

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU062318\
 Data File : VU024853.D
 Acq On : 22 Jun 2018 23:52
 Operator : MD/SY
 Sample : J3662-05
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 DUP-0449-180618

Quant Time: Jun 25 10:08:31 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U061318W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 13 13:55:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	192040	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	293893	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	276913	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	152965	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.31	65	145972	46.56	ug/l	0.00
Spiked Amount 50.000			Recovery =	93.12%		
35) Dibromofluoromethane	4.89	113	115537	47.37	ug/l	0.00
Spiked Amount 50.000			Recovery =	94.74%		
50) Toluene-d8	7.57	98	430345	48.37	ug/l	0.00
Spiked Amount 50.000			Recovery =	96.74%		
62) 4-Bromofluorobenzene	10.31	95	162191	45.92	ug/l	0.00
Spiked Amount 50.000			Recovery =	91.84%		

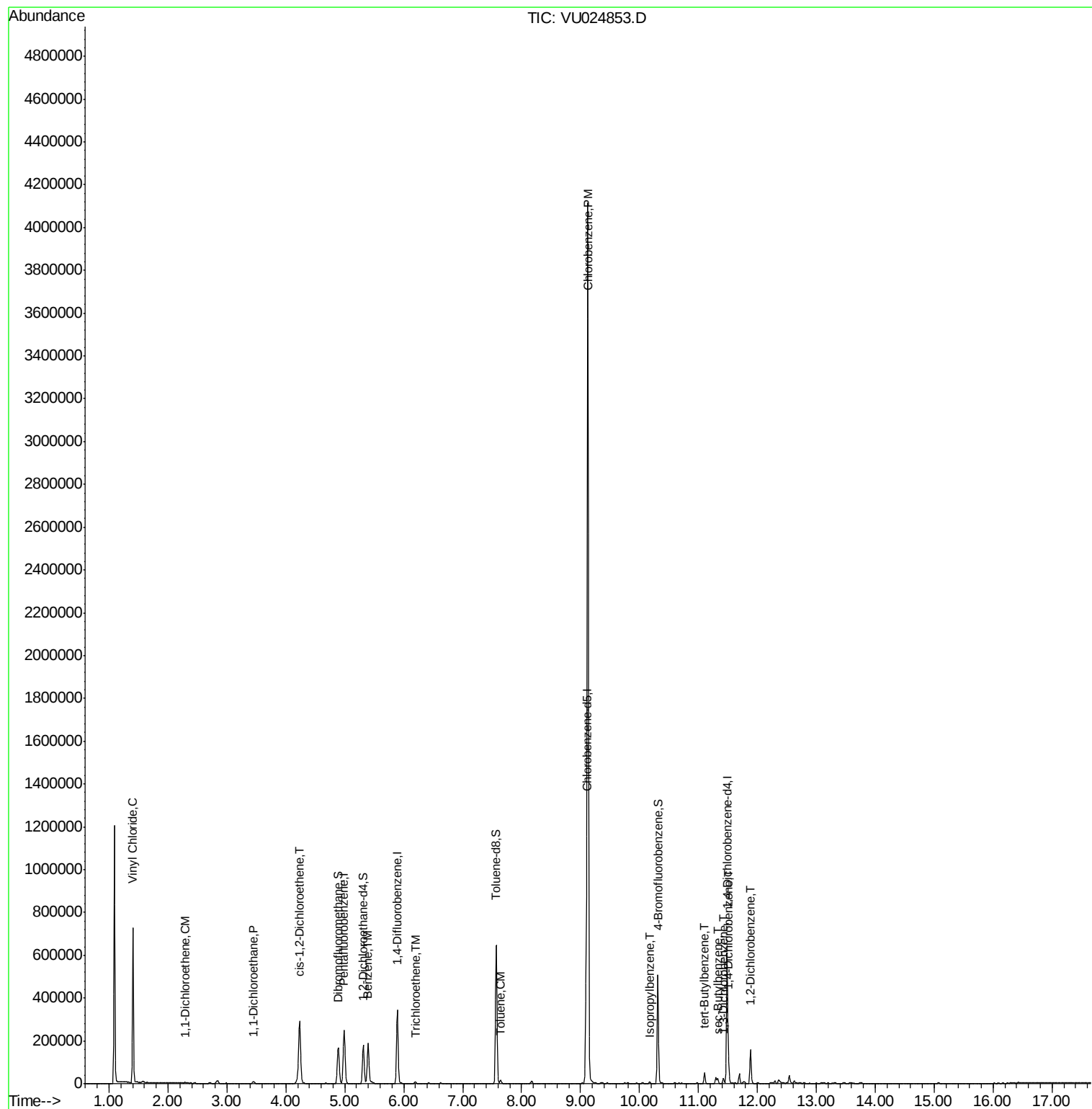
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.40	62	459819	181.56	ug/l	97
12) 1,1-Dichloroethene	2.29	96	1942	0.89	ug/l	89
24) 1,1-Dichloroethane	3.45	63	11407	2.46	ug/l	98
27) cis-1,2-Dichloroethene	4.23	96	162603	58.73	ug/l	89
40) Benzene	5.39	78	183529	18.65	ug/l	99
44) Trichloroethene	6.19	130	3293	1.18	ug/l	97
52) Toluene	7.64	92	5746	0.91	ug/l	92
65) Chlorobenzene	9.12	112	2088987	295.30	ug/l	99
73) Isopropylbenzene	10.17	105	5246	0.45	ug/l	98
83) tert-Butylbenzene	11.10	119	23595	2.41	ug/l	91
85) sec-Butylbenzene	11.33	105	16636	1.36	ug/l	98
87) 1,3-Dichlorobenzene	11.42	146	9440	1.72	ug/l	95
88) 1,4-Dichlorobenzene	11.51	146	27080	4.90	ug/l	97
91) 1,2-Dichlorobenzene	11.88	146	60952	11.08	ug/l	98

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

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.00 min

Lab File: VU024853.D

Acq: 22 Jun 2018 23:52

Instrument :

MSVOA_U

ClientSampleId :

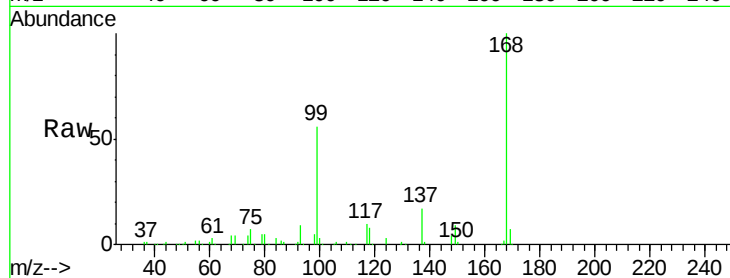
DUP-0449-180618

Tot Ion:168 Resp: 192040

Ion Ratio Lower Upper

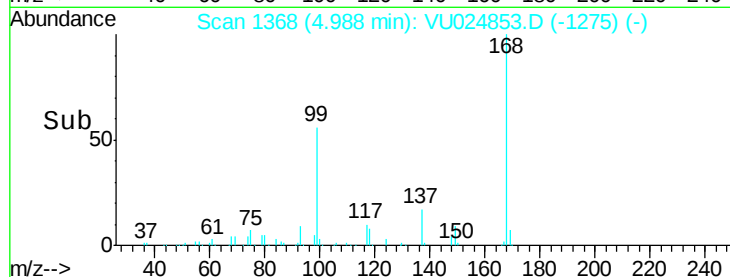
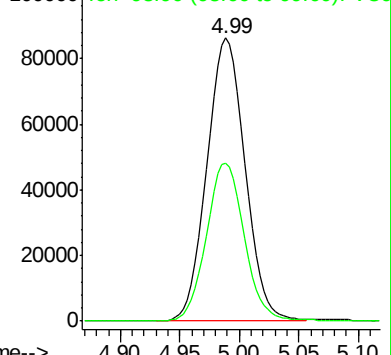
168 100

99 55.9 43.2 64.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VU0



#4

Vinyl Chloride

Concen: 181.56 ug/l

RT: 1.40 min Scan# 253

Delta R.T. -0.00 min

Lab File: VU024853.D

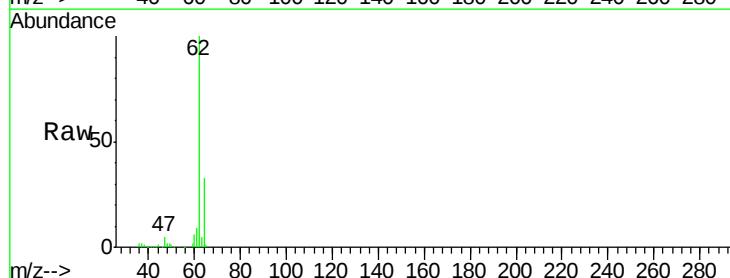
Acq: 22 Jun 2018 23:52

Tgt Ion: 62 Resp: 459819

Ion Ratio Lower Upper

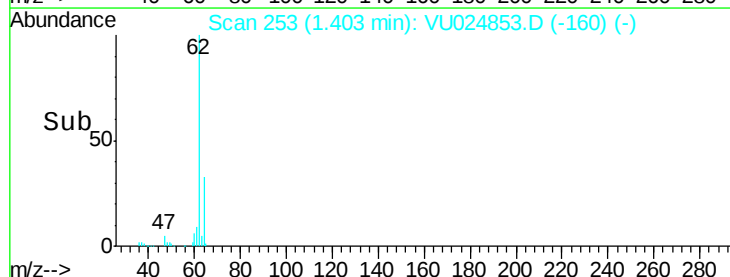
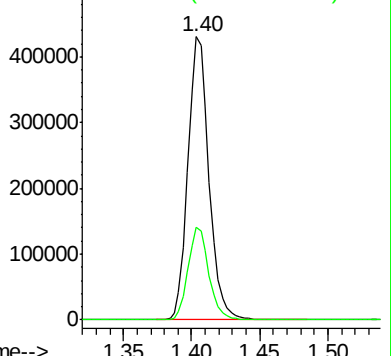
62 100

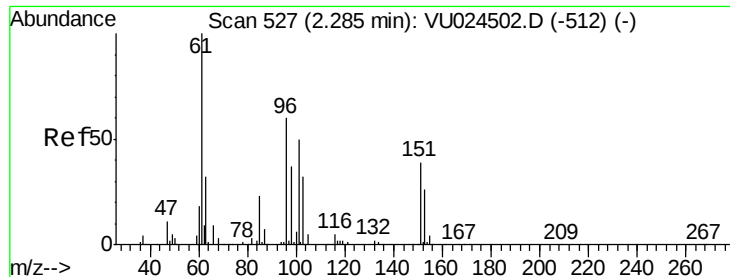
64 32.6 24.8 37.2



Abundance Ion 61.90 (61.60 to 62.60): VU0

Ion 63.90 (63.60 to 64.60): VU0





#12

1,1-Dichloroethene

Concen: 0.89 ug/l

RT: 2.29 min Scan# 529

Delta R.T. 0.01 min

Lab File: VU024853.D

Acq: 22 Jun 2018 23:52

Instrument :

MSVOA_U

ClientSampleId :

DUP-0449-180618

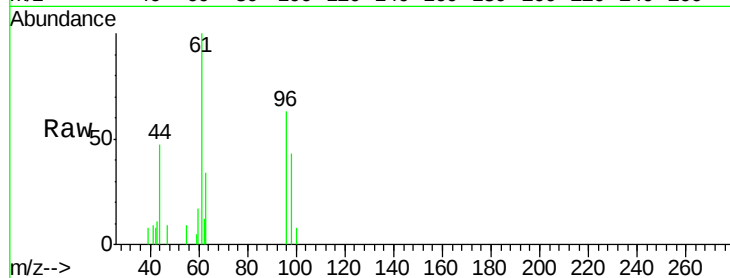
Tot Ion: 96 Resp: 1942

Ion Ratio Lower Upper

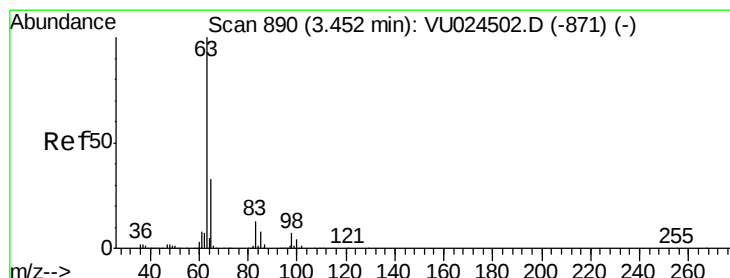
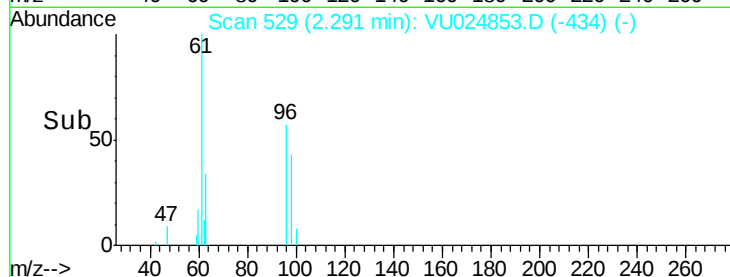
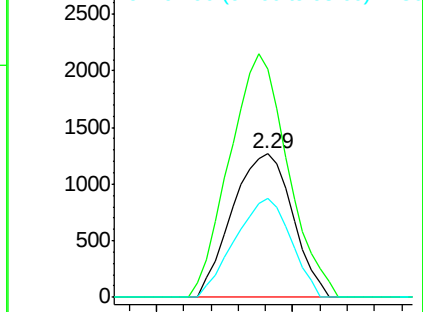
96 100

61 159.8 141.7 212.5

98 69.1 51.6 77.4



Abundance Ion 95.90 (95.60 to 96.60): VU0
Ion 60.90 (60.60 to 61.60): VU0
Ion 97.90 (97.60 to 98.60): VU0



#24

1,1-Dichloroethane

Concen: 2.46 ug/l

RT: 3.45 min Scan# 890

Delta R.T. -0.00 min

Lab File: VU024853.D

Acq: 22 Jun 2018 23:52

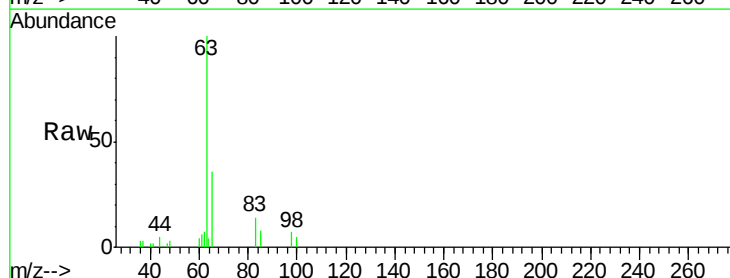
Tgt Ion: 63 Resp: 11407

Ion Ratio Lower Upper

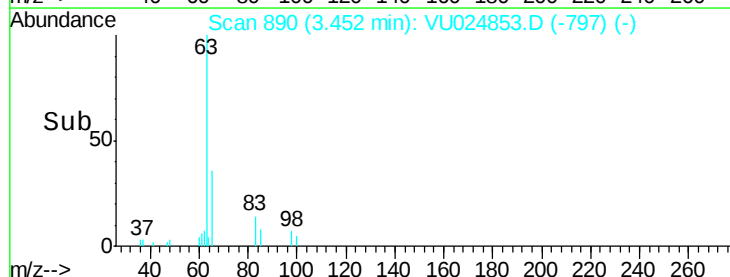
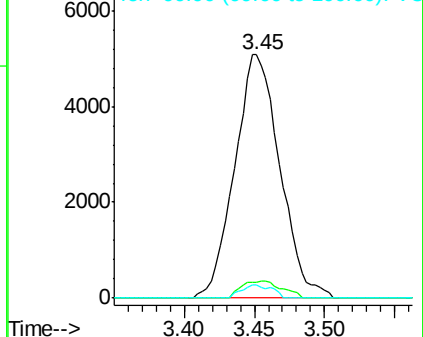
63 100

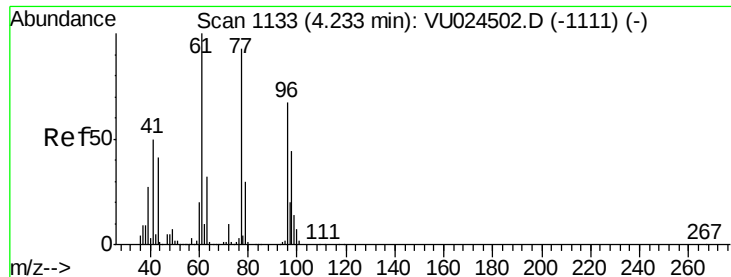
98 6.5 3.5 10.4

100 5.4 1.8 5.5



Abundance Ion 62.90 (62.60 to 63.60): VU0
Ion 97.90 (97.60 to 98.60): VU0
Ion 99.90 (99.60 to 100.60): VU0





#27

cis-1,2-Dichloroethene

Concen: 58.73 ug/l

RT: 4.23 min Scan# 1133

Delta R.T. -0.00 min

Lab File: VU024853.D

Acq: 22 Jun 2018 23:52

Instrument :

MSVOA_U

ClientSampleId :

DUP-0449-180618

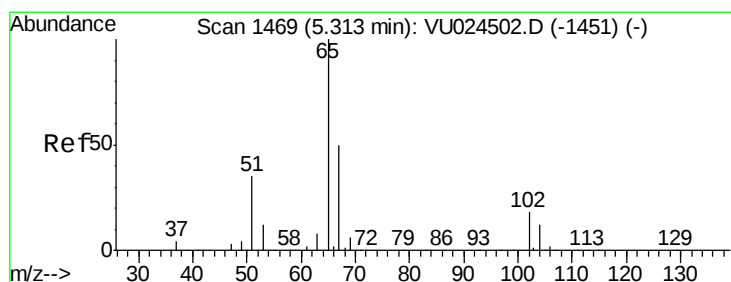
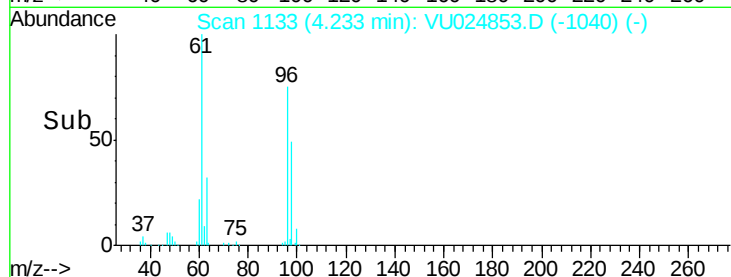
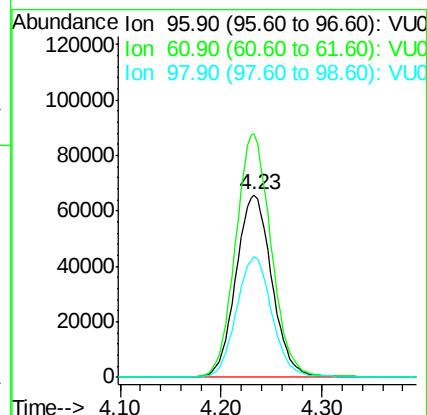
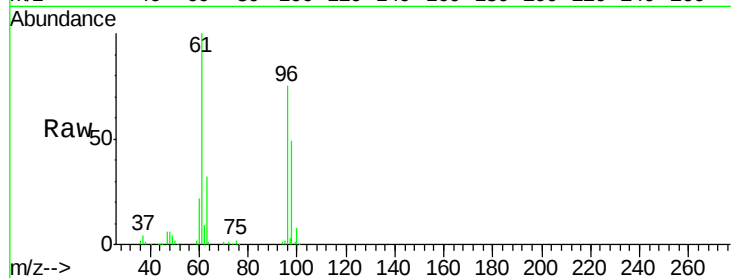
Tot Ion: 96 Resp: 162603

Ion Ratio Lower Upper

96 100

61 133.2 0.0 306.6

98 65.5 0.0 128.8



#33

1,2-Dichloroethane-d4

Concen: 46.56 ug/l

RT: 5.31 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VU024853.D

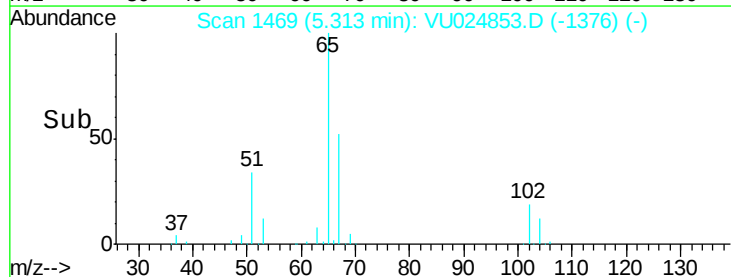
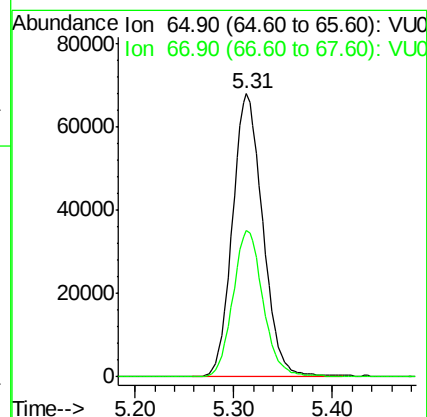
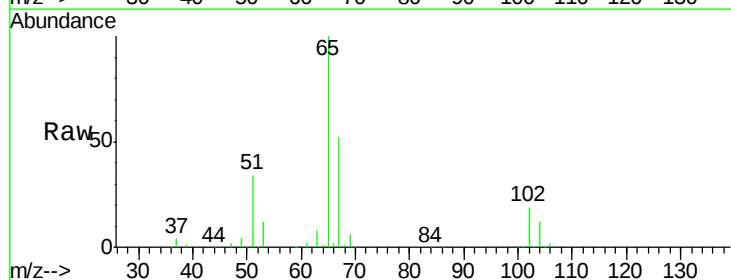
Acq: 22 Jun 2018 23:52

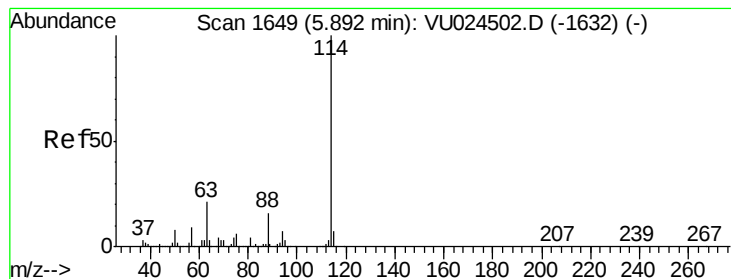
Tgt Ion: 65 Resp: 145972

Ion Ratio Lower Upper

65 100

67 51.2 0.0 107.0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.89 min Scan# 1649

Delta R.T. -0.00 min

Lab File: VU024853.D

Acq: 22 Jun 2018 23:52

Instrument :

MSVOA_U

ClientSampleId :

DUP-0449-180618

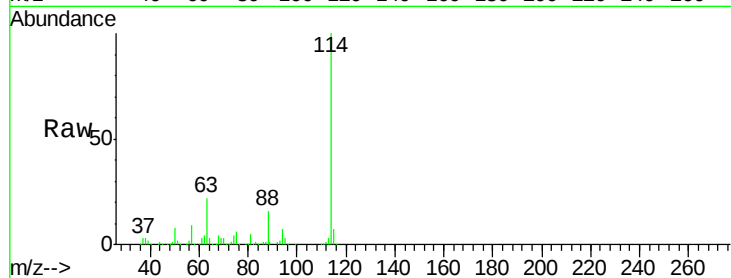
Tot Ion:114 Resp: 293893

Ion Ratio Lower Upper

114 100

63 21.6 0.0 45.4

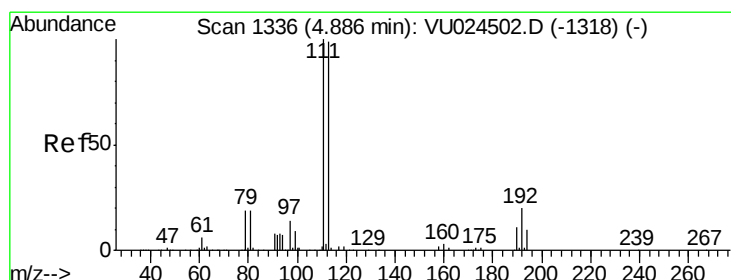
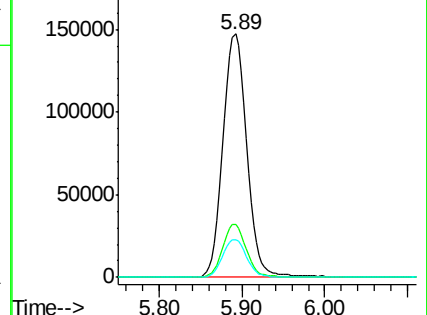
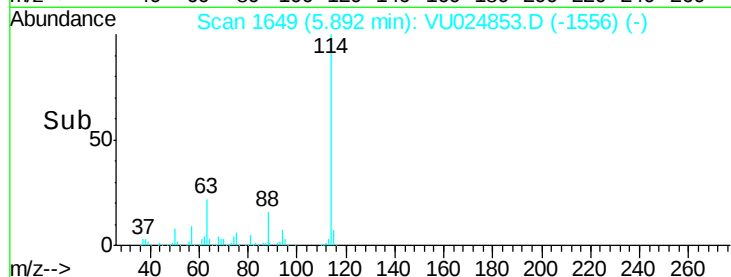
88 15.7 0.0 31.0



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: 47.37 ug/l

RT: 4.89 min Scan# 1337

Delta R.T. 0.00 min

Lab File: VU024853.D

Acq: 22 Jun 2018 23:52

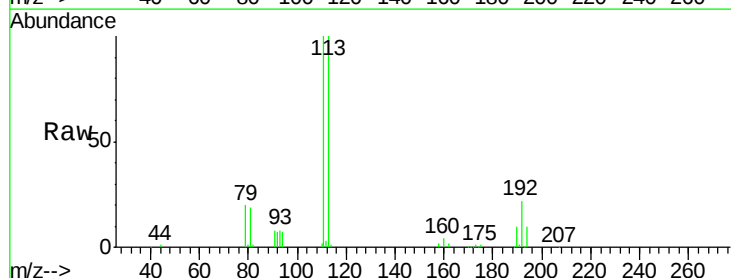
Tgt Ion:113 Resp: 115537

Ion Ratio Lower Upper

113 100

111 102.0 82.2 123.4

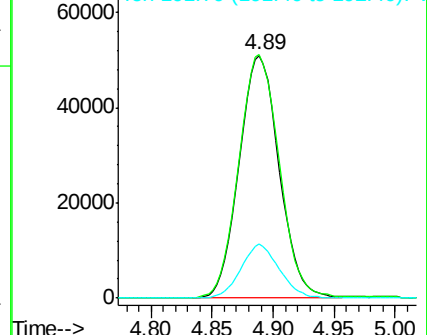
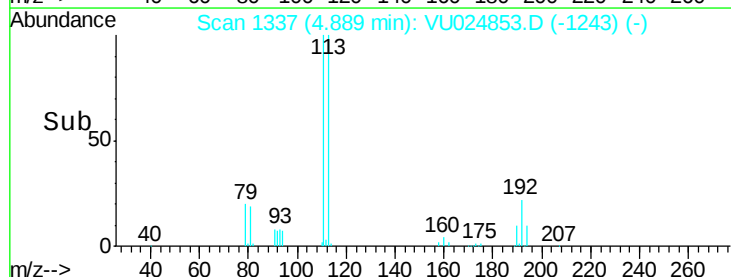
192 21.4 16.2 24.4

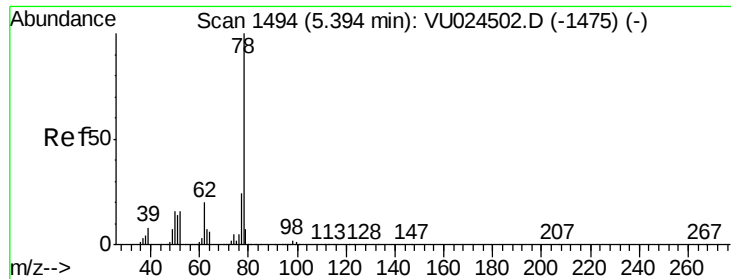


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#40

Benzene

Concen: 18.65 ug/l

RT: 5.39 min Scan# 1494

Delta R.T. -0.00 min

Lab File: VU024853.D

Acq: 22 Jun 2018 23:52

Instrument :

MSVOA_U

ClientSampleId :

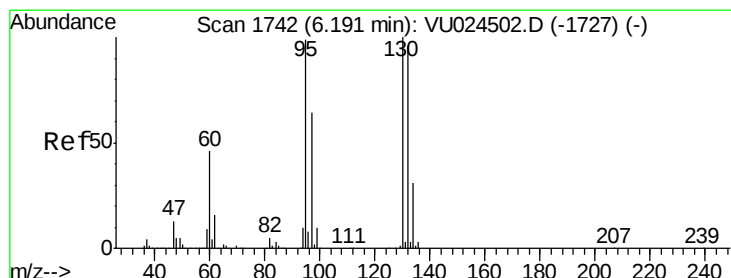
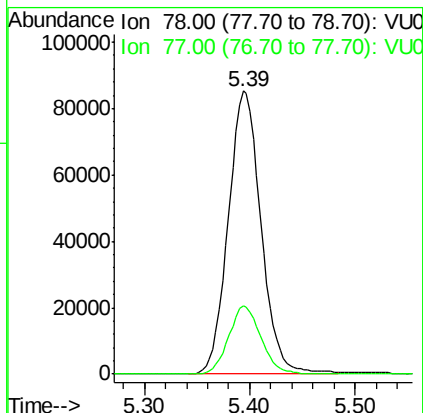
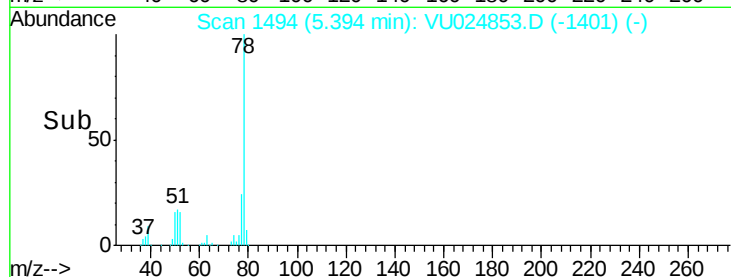
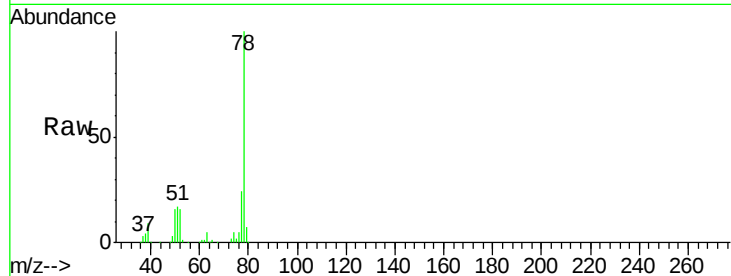
DUP-0449-180618

Tot Ion: 78 Resp: 183529

Ion Ratio Lower Upper

78 100

77 24.3 19.2 28.8



#44

Trichloroethene

Concen: 1.18 ug/l

RT: 6.19 min Scan# 1743

Delta R.T. 0.00 min

Lab File: VU024853.D

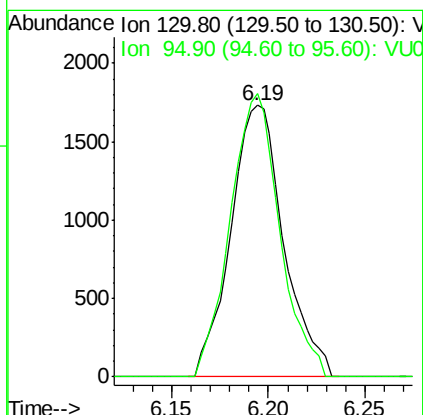
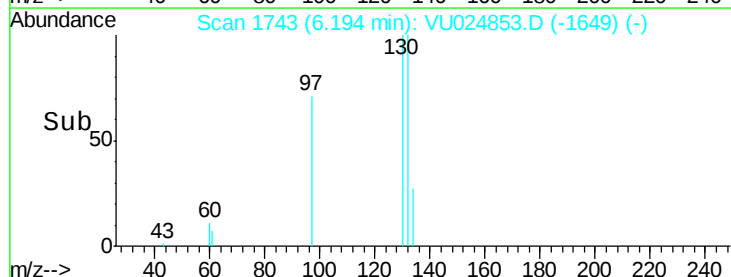
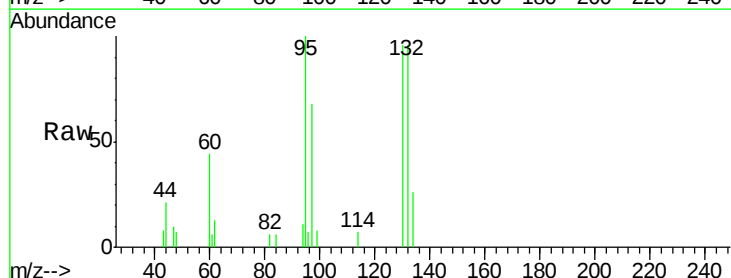
Acq: 22 Jun 2018 23:52

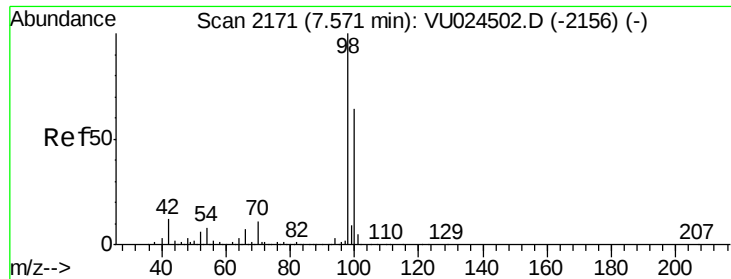
Tgt Ion:130 Resp: 3293

Ion Ratio Lower Upper

130 100

95 104.3 0.0 202.4

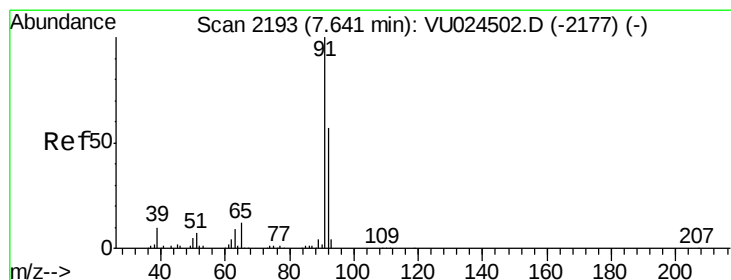
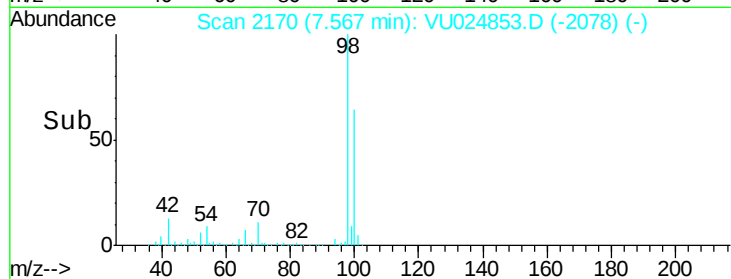
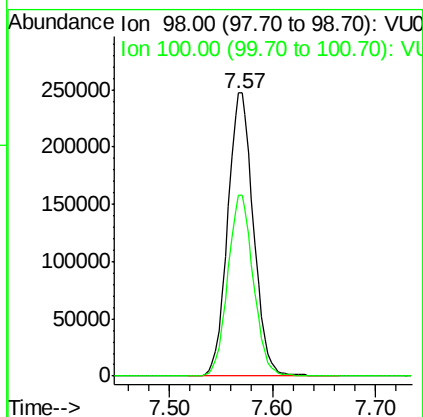
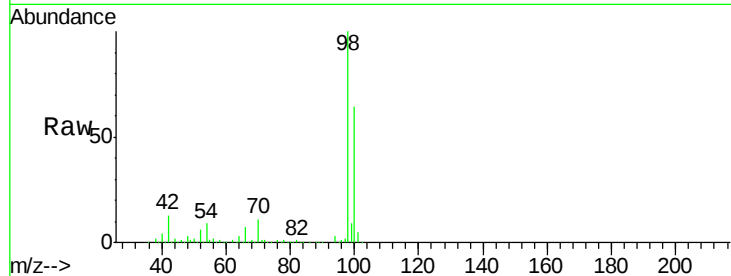




#50
Toluene-d8
Concen: 48.37 ug/l
RT: 7.57 min Scan# 2170
Delta R.T. -0.00 min
Lab File: VU024853.D
Acq: 22 Jun 2018 23:52

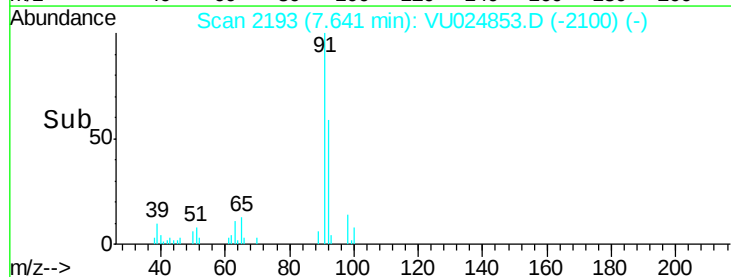
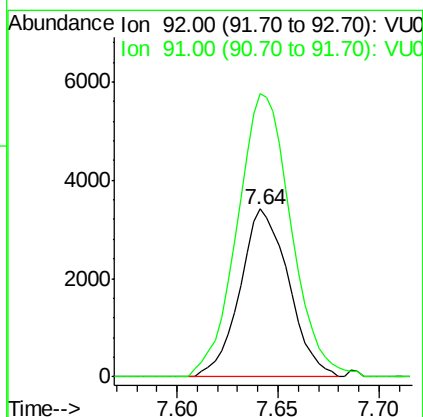
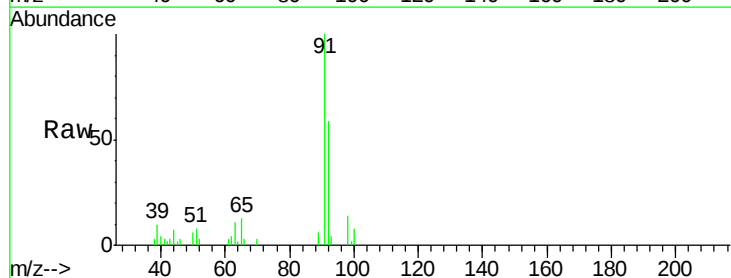
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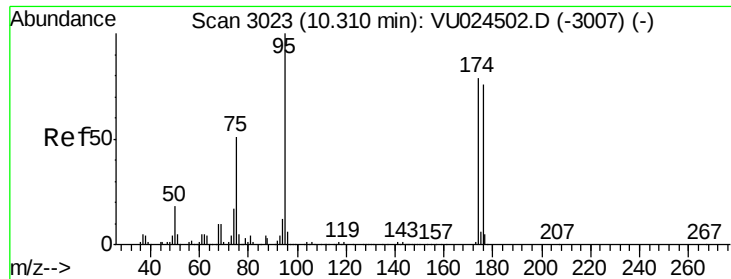
Tot Ion: 98 Resp: 430345
Ion Ratio Lower Upper
98 100
100 63.7 51.1 76.7



#52
Toluene
Concen: 0.91 ug/l
RT: 7.64 min Scan# 2193
Delta R.T. -0.00 min
Lab File: VU024853.D
Acq: 22 Jun 2018 23:52

Tgt Ion: 92 Resp: 5746
Ion Ratio Lower Upper
92 100
91 187.4 140.5 210.7

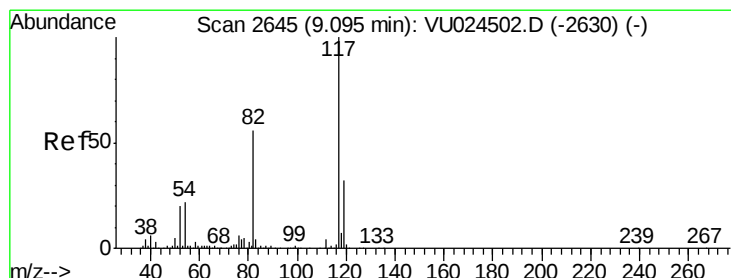
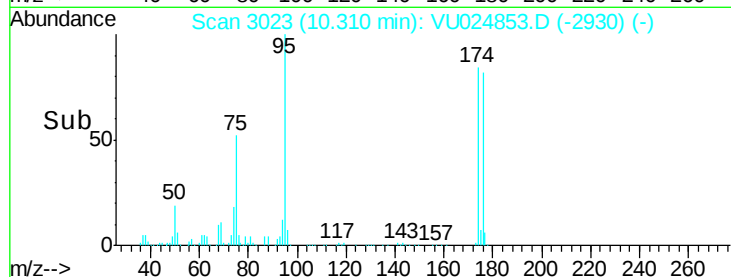
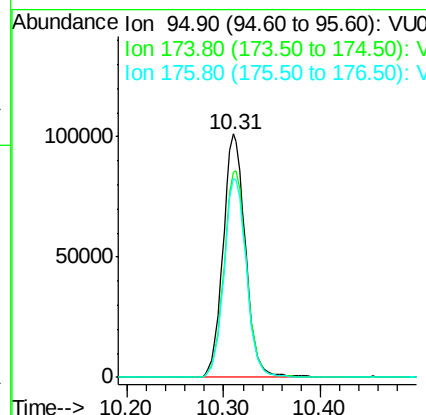
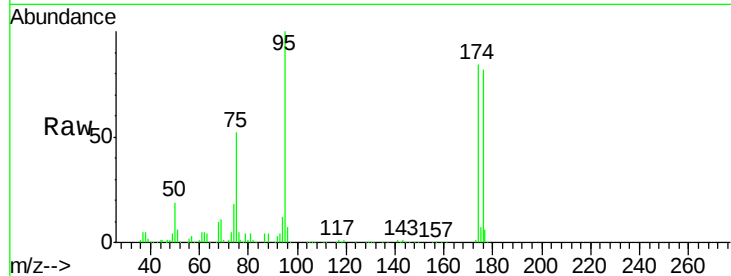




#62
4-Bromofluorobenzene
Concen: 45.92 ug/l
RT: 10.31 min Scan# 3023
Delta R.T. -0.00 min
Lab File: VU024853.D
Acq: 22 Jun 2018 23:52

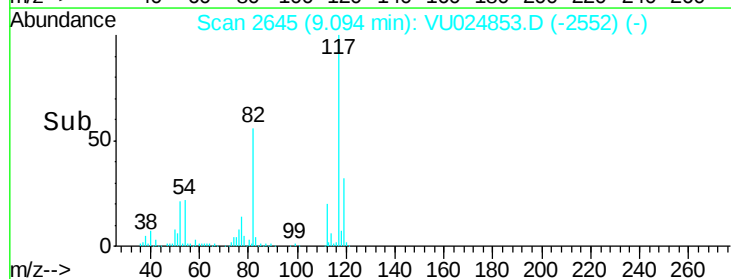
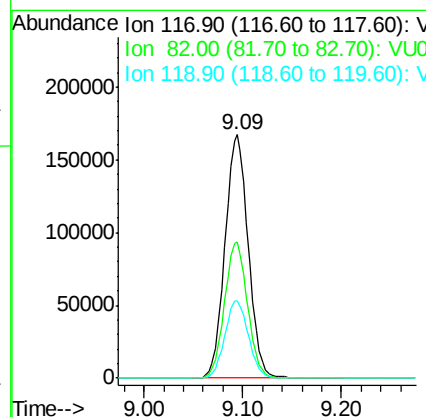
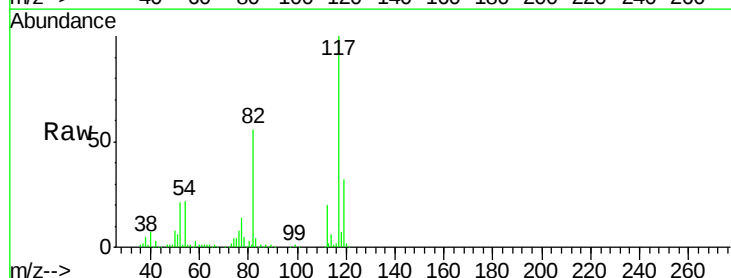
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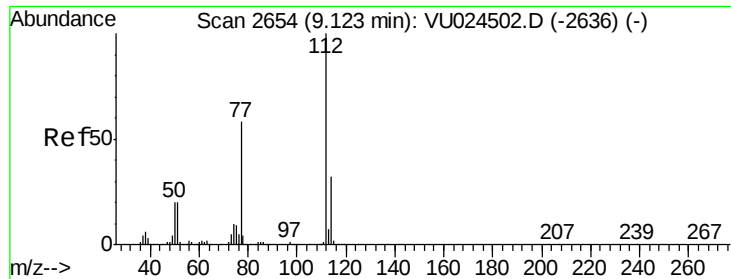
Tot Ion	Ratio	Lower	Upper
95	100		
174	85.3	0.0	165.8
176	81.3	0.0	159.4



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.09 min Scan# 2645
Delta R.T. -0.00 min
Lab File: VU024853.D
Acq: 22 Jun 2018 23:52

Tgt Ion	Ratio	Lower	Upper
117	100		
82	56.0	44.3	66.5
119	31.9	25.4	38.2

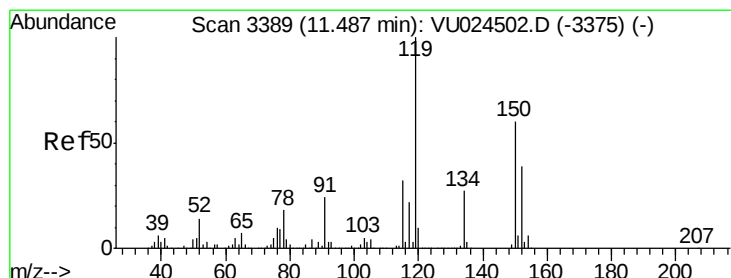
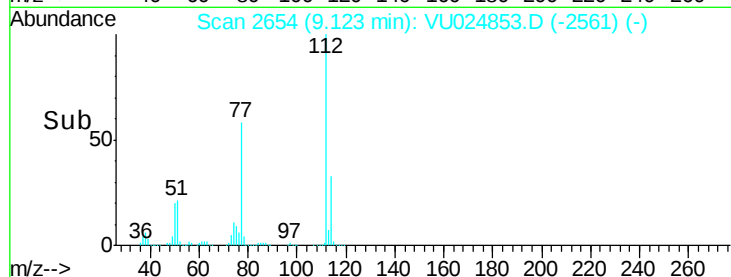
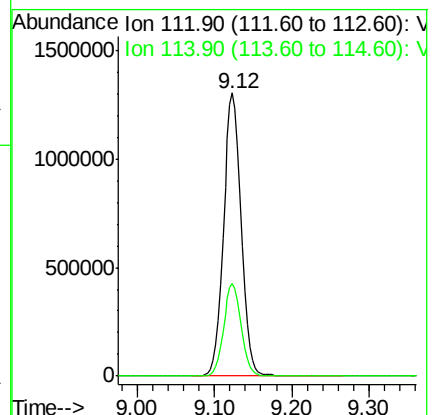
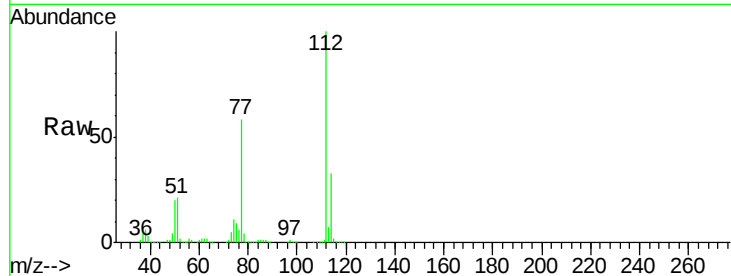




#65
Chlorobenzene
Concen: 295.30 ug/l
RT: 9.12 min Scan# 2654
Delta R.T. -0.00 min
Lab File: VU024853.D
Acq: 22 Jun 2018 23:52

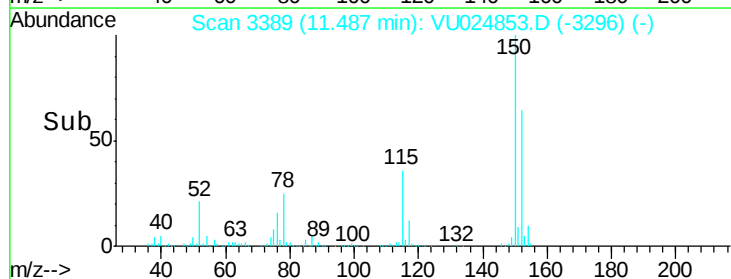
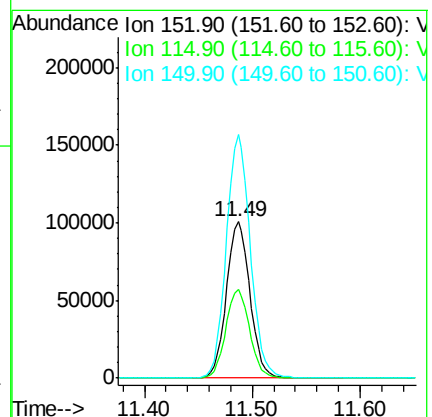
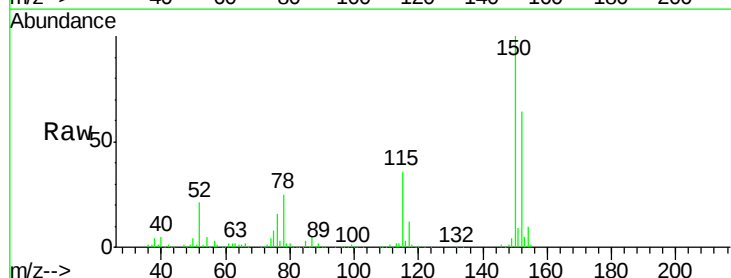
Instrument :
MSVOA_U
ClientSampleId :
DUP-0449-180618

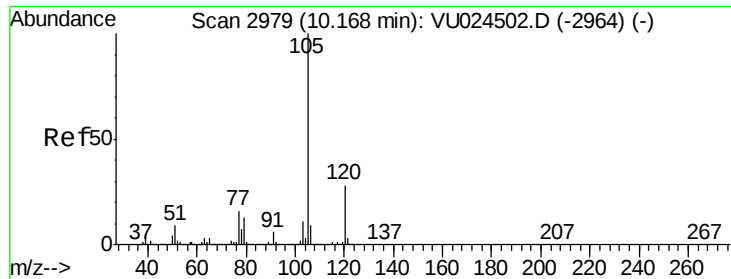
Tot Ion:112 Resp: 2088987
Ion Ratio Lower Upper
112 100
114 32.7 25.6 38.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 11.49 min Scan# 3389
Delta R.T. -0.00 min
Lab File: VU024853.D
Acq: 22 Jun 2018 23:52

Tgt Ion:152 Resp: 152965
Ion Ratio Lower Upper
152 100
115 57.4 43.0 129.0
150 158.2 0.0 354.0





#73

Isopropylbenzene

Concen: 0.45 ug/l

RT: 10.17 min Scan# 2980

Delta R.T. 0.00 min

Lab File: VU024853.D

Acq: 22 Jun 2018 23:52

Instrument :

MSVOA_U

ClientSampleId :

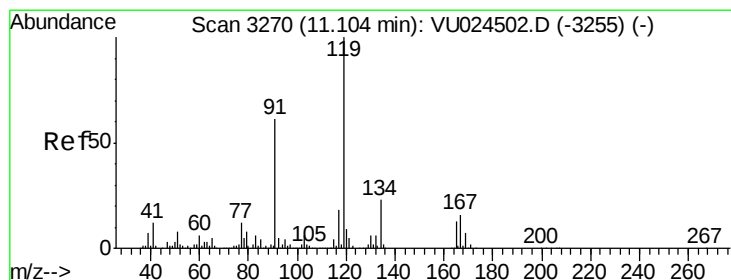
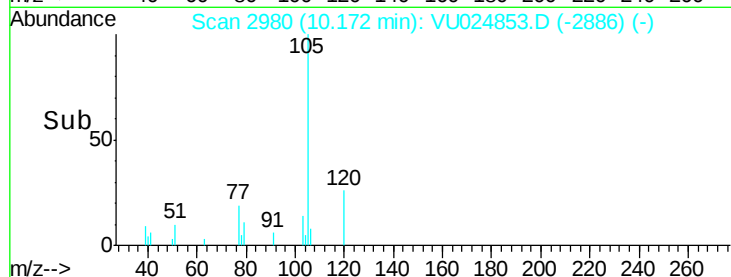
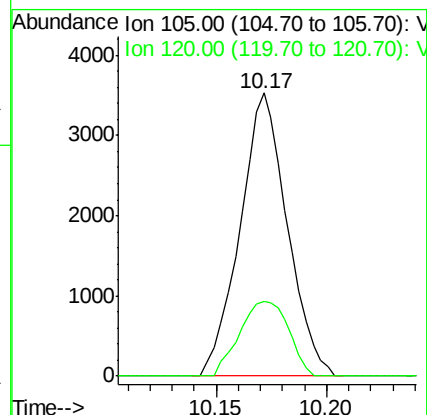
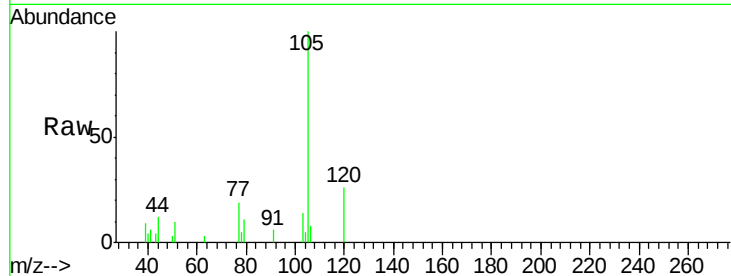
DUP-0449-180618

Tot Ion:105 Resp: 5246

Ion Ratio Lower Upper

105 100

120 27.4 13.2 39.6



#83

tert-Butylbenzene

Concen: 2.41 ug/l

RT: 11.10 min Scan# 3270

Delta R.T. -0.00 min

Lab File: VU024853.D

Acq: 22 Jun 2018 23:52

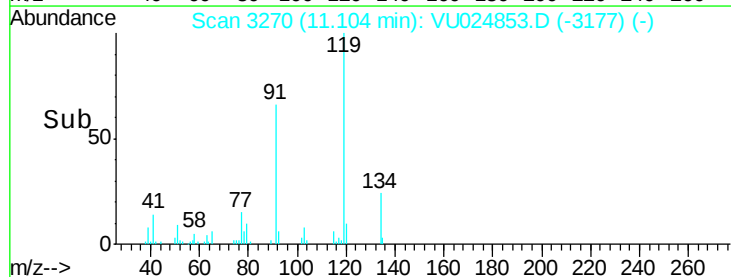
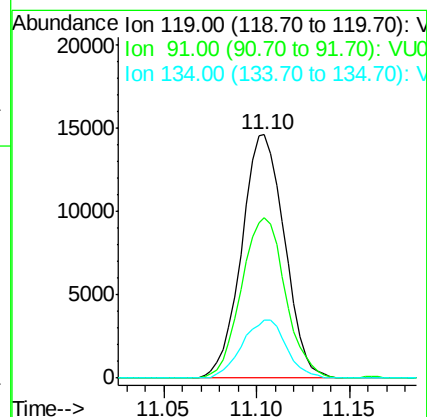
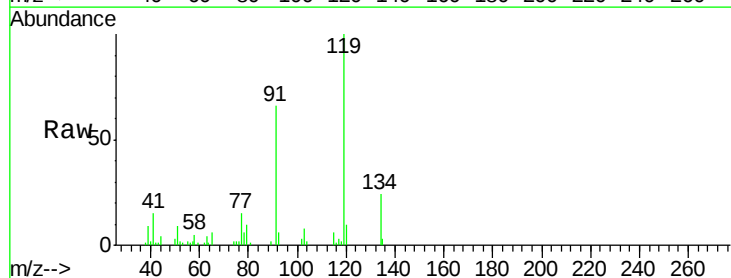
Tgt Ion:119 Resp: 23595

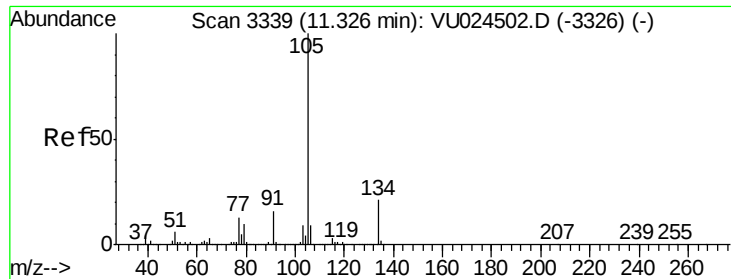
Ion Ratio Lower Upper

119 100

91 67.5 29.7 89.1

134 24.6 11.6 34.7





#85

sec-Butylbenzene

Concen: 1.36 ug/l

RT: 11.33 min Scan# 3340

Delta R.T. 0.00 min

Lab File: VU024853.D

Acq: 22 Jun 2018 23:52

Instrument :

MSVOA_U

ClientSampleId :

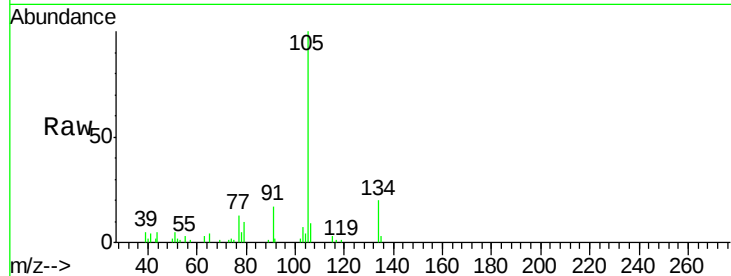
DUP-0449-180618

Tot Ion:105 Resp: 16636

Ion Ratio Lower Upper

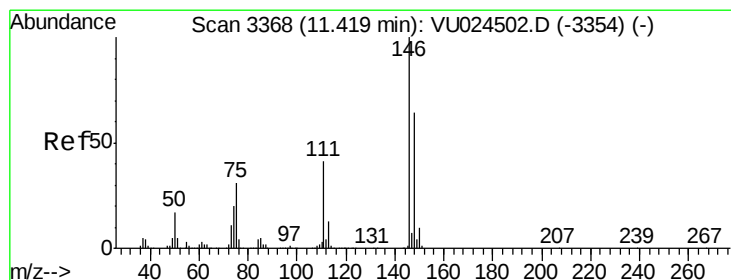
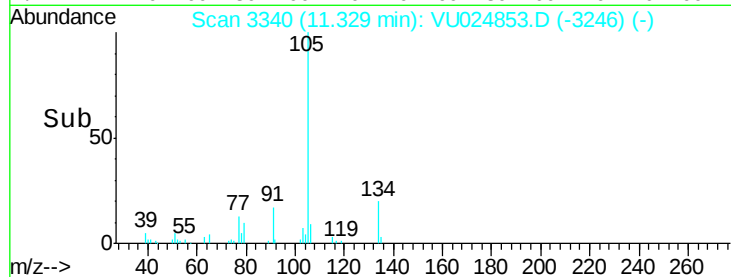
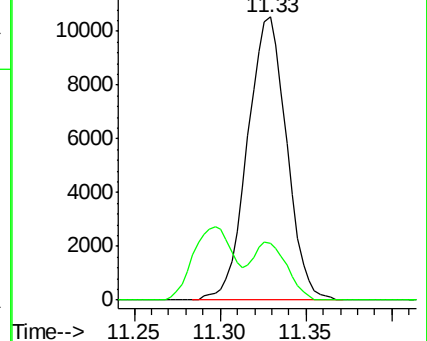
105 100

134 18.5 9.7 29.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#87

1,3-Dichlorobenzene

Concen: 1.72 ug/l

RT: 11.42 min Scan# 3369

Delta R.T. 0.00 min

Lab File: VU024853.D

Acq: 22 Jun 2018 23:52

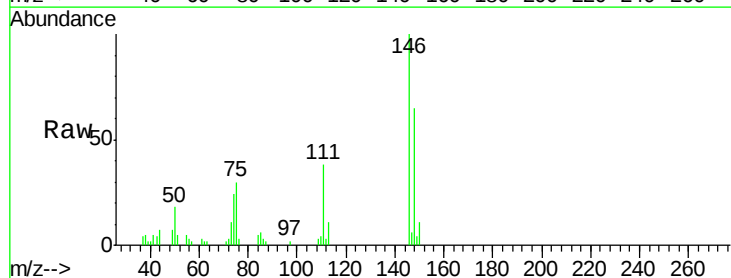
Tgt Ion:146 Resp: 9440

Ion Ratio Lower Upper

146 100

111 38.3 20.0 60.0

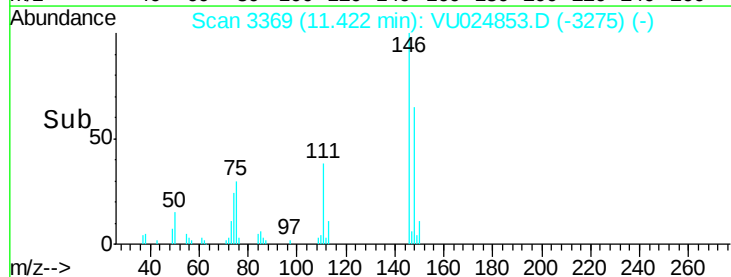
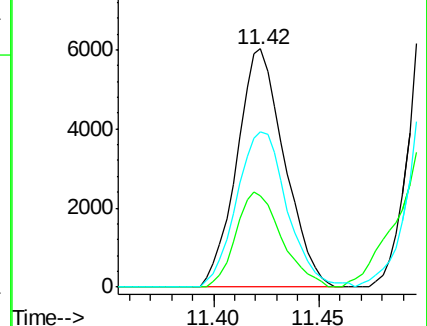
148 69.4 32.1 96.5

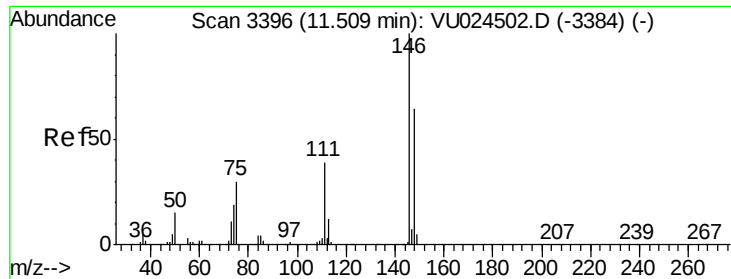


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

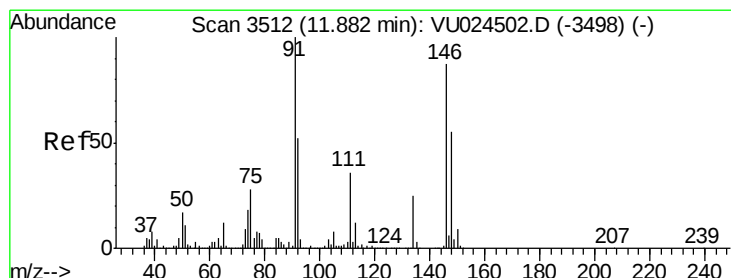
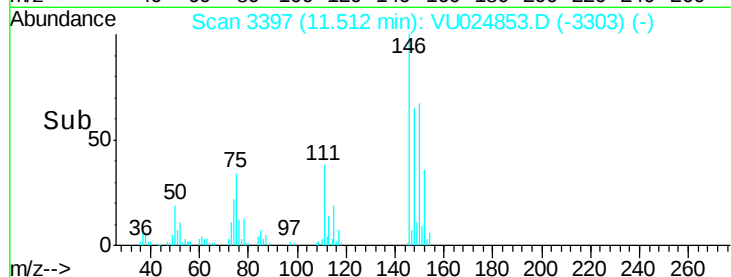
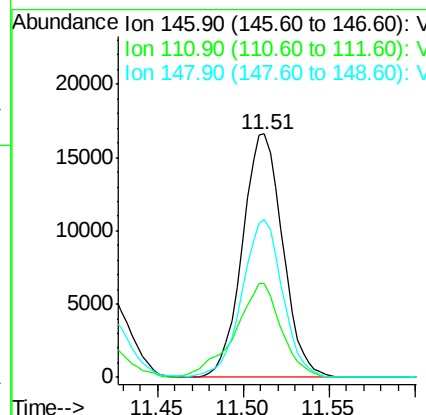
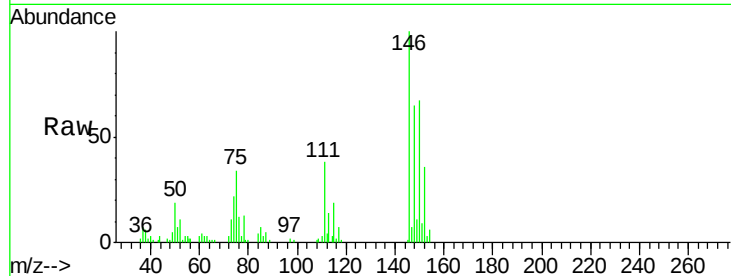




#88
 1,4-Dichlorobenzene
 Concen: 4.90 ug/l
 RT: 11.51 min Scan# 3397
 Delta R.T. 0.00 min
 Lab File: VU024853.D
 Acq: 22 Jun 2018 23:52

Instrument :
 MSVOA_U
 ClientSampleId :
 DUP-0449-180618

Tot Ion:146 Resp: 27080
 Ion Ratio Lower Upper
 146 100
 111 44.2 19.5 58.5
 148 65.1 32.4 97.0



#91
 1,2-Dichlorobenzene
 Concen: 11.08 ug/l
 RT: 11.88 min Scan# 3512
 Delta R.T. -0.00 min
 Lab File: VU024853.D
 Acq: 22 Jun 2018 23:52

Tgt Ion:146 Resp: 60952
 Ion Ratio Lower Upper
 146 100
 111 41.2 20.5 61.6
 148 66.9 31.9 95.7

