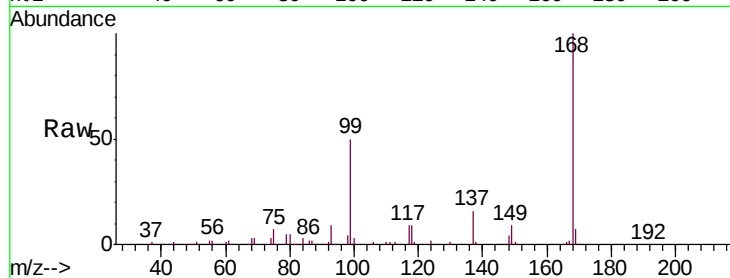
Tgt Ion: 56 Resp: 3961

Ion Ratio Lower Upper

56 100

69 188.9 26.7 40.1#

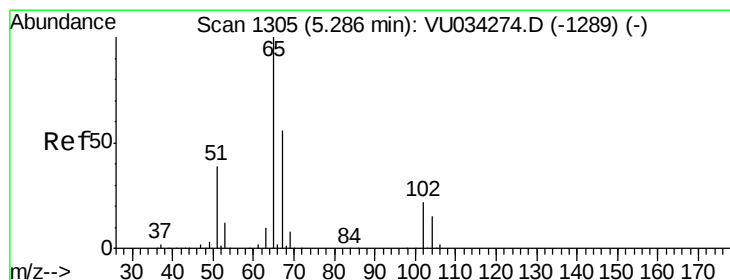
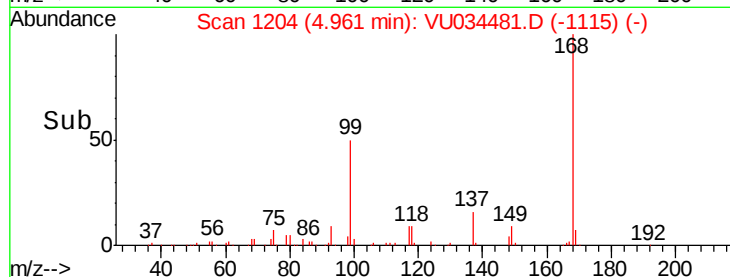
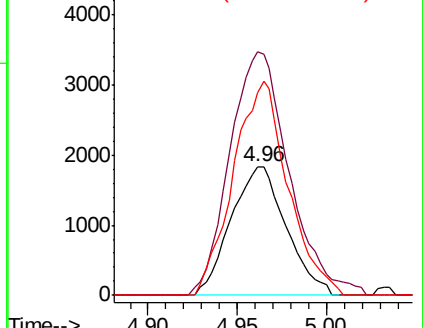
84 157.1 68.2 102.4#



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: 57.962 ug/l

RT: 5.29 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VU034481.D

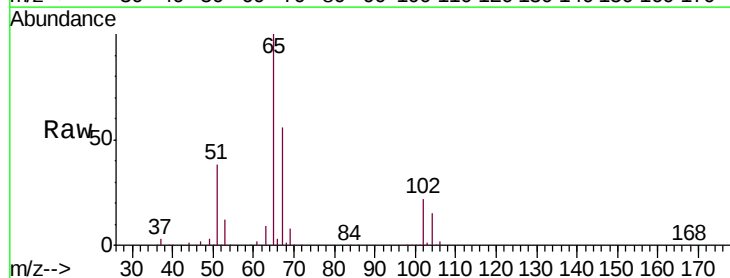
Acq: 11 Sep 2019 17:56

Tgt Ion: 65 Resp: 205127

Ion Ratio Lower Upper

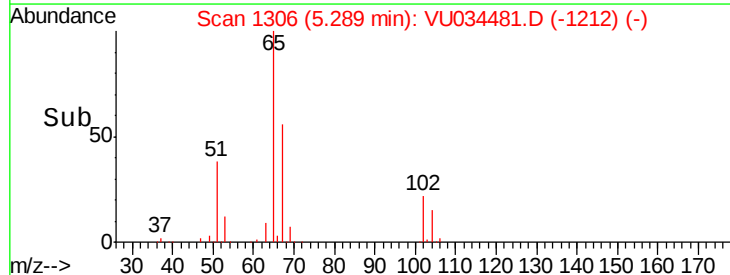
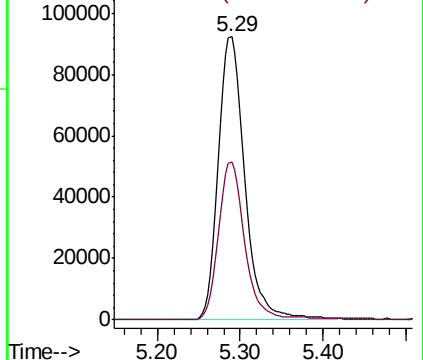
65 100

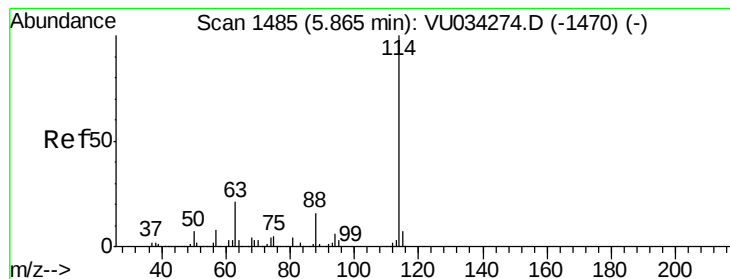
67 55.7 0.0 112.4



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: 5.86 min Scan# 1485

Delta R.T. 0.00 min

Lab File: VU034481.D

Acq: 11 Sep 2019 17:56

Instrument :

MSVOA_U

ClientSampleId :

VU0912WBL01

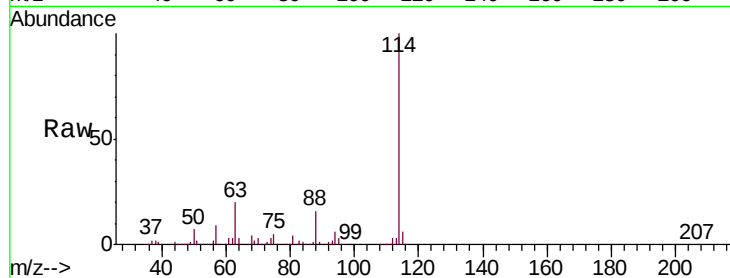
Tgt Ion:114 Resp: 346170

Ion Ratio Lower Upper

114 100

63 19.8 0.0 42.4

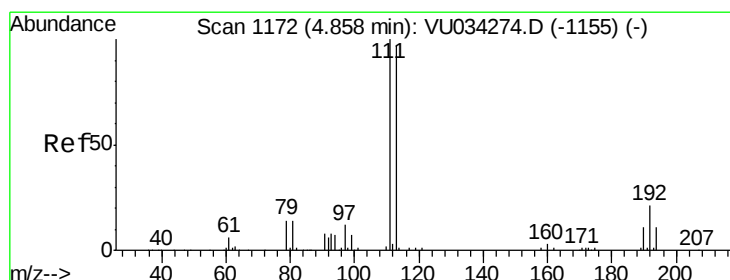
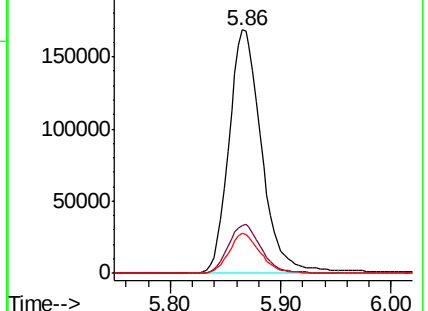
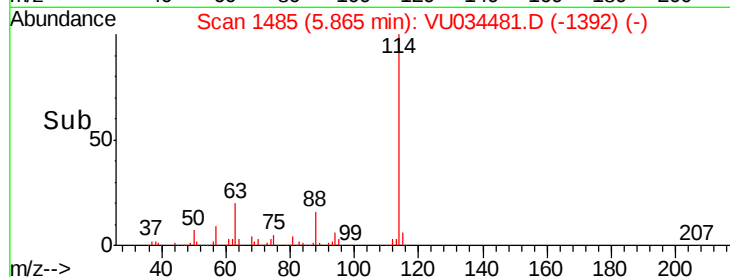
88 16.5 0.0 32.4



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: 56.278 ug/l

RT: 4.86 min Scan# 1173

Delta R.T. 0.00 min

Lab File: VU034481.D

Acq: 11 Sep 2019 17:56

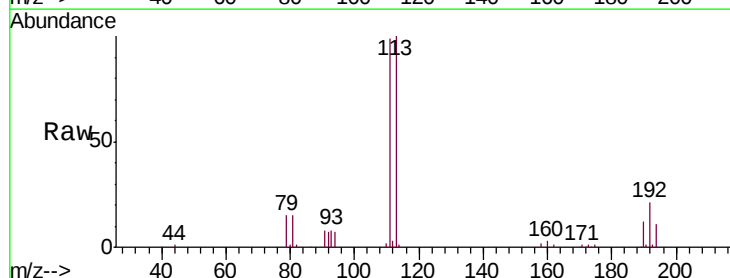
Tgt Ion:113 Resp: 181280

Ion Ratio Lower Upper

113 100

111 102.7 81.5 122.3

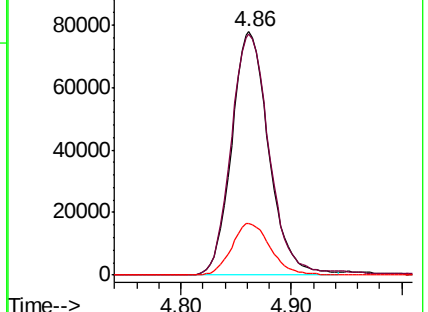
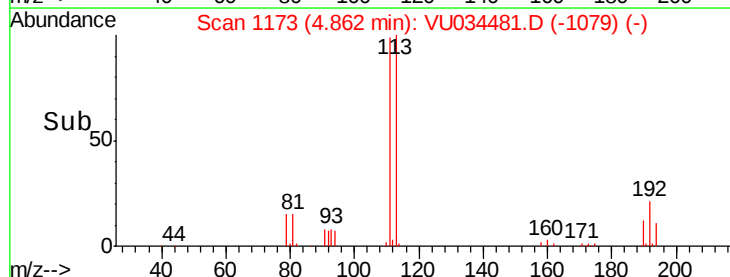
192 22.3 17.8 26.8

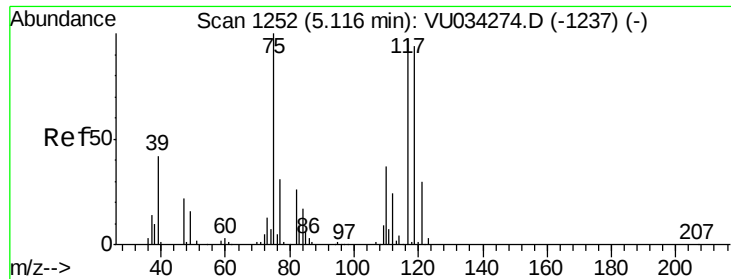


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

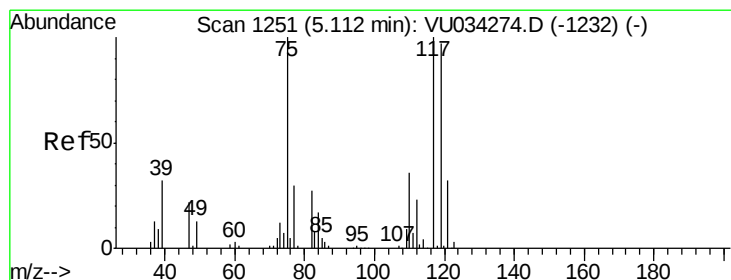
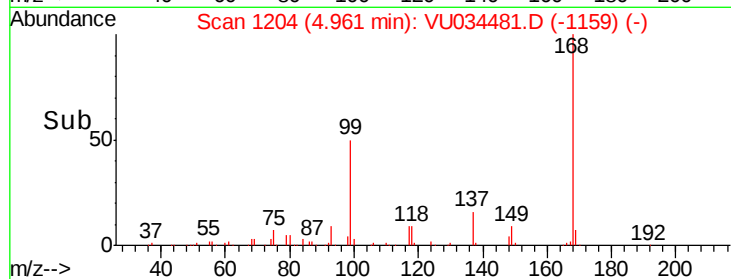
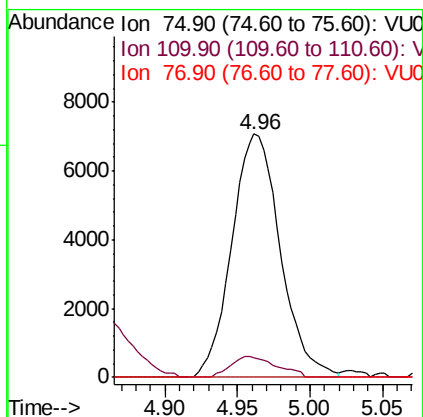
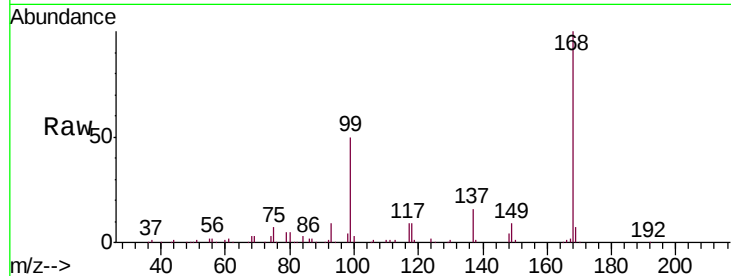




#36
 1,1-Dichloropropene
 Concen: 4.389 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034481.D
 Acq: 11 Sep 2019 17:56

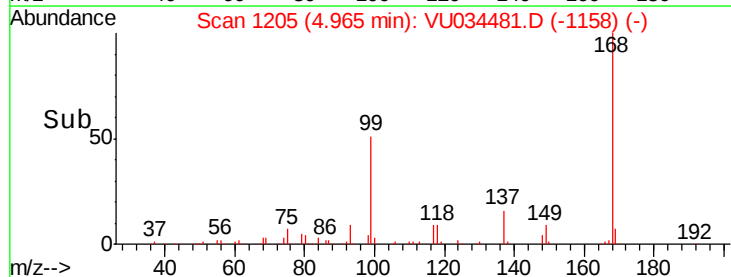
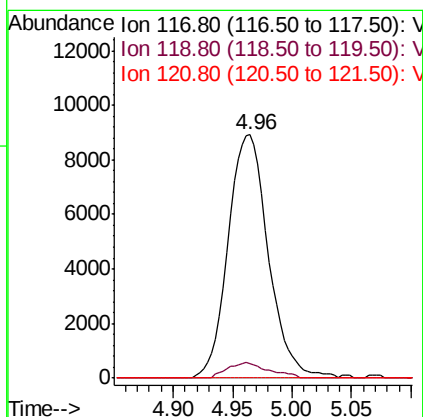
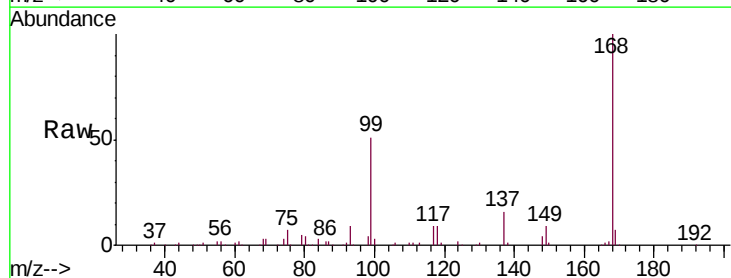
Instrument :
 MSVOA_U
 ClientSampleId :
 VU0912WBL01

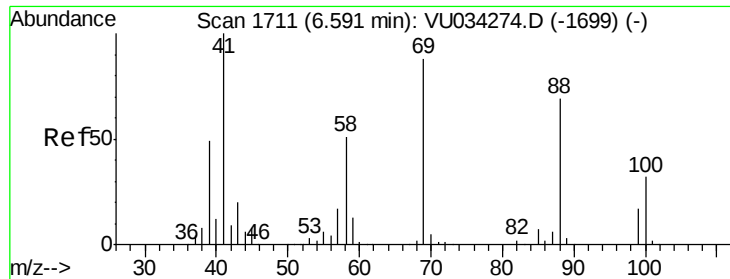
Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.0	18.3	54.9#
77	0.0	24.9	37.3#



#38
 Carbon Tetrachloride
 Concen: 5.213 ug/l
 RT: 4.96 min Scan# 1205
 Delta R.T. -0.15 min
 Lab File: VU034481.D
 Acq: 11 Sep 2019 17:56

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.2	77.8	116.6#
121	0.0	25.2	37.8#

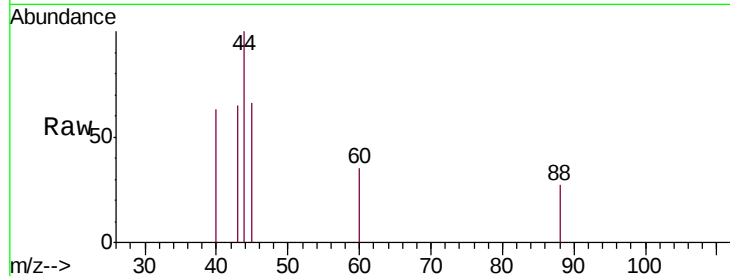




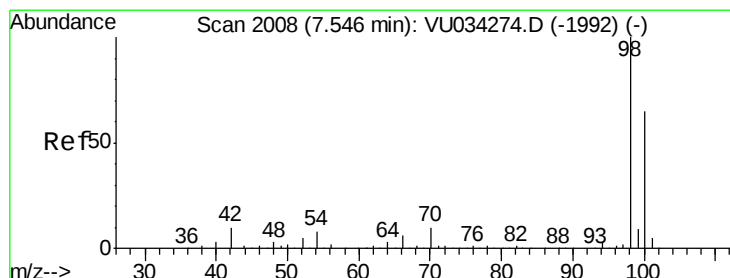
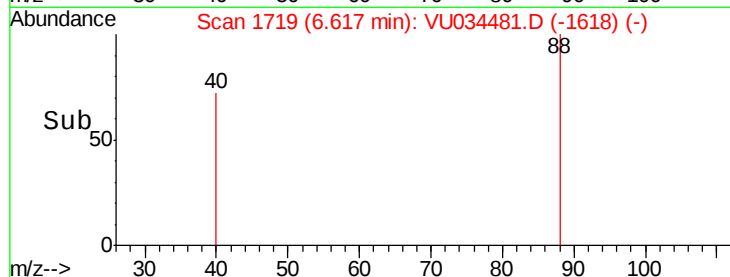
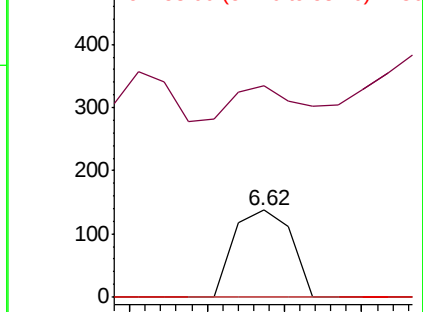
#49
1,4-Dioxane
Concen: 0.989 ug/l
RT: 6.62 min Scan# 1719
Delta R.T. 0.03 min
Lab File: VU034481.D
Acq: 11 Sep 2019 17:56

Instrument :
MSVOA_U
ClientSampleId :
VU0912WBL01

Tgt Ion: 88 Resp: 71
Ion Ratio Lower Upper
88 100
43 39.4 23.8 35.6#
58 0.0 58.4 87.6#

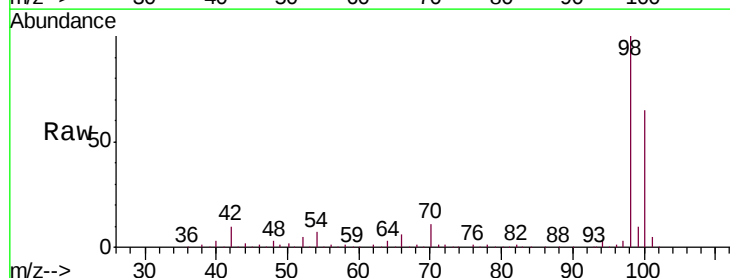


Abundance Ion 88.00 (87.70 to 88.70): VU0
Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0

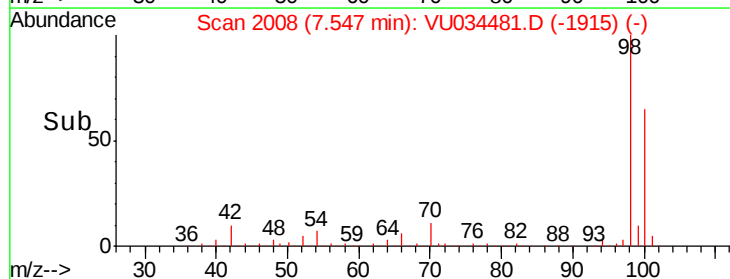
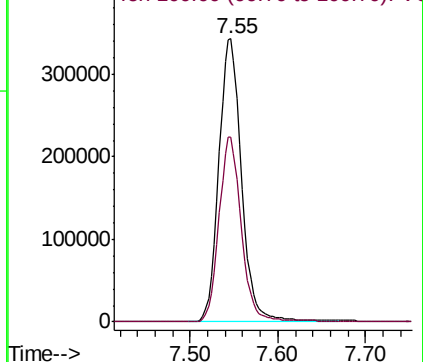


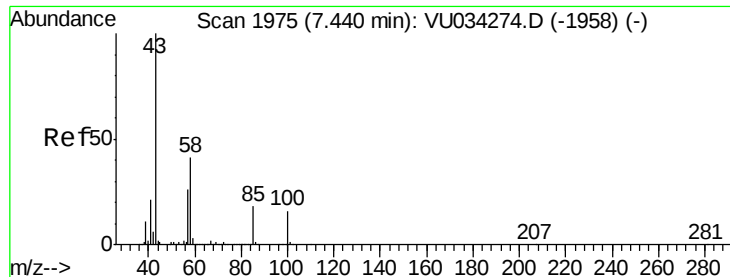
#50
Toluene-d8
Concen: 51.173 ug/l
RT: 7.55 min Scan# 2008
Delta R.T. 0.00 min
Lab File: VU034481.D
Acq: 11 Sep 2019 17:56

Tgt Ion: 98 Resp: 619291
Ion Ratio Lower Upper
98 100
100 64.3 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VU0
Ion 100.00 (99.70 to 100.70): VU0

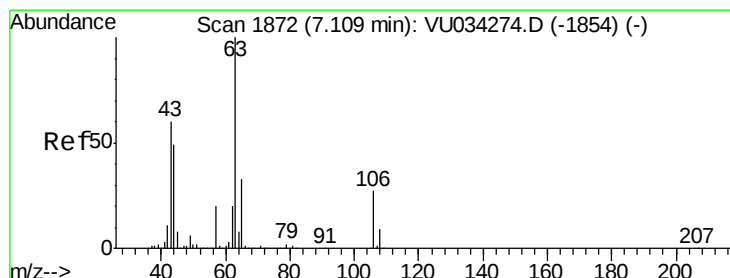
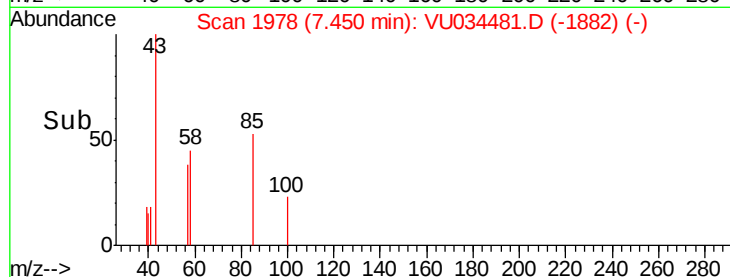
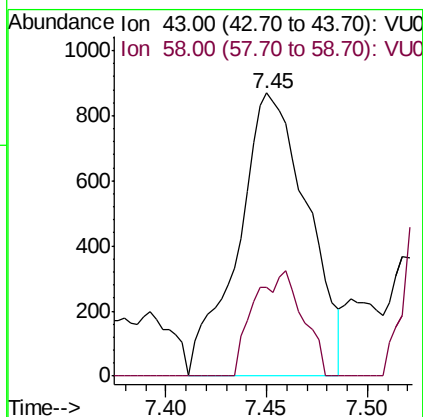
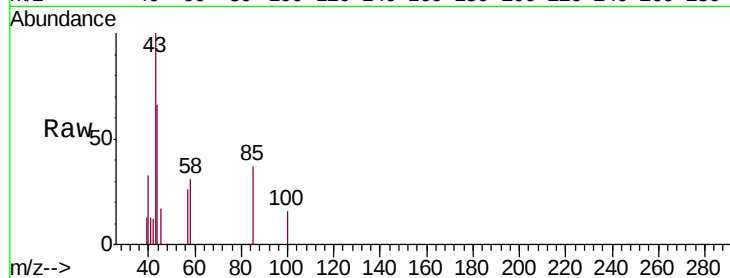




#51
 4-Methyl-2-Pentanone
 Concen: 0.433 ug/l
 RT: 7.45 min Scan# 1978
 Delta R.T. 0.01 min
 Lab File: VU034481.D
 Acq: 11 Sep 2019 17:56

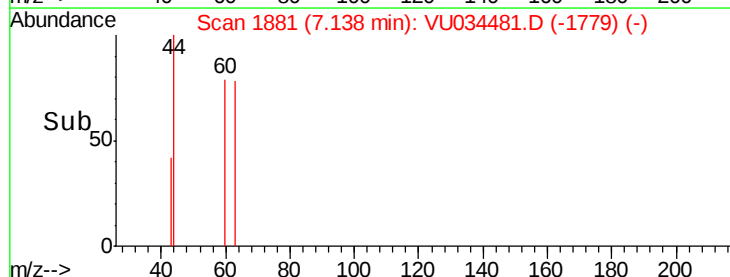
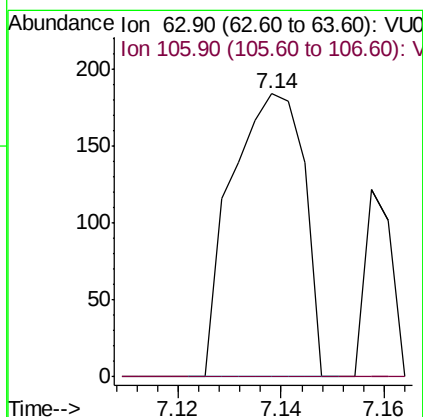
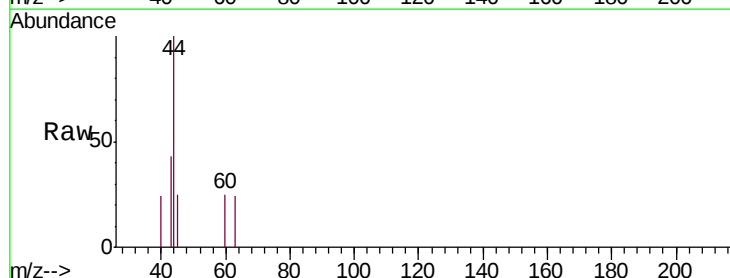
Instrument :
 MSVOA_U
 ClientSampleId :
 VU0912WBL01

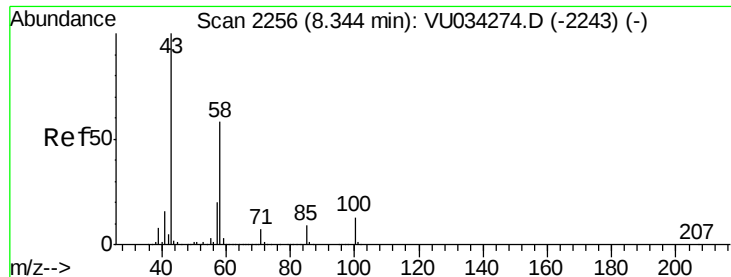
Tgt Ion: 43 Resp: 2076
 Ion Ratio Lower Upper
 43 100
 58 26.3 33.0 49.4#



#58
 2-Chloroethyl Vinyl ether
 Concen: 16.709 ug/l
 RT: 7.14 min Scan# 1881
 Delta R.T. 0.03 min
 Lab File: VU034481.D
 Acq: 11 Sep 2019 17:56

Tgt Ion: 63 Resp: 178
 Ion Ratio Lower Upper
 63 100
 106 0.0 21.6 32.4#

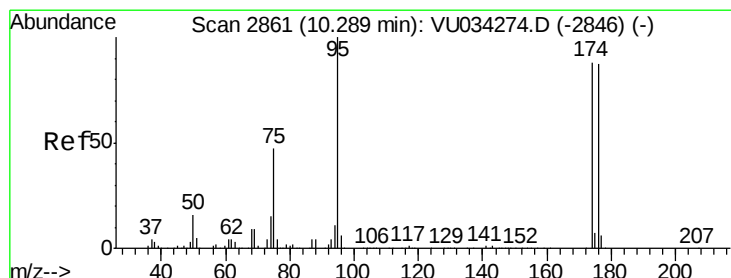
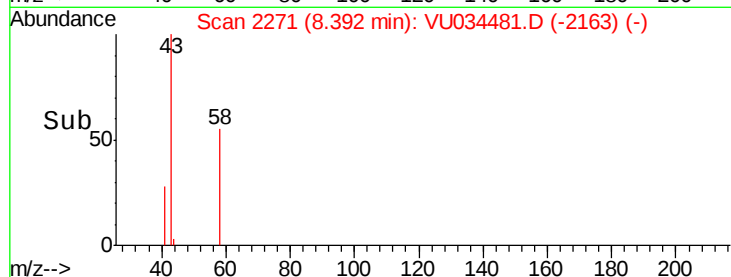
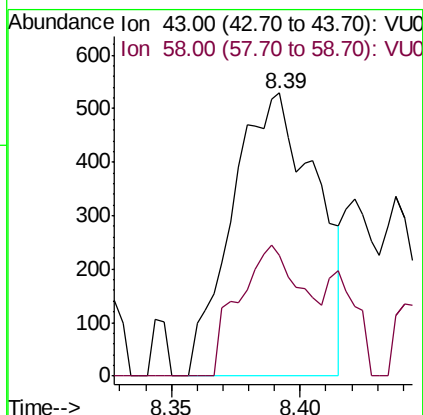
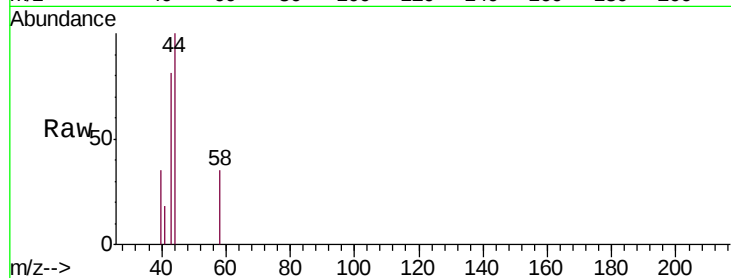




#59
2-Hexanone
Concen: 0.337 ug/l
RT: 8.39 min Scan# 2271
Delta R.T. 0.05 min
Lab File: VU034481.D
Acq: 11 Sep 2019 17:56

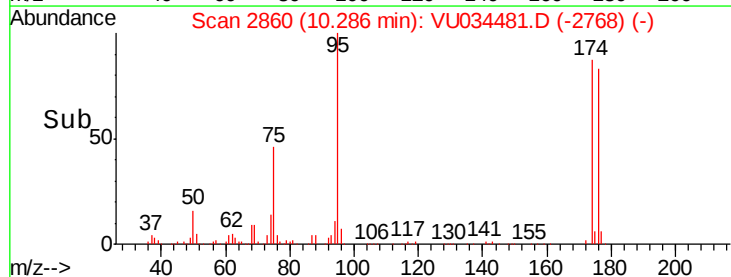
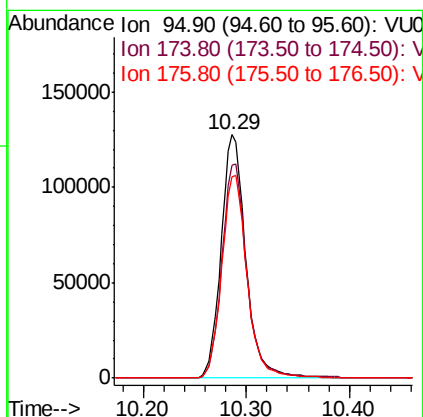
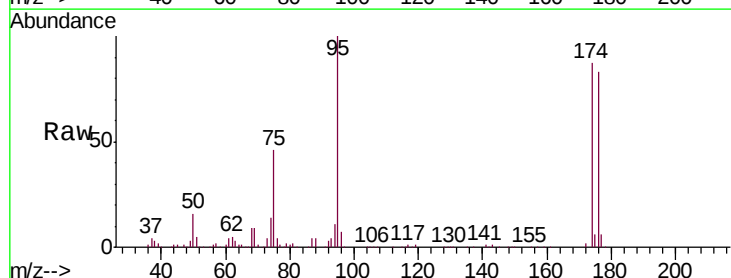
Instrument :
MSVOA_U
ClientSampleId :
VU0912WBL01

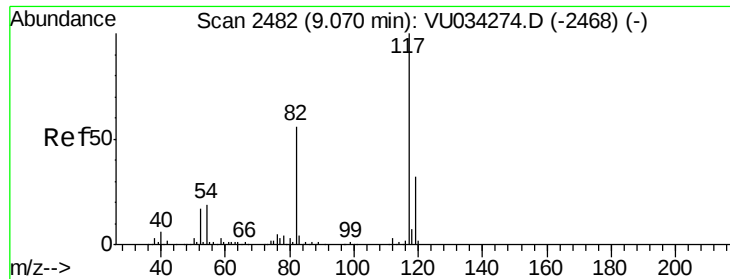
Tgt Ion: 43 Resp: 1208
Ion Ratio Lower Upper
43 100
58 36.1 28.8 86.5



#62
4-Bromofluorobenzene
Concen: 45.540 ug/l
RT: 10.29 min Scan# 2860
Delta R.T. -0.00 min
Lab File: VU034481.D
Acq: 11 Sep 2019 17:56

Tgt Ion: 95 Resp: 212784
Ion Ratio Lower Upper
95 100
174 89.6 0.0 175.2
176 85.2 0.0 168.0

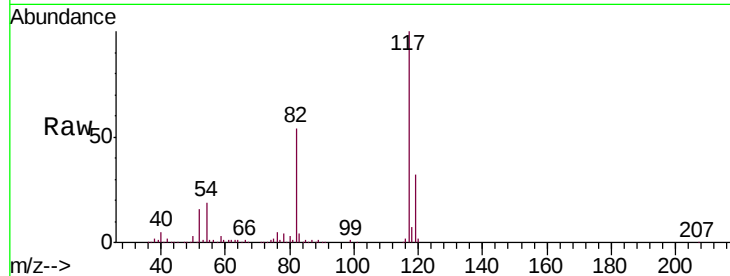




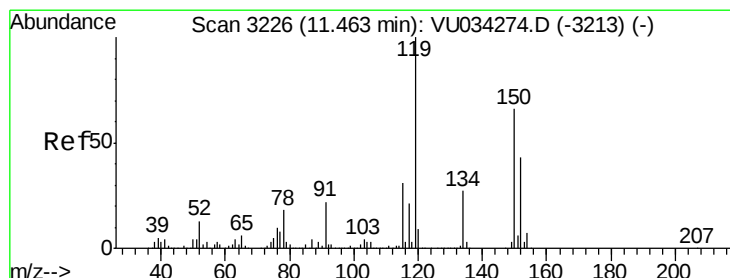
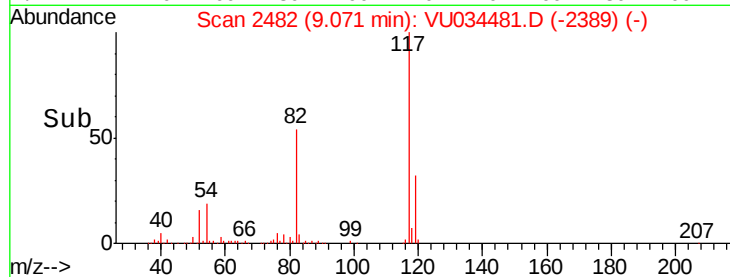
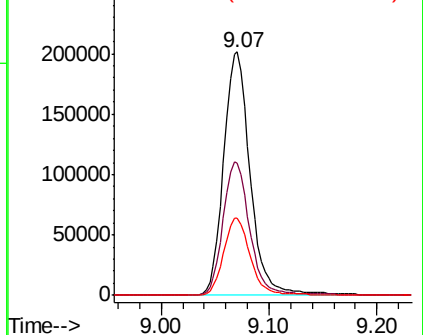
#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 9.07 min Scan# 2482
 Delta R.T. 0.00 min
 Lab File: VU034481.D
 Acq: 11 Sep 2019 17:56

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0912WBL01

Tgt Ion:117 Resp: 345639
 Ion Ratio Lower Upper
 117 100
 82 54.2 44.6 67.0
 119 31.8 25.9 38.9

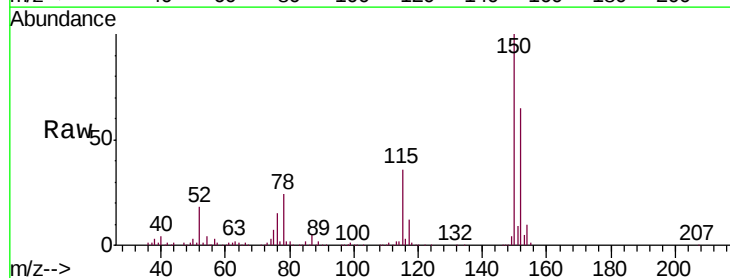


Abundance Ion 116.90 (116.60 to 117.60): V
 Ion 82.00 (81.70 to 82.70): VU0
 Ion 118.90 (118.60 to 119.60): V

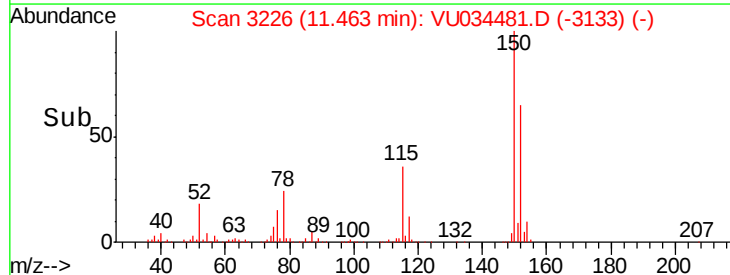
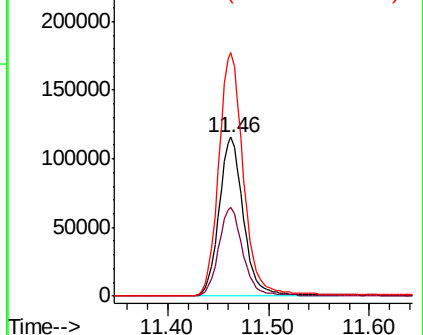


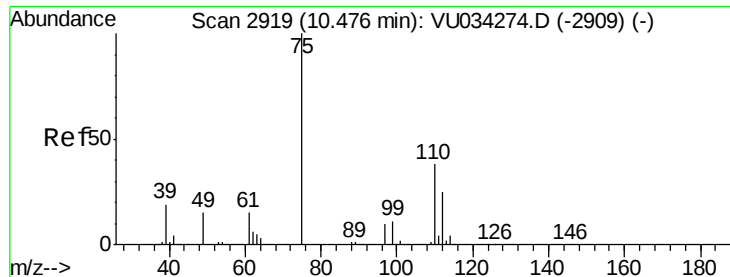
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 11.46 min Scan# 3226
 Delta R.T. 0.00 min
 Lab File: VU034481.D
 Acq: 11 Sep 2019 17:56

Tgt Ion:152 Resp: 196581
 Ion Ratio Lower Upper
 152 100
 115 55.4 39.1 117.3
 150 155.5 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: 23.106 ug/l

RT: 10.29 min Scan# 2860

Delta R.T. -0.19 min

Lab File: VU034481.D

Acq: 11 Sep 2019 17:56

Instrument :

MSVOA_U

ClientSampleId :

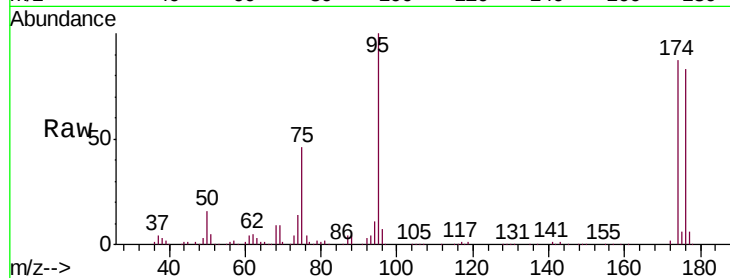
VU0912WBL01

Tgt Ion: 75 Resp: 99149

Ion Ratio Lower Upper

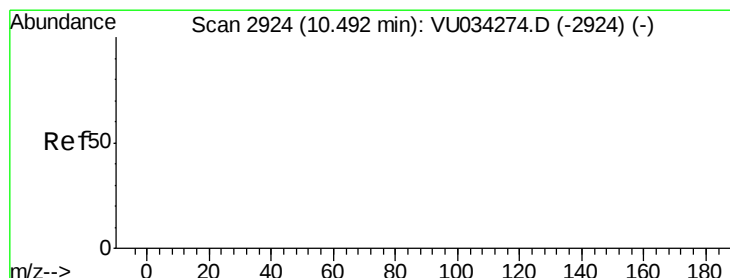
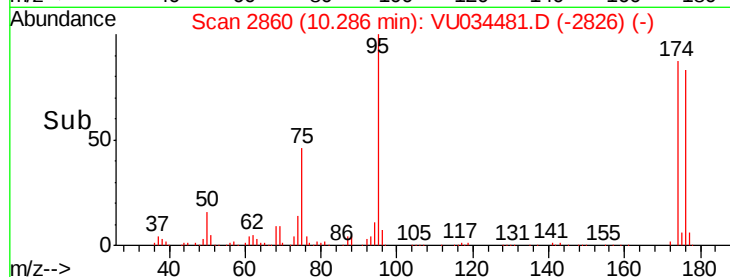
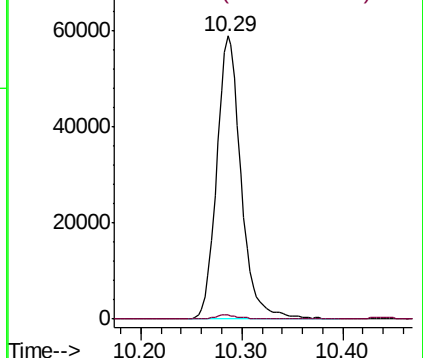
75 100

77 1.4 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: 77.705 ug/l

RT: 10.29 min Scan# 2860

Delta R.T. -0.21 min

Lab File: VU034481.D

Acq: 11 Sep 2019 17:56

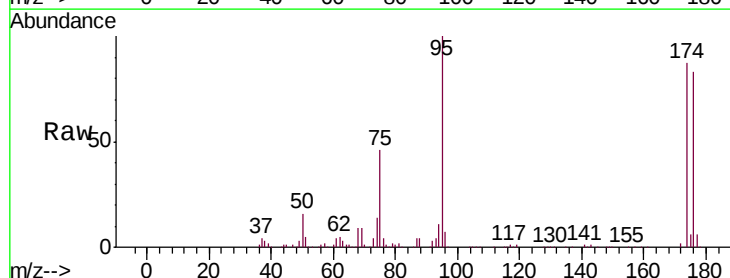
Tgt Ion: 75 Resp: 99149

Ion Ratio Lower Upper

75 100

53 0.2 0.0 0.0#

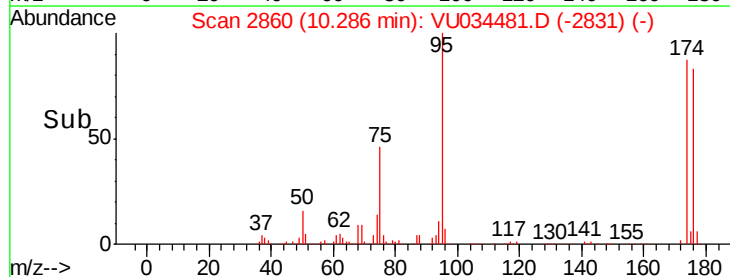
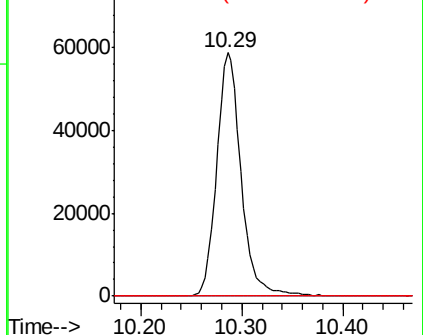
89 0.0 0.0 0.0

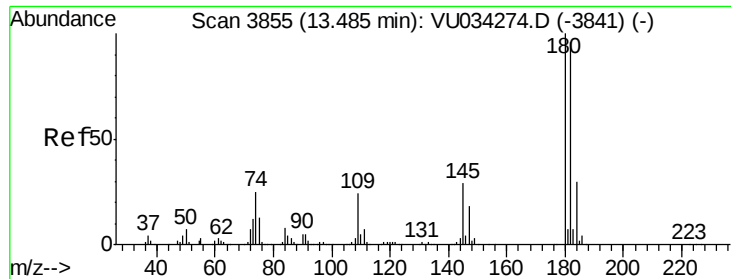


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.90 (88.60 to 89.60): VU0

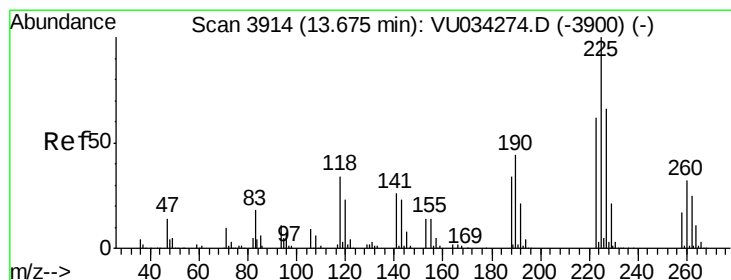
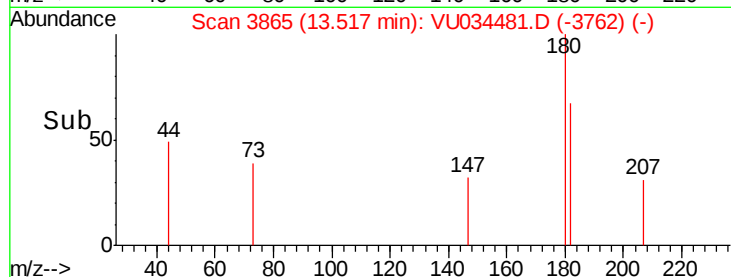
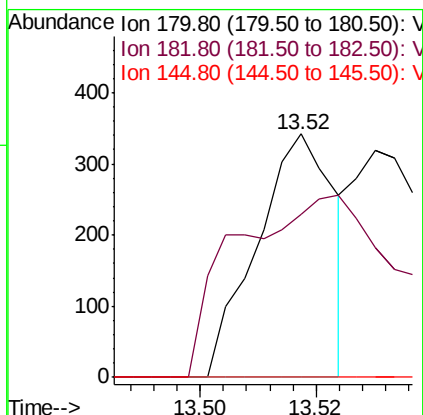
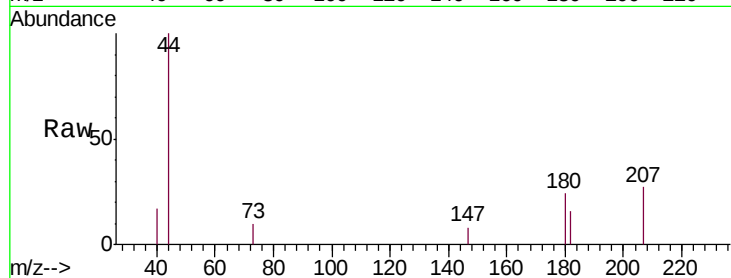




#93
 1,2,4-Trichlorobenzene
 Concen: 3.515 ug/l
 RT: 13.52 min Scan# 3865
 Delta R.T. 0.03 min
 Lab File: VU034481.D
 Acq: 11 Sep 2019 17:56

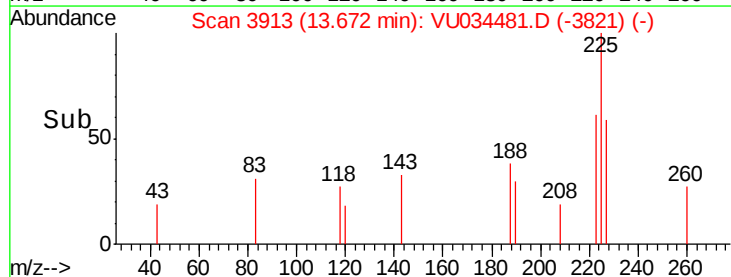
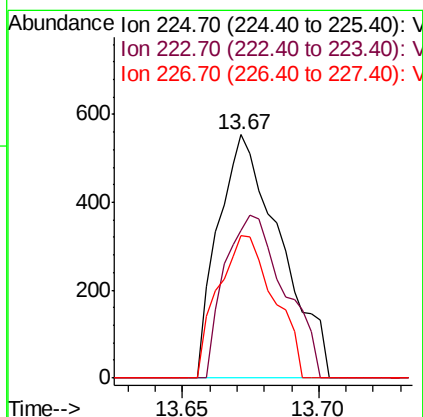
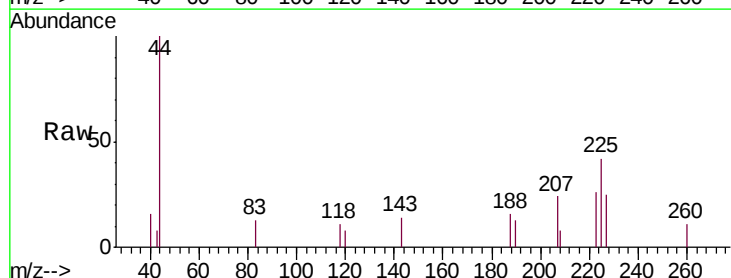
Instrument :
 MSVOA_U
 ClientSampleId :
 VU0912WBL01

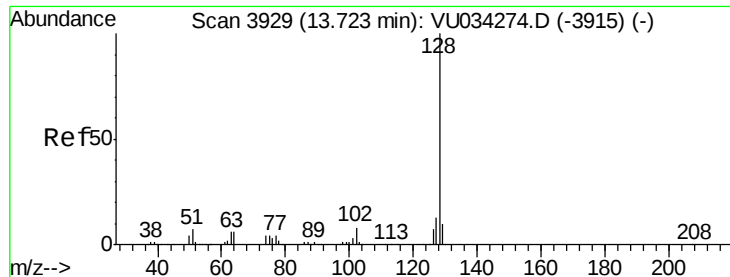
Tgt Ion:180 Resp: 317
 Ion Ratio Lower Upper
 180 100
 182 145.1 47.9 143.8#
 145 0.0 14.4 43.0#



#94
 Hexachlorobutadiene
 Concen: 0.392 ug/l
 RT: 13.67 min Scan# 3913
 Delta R.T. -0.00 min
 Lab File: VU034481.D
 Acq: 11 Sep 2019 17:56

Tgt Ion:225 Resp: 879
 Ion Ratio Lower Upper
 225 100
 223 64.4 31.6 94.7
 227 52.3 32.3 96.8

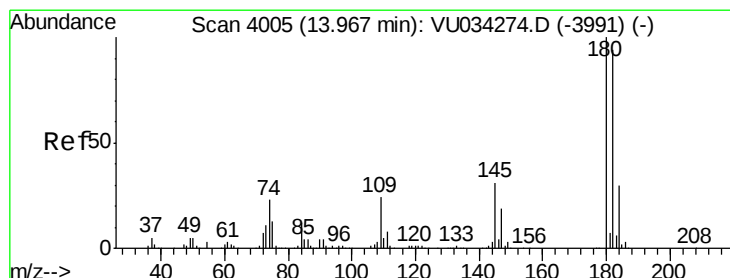
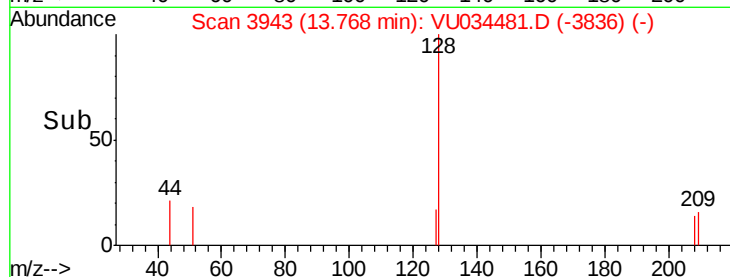
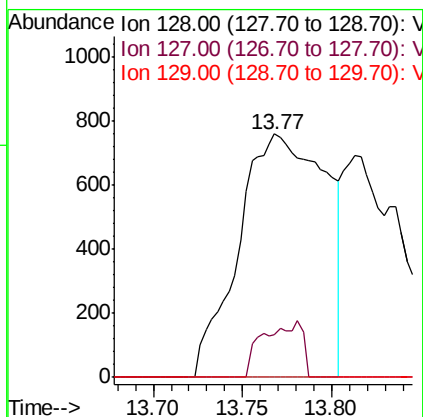
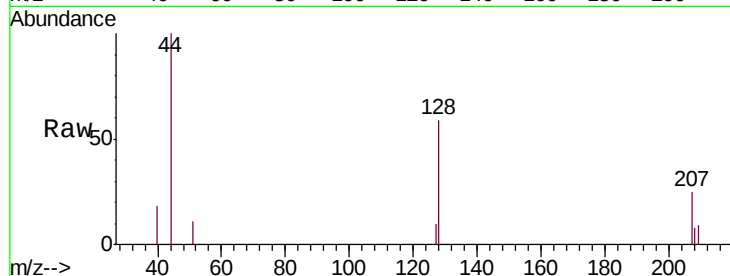




#95
Naphthalene
Concen: 4.148 ug/l
RT: 13.77 min Scan# 3943
Delta R.T. 0.05 min
Lab File: VU034481.D
Acq: 11 Sep 2019 17:56

Instrument :
MSVOA_U
ClientSampleId :
VU0912WBL01

Tgt Ion:128 Resp: 2596
Ion Ratio Lower Upper
128 100
127 10.4 10.6 15.8#
129 0.0 8.4 12.6#



#96
1,2,3-Trichlorobenzene
Concen: 2.789 ug/l
RT: 13.99 min Scan# 4012
Delta R.T. 0.02 min
Lab File: VU034481.D
Acq: 11 Sep 2019 17:56

Tgt Ion:180 Resp: 715
Ion Ratio Lower Upper
180 100
182 103.8 48.4 145.0
145 24.9 15.4 46.4

