

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU090719\
 Data File : VU034322.D
 Acq On : 06 Sep 2019 11:56
 Operator : JC/SP
 Sample : PB122836TB
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Sep 06 12:30:38 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	291908	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	433359	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	446738	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	252392	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	233524	52.87	ug/l	0.00
Spiked Amount			Recovery	=	105.74%	
35) Dibromofluoromethane	4.86	113	203194	50.39	ug/l	0.00
Spiked Amount			Recovery	=	100.78%	
50) Toluene-d8	7.55	98	776445	51.25	ug/l	0.00
Spiked Amount			Recovery	=	102.50%	
62) 4-Bromofluorobenzene	10.29	95	267616	45.75	ug/l	0.00
Spiked Amount			Recovery	=	91.50%	

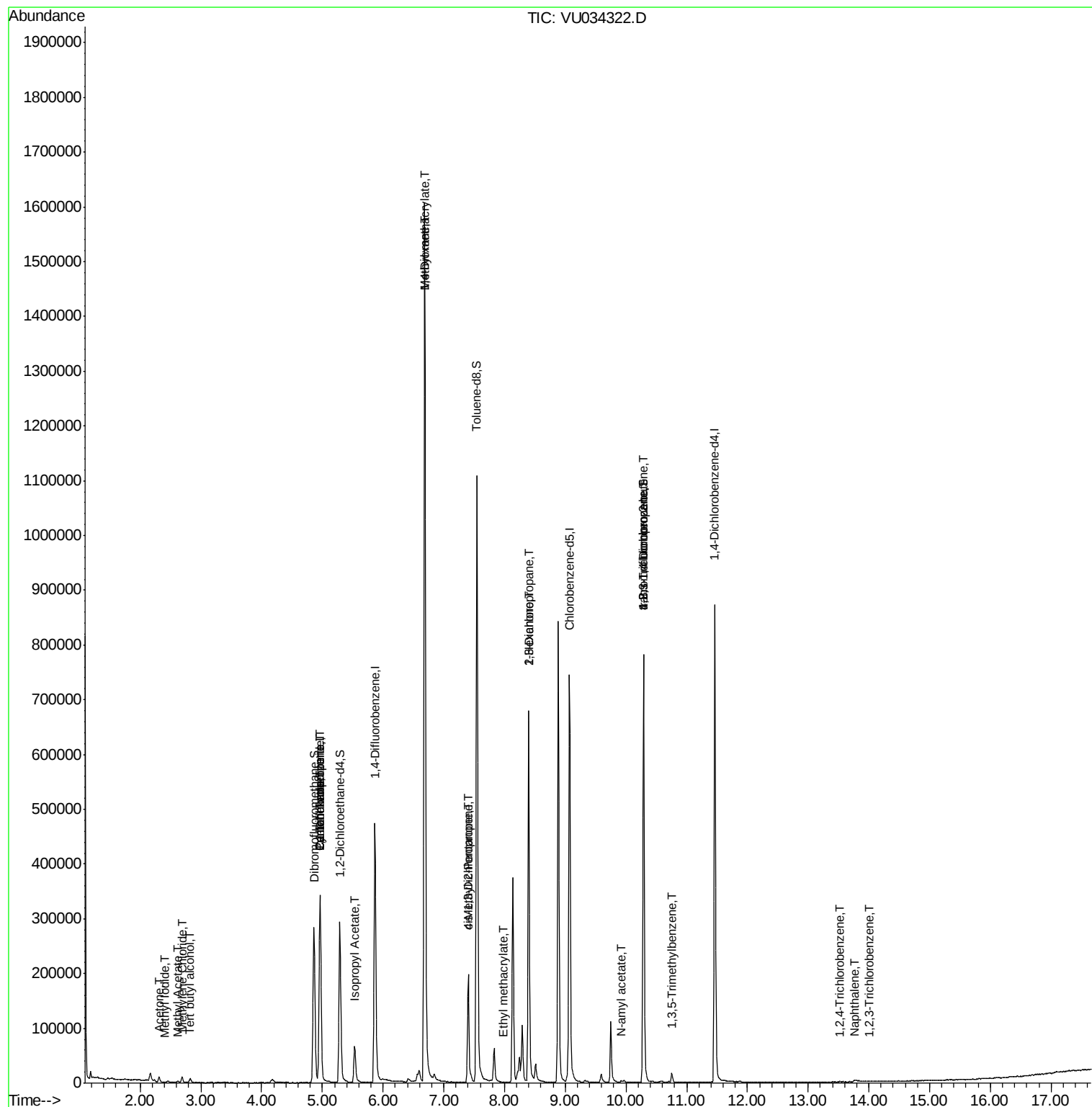
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.63	94	778	Below Cal		81
6) Chloroethane	1.66	64	175	Below Cal	#	43
10) Methyl Iodide	2.41	142	435	3.976	ug/l #	48
11) Tert butyl alcohol	2.82	59	4608	4.938	ug/l #	73
16) Acetone	2.31	43	10645	4.657	ug/l	94
18) Methyl Acetate	2.62	43	4056	0.729	ug/l #	86
20) Methylene Chloride	2.69	84	4708	0.865	ug/l	96
31) Cyclohexane	4.96	56	4857	0.939	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	19538	4.157	ug/l #	49
38) Carbon Tetrachloride	4.96	117	26078	5.197	ug/l #	15
43) Isopropyl Acetate	5.53	43	80562	9.294	ug/l	99
48) Methyl methacrylate	6.69	41	137952	33.507	ug/l #	37
49) 1,4-Dioxane	6.68	88	214	2.380	ug/l #	1
51) 4-Methyl-2-Pentanone	7.40	43	66552	11.092	ug/l #	47
54) cis-1,3-Dichloropropene	7.40	75	37296	5.723	ug/l #	63
56) Ethyl methacrylate	7.97	69	116	3.093	ug/l #	28
57) 1,3-Dichloropropane	8.40	76	6979	0.992	ug/l #	43
59) 2-Hexanone	8.40	43	90347	20.155	ug/l #	53
74) N-amyl acetate	9.92	43	2139	0.324	ug/l #	42
76) 1,2,3-Trichloropropane	10.29	75	126680	22.994	ug/l #	36
80) 1,3,5-Trimethylbenzene	10.76	105	9793	0.713	ug/l	98
81) trans-1,4-Dichloro-2-buten	10.29	75	126680	77.327	ug/l #	100
93) 1,2,4-Trichlorobenzene	13.53	180	409	3.515	ug/l #	42
95) Naphthalene	13.76	128	2362	4.095	ug/l #	94
96) 1,2,3-Trichlorobenzene	14.00	180	208	2.673	ug/l #	46

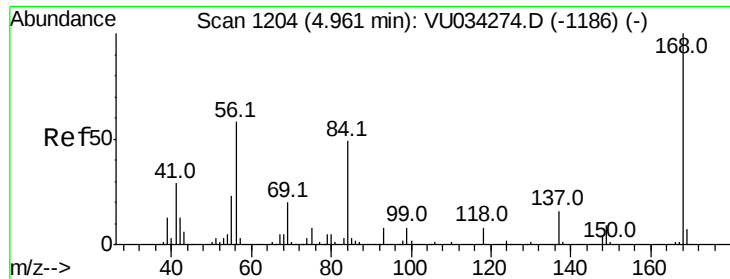
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\82U090619W.M
Quant Title : SW846 8260
QLast Update : Fri Sep 06 05:10:13 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.00 min

Lab File: VU034322.D

Acq: 06 Sep 2019 11:56

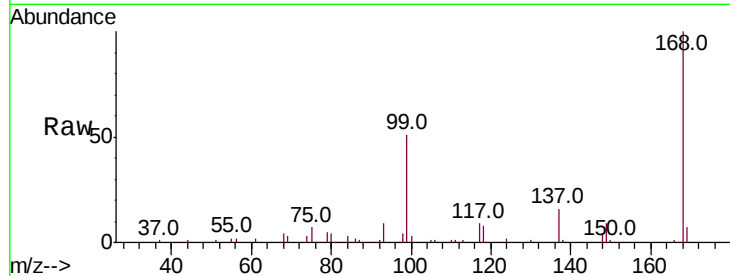
Instrument :
MSVOA_U
ClientSampled :

Tot Ion:168 Resp: 291908

Ion Ratio Lower Upper

168 100

99 51.2 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

150000

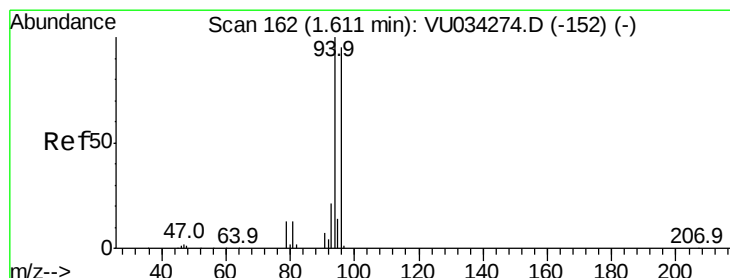
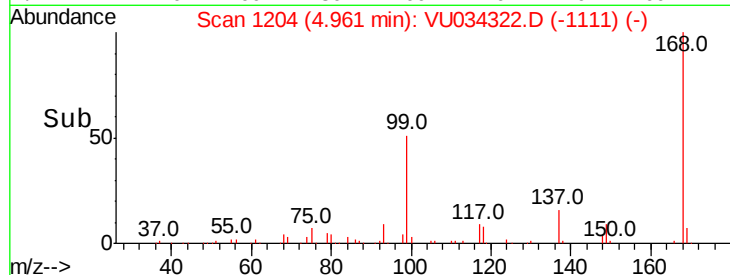
100000

50000

0

Time-->

4.90 5.00 5.10



#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 168

Delta R.T. 0.02 min

Lab File: VU034322.D

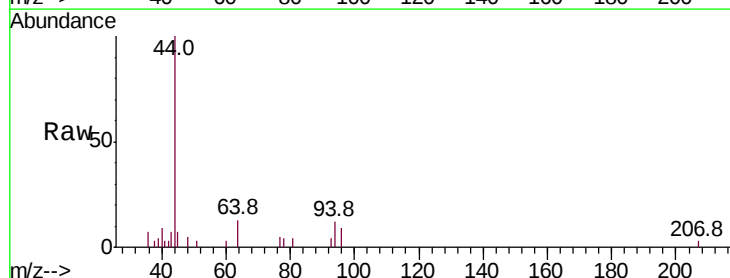
Acq: 06 Sep 2019 11:56

Tgt Ion: 94 Resp: 778

Ion Ratio Lower Upper

94 100

96 75.9 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

500

400

300

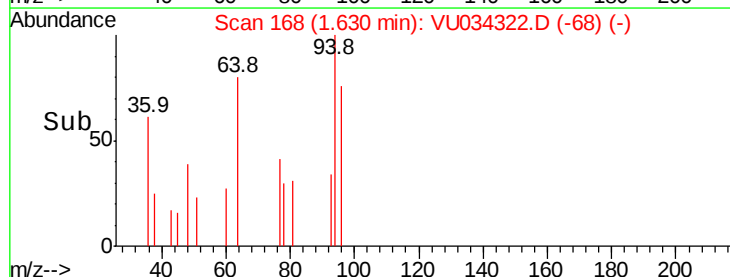
200

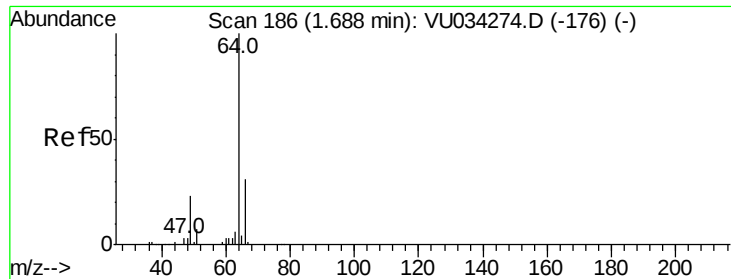
100

0

Time-->

1.60 1.65





#6

Chloroethane

Concen: Below Cal

RT: 1.66 min Scan# 178

Delta R.T. -0.03 min

Lab File: VU034322.D

Acq: 06 Sep 2019 11:56

Instrument :

MSVOA_U

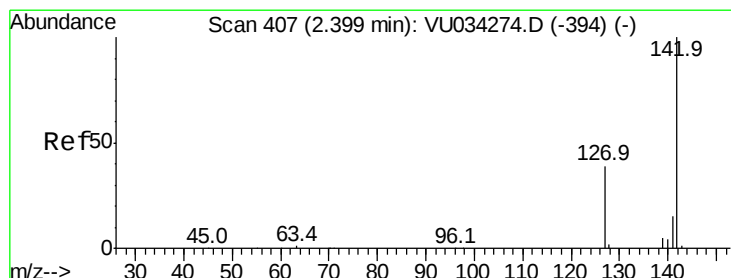
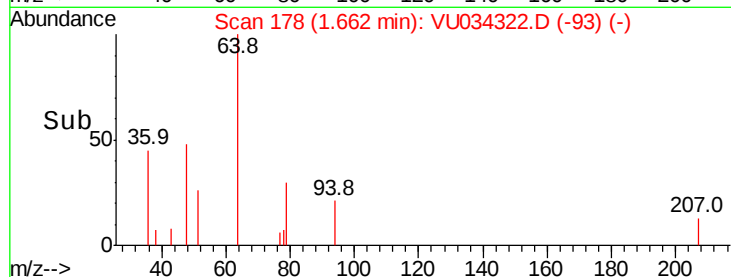
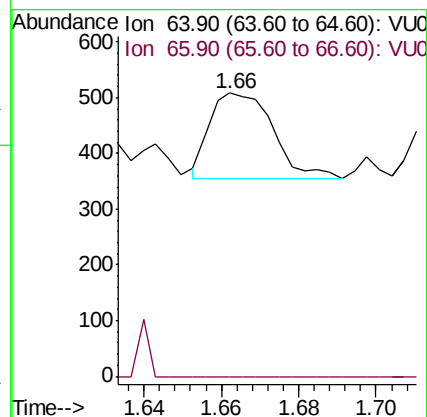
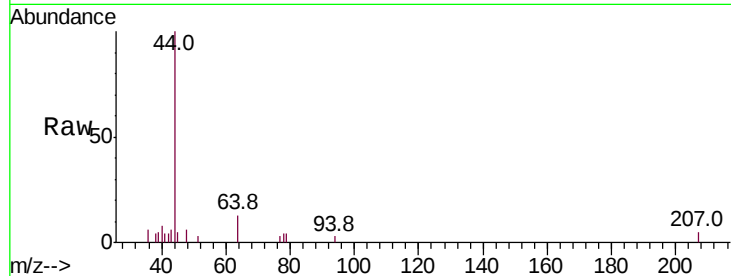
ClientSampleId :

Tot Ion: 64 Resp: 175

Ion Ratio Lower Upper

64 100

66 0.0 25.0 37.6#



#10

Methyl Iodide

Concen: 3.976 ug/l

RT: 2.41 min Scan# 411

Delta R.T. 0.01 min

Lab File: VU034322.D

Acq: 06 Sep 2019 11:56

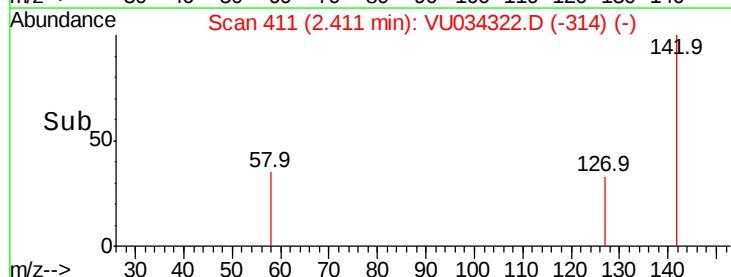
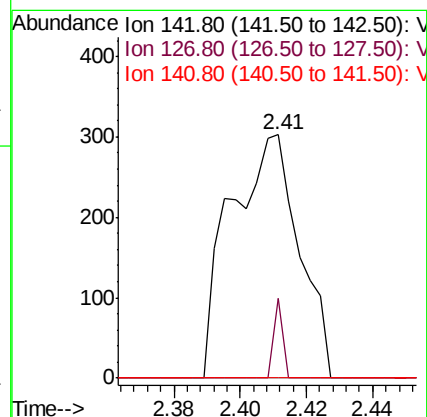
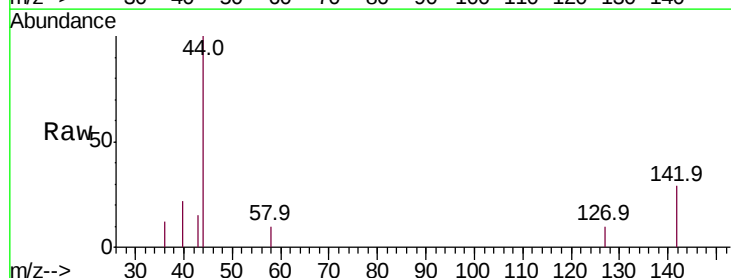
Tgt Ion: 142 Resp: 435

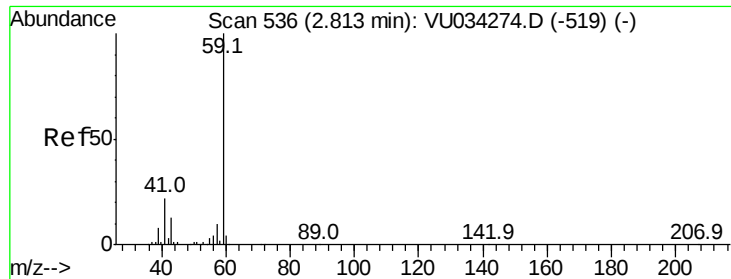
Ion Ratio Lower Upper

142 100

127 4.4 32.1 48.1#

141 0.0 11.5 17.3#

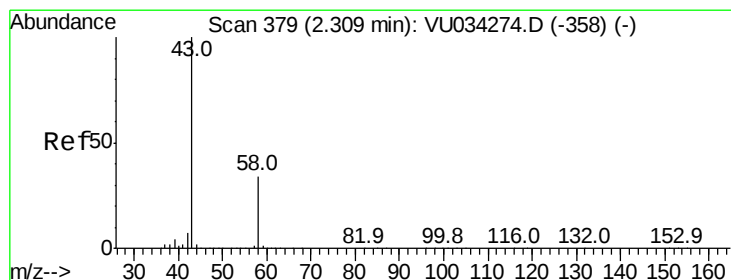
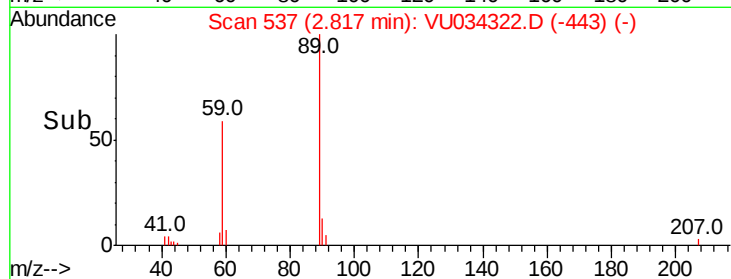
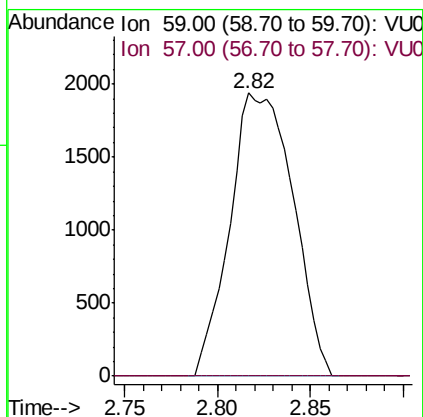
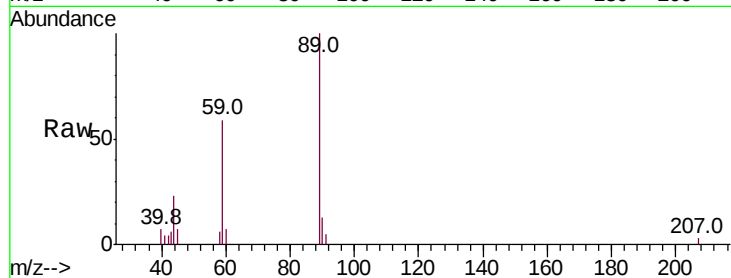




#11
Tert butyl alcohol
Concen: 4.938 ug/l
RT: 2.82 min Scan# 537
Delta R.T. 0.00 min
Lab File: VU034322.D
Acq: 06 Sep 2019 11:56

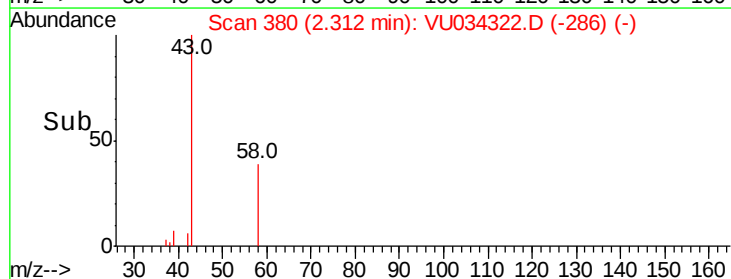
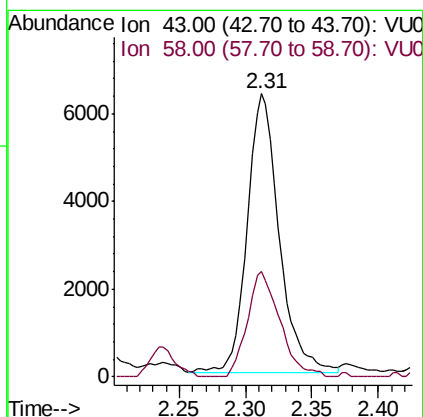
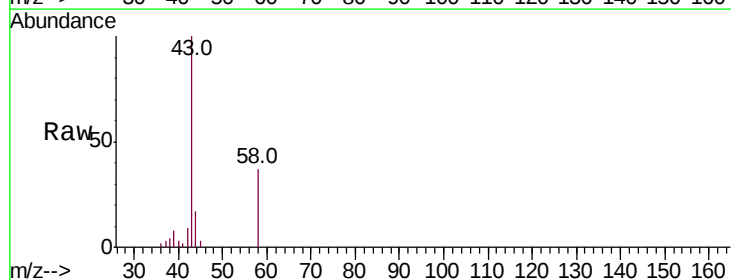
Instrument :
MSVOA_U
ClientSampled :

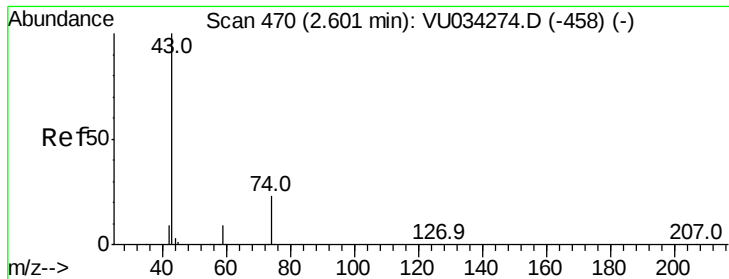
Tot Ion: 59 Resp: 4608
Ion Ratio Lower Upper
59 100
57 0.0 7.9 11.9#



#16
Acetone
Concen: 4.657 ug/l
RT: 2.31 min Scan# 380
Delta R.T. 0.00 min
Lab File: VU034322.D
Acq: 06 Sep 2019 11:56

Tgt Ion: 43 Resp: 10645
Ion Ratio Lower Upper
43 100
58 38.0 27.6 41.4

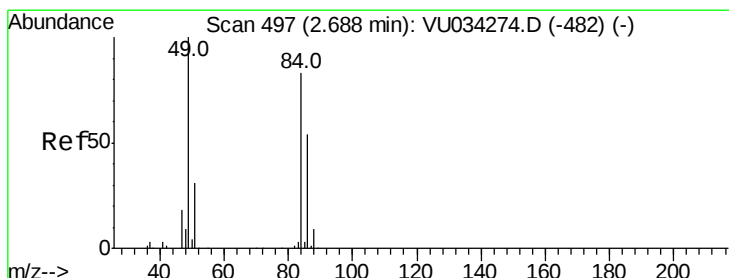
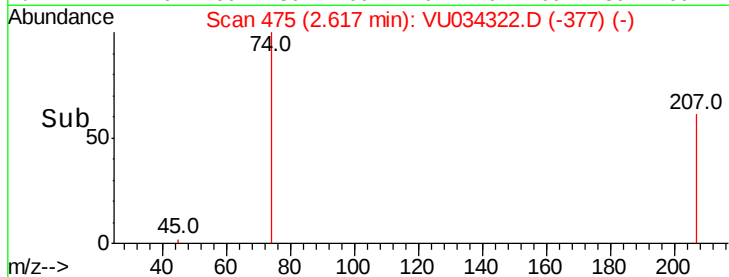
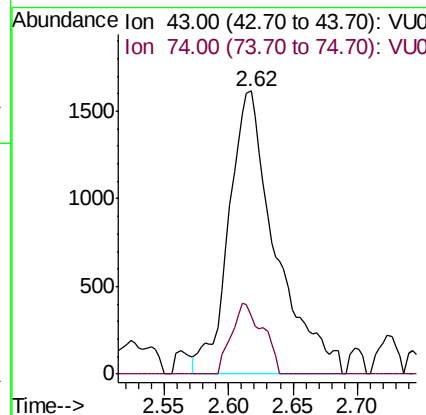
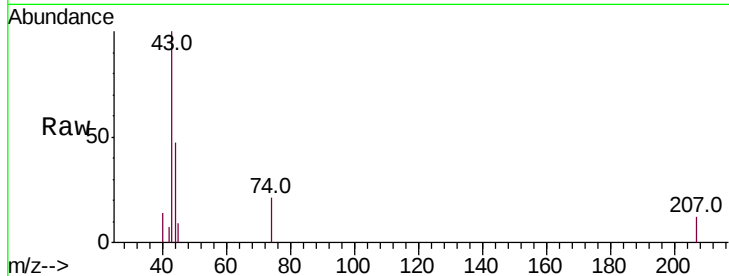




#18
Methyl Acetate
Concen: 0.729 ug/l
RT: 2.62 min Scan# 475
Delta R.T. 0.02 min
Lab File: VU034322.D
Acq: 06 Sep 2019 11:56

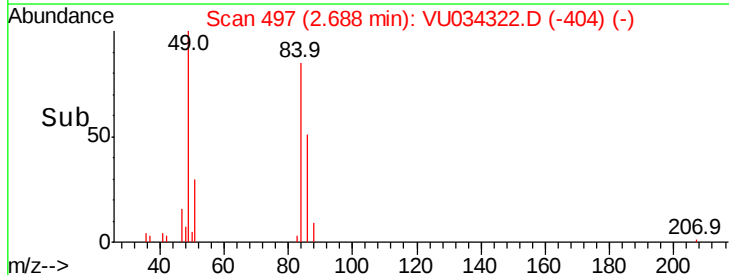
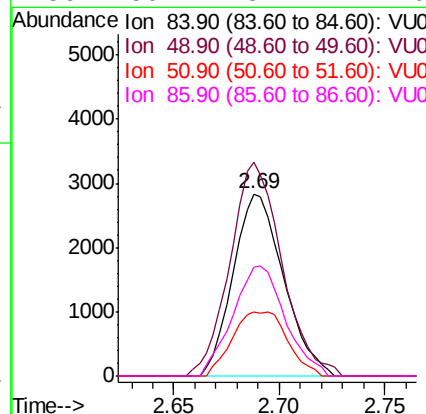
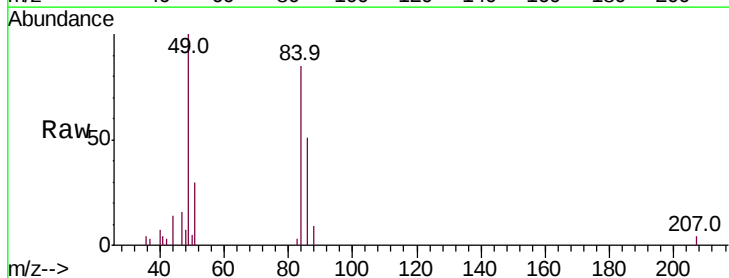
Instrument :
MSVOA_U
ClientSampleId :

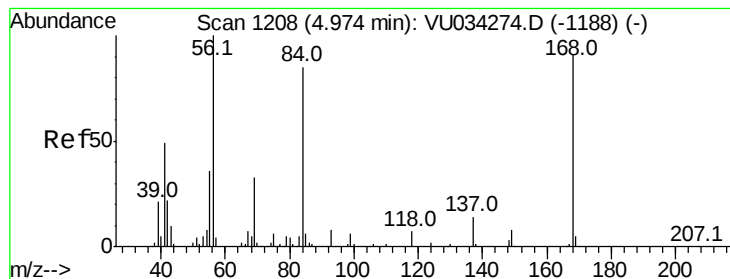
Tot Ion: 43 Resp: 4056
Ion Ratio Lower Upper
43 100
74 16.7 18.9 28.3#



#20
Methylene Chloride
Concen: 0.865 ug/l
RT: 2.69 min Scan# 497
Delta R.T. -0.00 min
Lab File: VU034322.D
Acq: 06 Sep 2019 11:56

Tgt Ion: 84 Resp: 4708
Ion Ratio Lower Upper
84 100
49 117.4 96.0 144.0
51 35.0 30.0 45.0
86 59.7 51.4 77.0





#31

Cyclohexane

Concen: 0.939 ug/l

RT: 4.96 min Scan# 1205

Delta R.T. -0.01 min

Lab File: VU034322.D

Acq: 06 Sep 2019 11:56

Instrument :
MSVOA_U
ClientSampleId :

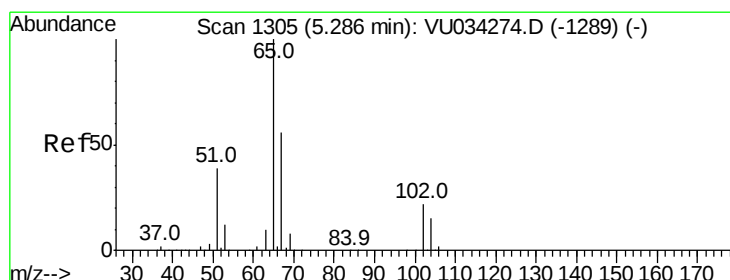
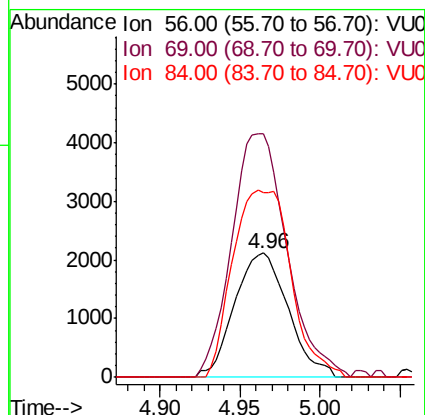
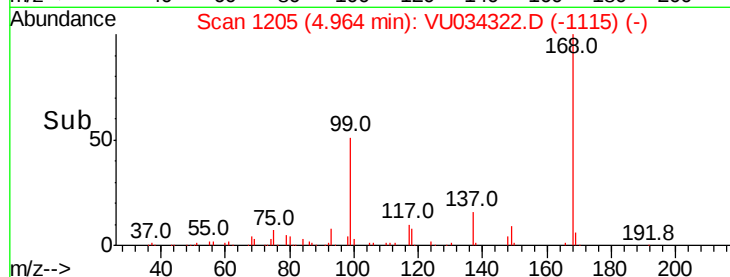
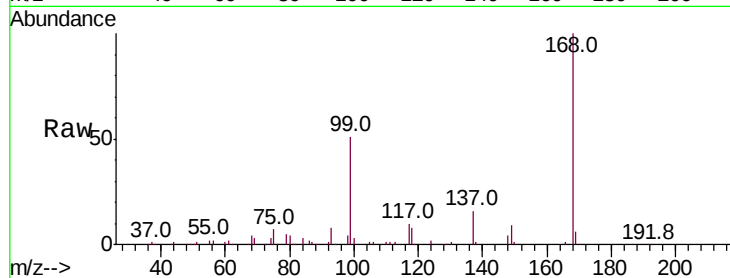
Tot Ion: 56 Resp: 4857

Ion Ratio Lower Upper

56 100

69 195.8 26.7 40.1#

84 149.0 68.2 102.4#



#33

1,2-Dichloroethane-d4

Concen: 52.873 ug/l

RT: 5.29 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VU034322.D

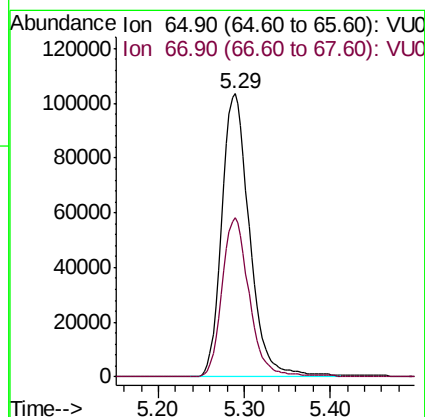
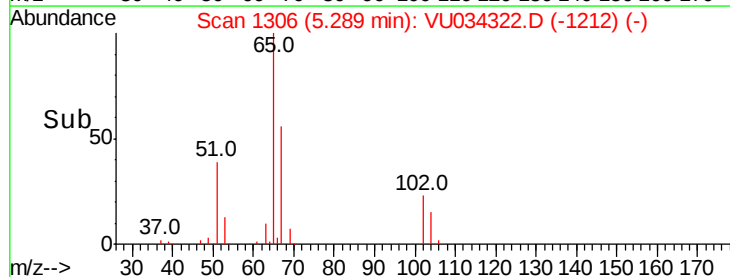
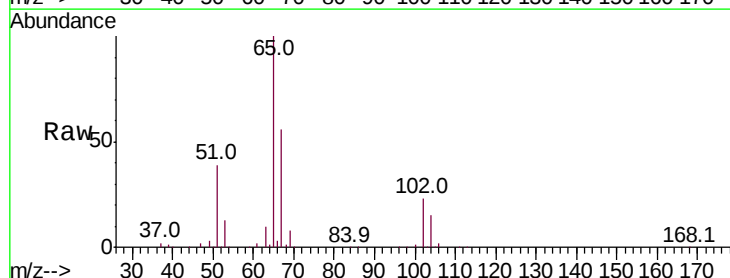
Acq: 06 Sep 2019 11:56

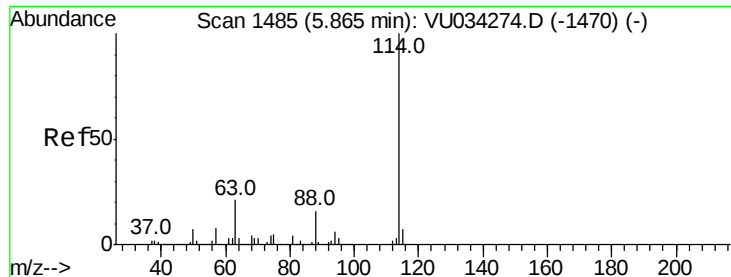
Tgt Ion: 65 Resp: 233524

Ion Ratio Lower Upper

65 100

67 55.2 0.0 112.4

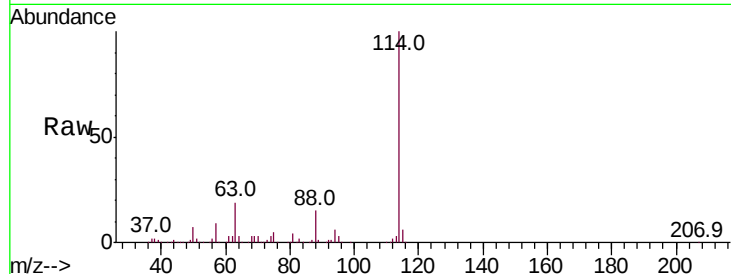




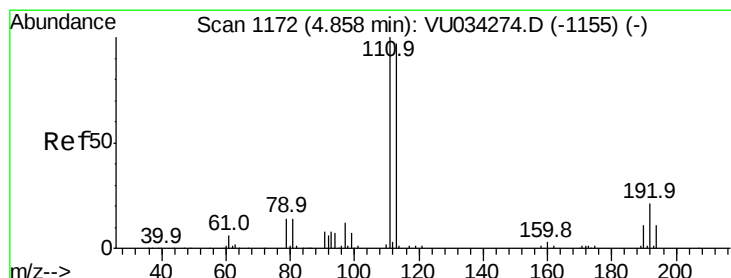
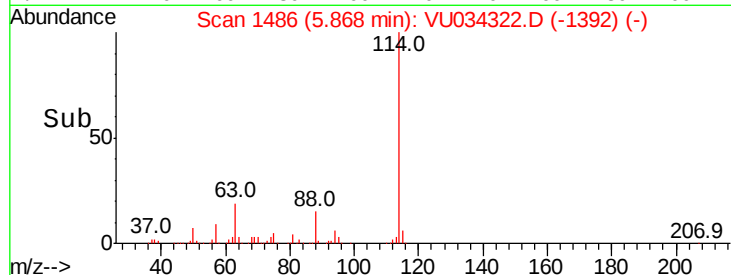
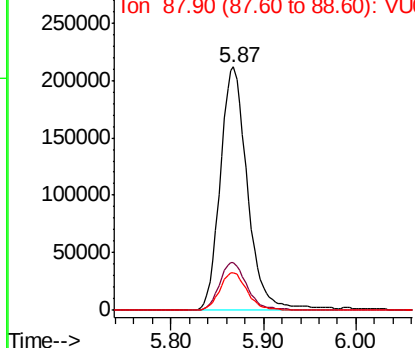
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.87 min Scan# 1486
 Delta R.T. 0.00 min
 Lab File: VU034322.D
 Acq: 06 Sep 2019 11:56

Instrument :
 MSVOA_U
 ClientSampled :

Tot Ion:114 Resp: 433359
 Ion Ratio Lower Upper
 114 100
 63 19.4 0.0 42.4
 88 15.5 0.0 32.4

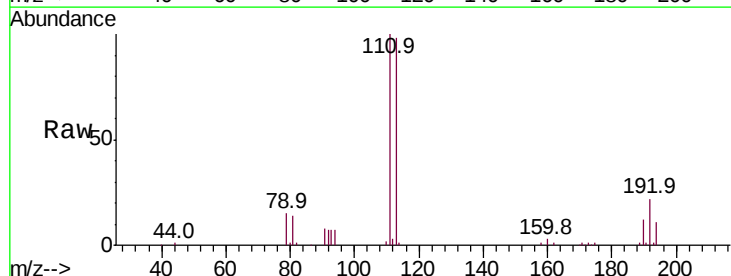


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VU0
 Ion 87.90 (87.60 to 88.60): VU0

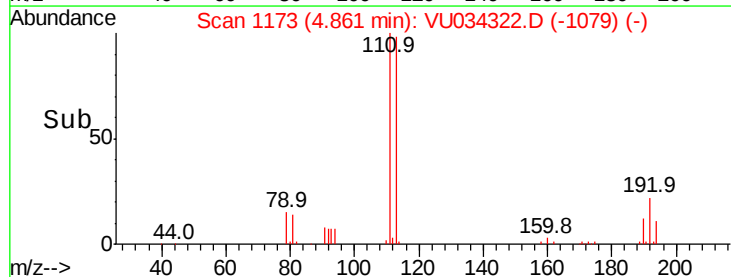
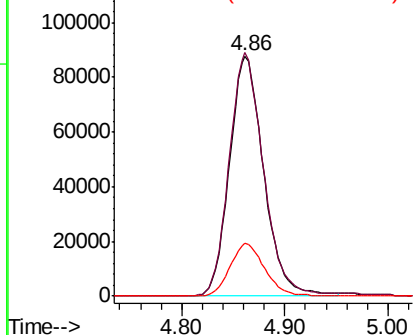


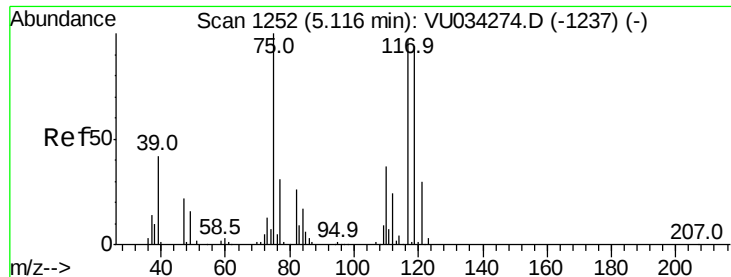
#35
 Dibromofluoromethane
 Concen: 50.390 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034322.D
 Acq: 06 Sep 2019 11:56

Tgt Ion:113 Resp: 203194
 Ion Ratio Lower Upper
 113 100
 111 101.1 81.5 122.3
 192 22.2 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: 4.157 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.15 min

Lab File: VU034322.D

Acq: 06 Sep 2019 11:56

Instrument :
MSVOA_U
ClientSampled :

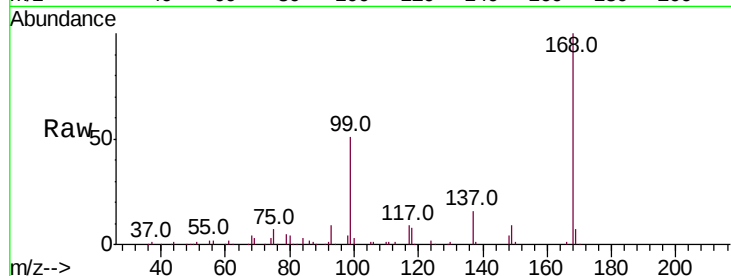
Tot Ion: 75 Resp: 19538

Ion Ratio Lower Upper

75 100

110 8.8 18.3 54.9#

77 0.0 24.9 37.3#



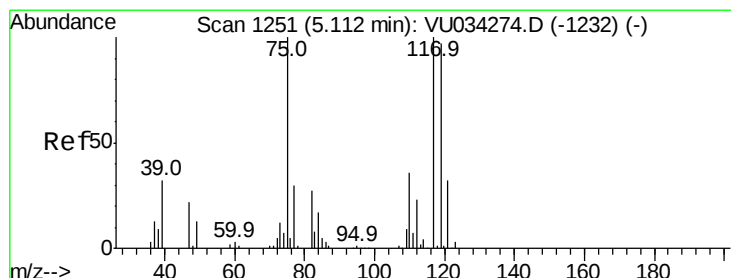
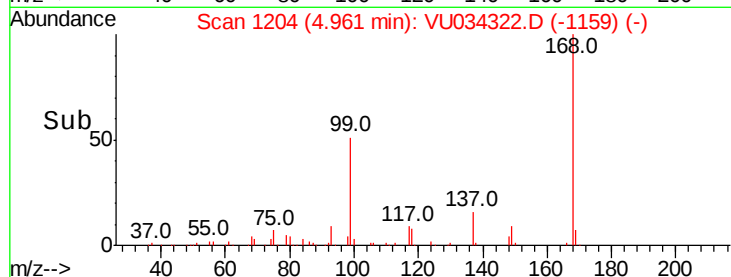
Abundance Ion 74.90 (74.60 to 75.60): VU034322.D (-1159) (-)

Ion 109.90 (109.60 to 110.60): VU034322.D (-1159) (-)

Ion 76.90 (76.60 to 77.60): VU034322.D (-1159) (-)

4.96

Time-->



#38

Carbon Tetrachloride

Concen: 5.197 ug/l

RT: 4.96 min Scan# 1205

Delta R.T. -0.15 min

Lab File: VU034322.D

Acq: 06 Sep 2019 11:56

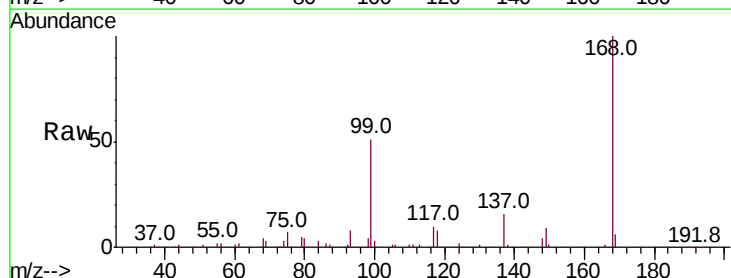
Tgt Ion: 117 Resp: 26078

Ion Ratio Lower Upper

117 100

119 5.1 77.8 116.6#

121 0.0 25.2 37.8#



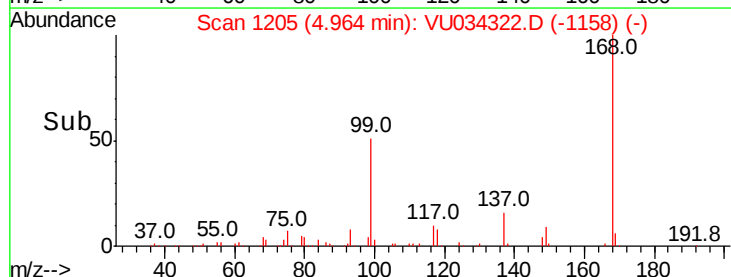
Abundance Ion 116.80 (116.50 to 117.50): VU034322.D (-1158) (-)

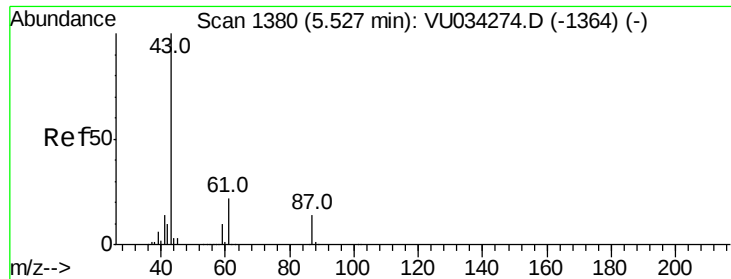
Ion 118.80 (118.50 to 119.50): VU034322.D (-1158) (-)

Ion 120.80 (120.50 to 121.50): VU034322.D (-1158) (-)

4.96

Time-->





#43

Isopropyl Acetate

Concen: 9.294 ug/l

RT: 5.53 min Scan# 1382

Delta R.T. 0.01 min

Lab File: VU034322.D

Acq: 06 Sep 2019 11:56

Instrument :

MSVOA_U

ClientSampleId :

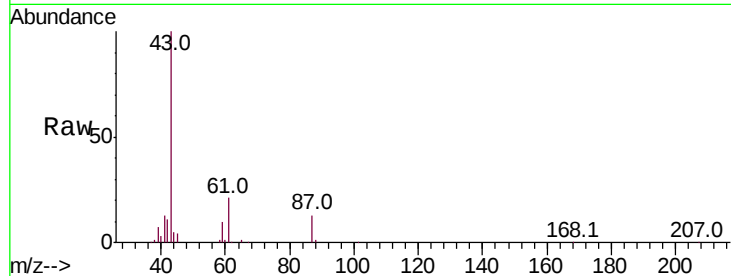
Tot Ion: 43 Resp: 80562

Ion Ratio Lower Upper

43 100

61 22.0 17.1 25.7

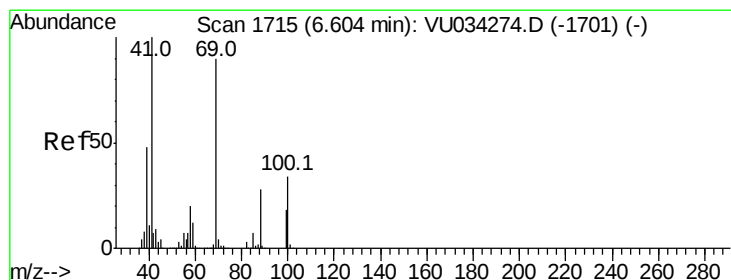
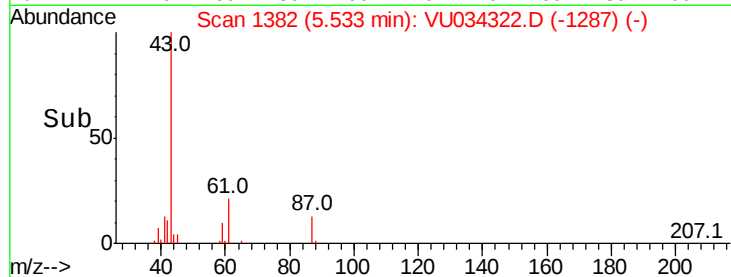
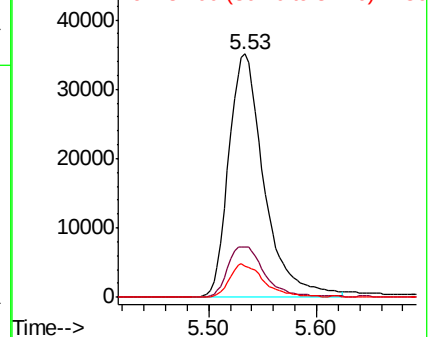
87 13.5 11.1 16.7



Abundance Ion 43.00 (42.70 to 43.70): VU034322.D (-1382) (-)

Ion 61.00 (60.70 to 61.70): VU034322.D (-1382) (-)

Ion 87.00 (86.70 to 87.70): VU034322.D (-1382) (-)



#48

Methyl methacrylate

Concen: 33.507 ug/l

RT: 6.69 min Scan# 1741

Delta R.T. 0.08 min

Lab File: VU034322.D

Acq: 06 Sep 2019 11:56

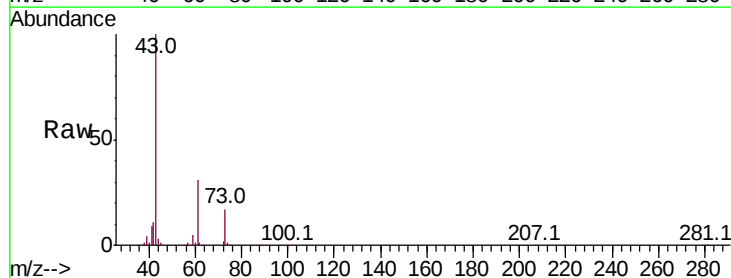
Tgt Ion: 41 Resp: 137952

Ion Ratio Lower Upper

41 100

69 0.1 72.8 109.2#

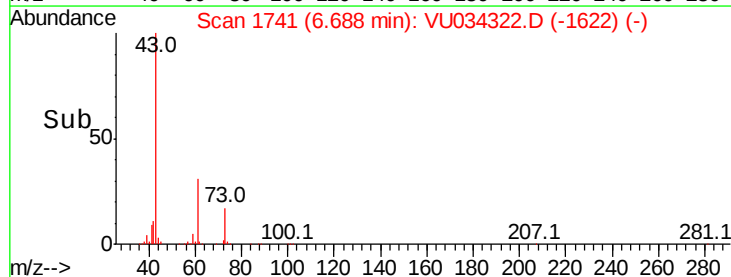
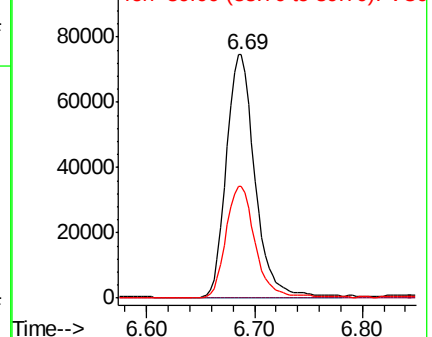
39 47.4 38.6 58.0

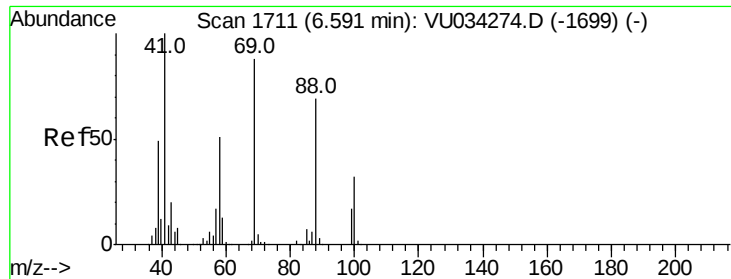


Abundance Ion 41.00 (40.70 to 41.70): VU034322.D (-1741) (-)

Ion 69.00 (68.70 to 69.70): VU034322.D (-1741) (-)

Ion 39.00 (38.70 to 39.70): VU034322.D (-1741) (-)





#49

1,4-Dioxane

Concen: 2.380 ug/l

RT: 6.68 min Scan# 1738

Delta R.T. 0.09 min

Lab File: VU034322.D

Acq: 06 Sep 2019 11:56

Instrument :
MSVOA_U
ClientSampleId :

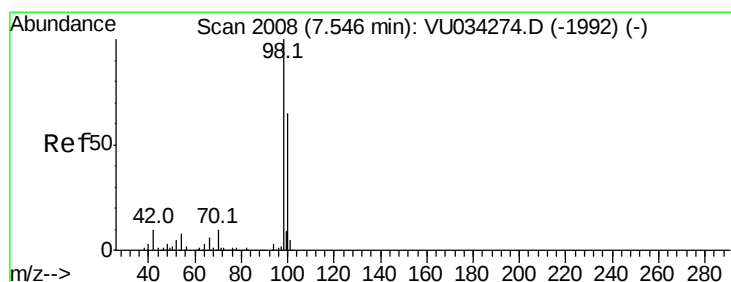
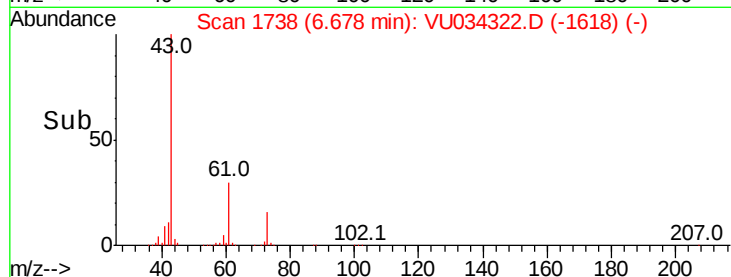
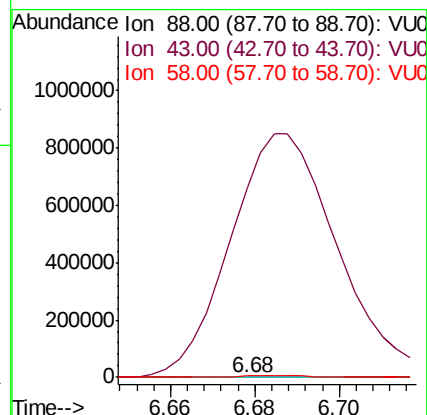
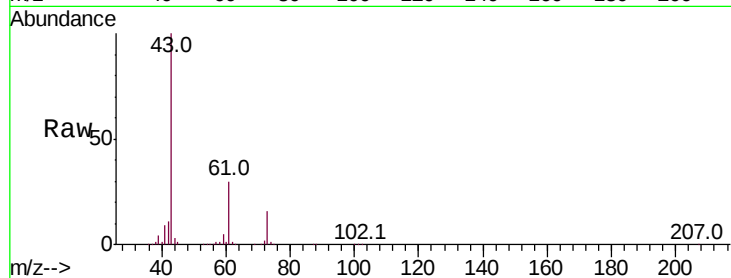
Tot Ion: 88 Resp: 214

Ion Ratio Lower Upper

88 100

43 727793.5 23.8 35.6#

58 3886.4 58.4 87.6#



#50

Toluene-d8

Concen: 51.251 ug/l

RT: 7.55 min Scan# 2008

Delta R.T. -0.00 min

Lab File: VU034322.D

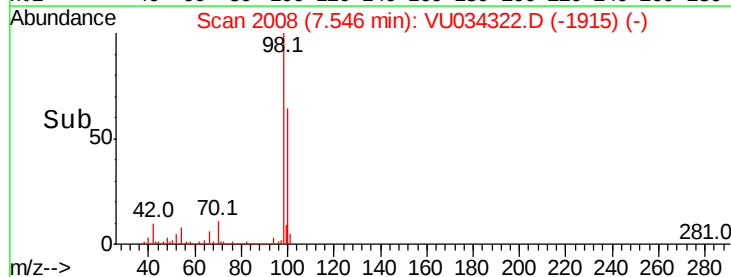
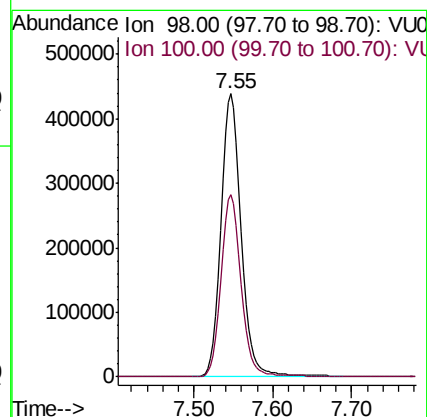
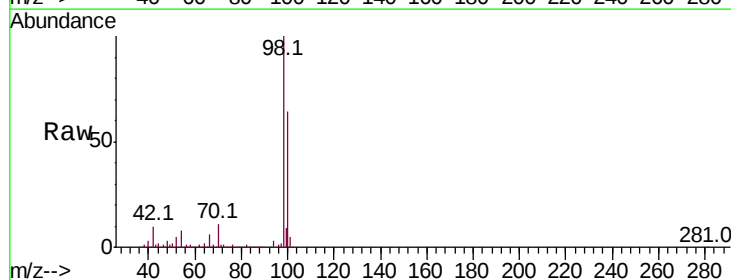
Acq: 06 Sep 2019 11:56

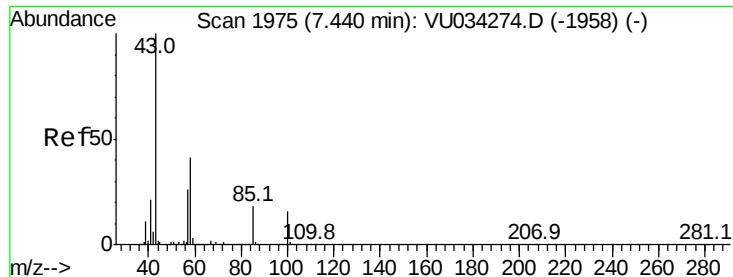
Tgt Ion: 98 Resp: 776445

Ion Ratio Lower Upper

98 100

100 64.0 51.7 77.5





#51

4-Methyl-2-Pentanone

Concen: 11.092 ug/l

RT: 7.40 min Scan# 1963

Delta R.T. -0.04 min

Lab File: VU034322.D

Acq: 06 Sep 2019 11:56

Instrument :

MSVOA_U

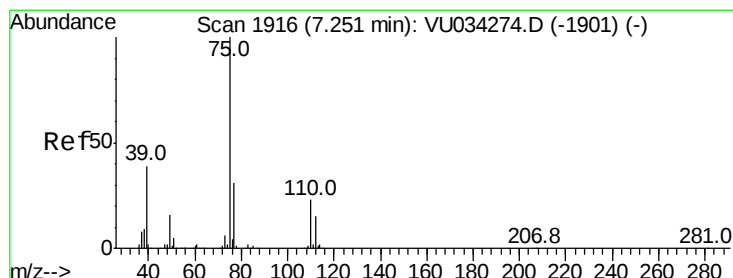
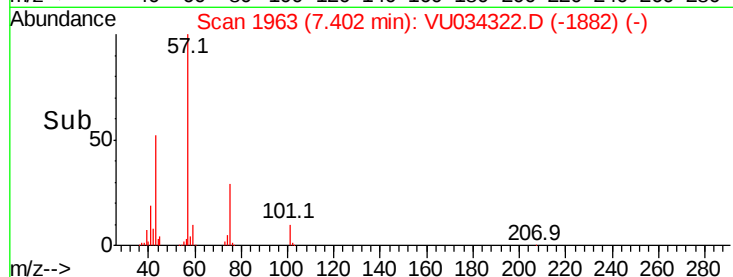
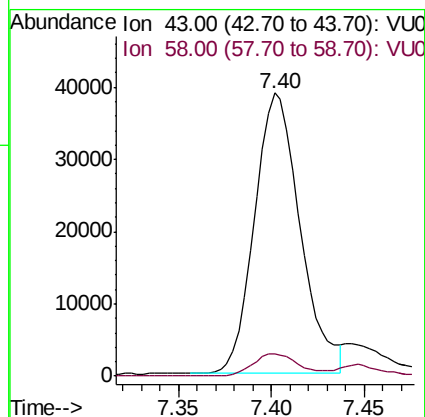
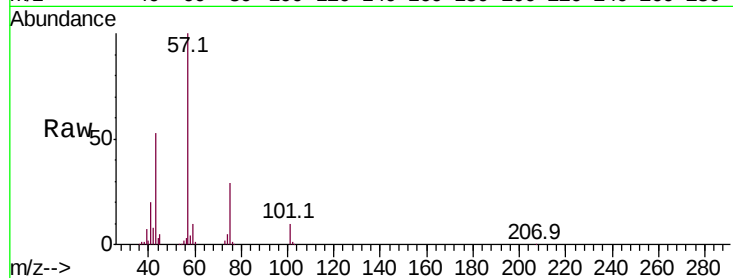
ClientSampleId :

Tot Ion: 43 Resp: 66552

Ion Ratio Lower Upper

43 100

58 8.0 33.0 49.4#



#54

cis-1,3-Dichloropropene

Concen: 5.723 ug/l

RT: 7.40 min Scan# 1963

Delta R.T. 0.15 min

Lab File: VU034322.D

Acq: 06 Sep 2019 11:56

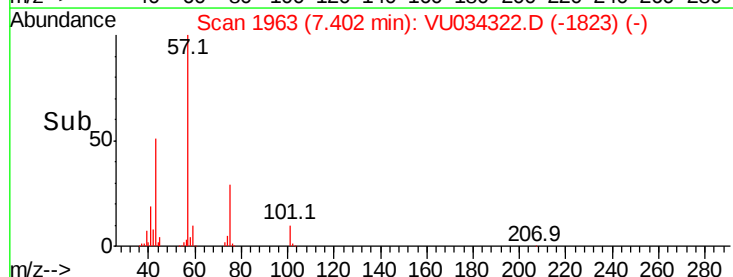
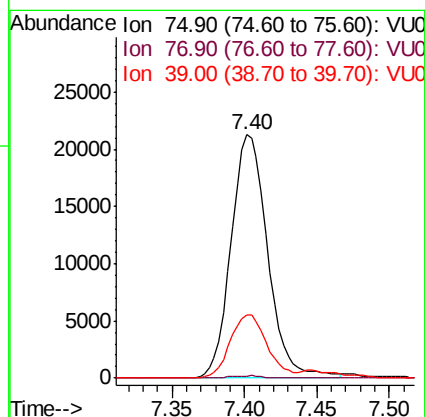
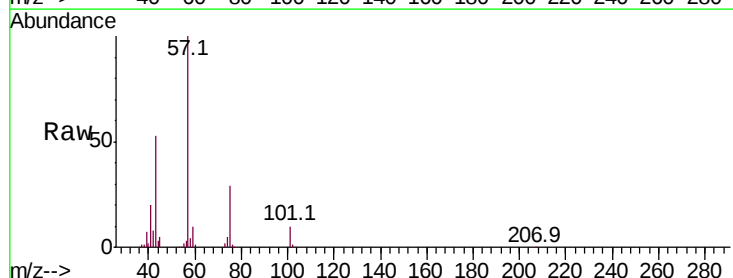
Tgt Ion: 75 Resp: 37296

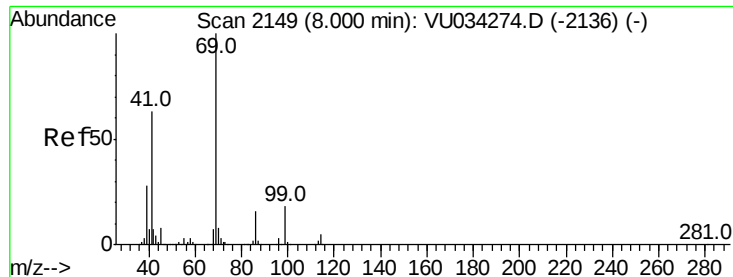
Ion Ratio Lower Upper

75 100

77 0.8 25.1 37.7#

39 25.9 31.2 46.8#





#56

Ethyl methacrylate

Concen: 3.093 ug/l

RT: 7.97 min Scan# 2141

Delta R.T. -0.03 min

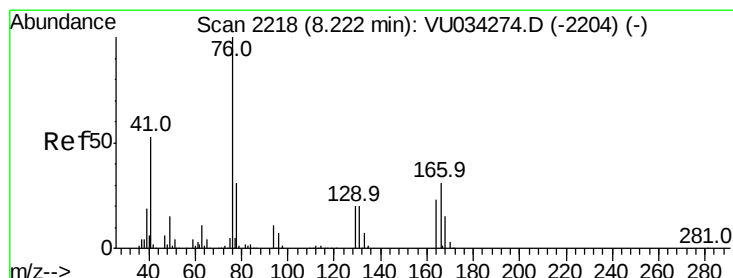
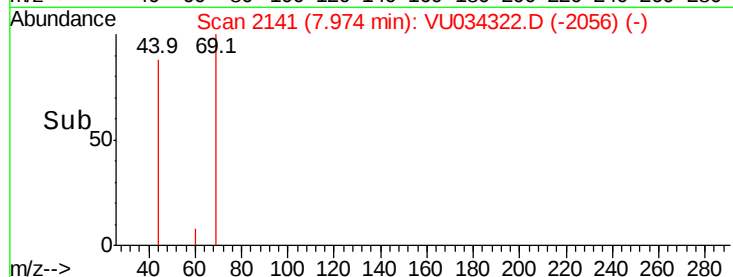
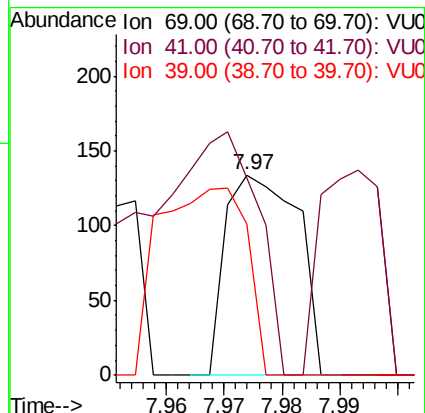
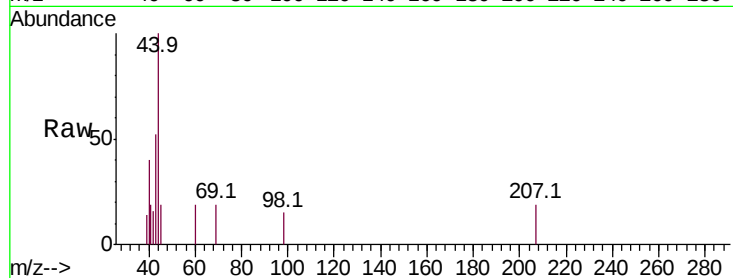
Lab File: VU034322.D

Acq: 06 Sep 2019 11:56

Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 69 Resp: 116

Ion	Ratio	Lower	Upper
69	100		
41	0.0	49.5	74.3#
39	0.0	22.5	33.7#



#57

1,3-Dichloropropane

Concen: 0.992 ug/l

RT: 8.40 min Scan# 2272

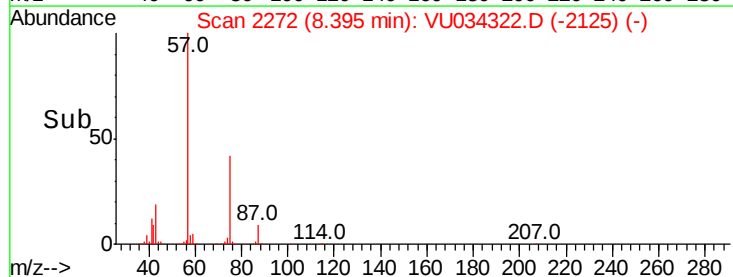
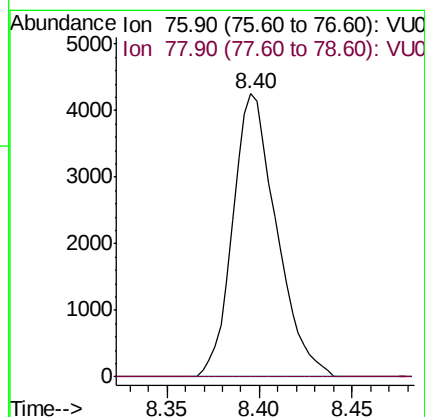
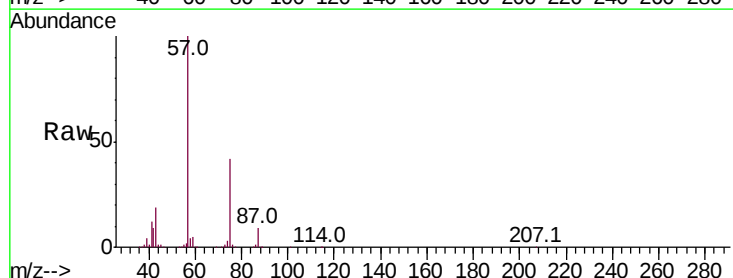
Delta R.T. 0.17 min

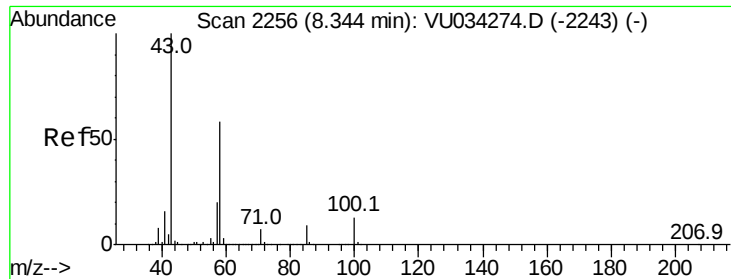
Lab File: VU034322.D

Acq: 06 Sep 2019 11:56

Tgt Ion: 76 Resp: 6979

Ion	Ratio	Lower	Upper
76	100		
78	0.0	25.4	38.2#

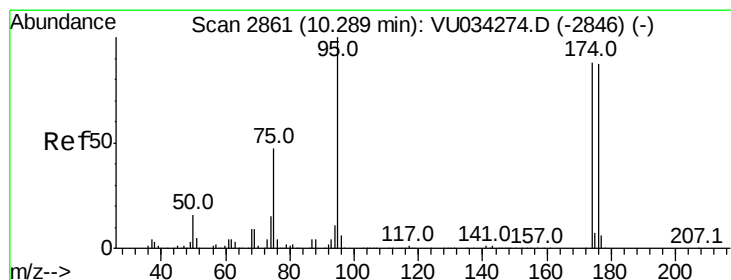
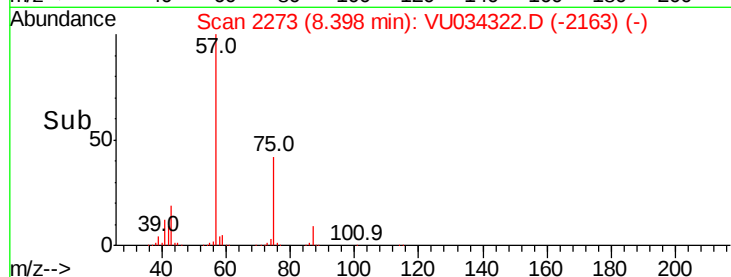
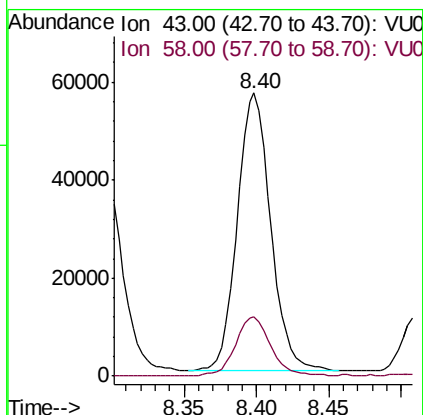
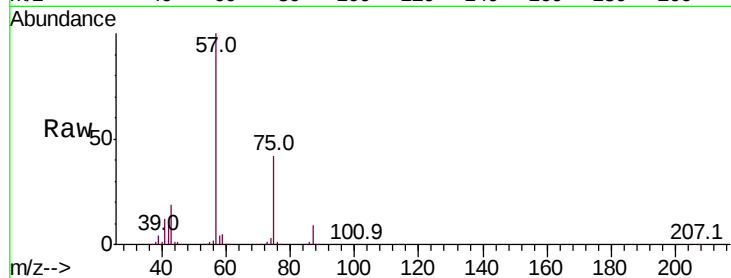




#59
2-Hexanone
Concen: 20.155 ug/l
RT: 8.40 min Scan# 2273
Delta R.T. 0.05 min
Lab File: VU034322.D
Acq: 06 Sep 2019 11:56

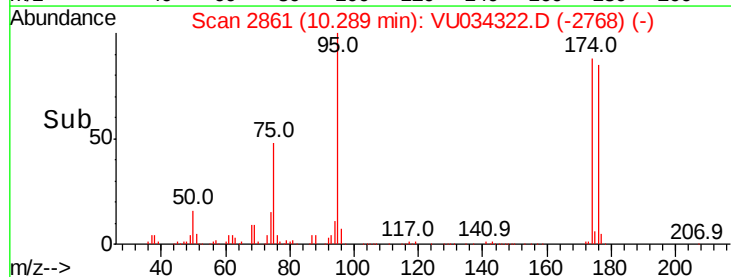
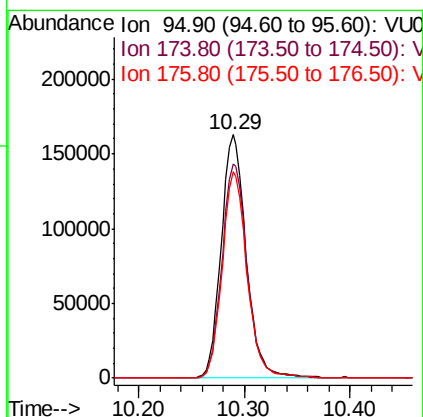
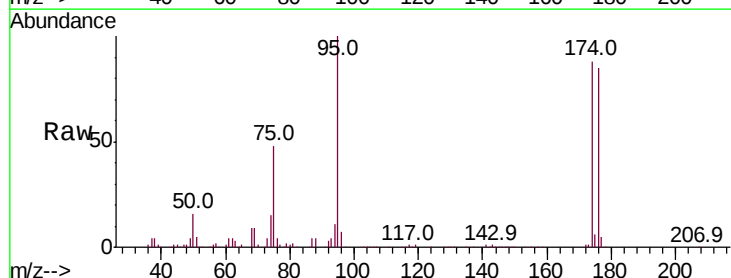
Instrument :
MSVOA_U
ClientSampleId :

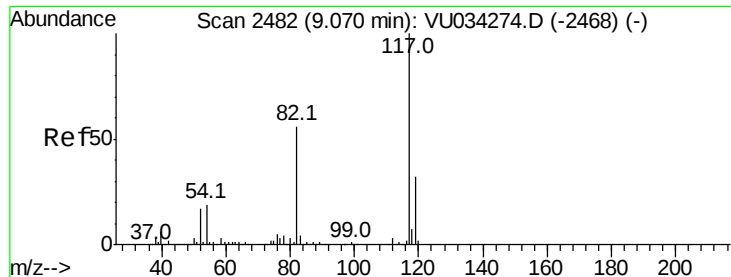
Tot Ion: 43 Resp: 90347
Ion Ratio Lower Upper
43 100
58 23.0 28.8 86.5#



#62
4-Bromofluorobenzene
Concen: 45.752 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. -0.00 min
Lab File: VU034322.D
Acq: 06 Sep 2019 11:56

Tgt Ion: 95 Resp: 267616
Ion Ratio Lower Upper
95 100
174 89.2 0.0 175.2
176 84.3 0.0 168.0

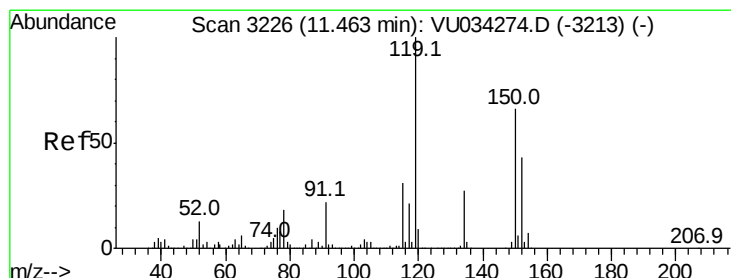
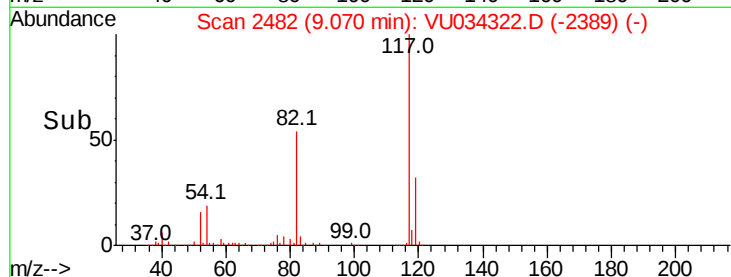
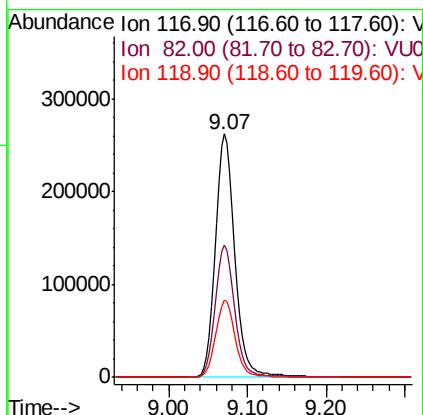
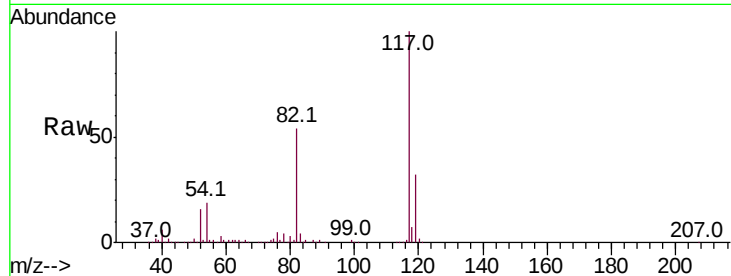




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. -0.00 min
Lab File: VU034322.D
Acq: 06 Sep 2019 11:56

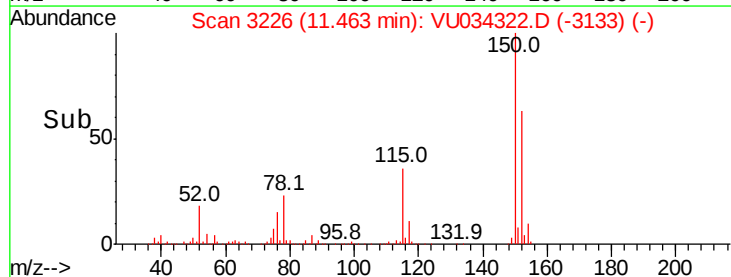
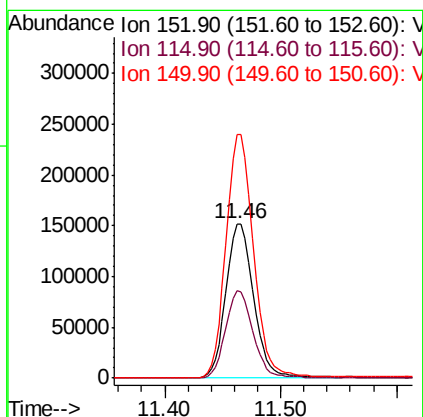
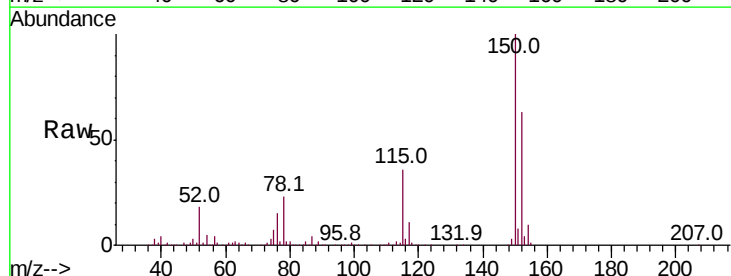
Instrument :
MSVOA_U
ClientSampleId :

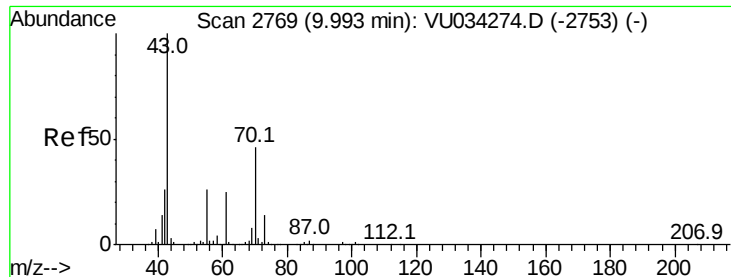
Tot Ion:117 Resp: 446738
Ion Ratio Lower Upper
117 100
82 54.3 44.6 67.0
119 31.6 25.9 38.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.46 min Scan# 3226
Delta R.T. -0.00 min
Lab File: VU034322.D
Acq: 06 Sep 2019 11:56

Tgt Ion:152 Resp: 252392
Ion Ratio Lower Upper
152 100
115 56.0 39.1 117.3
150 156.4 0.0 345.4





#74

N-amvl acetate

Concen: 0.324 ug/l

RT: 9.92 min Scan# 2746

Delta R.T. -0.07 min

Lab File: VU034322.D

Acq: 06 Sep 2019 11:56

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 43 Resp: 2139

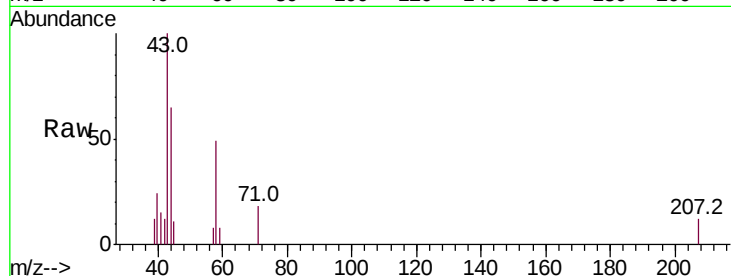
Ion Ratio Lower Upper

43 100

70 0.0 36.4 54.6#

55 2.9 21.2 31.8#

61 0.0 20.4 30.6#

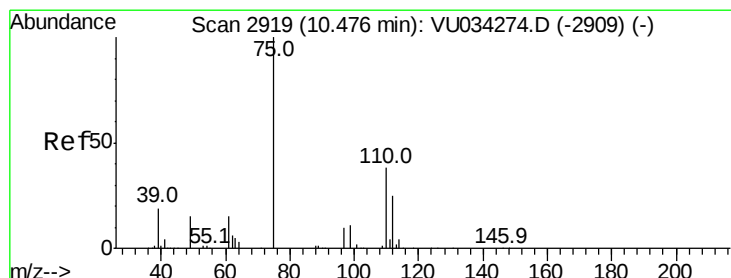
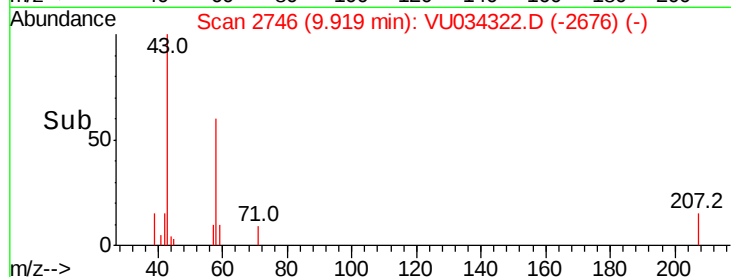
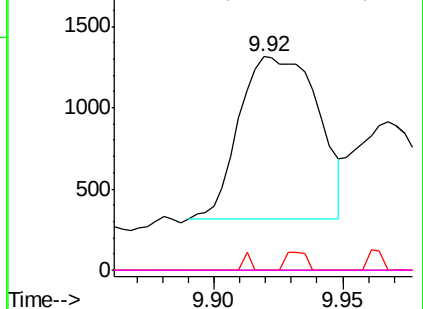


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 70.00 (69.70 to 70.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 61.00 (60.70 to 61.70): VU0



#76

1,2,3-Trichloropropane

Concen: 22.994 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.19 min

Lab File: VU034322.D

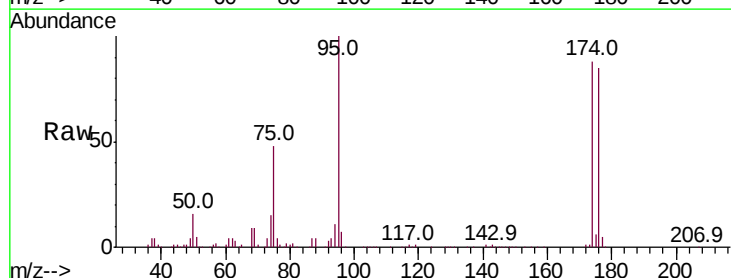
Acq: 06 Sep 2019 11:56

Tgt Ion: 75 Resp: 126680

Ion Ratio Lower Upper

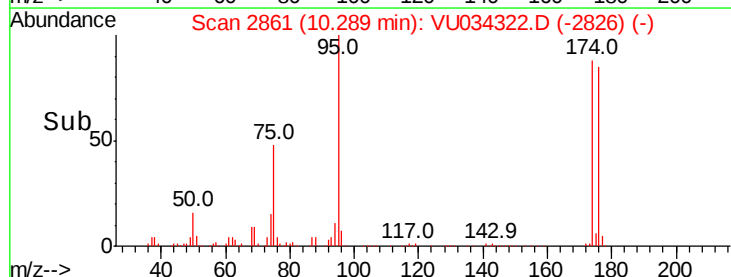
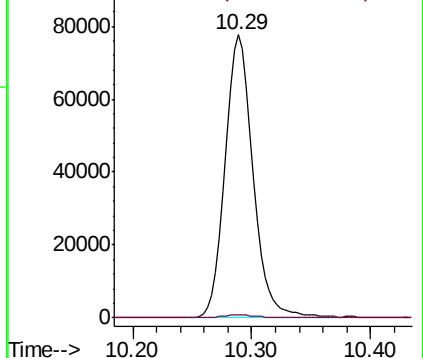
75 100

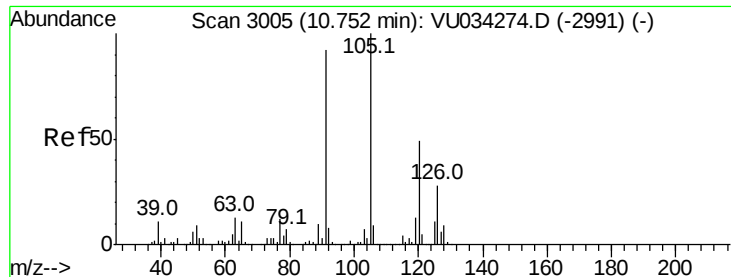
77 1.3 20.8 62.2#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0





#80

1,3,5-Trimethylbenzene

Concen: 0.713 ug/l

RT: 10.76 min Scan# 3006

Delta R.T. 0.00 min

Lab File: VU034322.D

Acq: 06 Sep 2019 11:56

Instrument :

MSVOA_U

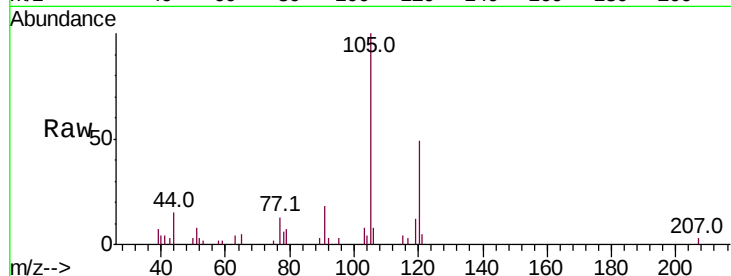
ClientSampleId :

Tot Ion:105 Resp: 9793

Ion Ratio Lower Upper

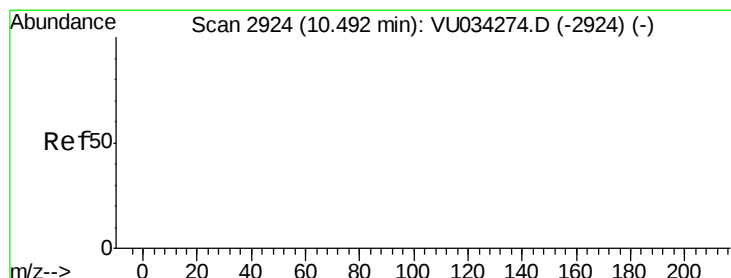
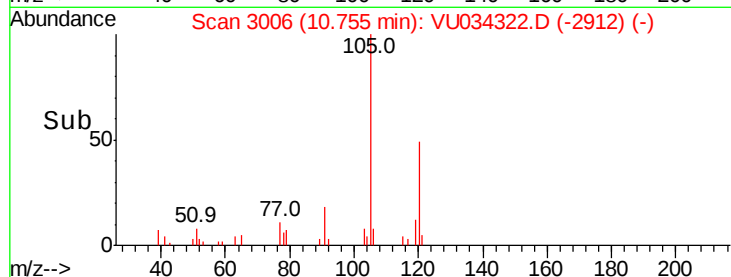
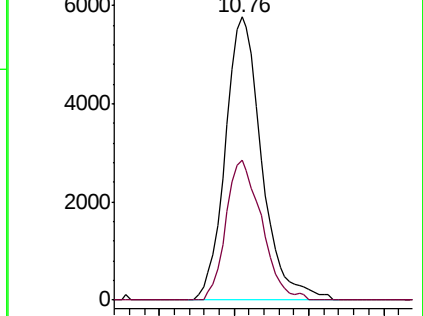
105 100

120 48.5 24.9 74.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 77.327 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.20 min

Lab File: VU034322.D

Acq: 06 Sep 2019 11:56

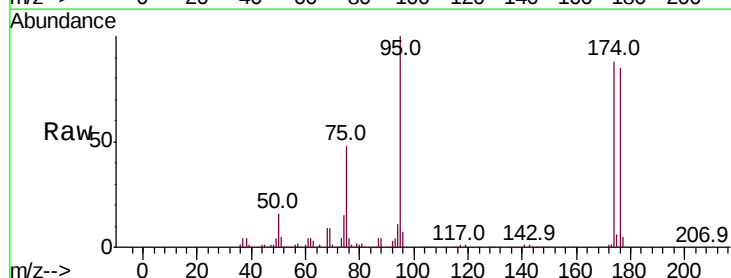
Tgt Ion: 75 Resp: 126680

Ion Ratio Lower Upper

75 100

53 0.1 0.0 0.0#

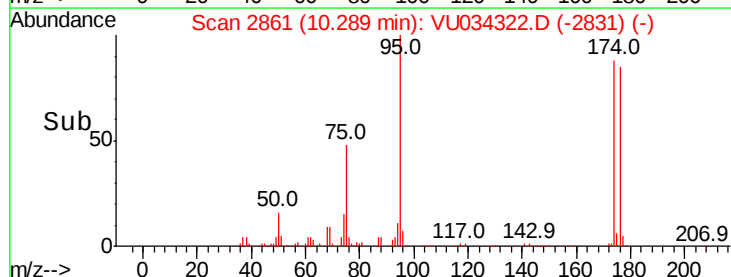
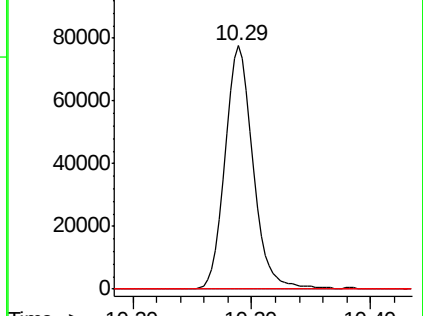
89 0.0 0.0 0.0#

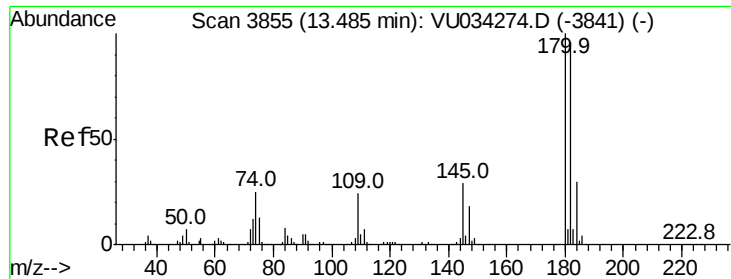


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.90 (88.60 to 89.60): VU0

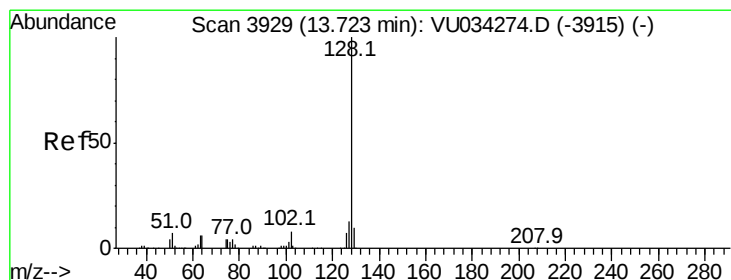
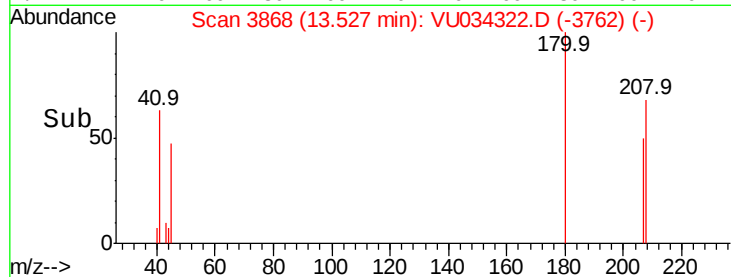
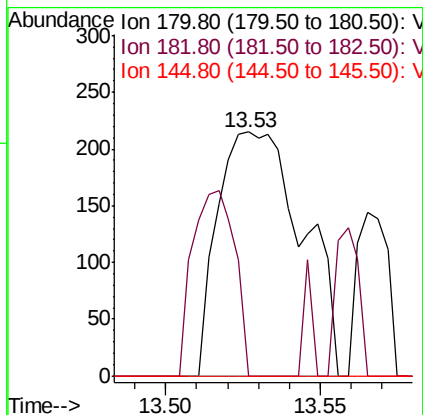
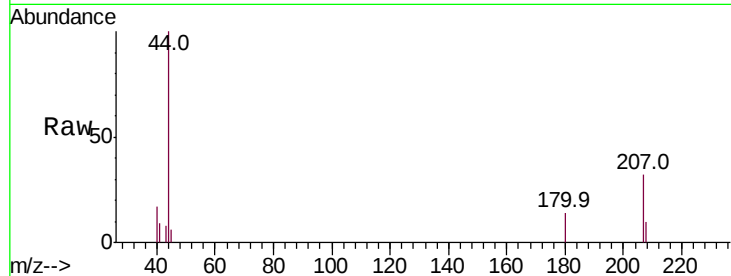




#93
 1,2,4-Trichlorobenzene
 Concen: 3.515 ug/l
 RT: 13.53 min Scan# 3868
 Delta R.T. 0.04 min
 Lab File: VU034322.D
 Acq: 06 Sep 2019 11:56

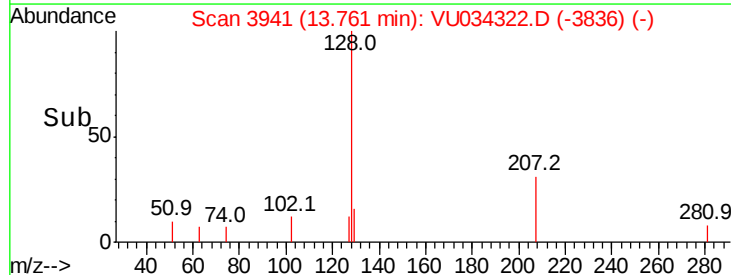
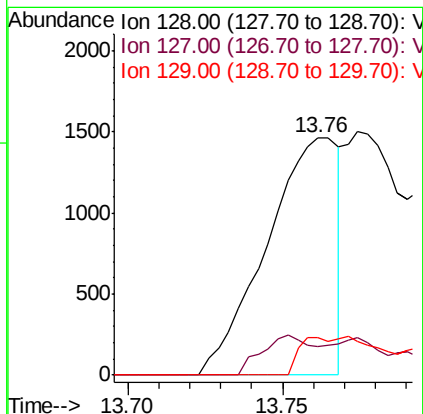
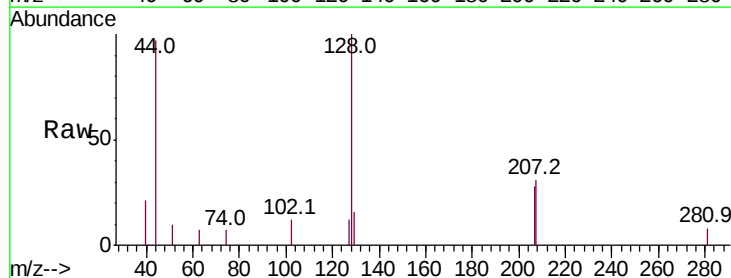
Instrument :
 MSVOA_U
 ClientSampleID :

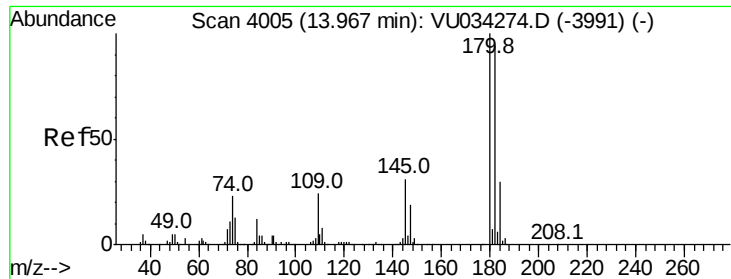
Tot Ion:180 Resp: 409
 Ion Ratio Lower Upper
 180 100
 182 37.9 47.9 143.8#
 145 0.0 14.4 43.0#



#95
 Naphthalene
 Concen: 4.095 ug/l
 RT: 13.76 min Scan# 3941
 Delta R.T. 0.04 min
 Lab File: VU034322.D
 Acq: 06 Sep 2019 11:56

Tgt Ion:128 Resp: 2362
 Ion Ratio Lower Upper
 128 100
 127 11.9 10.6 15.8
 129 6.9 8.4 12.6#





#96

1,2,3-Trichlorobenzene

Concen: 2.673 ug/l

RT: 14.00 min Scan# 4016

Delta R.T. 0.04 min

Lab File: VU034322.D

Acq: 06 Sep 2019 11:56

Instrument :

MSVOA_U

ClientSampleId :

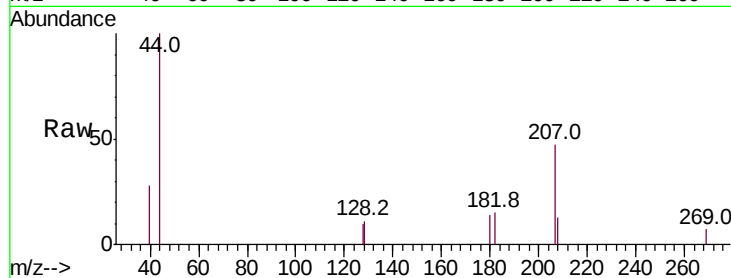
Tot Ion:180 Resp: 208

Ion Ratio Lower Upper

180 100

182 149.0 48.4 145.0#

145 0.0 15.4 46.4#



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

