

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU062518\
 Data File : VU024887.D
 Acq On : 25 Jun 2018 20:11
 Operator : MD/SY
 Sample : J3663-05ME
 Misc : 6.76g/5.0mL/100uL/5.0mL/MSVOA_U/MEOH
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jun 26 05:18:11 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	4.98	168	216372	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	333851	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	328645	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	190287	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	161569	45.74	ug/l	0.00
Spiked Amount			Recovery	=	91.48%	
35) Dibromofluoromethane	4.88	113	129441	46.72	ug/l	0.00
Spiked Amount			Recovery	=	93.44%	
50) Toluene-d8	7.57	98	491276	48.61	ug/l	0.00
Spiked Amount			Recovery	=	97.22%	
62) 4-Bromofluorobenzene	10.32	95	204456	50.95	ug/l	0.00
Spiked Amount			Recovery	=	101.90%	

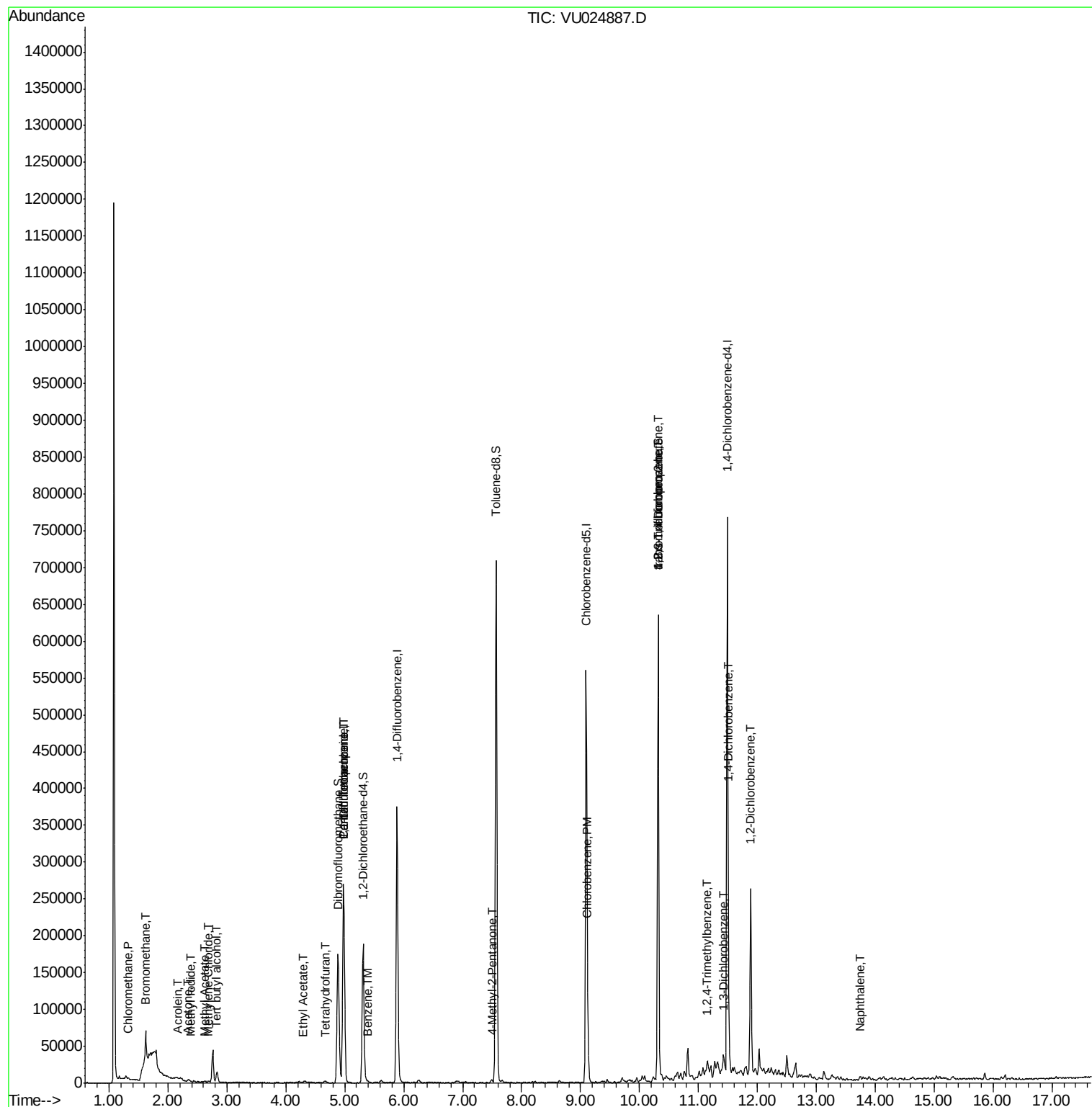
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1217	0.44	ug/l	# 70
5) Bromomethane	1.60	94	1407	1.02	ug/l	88
6) Chloroethane	1.66	64	268	Below Cal	#	38
8) Diethyl Ether	1.91	74	73	Below Cal		56
10) Methyl Iodide	2.40	142	66	5.31	ug/l	# 40
11) Tert butyl alcohol	2.83	59	8177	9.52	ug/l	# 76
13) Acrolein	2.17	56	199	0.44	ug/l	99
16) Acetone	2.34	43	4453	2.35	ug/l	94
18) Methyl Acetate	2.63	43	1779	0.44	ug/l	91
20) Methylene Chloride	2.68	84	923	0.31	ug/l	85
29) Tetrahydrofuran	4.66	42	1636	1.04	ug/l	# 60
31) Cyclohexane	4.98	56	4544	Below Cal	#	1
36) 1,1-Dichloropropene	4.98	75	16220	4.13	ug/l	# 51
37) Ethyl Acetate	4.29	43	1442	0.34	ug/l	# 70
38) Carbon Tetrachloride	4.98	117	20421	4.73	ug/l	# 16
40) Benzene	5.39	78	2250	0.20	ug/l	95
51) 4-Methyl-2-Pentanone	7.49	43	1766	0.38	ug/l	# 58
65) Chlorobenzene	9.13	112	28404	3.38	ug/l	99
76) 1,2,3-Trichloropropane	10.32	75	105726	25.24	ug/l	# 35
81) trans-1,4-Dichloro-2-buten	10.32	75	105726	58.41	ug/l	# 100
84) 1,2,4-Trimethylbenzene	11.16	105	3568	0.28	ug/l	93
87) 1,3-Dichlorobenzene	11.43	146	7155	1.05	ug/l	# 84
88) 1,4-Dichlorobenzene	11.51	146	15272	2.22	ug/l	# 78
91) 1,2-Dichlorobenzene	11.89	146	96292	14.07	ug/l	100
95) Naphthalene	13.75	128	3413	0.92	ug/l	# 92

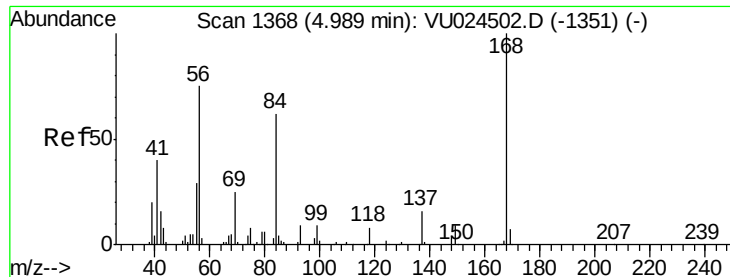
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Jun 13 13:55:26 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.98 min Scan# 1365

Delta R.T. -0.01 min

Lab File: VU024887.D

Acq: 25 Jun 2018 20:11

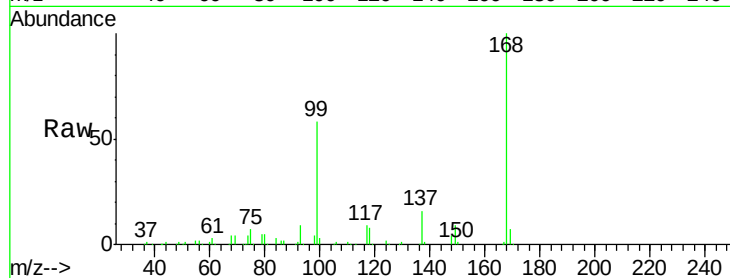
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:168 Resp: 216372

Ion Ratio Lower Upper

168 100

99 57.5 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) (-)

4.98

100000

80000

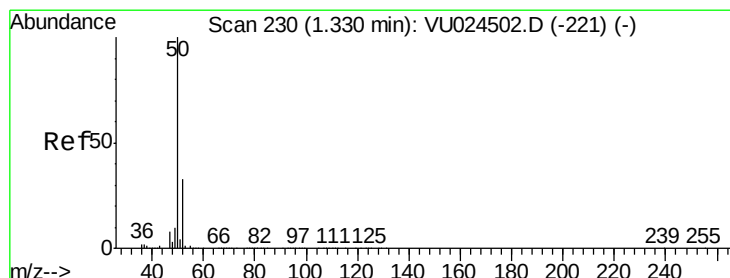
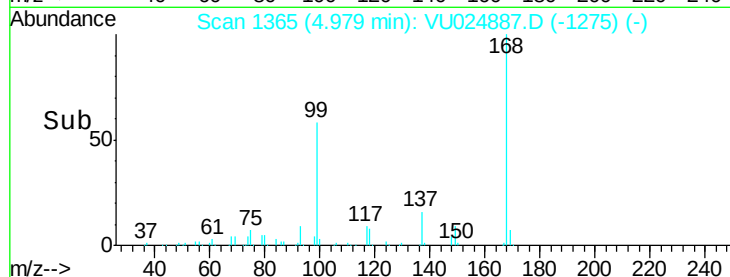
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.44 ug/l

RT: 1.32 min Scan# 227

Delta R.T. -0.01 min

Lab File: VU024887.D

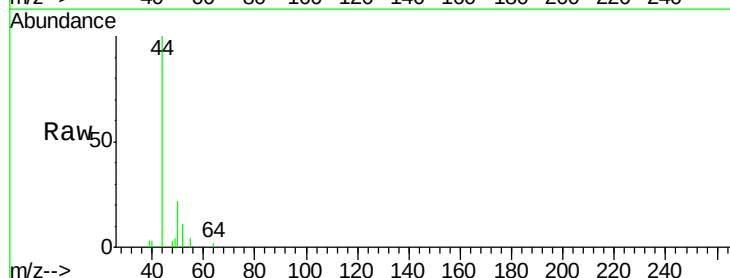
Acq: 25 Jun 2018 20:11

Tgt Ion: 50 Resp: 1217

Ion Ratio Lower Upper

50 100

52 49.8 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) (-)

1.32

1200

1000

800

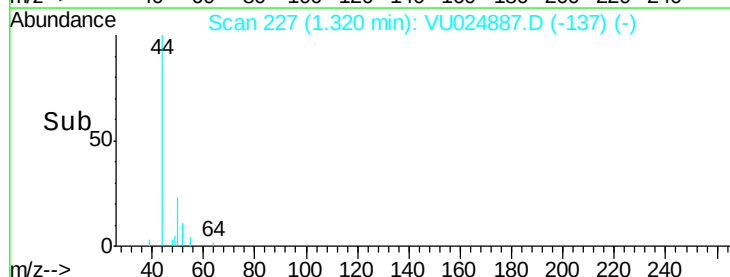
600

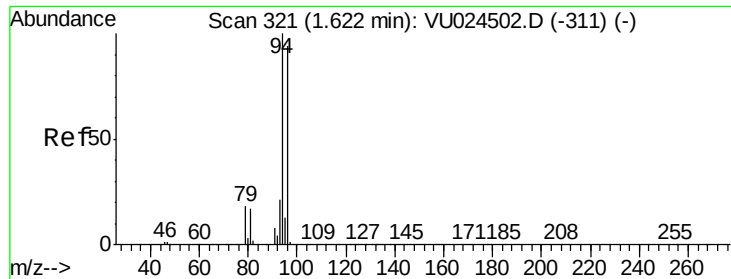
400

200

0

Time-->





#5

Bromomethane

Concen: 1.02 ug/l

RT: 1.60 min Scan# 315

Delta R.T. -0.02 min

Lab File: VU024887.D

Acq: 25 Jun 2018 20:11

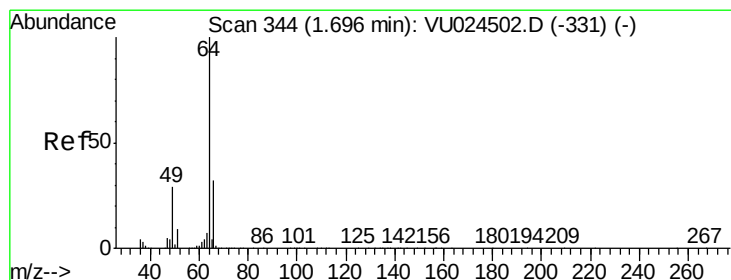
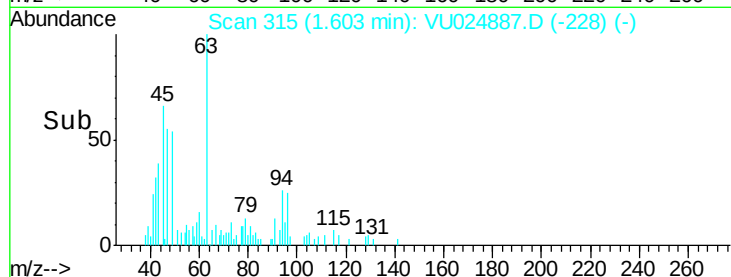
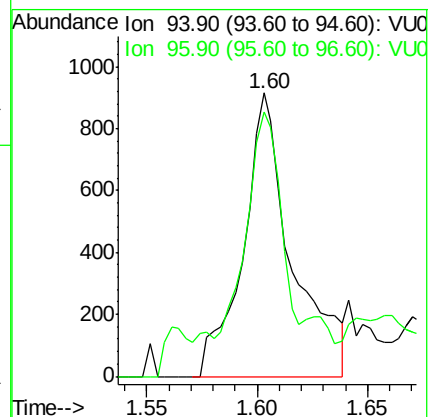
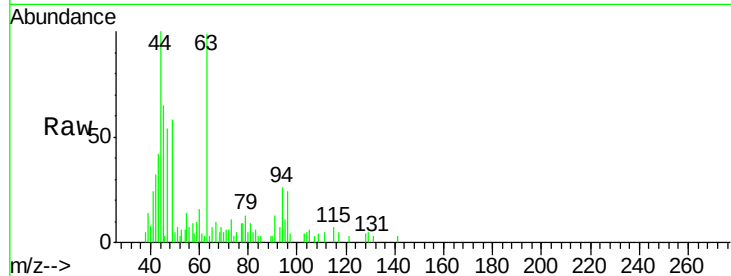
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 94 Resp: 1407

Ion Ratio Lower Upper

94 100

96 81.3 74.5 111.7



#6

Chloroethane

Concen: Below Cal

RT: 1.66 min Scan# 332

Delta R.T. -0.04 min

Lab File: VU024887.D

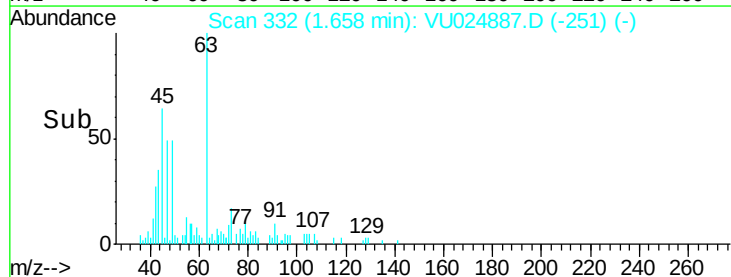
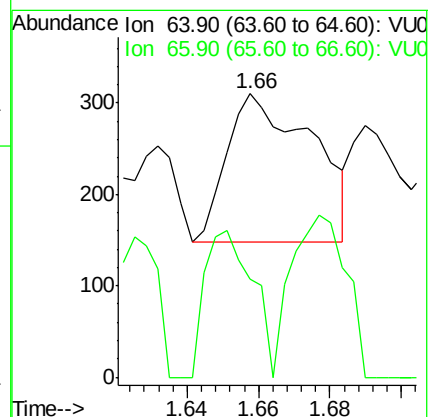
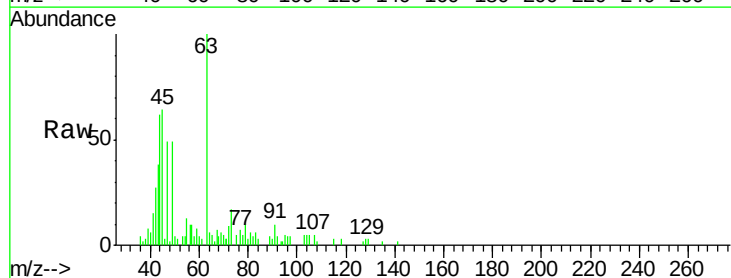
Acq: 25 Jun 2018 20:11

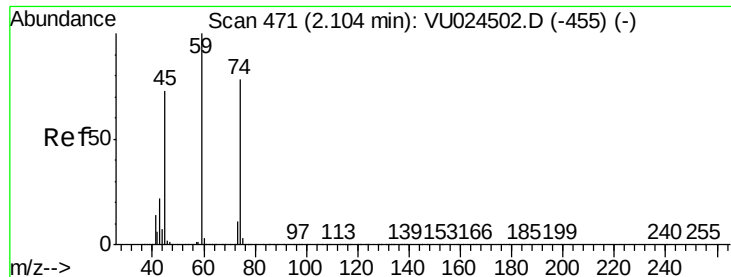
Tgt Ion: 64 Resp: 268

Ion Ratio Lower Upper

64 100

66 66.7 25.5 38.3#

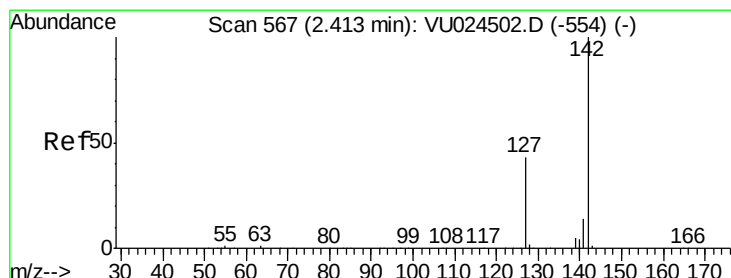
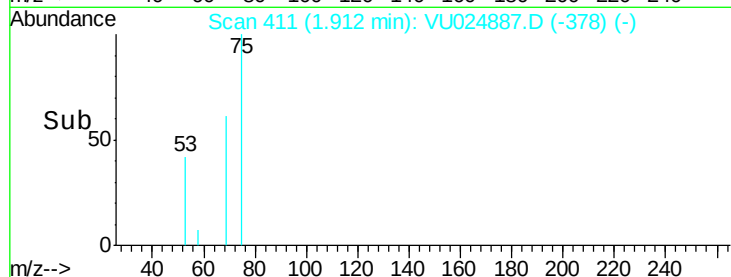
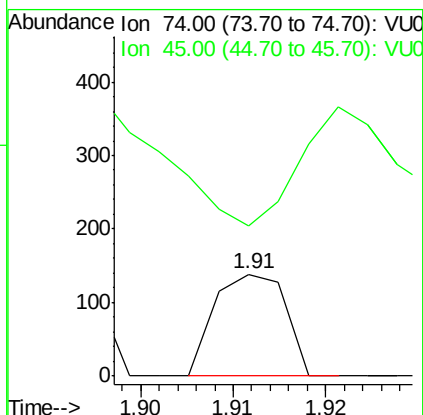
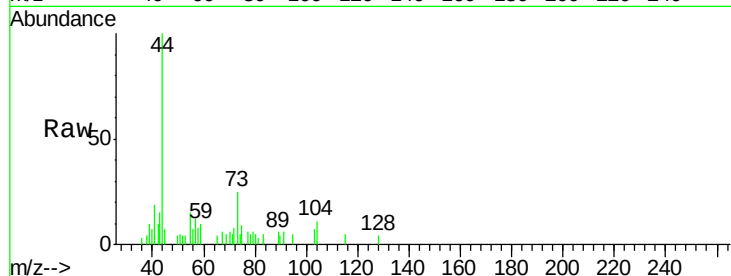




#8
Diethyl Ether
Concen: Below Cal
RT: 1.91 min Scan# 411
Delta R.T. -0.19 min
Lab File: VU024887.D
Acq: 25 Jun 2018 20:11

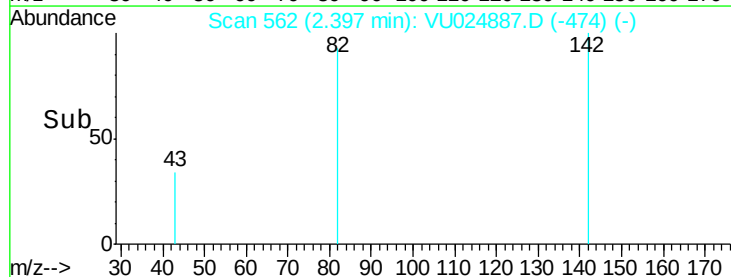
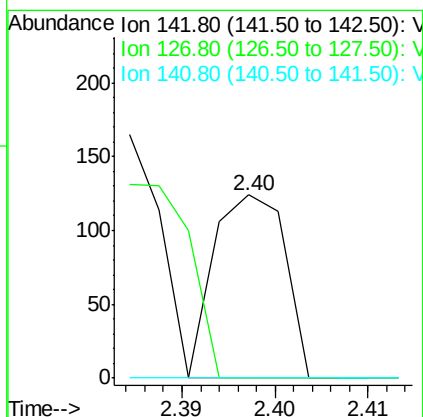
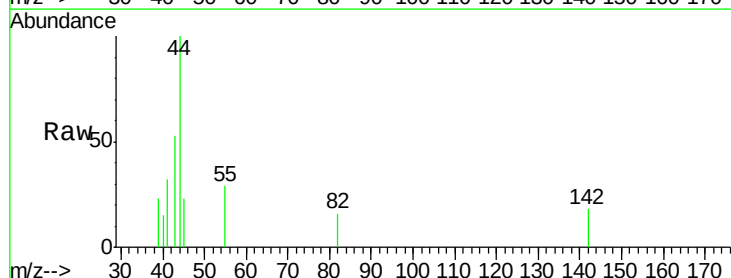
Instrument :
MSVOA_U
ClientSampleId :

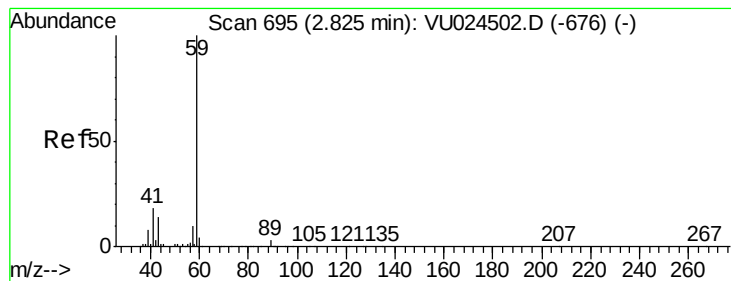
Tot Ion: 74 Resp: 73
Ion Ratio Lower Upper
74 100
45 156.2 55.0 165.0



#10
Methyl Iodide
Concen: 5.31 ug/l
RT: 2.40 min Scan# 562
Delta R.T. -0.02 min
Lab File: VU024887.D
Acq: 25 Jun 2018 20:11

Tgt Ion: 142 Resp: 66
Ion Ratio Lower Upper
142 100
127 0.0 35.6 53.4#
141 0.0 11.7 17.5#





#11

Tert butyl alcohol

Concen: 9.52 ug/l

RT: 2.83 min Scan# 697

Delta R.T. 0.01 min

Lab File: VU024887.D

Acq: 25 Jun 2018 20:11

Instrument :

MSVOA_U

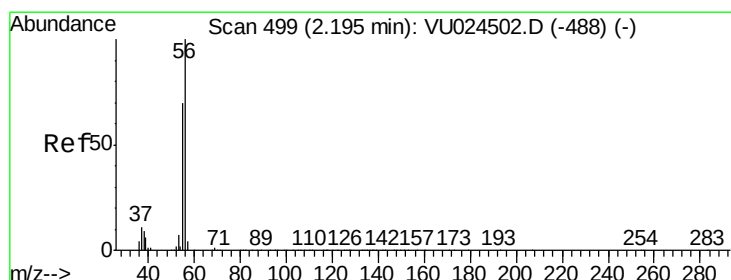
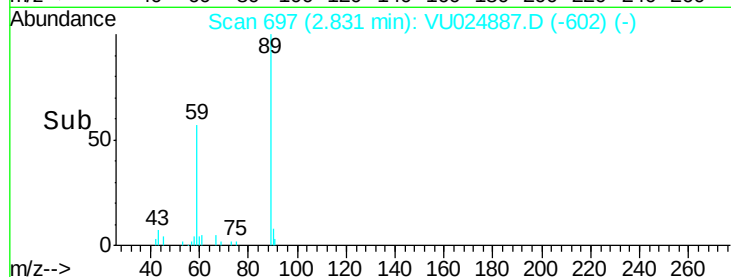
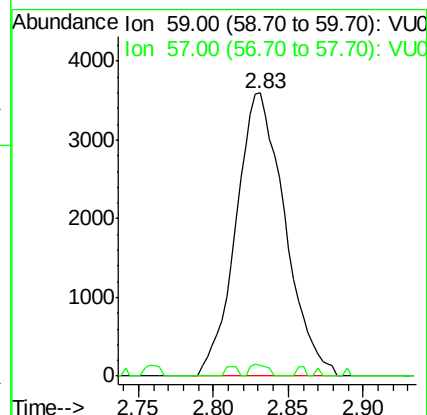
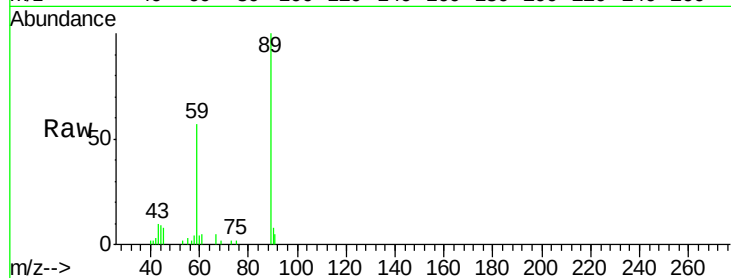
ClientSampled :

Tot Ion: 59 Resp: 8177

Ion Ratio Lower Upper

59 100

57 1.5 8.5 12.7#



#13

Acrolein

Concen: 0.44 ug/l

RT: 2.17 min Scan# 491

Delta R.T. -0.03 min

Lab File: VU024887.D

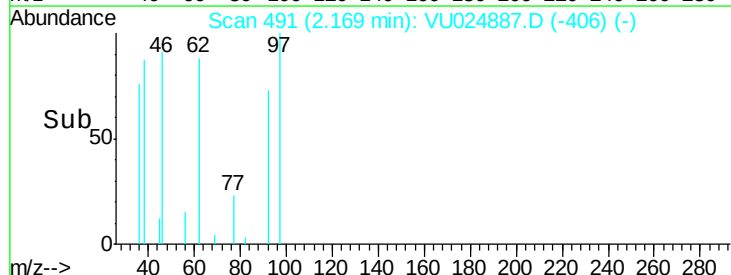
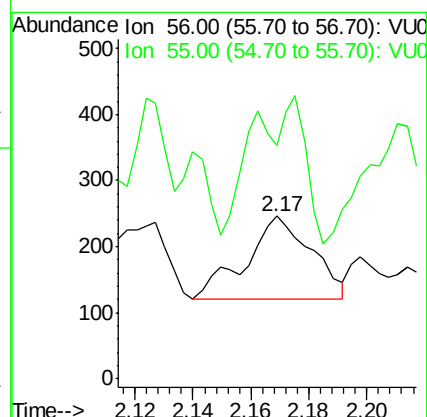
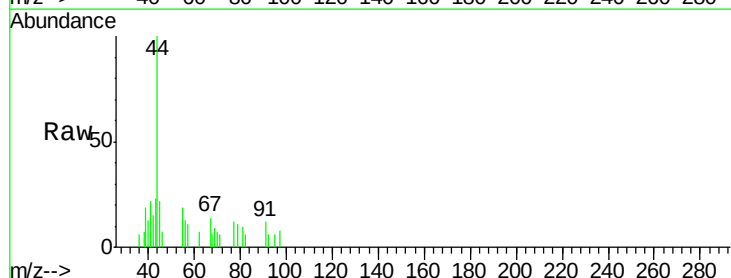
Acq: 25 Jun 2018 20:11

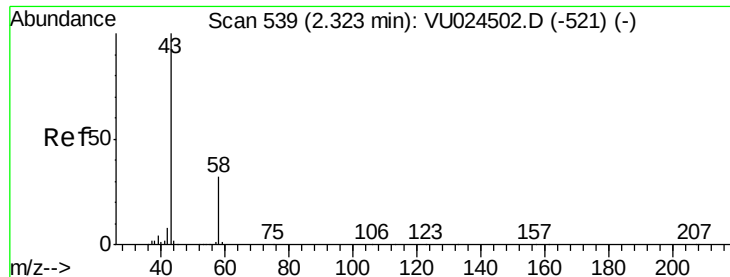
Tgt Ion: 56 Resp: 199

Ion Ratio Lower Upper

56 100

55 73.9 58.4 87.6





#16

Acetone

Concen: 2.35 ug/l

RT: 2.34 min Scan# 545

Delta R.T. 0.02 min

Lab File: VU024887.D

Acq: 25 Jun 2018 20:11

Instrument :

MSVOA_U

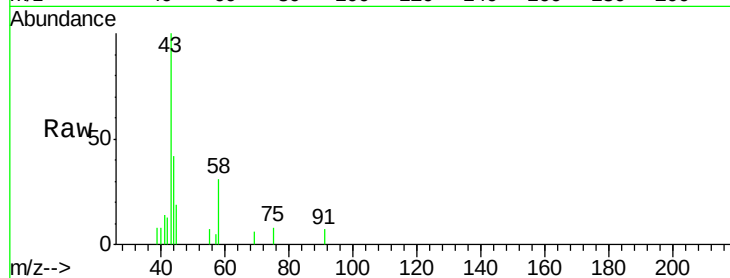
ClientSampleId :

Tot Ion: 43 Resp: 4453

Ion Ratio Lower Upper

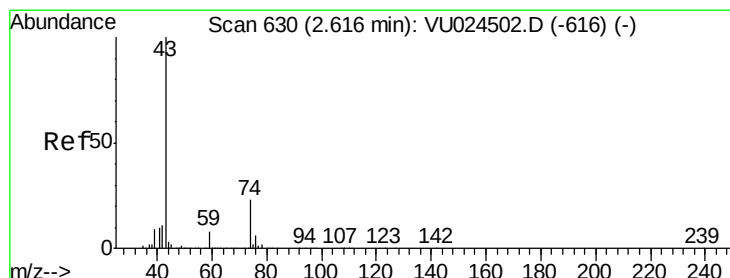
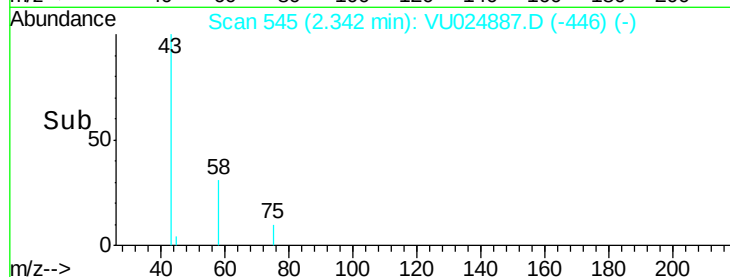
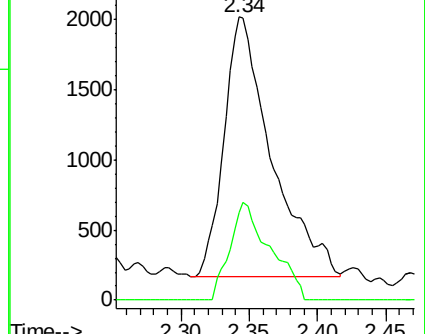
43 100

58 33.9 24.4 36.6



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#18

Methyl Acetate

Concen: 0.44 ug/l

RT: 2.63 min Scan# 635

Delta R.T. 0.02 min

Lab File: VU024887.D

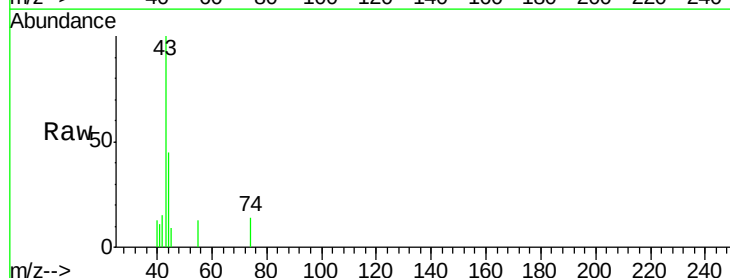
Acq: 25 Jun 2018 20:11

Tgt Ion: 43 Resp: 1779

Ion Ratio Lower Upper

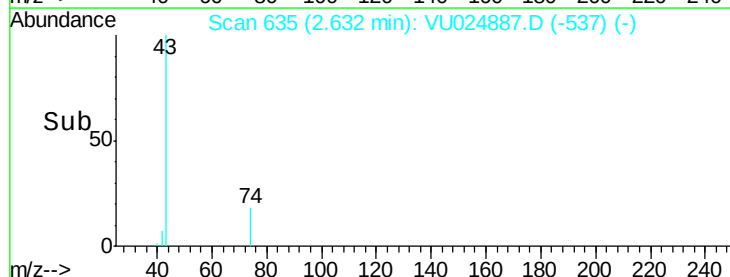
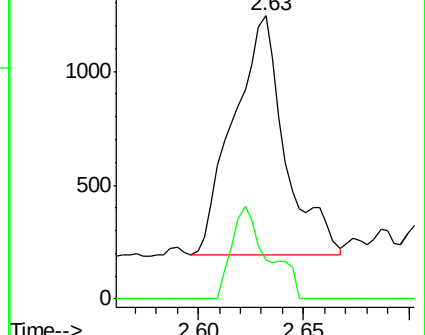
43 100

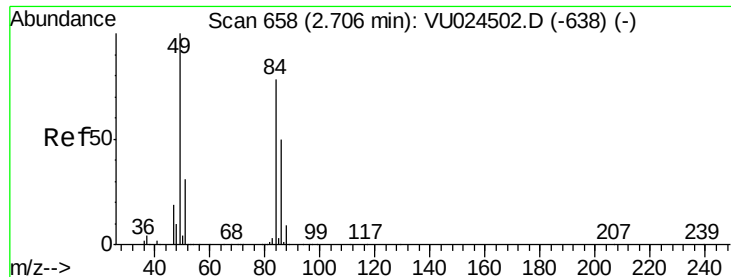
74 27.0 18.0 27.0



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0

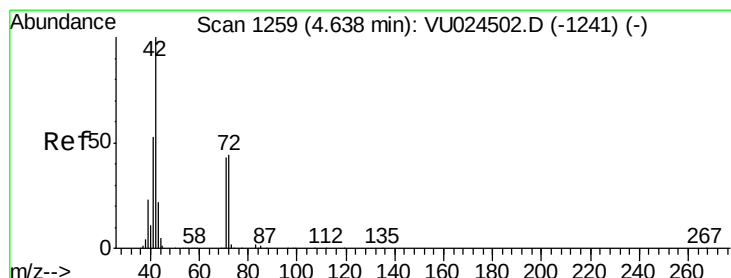
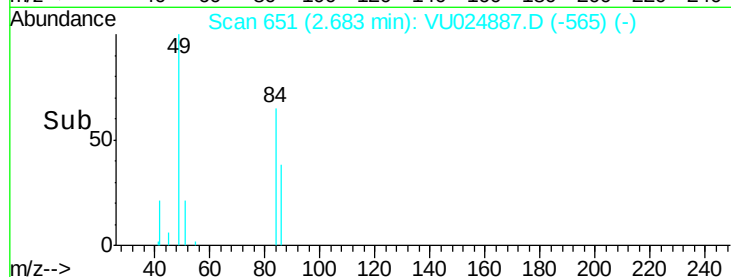
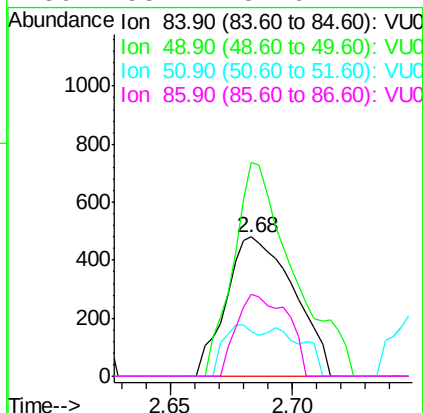
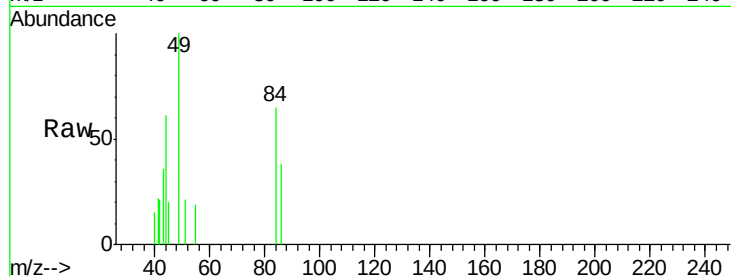




#20
Methylene Chloride
Concen: 0.31 ug/l
RT: 2.68 min Scan# 651
Delta R.T. -0.02 min
Lab File: VU024887.D
Acq: 25 Jun 2018 20:11

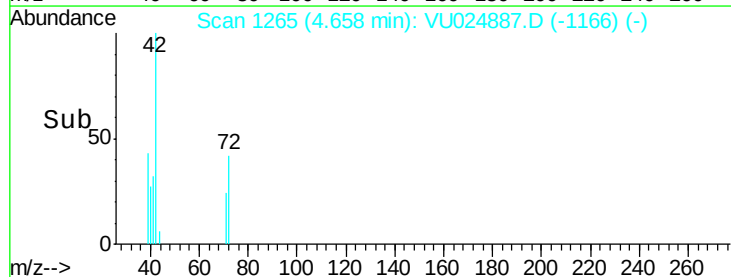
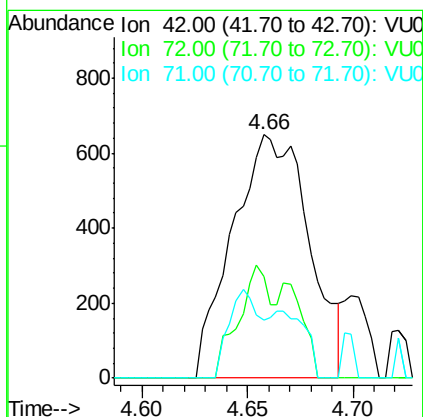
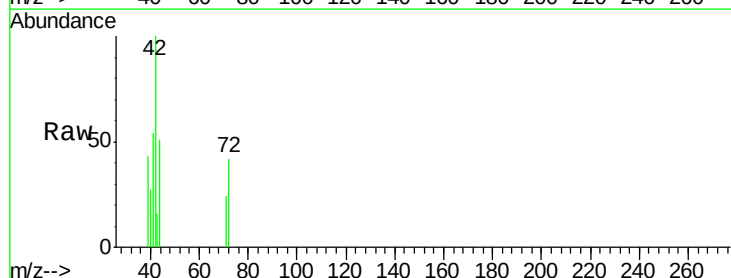
Instrument :
MSVOA_U
ClientSampleId :

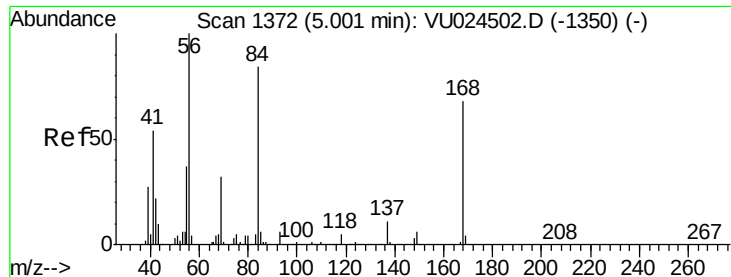
Tot Ion: 84 Resp: 923
Ion Ratio Lower Upper
84 100
49 153.7 103.8 155.8
51 32.6 32.0 48.0
86 58.7 51.6 77.4



#29
Tetrahydrofuran
Concen: 1.04 ug/l
RT: 4.66 min Scan# 1265
Delta R.T. 0.02 min
Lab File: VU024887.D
Acq: 25 Jun 2018 20:11

Tgt Ion: 42 Resp: 1636
Ion Ratio Lower Upper
42 100
72 18.4 34.5 51.7#
71 14.5 32.2 48.4#

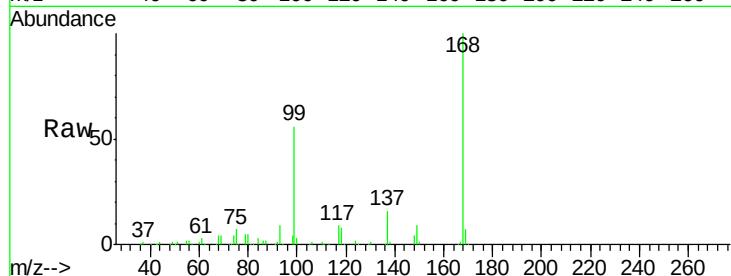




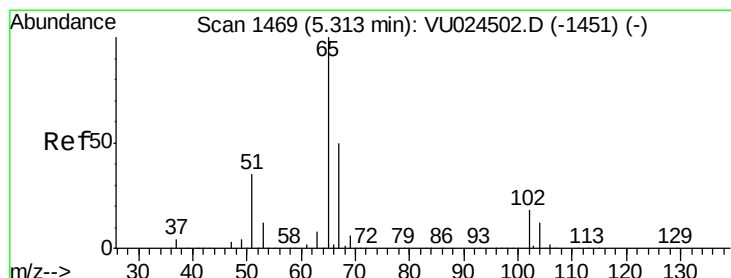
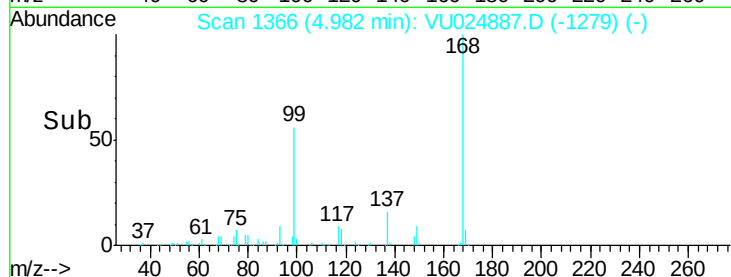
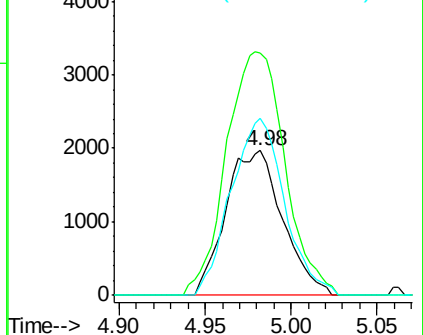
#31
Cyclohexane
Concen: Below Cal
RT: 4.98 min Scan# 1366
Delta R.T. -0.02 min
Lab File: VU024887.D
Acq: 25 Jun 2018 20:11

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 56 Resp: 4544
Ion Ratio Lower Upper
56 100
69 168.0 24.8 37.2#
84 122.8 65.2 97.8#

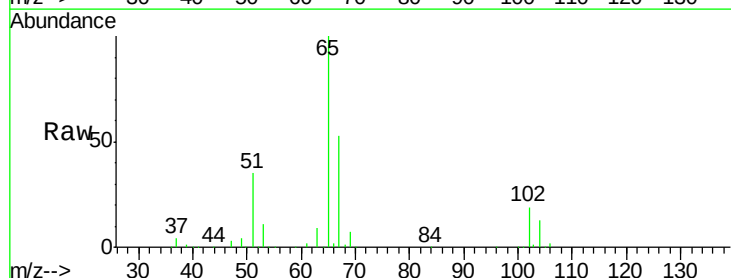


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

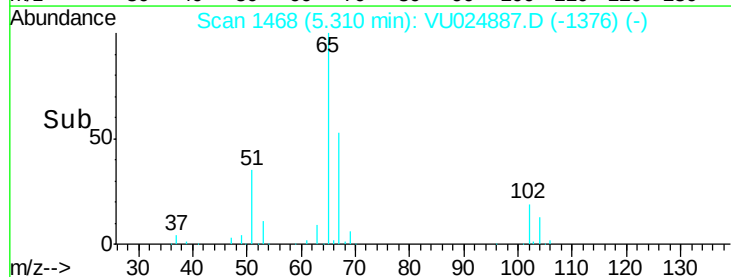
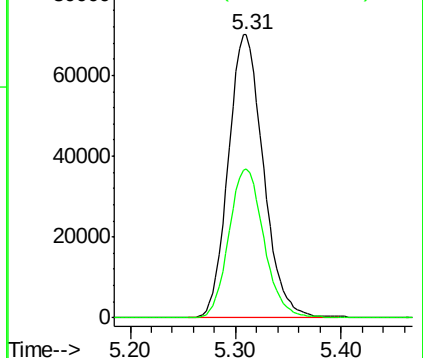


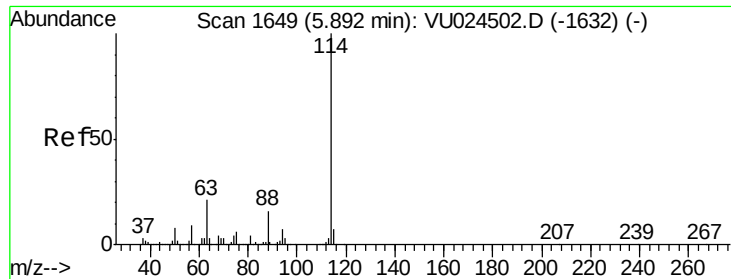
#33
1,2-Dichloroethane-d4
Concen: 45.74 ug/l
RT: 5.31 min Scan# 1468
Delta R.T. -0.00 min
Lab File: VU024887.D
Acq: 25 Jun 2018 20:11

Tgt Ion: 65 Resp: 161569
Ion Ratio Lower Upper
65 100
67 52.4 0.0 107.0



Abundance Ion 64.90 (64.60 to 65.60): VU0
Ion 66.90 (66.60 to 67.60): VU0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.89 min Scan# 1647

Delta R.T. -0.01 min

Lab File: VU024887.D

Acq: 25 Jun 2018 20:11

Instrument :

MSVOA_U

ClientSampleId :

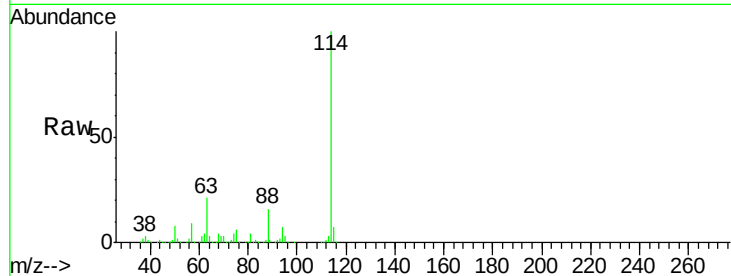
Tot Ion:114 Resp: 333851

Ion Ratio Lower Upper

114 100

63 20.5 0.0 45.4

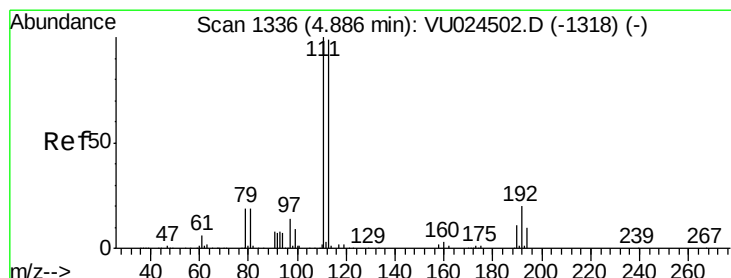
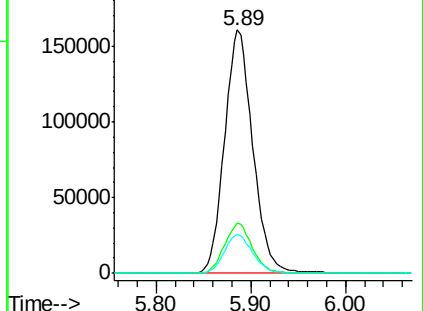
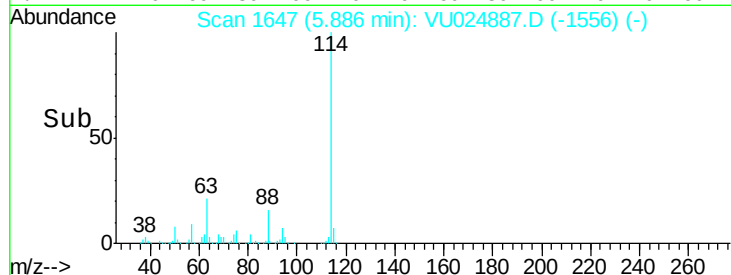
88 16.0 0.0 31.0



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: 46.72 ug/l

RT: 4.88 min Scan# 1335

Delta R.T. -0.00 min

Lab File: VU024887.D

Acq: 25 Jun 2018 20:11

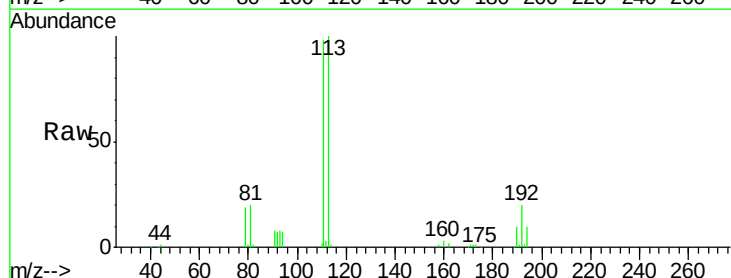
Tgt Ion:113 Resp: 129441

Ion Ratio Lower Upper

113 100

111 101.6 82.2 123.4

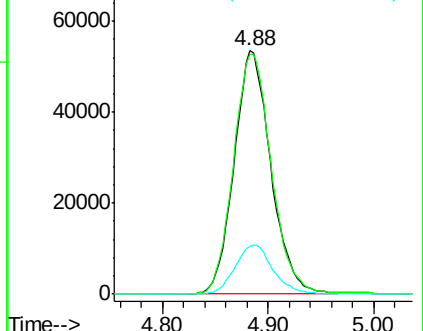
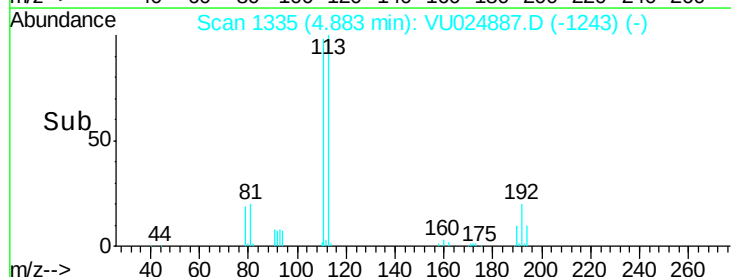
192 20.7 16.2 24.4

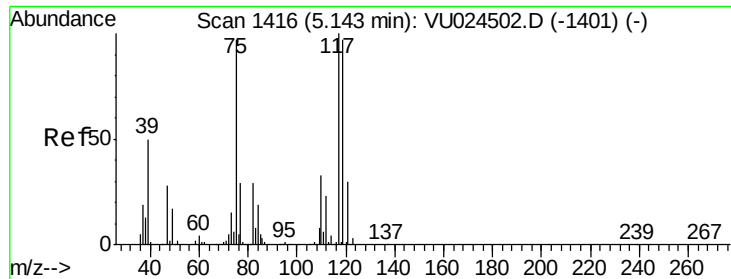


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

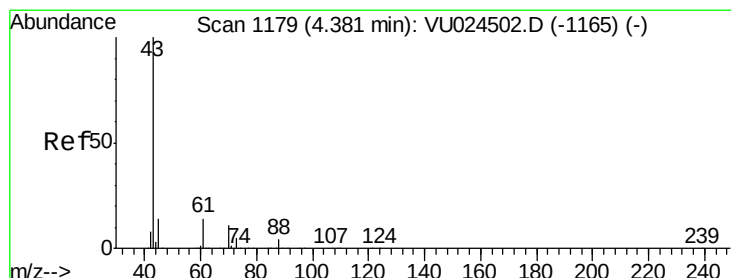
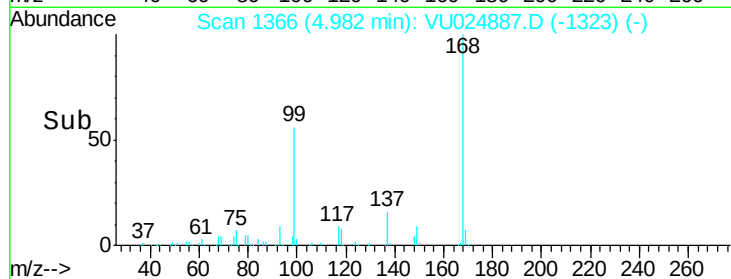
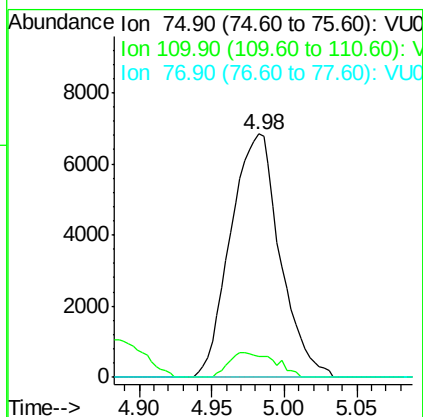
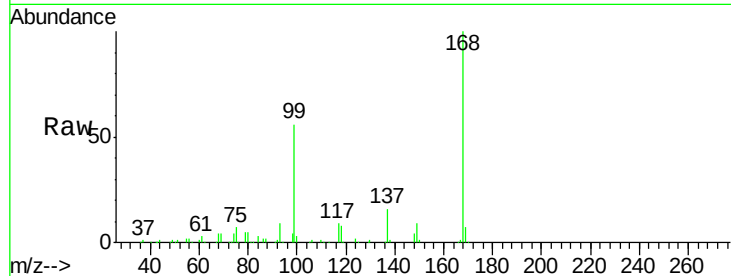




#36
 1,1-Dichloropropene
 Concen: 4.13 ug/l
 RT: 4.98 min Scan# 1366
 Delta R.T. -0.16 min
 Lab File: VU024887.D
 Acq: 25 Jun 2018 20:11

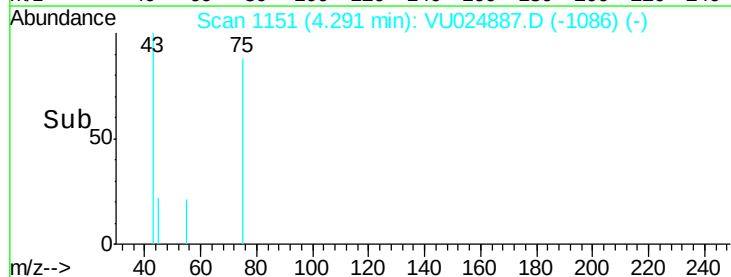
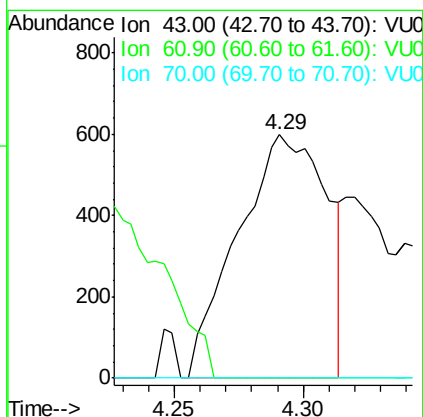
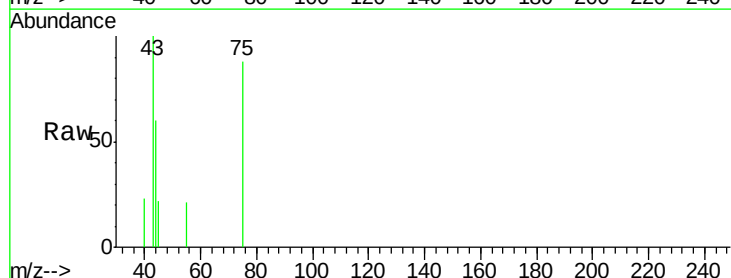
Instrument :
 MSVOA_U
 ClientSampled :

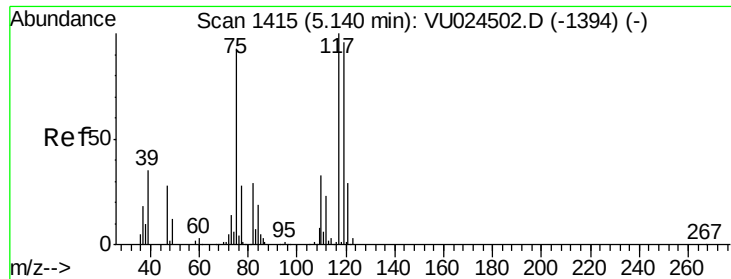
Tot Ion: 75 Resp: 16220
 Ion Ratio Lower Upper
 75 100
 110 9.5 17.0 50.9#
 77 0.0 24.2 36.4#



#37
 Ethyl Acetate
 Concen: 0.34 ug/l
 RT: 4.29 min Scan# 1151
 Delta R.T. -0.09 min
 Lab File: VU024887.D
 Acq: 25 Jun 2018 20:11

Tgt Ion: 43 Resp: 1442
 Ion Ratio Lower Upper
 43 100
 61 0.0 10.5 15.7#
 70 0.0 7.4 11.2#





#38

Carbon Tetrachloride

Concen: 4.73 ug/l

RT: 4.98 min Scan# 1365

Delta R.T. -0.16 min

Lab File: VU024887.D

Acq: 25 Jun 2018 20:11

Instrument :

MSVOA_U

ClientSampled :

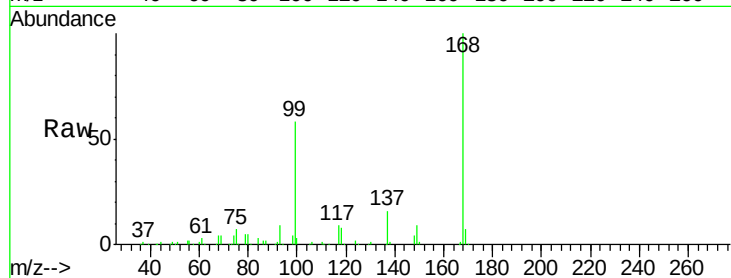
Tot Ion:117 Resp: 20421

Ion Ratio Lower Upper

117 100

119 4.1 76.1 114.1#

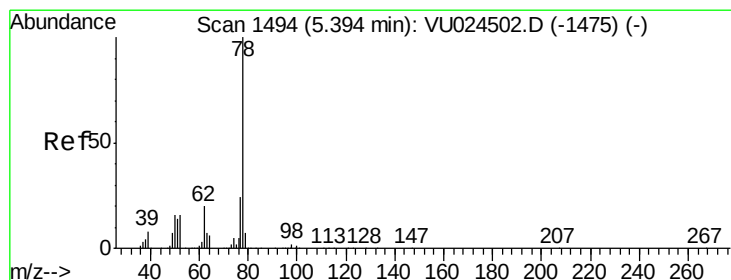
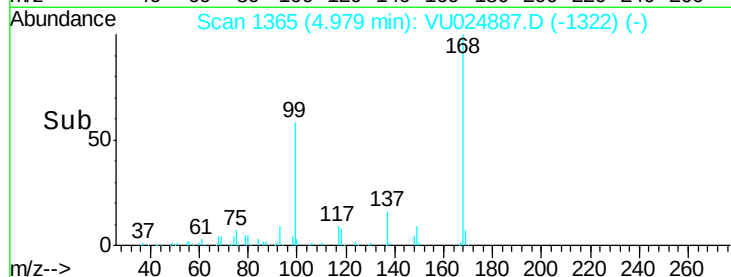
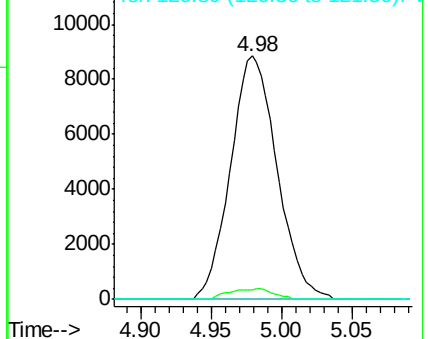
121 0.0 23.7 35.5#



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



#40

Benzene

Concen: 0.20 ug/l

RT: 5.39 min Scan# 1493

Delta R.T. -0.00 min

Lab File: VU024887.D

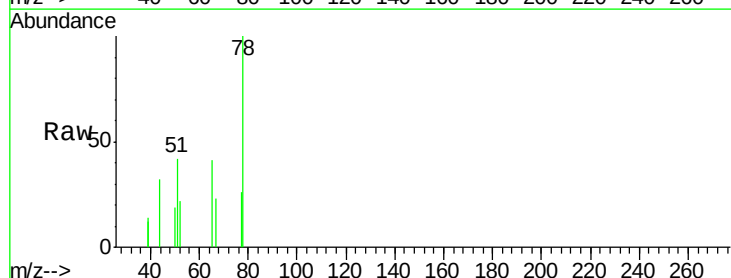
Acq: 25 Jun 2018 20:11

Tgt Ion: 78 Resp: 2250

Ion Ratio Lower Upper

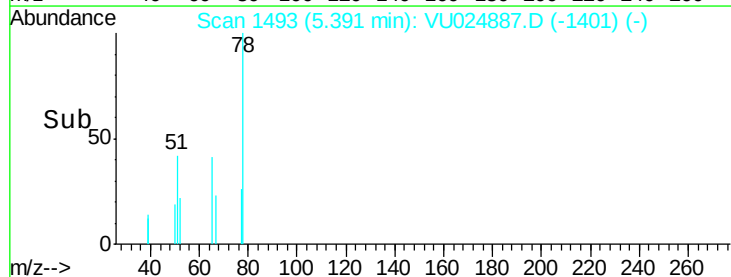
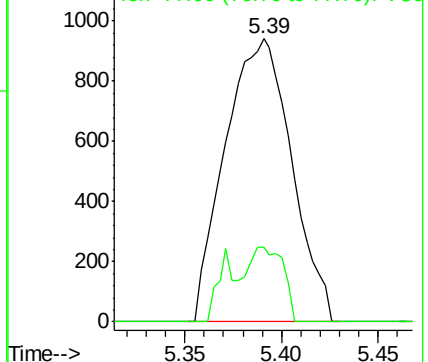
78 100

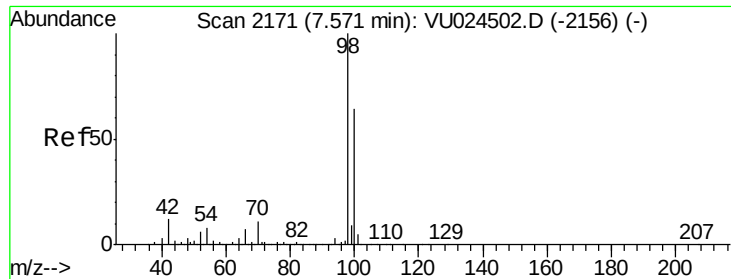
77 26.4 19.2 28.8



Abundance Ion 78.00 (77.70 to 78.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

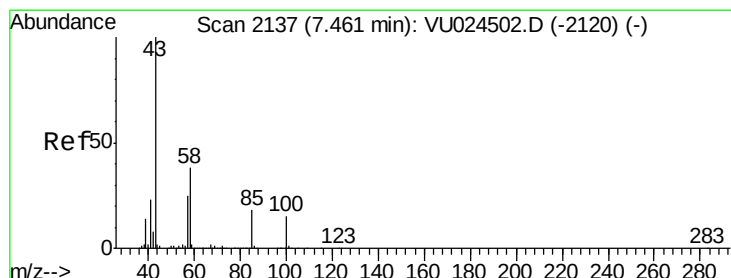
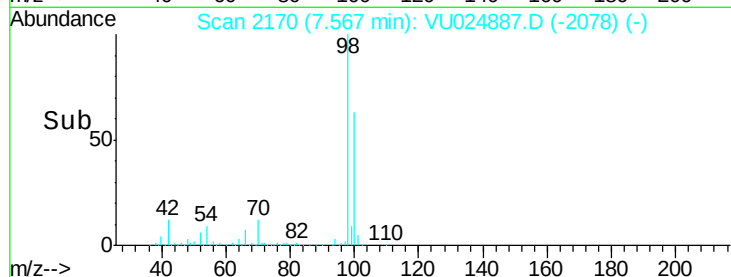
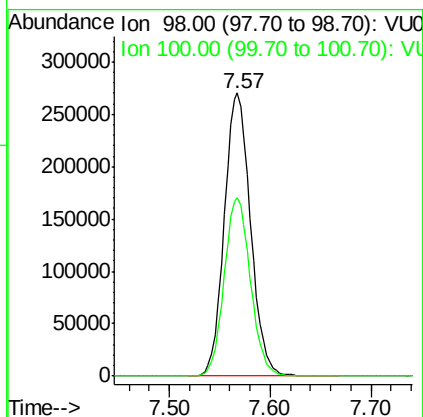
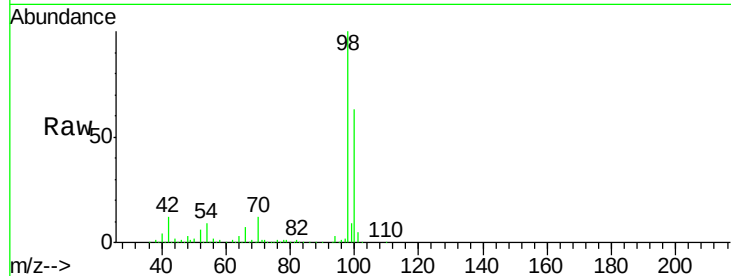




#50
Toluene-d8
Concen: 48.61 ug/l
RT: 7.57 min Scan# 2170
Delta R.T. -0.00 min
Lab File: VU024887.D
Acq: 25 Jun 2018 20:11

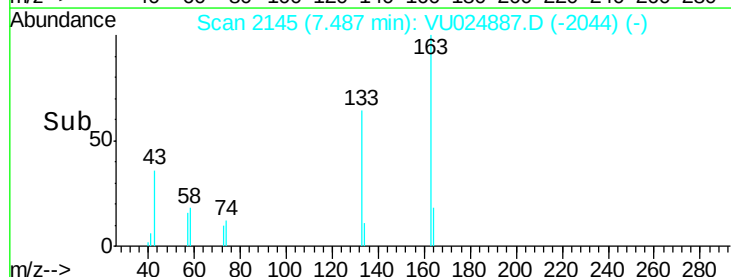
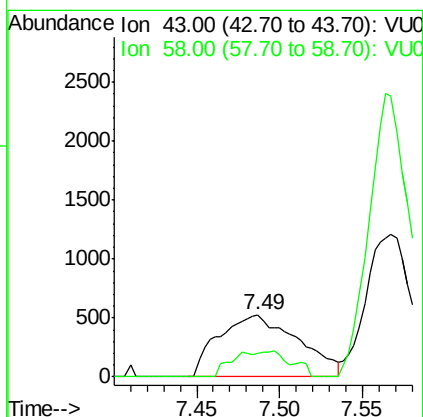
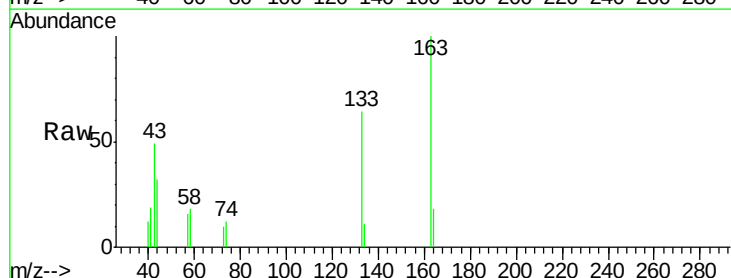
Instrument :
MSVOA_U
ClientSampleId :

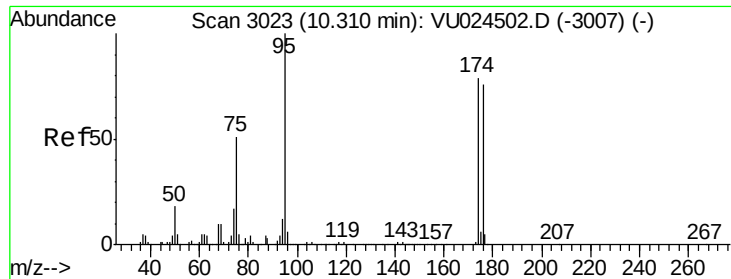
Tot Ion: 98 Resp: 491276
Ion Ratio Lower Upper
98 100
100 63.0 51.1 76.7



#51
4-Methyl-2-Pentanone
Concen: 0.38 ug/l
RT: 7.49 min Scan# 2145
Delta R.T. 0.03 min
Lab File: VU024887.D
Acq: 25 Jun 2018 20:11

Tgt Ion: 43 Resp: 1766
Ion Ratio Lower Upper
43 100
58 12.5 30.0 45.0#





#62

4-Bromofluorobenzene

Concen: 50.95 ug/l

RT: 10.32 min Scan# 3025

Delta R.T. 0.01 min

Lab File: VU024887.D

Acq: 25 Jun 2018 20:11

Instrument :

MSVOA_U

ClientSampleId :

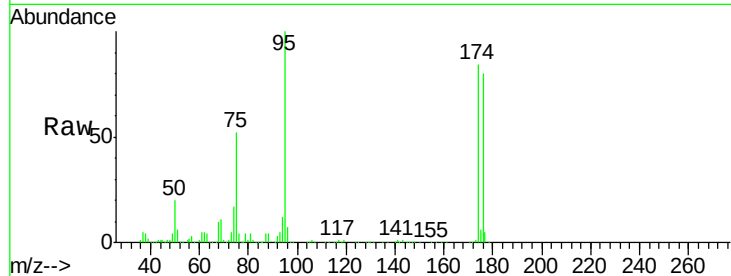
Tot Ion: 95 Resp: 204456

Ion Ratio Lower Upper

95 100

174 84.1 0.0 165.8

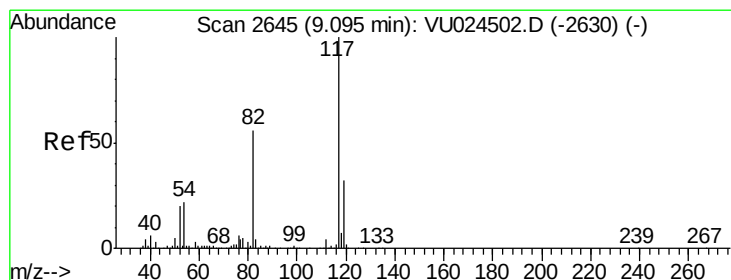
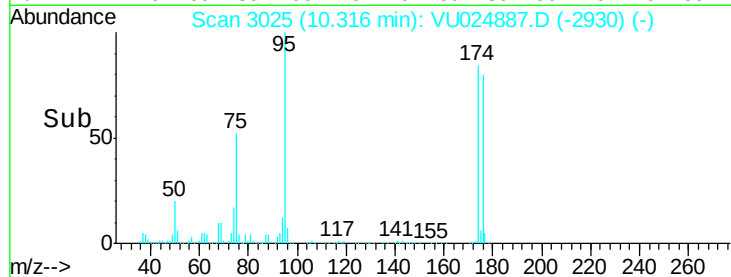
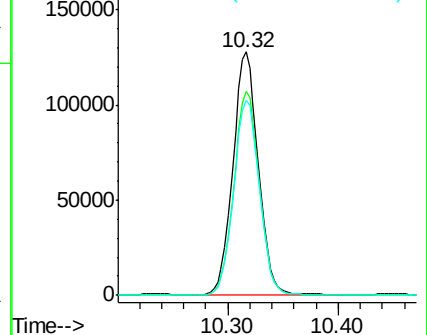
176 81.3 0.0 159.4



Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): VU0

Ion 175.80 (175.50 to 176.50): VU0



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 9.09 min Scan# 2645

Delta R.T. 0.00 min

Lab File: VU024887.D

Acq: 25 Jun 2018 20:11

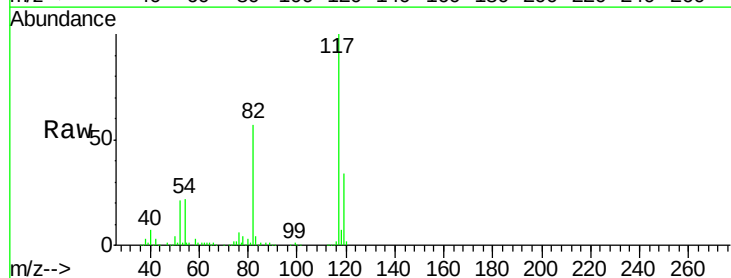
Tgt Ion: 117 Resp: 328645

Ion Ratio Lower Upper

117 100

82 56.8 44.3 66.5

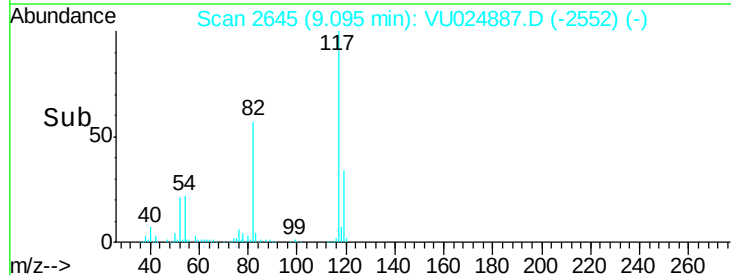
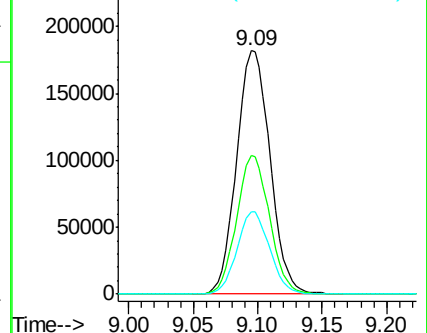
119 33.7 25.4 38.2

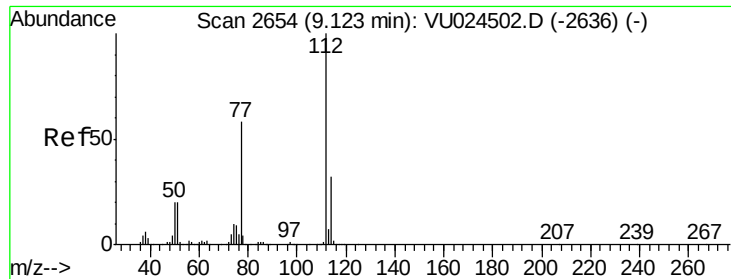


Abundance Ion 116.90 (116.60 to 117.60): VU0

Ion 82.00 (81.70 to 82.70): VU0

Ion 118.90 (118.60 to 119.60): VU0

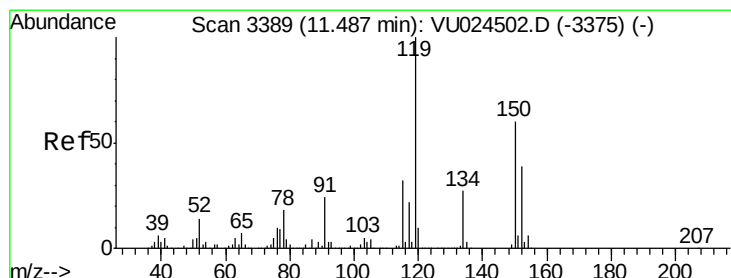
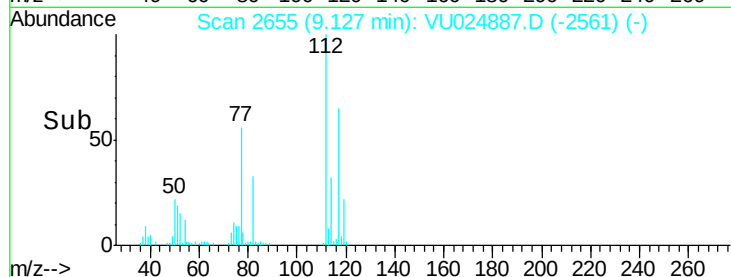
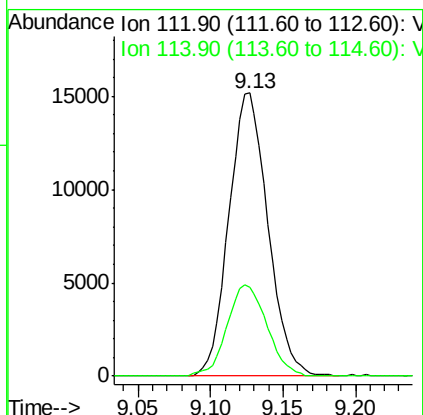
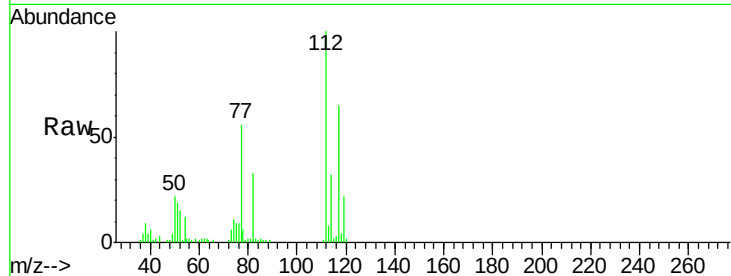




#65
Chlorobenzene
Concen: 3.38 ug/l
RT: 9.13 min Scan# 2655
Delta R.T. 0.00 min
Lab File: VU024887.D
Acq: 25 Jun 2018 20:11

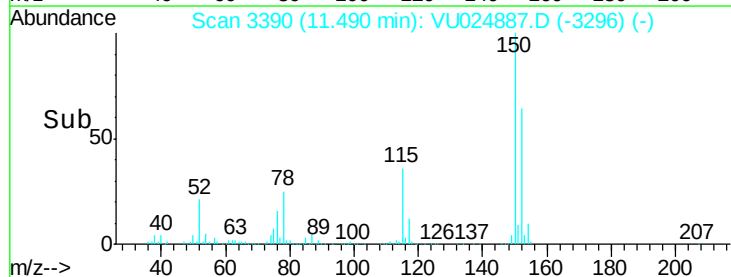
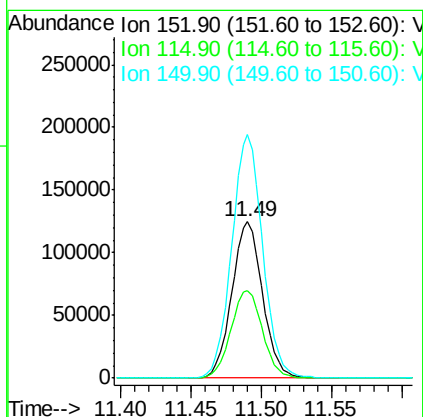
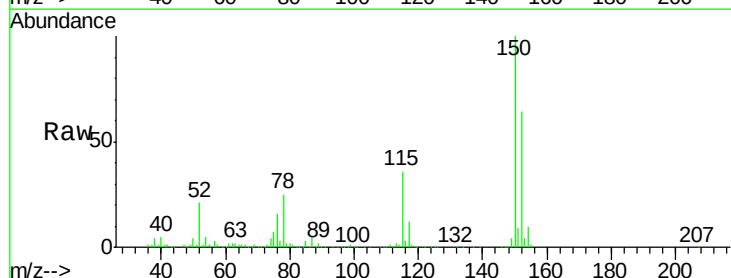
Instrument :
MSVOA_U
ClientSampleId :

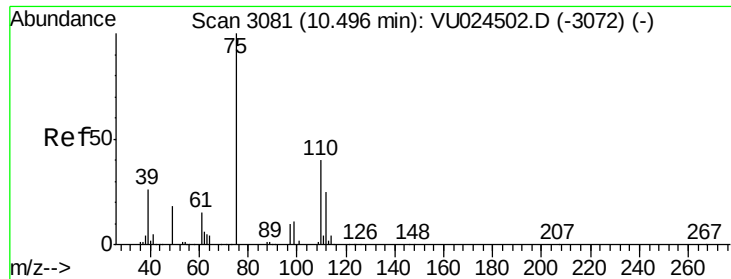
Tot Ion:112 Resp: 28404
Ion Ratio Lower Upper
112 100
114 31.5 25.6 38.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 11.49 min Scan# 3390
Delta R.T. 0.00 min
Lab File: VU024887.D
Acq: 25 Jun 2018 20:11

Tgt Ion:152 Resp: 190287
Ion Ratio Lower Upper
152 100
115 57.4 43.0 129.0
150 156.7 0.0 354.0

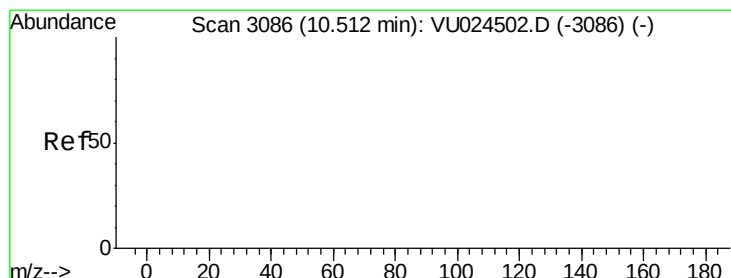
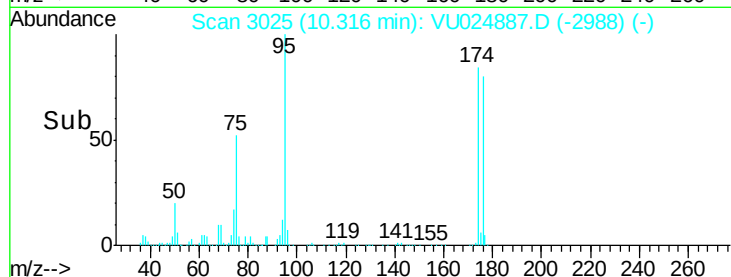
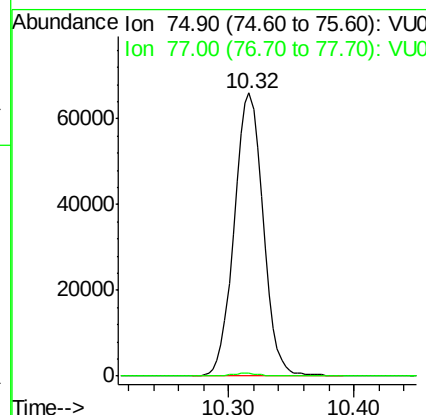
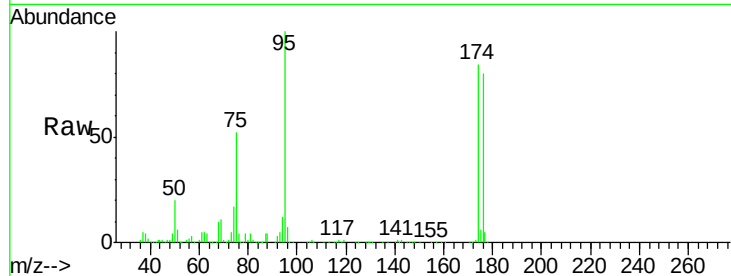




#76
 1,2,3-Trichloropropane
 Concen: 25.24 ug/l
 RT: 10.32 min Scan# 3025
 Delta R.T. -0.18 min
 Lab File: VU024887.D
 Acq: 25 Jun 2018 20:11

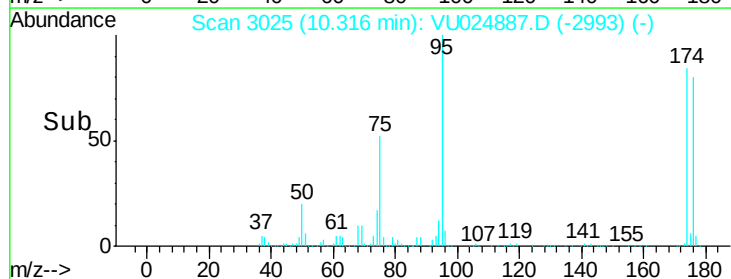
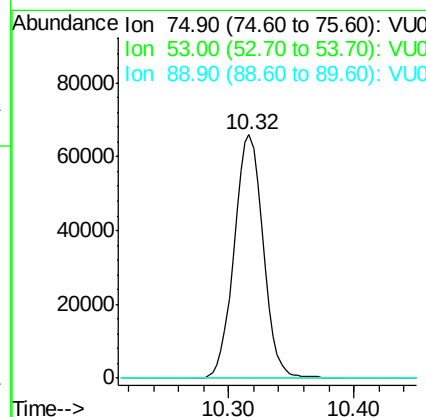
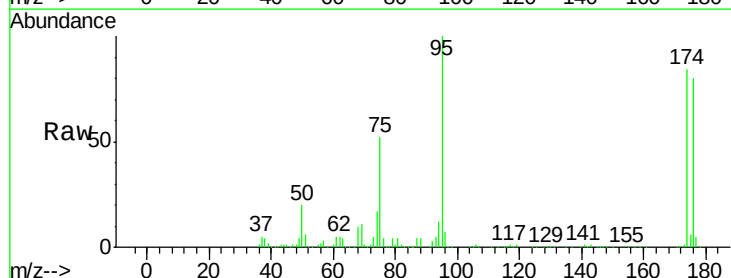
Instrument :
 MSVOA_U
 ClientSampleId :

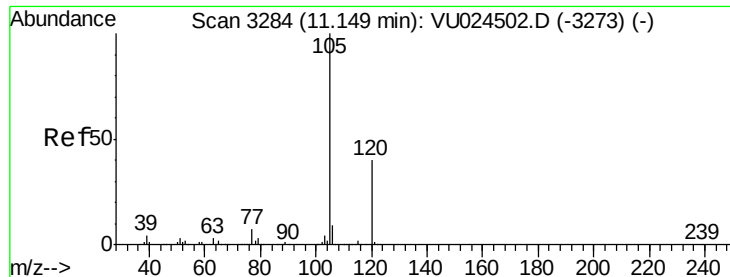
Tot Ion: 75 Resp: 105726
 Ion Ratio Lower Upper
 75 100
 77 1.0 20.9 62.7#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 58.41 ug/l
 RT: 10.32 min Scan# 3025
 Delta R.T. -0.20 min
 Lab File: VU024887.D
 Acq: 25 Jun 2018 20:11

Tgt Ion: 75 Resp: 105726
 Ion Ratio Lower Upper
 75 100
 53 0.0 0.0 0.0#
 89 0.0 0.0 0.0

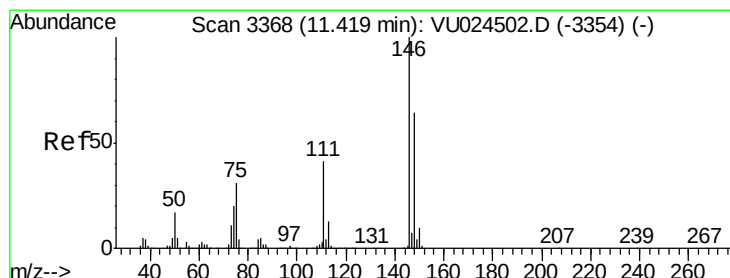
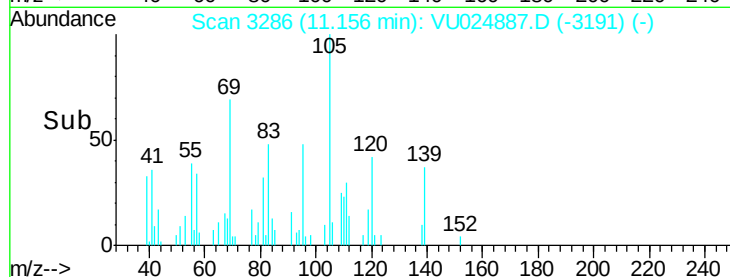
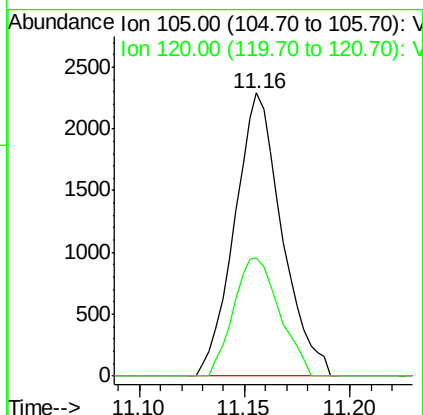
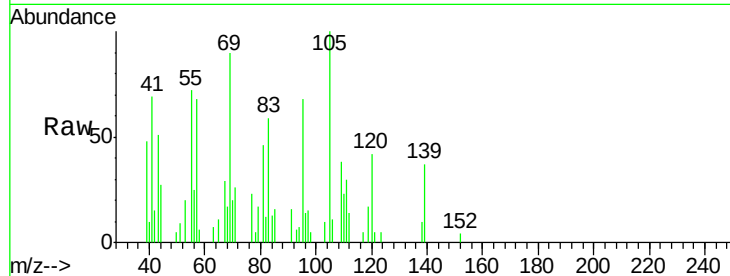




#84
 1,2,4-Trimethylbenzene
 Concen: 0.28 ug/l
 RT: 11.16 min Scan# 3286
 Delta R.T. 0.01 min
 Lab File: VU024887.D
 Acq: 25 Jun 2018 20:11

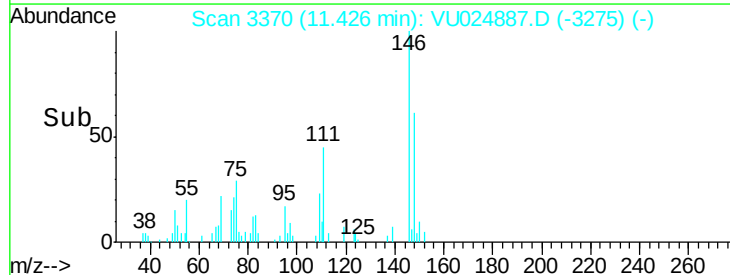
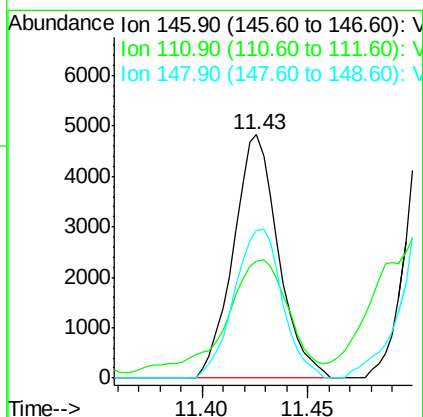
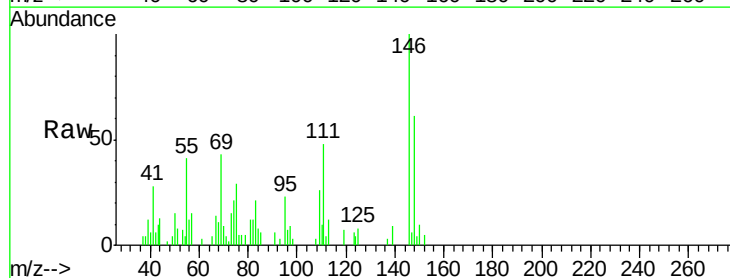
Instrument :
 MSVOA_U
 ClientSampleId :

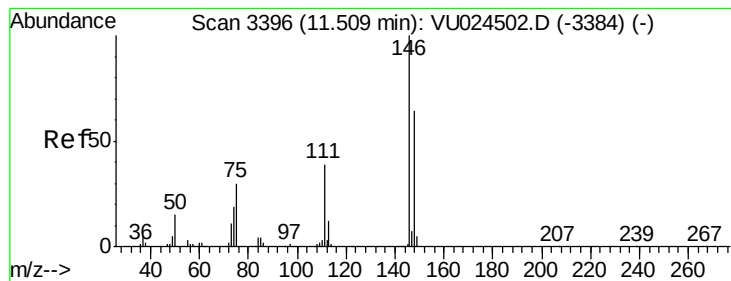
Tot Ion:105 Resp: 3568
 Ion Ratio Lower Upper
 105 100
 120 40.4 22.6 67.8



#87
 1,3-Dichlorobenzene
 Concen: 1.05 ug/l
 RT: 11.43 min Scan# 3370
 Delta R.T. 0.01 min
 Lab File: VU024887.D
 Acq: 25 Jun 2018 20:11

Tgt Ion:146 Resp: 7155
 Ion Ratio Lower Upper
 146 100
 111 64.3 20.0 60.0#
 148 65.5 32.1 96.5





#88

1,4-Dichlorobenzene

Concen: 2.22 ug/l

RT: 11.51 min Scan# 3397

Delta R.T. 0.00 min

Lab File: VU024887.D

Acq: 25 Jun 2018 20:11

Instrument :

MSVOA_U

ClientSampleId :

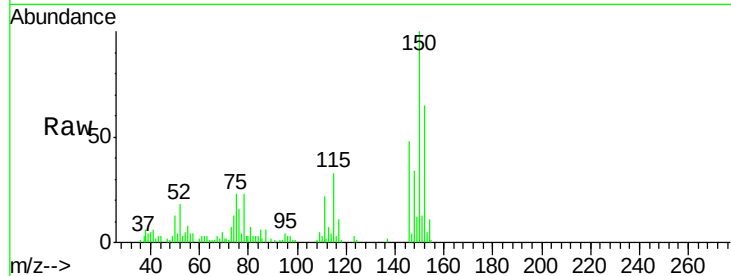
Tot Ion:146 Resp: 15272

Ion Ratio Lower Upper

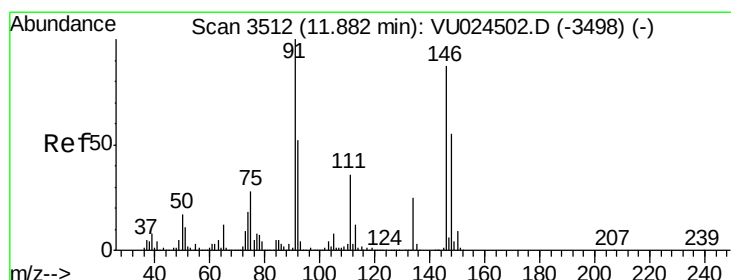
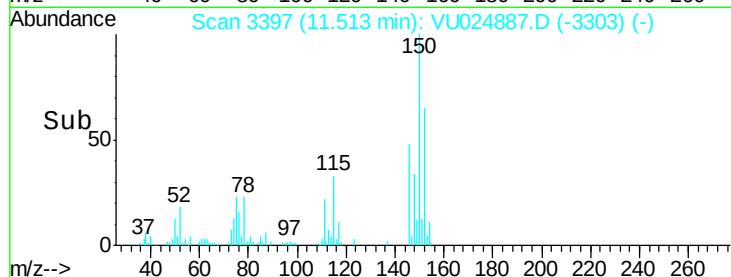
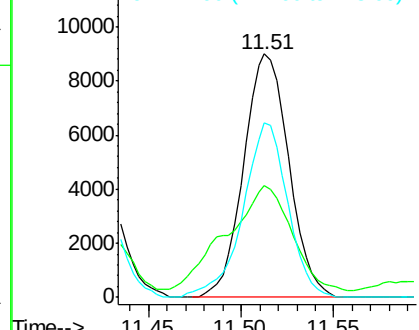
146 100

111 66.0 19.5 58.5#

148 71.0 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



#91

1,2-Dichlorobenzene

Concen: 14.07 ug/l

RT: 11.89 min Scan# 3513

Delta R.T. 0.00 min

Lab File: VU024887.D

Acq: 25 Jun 2018 20:11

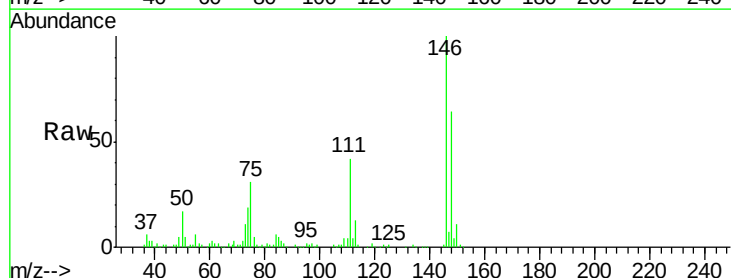
Tgt Ion:146 Resp: 96292

Ion Ratio Lower Upper

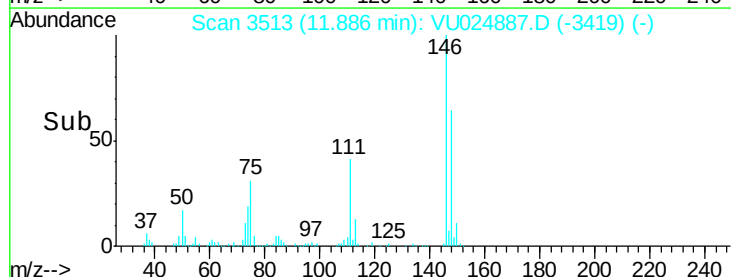
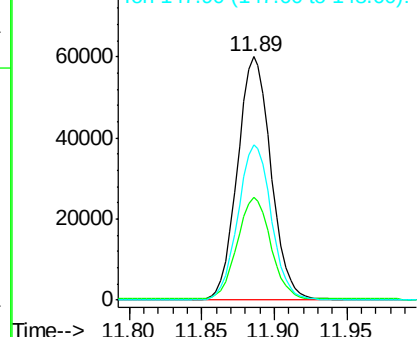
146 100

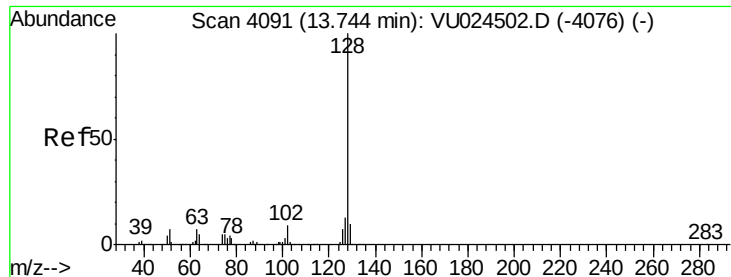
111 41.3 20.5 61.6

148 63.6 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

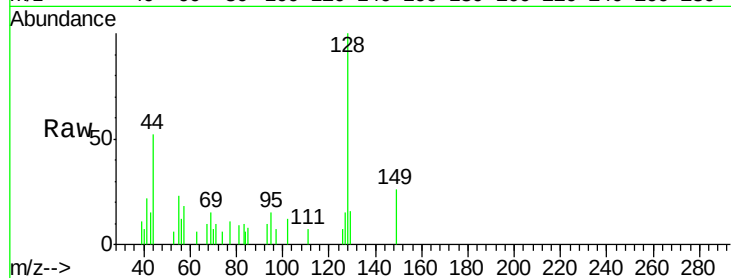




#95
Naphthalene
Concen: 0.92 ug/l
RT: 13.75 min Scan# 4094
Delta R.T. 0.01 min
Lab File: VU024887.D
Acq: 25 Jun 2018 20:11

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	8.6	10.6	16.0#
129	11.6	8.6	12.8



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

