

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU062018\
 Data File : VU024780.D
 Acq On : 21 Jun 2018 01:13
 Operator : MD/SY
 Sample : J3581-02
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 SSP-A-COMPOSITE

Quant Time: Jun 21 07:56:53 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U061318W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 13 13:55:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	196800	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	304660	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	285258	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	158186	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	138527	43.12	ug/l	0.00
Spiked Amount			Recovery	=	86.24%	
35) Dibromofluoromethane	4.89	113	119093	47.10	ug/l	0.00
Spiked Amount			Recovery	=	94.20%	
50) Toluene-d8	7.57	98	444465	48.19	ug/l	0.00
Spiked Amount			Recovery	=	96.38%	
62) 4-Bromofluorobenzene	10.31	95	163166	44.56	ug/l	0.00
Spiked Amount			Recovery	=	89.12%	

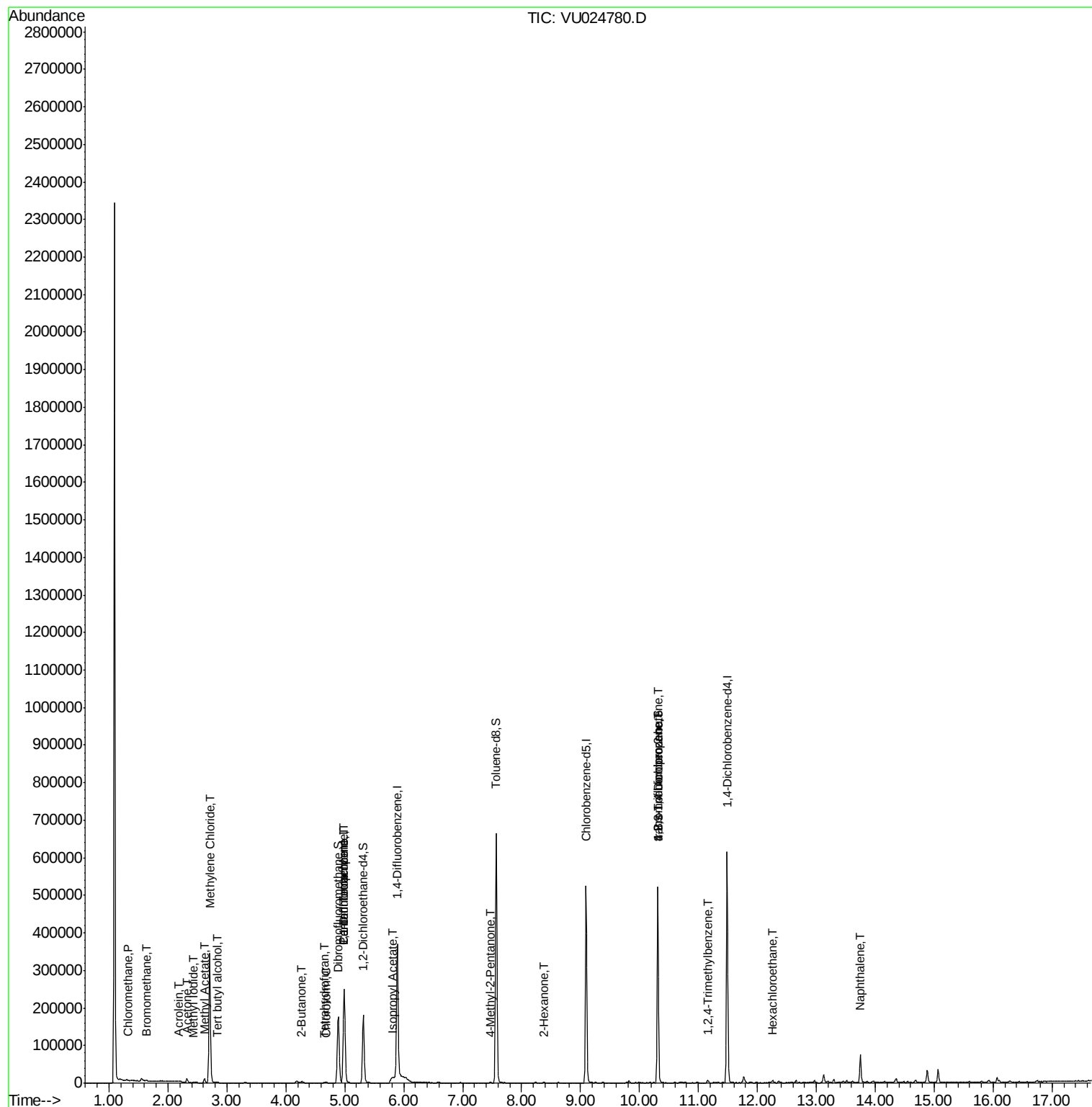
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	735	0.292	ug/l	99
5) Bromomethane	1.64	94	577	0.460	ug/l #	76
6) Chloroethane	1.69	64	119	Below Cal	#	43
10) Methyl Iodide	2.43	142	352	5.440	ug/l #	47
11) Tert butyl alcohol	2.82	59	2169	2.776	ug/l #	83
13) Acrolein	2.18	56	114	0.278	ug/l #	1
16) Acetone	2.32	43	11421	6.616	ug/l	94
18) Methyl Acetate	2.62	43	13495	3.647	ug/l	99
20) Methylene Chloride	2.71	84	153984	56.850	ug/l	98
25) 2-Butanone	4.27	43	6234	2.689	ug/l	97
29) Tetrahydrofuran	4.64	42	951	0.662	ug/l #	46
30) Chloroform	4.68	83	1276	0.266	ug/l	84
31) Cyclohexane	4.99	56	4204	Below Cal	#	1
36) 1,1-Dichloropropene	4.99	75	13243	3.699	ug/l #	51
38) Carbon Tetrachloride	4.99	117	18229	4.630	ug/l #	17
43) Isopropyl Acetate	5.81	43	14895	2.208	ug/l #	63
51) 4-Methyl-2-Pentanone	7.47	43	1440	0.340	ug/l	90
59) 2-Hexanone	8.37	43	1848	0.534	ug/l	91
76) 1,2,3-Trichloropropane	10.31	75	84869	24.369	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.31	75	84869	56.400	ug/l #	100
84) 1,2,4-Trimethylbenzene	11.16	105	3145	0.293	ug/l	94
90) Hexachloroethane	12.26	117	448	0.202	ug/l #	8
95) Naphthalene	13.75	128	60198	5.784	ug/l	99

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.00 min

Lab File: VU024780.D

Acq: 21 Jun 2018 01:13

Instrument :

MSVOA_U

ClientSampleId :

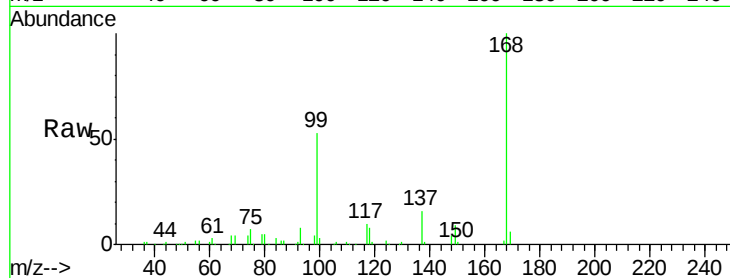
SSP-A-COMPOSITE

Tgt Ion:168 Resp: 196800

Ion Ratio Lower Upper

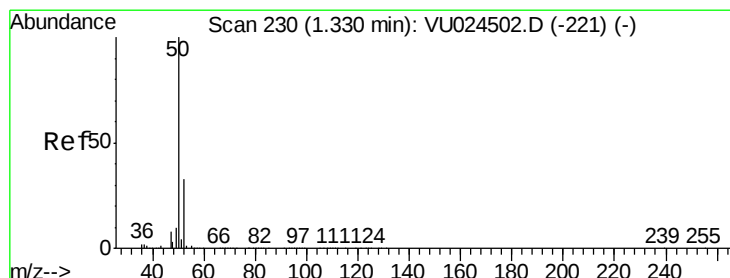
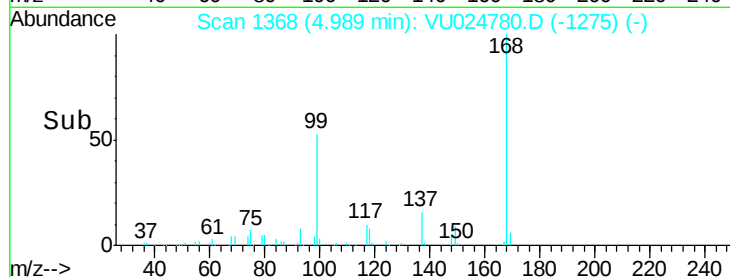
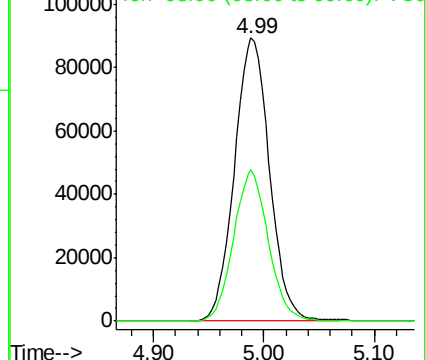
168 100

99 53.4 43.2 64.8



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

Ion 98.90 (98.60 to 99.60): VU024502.D



#3

Chloromethane

Concen: 0.292 ug/l

RT: 1.33 min Scan# 231

Delta R.T. 0.00 min

Lab File: VU024780.D

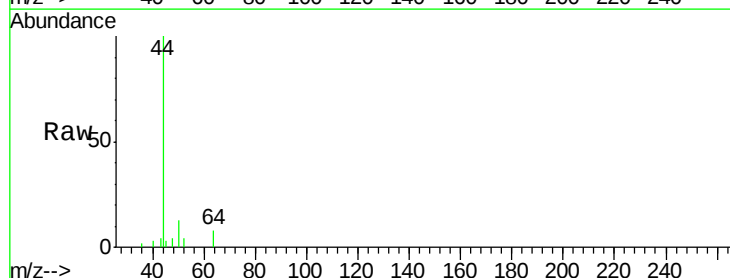
Acq: 21 Jun 2018 01:13

Tgt Ion: 50 Resp: 735

Ion Ratio Lower Upper

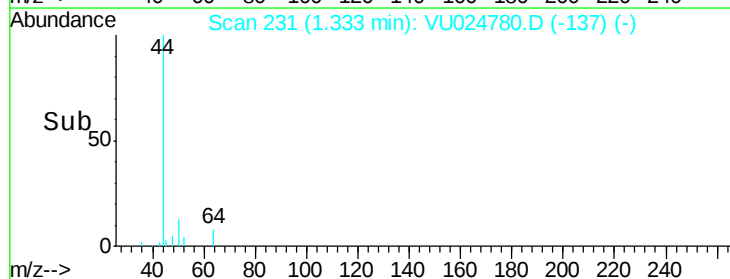
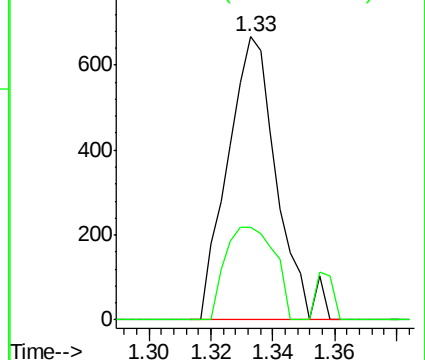
50 100

52 32.5 26.4 39.6



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

Ion 51.90 (51.60 to 52.60): VU024502.D





#5

Bromomethane

Concen: 0.460 ug/l

RT: 1.64 min Scan# 327

Delta R.T. 0.02 min

Lab File: VU024780.D

Acq: 21 Jun 2018 01:13

Instrument :

MSVOA_U

ClientSampleId :

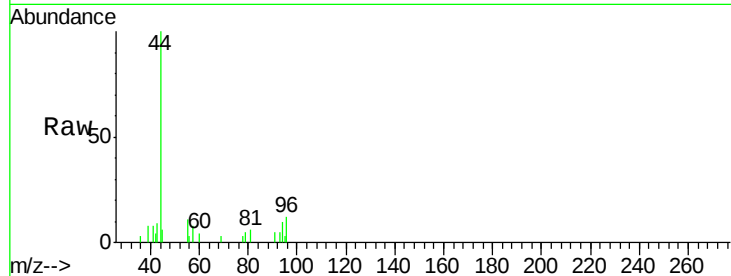
SSP-A-COMPOSITE

Tgt Ion: 94 Resp: 577

Ion Ratio Lower Upper

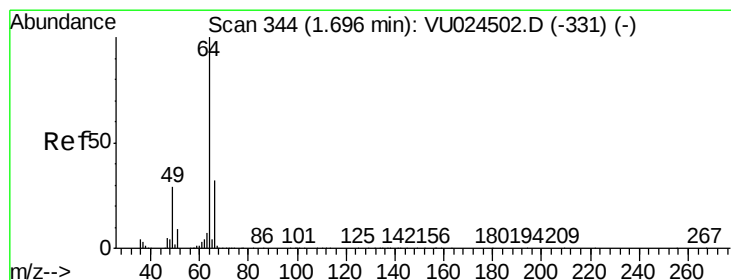
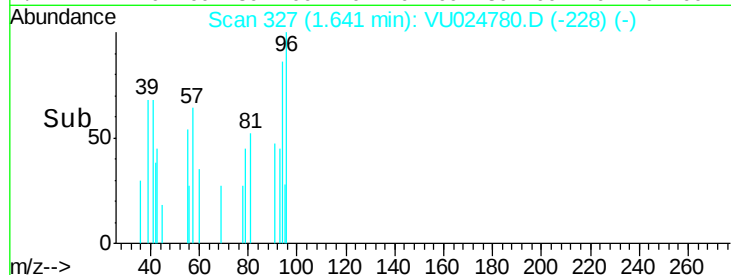
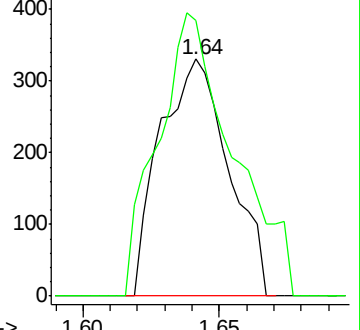
94 100

96 116.0 74.5 111.7#



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0



#6

Chloroethane

Concen: Below Cal

RT: 1.69 min Scan# 342

Delta R.T. -0.01 min

Lab File: VU024780.D

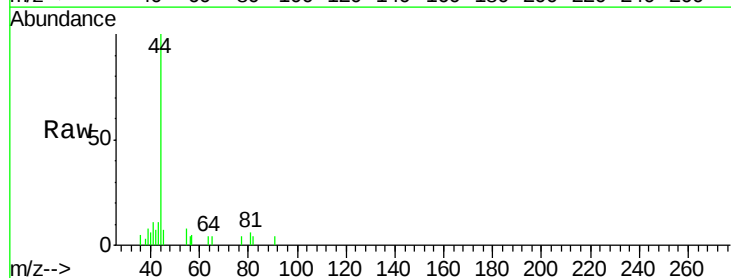
Acq: 21 Jun 2018 01:13

Tgt Ion: 64 Resp: 119

Ion Ratio Lower Upper

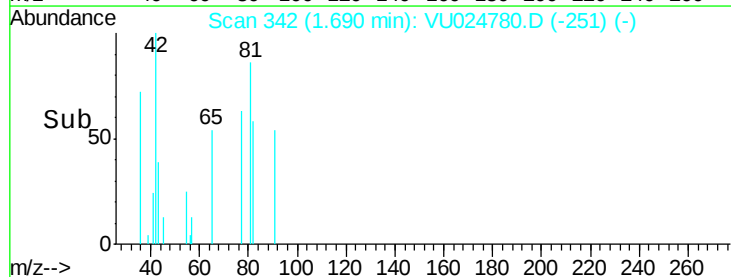
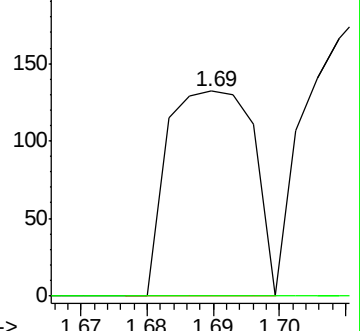
64 100

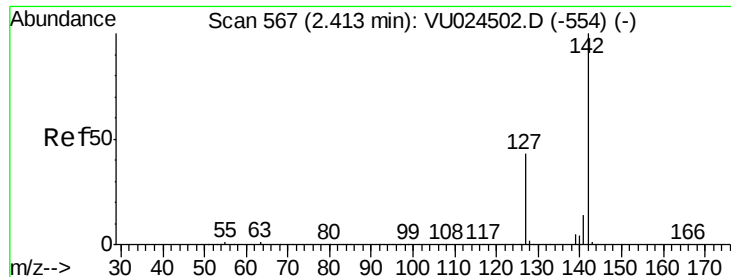
66 0.0 25.5 38.3#



Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0

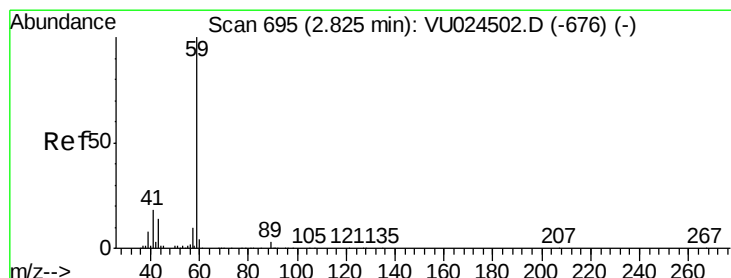
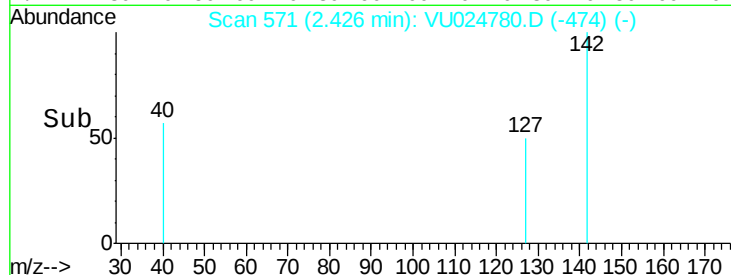
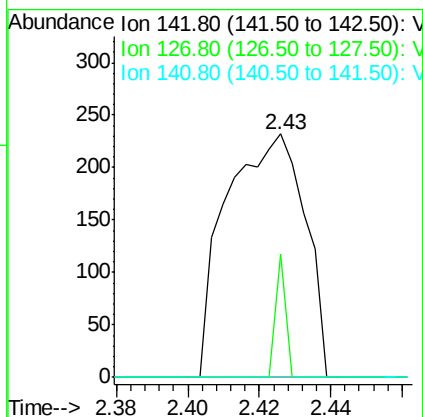
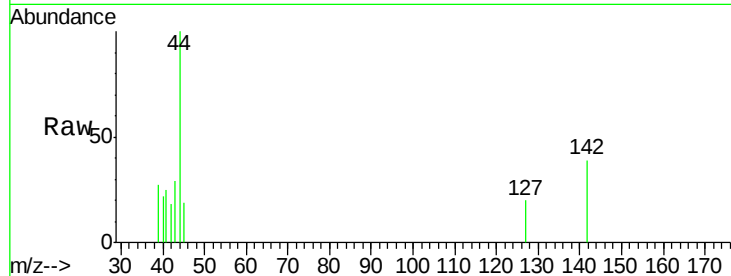




#10
Methyl Iodide
Concen: 5.440 ug/l
RT: 2.43 min Scan# 571
Delta R.T. 0.01 min
Lab File: VU024780.D
Acq: 21 Jun 2018 01:13

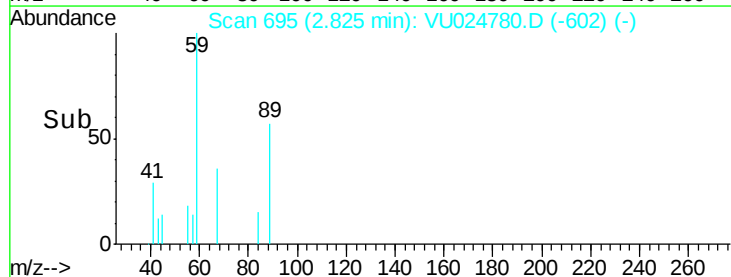
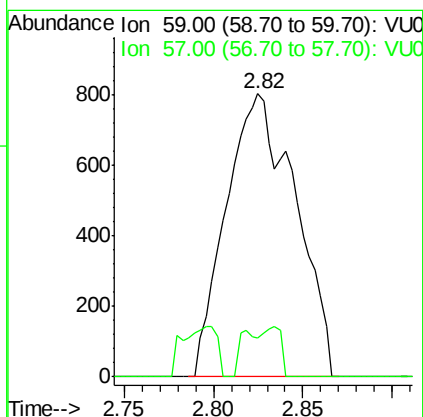
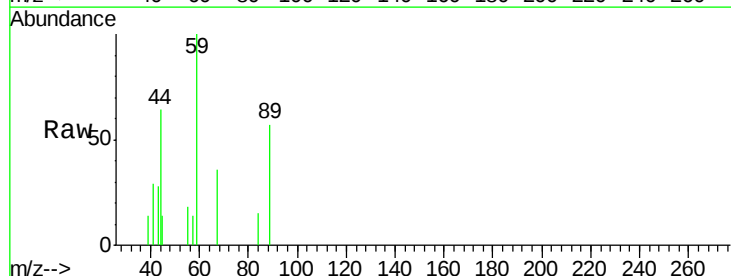
Instrument :
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ClientSampleId :
SSP-A-COMPOSITE

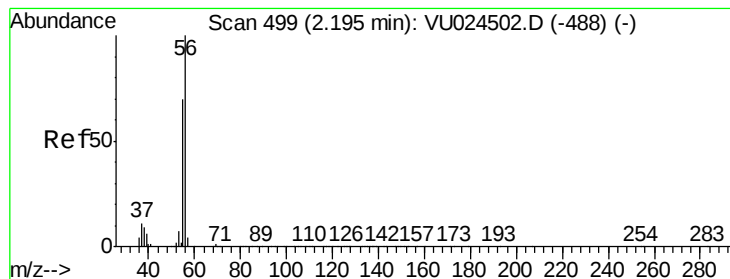
Tgt Ion: 142 Resp: 352
Ion Ratio Lower Upper
142 100
127 6.5 35.6 53.4#
141 0.0 11.7 17.5#



#11
Tert butyl alcohol
Concen: 2.776 ug/l
RT: 2.82 min Scan# 695
Delta R.T. -0.00 min
Lab File: VU024780.D
Acq: 21 Jun 2018 01:13

Tgt Ion: 59 Resp: 2169
Ion Ratio Lower Upper
59 100
57 4.2 8.5 12.7#





#13

Acrolein

Concen: 0.278 ug/l

RT: 2.18 min Scan# 495

Delta R.T. -0.01 min

Lab File: VU024780.D

Acq: 21 Jun 2018 01:13

Instrument :

MSVOA_U

ClientSampleId :

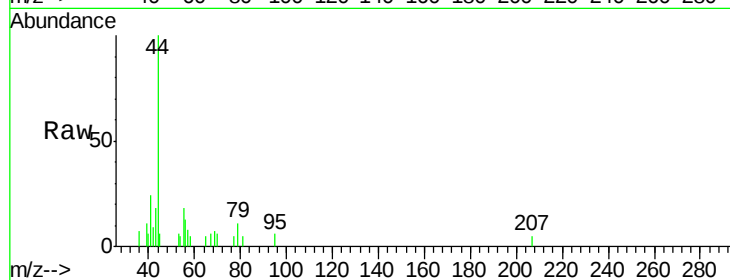
SSP-A-COMPOSITE

Tgt Ion: 56 Resp: 114

Ion Ratio Lower Upper

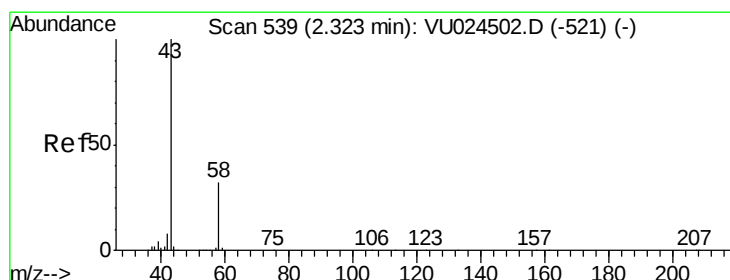
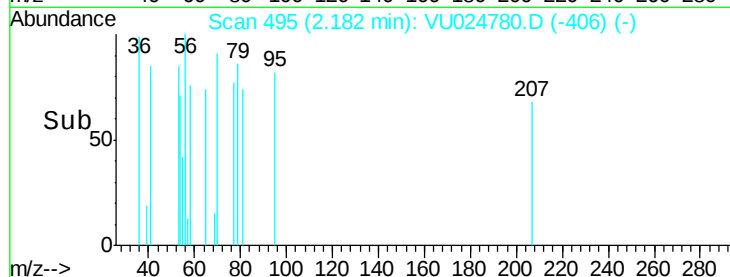
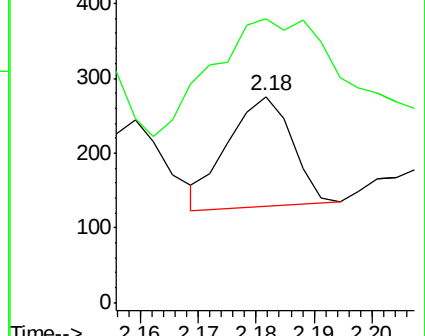
56 100

55 294.7 58.4 87.6#



Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 55.00 (54.70 to 55.70): VU0



#16

Acetone

Concen: 6.616 ug/l

RT: 2.32 min Scan# 538

Delta R.T. -0.00 min

Lab File: VU024780.D

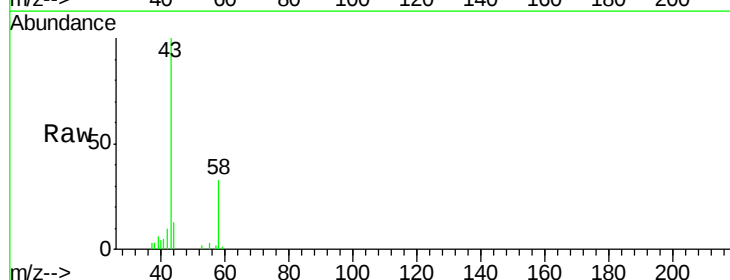
Acq: 21 Jun 2018 01:13

Tgt Ion: 43 Resp: 11421

Ion Ratio Lower Upper

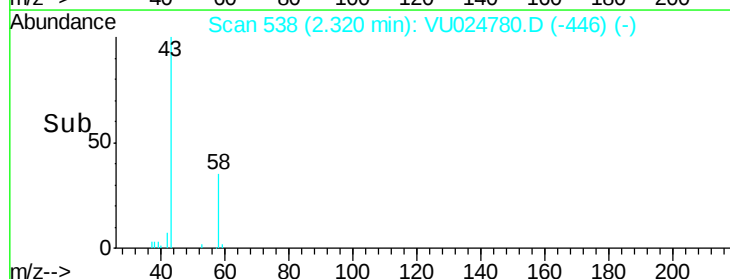
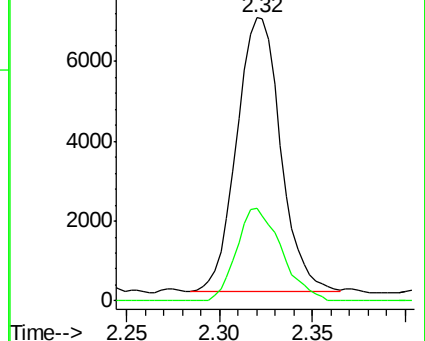
43 100

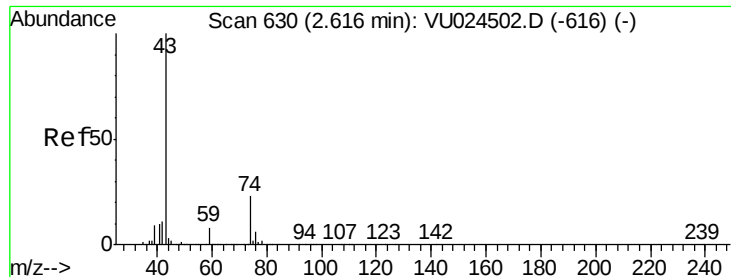
58 33.9 24.4 36.6



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

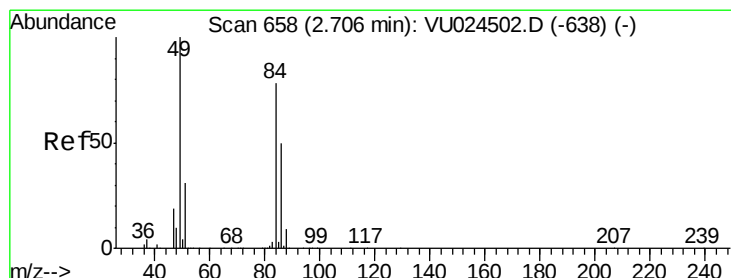
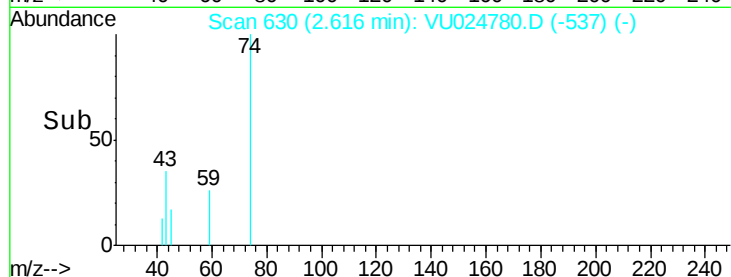
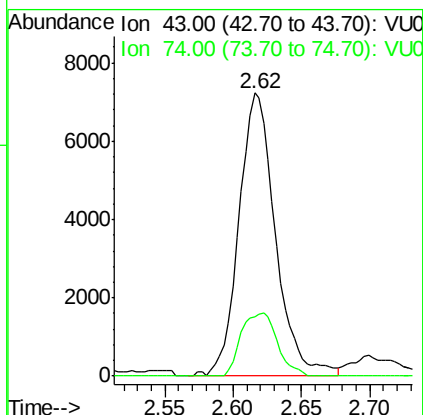
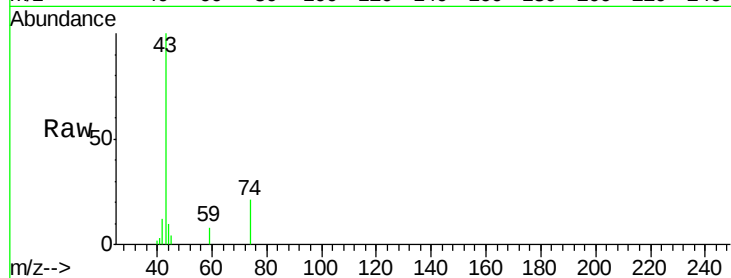




#18
Methyl Acetate
Concen: 3.647 ug/l
RT: 2.62 min Scan# 630
Delta R.T. -0.00 min
Lab File: VU024780.D
Acq: 21 Jun 2018 01:13

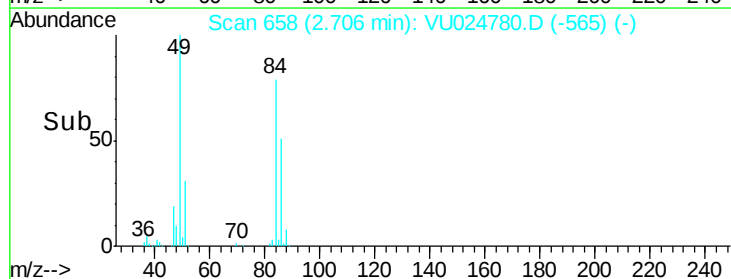
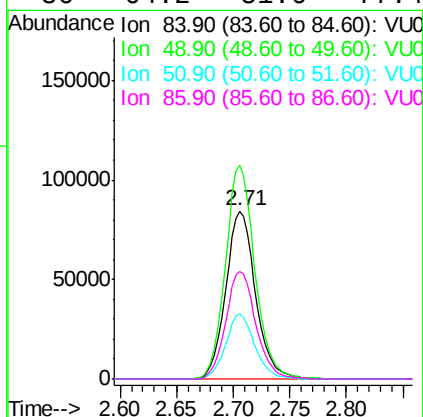
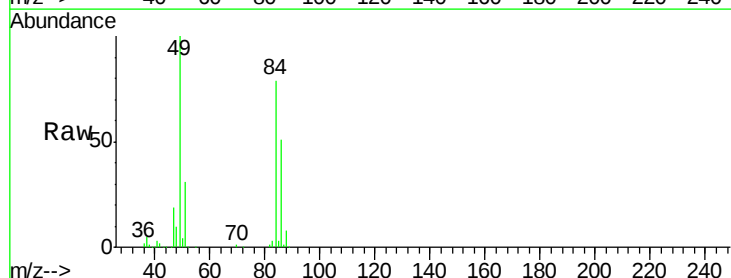
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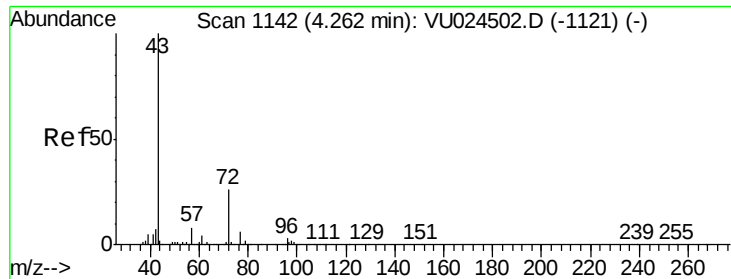
Tgt Ion: 43 Resp: 13495
Ion Ratio Lower Upper
43 100
74 22.0 18.0 27.0



#20
Methylene Chloride
Concen: 56.850 ug/l
RT: 2.71 min Scan# 658
Delta R.T. -0.00 min
Lab File: VU024780.D
Acq: 21 Jun 2018 01:13

Tgt Ion: 84 Resp: 153984
Ion Ratio Lower Upper
84 100
49 127.1 103.8 155.8
51 38.8 32.0 48.0
86 64.2 51.6 77.4

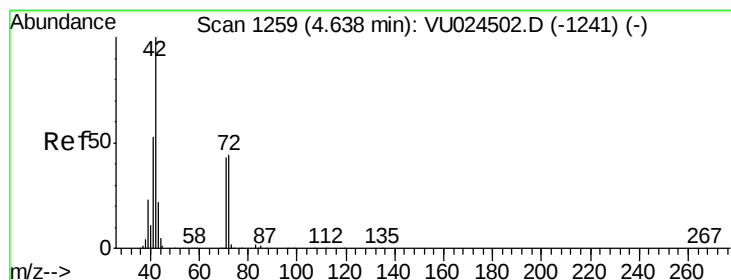
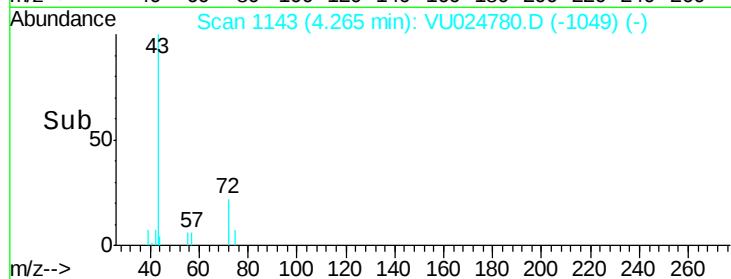
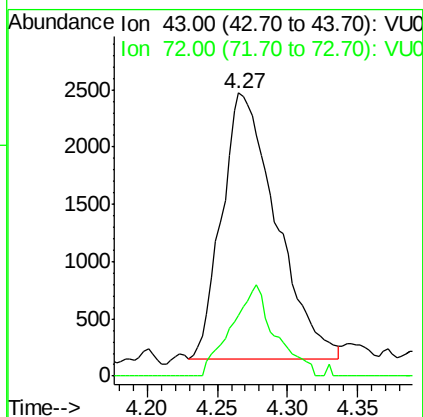
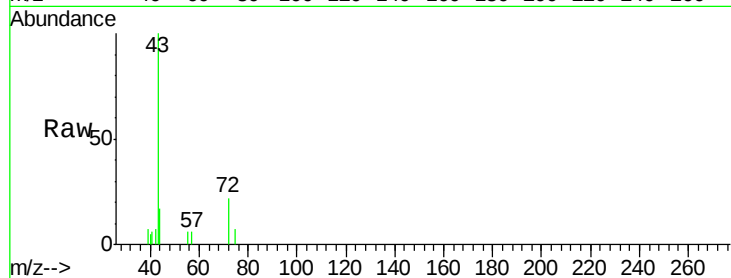




#25
2-Butanone
Concen: 2.689 ug/l
RT: 4.27 min Scan# 1143
Delta R.T. 0.00 min
Lab File: VU024780.D
Acq: 21 Jun 2018 01:13

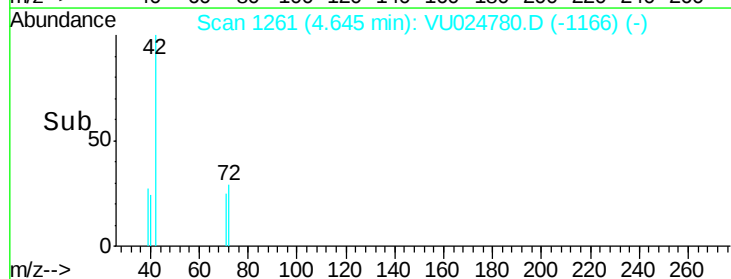
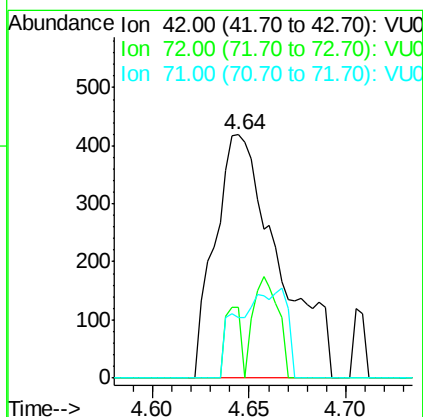
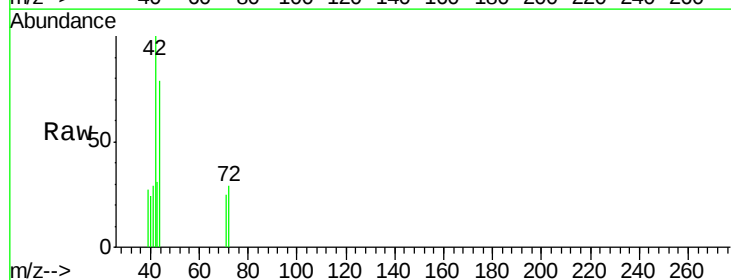
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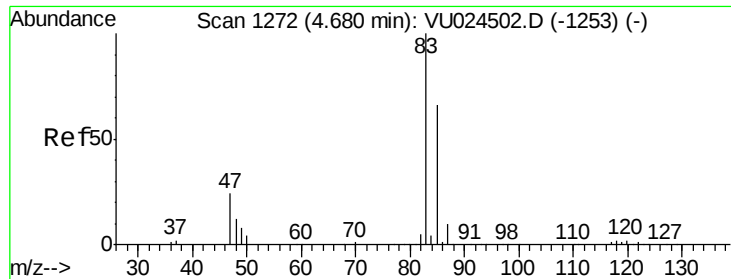
Tgt Ion: 43 Resp: 6234
Ion Ratio Lower Upper
43 100
72 23.1 19.6 29.4



#29
Tetrahydrofuran
Concen: 0.662 ug/l
RT: 4.64 min Scan# 1261
Delta R.T. 0.01 min
Lab File: VU024780.D
Acq: 21 Jun 2018 01:13

Tgt Ion: 42 Resp: 951
Ion Ratio Lower Upper
42 100
72 7.0 34.5 51.7#
71 8.5 32.2 48.4#





#30

Chloroform

Concen: 0.266 ug/l

RT: 4.68 min Scan# 1272

Delta R.T. -0.00 min

Lab File: VU024780.D

Acq: 21 Jun 2018 01:13

Instrument :

MSVOA_U

ClientSampleId :

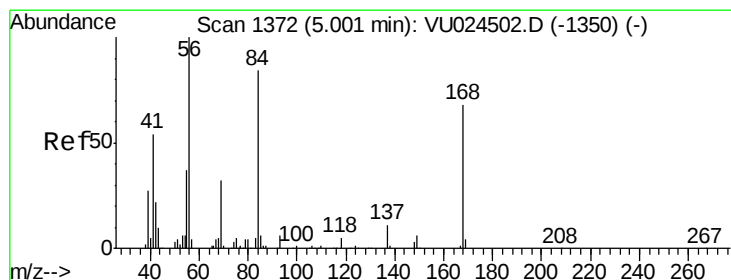
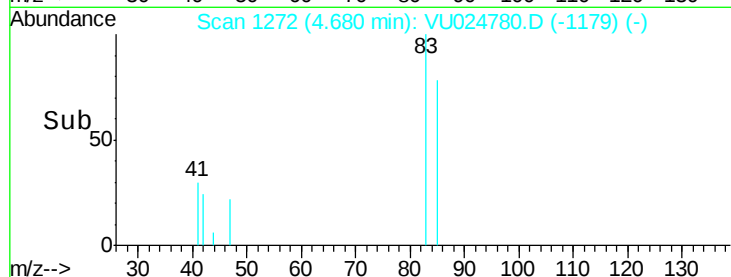
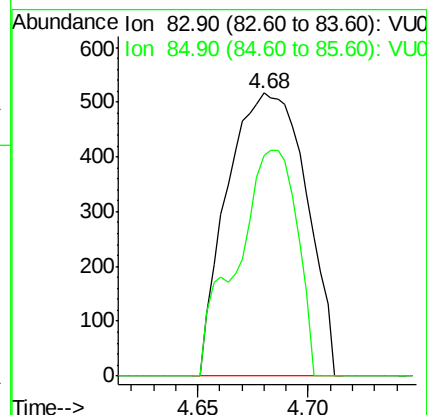
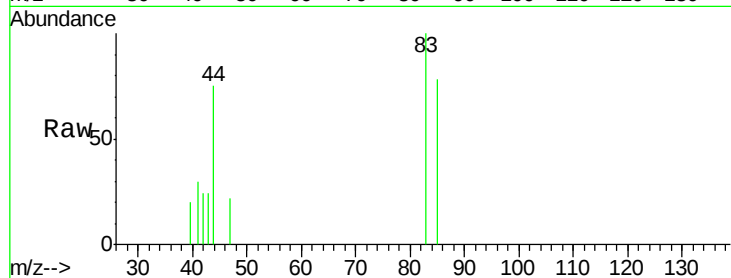
SSP-A-COMPOSITE

Tgt Ion: 83 Resp: 1276

Ion Ratio Lower Upper

83 100

85 77.9 52.4 78.6



#31

Cyclohexane

Concen: Below Cal

RT: 4.99 min Scan# 1367

Delta R.T. -0.02 min

Lab File: VU024780.D

Acq: 21 Jun 2018 01:13

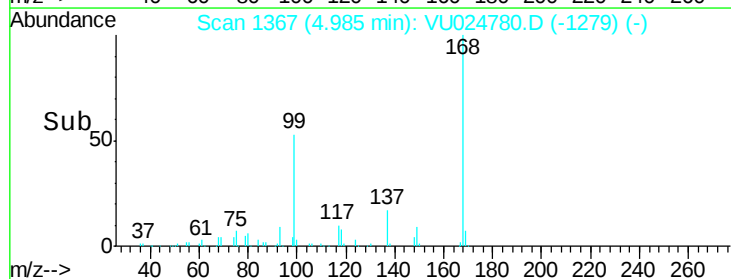
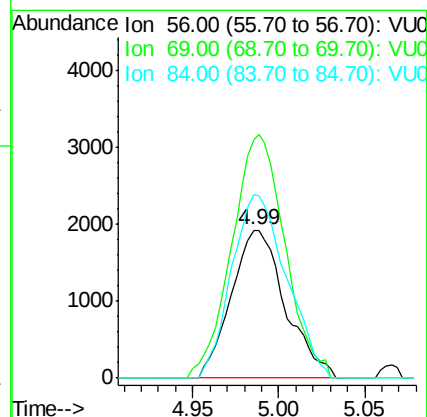
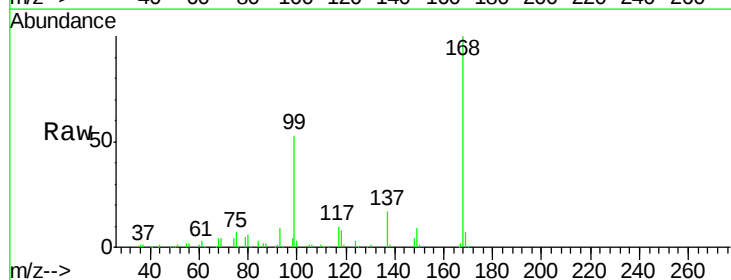
Tgt Ion: 56 Resp: 4204

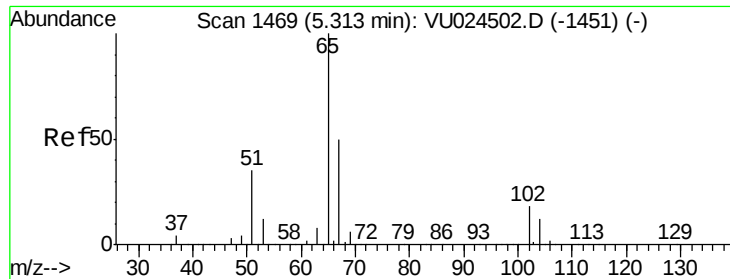
Ion Ratio Lower Upper

56 100

69 160.7 24.8 37.2#

84 123.6 65.2 97.8#

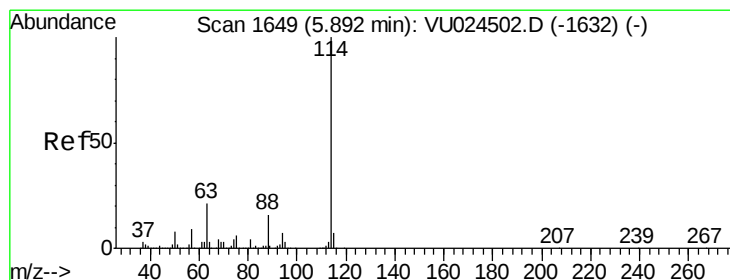
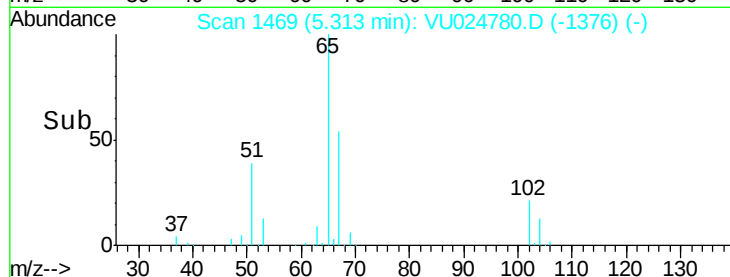
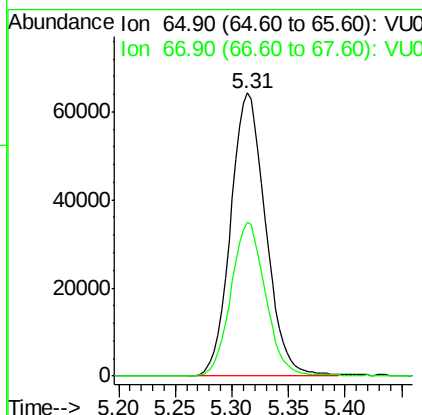
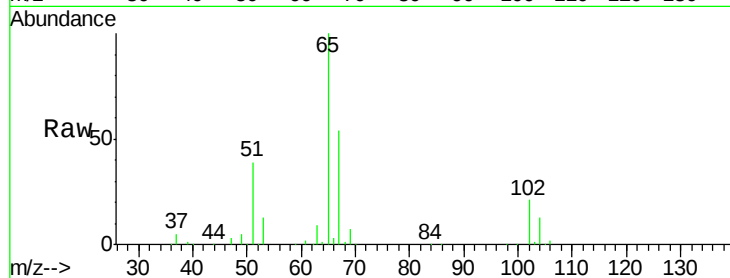




#33
 1,2-Dichloroethane-d4
 Concen: 43.117 ug/l
 RT: 5.31 min Scan# 1469
 Delta R.T. -0.00 min
 Lab File: VU024780.D
 Acq: 21 Jun 2018 01:13

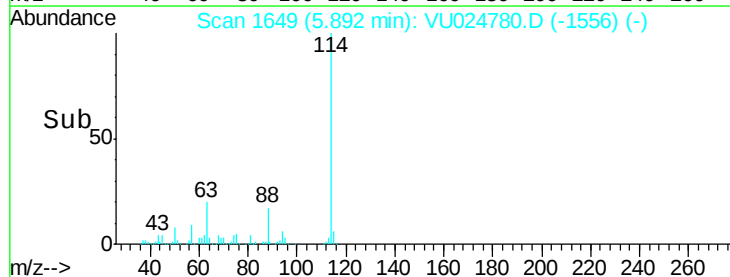
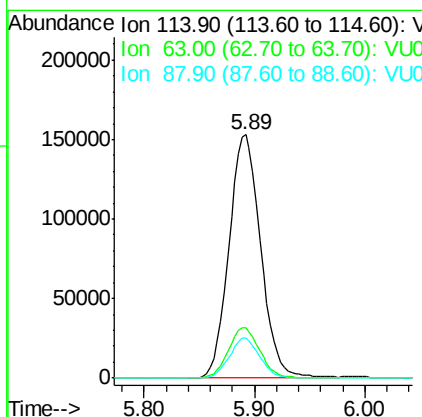
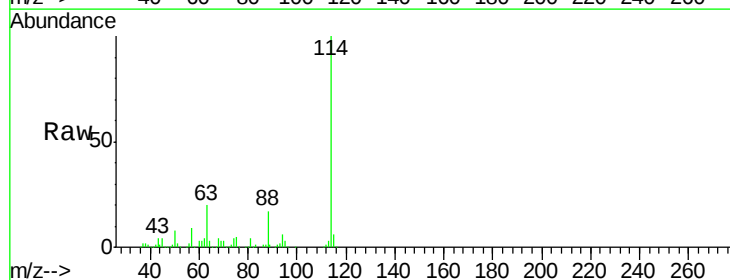
Instrument :
 MSVOA_U
 ClientSampleId :
 SSP-A-COMPOSITE

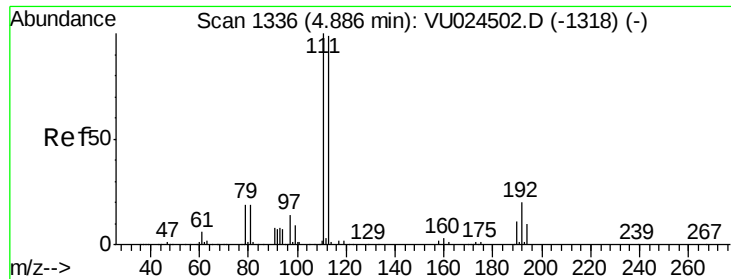
Tgt Ion: 65 Resp: 138527
 Ion Ratio Lower Upper
 65 100
 67 53.3 0.0 107.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1649
 Delta R.T. -0.00 min
 Lab File: VU024780.D
 Acq: 21 Jun 2018 01:13

Tgt Ion: 114 Resp: 304660
 Ion Ratio Lower Upper
 114 100
 63 20.5 0.0 45.4
 88 16.5 0.0 31.0

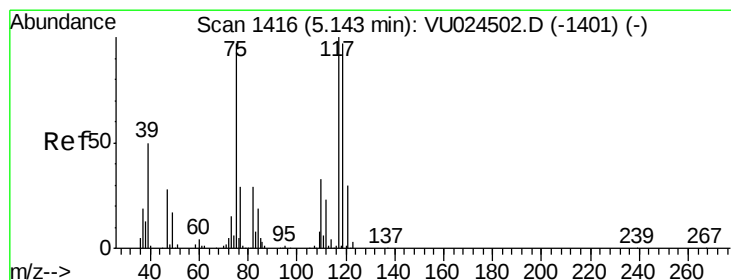
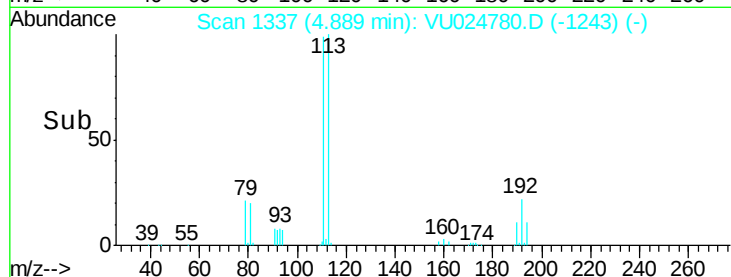
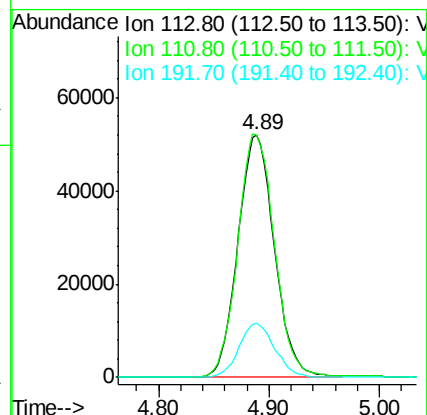
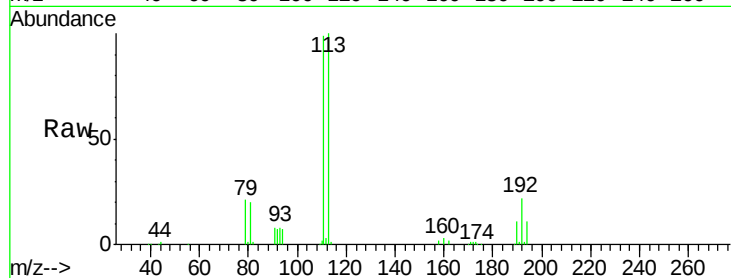




#35
 Dibromofluoromethane
 Concen: 47.101 ug/l
 RT: 4.89 min Scan# 1337
 Delta R.T. 0.00 min
 Lab File: VU024780.D
 Acq: 21 Jun 2018 01:13

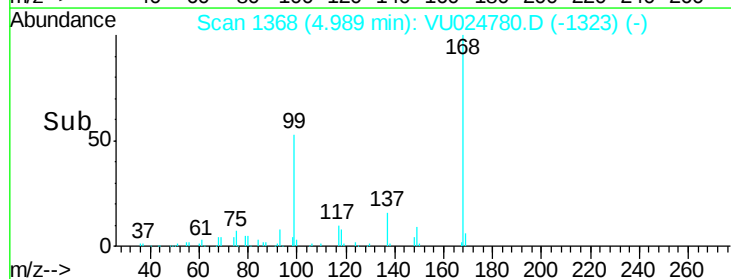
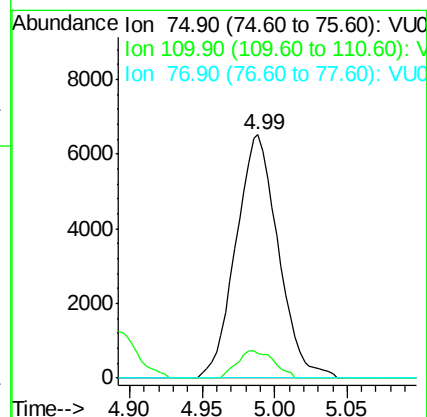
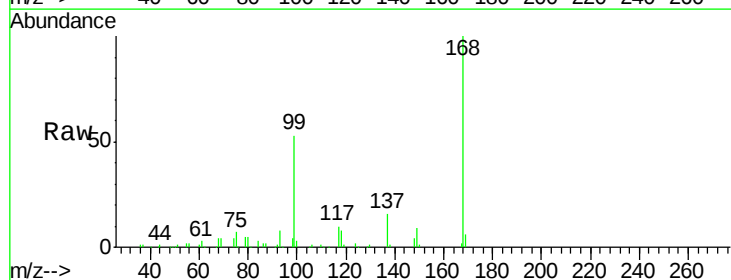
Instrument :
 MSVOA_U
 ClientSampleId :
 SSP-A-COMPOSITE

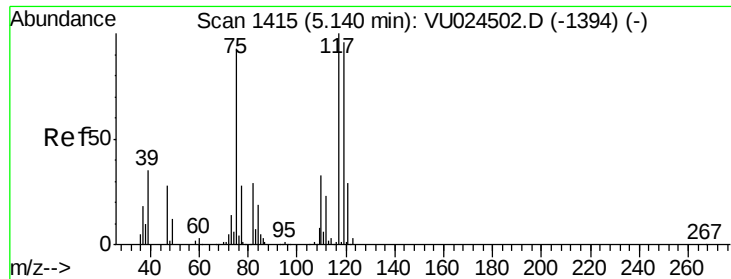
Tgt Ion	Ratio	Lower	Upper
113	100		
111	100.9	82.2	123.4
192	21.8	16.2	24.4



#36
 1,1-Dichloropropene
 Concen: 3.699 ug/l
 RT: 4.99 min Scan# 1368
 Delta R.T. -0.15 min
 Lab File: VU024780.D
 Acq: 21 Jun 2018 01:13

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.7	17.0	50.9#
77	0.0	24.2	36.4#





#38

Carbon Tetrachloride

Concen: 4.630 ug/l

RT: 4.99 min Scan# 1367

Delta R.T. -0.15 min

Lab File: VU024780.D

Acq: 21 Jun 2018 01:13

Instrument :

MSVOA_U

ClientSampleId :

SSP-A-COMPOSITE

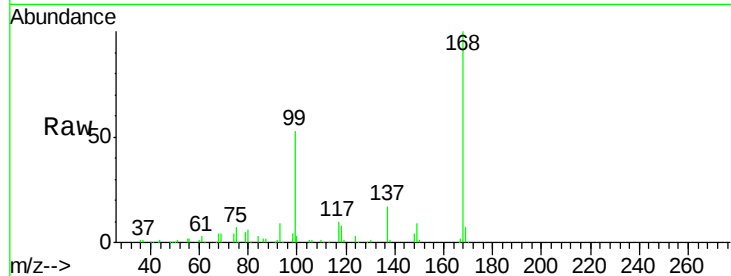
Tgt Ion:117 Resp: 18229

Ion Ratio Lower Upper

117 100

119 5.5 76.1 114.1#

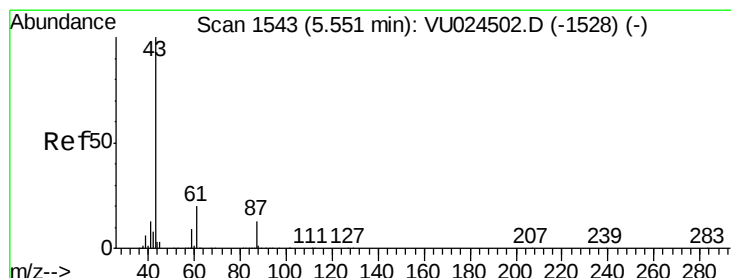
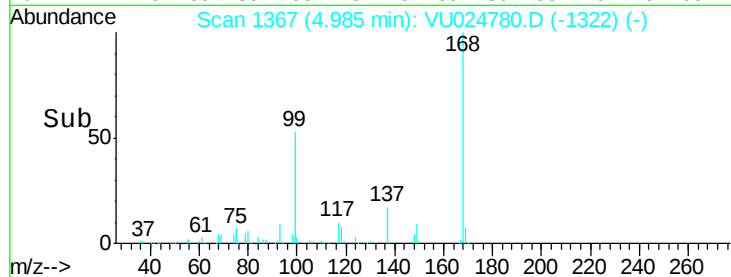
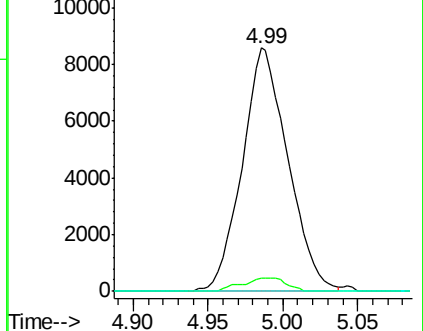
121 0.0 23.7 35.5#



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



#43

Isopropyl Acetate

Concen: 2.208 ug/l

RT: 5.81 min Scan# 1624

Delta R.T. 0.26 min

Lab File: VU024780.D

Acq: 21 Jun 2018 01:13

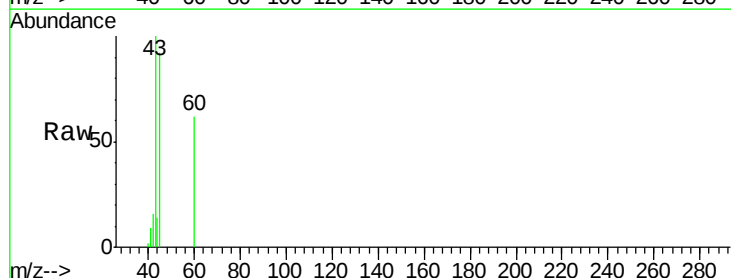
Tgt Ion: 43 Resp: 14895

Ion Ratio Lower Upper

43 100

61 0.6 15.4 23.0#

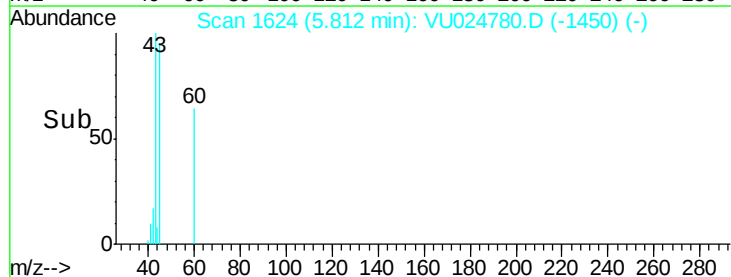
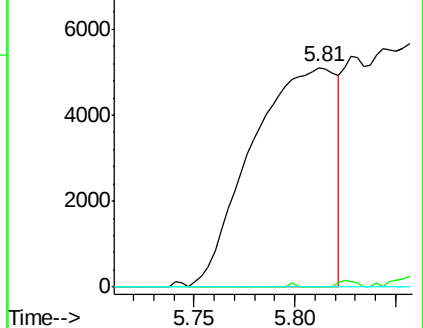
87 0.0 10.0 15.0#

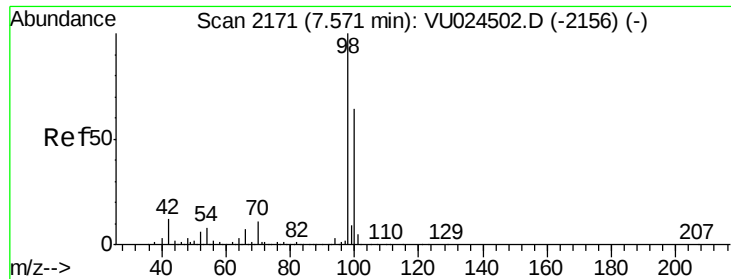


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 87.00 (86.70 to 87.70): VU0





#50

Toluene-d8

Concen: 48.192 ug/l

RT: 7.57 min Scan# 2170

Delta R.T. -0.00 min

Lab File: VU024780.D

Acq: 21 Jun 2018 01:13

Instrument :

MSVOA_U

ClientSampleId :

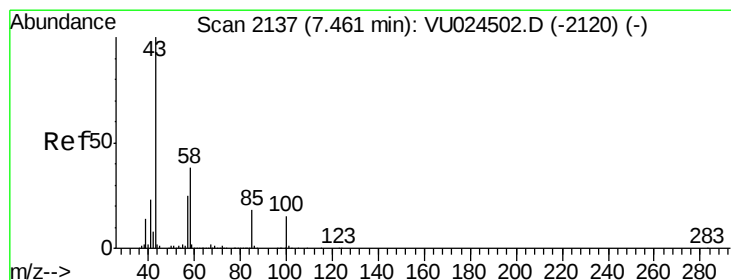
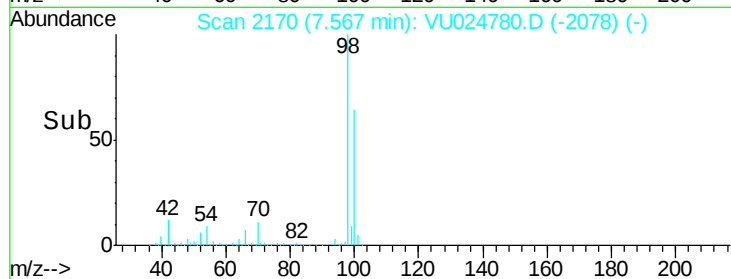
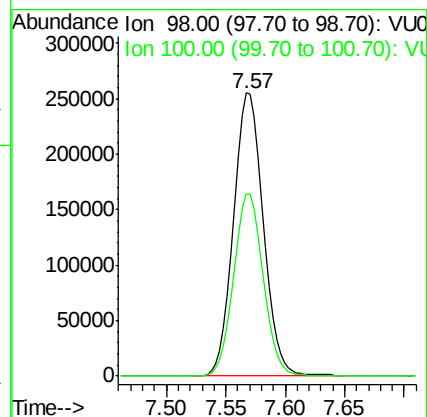
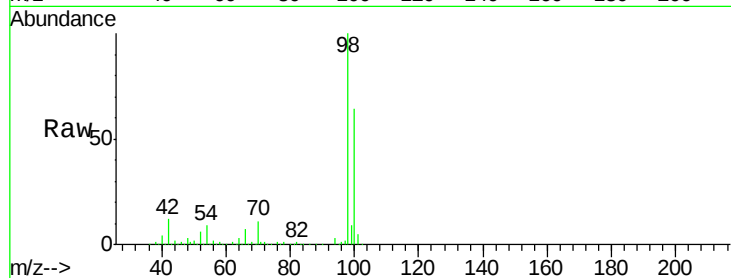
SSP-A-COMPOSITE

Tgt Ion: 98 Resp: 444465

Ion Ratio Lower Upper

98 100

100 63.8 51.1 76.7



#51

4-Methyl-2-Pentanone

Concen: 0.340 ug/l

RT: 7.47 min Scan# 2139

Delta R.T. 0.01 min

Lab File: VU024780.D

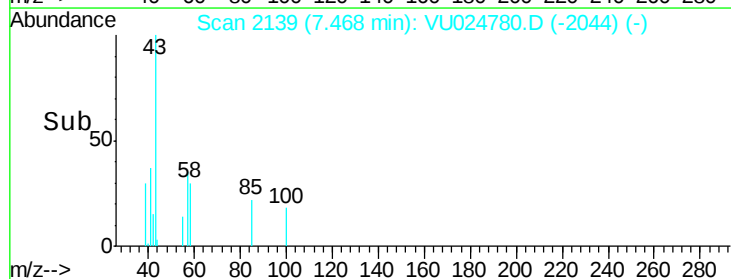
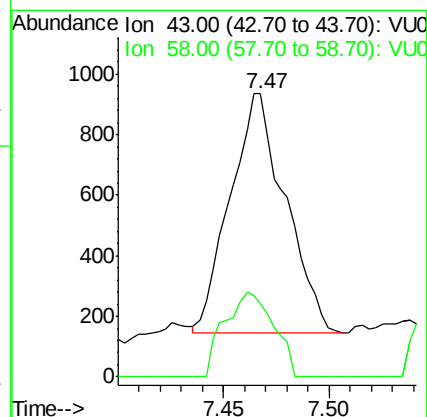
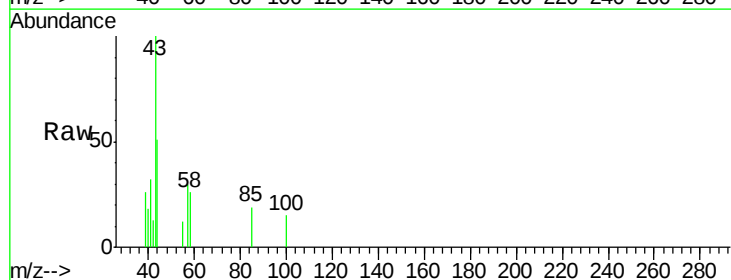
Acq: 21 Jun 2018 01:13

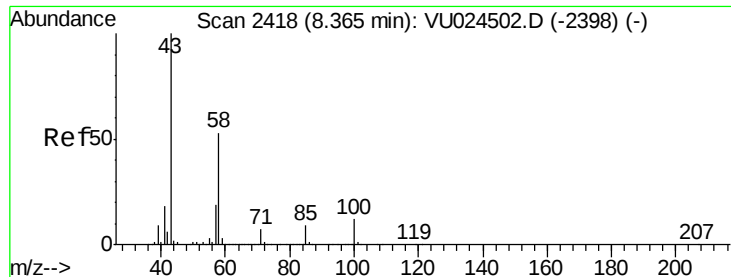
Tgt Ion: 43 Resp: 1440

Ion Ratio Lower Upper

43 100

58 31.4 30.0 45.0

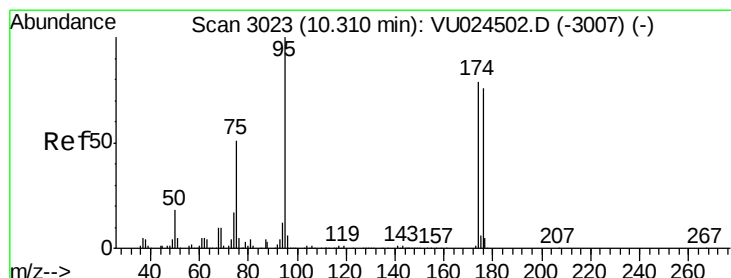
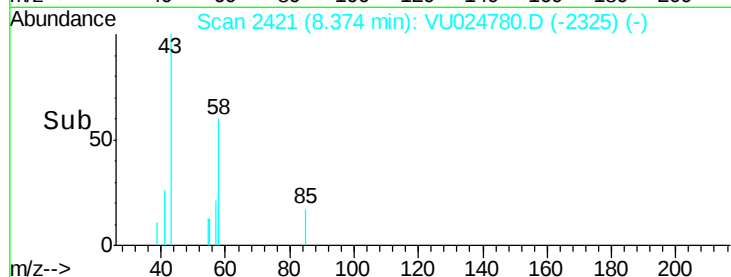
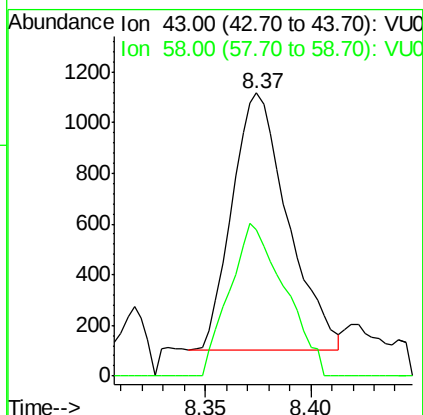
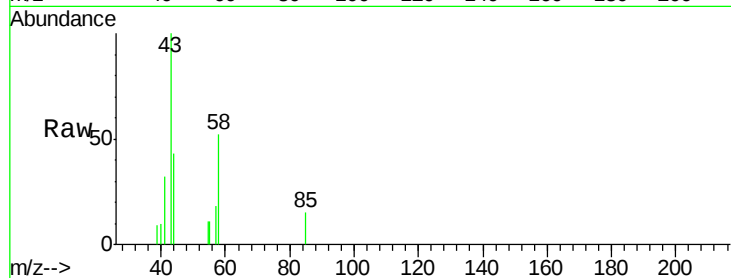




#59
 2-Hexanone
 Concen: 0.534 ug/l
 RT: 8.37 min Scan# 2421
 Delta R.T. 0.01 min
 Lab File: VU024780.D
 Acq: 21 Jun 2018 01:13

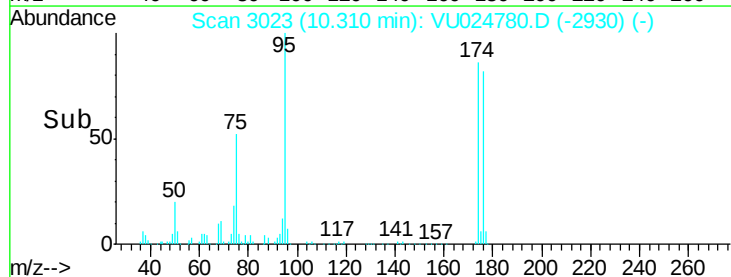
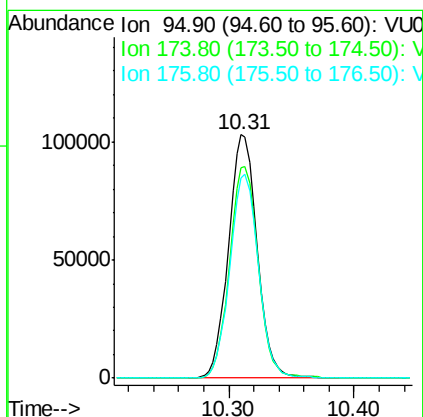
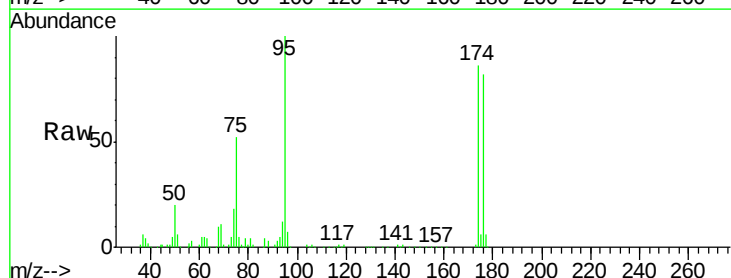
Instrument :
 MSVOA_U
 ClientSampleId :
 SSP-A-COMPOSITE

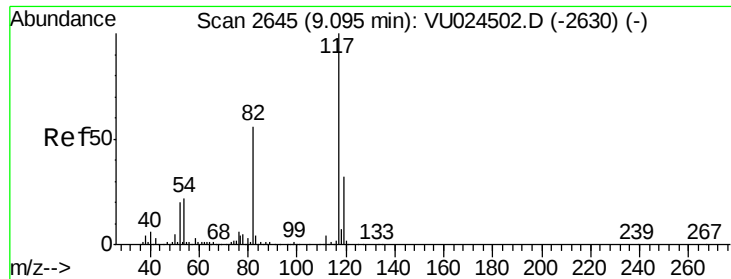
Tgt Ion: 43 Resp: 1848
 Ion Ratio Lower Upper
 43 100
 58 59.4 26.4 79.0



#62
 4-Bromofluorobenzene
 Concen: 44.559 ug/l
 RT: 10.31 min Scan# 3023
 Delta R.T. -0.00 min
 Lab File: VU024780.D
 Acq: 21 Jun 2018 01:13

Tgt Ion: 95 Resp: 163166
 Ion Ratio Lower Upper
 95 100
 174 86.9 0.0 165.8
 176 83.7 0.0 159.4

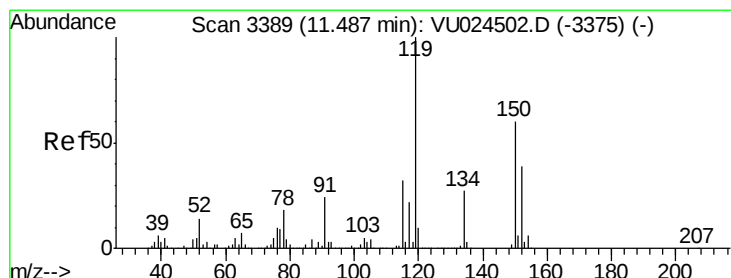
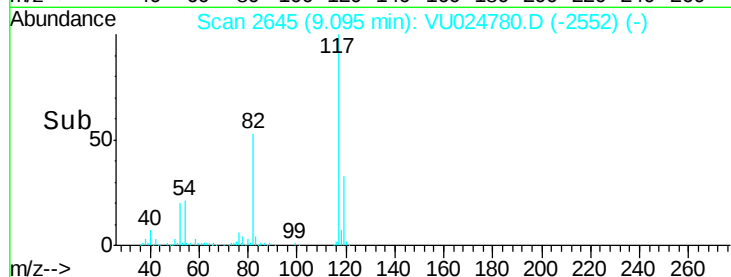
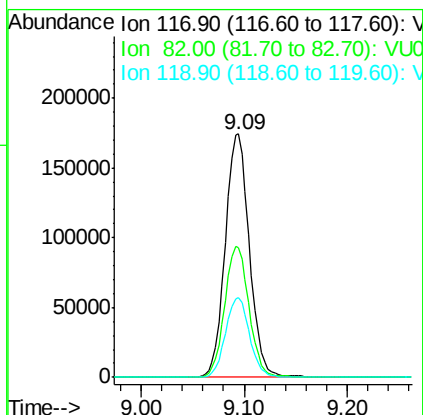
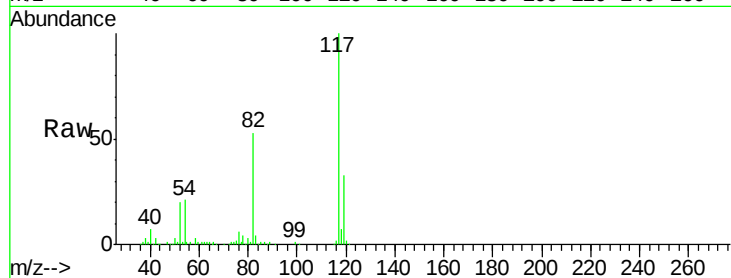




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2645
Delta R.T. -0.00 min
Lab File: VU024780.D
Acq: 21 Jun 2018 01:13

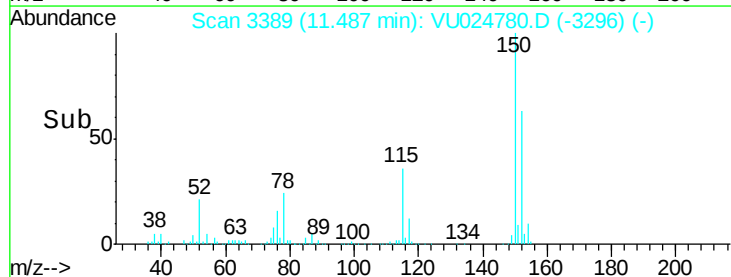
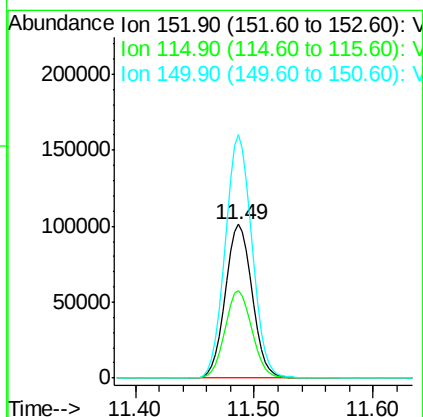
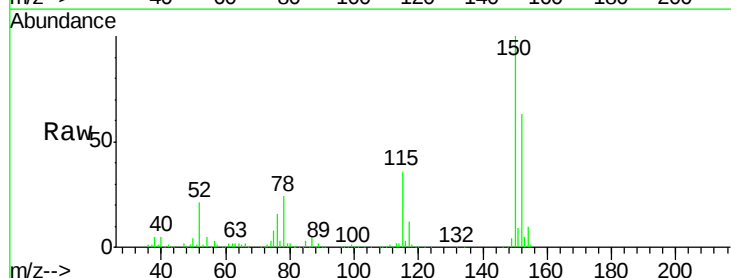
Instrument :
MSVOA_U
ClientSampleId :
SSP-A-COMPOSITE

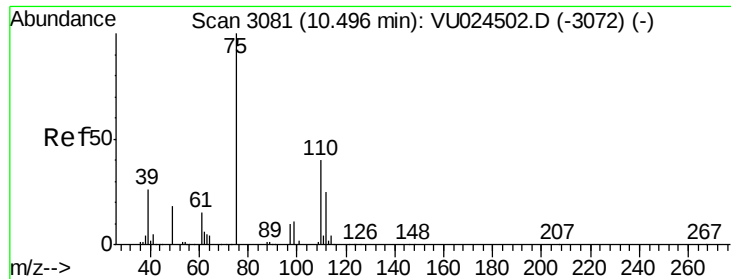
Tgt Ion	Ratio	Lower	Upper
117	100		
82	53.5	44.3	66.5
119	33.0	25.4	38.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.49 min Scan# 3389
Delta R.T. -0.00 min
Lab File: VU024780.D
Acq: 21 Jun 2018 01:13

Tgt Ion	Ratio	Lower	Upper
152	100		
115	57.0	43.0	129.0
150	158.1	0.0	354.0

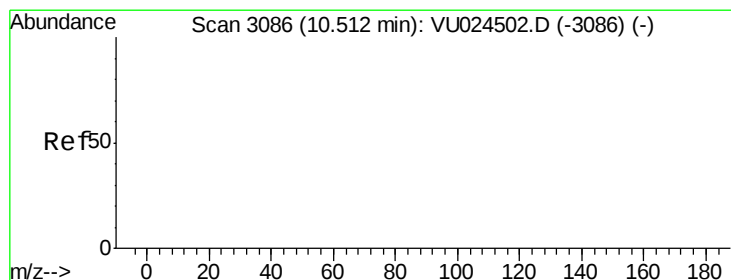
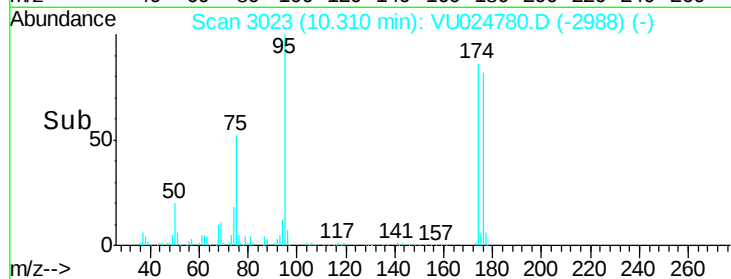
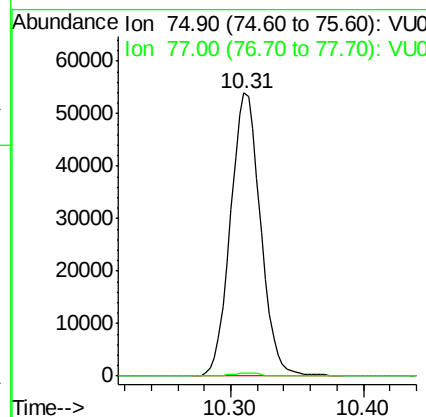
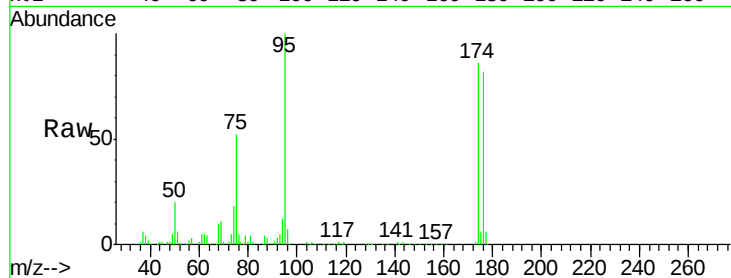




#76
 1,2,3-Trichloropropane
 Concen: 24.369 ug/l
 RT: 10.31 min Scan# 3023
 Delta R.T. -0.19 min
 Lab File: VU024780.D
 Acq: 21 Jun 2018 01:13

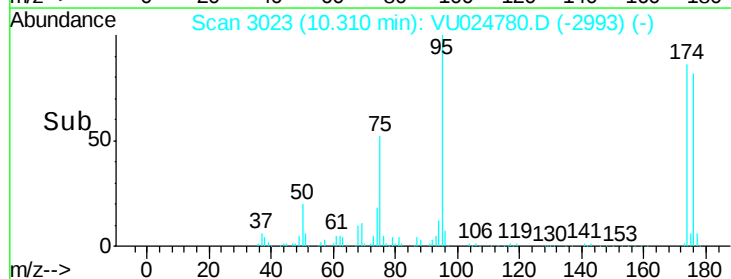
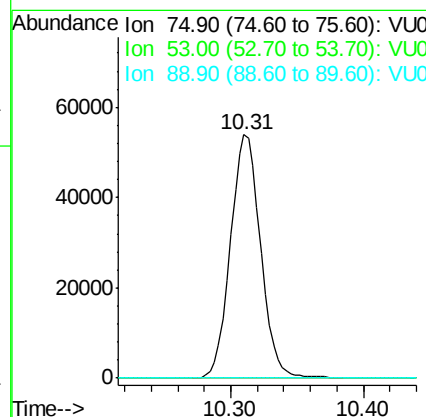
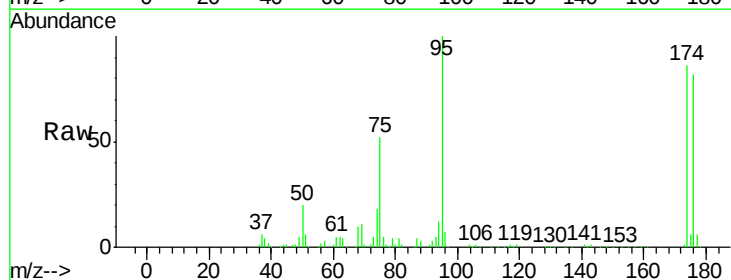
Instrument :
 MSVOA_U
 ClientSampleId :
 SSP-A-COMPOSITE

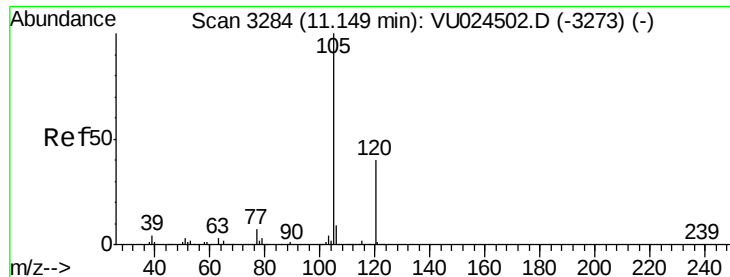
Tgt Ion: 75 Resp: 84869
 Ion Ratio Lower Upper
 75 100
 77 1.0 20.9 62.7#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 56.400 ug/l
 RT: 10.31 min Scan# 3023
 Delta R.T. -0.20 min
 Lab File: VU024780.D
 Acq: 21 Jun 2018 01:13

Tgt Ion: 75 Resp: 84869
 Ion Ratio Lower Upper
 75 100
 53 0.0 0.0 0.0
 89 0.0 0.0 0.0

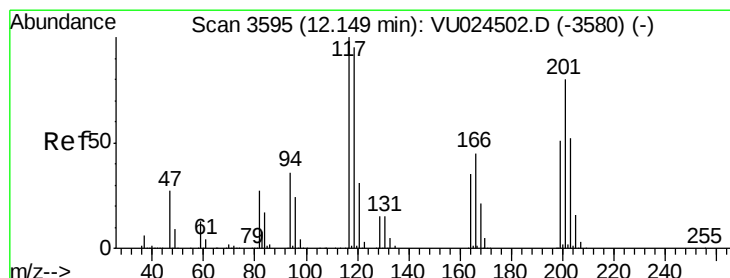
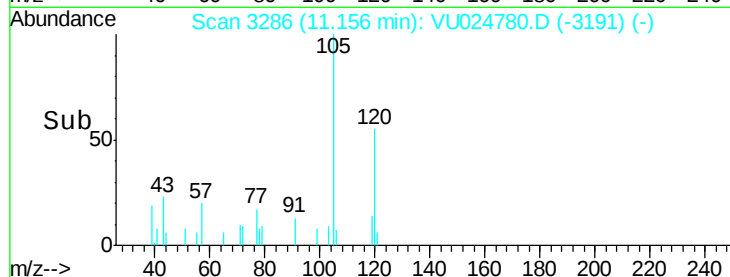
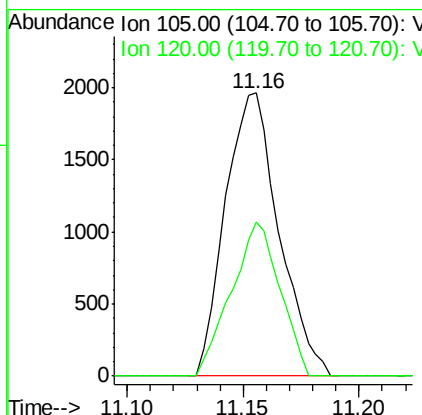
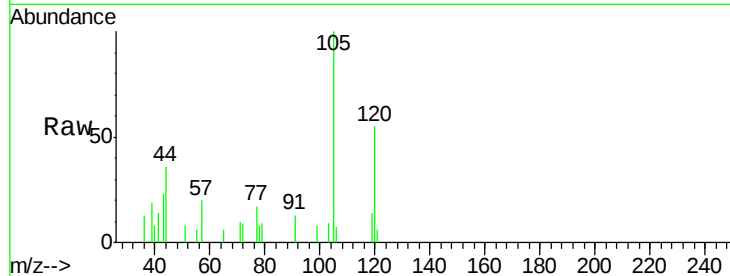




#84
 1,2,4-Trimethylbenzene
 Concen: 0.293 ug/l
 RT: 11.16 min Scan# 3286
 Delta R.T. 0.01 min
 Lab File: VU024780.D
 Acq: 21 Jun 2018 01:13

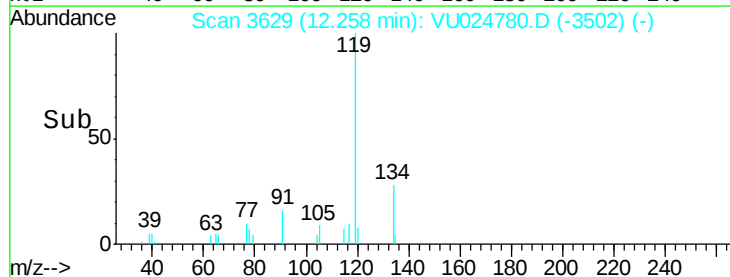
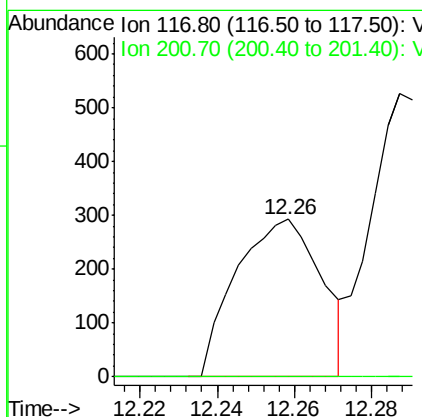
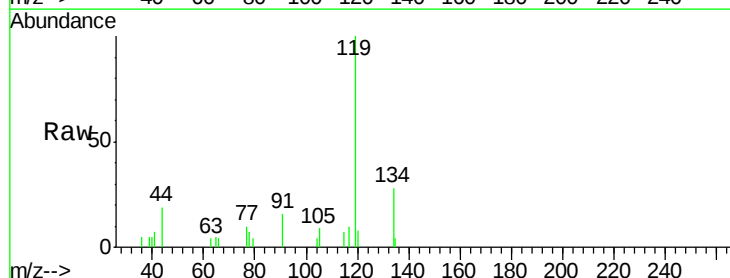
Instrument :
 MSVOA_U
 ClientSampleId :
 SSP-A-COMPOSITE

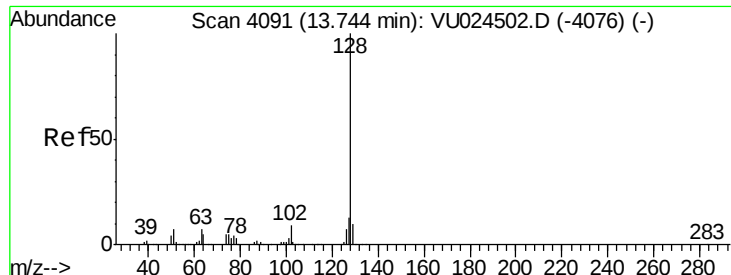
Tgt Ion:105 Resp: 3145
 Ion Ratio Lower Upper
 105 100
 120 49.4 22.6 67.8



#90
 Hexachloroethane
 Concen: 0.202 ug/l
 RT: 12.26 min Scan# 3629
 Delta R.T. 0.11 min
 Lab File: VU024780.D
 Acq: 21 Jun 2018 01:13

Tgt Ion:117 Resp: 448
 Ion Ratio Lower Upper
 117 100
 201 0.0 41.1 123.3#





#95

Naphthalene

Concen: 5.784 ug/l

RT: 13.75 min Scan# 4092

Delta R.T. 0.00 min

Lab File: VU024780.D

Acq: 21 Jun 2018 01:13

Instrument :

MSVOA_U

ClientSampleId :

SSP-A-COMPOSITE

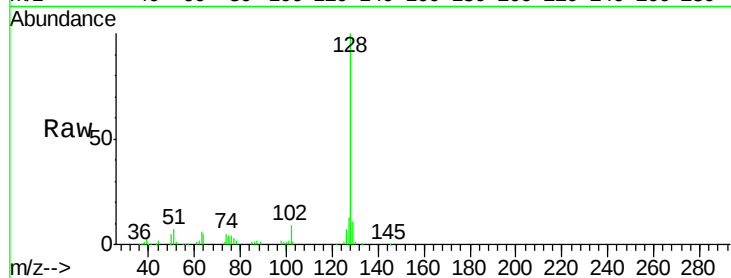
Tgt Ion:128 Resp: 60198

Ion Ratio Lower Upper

128 100

127 12.7 10.6 16.0

129 10.9 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

