

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU062518\
 Data File : VU024895.D
 Acq On : 25 Jun 2018 23:49
 Operator : MD/SY
 Sample : J3669-05ME
 Misc : 6.18g/5.0mL/100uL/5.0mL/MSVOA_U/MEOH
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jun 26 05:39:17 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	222111	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	335422	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	328075	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	189854	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	164086	45.25	ug/l	0.00
Spiked Amount			Recovery	=	90.50%	
35) Dibromofluoromethane	4.88	113	129691	46.59	ug/l	0.00
Spiked Amount			Recovery	=	93.18%	
50) Toluene-d8	7.57	98	491804	48.43	ug/l	0.00
Spiked Amount			Recovery	=	96.86%	
62) 4-Bromofluorobenzene	10.32	95	204580	50.74	ug/l	0.00
Spiked Amount			Recovery	=	101.48%	

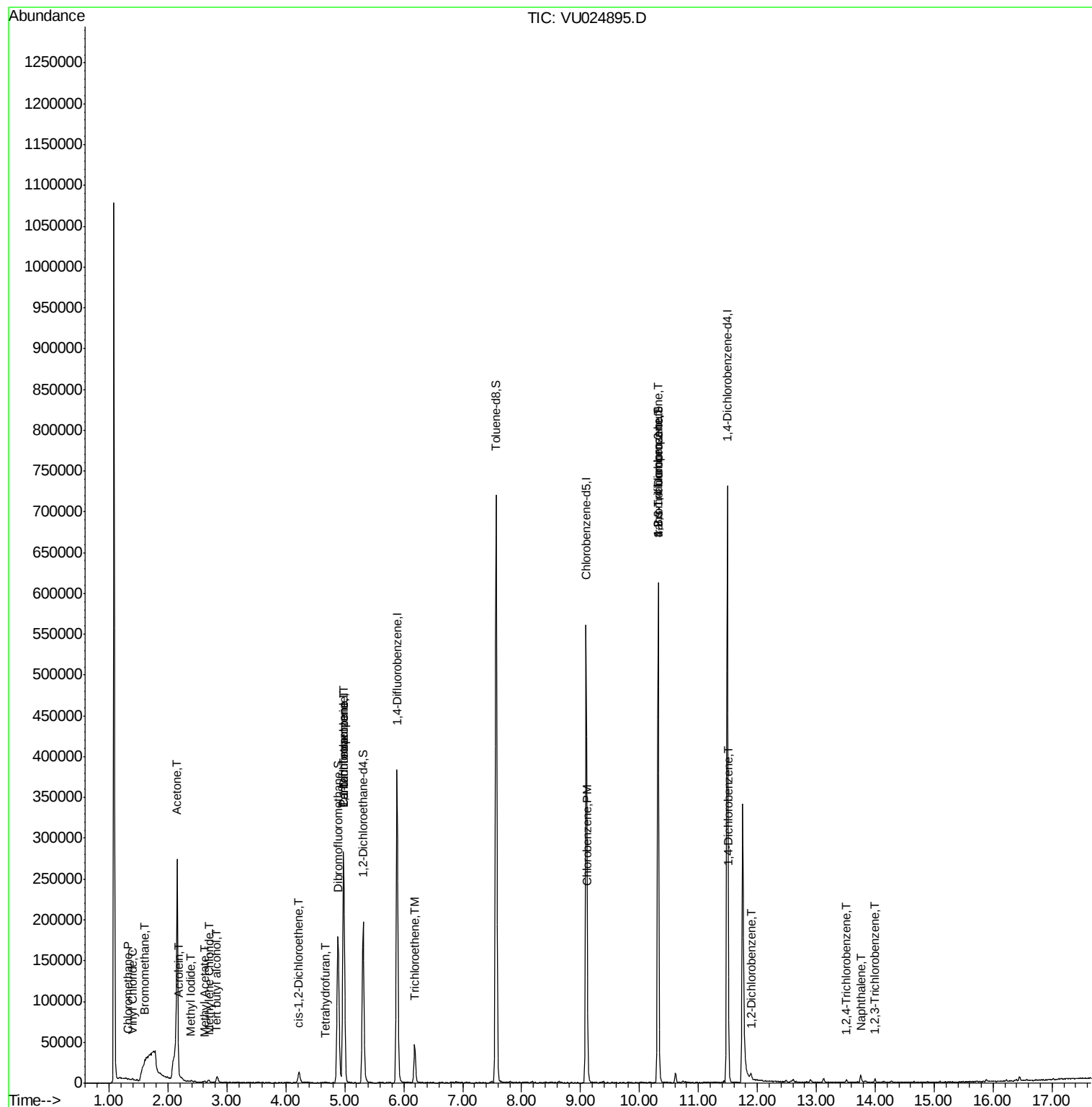
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	983	0.35	ug/l	95
4) Vinyl Chloride	1.40	62	990	0.34	ug/l #	74
5) Bromomethane	1.60	94	1377	0.97	ug/l	99
6) Chloroethane	1.70	64	215	Below Cal		99
8) Diethyl Ether	1.86	74	19	Below Cal #		1
10) Methyl Iodide	2.39	142	1206	5.75	ug/l #	89
11) Tert butyl alcohol	2.83	59	4338	4.92	ug/l #	78
13) Acrolein	2.19	56	210	0.45	ug/l #	65
16) Acetone	2.16	43	67595	34.70	ug/l #	44
18) Methyl Acetate	2.63	43	1357	0.32	ug/l	99
20) Methylene Chloride	2.70	84	1639	0.54	ug/l #	64
27) cis-1,2-Dichloroethene	4.22	96	7767	2.43	ug/l	90
29) Tetrahydrofuran	4.67	42	341	0.21	ug/l #	48
31) Cyclohexane	4.98	56	4553	Below Cal #		3
36) 1,1-Dichloropropene	4.98	75	16751	4.25	ug/l #	50
38) Carbon Tetrachloride	4.98	117	21364	4.93	ug/l #	15
44) Trichloroethene	6.19	130	17143	5.36	ug/l	96
65) Chlorobenzene	9.12	112	7160	0.85	ug/l	96
76) 1,2,3-Trichloropropane	10.32	75	104768	25.06	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.32	75	104768	58.01	ug/l #	100
88) 1,4-Dichlorobenzene	11.52	146	1799	0.26	ug/l #	1
91) 1,2-Dichlorobenzene	11.89	146	1745	0.26	ug/l	97
93) 1,2,4-Trichlorobenzene	13.51	180	1264	0.30	ug/l	88
95) Naphthalene	13.75	128	8875	1.31	ug/l #	95
96) 1,2,3-Trichlorobenzene	13.99	180	1760	0.42	ug/l	87

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\82U061318W.M
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# 1366

Delta R.T. -0.01 min

Lab File: VU024895.D

Acq: 25 Jun 2018 23:49

Instrument :

MSVOA_U

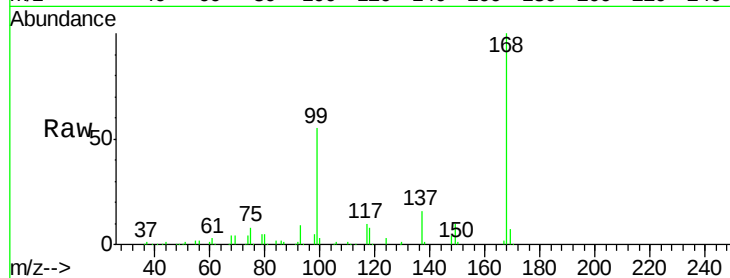
ClientSampleId :

Tot Ion:168 Resp: 222111

Ion Ratio Lower Upper

168 100

99 55.5 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

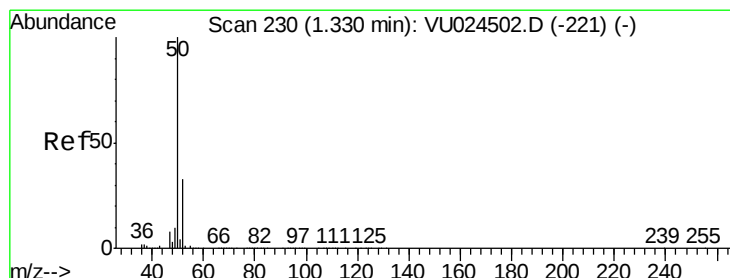
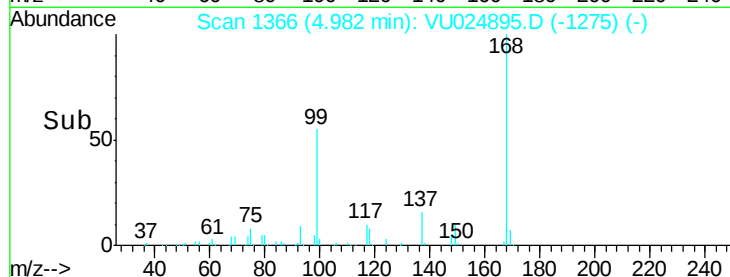
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.35 ug/l

RT: 1.32 min Scan# 227

Delta R.T. -0.01 min

Lab File: VU024895.D

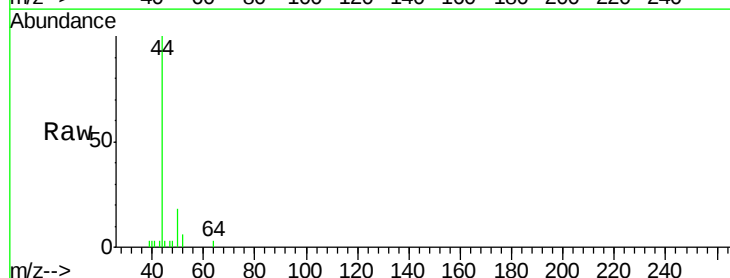
Acq: 25 Jun 2018 23:49

Tgt Ion: 50 Resp: 983

Ion Ratio Lower Upper

50 100

52 35.5 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

800

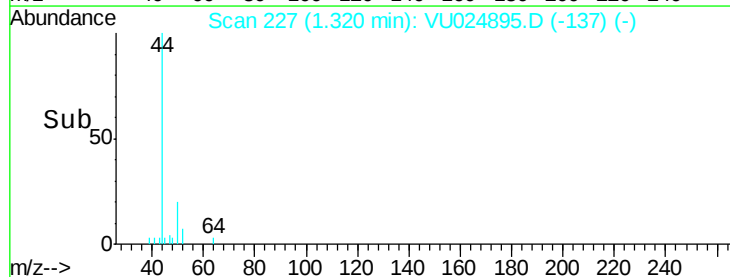
600

400

200

0

Time-->





#4

Vinyl Chloride

Concen: 0.34 ug/l

RT: 1.40 min Scan# 252

Delta R.T. -0.00 min

Lab File: VU024895.D

Acq: 25 Jun 2018 23:49

Instrument :

MSVOA_U

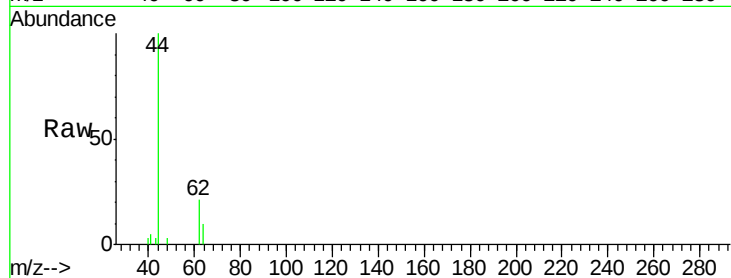
ClientSampleId :

Tot Ion: 62 Resp: 990

Ion Ratio Lower Upper

62 100

64 45.2 24.8 37.2#



Abundance Ion 61.90 (61.60 to 62.60): VU0

Ion 63.90 (63.60 to 64.60): VU0

1.40

800

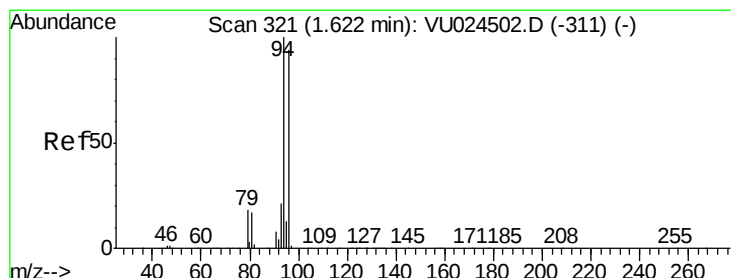
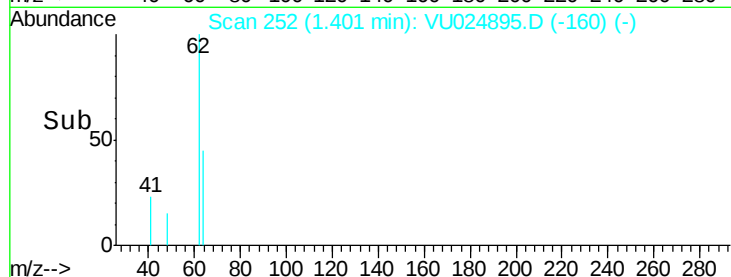
600

400

200

0

Time-->



#5

Bromomethane

Concen: 0.97 ug/l

RT: 1.60 min Scan# 315

Delta R.T. -0.02 min

Lab File: VU024895.D

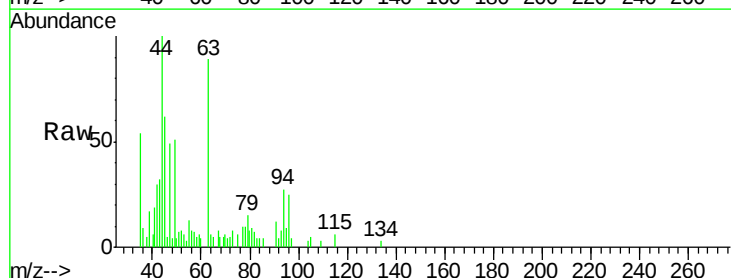
Acq: 25 Jun 2018 23:49

Tgt Ion: 94 Resp: 1377

Ion Ratio Lower Upper

94 100

96 92.5 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0

1.60

1000

800

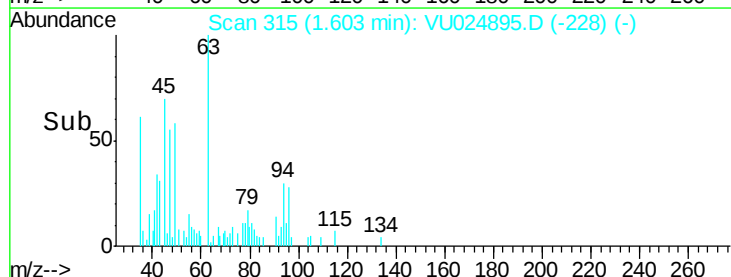
600

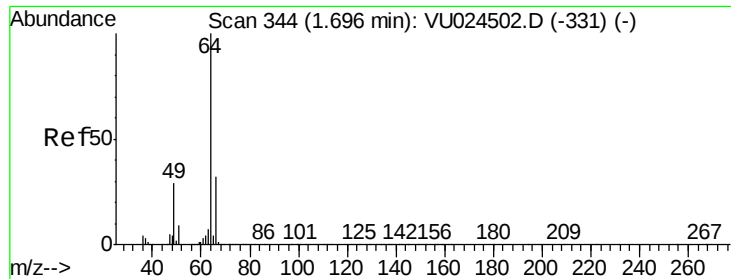
400

200

0

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.70 min Scan# 345

Delta R.T. 0.00 min

Lab File: VU024895.D

Acq: 25 Jun 2018 23:49

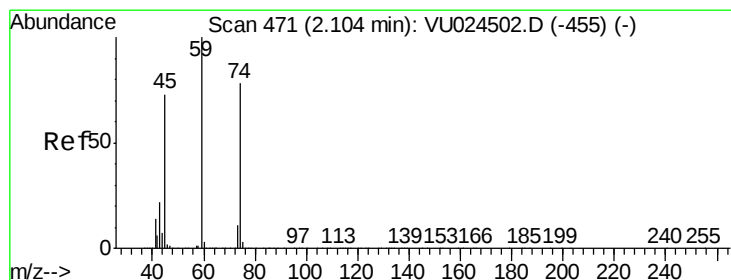
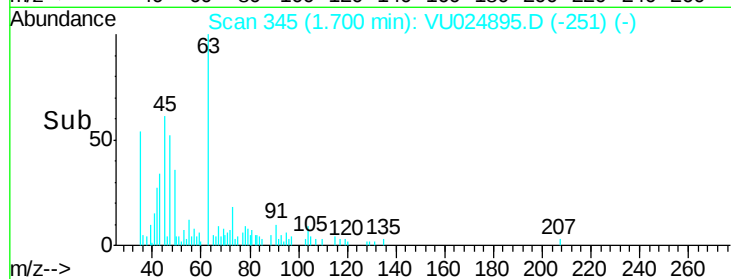
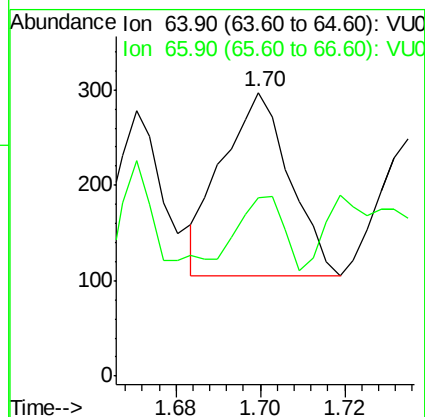
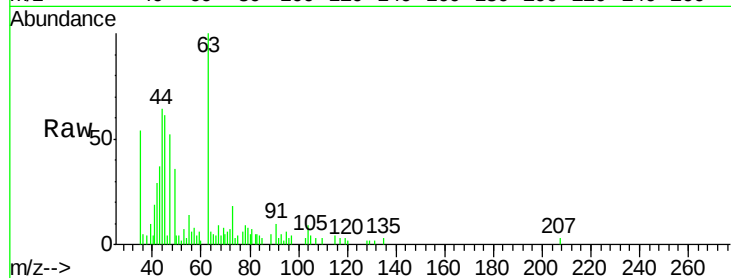
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 64 Resp: 215

Ion Ratio Lower Upper

64 100

66 31.3 25.5 38.3



#8

Diethyl Ether

Concen: Below Cal

RT: 1.86 min Scan# 396

Delta R.T. -0.24 min

Lab File: VU024895.D

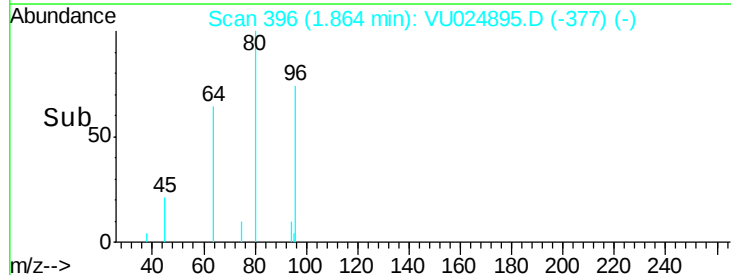
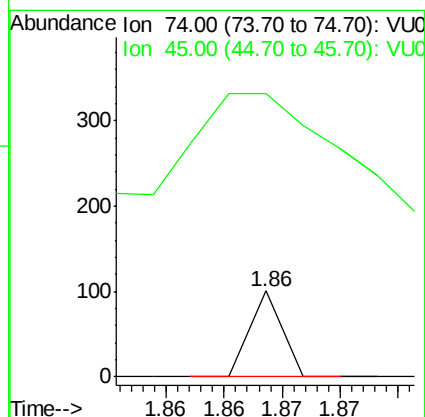
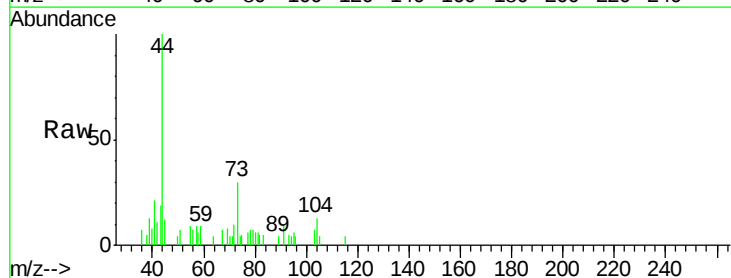
Acq: 25 Jun 2018 23:49

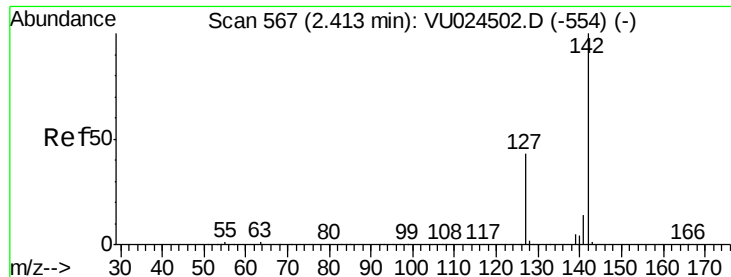
Tgt Ion: 74 Resp: 19

Ion Ratio Lower Upper

74 100

45 0.0 55.0 165.0#

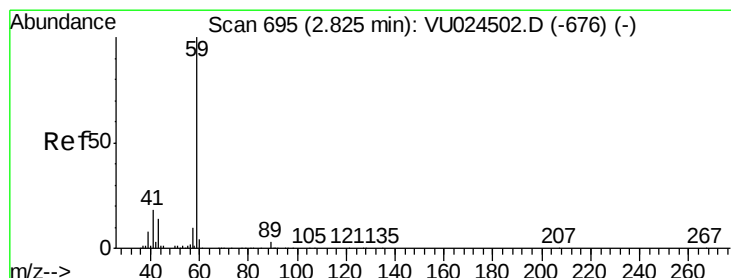
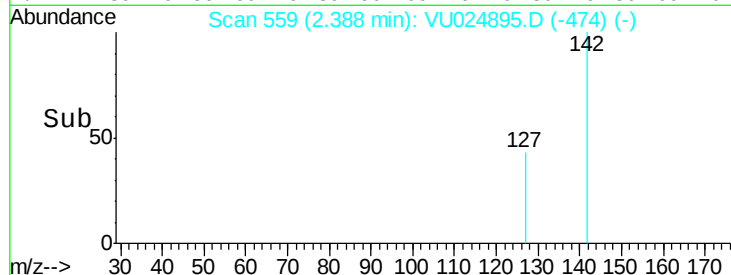
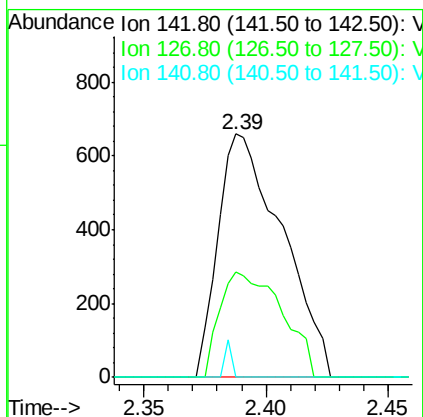
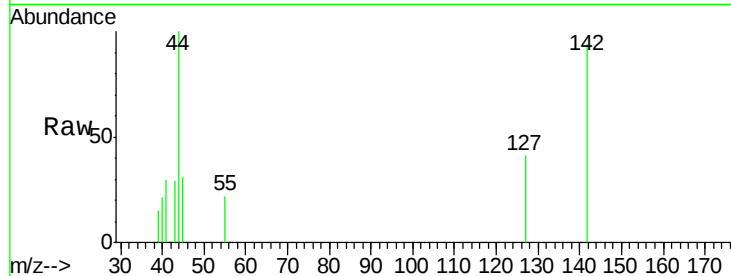




#10
Methvl Iodide
Concen: 5.75 ug/l
RT: 2.39 min Scan# 559
Delta R.T. -0.03 min
Lab File: VU024895.D
Acq: 25 Jun 2018 23:49

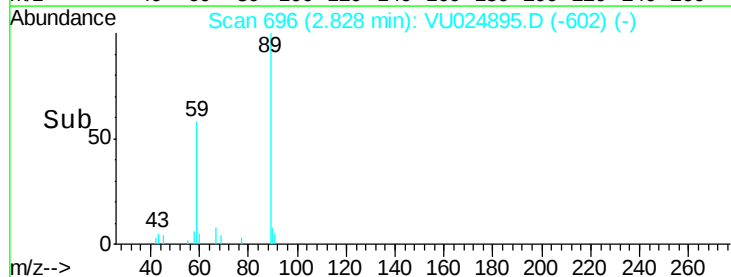
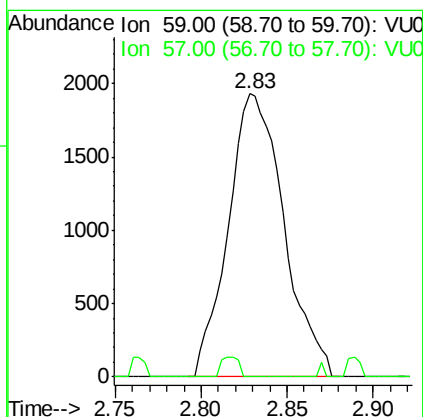
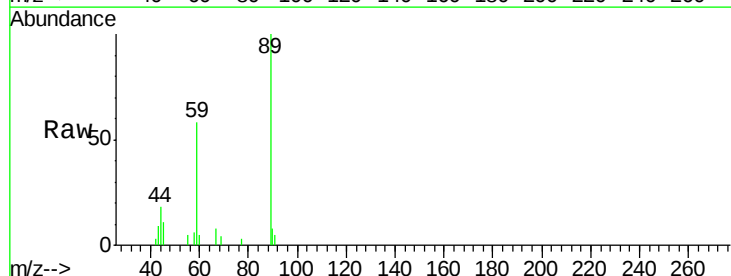
Instrument :
MSVOA_U
ClientSampleId :

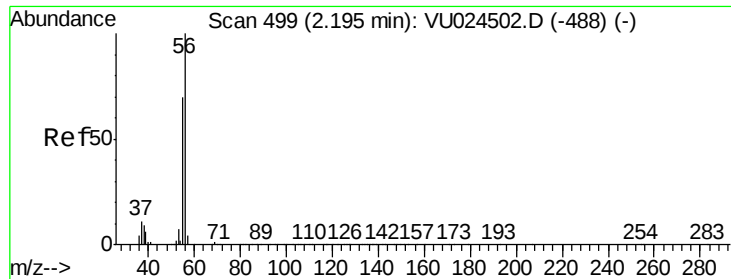
Tot Ion:142 Resp: 1206
Ion Ratio Lower Upper
142 100
127 42.0 35.6 53.4
141 1.7 11.7 17.5#



#11
Tert butyl alcohol
Concen: 4.92 ug/l
RT: 2.83 min Scan# 696
Delta R.T. 0.00 min
Lab File: VU024895.D
Acq: 25 Jun 2018 23:49

Tgt Ion: 59 Resp: 4338
Ion Ratio Lower Upper
59 100
57 2.3 8.5 12.7#

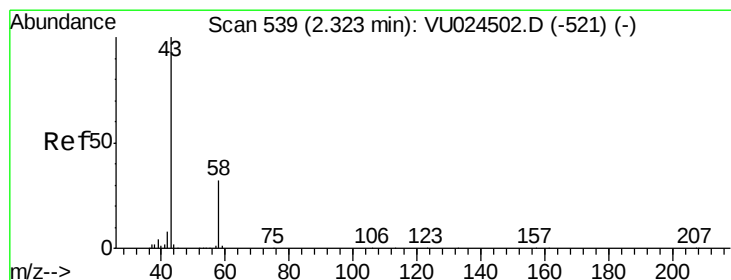
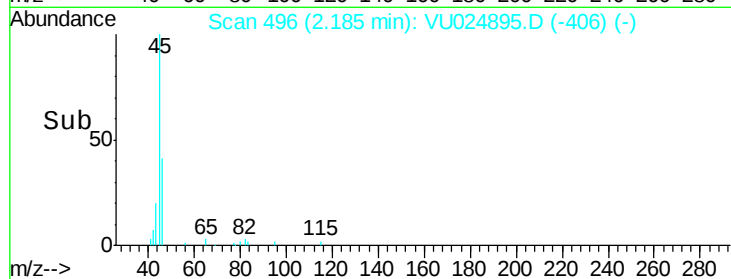
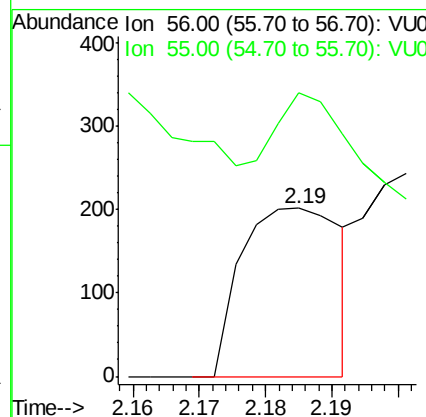
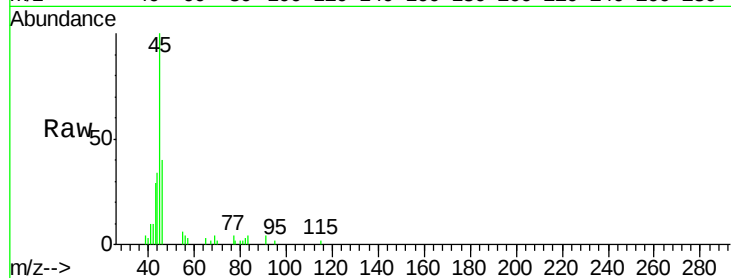




#13
Acrolein
Concen: 0.45 ug/l
RT: 2.19 min Scan# 496
Delta R.T. -0.01 min
Lab File: VU024895.D
Acq: 25 Jun 2018 23:49

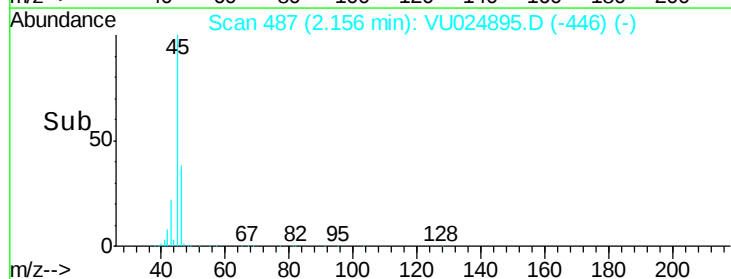
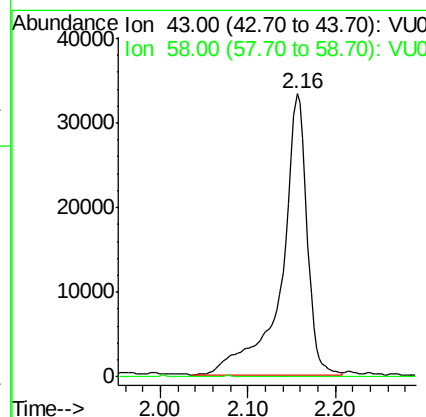
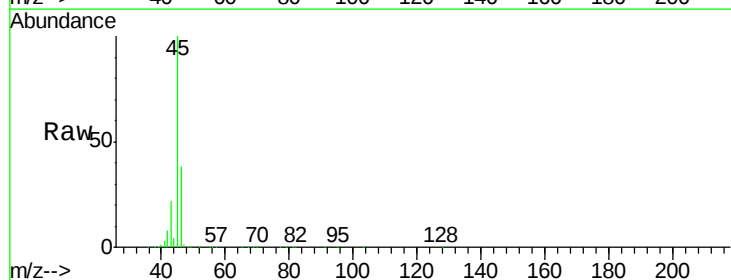
Instrument :
MSVOA_U
ClientSampleId :

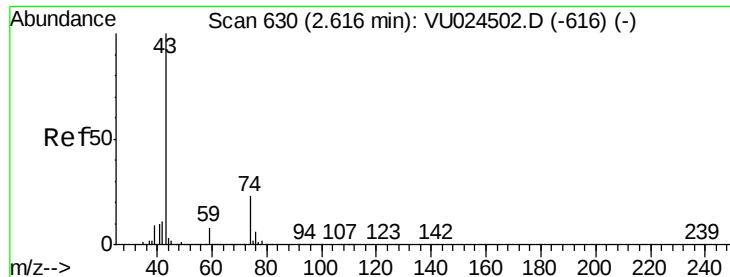
Tot Ion: 56 Resp: 210
Ion Ratio Lower Upper
56 100
55 43.8 58.4 87.6#



#16
Acetone
Concen: 34.70 ug/l
RT: 2.16 min Scan# 487
Delta R.T. -0.17 min
Lab File: VU024895.D
Acq: 25 Jun 2018 23:49

Tgt Ion: 43 Resp: 67595
Ion Ratio Lower Upper
43 100
58 0.0 24.4 36.6#

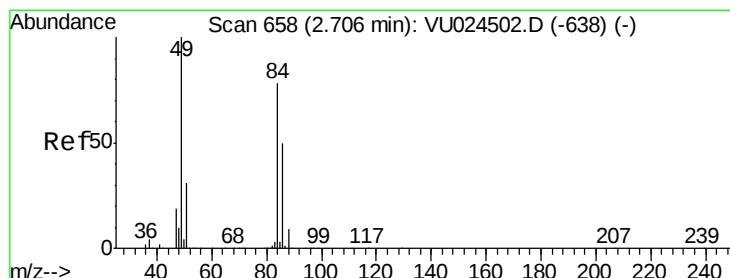
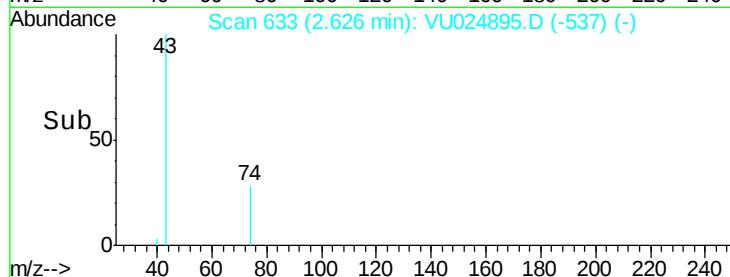
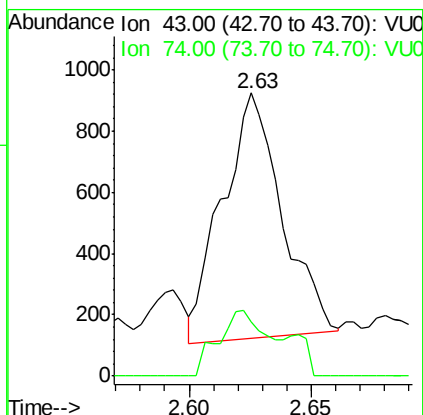
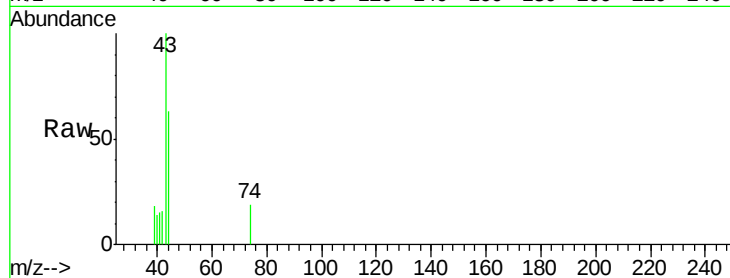




#18
Methyl Acetate
Concen: 0.32 ug/l
RT: 2.63 min Scan# 633
Delta R.T. 0.01 min
Lab File: VU024895.D
Acq: 25 Jun 2018 23:49

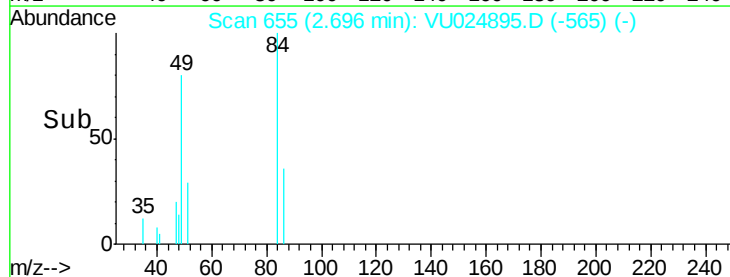
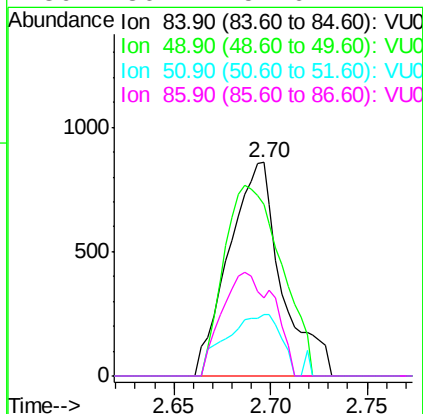
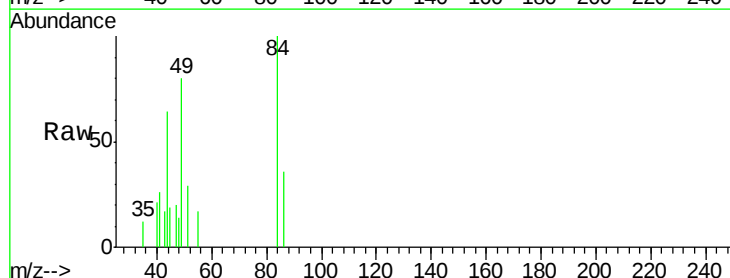
Instrument :
MSVOA_U
ClientSampleId :

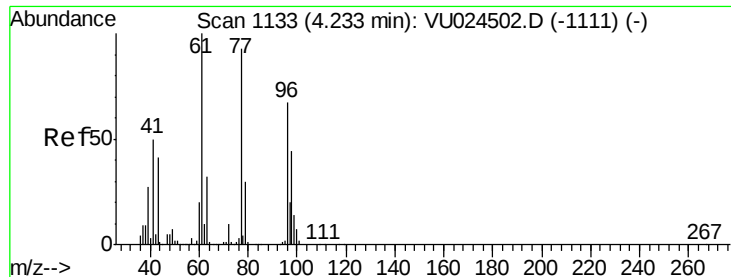
Tot Ion: 43 Resp: 1357
Ion Ratio Lower Upper
43 100
74 22.8 18.0 27.0



#20
Methylene Chloride
Concen: 0.54 ug/l
RT: 2.70 min Scan# 655
Delta R.T. -0.01 min
Lab File: VU024895.D
Acq: 25 Jun 2018 23:49

Tgt Ion: 84 Resp: 1639
Ion Ratio Lower Upper
84 100
49 80.3 103.8 155.8#
51 28.8 32.0 48.0#
86 36.4 51.6 77.4#





#27

cis-1,2-Dichloroethene

Concen: 2.43 ug/l

RT: 4.22 min Scan# 1130

Delta R.T. -0.01 min

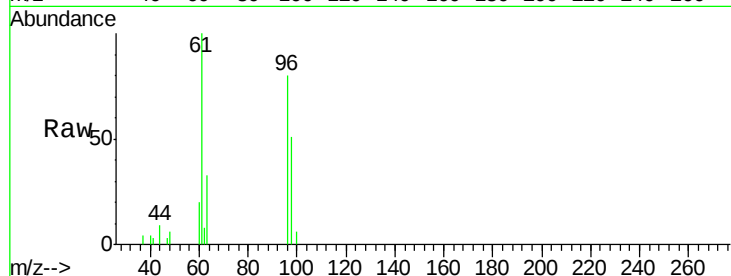
Lab File: VU024895.D

Acq: 25 Jun 2018 23:49

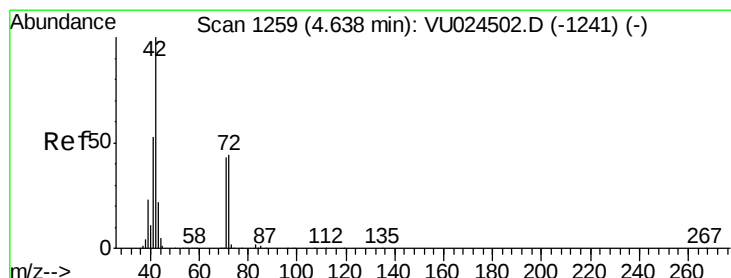
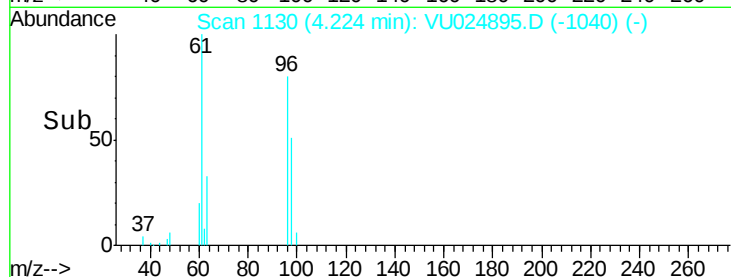
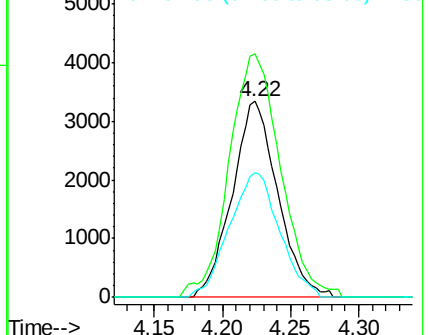
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 96 Resp: 7767

Ion	Ratio	Lower	Upper
96	100		
61	139.6	0.0	306.6
98	69.8	0.0	128.8



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



#29

Tetrahydrofuran

Concen: 0.21 ug/l

RT: 4.67 min Scan# 1269

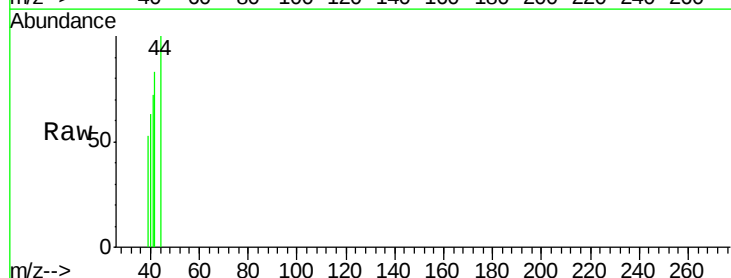
Delta R.T. 0.03 min

Lab File: VU024895.D

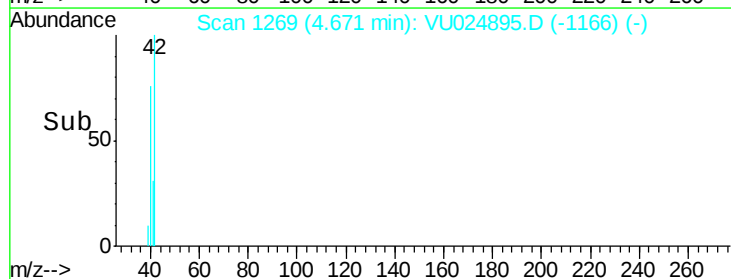
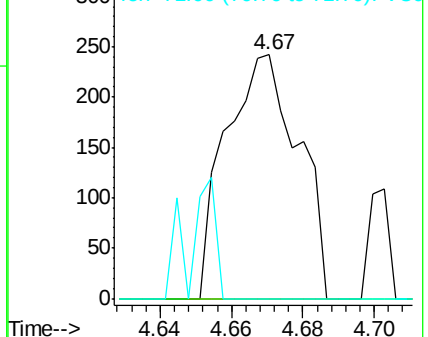
Acq: 25 Jun 2018 23:49

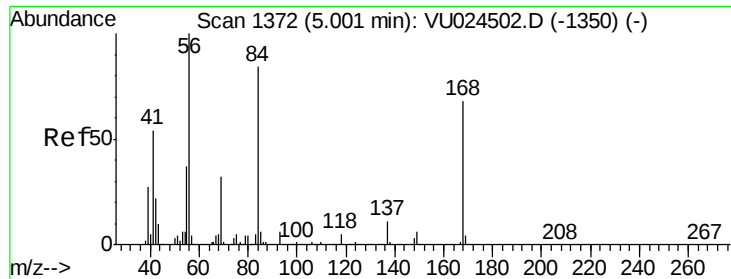
Tgt Ion: 42 Resp: 341

Ion	Ratio	Lower	Upper
42	100		
72	0.0	34.5	51.7#
71	18.2	32.2	48.4#



Abundance Ion 42.00 (41.70 to 42.70): VU0
Ion 72.00 (71.70 to 72.70): VU0
Ion 71.00 (70.70 to 71.70): VU0

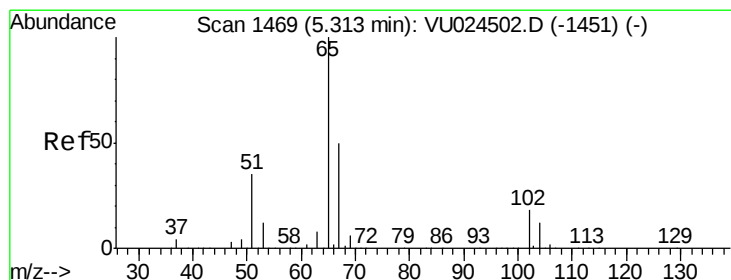
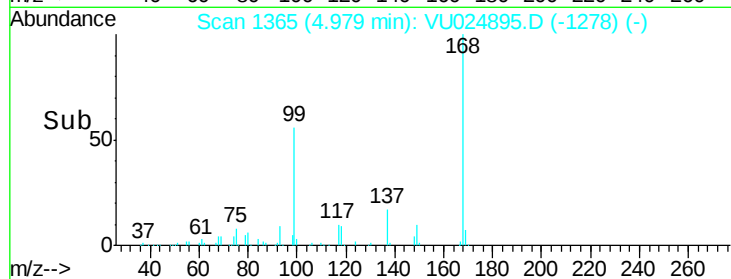
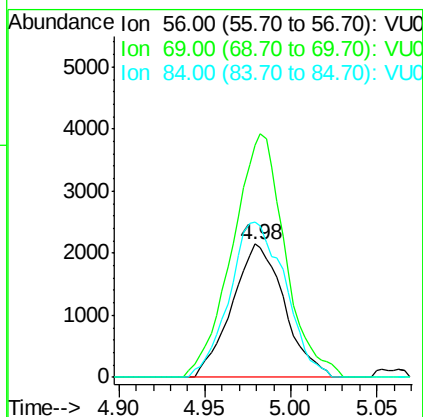
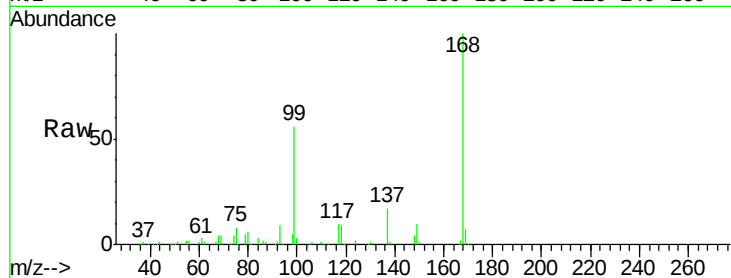




#31
Cyclohexane
Concen: Below Cal
RT: 4.98 min Scan# 1365
Delta R.T. -0.02 min
Lab File: VU024895.D
Acq: 25 Jun 2018 23:49

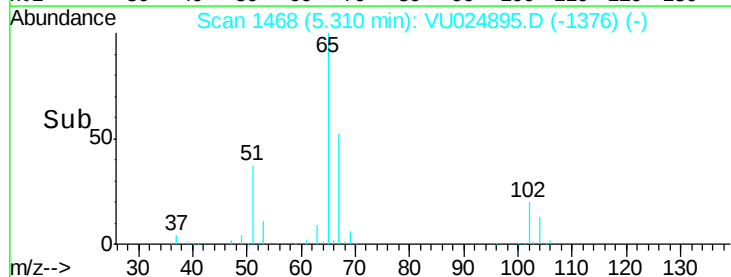
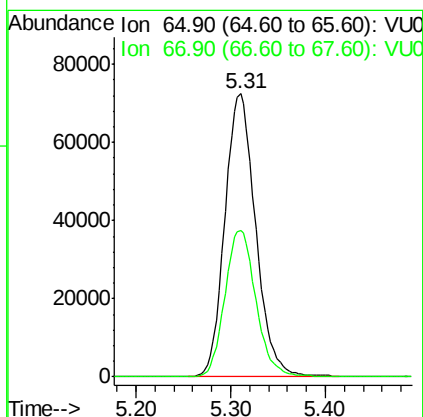
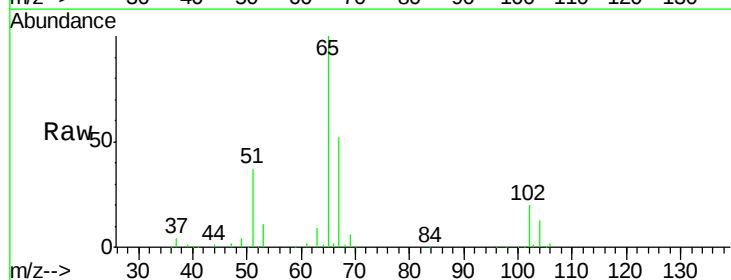
Instrument :
MSVOA_U
ClientSampleId :

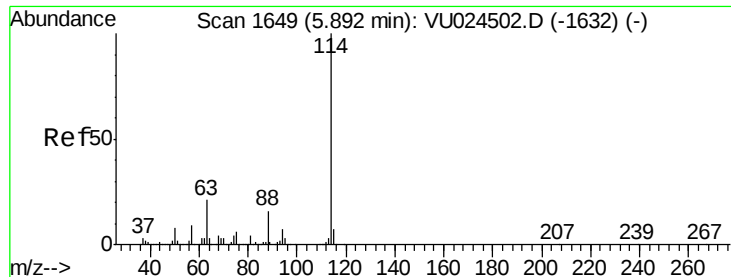
Tot Ion: 56 Resp: 4553
Ion Ratio Lower Upper
56 100
69 168.2 24.8 37.2#
84 116.8 65.2 97.8#



#33
1,2-Dichloroethane-d4
Concen: 45.25 ug/l
RT: 5.31 min Scan# 1468
Delta R.T. -0.00 min
Lab File: VU024895.D
Acq: 25 Jun 2018 23:49

Tgt Ion: 65 Resp: 164086
Ion Ratio Lower Upper
65 100
67 52.2 0.0 107.0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.89 min Scan# 1647

Delta R.T. -0.01 min

Lab File: VU024895.D

Acq: 25 Jun 2018 23:49

Instrument :

MSVOA_U

ClientSampleId :

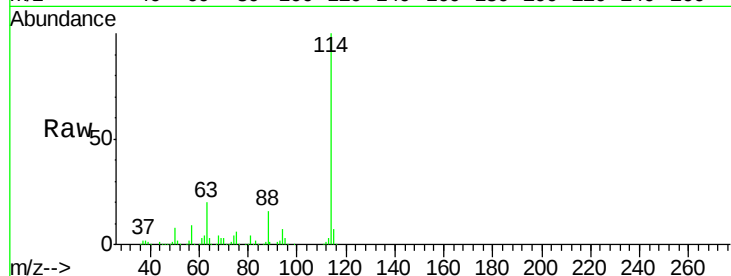
Tot Ion:114 Resp: 335422

Ion Ratio Lower Upper

114 100

63 20.3 0.0 45.4

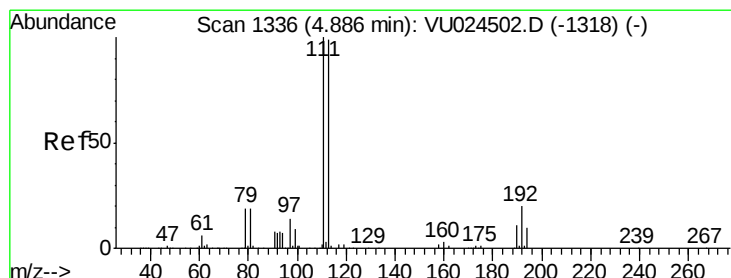
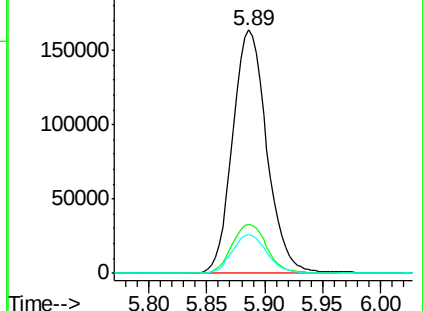
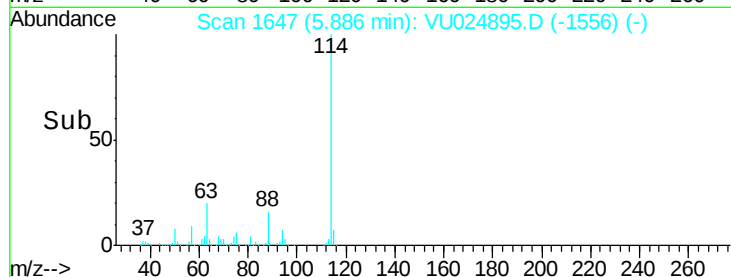
88 15.9 0.0 31.0



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: 46.59 ug/l

RT: 4.88 min Scan# 1335

Delta R.T. -0.00 min

Lab File: VU024895.D

Acq: 25 Jun 2018 23:49

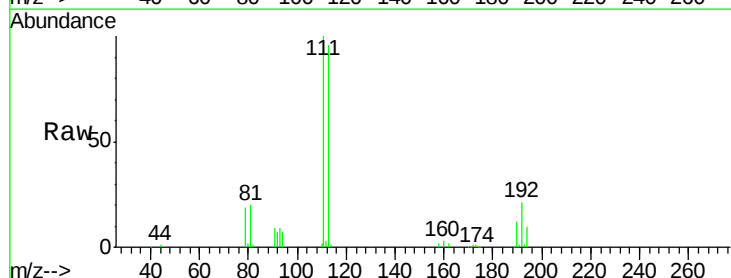
Tgt Ion:113 Resp: 129691

Ion Ratio Lower Upper

113 100

111 102.3 82.2 123.4

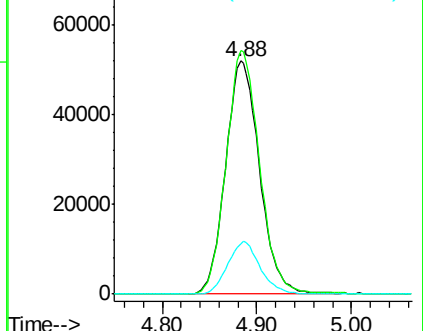
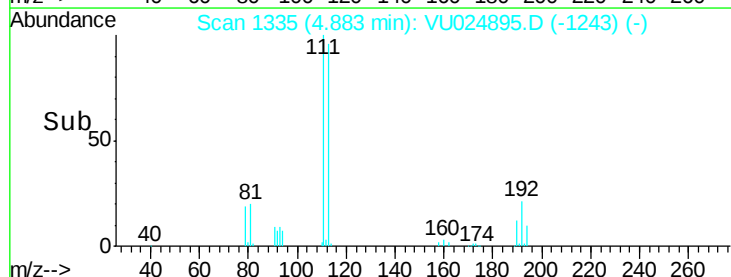
192 21.5 16.2 24.4

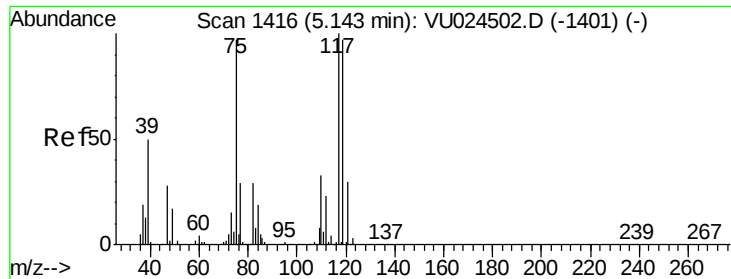


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.25 ug/l

RT: 4.98 min Scan# 1366

Delta R.T. -0.16 min

Lab File: VU024895.D

Acq: 25 Jun 2018 23:49

Instrument :
MSVOA_U
ClientSampleId :

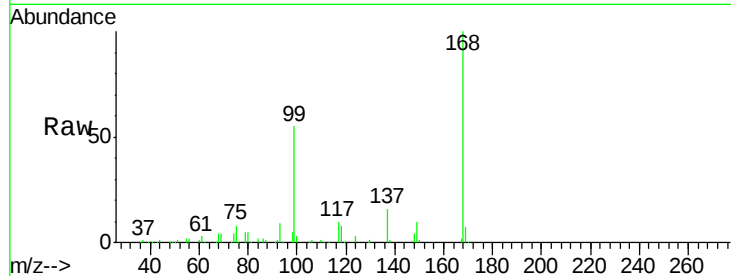
Tot Ion: 75 Resp: 16751

Ion Ratio Lower Upper

75 100

110 8.6 17.0 50.9#

77 0.0 24.2 36.4#

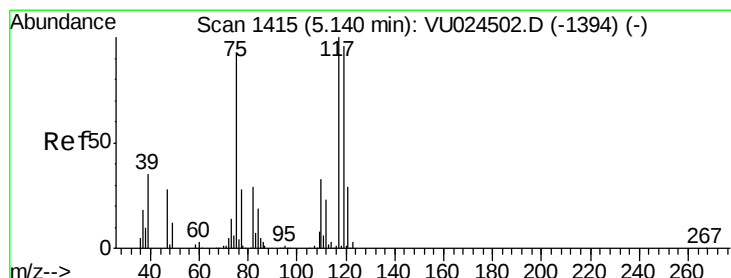
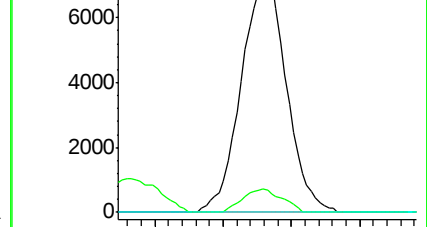
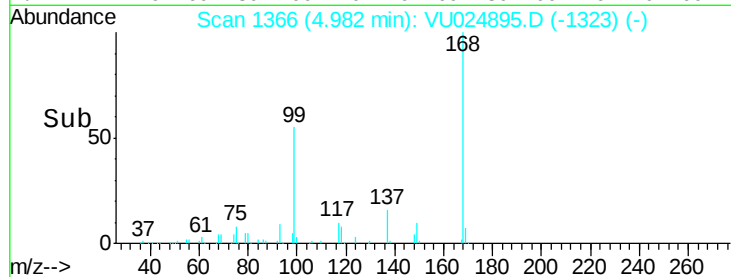


Abundance Ion 74.90 (74.60 to 75.60): VU024895.D (-1366) (-)

Ion 109.90 (109.60 to 110.60): VU024895.D (-1366) (-)

Ion 76.90 (76.60 to 77.60): VU024895.D (-1366) (-)

Time-->



#38

Carbon Tetrachloride

Concen: 4.93 ug/l

RT: 4.98 min Scan# 1365

Delta R.T. -0.16 min

Lab File: VU024895.D

Acq: 25 Jun 2018 23:49

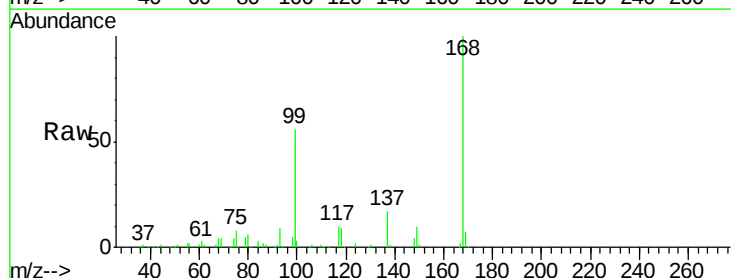
Tgt Ion: 117 Resp: 21364

Ion Ratio Lower Upper

117 100

119 3.9 76.1 114.1#

121 0.0 23.7 35.5#

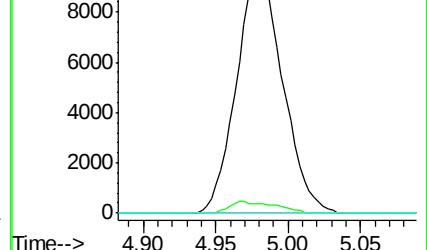
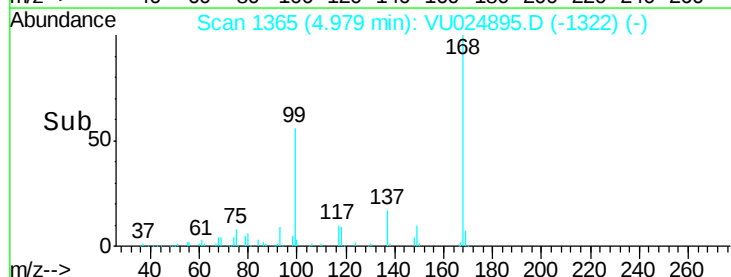


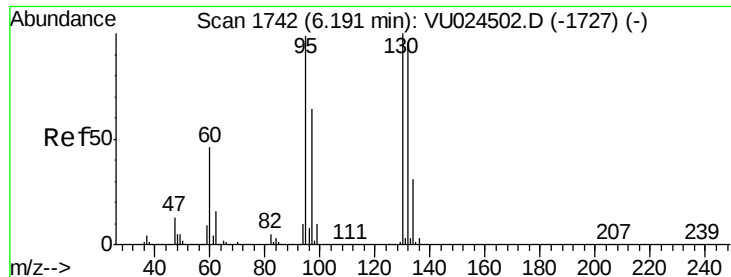
Abundance Ion 116.80 (116.50 to 117.50): VU024895.D (-1365) (-)

Ion 118.80 (118.50 to 119.50): VU024895.D (-1365) (-)

Ion 120.80 (120.50 to 121.50): VU024895.D (-1365) (-)

Time-->





#44

Trichloroethene

Concen: 5.36 ug/l

RT: 6.19 min Scan# 1741

Delta R.T. -0.00 min

Lab File: VU024895.D

Acq: 25 Jun 2018 23:49

Instrument :

MSVOA_U

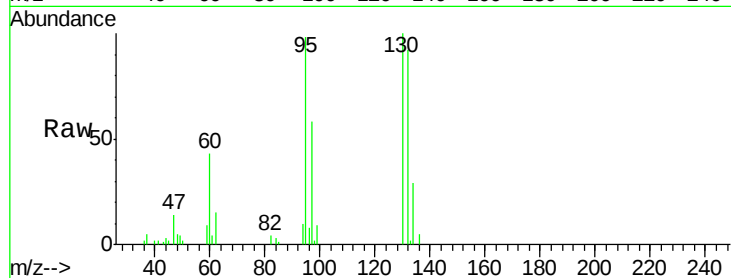
ClientSampleId :

Tot Ion:130 Resp: 17143

Ion Ratio Lower Upper

130 100

95 97.6 0.0 202.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VU0

6.19

10000

8000

6000

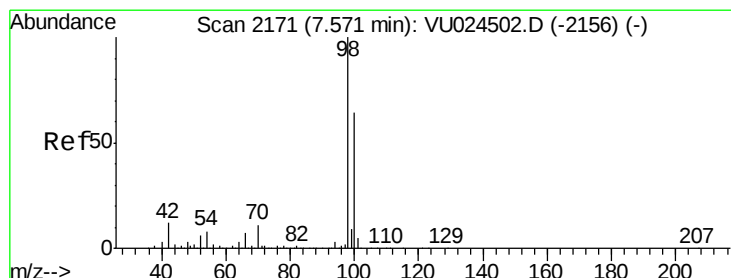
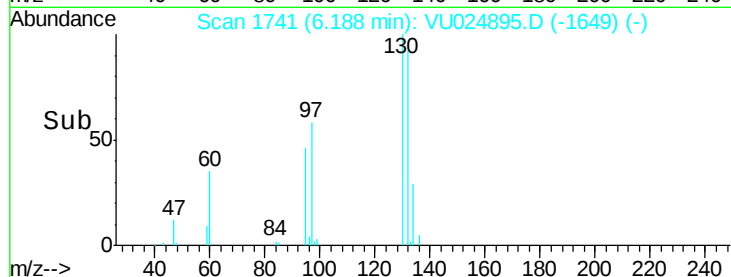
4000

2000

0

Time-->

6.10 6.15 6.20 6.25



#50

Toluene-d8

Concen: 48.43 ug/l

RT: 7.57 min Scan# 2170

Delta R.T. -0.00 min

Lab File: VU024895.D

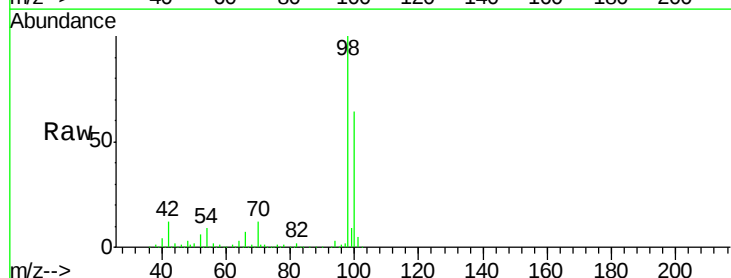
Acq: 25 Jun 2018 23:49

Tgt Ion: 98 Resp: 491804

Ion Ratio Lower Upper

98 100

100 63.8 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VU0

Ion 100.00 (99.70 to 100.70): VU

7.57

300000

250000

200000

150000

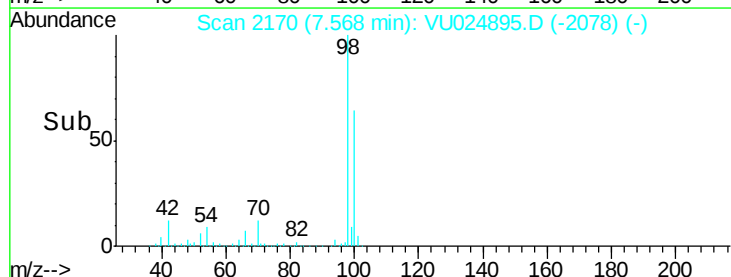
100000

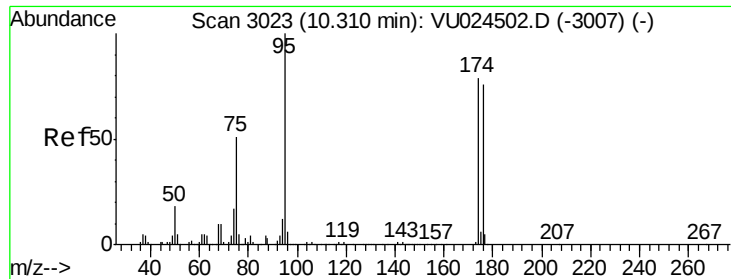
50000

0

Time-->

7.50 7.55 7.60 7.70

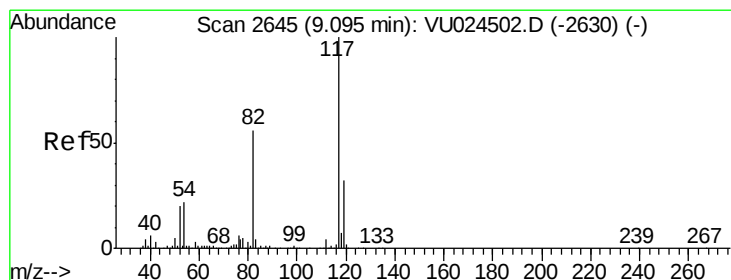
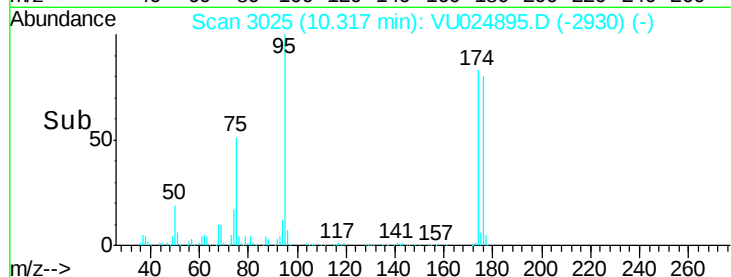
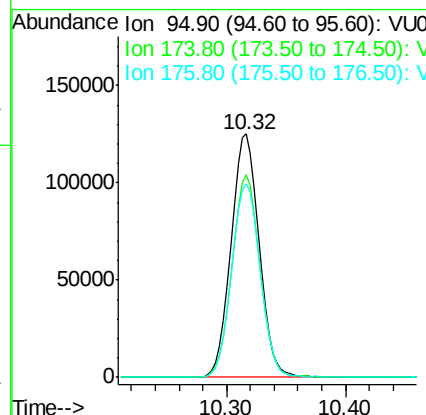
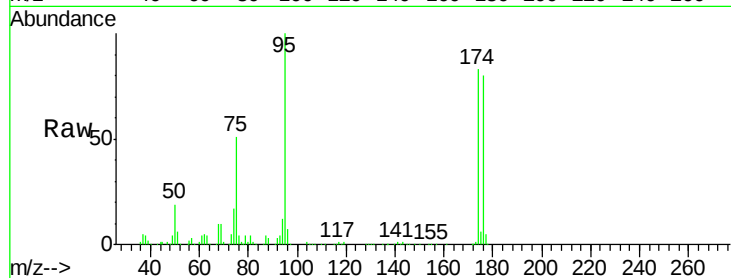




#62
4-Bromofluorobenzene
Concen: 50.74 ug/l
RT: 10.32 min Scan# 3025
Delta R.T. 0.01 min
Lab File: VU024895.D
Acq: 25 Jun 2018 23:49

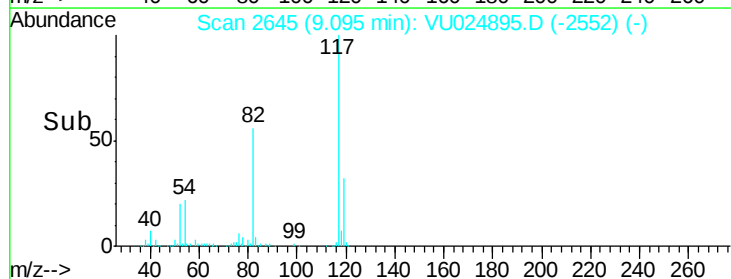
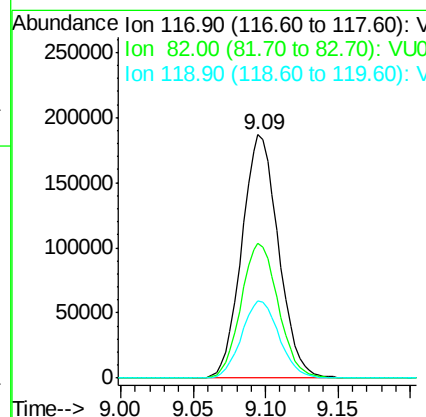
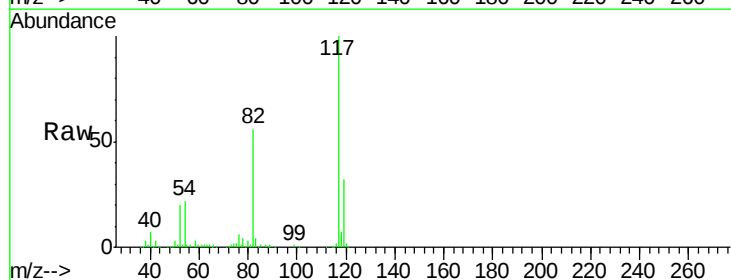
Instrument :
MSVOA_U
ClientSampleId :

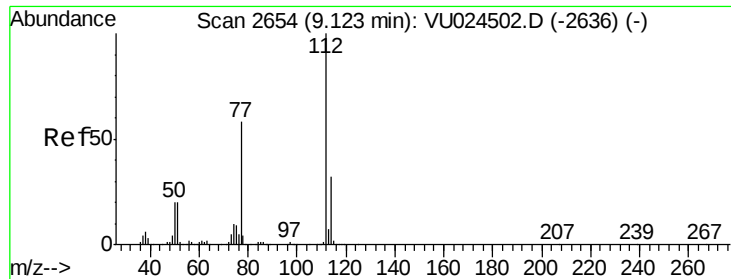
Tot Ion	95	Resp	204580
Ion	Ratio	Lower	Upper
95	100		
174	82.7	0.0	165.8
176	80.7	0.0	159.4



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VU024895.D
Acq: 25 Jun 2018 23:49

Tgt Ion	117	Resp	328075
Ion	Ratio	Lower	Upper
117	100		
82	55.6	44.3	66.5
119	31.5	25.4	38.2

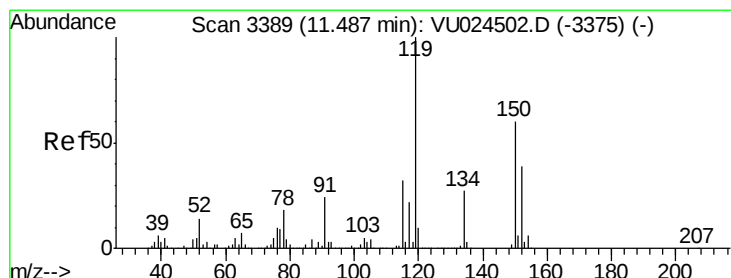
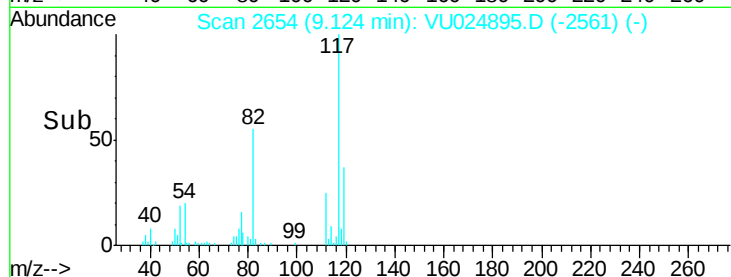
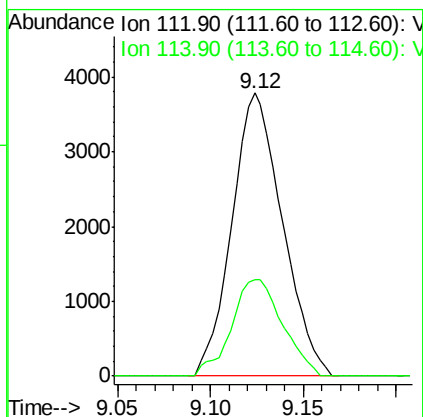
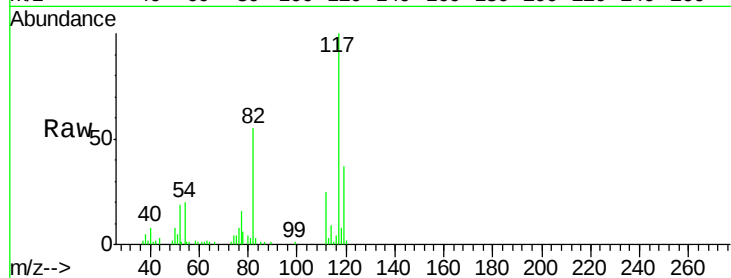




#65
Chlorobenzene
Concen: 0.85 ug/l
RT: 9.12 min Scan# 2654
Delta R.T. 0.00 min
Lab File: VU024895.D
Acq: 25 Jun 2018 23:49

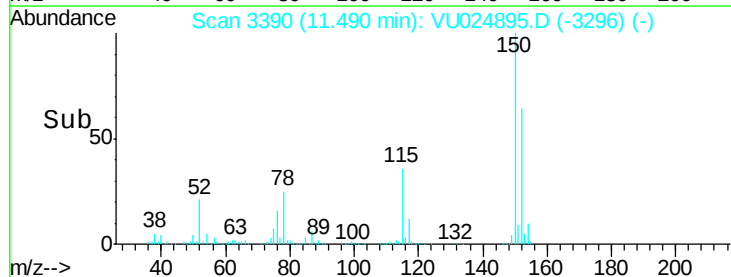
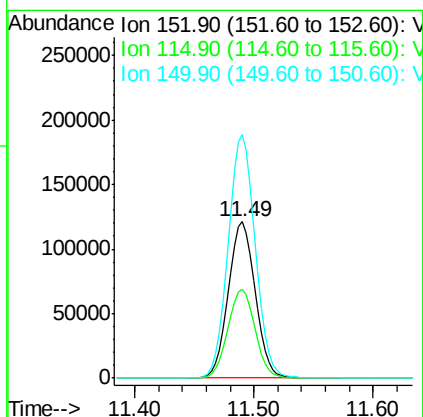
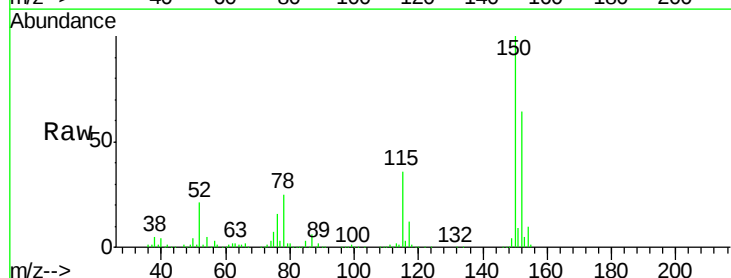
Instrument :
MSVOA_U
ClientSampleId :

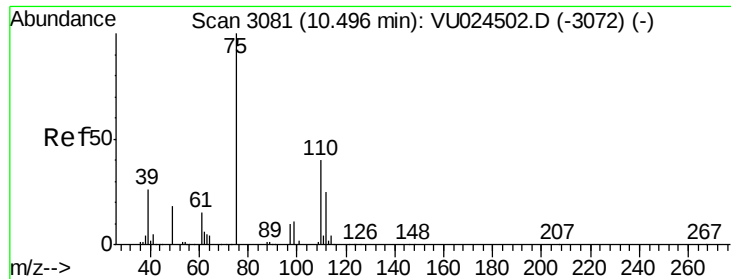
Tot Ion:112 Resp: 7160
Ion Ratio Lower Upper
112 100
114 34.2 25.6 38.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 11.49 min Scan# 3390
Delta R.T. 0.00 min
Lab File: VU024895.D
Acq: 25 Jun 2018 23:49

Tgt Ion:152 Resp: 189854
Ion Ratio Lower Upper
152 100
115 57.4 43.0 129.0
150 156.1 0.0 354.0





#76

1,2,3-Trichloropropane

Concen: 25.06 ug/l

RT: 10.32 min Scan# 3025

Delta R.T. -0.18 min

Lab File: VU024895.D

Acq: 25 Jun 2018 23:49

Instrument :

MSVOA_U

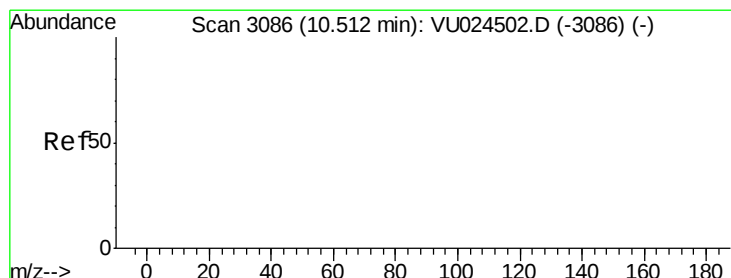
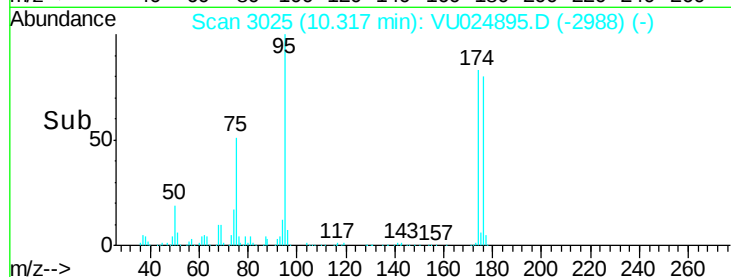
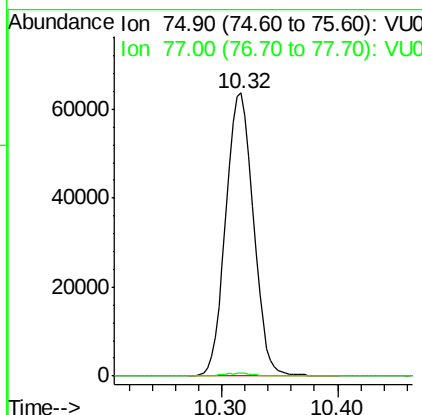
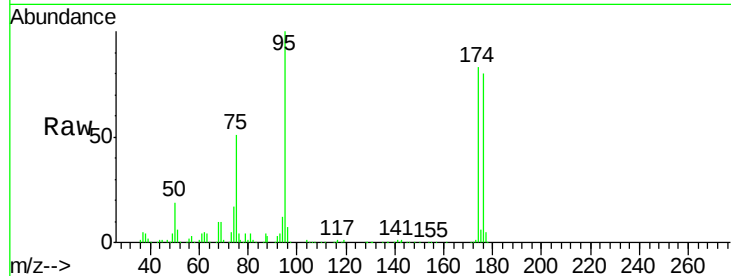
ClientSampleId :

Tot Ion: 75 Resp: 104768

Ion Ratio Lower Upper

75 100

77 1.1 20.9 62.7#



#81

trans-1,4-Dichloro-2-butene

Concen: 58.01 ug/l

RT: 10.32 min Scan# 3025

Delta R.T. -0.20 min

Lab File: VU024895.D

Acq: 25 Jun 2018 23:49

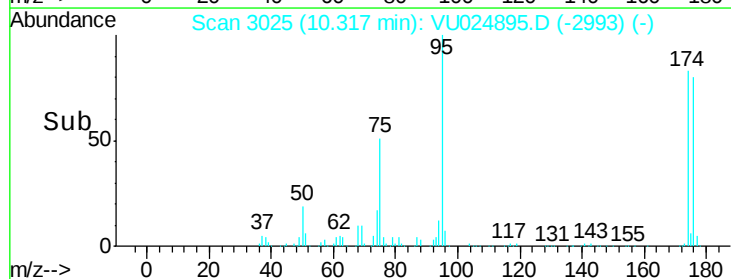
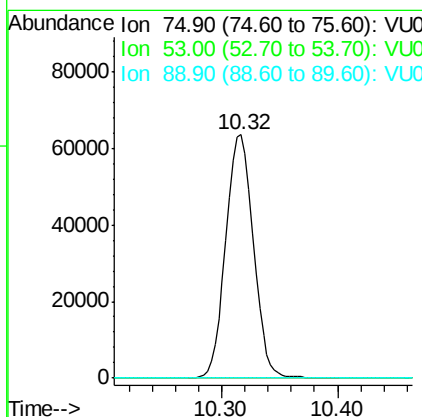
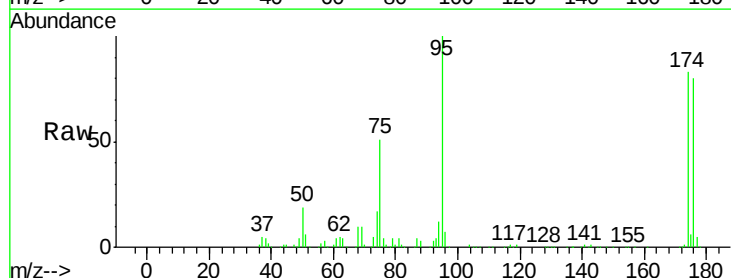
Tgt Ion: 75 Resp: 104768

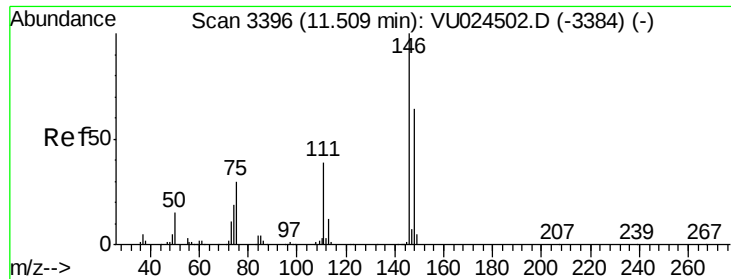
Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

89 0.0 0.0 0.0

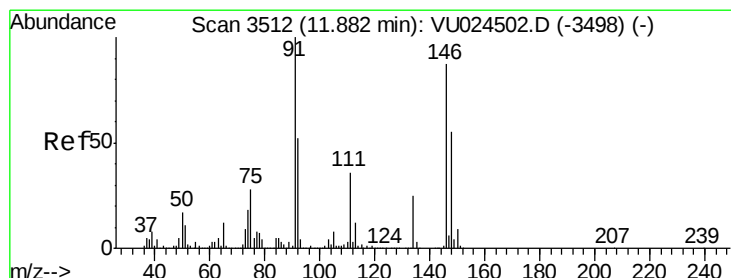
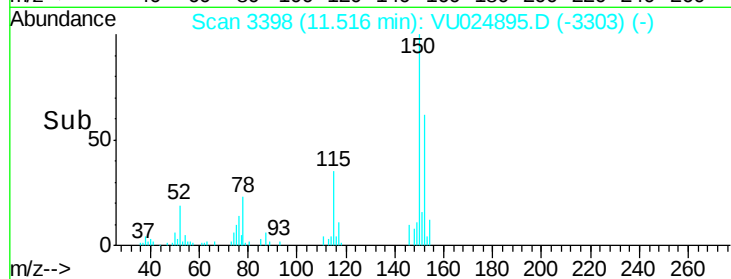
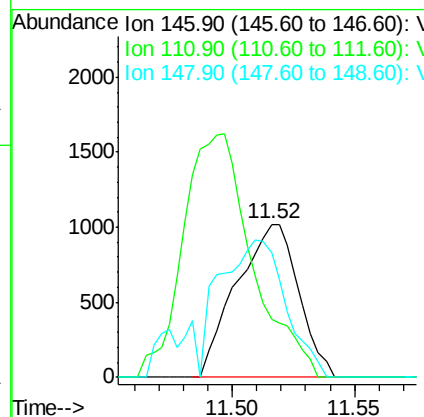
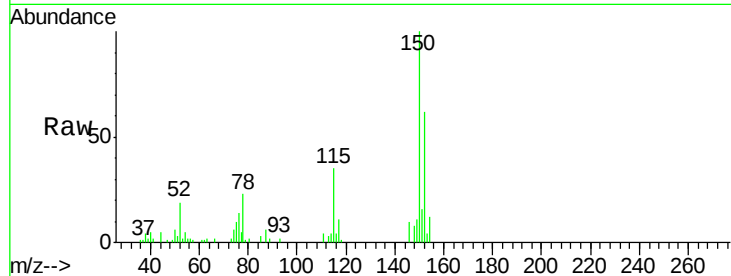




#88
 1,4-Dichlorobenzene
 Concen: 0.26 ug/l
 RT: 11.52 min Scan# 3398
 Delta R.T. 0.01 min
 Lab File: VU024895.D
 Acq: 25 Jun 2018 23:49

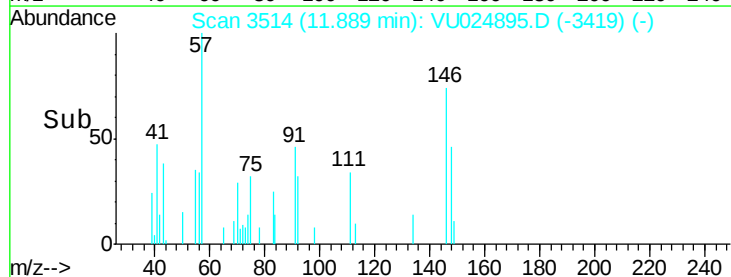
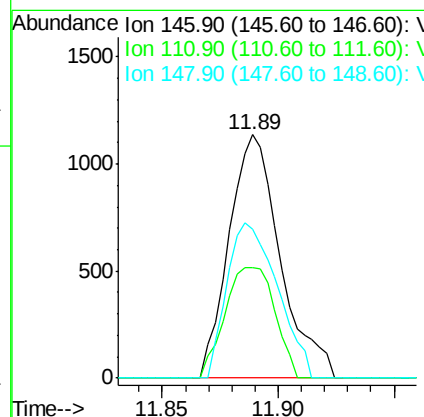
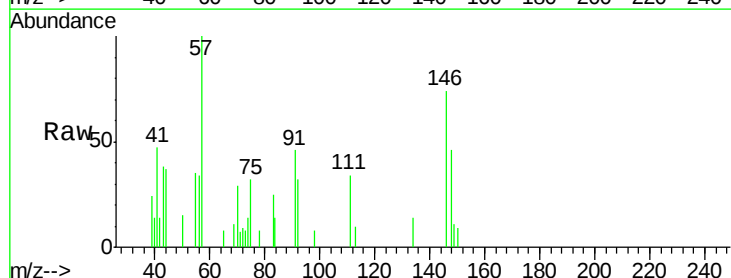
Instrument :
 MSVOA_U
 ClientSampleId :

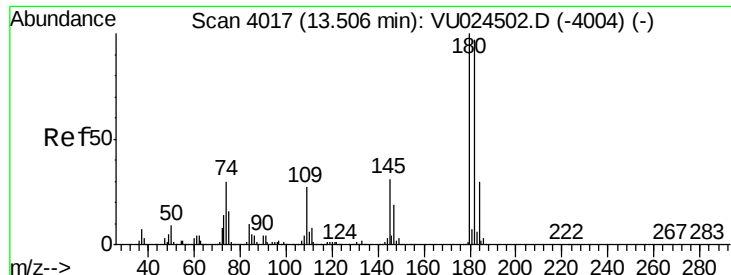
Tot Ion:146 Resp: 1799
 Ion Ratio Lower Upper
 146 100
 111 176.8 19.5 58.5#
 148 95.1 32.4 97.0



#91
 1,2-Dichlorobenzene
 Concen: 0.26 ug/l
 RT: 11.89 min Scan# 3514
 Delta R.T. 0.01 min
 Lab File: VU024895.D
 Acq: 25 Jun 2018 23:49

Tgt Ion:146 Resp: 1745
 Ion Ratio Lower Upper
 146 100
 111 44.2 20.5 61.6
 148 62.8 31.9 95.7

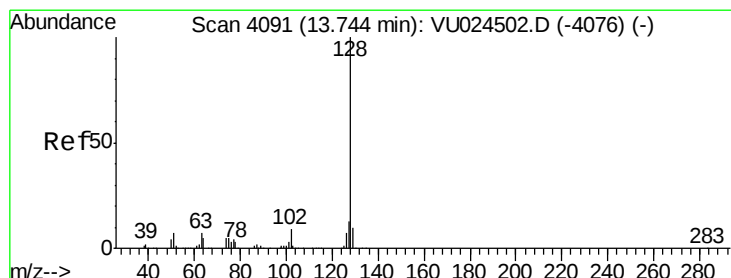
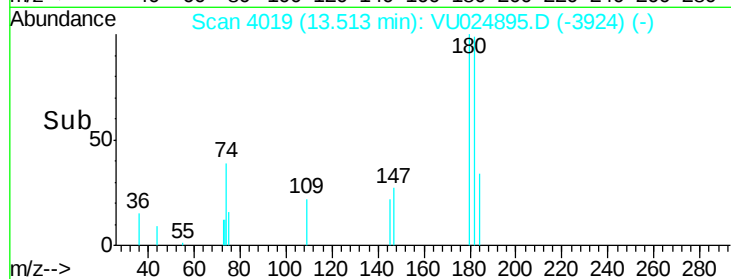
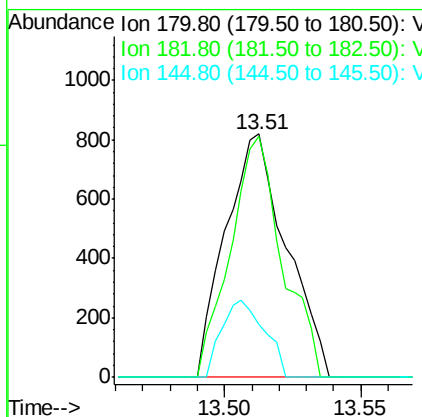
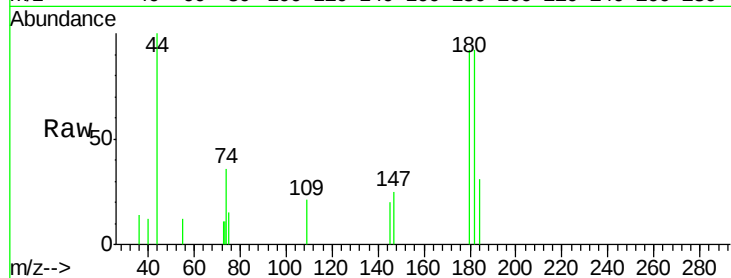




#93
 1,2,4-Trichlorobenzene
 Concen: 0.30 ug/l
 RT: 13.51 min Scan# 4019
 Delta R.T. 0.01 min
 Lab File: VU024895.D
 Acq: 25 Jun 2018 23:49

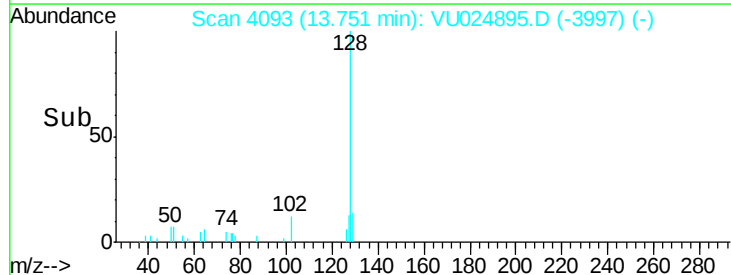
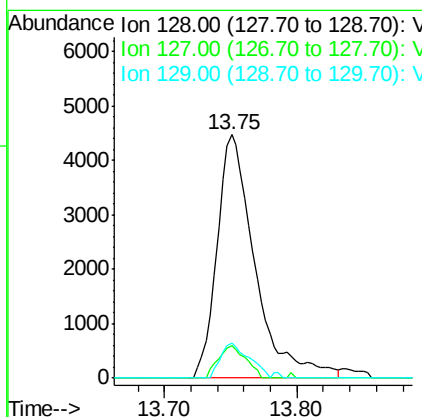
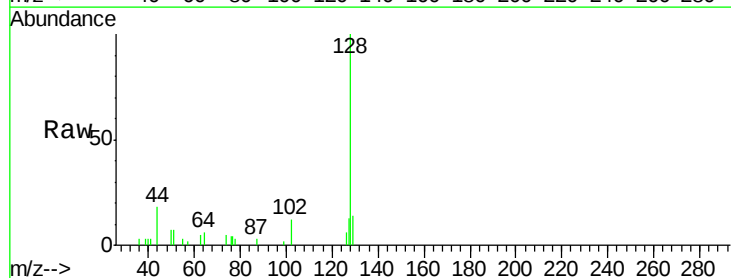
Instrument :
 MSVOA_U
 ClientSampled :

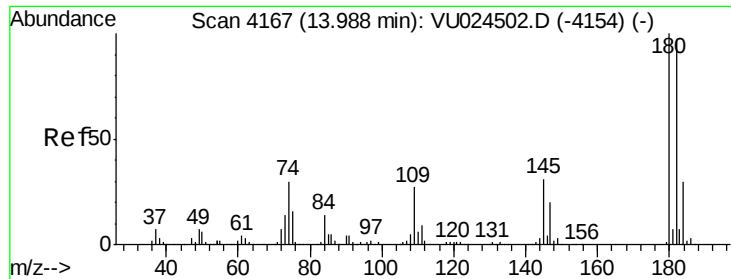
Tot Ion:180 Resp: 1264
 Ion Ratio Lower Upper
 180 100
 182 84.7 48.0 144.2
 145 22.3 14.7 44.1



#95
 Naphthalene
 Concen: 1.31 ug/l
 RT: 13.75 min Scan# 4093
 Delta R.T. 0.01 min
 Lab File: VU024895.D
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Tgt Ion:128 Resp: 8875
 Ion Ratio Lower Upper
 128 100
 127 9.6 10.6 16.0#
 129 10.7 8.6 12.8





#96
 1,2,3-Trichlorobenzene
 Concen: 0.42 ug/l
 RT: 13.99 min Scan# 4168
 Delta R.T. 0.00 min
 Lab File: VU024895.D
 Acq: 25 Jun 2018 23:49

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:180 Resp: 1760
 Ion Ratio Lower Upper
 180 100
 182 81.1 47.9 143.7
 145 27.2 15.4 46.1

