

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 :

Quant Time: Jun 23 02:18:00 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						
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
3) Chloromethane	1.33	50	1076	0.44	ug/l	100
4) Vinyl Chloride	1.40	62	459819	181.56	ug/l	97
5) Bromomethane	1.63	94	454	0.37	ug/l #	79
11) Tert butyl alcohol	2.84	59	13287	17.43	ug/l	95
12) 1,1-Dichloroethene	2.29	96	1942	0.89	ug/l	89
13) Acrolein	2.19	56	242	0.60	ug/l #	74
16) Acetone	2.32	43	3855	2.29	ug/l #	88
20) Methylene Chloride	2.70	84	2145	0.81	ug/l #	92
21) trans-1,2-Dichloroethene	2.99	96	1171	0.49	ug/l #	71
24) 1,1-Dichloroethane	3.45	63	11407	2.46	ug/l	98
25) 2-Butanone	4.29	43	669	0.30	ug/l #	51
27) cis-1,2-Dichloroethene	4.23	96	162603	58.73	ug/l	89
29) Tetrahydrofuran	4.65	42	670	0.48	ug/l #	85
30) Chloroform	4.69	83	1657	0.35	ug/l #	78
31) Cyclohexane	4.99	56	4417	Below Cal	#	1
36) 1,1-Dichloropropene	4.99	75	14549	4.21	ug/l #	50
38) Carbon Tetrachloride	4.99	117	18872	4.97	ug/l #	16
39) Methylcyclohexane	6.42	83	1143	0.27	ug/l #	92
40) Benzene	5.39	78	183529	18.65	ug/l	99
42) 1,2-Dichloroethane	5.39	62	2510	0.67	ug/l #	77
44) Trichloroethene	6.19	130	3293	1.18	ug/l	97
49) 1,4-Dioxane	6.63	88	1850	29.86	ug/l #	87
52) Toluene	7.64	92	5746	0.91	ug/l	92
59) 2-Hexanone	8.17	43	7732	2.32	ug/l	73
65) Chlorobenzene	9.12	112	2088987	295.30	ug/l	99
73) Isopropylbenzene	10.17	105	5246	0.45	ug/l	98
76) 1,2,3-Trichloropropane	10.31	75	83422	24.77	ug/l #	35
80) 1,3,5-Trimethylbenzene	10.98	105	2141	0.21	ug/l	74
81) trans-1,4-Dichloro-2-buten	10.31	75	83422	57.33	ug/l #	100
83) tert-Butylbenzene	11.10	119	23595	2.41	ug/l	91
84) 1,2,4-Trimethylbenzene	10.98	105	2141	0.21	ug/l	77
85) sec-Butylbenzene	11.33	105	16636	1.36	ug/l	98
86) p-Isopropyltoluene	11.69	119	26240	2.39	ug/l	99
87) 1,3-Dichlorobenzene	11.42	146	9440	1.72	ug/l	95

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QLast Update : Wed Jun 13 13:55:26 2018
Response via : Initial Calibration

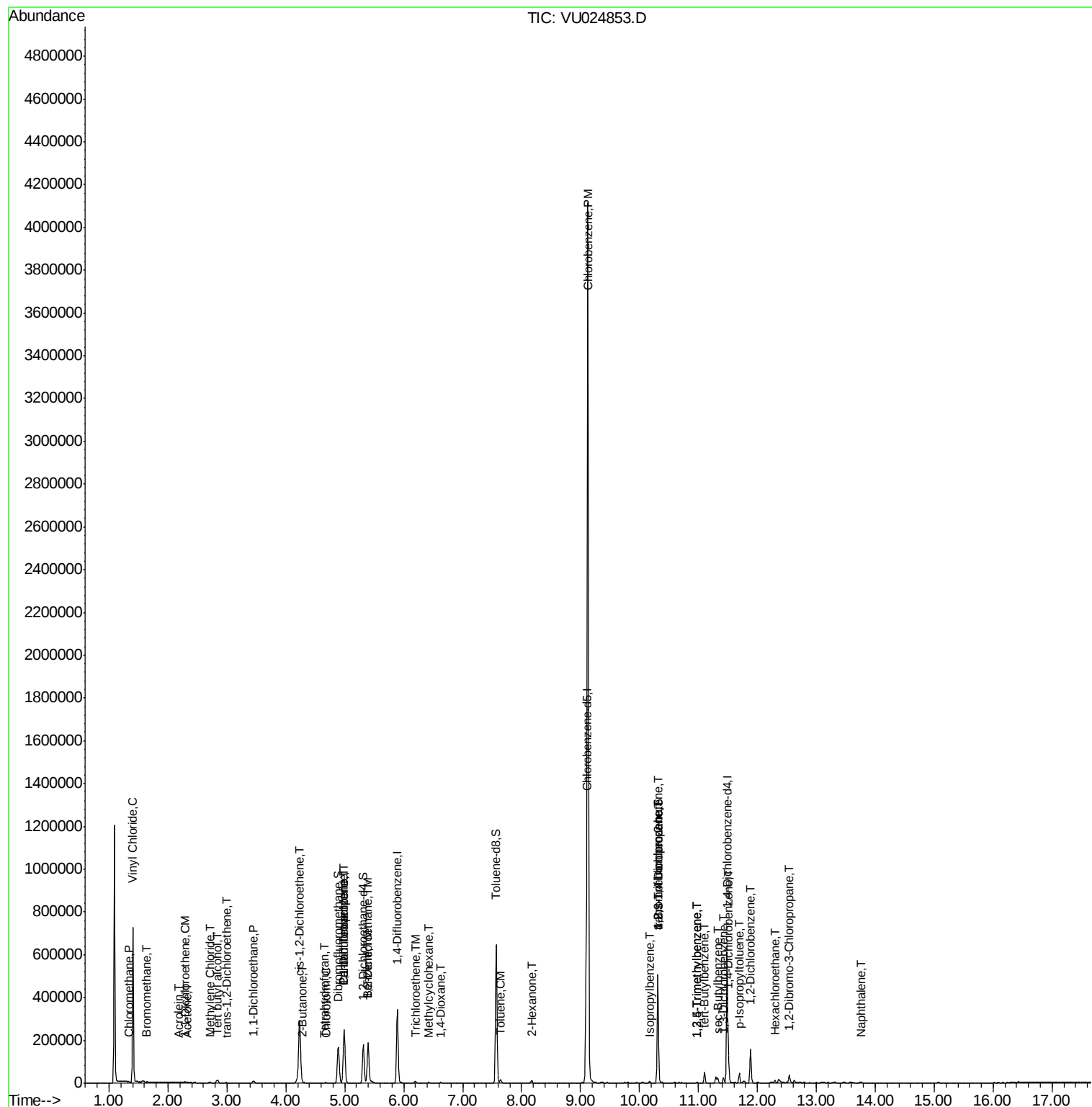
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
88) 1,4-Dichlorobenzene	11.51	146	27080	4.90	ug/l	97
90) Hexachloroethane	12.29	117	537	0.25	ug/l #	8
91) 1,2-Dichlorobenzene	11.88	146	60952	11.08	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	12.54	75	260	0.24	ug/l #	3
95) Naphthalene	13.75	128	4657	1.09	ug/l #	88

(#) = 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

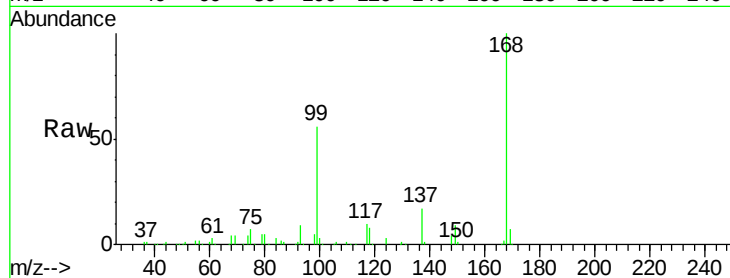
Instrument :
MSVOA_U
ClientSampled :

Tot Ion:168 Resp: 192040

Ion Ratio Lower Upper

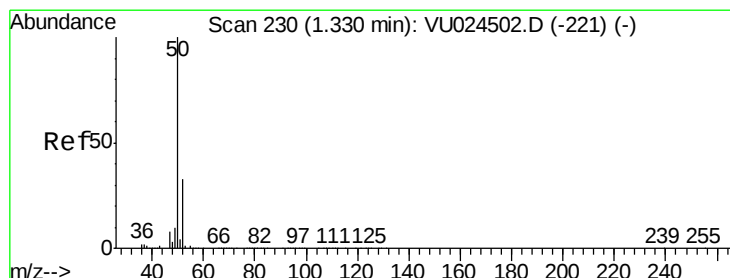
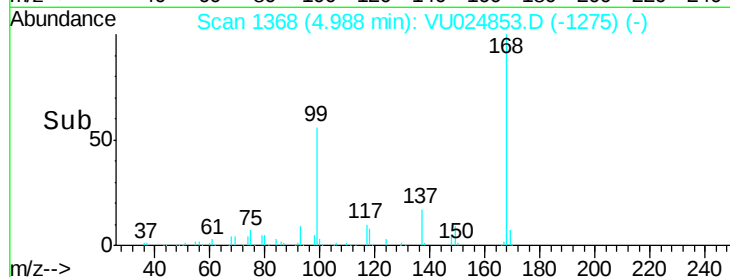
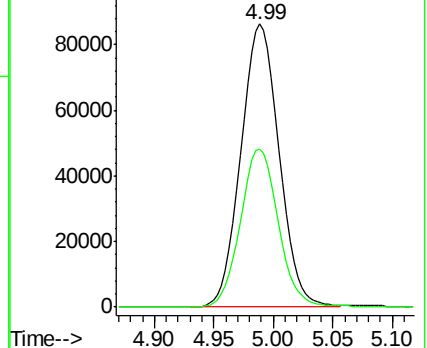
168 100

99 55.9 43.2 64.8



Abundance Ion 167.90 (167.60 to 168.60): VU024502.D (-1351) (-)

Ion 98.90 (98.60 to 99.60): VU024502.D (-1351) (-)



#3

Chloromethane

Concen: 0.44 ug/l

RT: 1.33 min Scan# 230

Delta R.T. -0.00 min

Lab File: VU024853.D

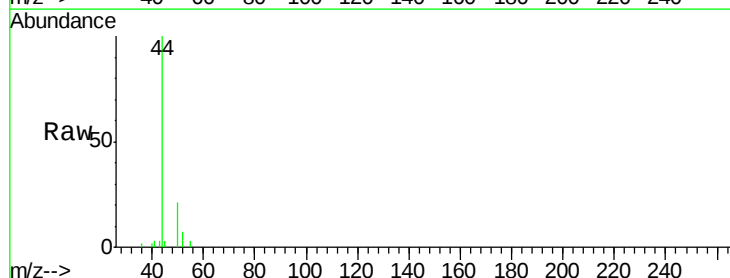
Acq: 22 Jun 2018 23:52

Tgt Ion: 50 Resp: 1076

Ion Ratio Lower Upper

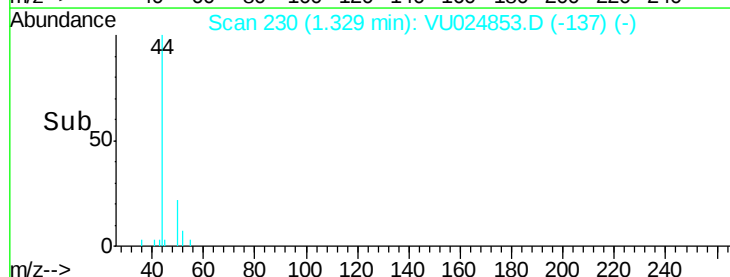
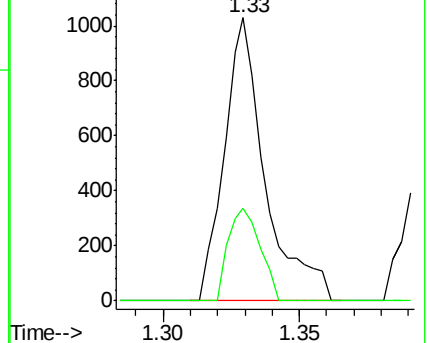
50 100

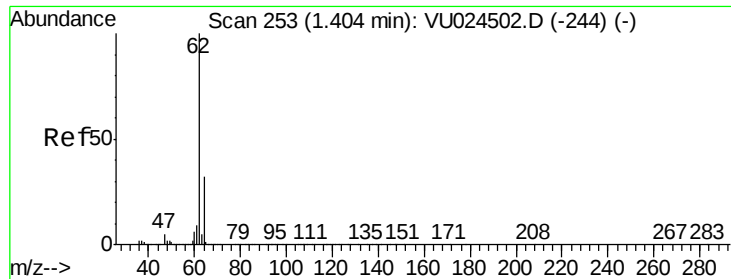
52 32.9 26.4 39.6



Abundance Ion 49.90 (49.60 to 50.60): VU024502.D (-221) (-)

Ion 51.90 (51.60 to 52.60): VU024502.D (-221) (-)





#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

Instrument :

MSVOA_U

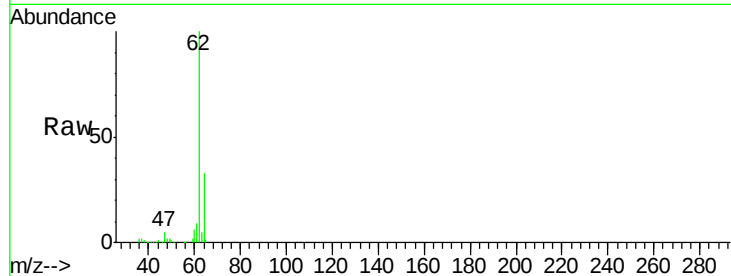
ClientSampleId :

Tot 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): VU024853.D (-160) (-)

Ion 63.90 (63.60 to 64.60): VU024853.D (-160) (-)

1.40

400000

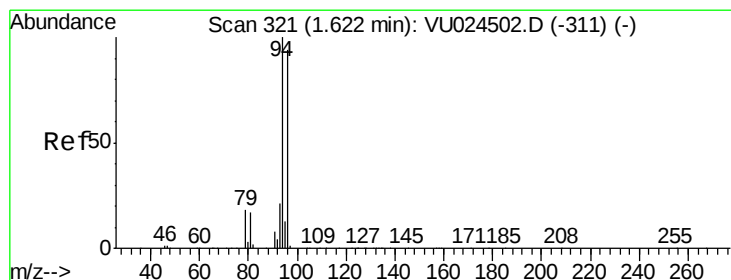
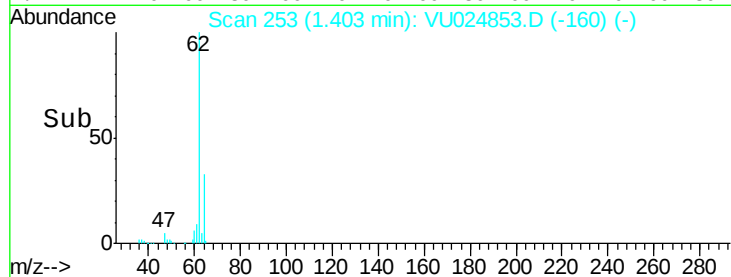
300000

200000

100000

0

Time-->



#5

Bromomethane

Concen: 0.37 ug/l

RT: 1.63 min Scan# 325

Delta R.T. 0.01 min

Lab File: VU024853.D

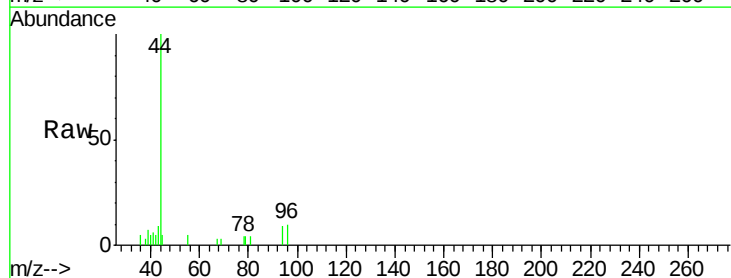
Acq: 22 Jun 2018 23:52

Tgt Ion: 94 Resp: 454

Ion Ratio Lower Upper

94 100

96 113.2 74.5 111.7#



Abundance Ion 93.90 (93.60 to 94.60): VU024853.D (-228) (-)

Ion 95.90 (95.60 to 96.60): VU024853.D (-228) (-)

1.63

400

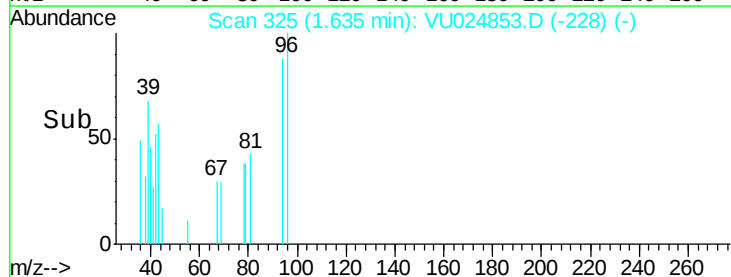
300

200

100

0

Time-->

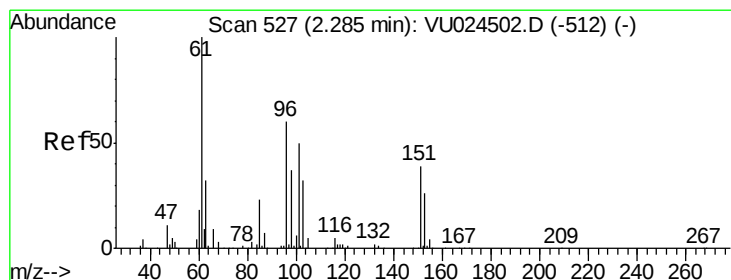
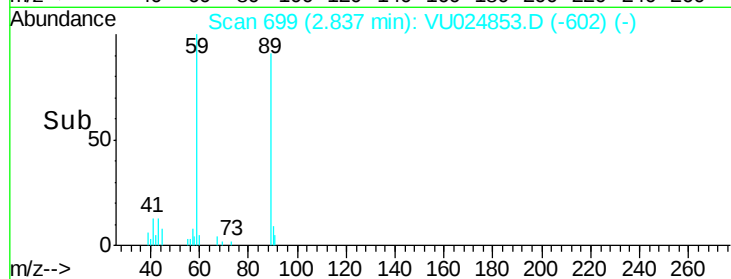
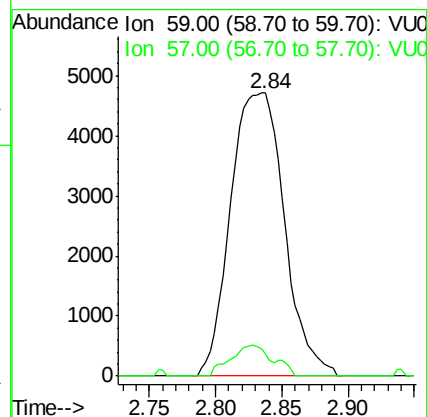
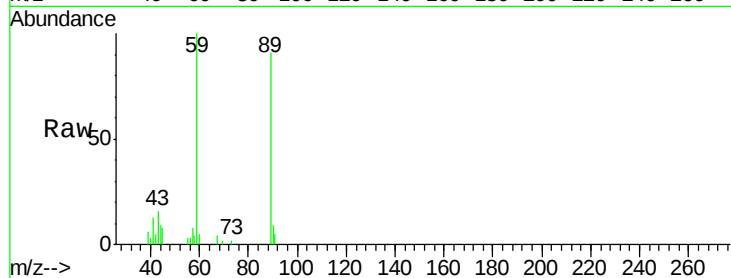




#11
Tert butyl alcohol
Concen: 17.43 ug/l
RT: 2.84 min Scan# 699
Delta R.T. 0.01 min
Lab File: VU024853.D
Acq: 22 Jun 2018 23:52

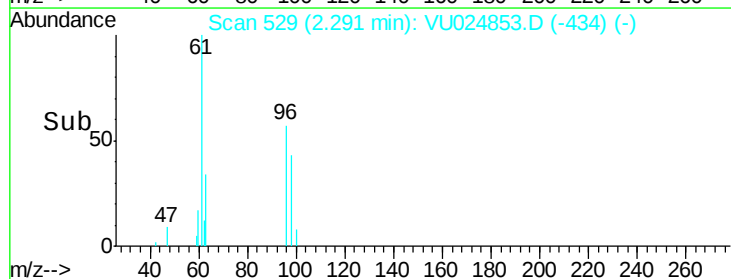
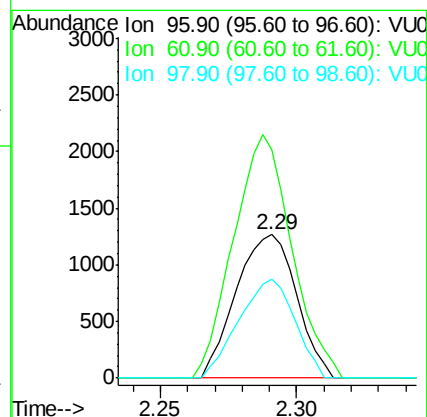
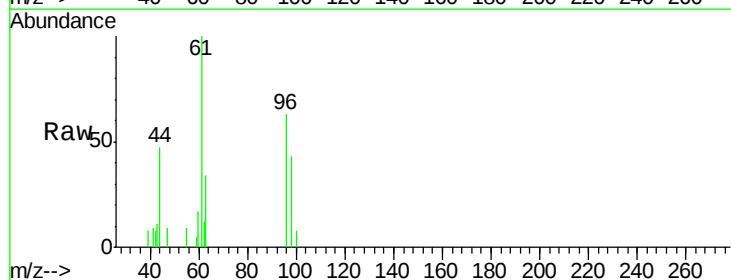
Instrument :
MSVOA_U
ClientSampleId :

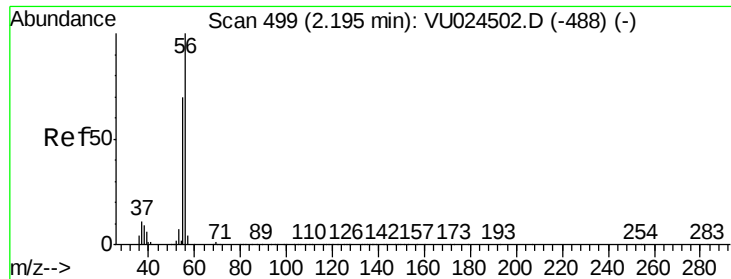
Tot Ion: 59 Resp: 13287
Ion Ratio Lower Upper
59 100
57 8.7 8.5 12.7



#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

Tgt Ion: 96 Resp: 1942
Ion Ratio Lower Upper
96 100
61 159.8 141.7 212.5
98 69.1 51.6 77.4

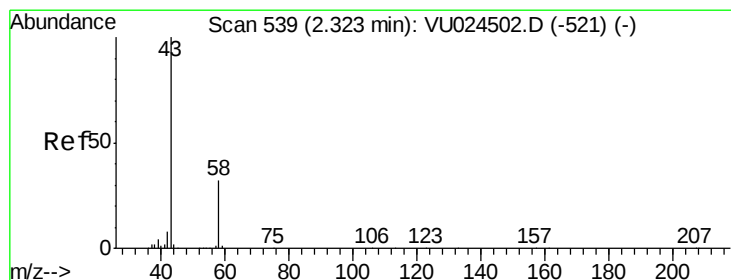
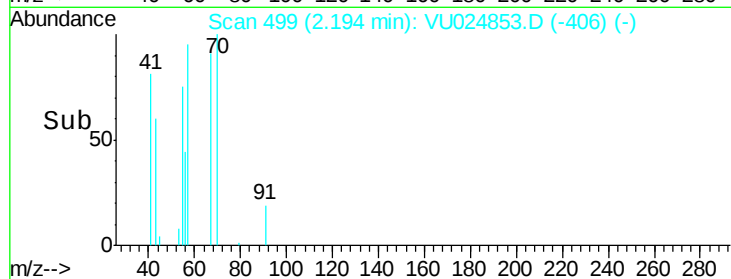
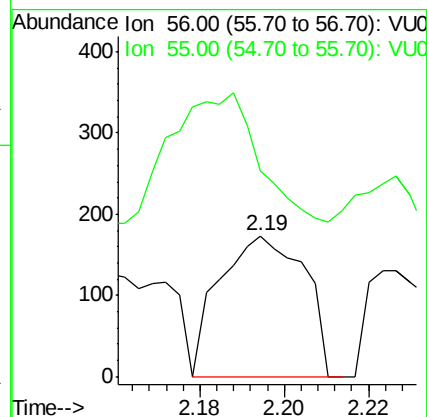
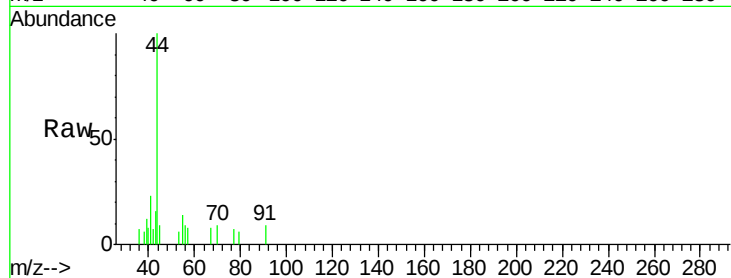




#13
Acrolein
Concen: 0.60 ug/l
RT: 2.19 min Scan# 499
Delta R.T. -0.00 min
Lab File: VU024853.D
Acq: 22 Jun 2018 23:52

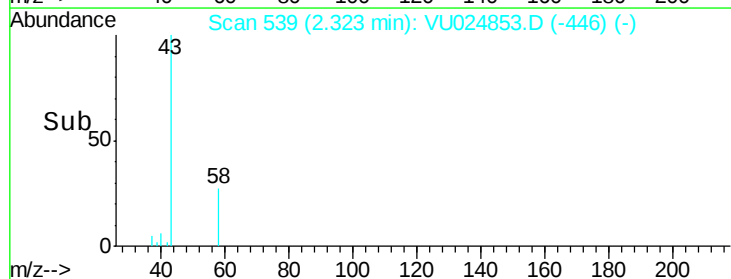
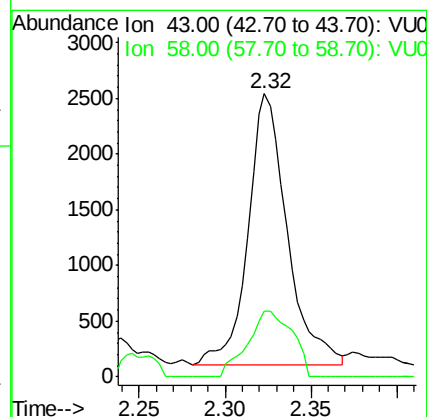
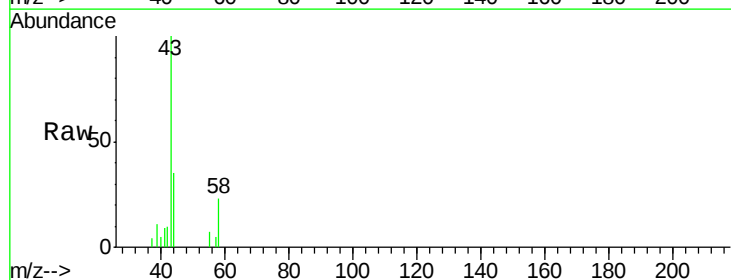
Instrument :
MSVOA_U
ClientSampleId :

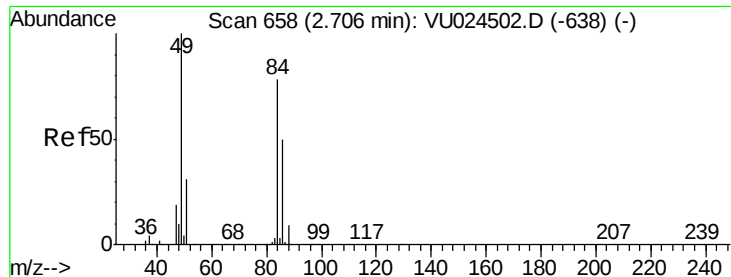
Tot Ion: 56 Resp: 242
Ion Ratio Lower Upper
56 100
55 94.6 58.4 87.6#



#16
Acetone
Concen: 2.29 ug/l
RT: 2.32 min Scan# 539
Delta R.T. -0.00 min
Lab File: VU024853.D
Acq: 22 Jun 2018 23:52

Tgt Ion: 43 Resp: 3855
Ion Ratio Lower Upper
43 100
58 24.2 24.4 36.6#





#20

Methylene Chloride

Concen: 0.81 ug/l

RT: 2.70 min Scan# 657

Delta R.T. -0.00 min

Lab File: VU024853.D

Acq: 22 Jun 2018 23:52

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 84 Resp: 2145

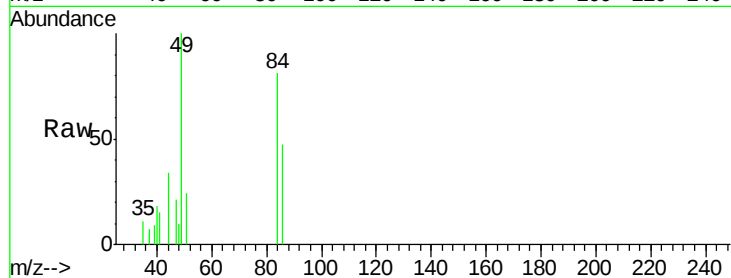
Ion Ratio Lower Upper

84 100

49 123.4 103.8 155.8

51 29.9 32.0 48.0#

86 58.5 51.6 77.4

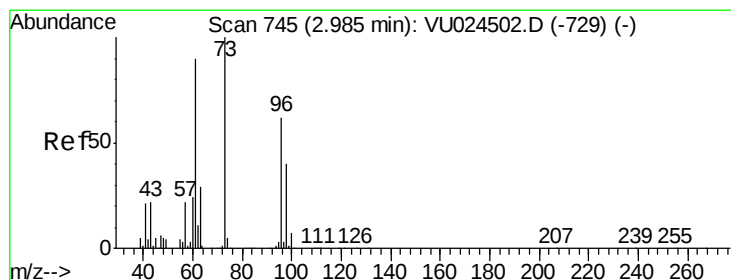
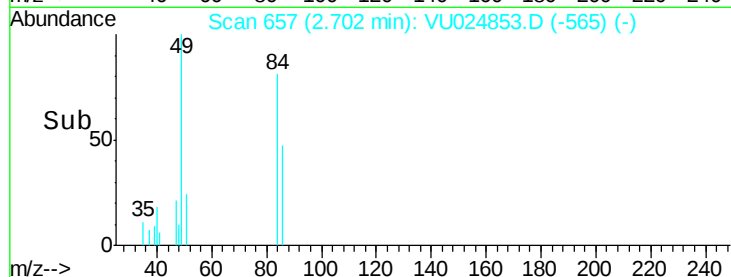
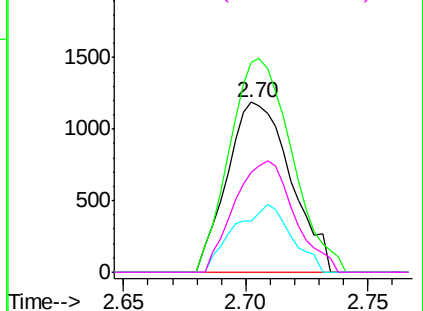


Abundance Ion 83.90 (83.60 to 84.60): VU0

Ion 48.90 (48.60 to 49.60): VU0

Ion 50.90 (50.60 to 51.60): VU0

Ion 85.90 (85.60 to 86.60): VU0



#21

trans-1,2-Dichloroethene

Concen: 0.49 ug/l

RT: 2.99 min Scan# 747

Delta R.T. 0.01 min

Lab File: VU024853.D

Acq: 22 Jun 2018 23:52

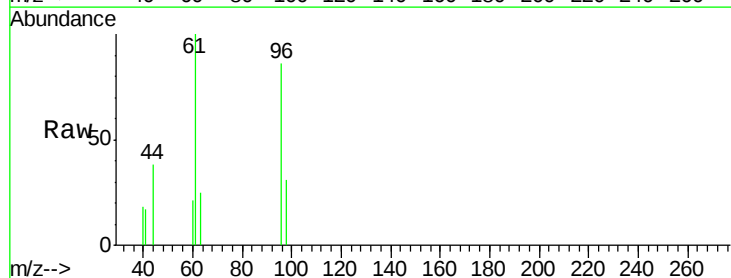
Tgt Ion: 96 Resp: 1171

Ion Ratio Lower Upper

96 100

61 116.6 119.4 179.0#

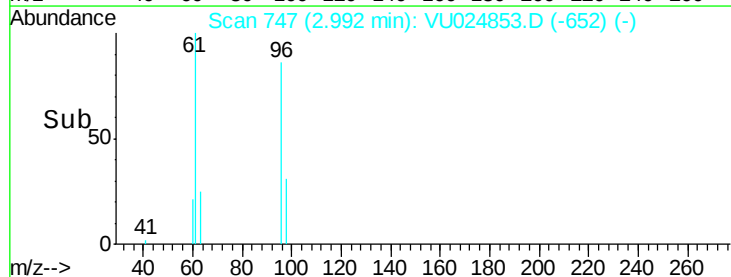
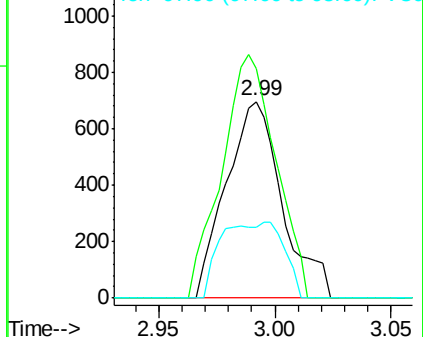
98 35.9 51.1 76.7#

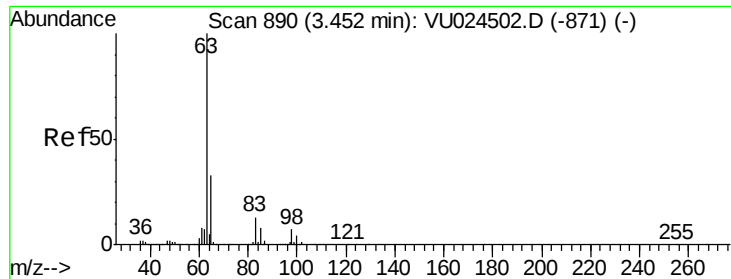


Abundance Ion 95.90 (95.60 to 96.60): VU0

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

Instrument :

MSVOA_U

ClientSampleId :

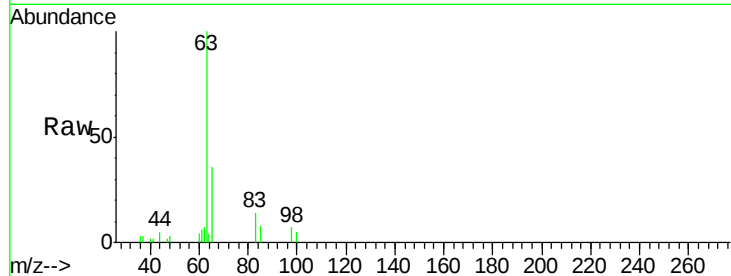
Tot Ion: 63 Resp: 11407

Ion Ratio Lower Upper

63 100

98 6.5 3.5 10.4

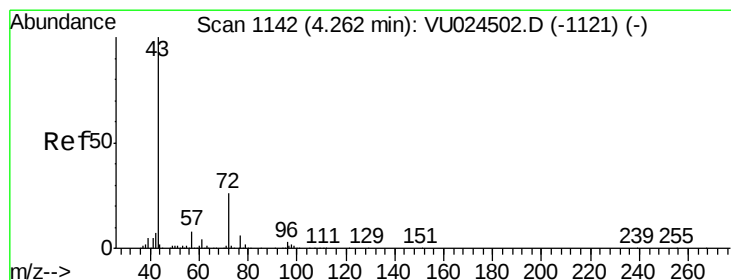
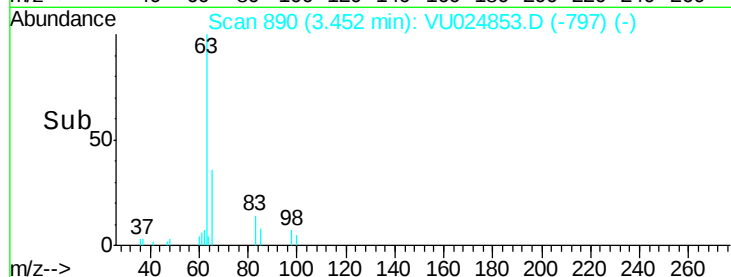
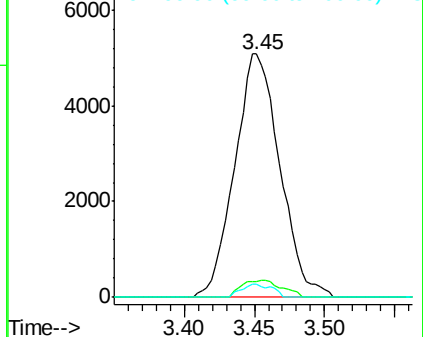
100 5.4 1.8 5.5



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



#25

2-Butanone

Concen: 0.30 ug/l

RT: 4.29 min Scan# 1151

Delta R.T. 0.03 min

Lab File: VU024853.D

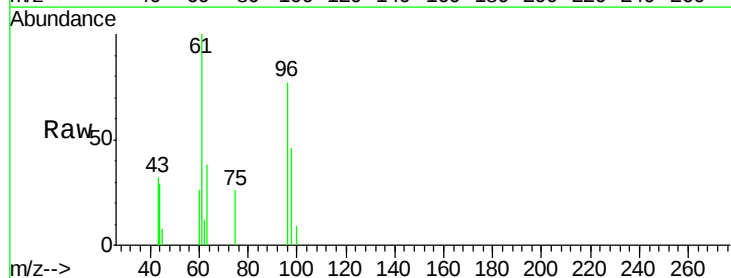
Acq: 22 Jun 2018 23:52

Tgt Ion: 43 Resp: 669

Ion Ratio Lower Upper

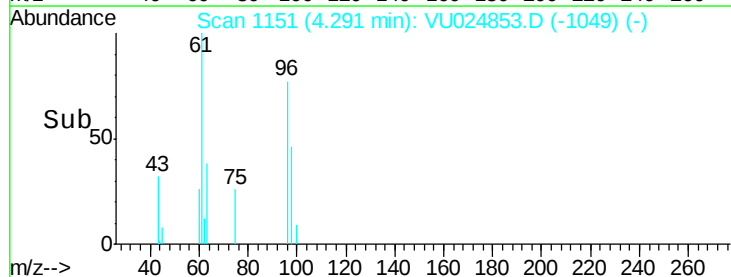
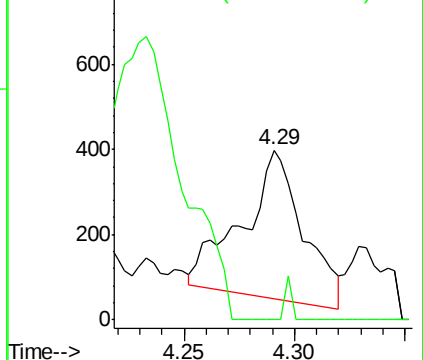
43 100

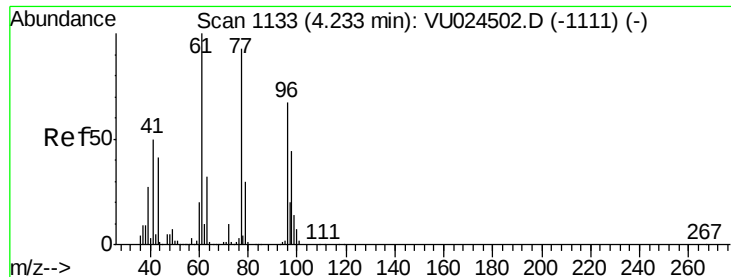
72 0.0 19.6 29.4#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 72.00 (71.70 to 72.70): VU0

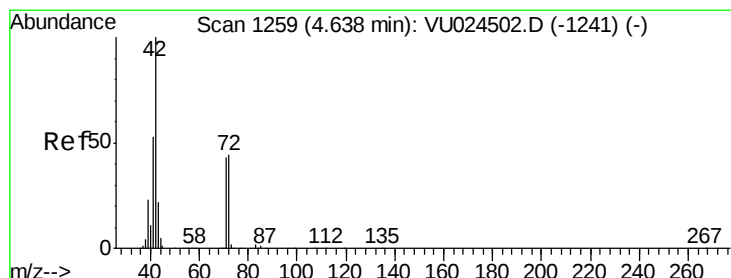
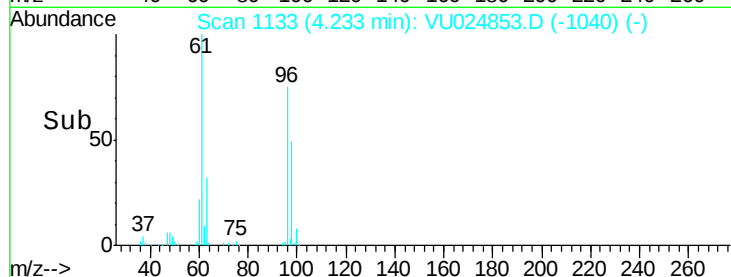
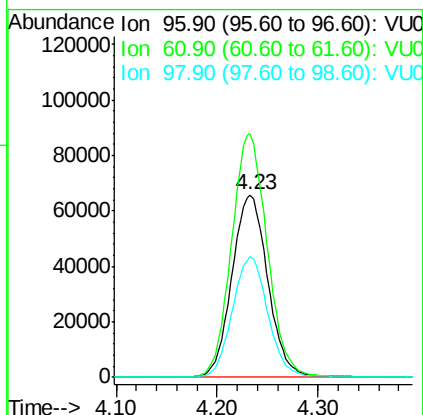
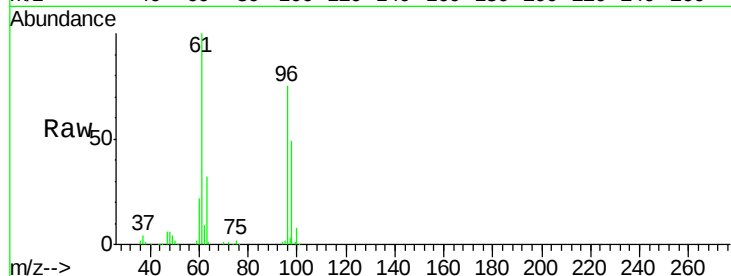




#27
 cis-1,2-Dichloroethene
 Concen: 58.73 ug/l
 RT: 4.23 min Scan# 1133
 Delta R.T. -0.00 min
 Lab File: VU024853.D
 Acq: 22 Jun 2018 23:52

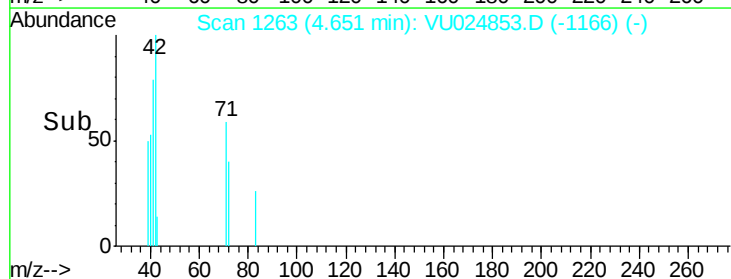
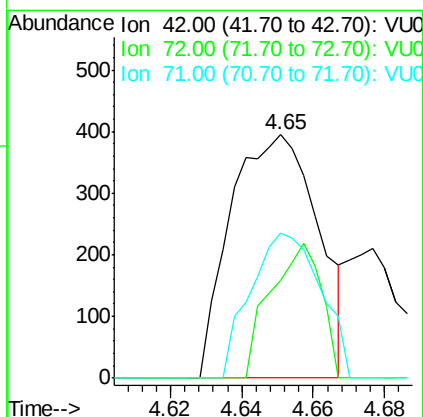
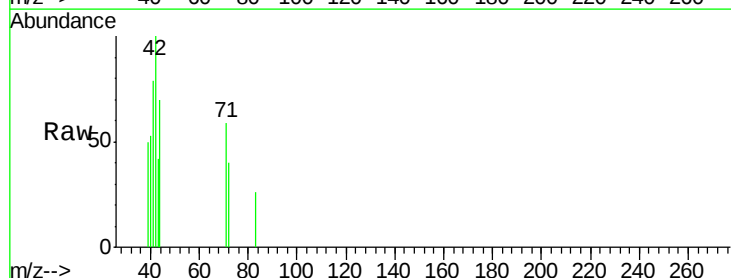
Instrument :
 MSVOA_U
 ClientSampleId :

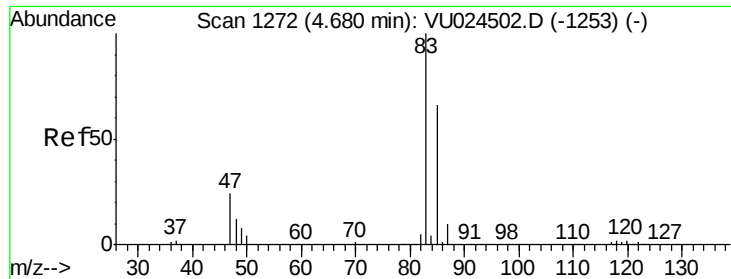
Tot Ion	Ratio	Lower	Upper
96	100		
61	133.2	0.0	306.6
98	65.5	0.0	128.8



#29
 Tetrahydrofuran
 Concen: 0.48 ug/l
 RT: 4.65 min Scan# 1263
 Delta R.T. 0.01 min
 Lab File: VU024853.D
 Acq: 22 Jun 2018 23:52

Tgt Ion	Ratio	Lower	Upper
42	100		
72	32.1	34.5	51.7#
71	47.8	32.2	48.4





#30

Chloroform

Concen: 0.35 ug/l

RT: 4.69 min Scan# 1274

Delta R.T. 0.01 min

Lab File: VU024853.D

Acq: 22 Jun 2018 23:52

Instrument :

MSVOA_U

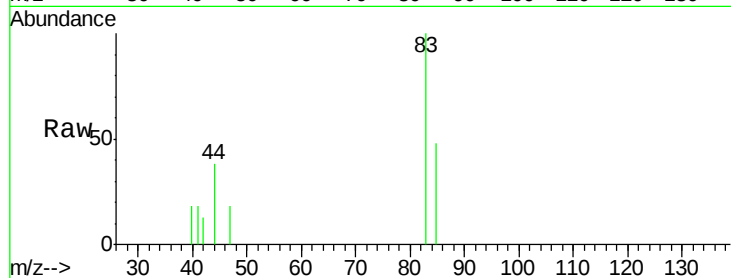
ClientSampleId :

Tot Ion: 83 Resp: 1657

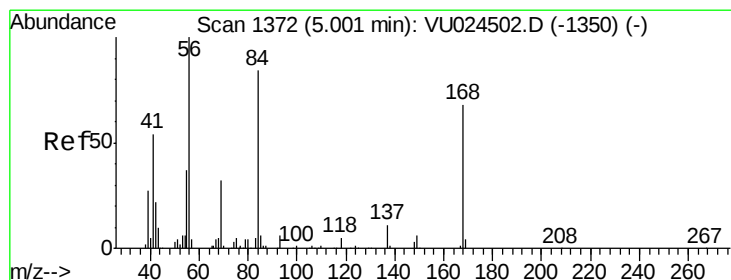
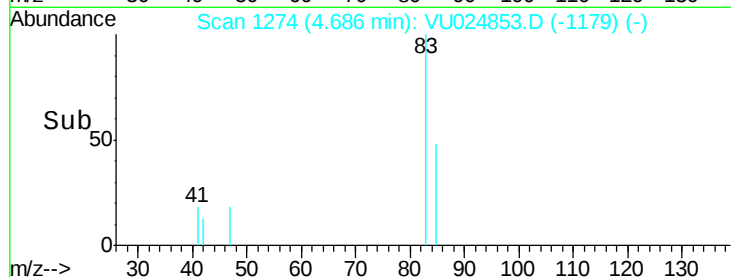
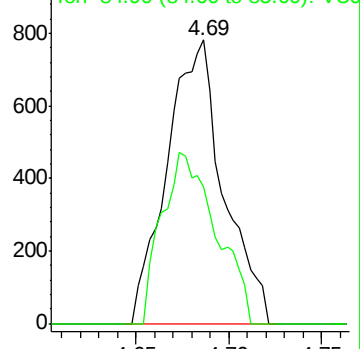
Ion Ratio Lower Upper

83 100

85 48.0 52.4 78.6#



Abundance Ion 82.90 (82.60 to 83.60): VU0



#31

Cyclohexane

Concen: Below Cal

RT: 4.99 min Scan# 1367

Delta R.T. -0.02 min

Lab File: VU024853.D

Acq: 22 Jun 2018 23:52

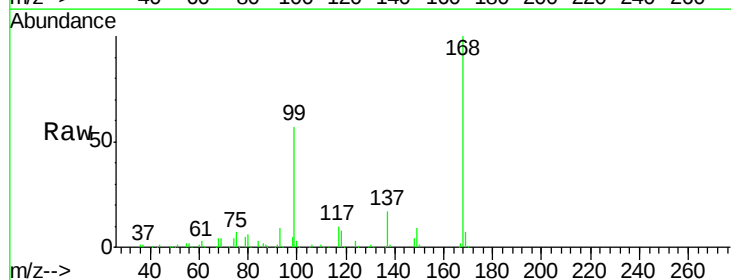
Tgt Ion: 56 Resp: 4417

Ion Ratio Lower Upper

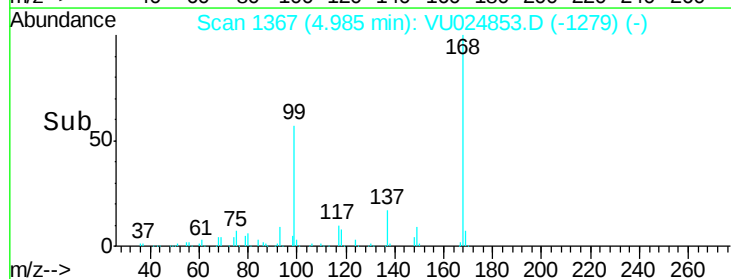
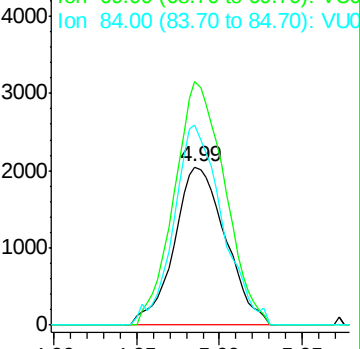
56 100

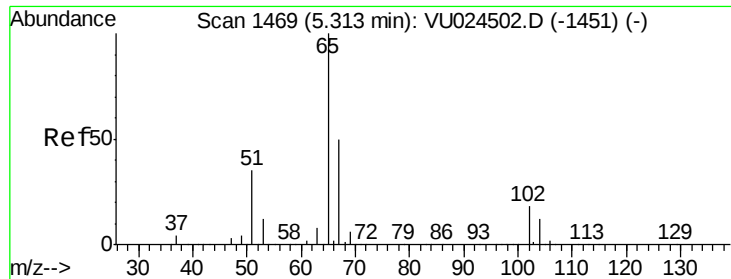
69 154.3 24.8 37.2#

84 126.7 65.2 97.8#



Abundance Ion 56.00 (55.70 to 56.70): VU0

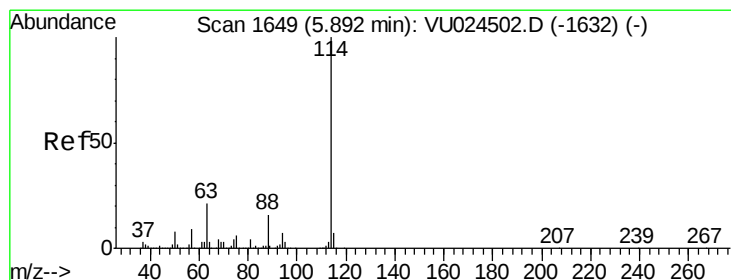
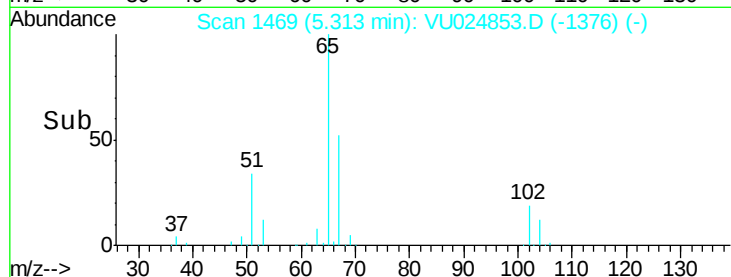
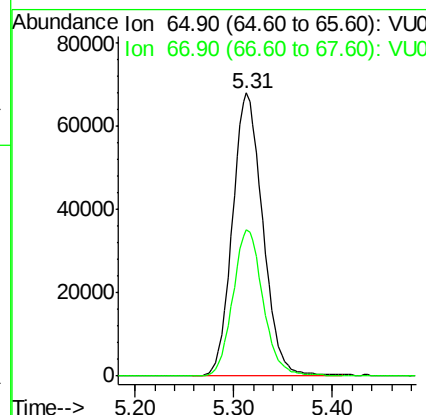
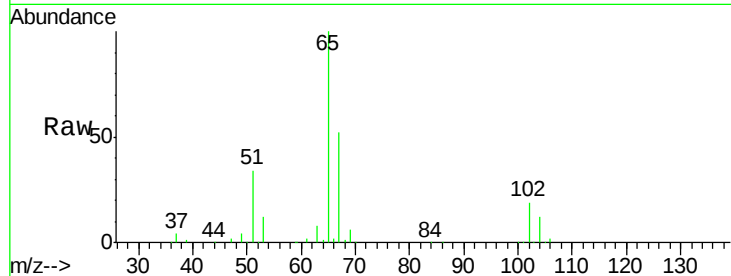




#33
 1,2-Dichloroethane-d4
 Concen: 46.56 ug/l
 RT: 5.31 min Scan# 1469
 Delta R.T. -0.00 min
 Lab File: VU024853.D
 Acq: 22 Jun 2018 23:52

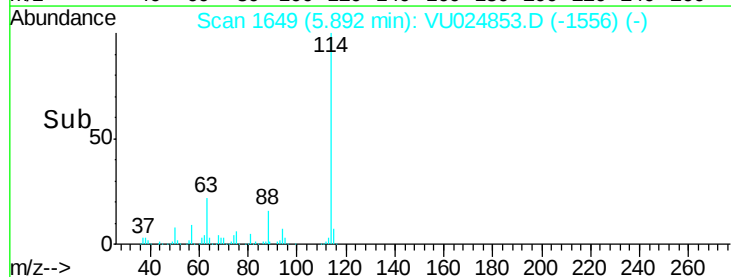
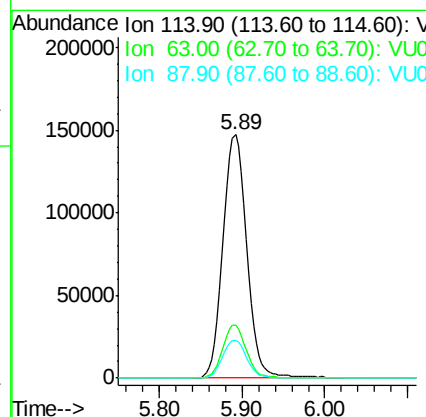
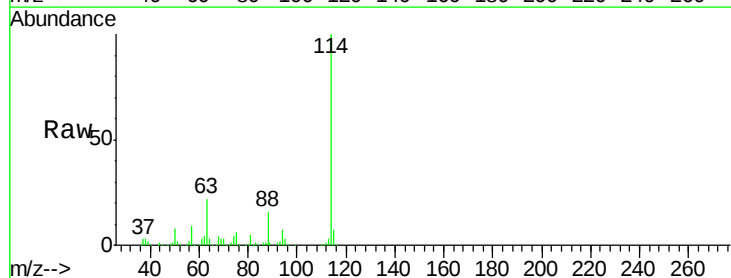
Instrument :
 MSVOA_U
 ClientSampleId :

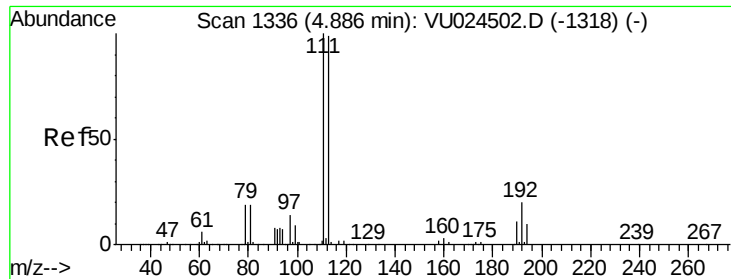
Tot Ion: 65 Resp: 145972
 Ion Ratio Lower Upper
 65 100
 67 51.2 0.0 107.0



#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

Tgt Ion: 114 Resp: 293893
 Ion Ratio Lower Upper
 114 100
 63 21.6 0.0 45.4
 88 15.7 0.0 31.0

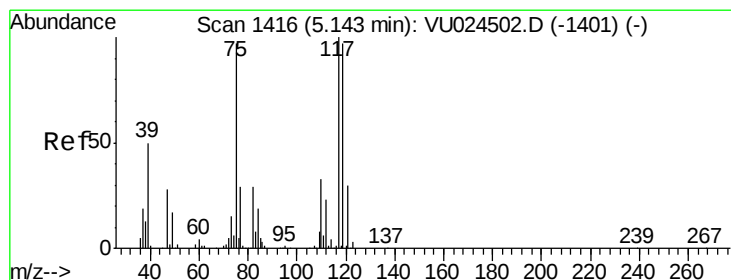
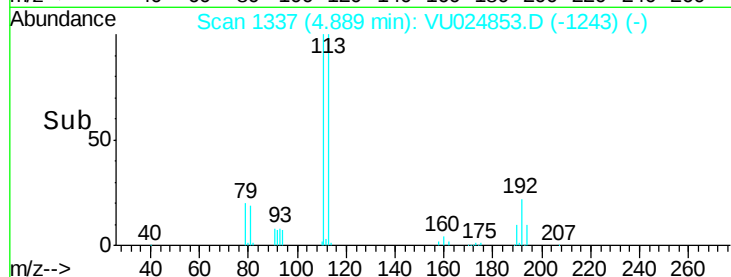
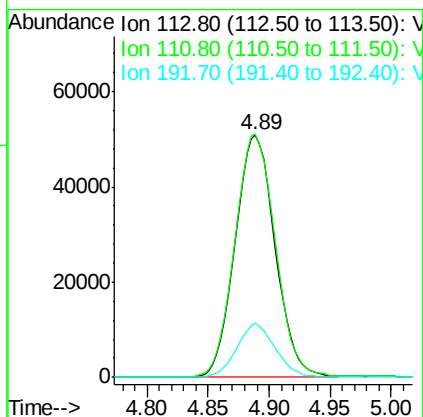
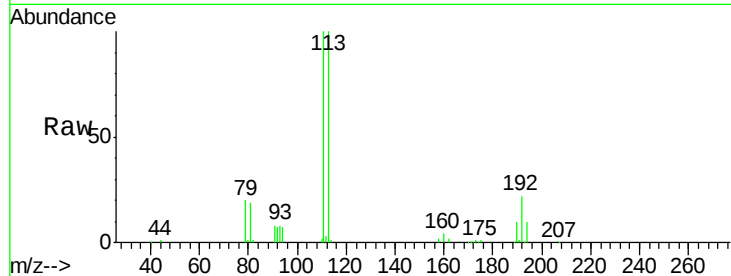




#35
 Dibromofluoromethane
 Concen: 47.37 ug/l
 RT: 4.89 min Scan# 1337
 Delta R.T. 0.00 min
 Lab File: VU024853.D
 Acq: 22 Jun 2018 23:52

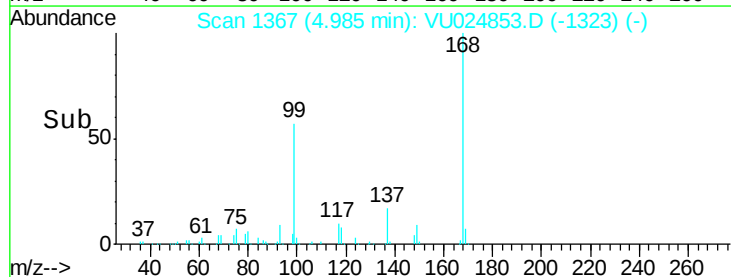
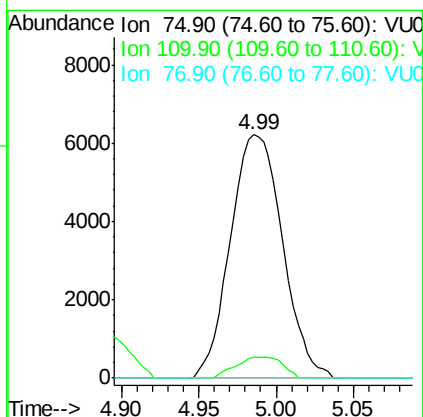
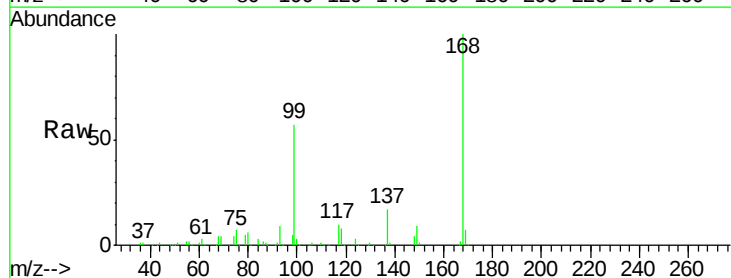
Instrument :
 MSVOA_U
 ClientSampleId :

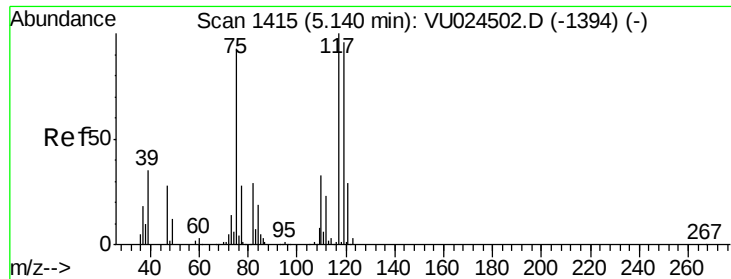
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.0	82.2	123.4
192	21.4	16.2	24.4



#36
 1,1-Dichloropropene
 Concen: 4.21 ug/l
 RT: 4.99 min Scan# 1367
 Delta R.T. -0.16 min
 Lab File: VU024853.D
 Acq: 22 Jun 2018 23:52

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.8	17.0	50.9#
77	0.0	24.2	36.4#





#38

Carbon Tetrachloride

Concen: 4.97 ug/l

RT: 4.99 min Scan# 1367

Delta R.T. -0.15 min

Lab File: VU024853.D

Acq: 22 Jun 2018 23:52

Instrument :

MSVOA_U

ClientSampled :

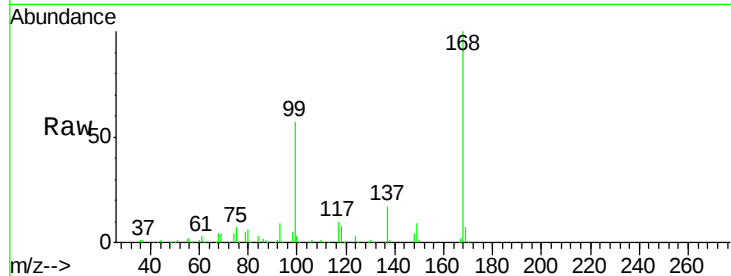
Tot Ion:117 Resp: 18872

Ion Ratio Lower Upper

117 100

119 4.4 76.1 114.1#

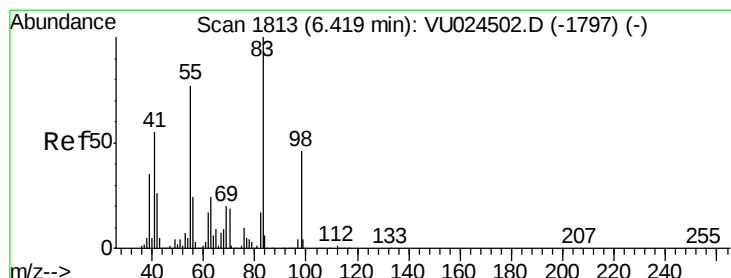
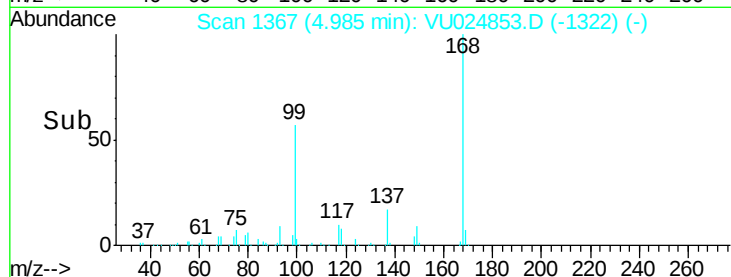
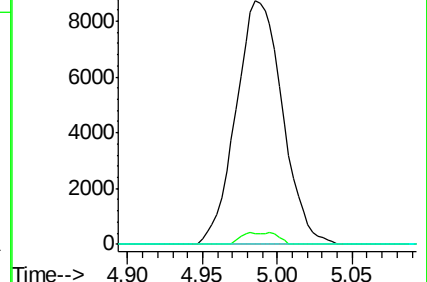
121 0.0 23.7 35.5#



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



#39

Methylcyclohexane

Concen: 0.27 ug/l

RT: 6.42 min Scan# 1813

Delta R.T. -0.00 min

Lab File: VU024853.D

Acq: 22 Jun 2018 23:52

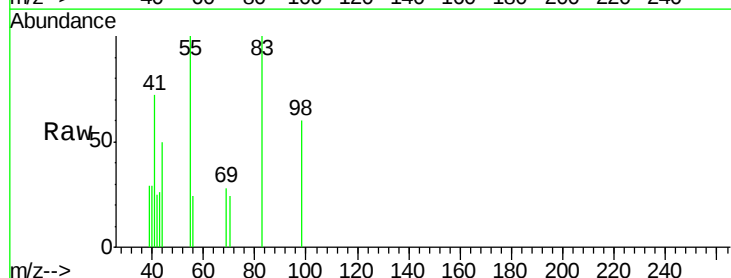
Tgt Ion: 83 Resp: 1143

Ion Ratio Lower Upper

83 100

55 82.0 65.8 98.6

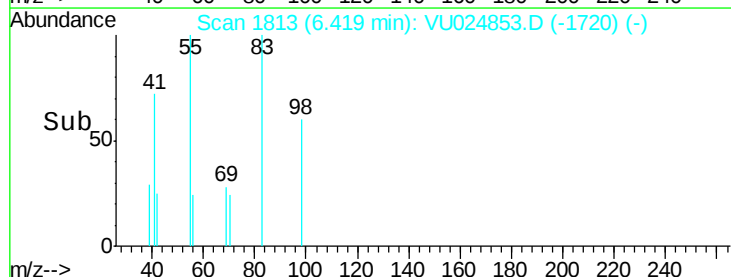
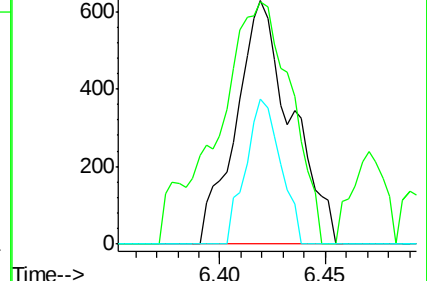
98 59.7 36.7 55.1#

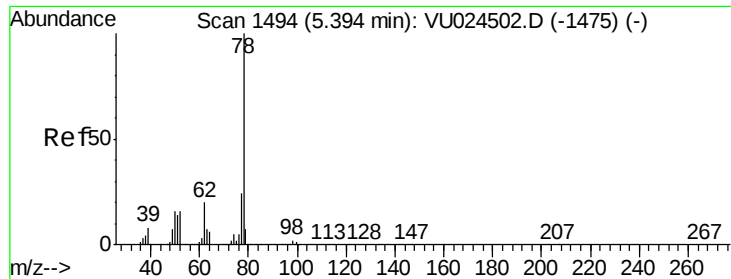


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





#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

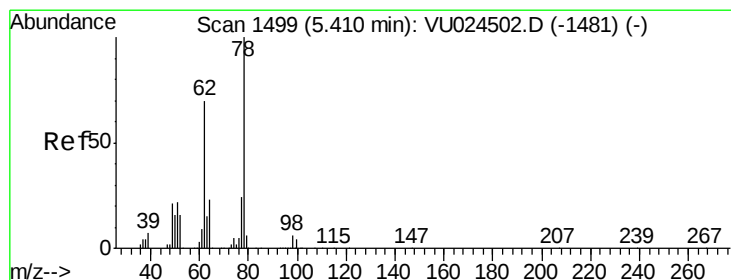
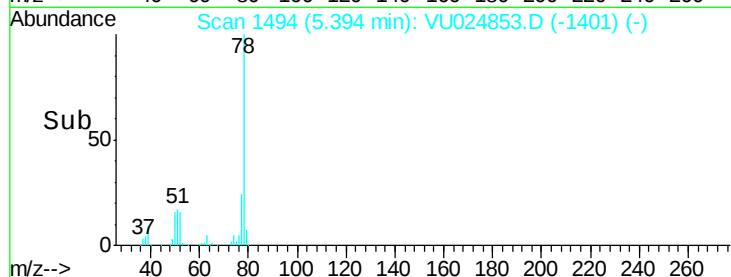
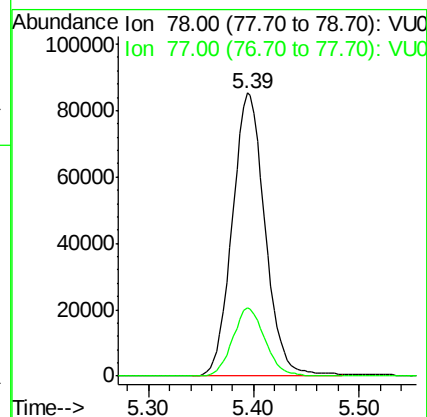
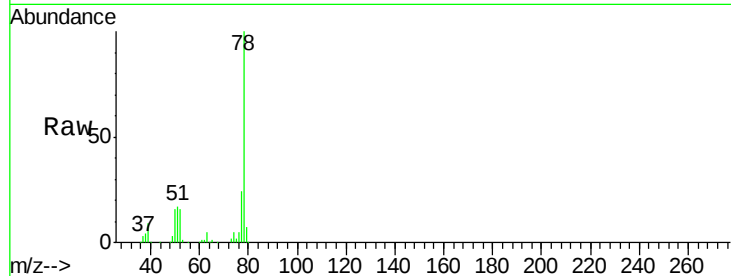
ClientSampleId :

Tot Ion: 78 Resp: 183529

Ion Ratio Lower Upper

78 100

77 24.3 19.2 28.8



#42

1,2-Dichloroethane

Concen: 0.67 ug/l

RT: 5.39 min Scan# 1494

Delta R.T. -0.02 min

Lab File: VU024853.D

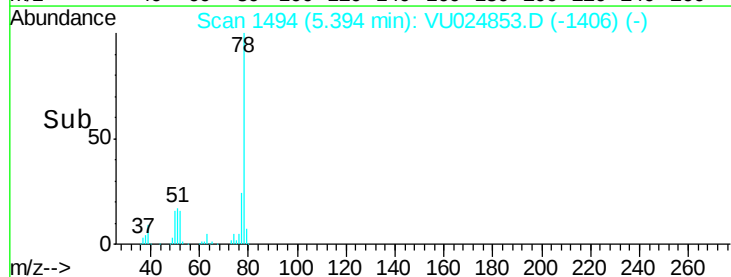
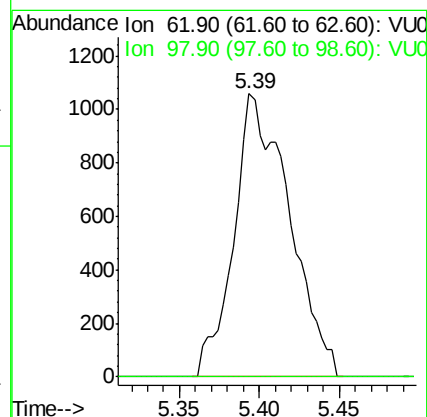
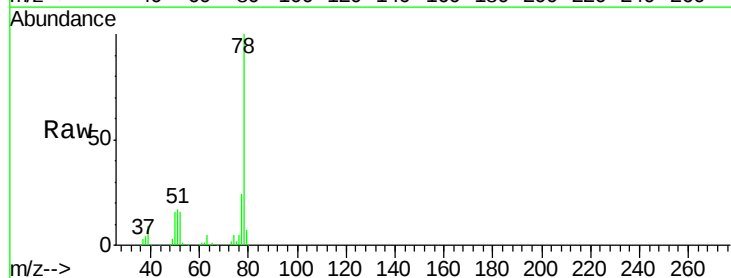
Acq: 22 Jun 2018 23:52

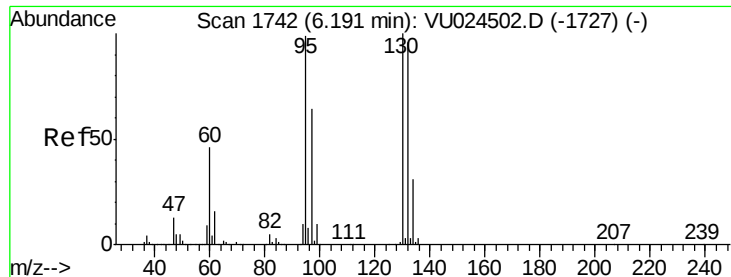
Tgt Ion: 62 Resp: 2510

Ion Ratio Lower Upper

62 100

98 0.0 0.0 16.6





#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

Instrument :

MSVOA_U

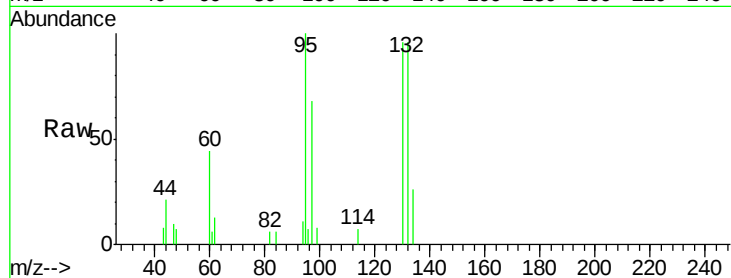
ClientSampleId :

Tot Ion:130 Resp: 3293

Ion Ratio Lower Upper

130 100

95 104.3 0.0 202.4



Abundance Ion 129.80 (129.50 to 130.50): VU024853.D (-1649) (-)

Ion 94.90 (94.60 to 95.60): VU024853.D (-1649) (-)

6.19

2000

1500

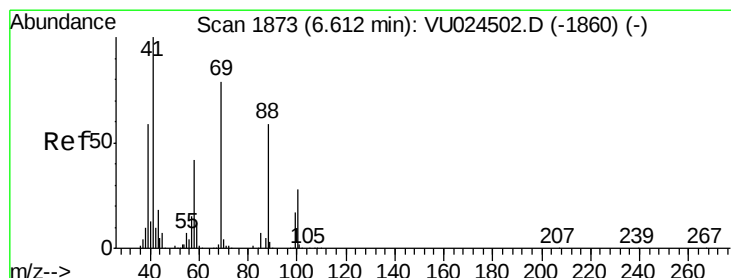
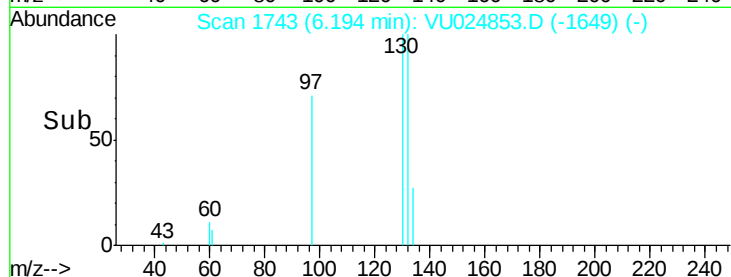
1000

500

0

6.15 6.20 6.25

Time-->



#49

1,4-Dioxane

Concen: 29.86 ug/l

RT: 6.63 min Scan# 1878

Delta R.T. 0.02 min

Lab File: VU024853.D

Acq: 22 Jun 2018 23:52

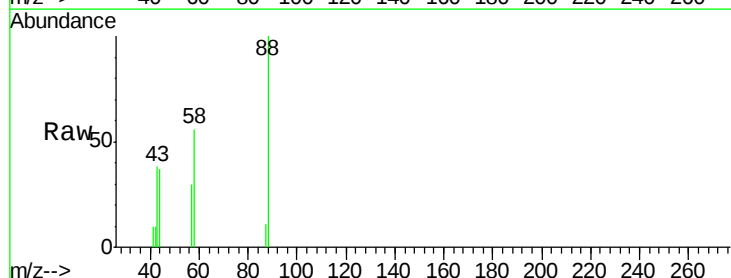
Tgt Ion: 88 Resp: 1850

Ion Ratio Lower Upper

88 100

43 15.3 28.6 42.8#

58 70.9 58.2 87.4



Abundance Ion 88.00 (87.70 to 88.70): VU024853.D (-1780) (-)

Ion 43.00 (42.70 to 43.70): VU024853.D (-1780) (-)

Ion 58.00 (57.70 to 58.70): VU024853.D (-1780) (-)

6.63

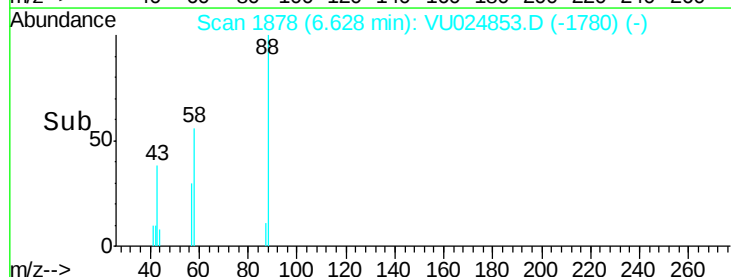
1000

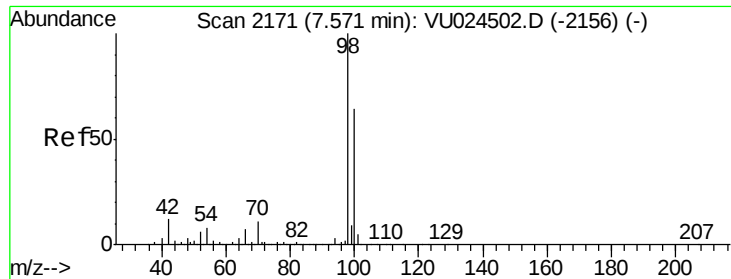
500

0

6.60 6.65

Time-->





#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

Instrument :

MSVOA_U

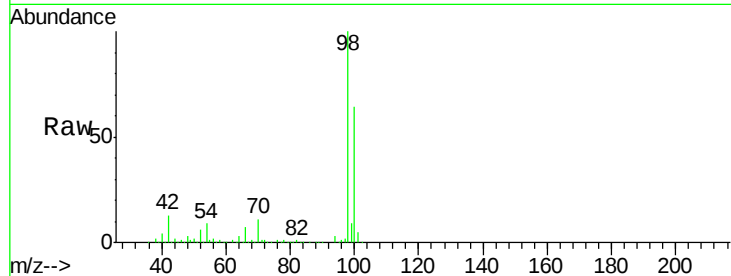
ClientSampleId :

Tot Ion: 98 Resp: 430345

Ion Ratio Lower Upper

98 100

100 63.7 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VU024502.D (-2156) (-)

Ion 100.00 (99.70 to 100.70): VU024502.D (-2156) (-)

7.57

250000

200000

150000

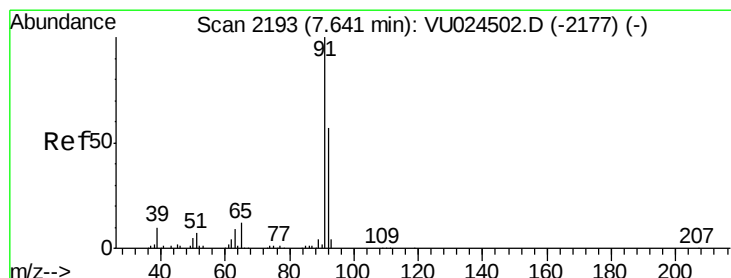
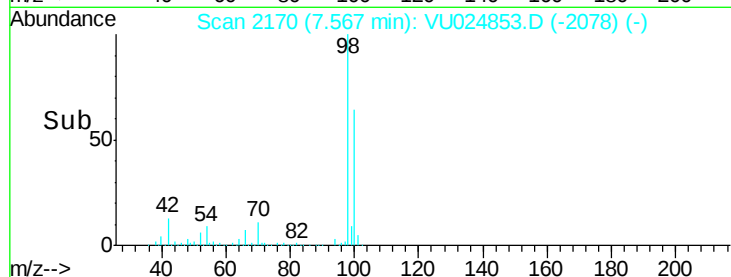
100000

50000

0

7.50 7.60 7.70

Time-->



#52

Toluene

Concen: 0.91 ug/l

RT: 7.64 min Scan# 2193

Delta R.T. -0.00 min

Lab File: VU024853.D

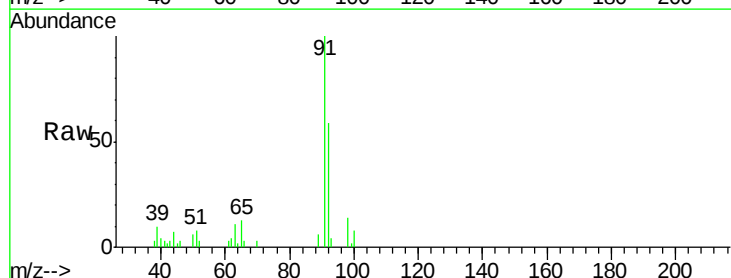
Acq: 22 Jun 2018 23:52

Tgt Ion: 92 Resp: 5746

Ion Ratio Lower Upper

92 100

91 187.4 140.5 210.7



Abundance Ion 92.00 (91.70 to 92.70): VU024502.D (-2177) (-)

Ion 91.00 (90.70 to 91.70): VU024502.D (-2177) (-)

7.64

6000

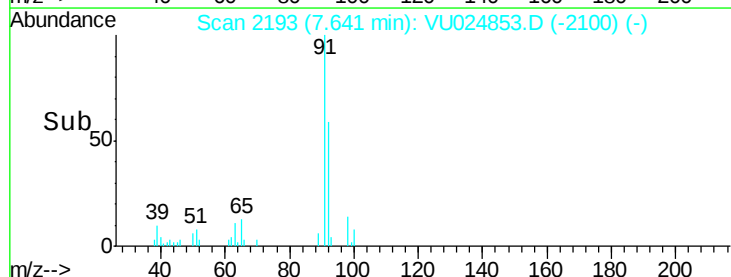
4000

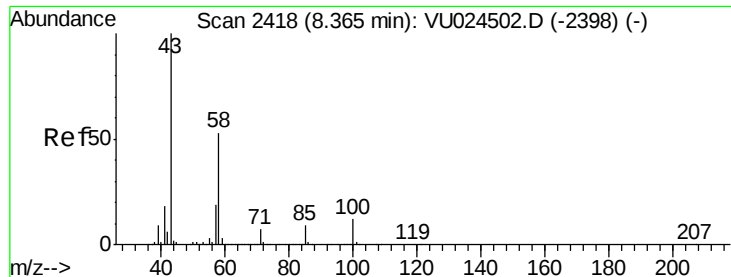
2000

0

7.60 7.65 7.70

Time-->

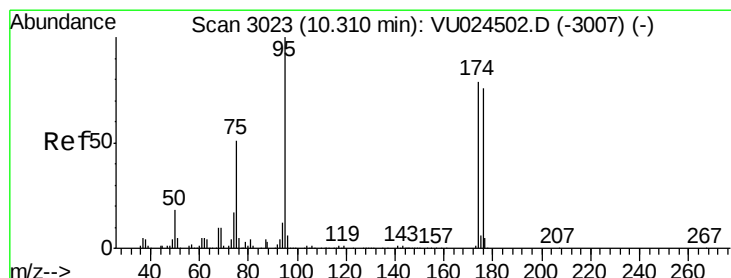
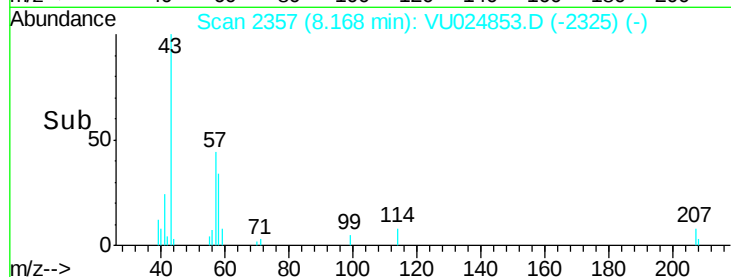
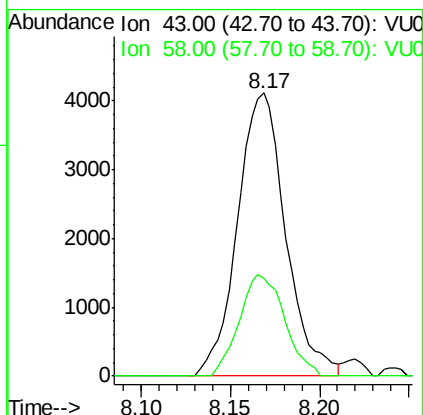
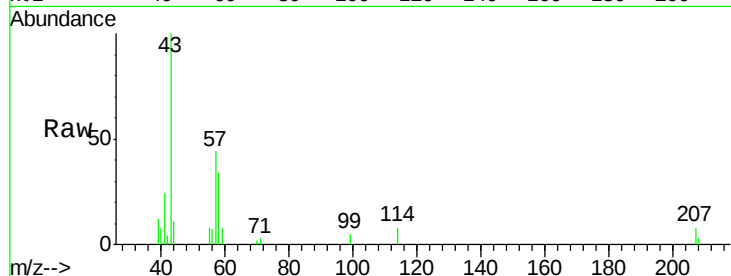




#59
2-Hexanone
Concen: 2.32 ug/l
RT: 8.17 min Scan# 2357
Delta R.T. -0.20 min
Lab File: VU024853.D
Acq: 22 Jun 2018 23:52

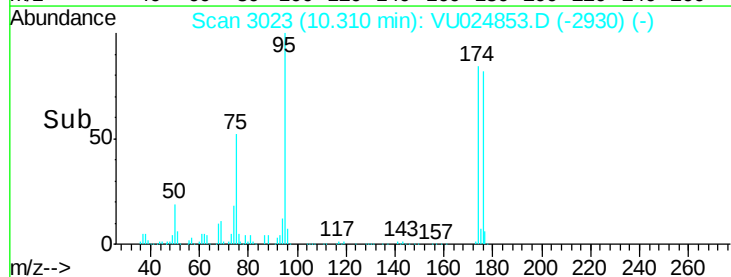
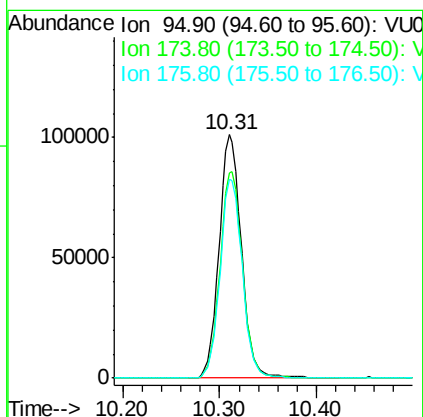
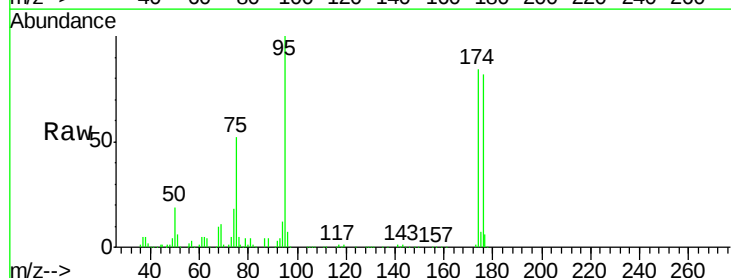
Instrument :
MSVOA_U
ClientSampleId :

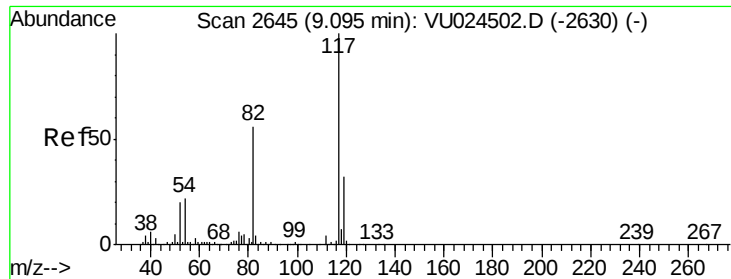
Tot Ion: 43 Resp: 7732
Ion Ratio Lower Upper
43 100
58 33.6 26.4 79.0



#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

Tgt Ion: 95 Resp: 162191
Ion Ratio Lower Upper
95 100
174 85.3 0.0 165.8
176 81.3 0.0 159.4

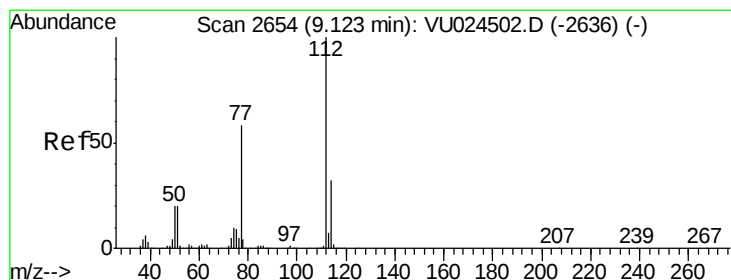
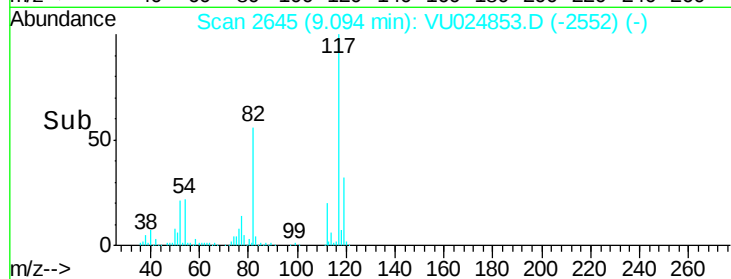
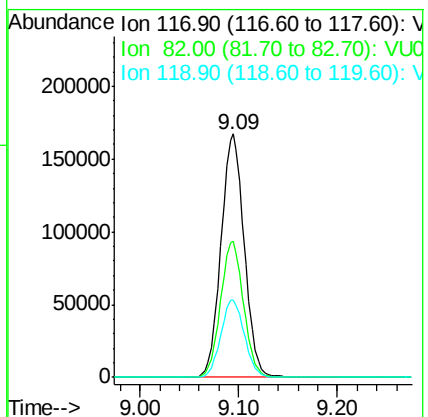
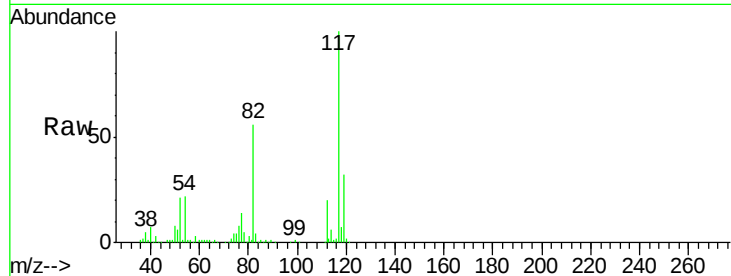




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.09 min Scan# 2645
Delta R.T. -0.00 min
Lab File: VU024853.D
Acq: 22 Jun 2018 23:52

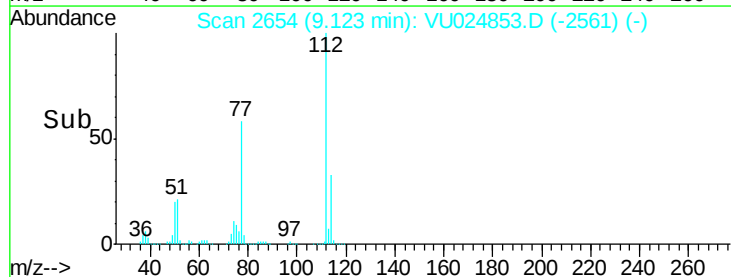
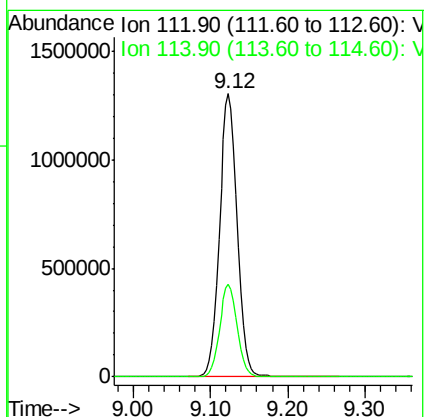
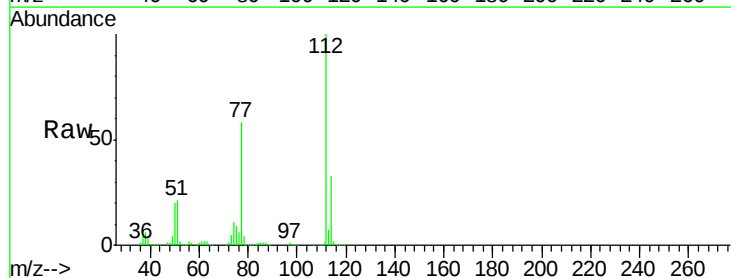
Instrument :
MSVOA_U
ClientSampleId :

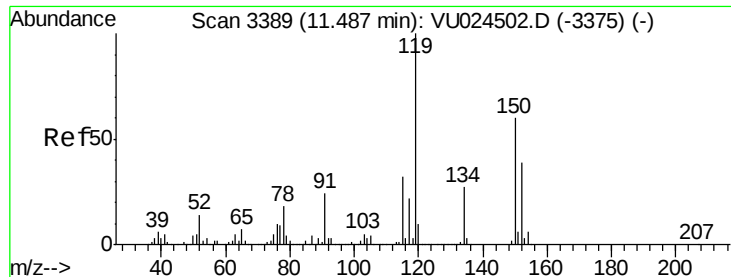
Tot Ion:117 Resp: 276913
Ion Ratio Lower Upper
117 100
82 56.0 44.3 66.5
119 31.9 25.4 38.2



#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

Tgt 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

Instrument :

MSVOA_U

ClientSampleId :

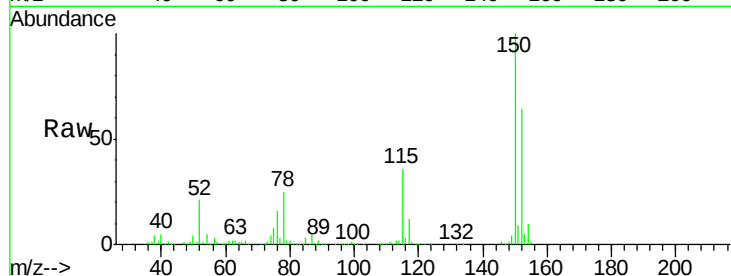
Tot Ion:152 Resp: 152965

Ion Ratio Lower Upper

152 100

115 57.4 43.0 129.0

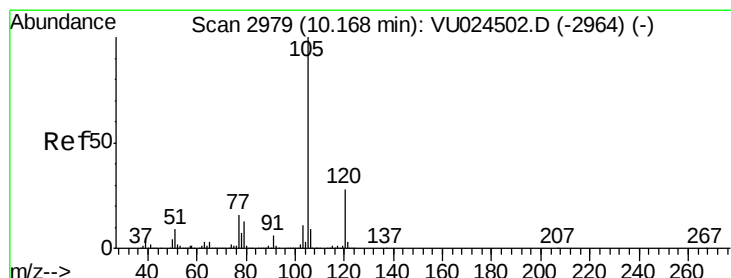
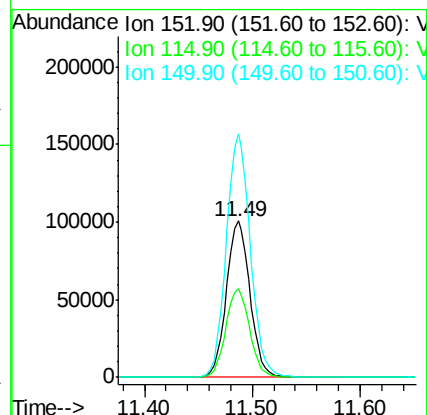
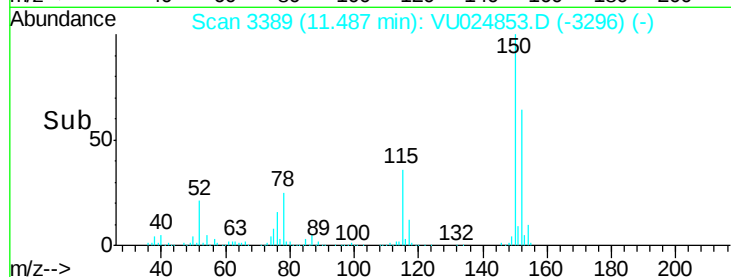
150 158.2 0.0 354.0



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



#73

Isopropylbenzene

Concen: 0.45 ug/l

RT: 10.17 min Scan# 2980

Delta R.T. 0.00 min

Lab File: VU024853.D

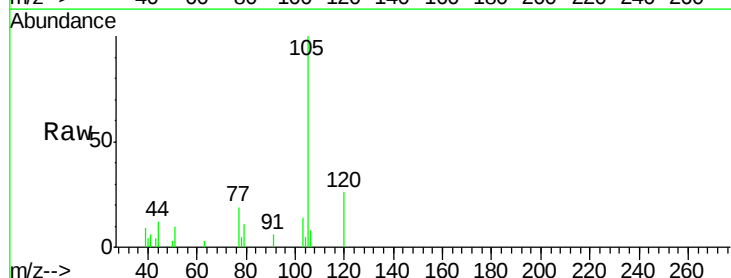
Acq: 22 Jun 2018 23:52

Tgt Ion:105 Resp: 5246

Ion Ratio Lower Upper

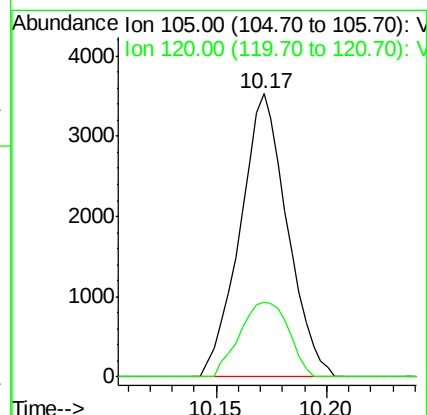
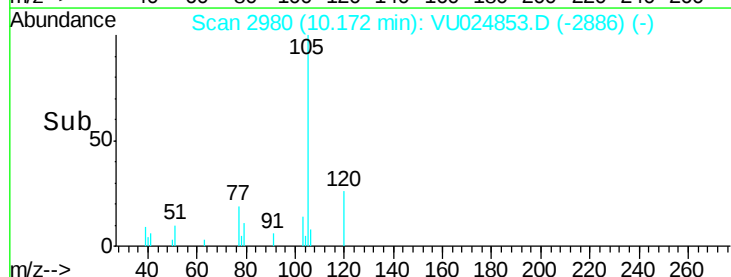
105 100

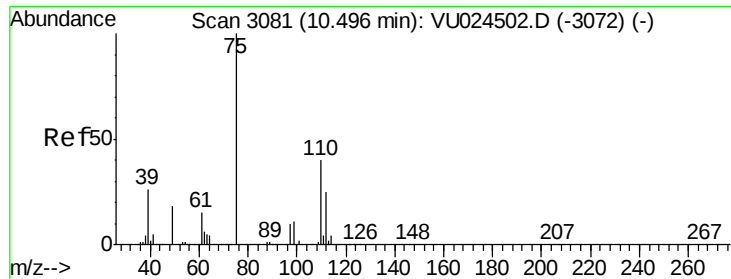
120 27.4 13.2 39.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#76

1,2,3-Trichloropropane

Concen: 24.77 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU024853.D

Acq: 22 Jun 2018 23:52

Instrument :

MSVOA_U

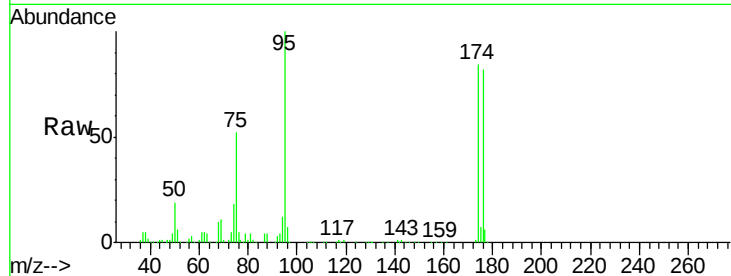
ClientSampleId :

Tot Ion: 75 Resp: 83422

Ion Ratio Lower Upper

75 100

77 1.0 20.9 62.7#



Abundance Ion 74.90 (74.60 to 75.60): VU024502.D (-3072) (-)

Ion 77.00 (76.70 to 77.70): VU024502.D (-3072) (-)

10.31

60000

50000

40000

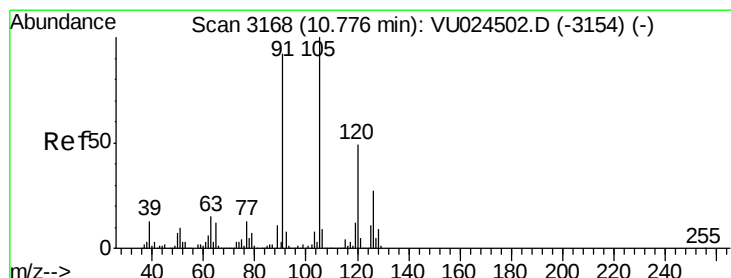
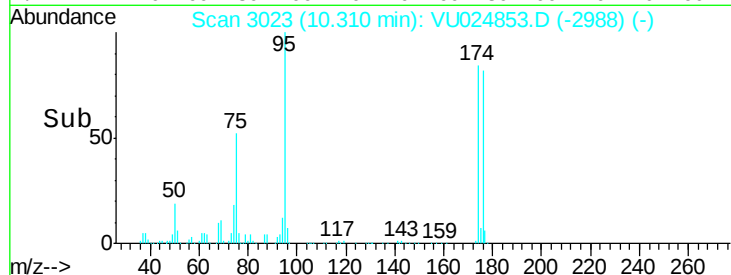
30000

20000

10000

0

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 0.21 ug/l

RT: 10.98 min Scan# 3231

Delta R.T. 0.20 min

Lab File: VU024853.D

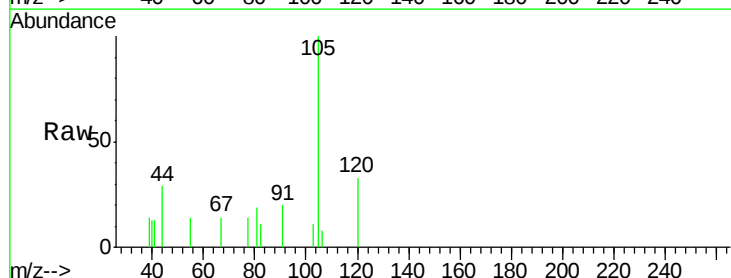
Acq: 22 Jun 2018 23:52

Tgt Ion: 105 Resp: 2141

Ion Ratio Lower Upper

105 100

120 30.4 24.1 72.2



Abundance Ion 105.00 (104.70 to 105.70): VU024502.D (-3154) (-)

Ion 120.00 (119.70 to 120.70): VU024502.D (-3154) (-)

10.98

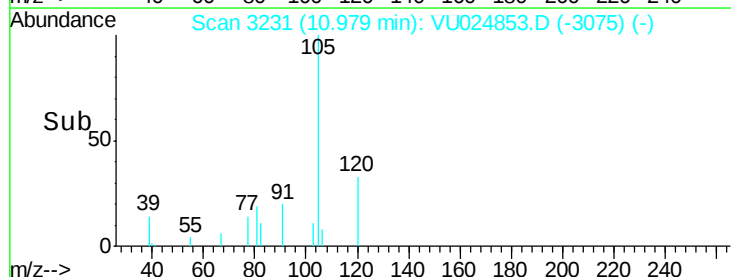
1500

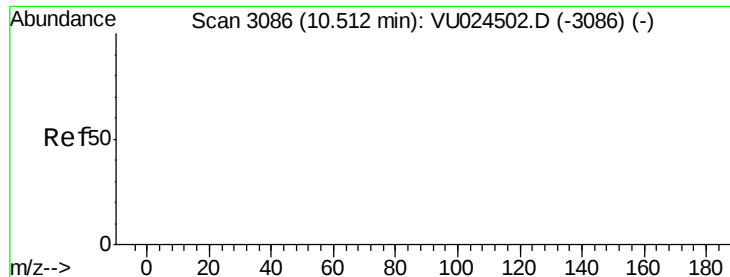
1000

500

0

Time-->

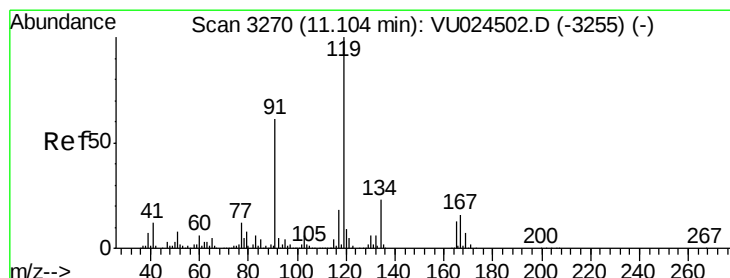
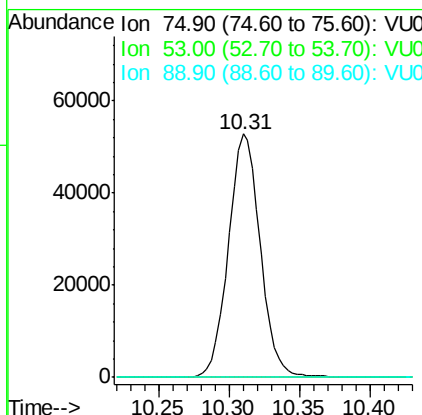
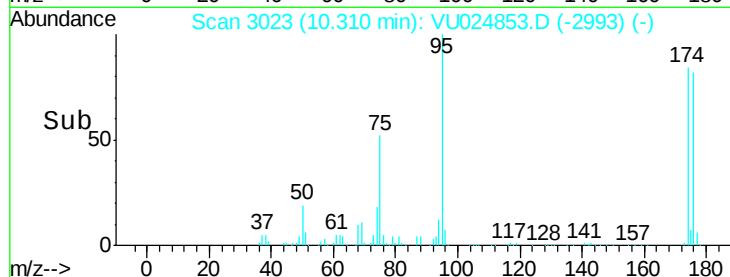
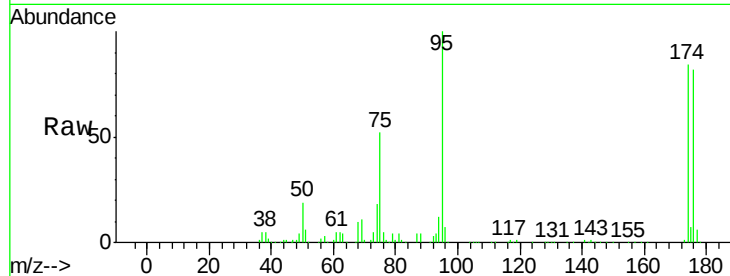




#81
trans-1,4-Dichloro-2-butene
Concen: 57.33 ug/l
RT: 10.31 min Scan# 3023
Delta R.T. -0.20 min
Lab File: VU024853.D
Acq: 22 Jun 2018 23:52

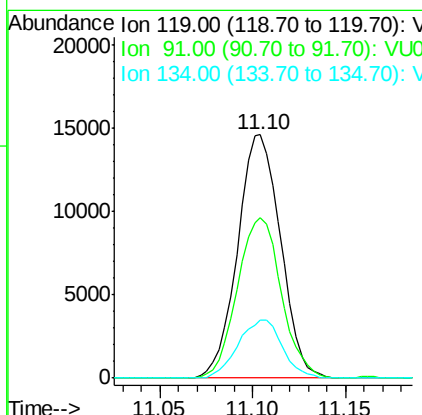
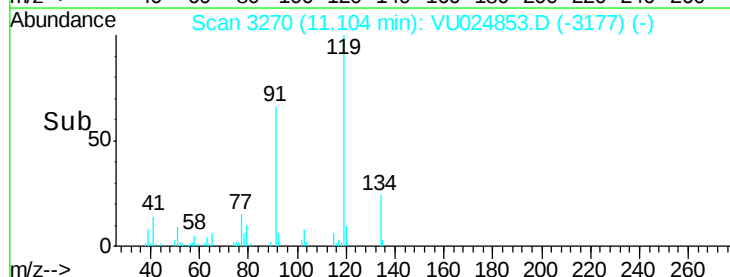
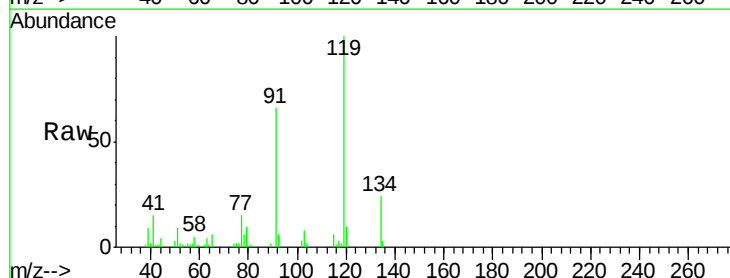
Instrument :
MSVOA_U
ClientSampleId :

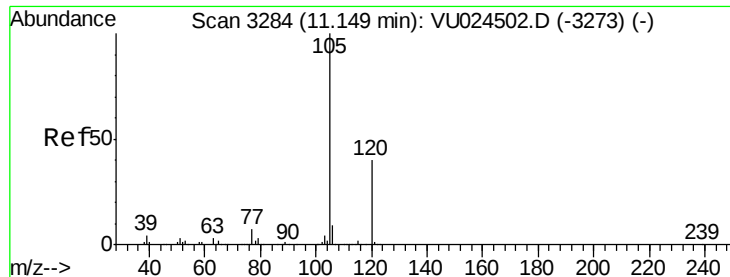
Tot Ion: 75 Resp: 83422
Ion Ratio Lower Upper
75 100
53 0.0 0.0 0.0
89 0.0 0.0 0.0



#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





#84

1,2,4-Trimethylbenzene

Concen: 0.21 ug/l

RT: 10.98 min Scan# 3231

Delta R.T. -0.17 min

Lab File: VU024853.D

Acq: 22 Jun 2018 23:52

Instrument :

MSVOA_U

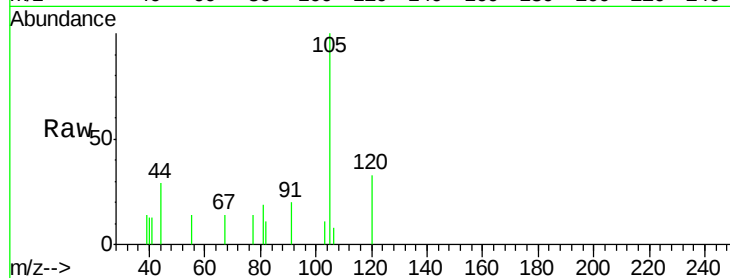
ClientSampleId :

Tot Ion:105 Resp: 2141

Ion Ratio Lower Upper

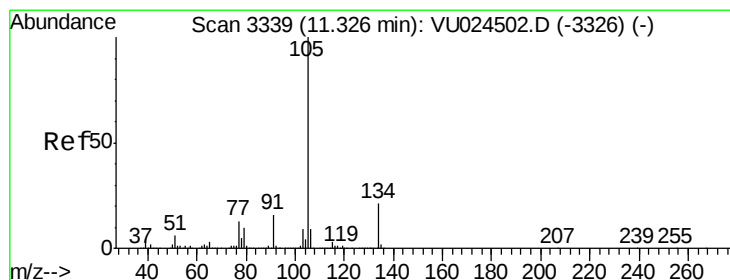
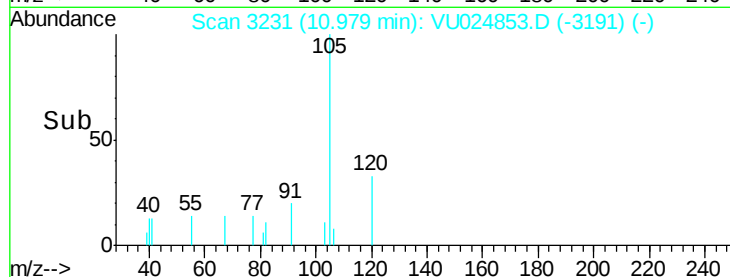
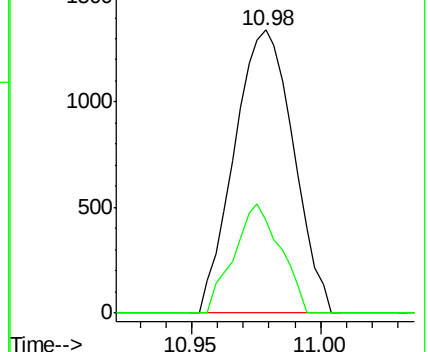
105 100

120 30.4 22.6 67.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#85

sec-Butylbenzene

Concen: 1.36 ug/l

RT: 11.33 min Scan# 3340

Delta R.T. 0.00 min

Lab File: VU024853.D

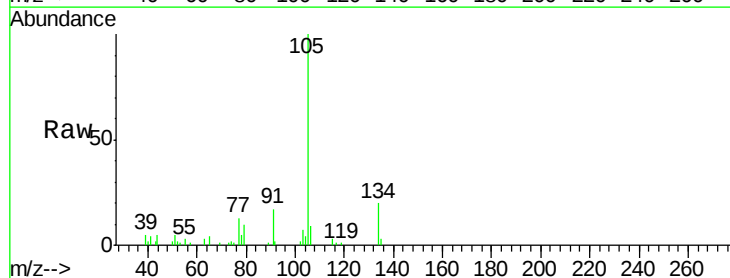
Acq: 22 Jun 2018 23:52

Tgt Ion:105 Resp: 16636

Ion Ratio Lower Upper

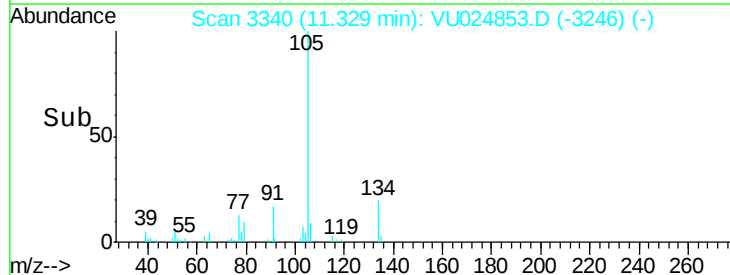
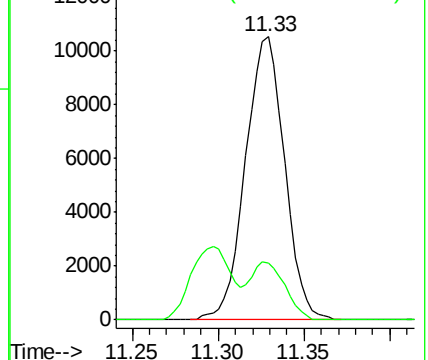
105 100

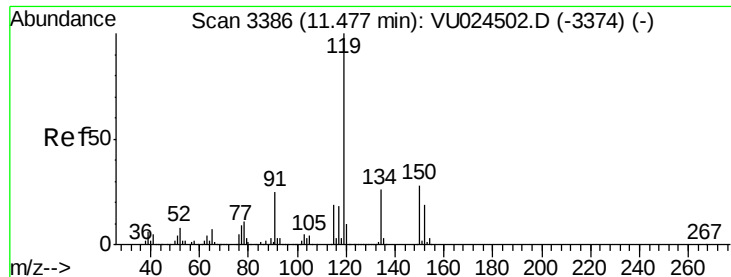
134 18.5 9.7 29.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

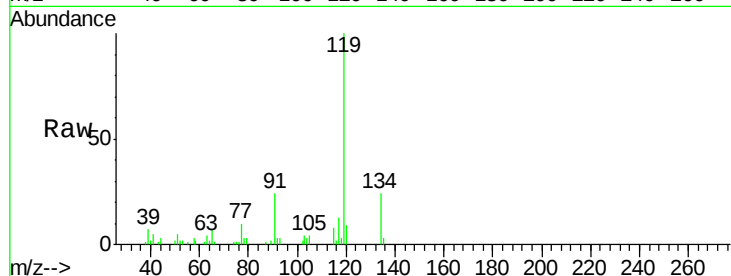




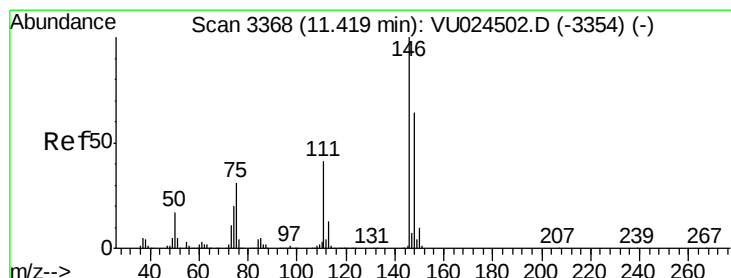
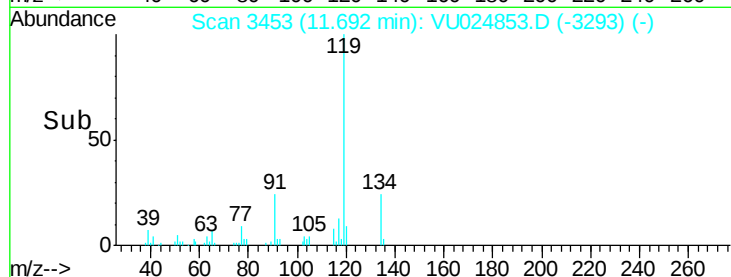
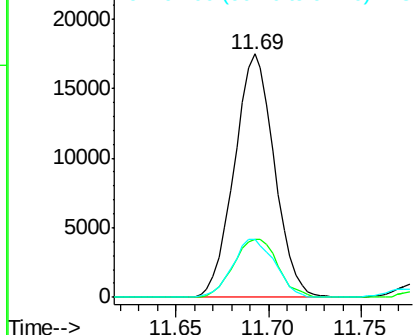
#86
 p-Isopropyltoluene
 Concen: 2.39 ug/l
 RT: 11.69 min Scan# 3453
 Delta R.T. 0.22 min
 Lab File: VU024853.D
 Acq: 22 Jun 2018 23:52

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
119	100		
134	26.1	12.9	38.6
91	25.1	12.0	36.1

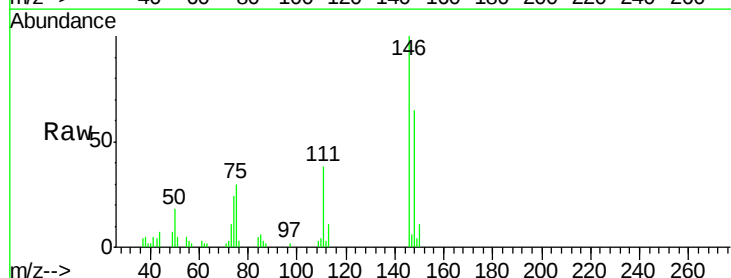


Abundance Ion 119.00 (118.70 to 119.70): V
 Ion 134.00 (133.70 to 134.70): V
 Ion 91.00 (90.70 to 91.70): V

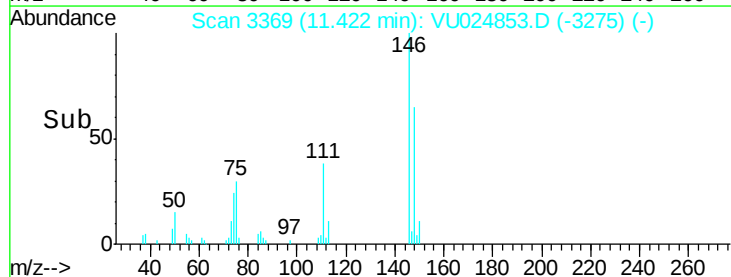
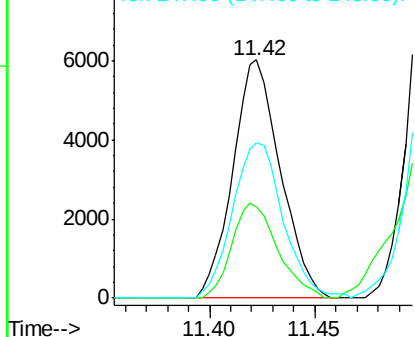


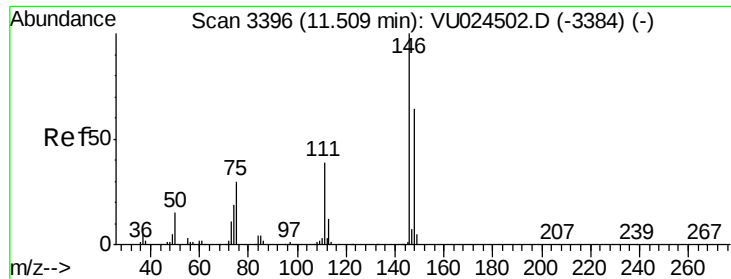
#87
 1,3-Dichlorobenzene
 Concen: 1.72 ug/l
 RT: 11.42 min Scan# 3369
 Delta R.T. 0.00 min
 Lab File: VU024853.D
 Acq: 22 Jun 2018 23:52

Tgt Ion	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 :

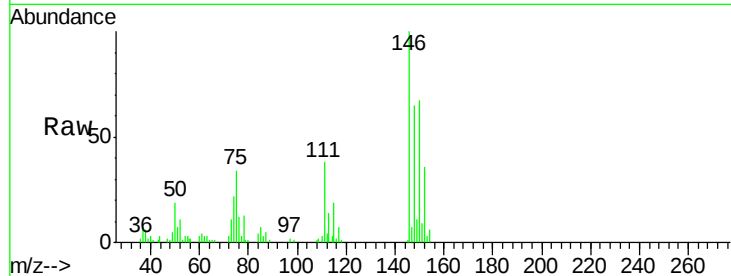
Tot Ion:146 Resp: 27080

Ion Ratio Lower Upper

146 100

111 44.2 19.5 58.5

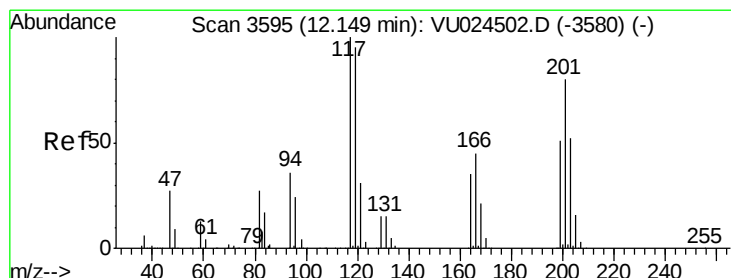
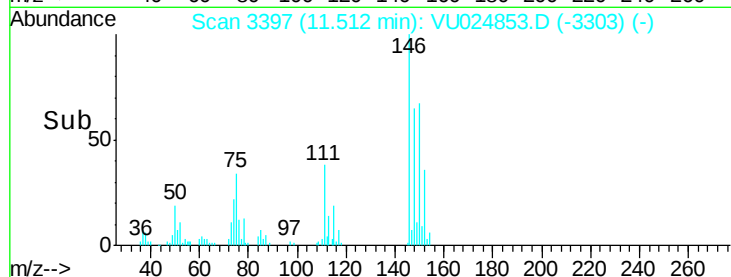
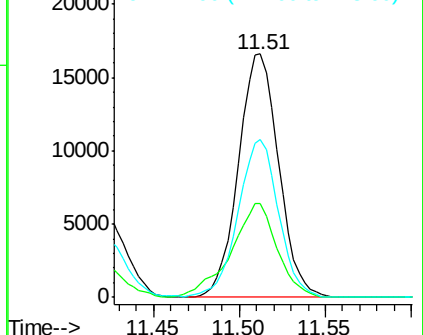
148 65.1 32.4 97.0



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



#90

Hexachloroethane

Concen: 0.25 ug/l

RT: 12.29 min Scan# 3638

Delta R.T. 0.14 min

Lab File: VU024853.D

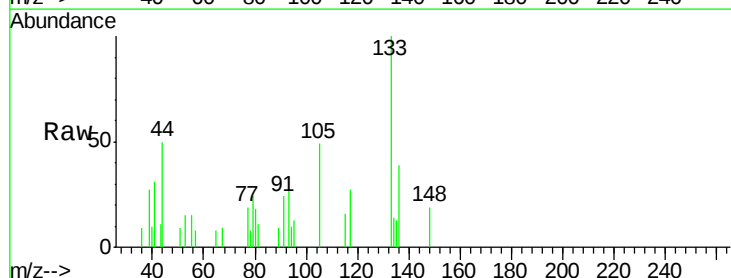
Acq: 22 Jun 2018 23:52

Tgt Ion:117 Resp: 537

Ion Ratio Lower Upper

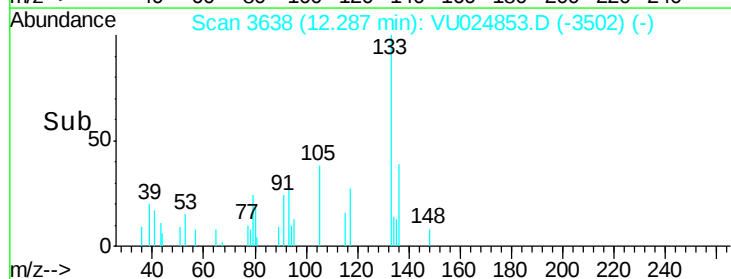
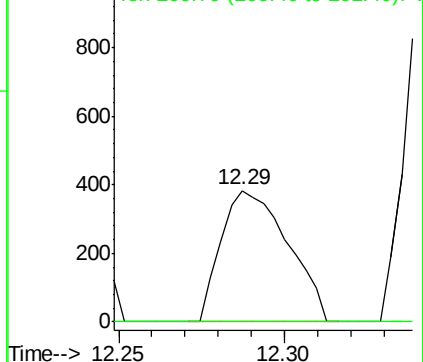
117 100

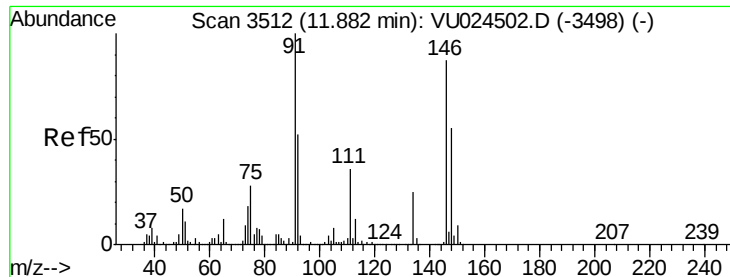
201 0.0 41.1 123.3#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V





#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

Instrument :

MSVOA_U

ClientSampleId :

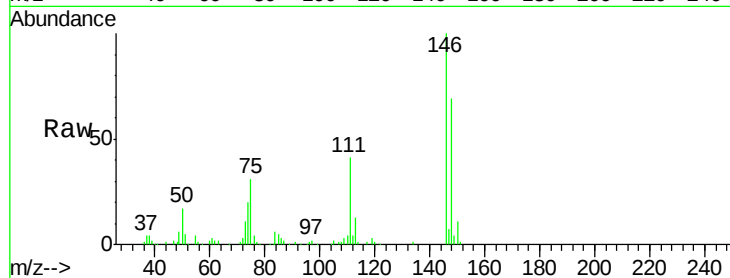
Tot Ion:146 Resp: 60952

Ion Ratio Lower Upper

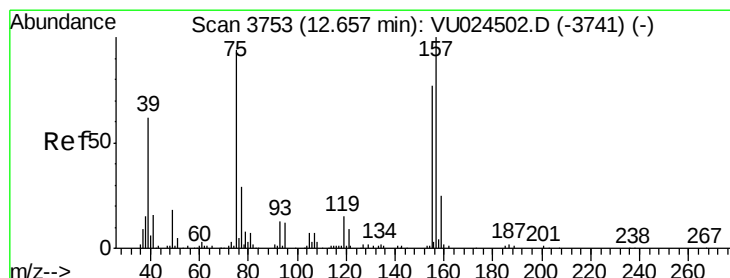
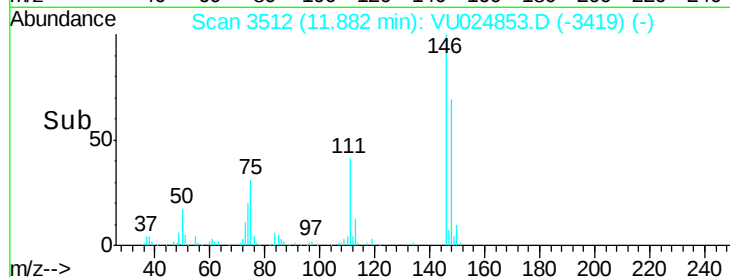
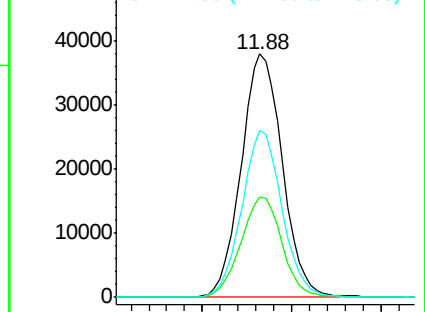
146 100

111 41.2 20.5 61.6

148 66.9 31.9 95.7



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



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.24 ug/l

RT: 12.54 min Scan# 3718

Delta R.T. -0.11 min

Lab File: VU024853.D

Acq: 22 Jun 2018 23:52

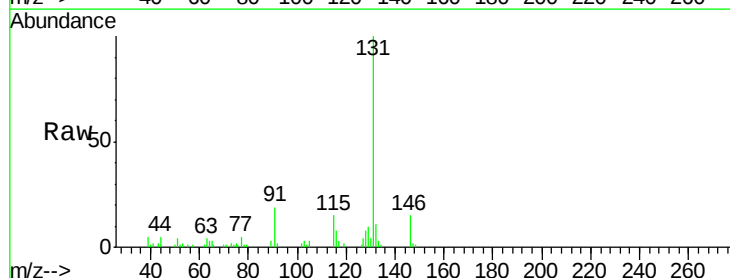
Tgt Ion: 75 Resp: 260

Ion Ratio Lower Upper

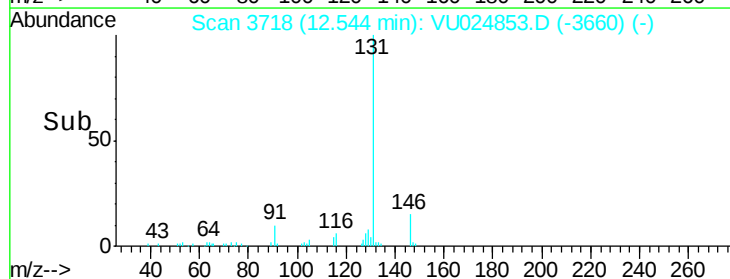
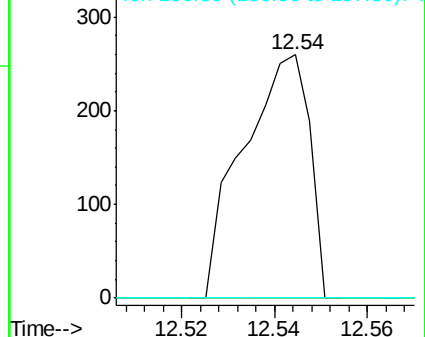
75 100

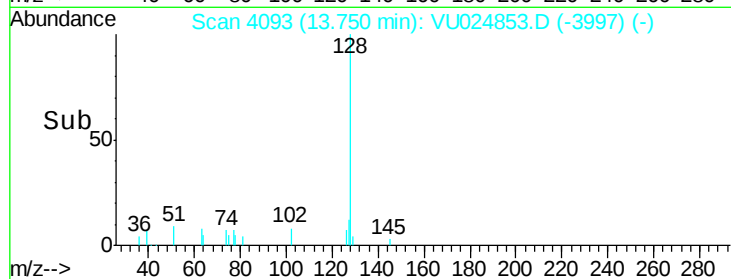
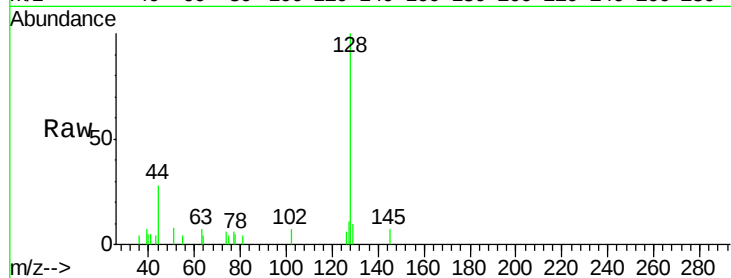
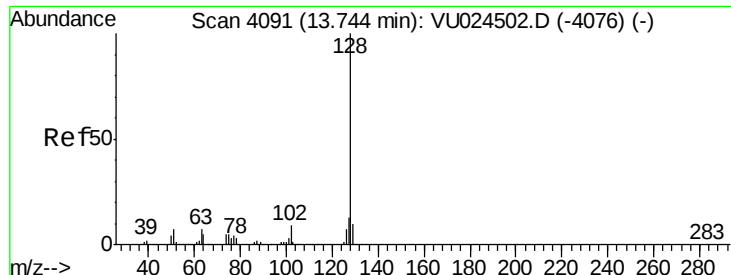
155 0.0 40.4 121.2#

157 0.0 52.3 156.8#



Abundance Ion 74.90 (74.60 to 75.60): VU0
Ion 154.80 (154.50 to 155.50): V
Ion 156.80 (156.50 to 157.50): V





#95

Naphthalene

Concen: 1.09 ug/l

RT: 13.75 min Scan# 4093

Delta R.T. 0.01 min

Lab File: VU024853.D

Acq: 22 Jun 2018 23:52

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion:128 Resp: 4657

Ion Ratio Lower Upper

128 100

127 10.2 10.6 16.0#

129 4.6 8.6 12.8#

