

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU062518\
 Data File : VU024879.D
 Acq On : 25 Jun 2018 16:56
 Operator : MD/SY
 Sample : J3617-01ME
 Misc : 5.49g/5.0mL/100uL/5.0mL/MSVOA_U/MEOH
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jun 26 05:15:59 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	209034	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	320007	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	310701	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	185740	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.31	65	157962	46.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.58%	
35) Dibromofluoromethane	4.89	113	125264	47.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.34%	
50) Toluene-d8	7.57	98	468313	48.34	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.68%	
62) 4-Bromofluorobenzene	10.32	95	195986	50.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.90%	

Target Compounds

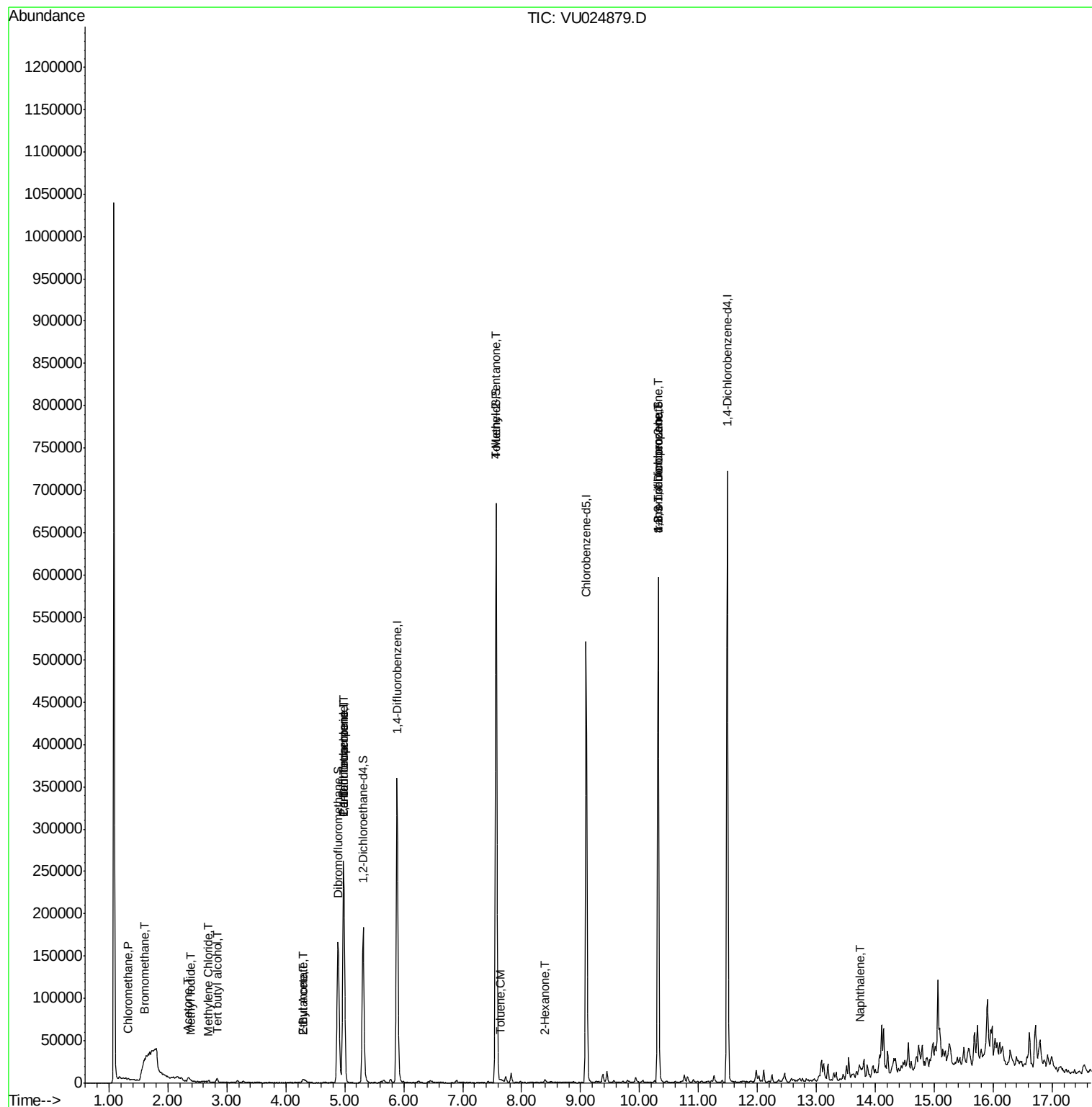
						Qvalue
3) Chloromethane	1.32	50	1351	0.51	ug/l	90
5) Bromomethane	1.60	94	1044	0.78	ug/l	93
6) Chloroethane	1.65	64	85	Below Cal	#	3
8) Diethyl Ether	1.96	74	41	Below Cal	#	1
10) Methyl Iodide	2.39	142	516	5.50	ug/l	# 73
11) Tert butyl alcohol	2.83	59	2517	3.03	ug/l	# 72
16) Acetone	2.35	43	8192	4.47	ug/l	95
20) Methylene Chloride	2.68	84	1012	0.35	ug/l	# 80
25) 2-Butanone	4.30	43	8496	3.45	ug/l	98
31) Cyclohexane	4.97	56	4456	Below Cal	#	5
36) 1,1-Dichloropropene	4.98	75	15408	4.10	ug/l	# 51
37) Ethyl Acetate	4.30	43	8496	2.07	ug/l	# 70
38) Carbon Tetrachloride	4.98	117	19998	4.84	ug/l	# 16
51) 4-Methyl-2-Pentanone	7.56	43	2510	0.56	ug/l	# 1
52) Toluene	7.64	92	1731	0.25	ug/l	91
59) 2-Hexanone	8.40	43	3397	0.93	ug/l	89
76) 1,2,3-Trichloropropane	10.32	75	99724	24.39	ug/l	# 36
81) trans-1,4-Dichloro-2-buten	10.32	75	99724	56.44	ug/l	# 100
95) Naphthalene	13.75	128	2749	0.88	ug/l	# 87

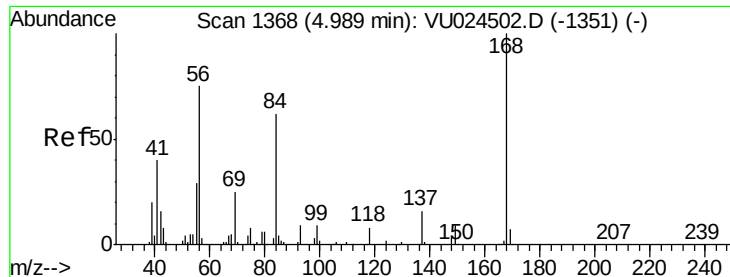
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.98 min Scan# 1366

Delta R.T. -0.01 min

Lab File: VU024879.D

Acq: 25 Jun 2018 16:56

Instrument :

MSVOA_U

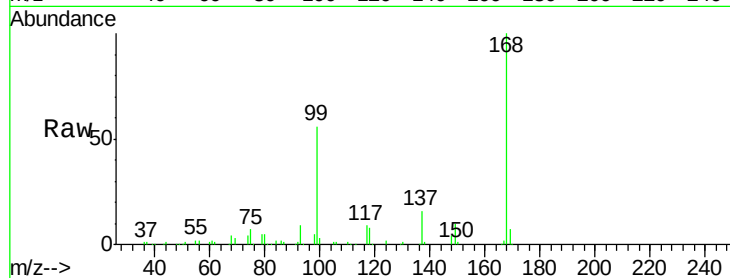
ClientSampleId :

Tot Ion:168 Resp: 209034

Ion Ratio Lower Upper

168 100

99 56.1 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

80000

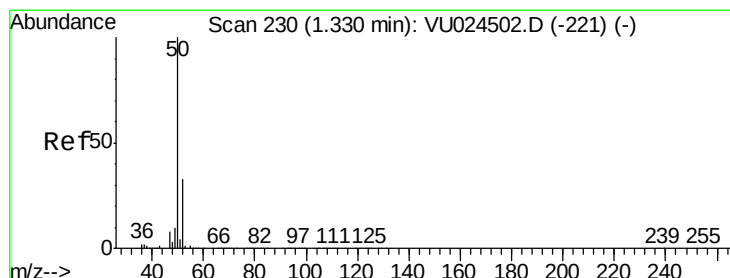
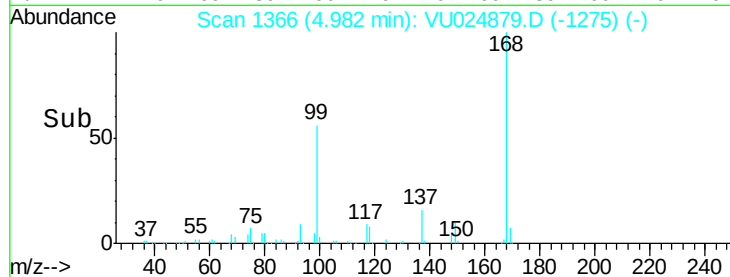
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.51 ug/l

RT: 1.32 min Scan# 227

Delta R.T. -0.01 min

Lab File: VU024879.D

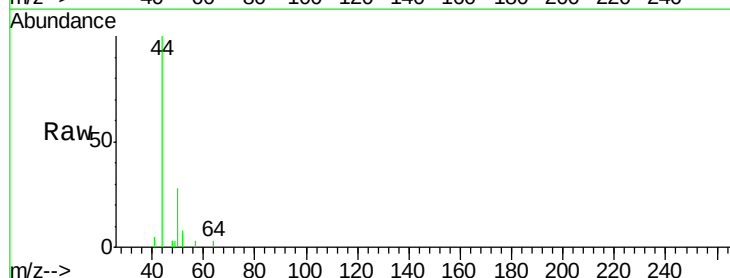
Acq: 25 Jun 2018 16:56

Tgt Ion: 50 Resp: 1351

Ion Ratio Lower Upper

50 100

52 27.4 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

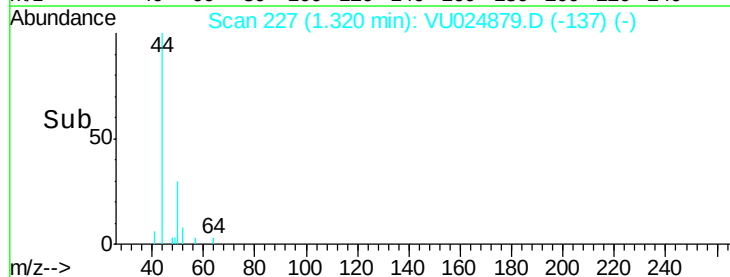
600

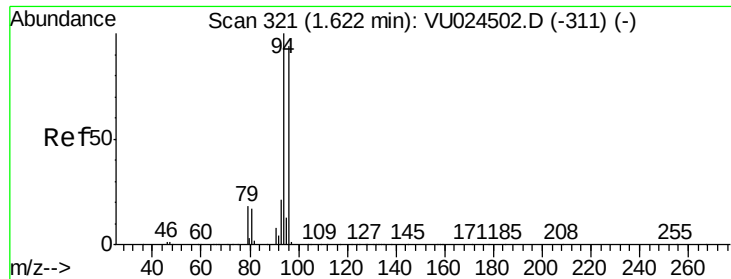
400

200

0

Time-->





#5

Bromomethane

Concen: 0.78 ug/l

RT: 1.60 min Scan# 315

Delta R.T. -0.02 min

Lab File: VU024879.D

Acq: 25 Jun 2018 16:56

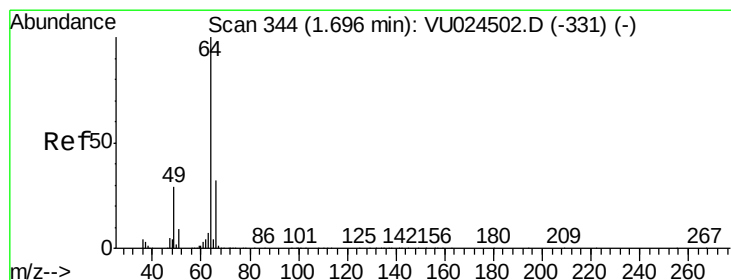
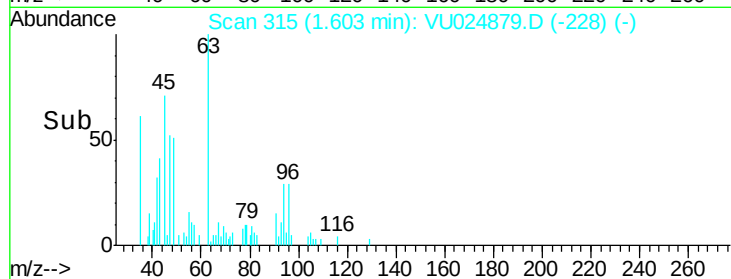
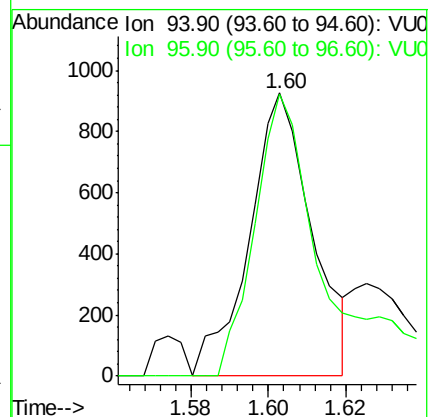
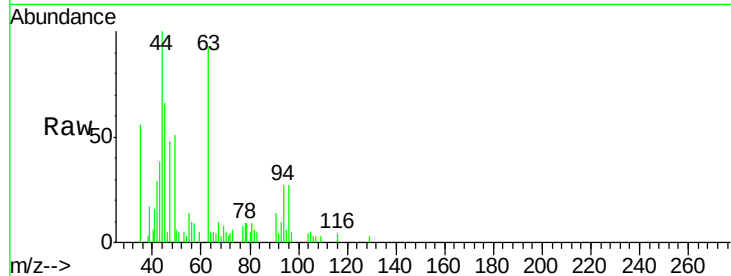
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 94 Resp: 1044

Ion Ratio Lower Upper

94 100

96 99.8 74.5 111.7



#6

Chloroethane

Concen: Below Cal

RT: 1.65 min Scan# 331

Delta R.T. -0.04 min

Lab File: VU024879.D

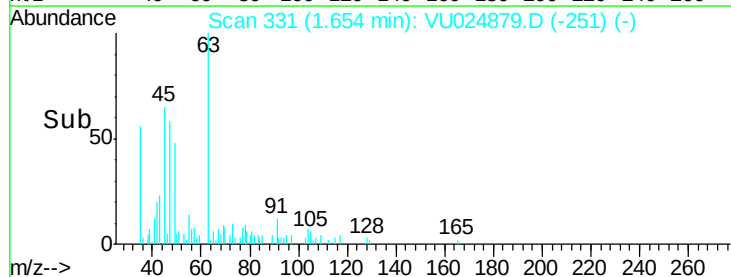
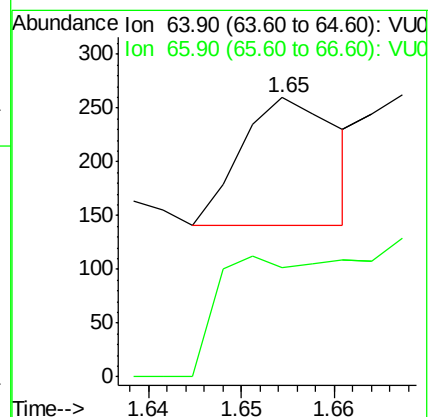
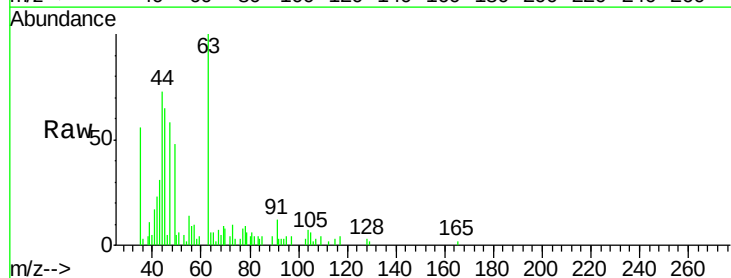
Acq: 25 Jun 2018 16:56

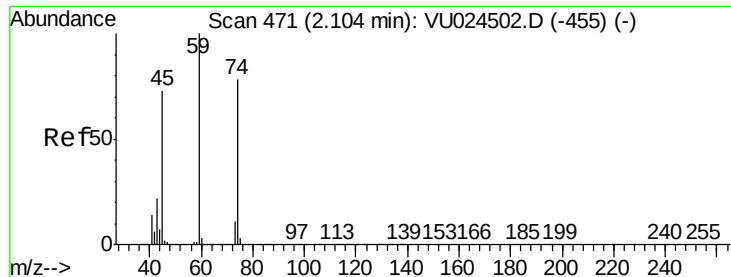
Tgt Ion: 64 Resp: 85

Ion Ratio Lower Upper

64 100

66 85.7 25.5 38.3#





#8

Diethyl Ether

Concen: Below Cal

RT: 1.96 min Scan# 426

Delta R.T. -0.14 min

Lab File: VU024879.D

Acq: 25 Jun 2018 16:56

Instrument :

MSVOA_U

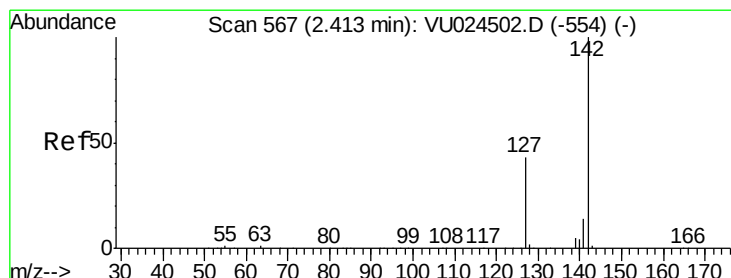
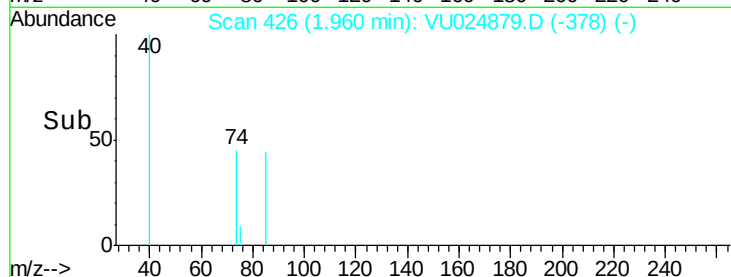
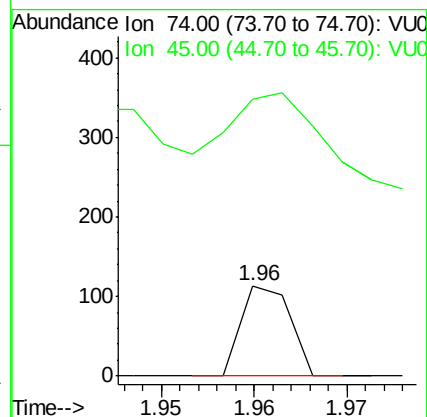
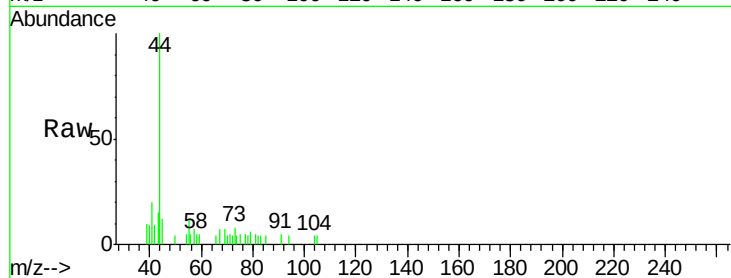
ClientSampleId :

Tot Ion: 74 Resp: 41

Ion Ratio Lower Upper

74 100

45 0.0 55.0 165.0#



#10

Methyl Iodide

Concen: 5.50 ug/l

RT: 2.39 min Scan# 559

Delta R.T. -0.03 min

Lab File: VU024879.D

Acq: 25 Jun 2018 16:56

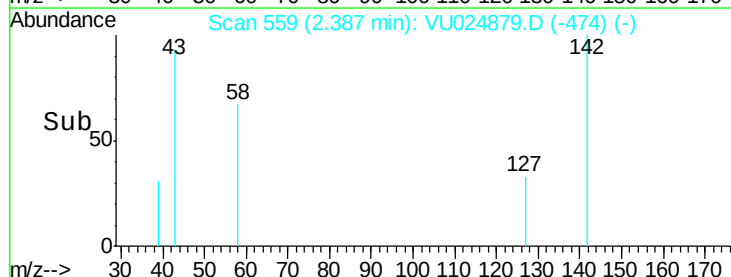
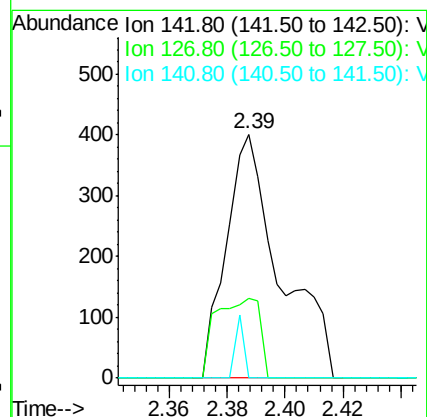
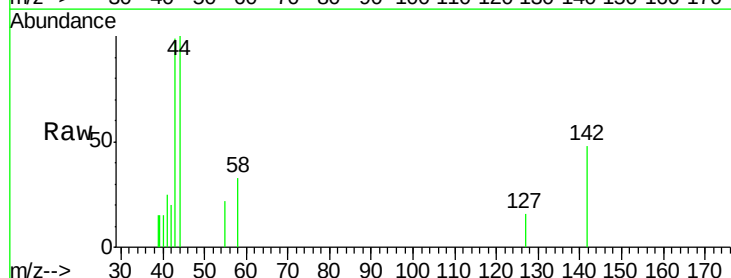
Tgt Ion: 142 Resp: 516

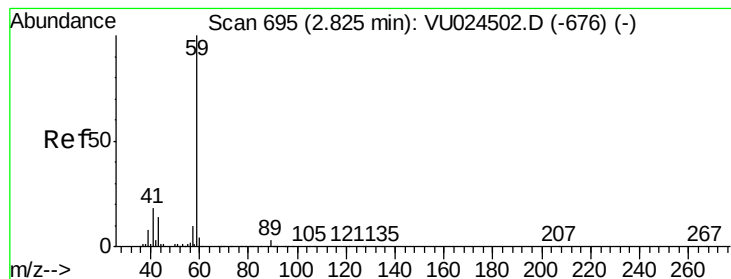
Ion Ratio Lower Upper

142 100

127 26.7 35.6 53.4#

141 3.9 11.7 17.5#





#11

Tert butyl alcohol

Concen: 3.03 ug/l

RT: 2.83 min Scan# 697

Delta R.T. 0.01 min

Lab File: VU024879.D

Acq: 25 Jun 2018 16:56

Instrument :

MSVOA_U

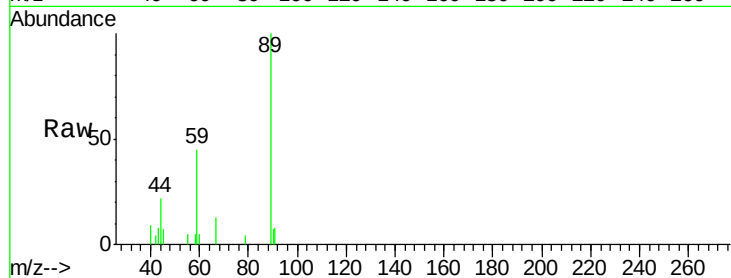
ClientSampled :

Tot Ion: 59 Resp: 2517

Ion Ratio Lower Upper

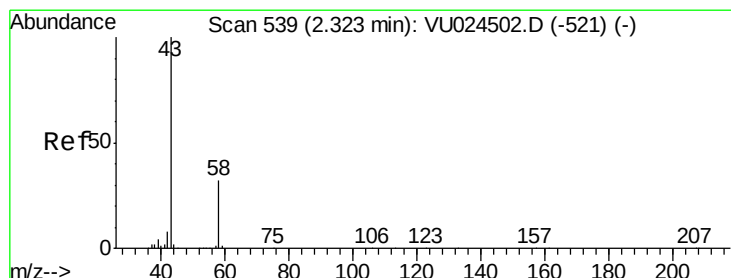
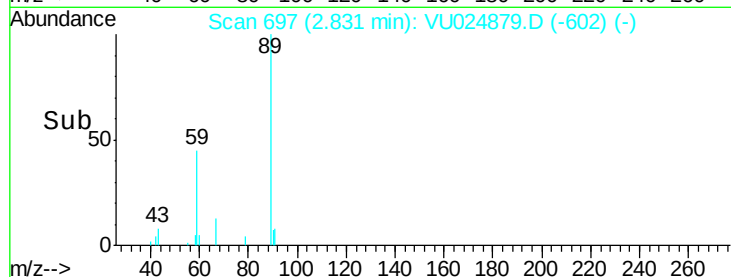
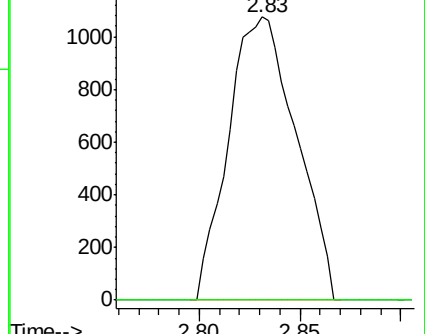
59 100

57 0.0 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 57.00 (56.70 to 57.70): VU0



#16

Acetone

Concen: 4.47 ug/l

RT: 2.35 min Scan# 547

Delta R.T. 0.03 min

Lab File: VU024879.D

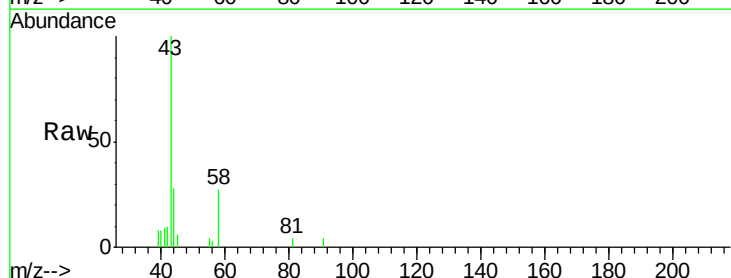
Acq: 25 Jun 2018 16:56

Tgt Ion: 43 Resp: 8192

Ion Ratio Lower Upper

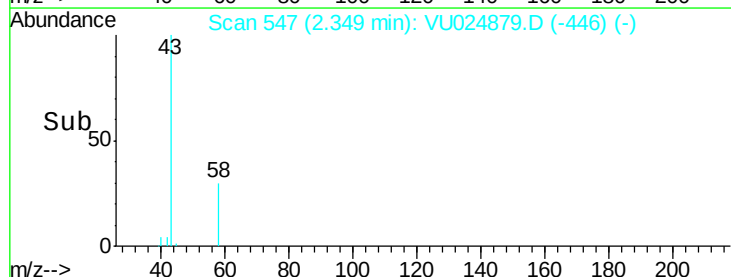
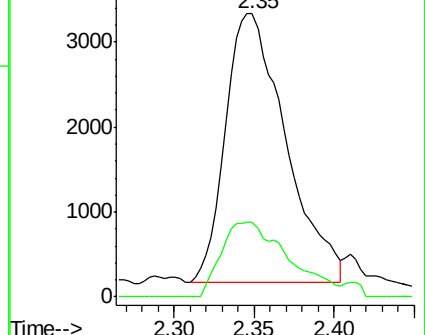
43 100

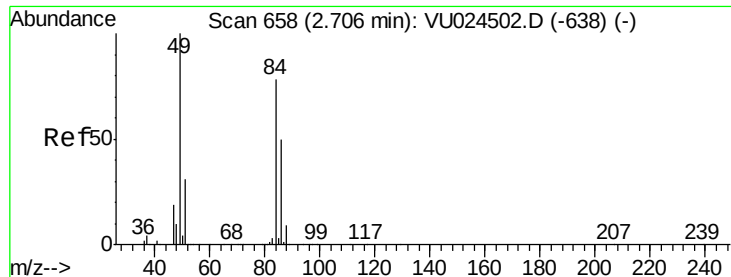
58 27.9 24.4 36.6



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

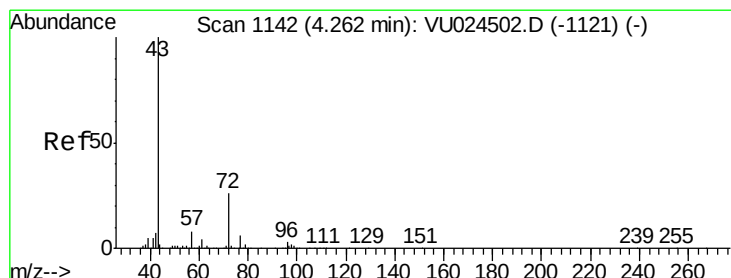
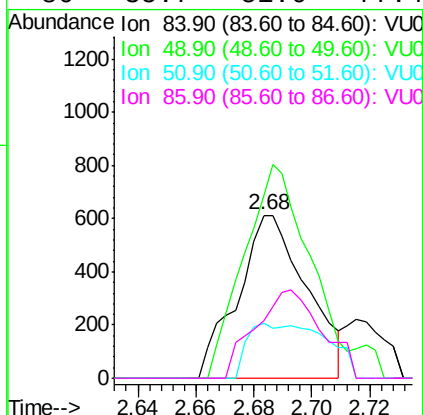
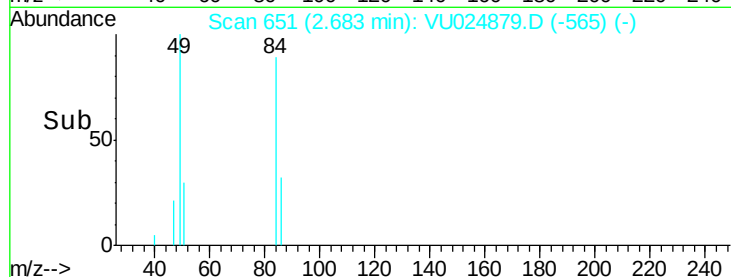
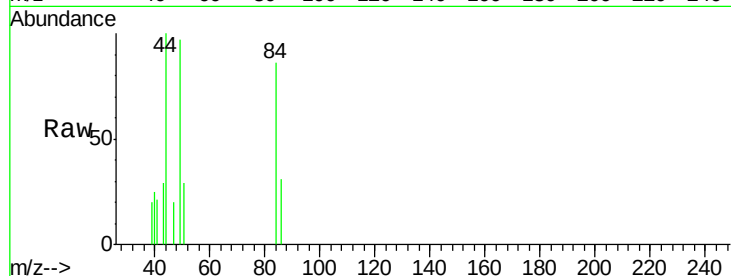




#20
Methylene Chloride
Concen: 0.35 ug/l
RT: 2.68 min Scan# 651
Delta R.T. -0.02 min
Lab File: VU024879.D
Acq: 25 Jun 2018 16:56

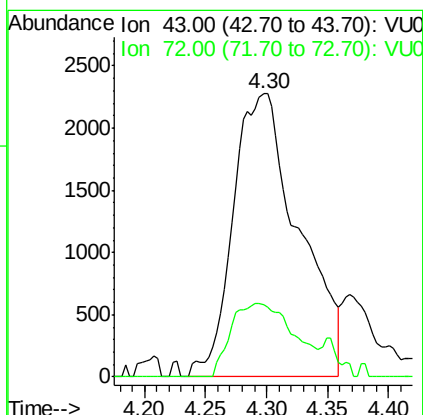
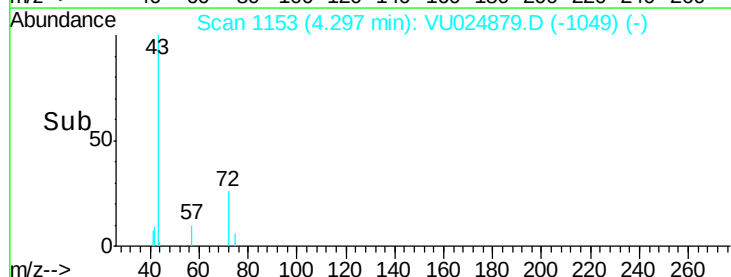
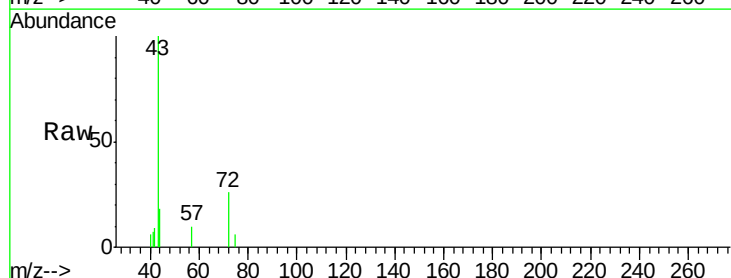
Instrument :
MSVOA_U
ClientSampleId :

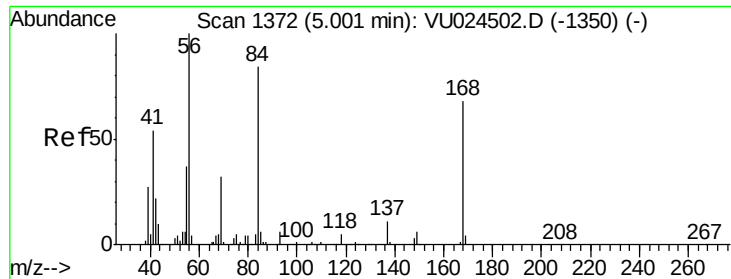
Tot Ion: 84 Resp: 1012
Ion Ratio Lower Upper
84 100
49 112.6 103.8 155.8
51 33.6 32.0 48.0
86 35.7 51.6 77.4#



#25
2-Butanone
Concen: 3.45 ug/l
RT: 4.30 min Scan# 1153
Delta R.T. 0.04 min
Lab File: VU024879.D
Acq: 25 Jun 2018 16:56

Tgt Ion: 43 Resp: 8496
Ion Ratio Lower Upper
43 100
72 25.7 19.6 29.4

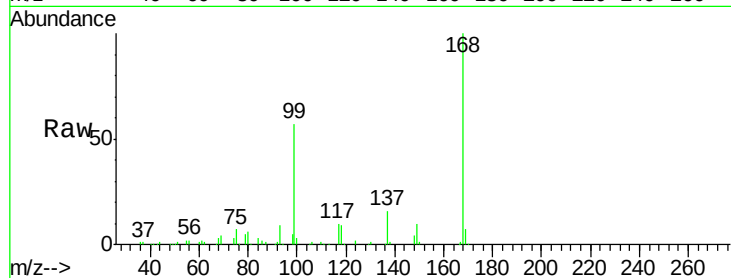




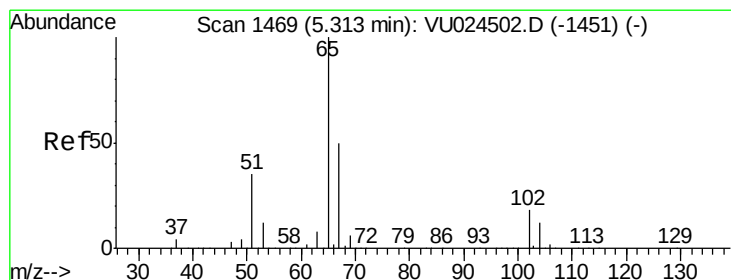
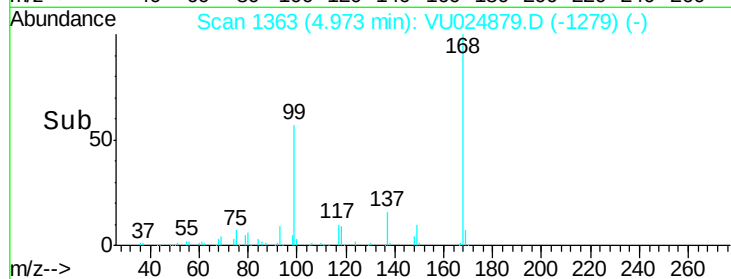
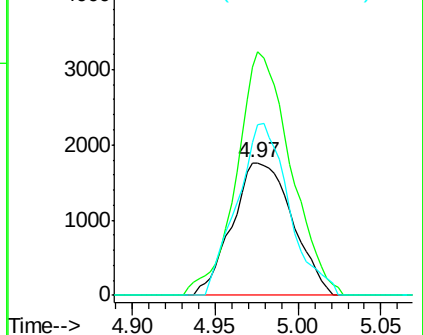
#31
Cyclohexane
Concen: Below Cal
RT: 4.97 min Scan# 1363
Delta R.T. -0.03 min
Lab File: VU024879.D
Acq: 25 Jun 2018 16:56

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 56 Resp: 4456
Ion Ratio Lower Upper
56 100
69 166.4 24.8 37.2#
84 115.3 65.2 97.8#

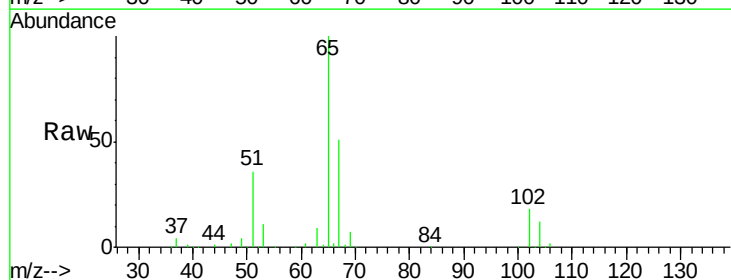


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

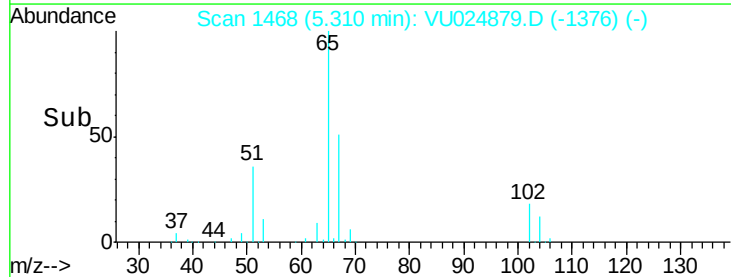
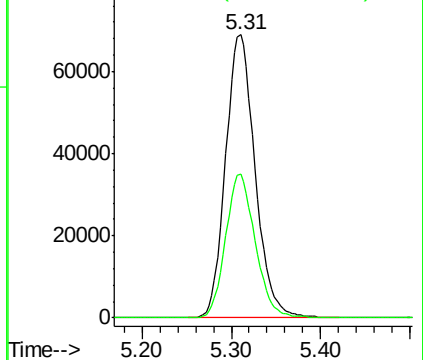


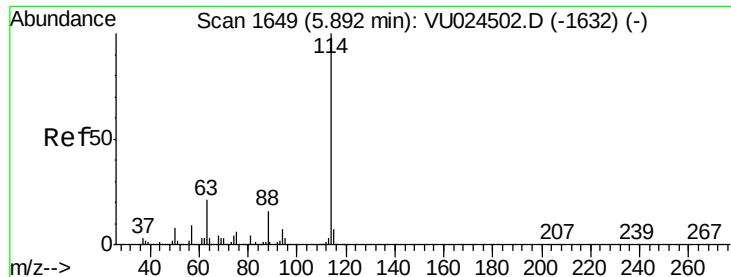
#33
1,2-Dichloroethane-d4
Concen: 46.29 ug/l
RT: 5.31 min Scan# 1468
Delta R.T. -0.00 min
Lab File: VU024879.D
Acq: 25 Jun 2018 16:56

Tgt Ion: 65 Resp: 157962
Ion Ratio Lower Upper
65 100
67 51.0 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

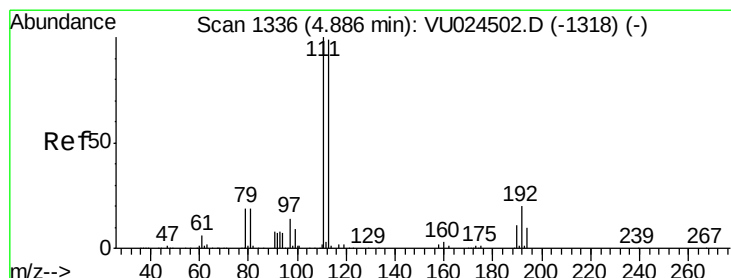
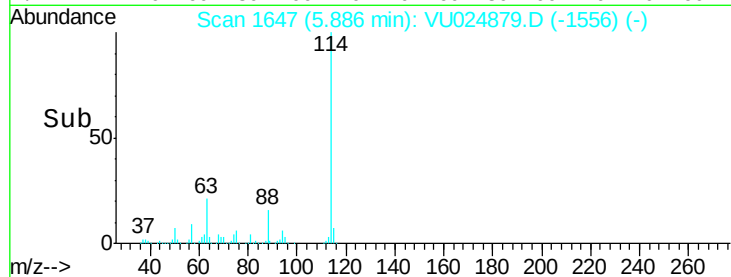
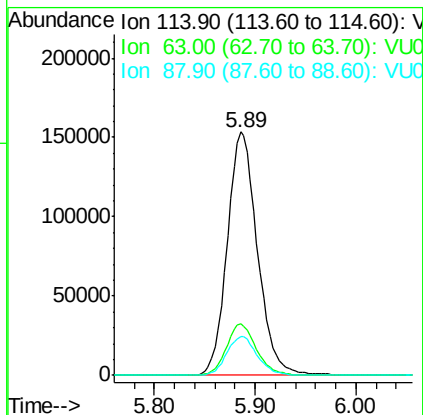
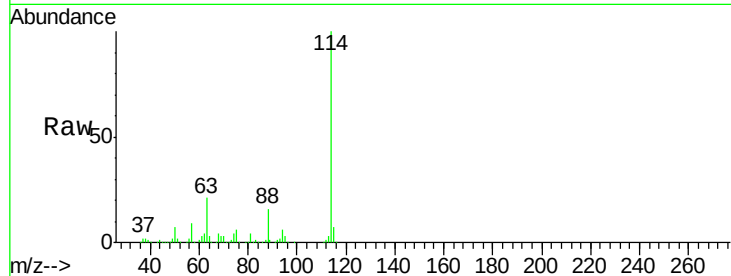
Delta R.T. -0.01 min

Lab File: VU024879.D

Acq: 25 Jun 2018 16:56

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:114	Resp:	320007
Ion Ratio	Lower	Upper
114 100		
63 21.0	0.0	45.4
88 15.7	0.0	31.0



#35

Dibromofluoromethane

Concen: 47.17 ug/l

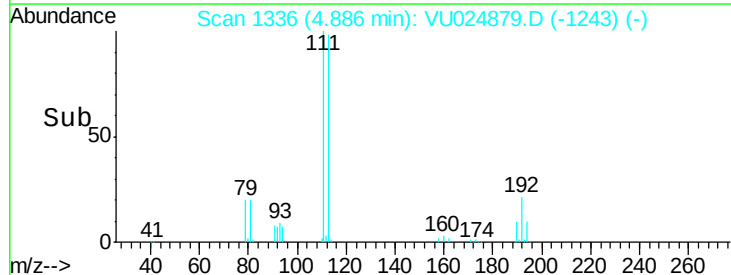
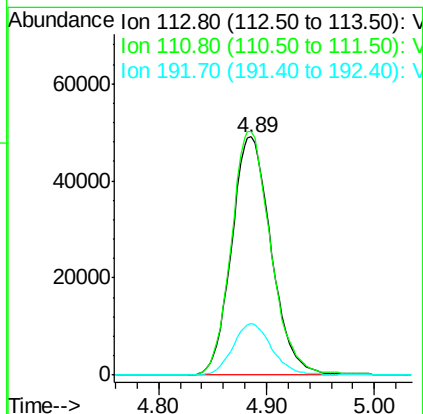
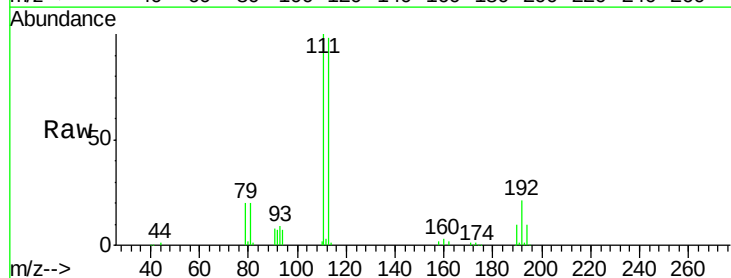
RT: 4.89 min Scan# 1336

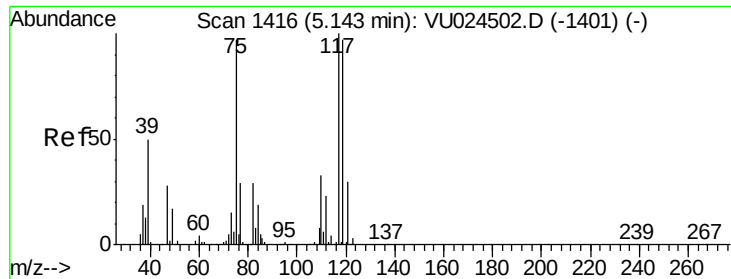
Delta R.T. 0.00 min

Lab File: VU024879.D

Acq: 25 Jun 2018 16:56

Tgt Ion:113	Resp:	125264
Ion Ratio	Lower	Upper
113 100		
111 102.0	82.2	123.4
192 21.4	16.2	24.4

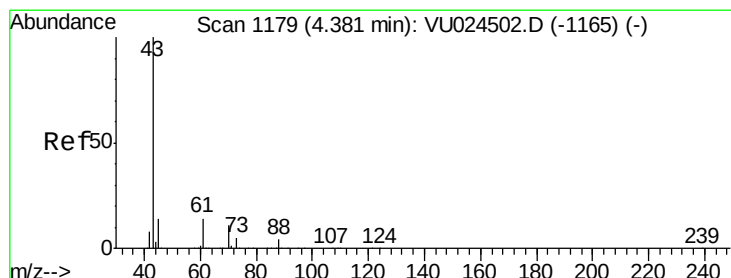
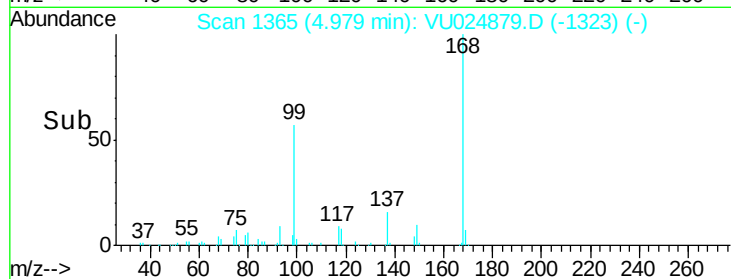
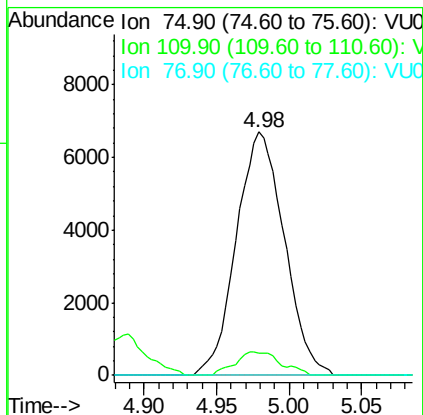
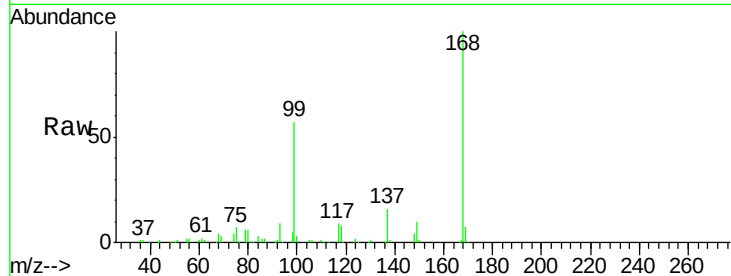




#36
 1,1-Dichloropropene
 Concen: 4.10 ug/l
 RT: 4.98 min Scan# 1365
 Delta R.T. -0.16 min
 Lab File: VU024879.D
 Acq: 25 Jun 2018 16:56

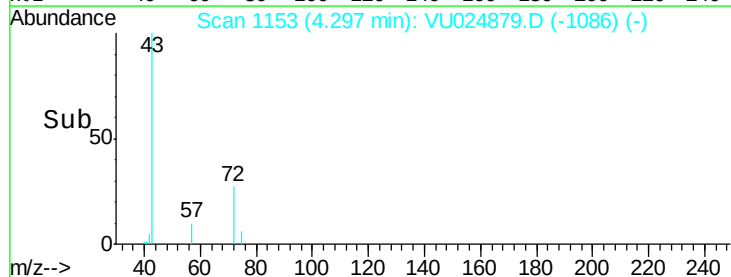
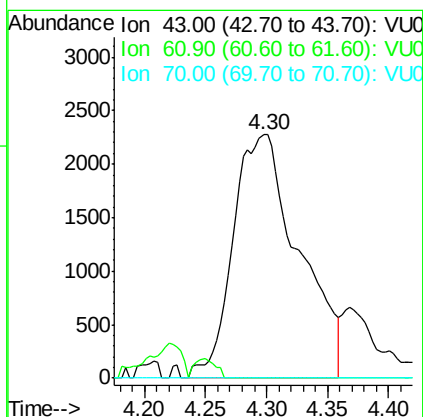
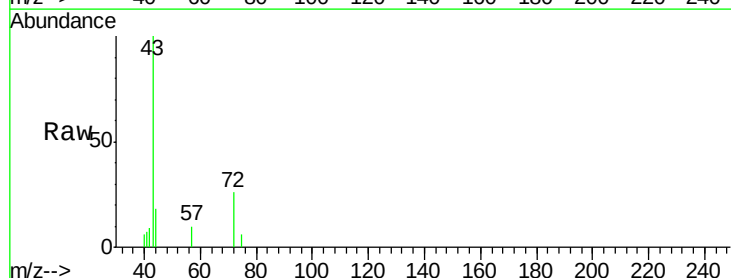
Instrument :
 MSVOA_U
 ClientSampled :

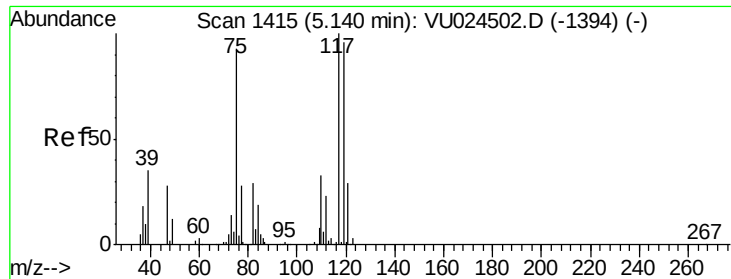
Tot Ion: 75 Resp: 15408
 Ion Ratio Lower Upper
 75 100
 110 9.3 17.0 50.9#
 77 0.0 24.2 36.4#



#37
 Ethyl Acetate
 Concen: 2.07 ug/l
 RT: 4.30 min Scan# 1153
 Delta R.T. -0.08 min
 Lab File: VU024879.D
 Acq: 25 Jun 2018 16:56

Tgt Ion: 43 Resp: 8496
 Ion Ratio Lower Upper
 43 100
 61 0.0 10.5 15.7#
 70 0.0 7.4 11.2#





#38

Carbon Tetrachloride

Concen: 4.84 ug/l

RT: 4.98 min Scan# 1365

Delta R.T. -0.16 min

Lab File: VU024879.D

Acq: 25 Jun 2018 16:56

Instrument :

MSVOA_U

ClientSampled :

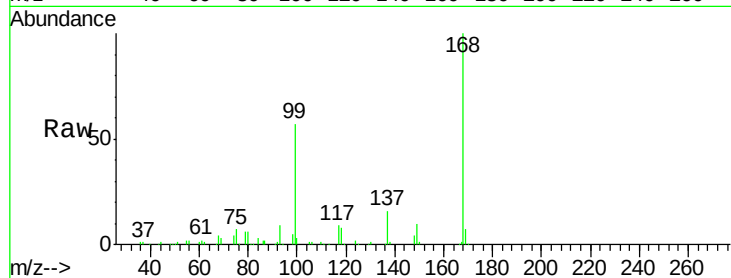
Tot Ion:117 Resp: 19998

Ion Ratio Lower Upper

117 100

119 4.2 76.1 114.1#

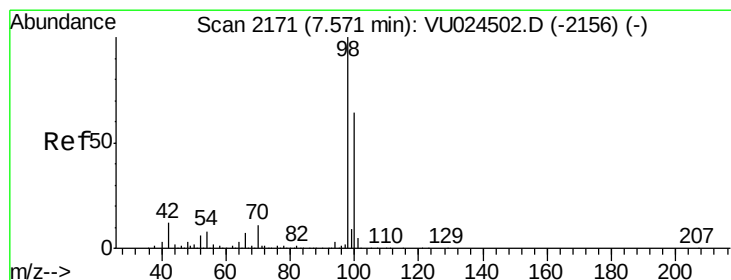
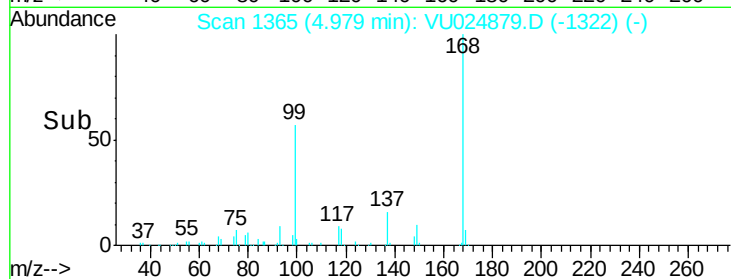
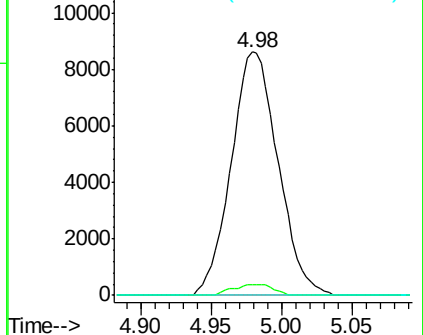
121 0.0 23.7 35.5#



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



#50

Toluene-d8

Concen: 48.34 ug/l

RT: 7.57 min Scan# 2170

Delta R.T. -0.00 min

Lab File: VU024879.D

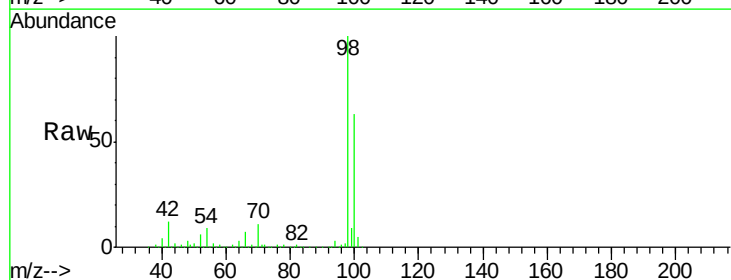
Acq: 25 Jun 2018 16:56

Tgt Ion: 98 Resp: 468313

Ion Ratio Lower Upper

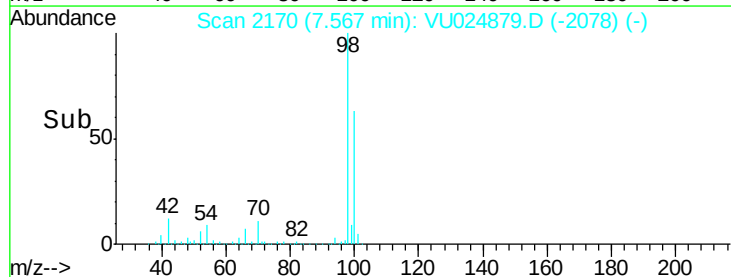
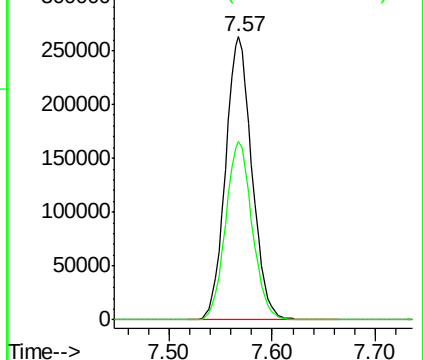
98 100

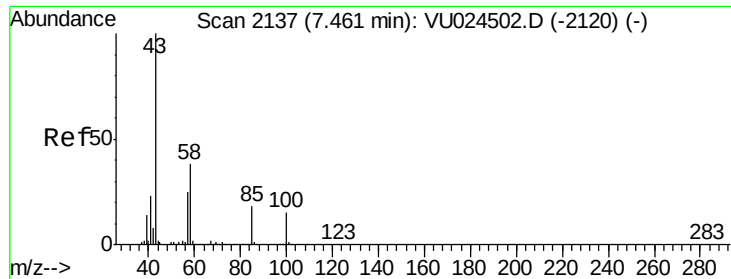
100 63.5 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VU0

Ion 100.00 (99.70 to 100.70): VU





#51

4-Methyl-2-Pentanone

Concen: 0.56 ug/l

RT: 7.56 min Scan# 2169

Delta R.T. 0.10 min

Lab File: VU024879.D

Acq: 25 Jun 2018 16:56

Instrument :

MSVOA_U

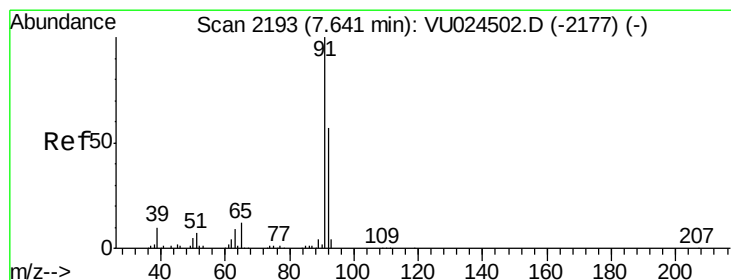
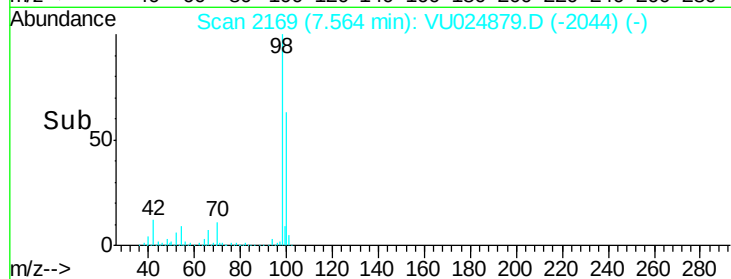
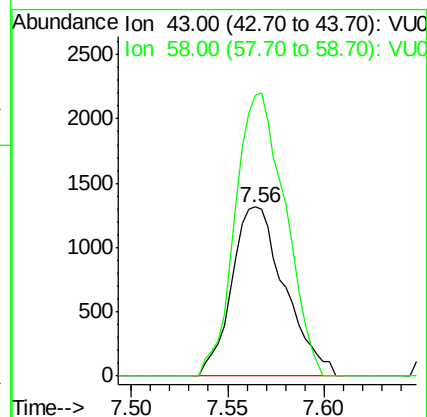
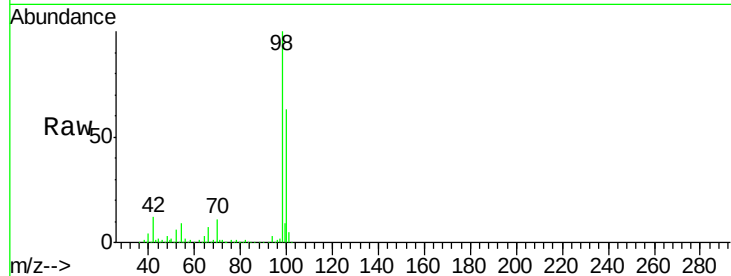
ClientSampleId :

Tot Ion: 43 Resp: 2510

Ion Ratio Lower Upper

43 100

58 157.5 30.0 45.0#



#52

Toluene

Concen: 0.25 ug/l

RT: 7.64 min Scan# 2194

Delta R.T. 0.00 min

Lab File: VU024879.D

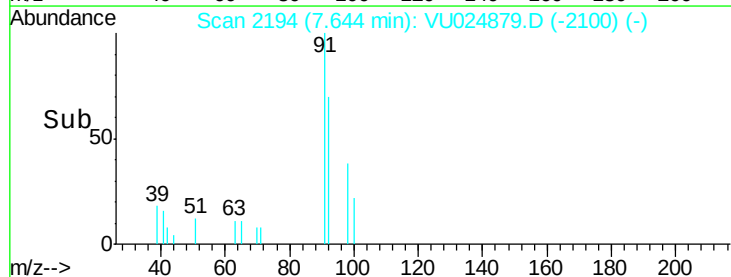
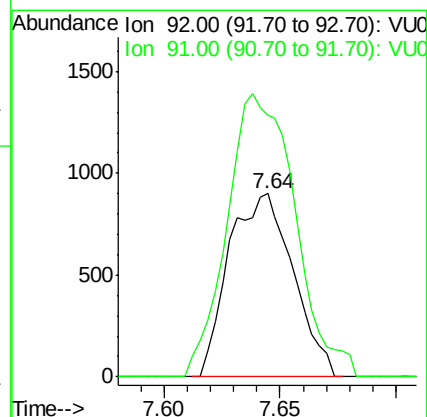
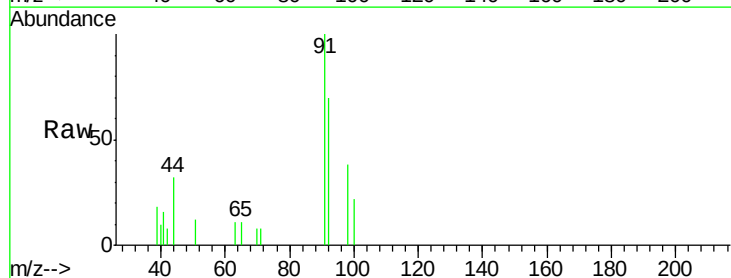
Acq: 25 Jun 2018 16:56

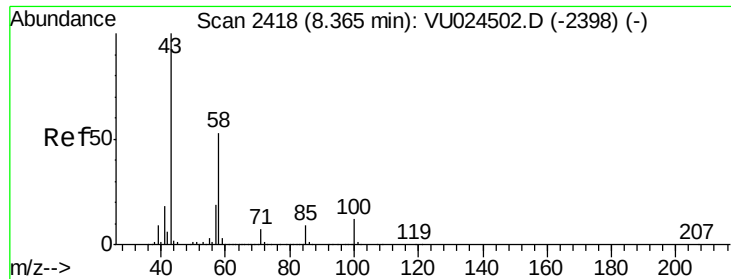
Tgt Ion: 92 Resp: 1731

Ion Ratio Lower Upper

92 100

91 163.5 140.5 210.7

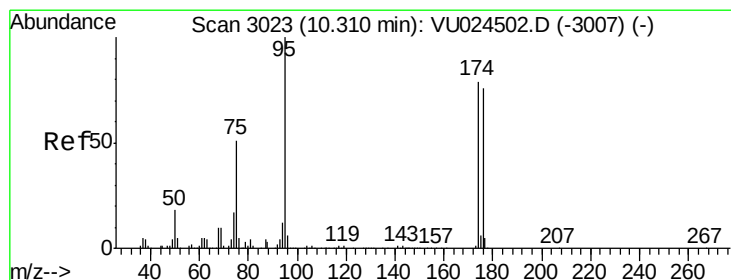
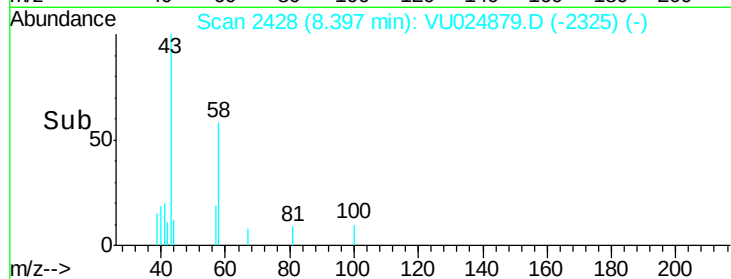
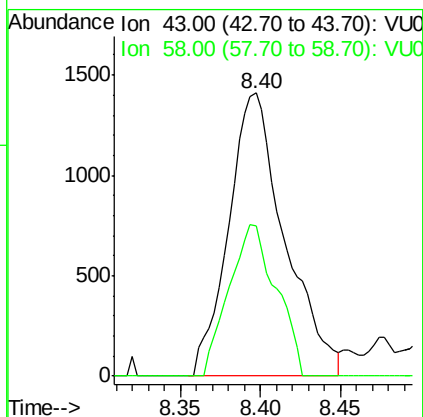
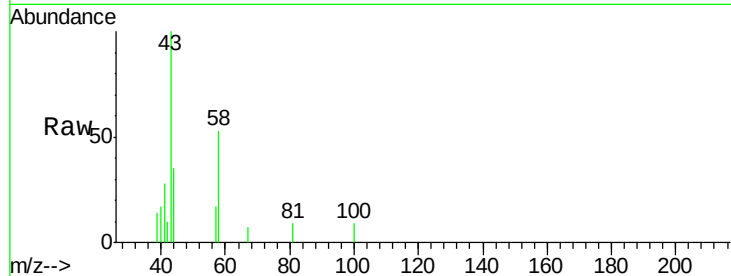




#59
2-Hexanone
Concen: 0.93 ug/l
RT: 8.40 min Scan# 2428
Delta R.T. 0.03 min
Lab File: VU024879.D
Acq: 25 Jun 2018 16:56

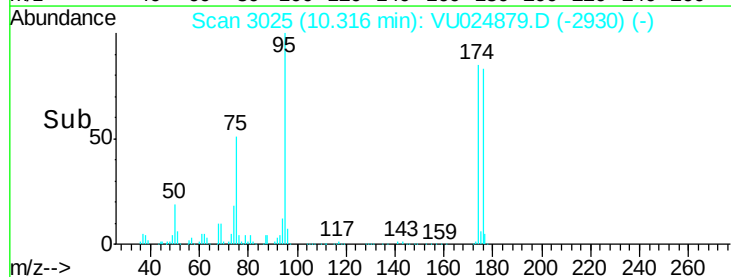
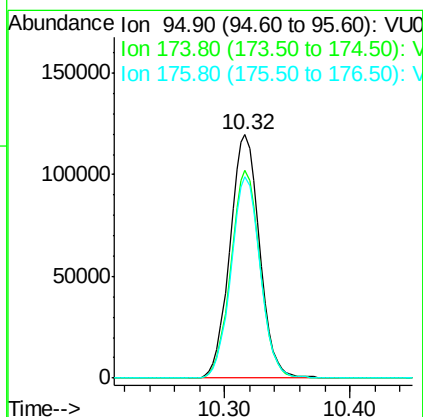
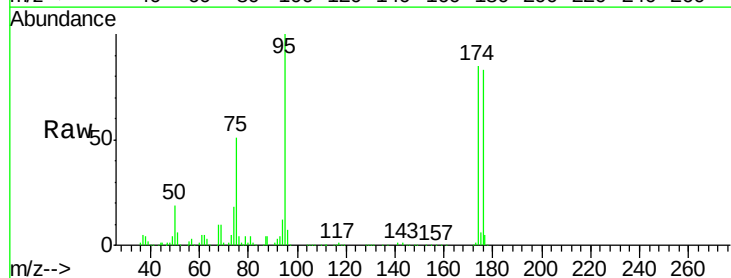
Instrument :
MSVOA_U
ClientSampleId :

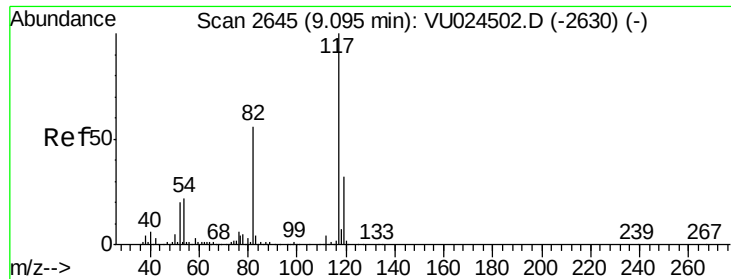
Tot Ion: 43 Resp: 3397
Ion Ratio Lower Upper
43 100
58 44.7 26.4 79.0



#62
4-Bromofluorobenzene
Concen: 50.95 ug/l
RT: 10.32 min Scan# 3025
Delta R.T. 0.01 min
Lab File: VU024879.D
Acq: 25 Jun 2018 16:56

Tgt Ion: 95 Resp: 195986
Ion Ratio Lower Upper
95 100
174 84.1 0.0 165.8
176 81.6 0.0 159.4

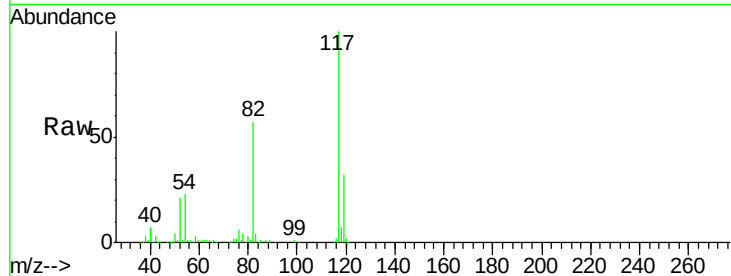




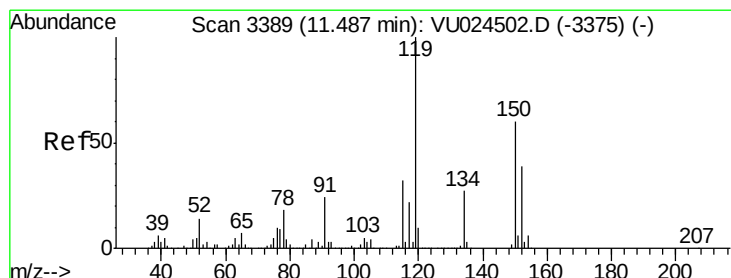
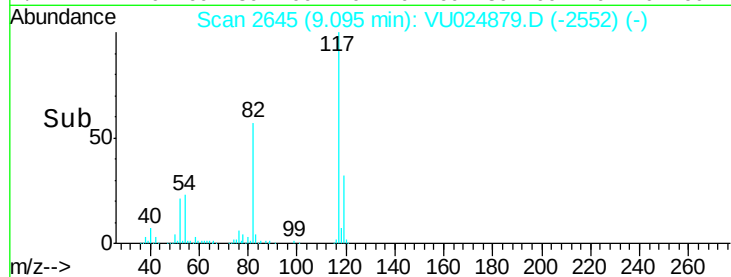
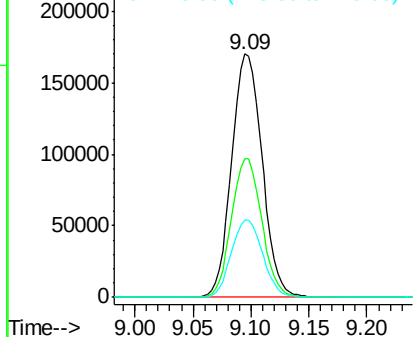
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VU024879.D
Acq: 25 Jun 2018 16:56

Instrument :
MSVOA_U
ClientSampled :

Tot Ion	Ratio	Lower	Upper
117	100		
82	57.2	44.3	66.5
119	31.6	25.4	38.2

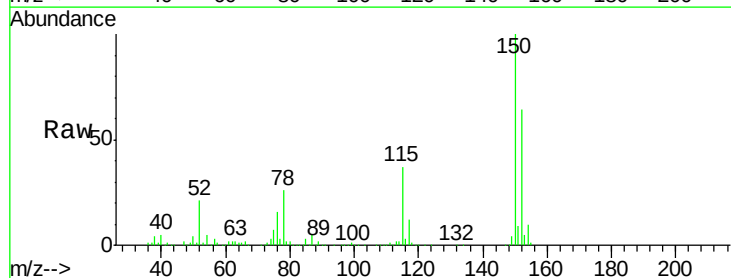


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

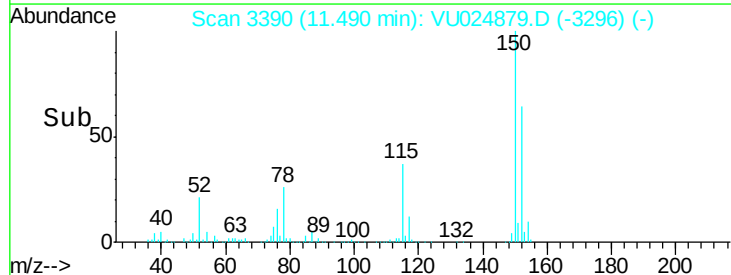
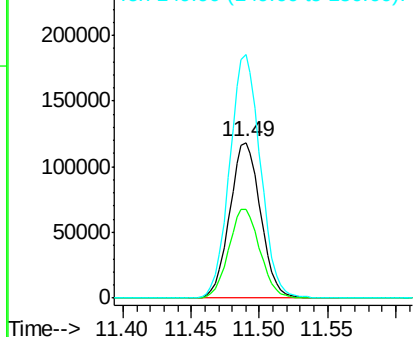


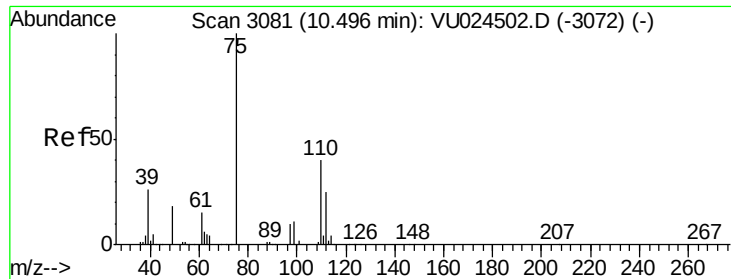
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 11.49 min Scan# 3390
Delta R.T. 0.00 min
Lab File: VU024879.D
Acq: 25 Jun 2018 16:56

Tgt Ion	Ratio	Lower	Upper
152	100		
115	57.9	43.0	129.0
150	156.4	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

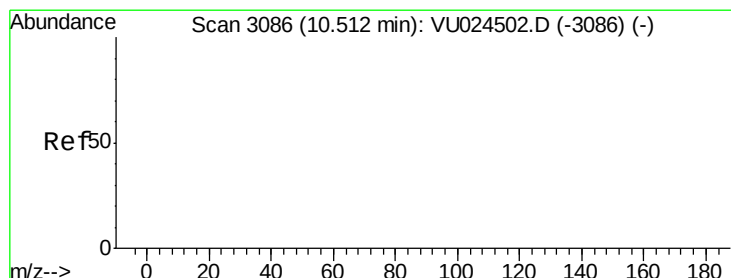
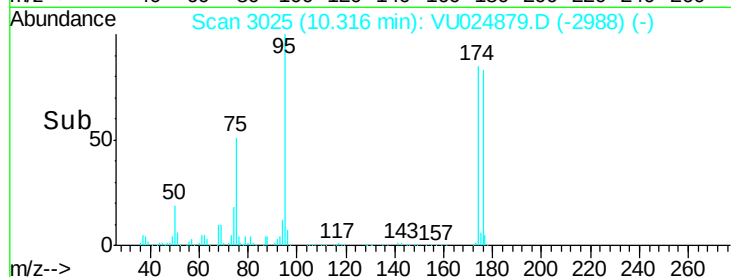
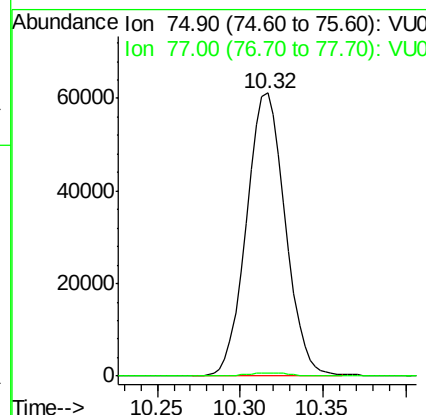
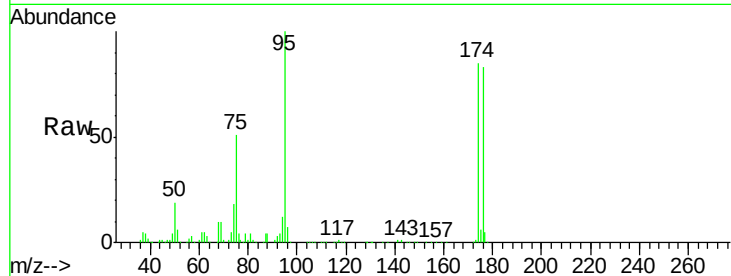




#76
 1,2,3-Trichloropropane
 Concen: 24.39 ug/l
 RT: 10.32 min Scan# 3025
 Delta R.T. -0.18 min
 Lab File: VU024879.D
 Acq: 25 Jun 2018 16:56

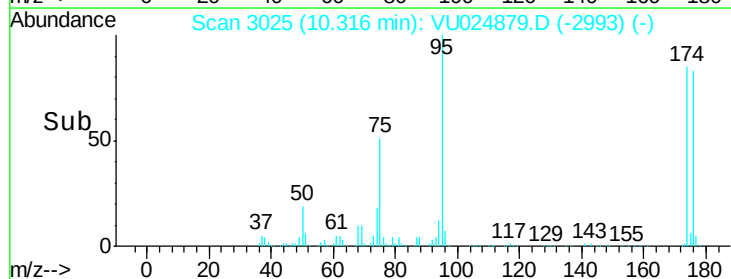
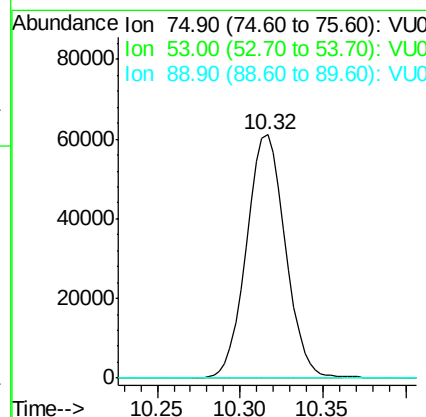
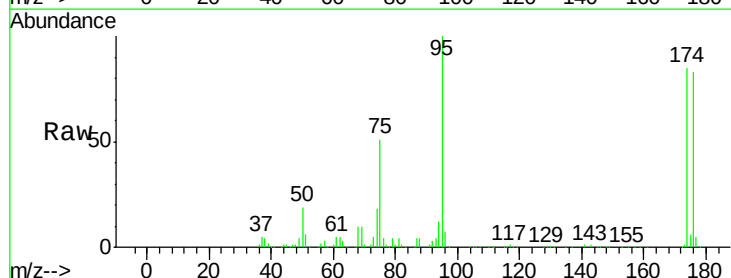
Instrument :
 MSVOA_U
 ClientSampleId :

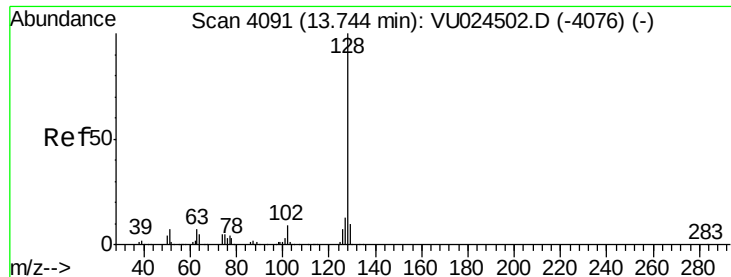
Tot Ion: 75 Resp: 99724
 Ion Ratio Lower Upper
 75 100
 77 1.2 20.9 62.7#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 56.44 ug/l
 RT: 10.32 min Scan# 3025
 Delta R.T. -0.20 min
 Lab File: VU024879.D
 Acq: 25 Jun 2018 16:56

Tgt Ion: 75 Resp: 99724
 Ion Ratio Lower Upper
 75 100
 53 0.0 0.0 0.0
 89 0.0 0.0 0.0





#95
Naphthalene
Concen: 0.88 ug/l
RT: 13.75 min Scan# 4093
Delta R.T. 0.01 min
Lab File: VU024879.D
Acq: 25 Jun 2018 16:56

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	6.8	10.6	16.0#
129	7.0	8.6	12.8#

