

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU121518\
 Data File : VU028694.D
 Acq On : 14 Dec 2018 19:40
 Operator : MD/SY
 Sample : J6393-08
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Dec 15 00:23:27 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U120618W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 07 00:39:42 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.98	168	77241	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	137530	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	126561	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	50148	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	64964	55.11	ug/l	0.00
Spiked Amount			Recovery	=	110.22%	
35) Dibromofluoromethane	4.88	113	48439	55.97	ug/l	0.00
Spiked Amount			Recovery	=	111.94%	
50) Toluene-d8	7.57	98	178666	52.18	ug/l	0.00
Spiked Amount			Recovery	=	104.36%	
62) 4-Bromofluorobenzene	10.30	95	59304	46.34	ug/l	0.00
Spiked Amount			Recovery	=	92.68%	

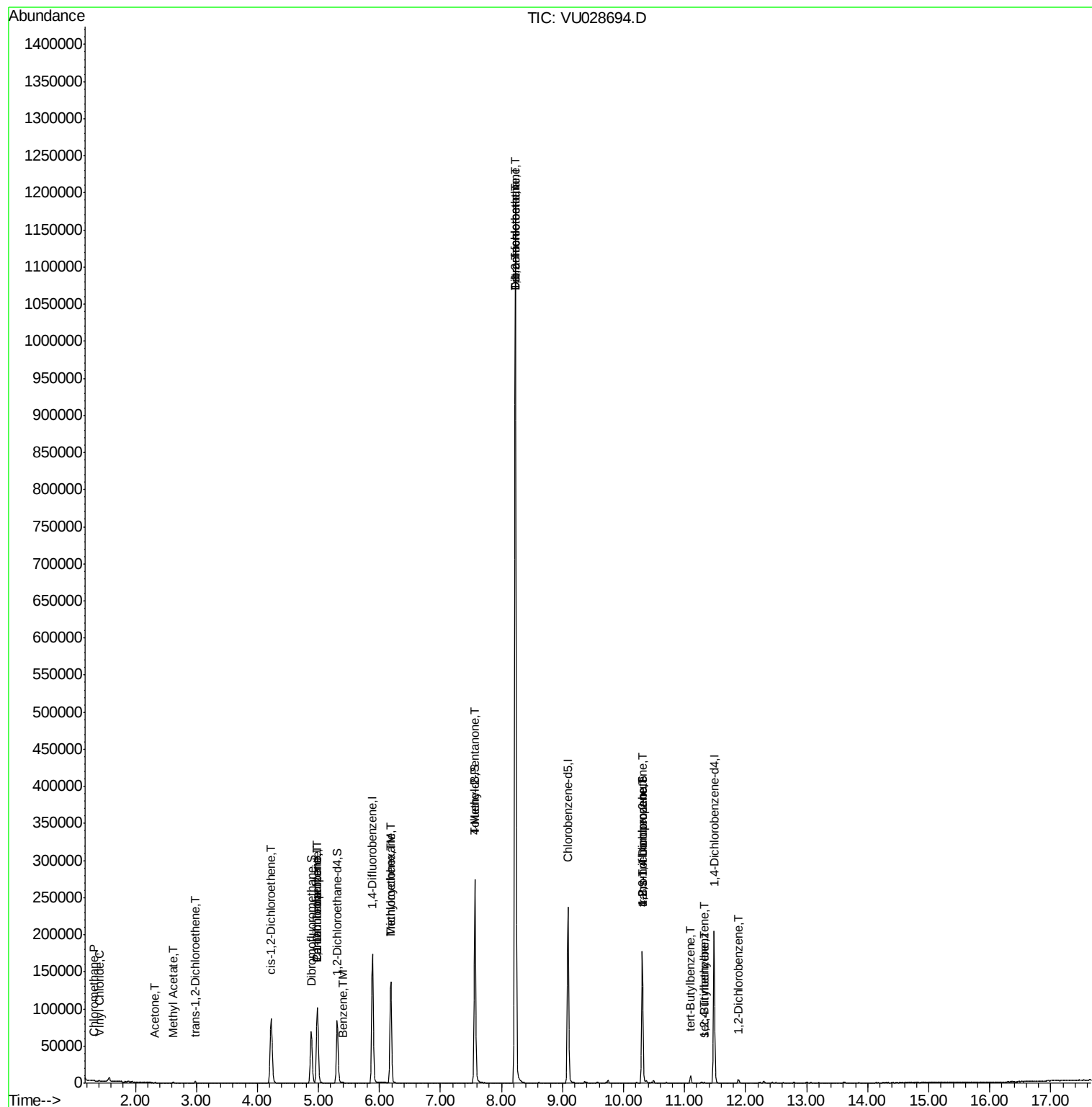
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	782	0.411	ug/l	89
4) Vinyl Chloride	1.40	62	585	0.426	ug/l	98
16) Acetone	2.32	43	546	0.710	ug/l #	51
18) Methyl Acetate	2.62	43	1549	0.777	ug/l #	70
21) trans-1,2-Dichloroethene	2.98	96	661	0.683	ug/l #	67
27) cis-1,2-Dichloroethene	4.22	96	47374	43.227	ug/l	89
31) Cyclohexane	4.98	56	2203	Below Cal	#	1
36) 1,1-Dichloropropene	4.98	75	6918	4.597	ug/l #	50
38) Carbon Tetrachloride	4.98	117	7509	6.190	ug/l #	16
39) Methylcyclohexane	6.18	83	544	0.296	ug/l #	1
40) Benzene	5.39	78	1265	0.285	ug/l	96
44) Trichloroethene	6.18	130	44181	44.829	ug/l	98
51) 4-Methyl-2-Pentanone	7.56	43	1077	0.555	ug/l #	1
55) 1,1,2-Trichloroethane	8.23	97	2224	2.157	ug/l #	1
60) Dibromochloromethane	8.22	129	243640	241.331	ug/l #	10
64) Tetrachloroethene	8.23	164	251226	297.593	ug/l	99
76) 1,2,3-Trichloropropane	10.30	75	30817	24.066	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.30	75	30817	59.074	ug/l #	100
83) tert-Butylbenzene	11.10	119	4272	1.391	ug/l	88
84) 1,2,4-Trimethylbenzene	11.32	105	864	0.263	ug/l #	32
85) sec-Butylbenzene	11.32	105	864	0.219	ug/l	81
91) 1,2-Dichlorobenzene	11.88	146	2187	1.287	ug/l	94

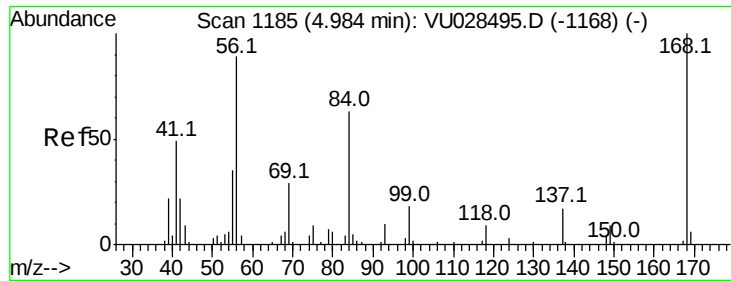
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Dec 15 00:23:27 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\82U120618W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 07 00:39:42 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.00 min

Lab File: VU028694.D

Acq: 14 Dec 2018 19:40

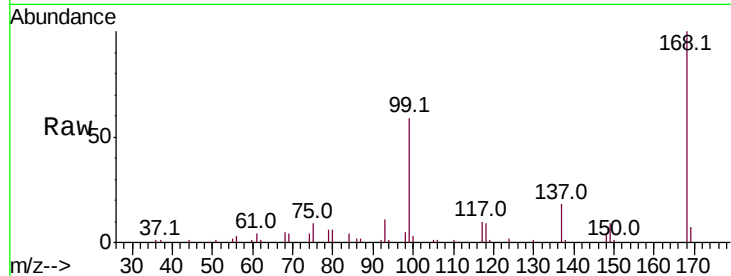
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:168 Resp: 77241

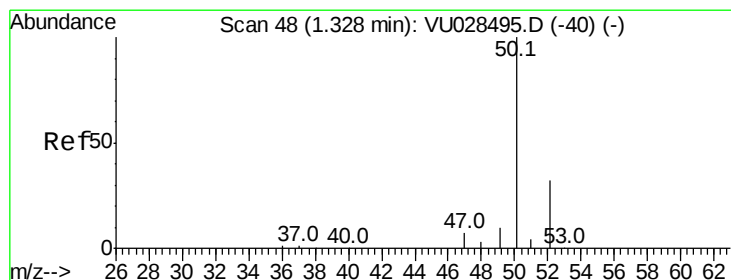
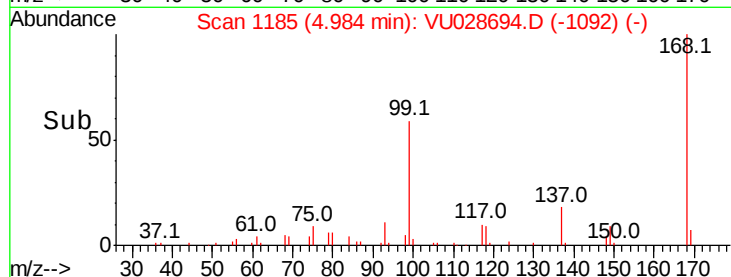
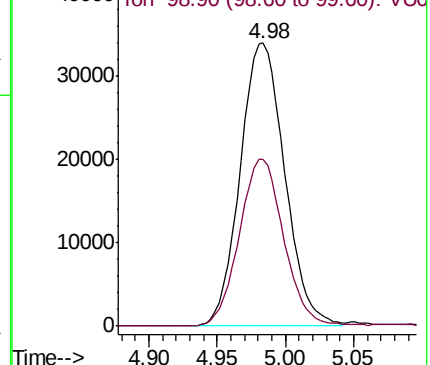
Ion Ratio Lower Upper

168 100

99 59.2 46.6 69.8



Abundance Ion 167.90 (167.60 to 168.60): VU028495.D (-1168) (-)



#3

Chloromethane

Concen: 0.411 ug/l

RT: 1.33 min Scan# 48

Delta R.T. -0.00 min

Lab File: VU028694.D

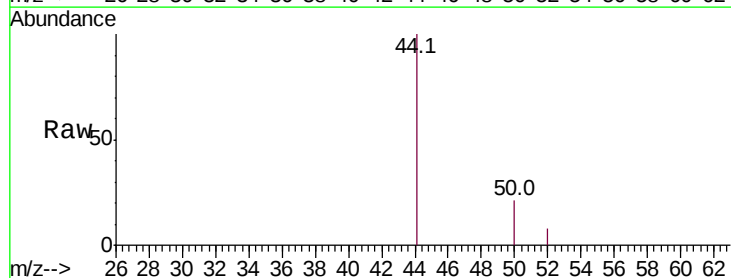
Acq: 14 Dec 2018 19:40

Tgt Ion: 50 Resp: 782

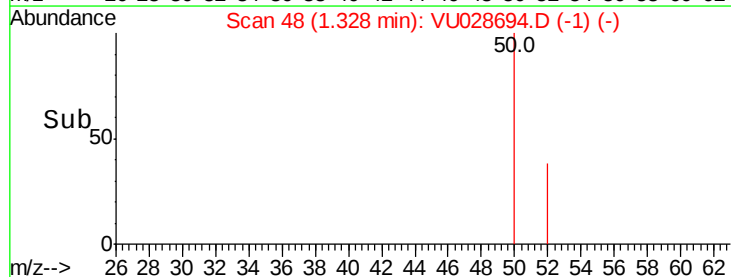
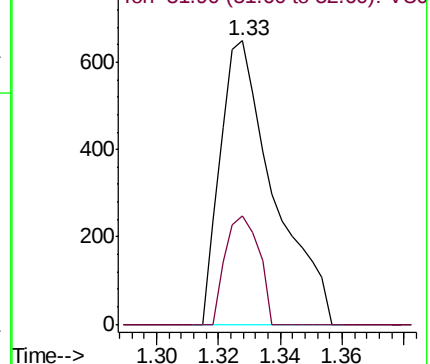
Ion Ratio Lower Upper

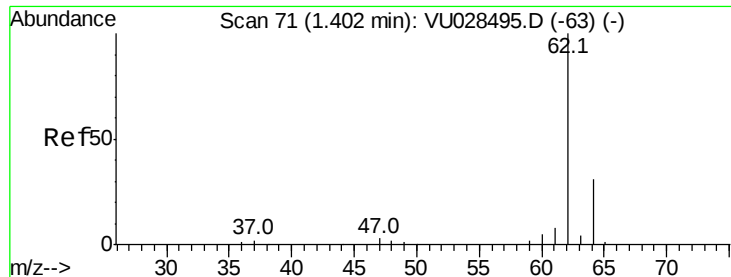
50 100

52 38.2 25.5 38.3



Abundance Ion 49.90 (49.60 to 50.60): VU028495.D (-40) (-)





#4

Vinyl Chloride

Concen: 0.426 ug/l

RT: 1.40 min Scan# 71

Delta R.T. -0.00 min

Lab File: VU028694.D

Acq: 14 Dec 2018 19:40

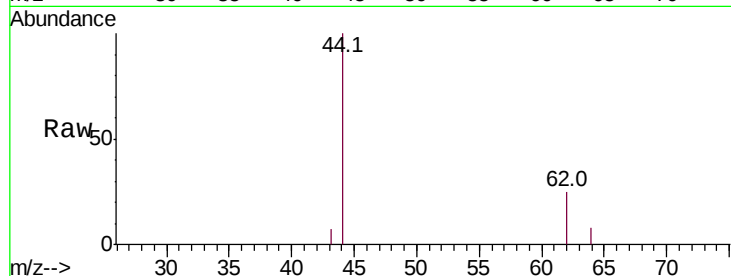
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 62 Resp: 585

Ion Ratio Lower Upper

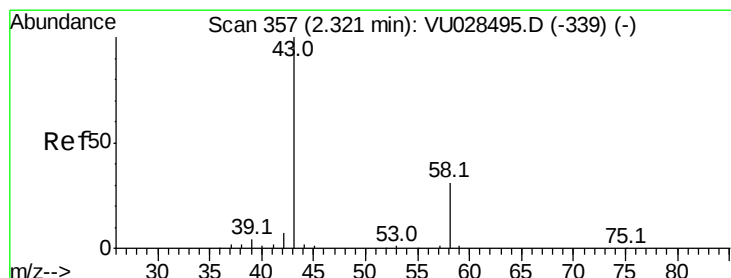
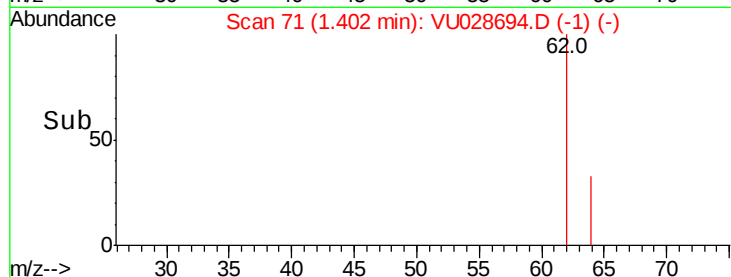
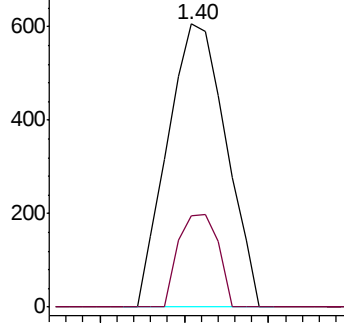
62 100

64 32.5 25.1 37.7



Abundance Ion 61.90 (61.60 to 62.60): VU0

Ion 63.90 (63.60 to 64.60): VU0



#16

Acetone

Concen: 0.710 ug/l

RT: 2.32 min Scan# 357

Delta R.T. -0.00 min

Lab File: VU028694.D

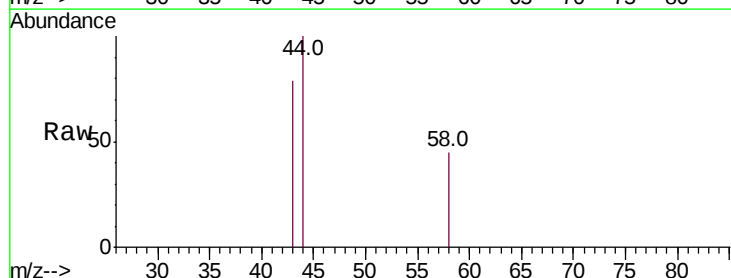
Acq: 14 Dec 2018 19:40

Tgt Ion: 43 Resp: 546

Ion Ratio Lower Upper

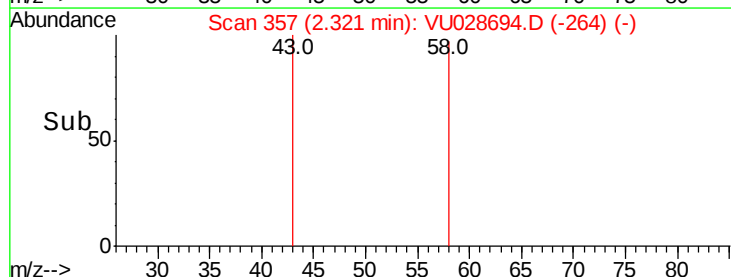
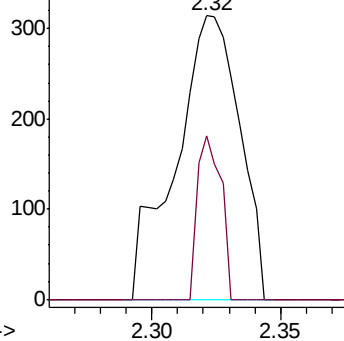
43 100

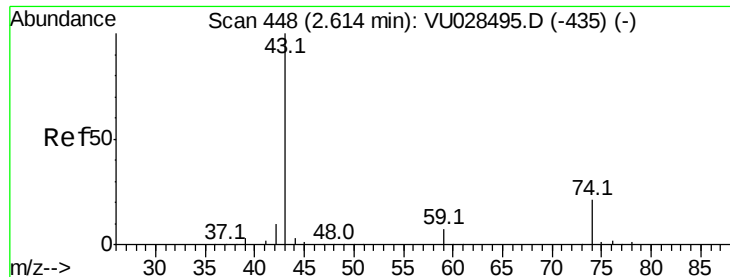
58 57.6 24.6 37.0#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

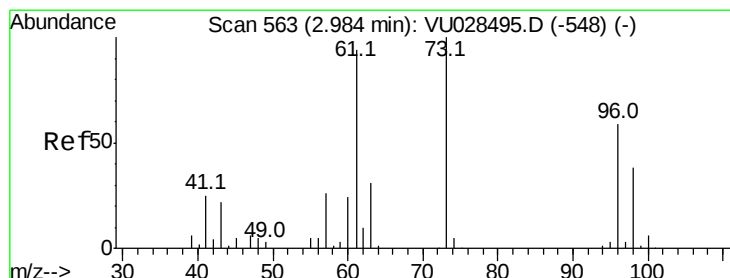
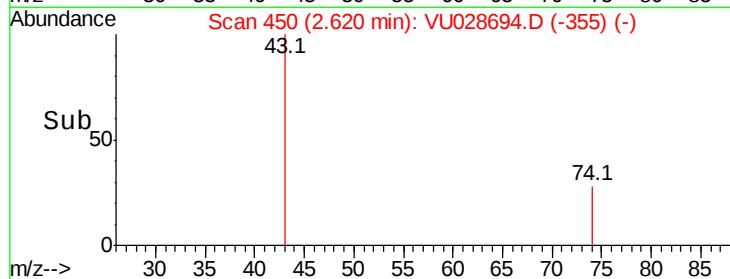
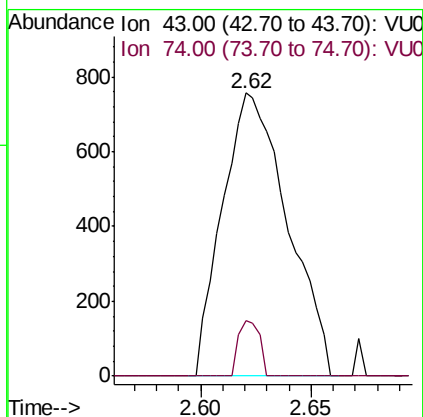
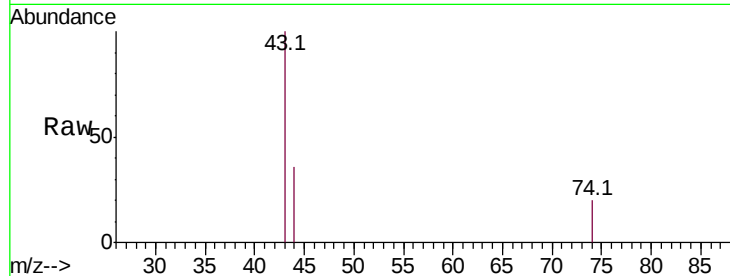




#18
Methvl Acetate
Concen: 0.777 ug/l
RT: 2.62 min Scan# 450
Delta R.T. 0.01 min
Lab File: VU028694.D
Acq: 14 Dec 2018 19:40

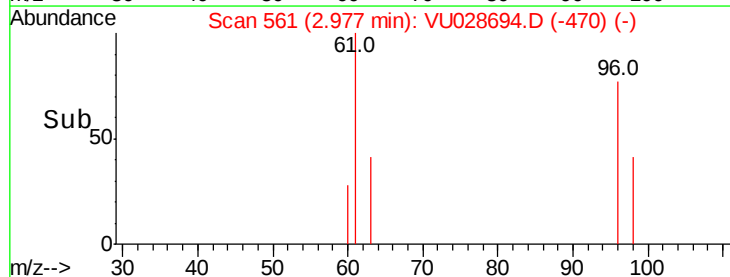
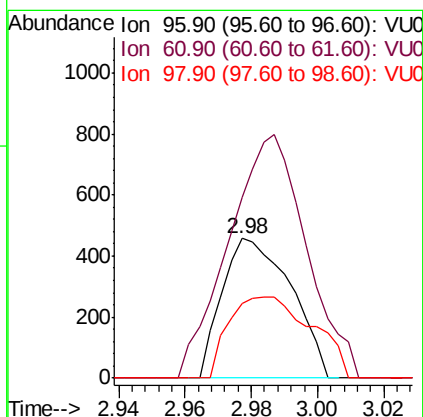
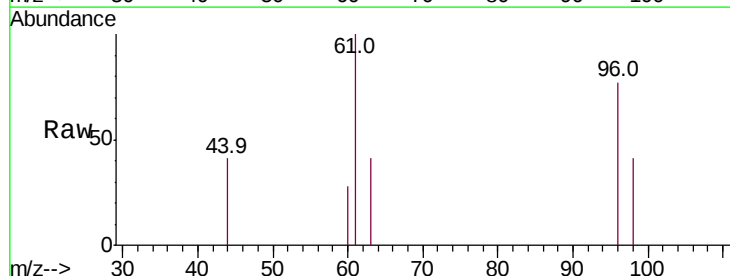
Instrument :
MSVOA_U
ClientSampleId :

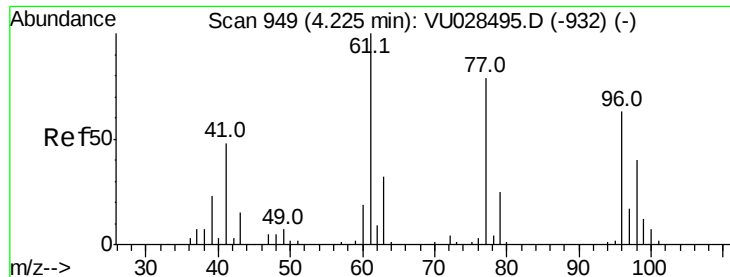
Tot Ion: 43 Resp: 1549
Ion Ratio Lower Upper
43 100
74 6.4 16.4 24.6#



#21
trans-1,2-Dichloroethene
Concen: 0.683 ug/l
RT: 2.98 min Scan# 561
Delta R.T. -0.01 min
Lab File: VU028694.D
Acq: 14 Dec 2018 19:40

Tgt Ion: 96 Resp: 661
Ion Ratio Lower Upper
96 100
61 105.5 127.0 190.4#
98 53.3 51.9 77.9



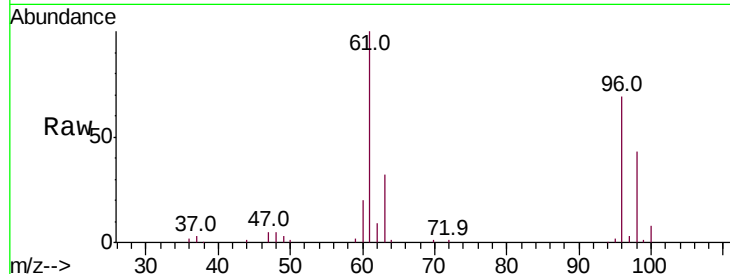


#27

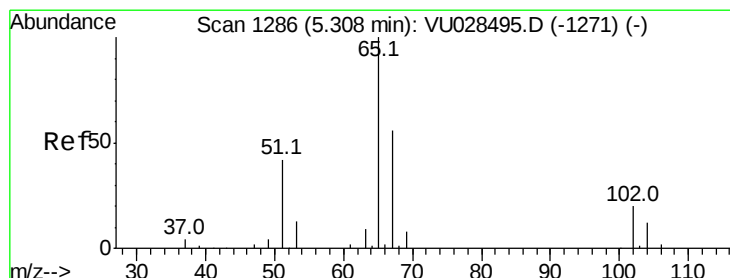
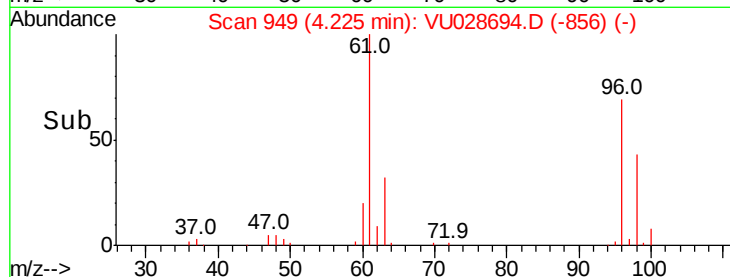
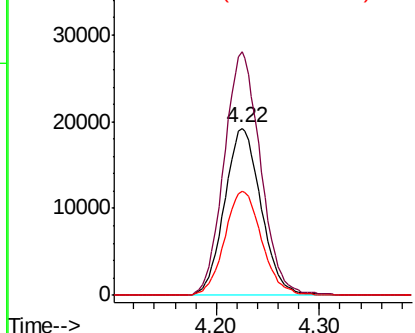
cis-1,2-Dichloroethene
Concen: 43.227 ug/l
RT: 4.22 min Scan# 949
Delta R.T. -0.00 min
Lab File: VU028694.D
Acq: 14 Dec 2018 19:40

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 96 Resp: 47374
Ion Ratio Lower Upper
96 100
61 145.7 0.0 332.4
98 63.3 0.0 129.0



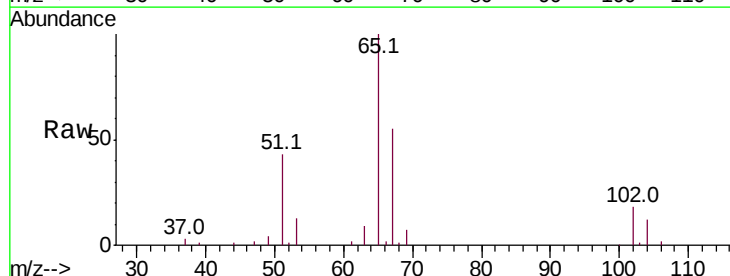
Abundance Ion 95.90 (95.60 to 96.60): VU0
Ion 60.90 (60.60 to 61.60): VU0
Ion 97.90 (97.60 to 98.60): VU0



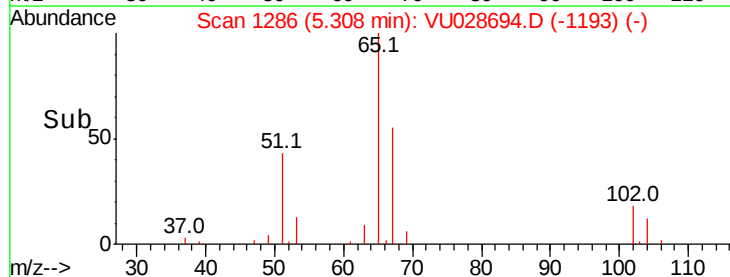
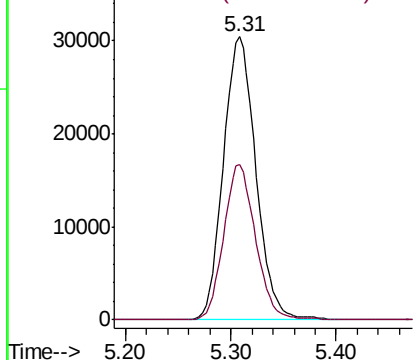
#33

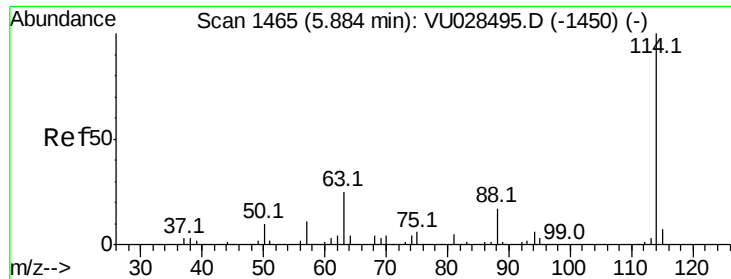
1,2-Dichloroethane-d4
Concen: 55.113 ug/l
RT: 5.31 min Scan# 1286
Delta R.T. -0.00 min
Lab File: VU028694.D
Acq: 14 Dec 2018 19:40

Tgt Ion: 65 Resp: 64964
Ion Ratio Lower Upper
65 100
67 53.6 0.0 110.6



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

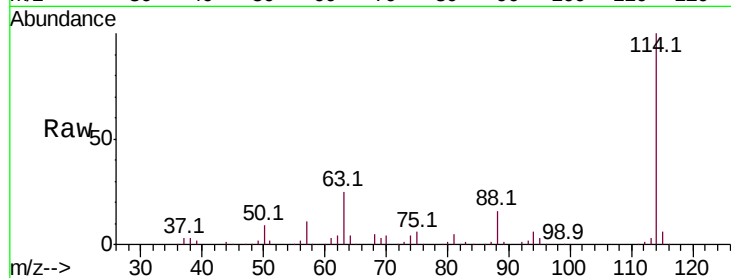




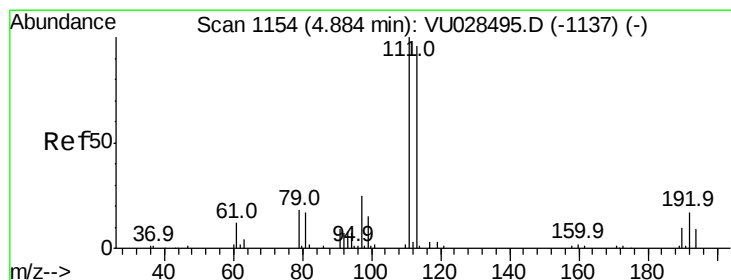
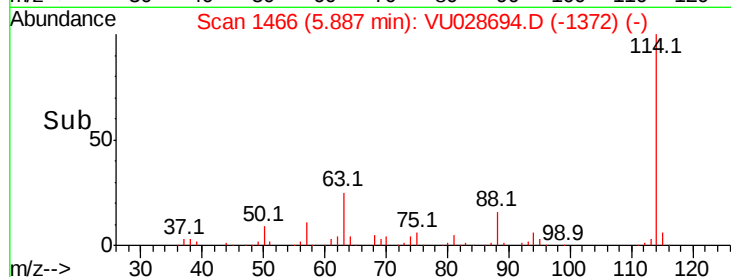
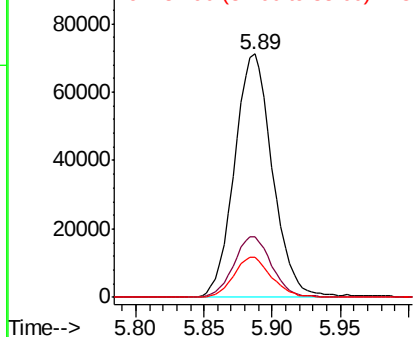
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1466
 Delta R.T. 0.00 min
 Lab File: VU028694.D
 Acq: 14 Dec 2018 19:40

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:114 Resp: 137530
 Ion Ratio Lower Upper
 114 100
 63 24.7 0.0 49.2
 88 16.3 0.0 33.4

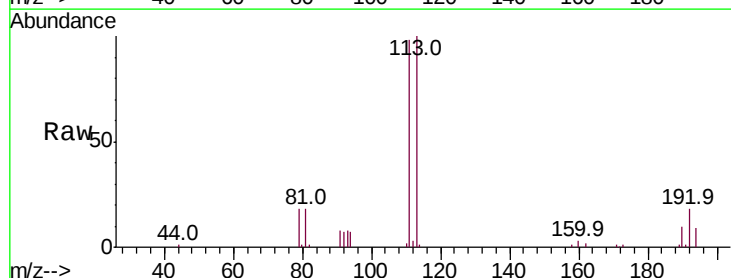


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VU0
 Ion 87.90 (87.60 to 88.60): VU0

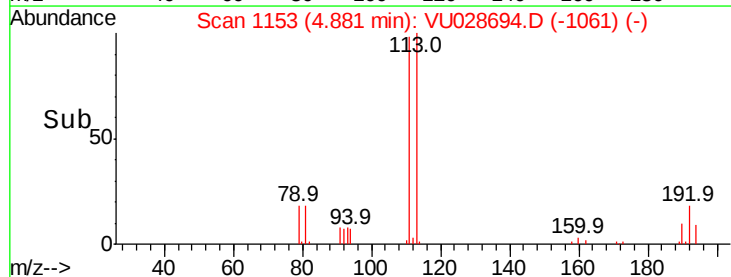
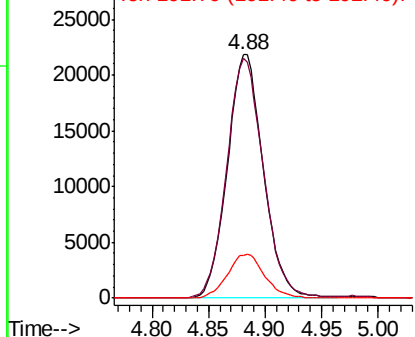


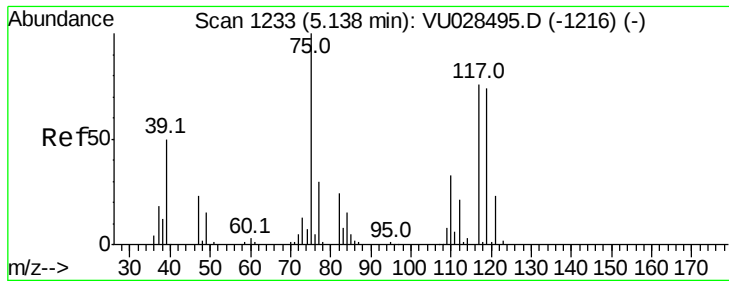
#35
 Dibromofluoromethane
 Concen: 55.967 ug/l
 RT: 4.88 min Scan# 1153
 Delta R.T. -0.00 min
 Lab File: VU028694.D
 Acq: 14 Dec 2018 19:40

Tgt Ion:113 Resp: 48439
 Ion Ratio Lower Upper
 113 100
 111 100.2 83.4 125.0
 192 18.5 14.8 22.2



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

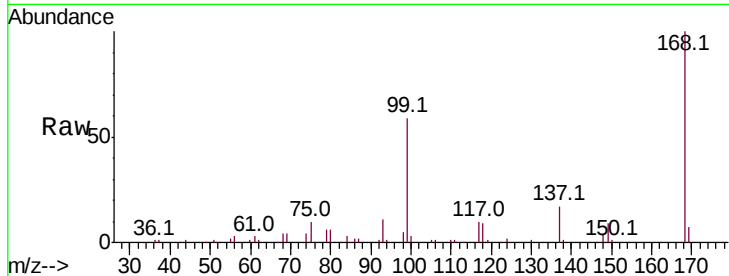




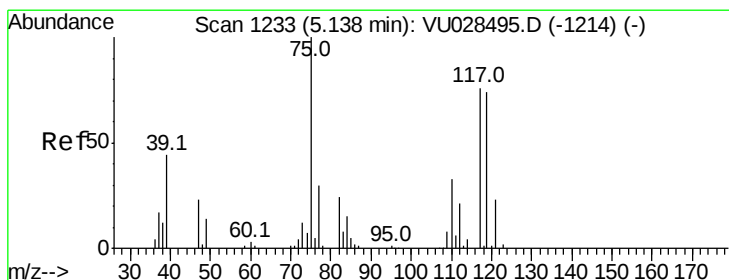
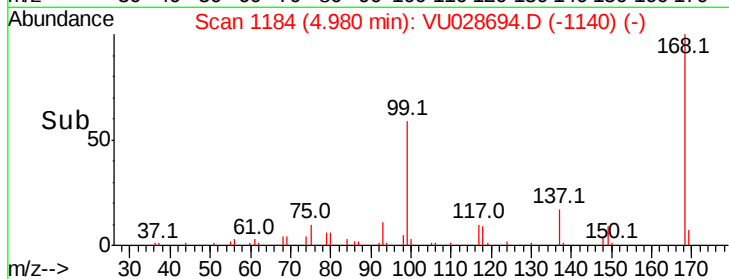
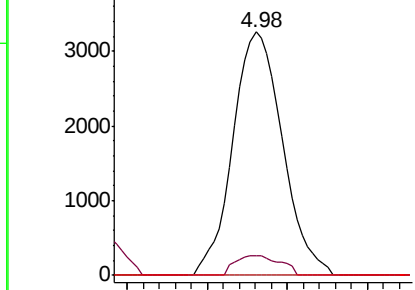
#36
 1,1-Dichloropropene
 Concen: 4.597 ug/l
 RT: 4.98 min Scan# 1184
 Delta R.T. -0.16 min
 Lab File: VU028694.D
 Acq: 14 Dec 2018 19:40

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 75 Resp: 6918
 Ion Ratio Lower Upper
 75 100
 110 7.4 16.1 48.2#
 77 0.0 24.5 36.7#

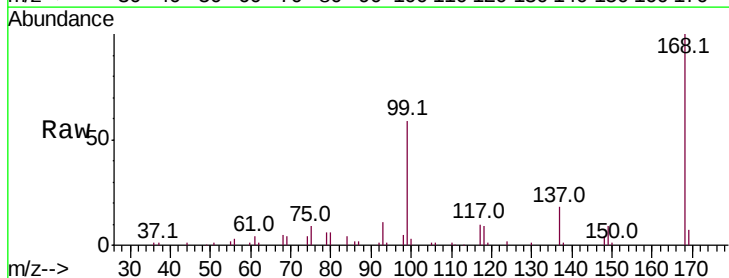


Abundance Ion 74.90 (74.60 to 75.60): VU028694.D (-1140) (-)
 Ion 109.90 (109.60 to 110.60): VU028694.D (-1140) (-)
 Ion 76.90 (76.60 to 77.60): VU028694.D (-1140) (-)

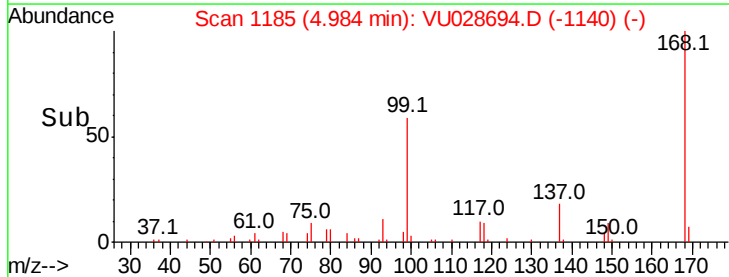
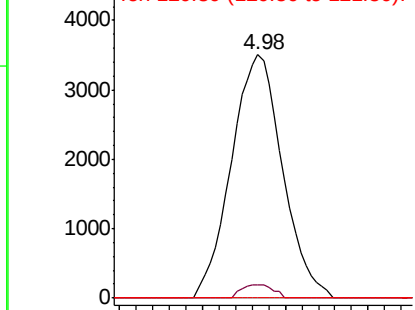


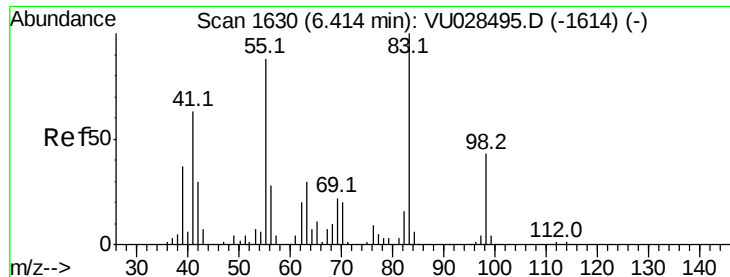
#38
 Carbon Tetrachloride
 Concen: 6.190 ug/l
 RT: 4.98 min Scan# 1185
 Delta R.T. -0.15 min
 Lab File: VU028694.D
 Acq: 14 Dec 2018 19:40

Tgt Ion: 117 Resp: 7509
 Ion Ratio Lower Upper
 117 100
 119 5.6 77.6 116.4#
 121 0.0 24.6 36.8#



Abundance Ion 116.80 (116.50 to 117.50): VU028694.D (-1140) (-)
 Ion 118.80 (118.50 to 119.50): VU028694.D (-1140) (-)
 Ion 120.80 (120.50 to 121.50): VU028694.D (-1140) (-)





#39

Methylcyclohexane

Concen: 0.296 ug/l

RT: 6.18 min Scan# 1557

Delta R.T. -0.23 min

Lab File: VU028694.D

Acq: 14 Dec 2018 19:40

Instrument :

MSVOA_U

ClientSampleId :

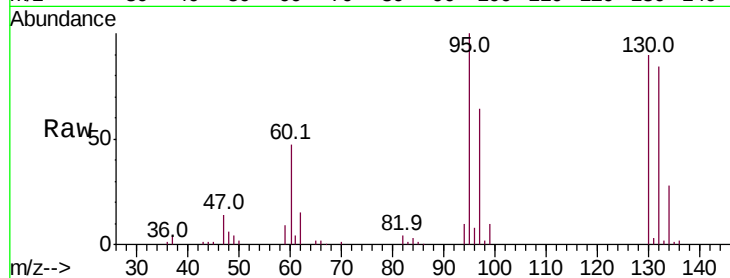
Tot Ion: 83 Resp: 544

Ion Ratio Lower Upper

83 100

55 0.0 70.2 105.2#

98 170.7 34.2 51.4#

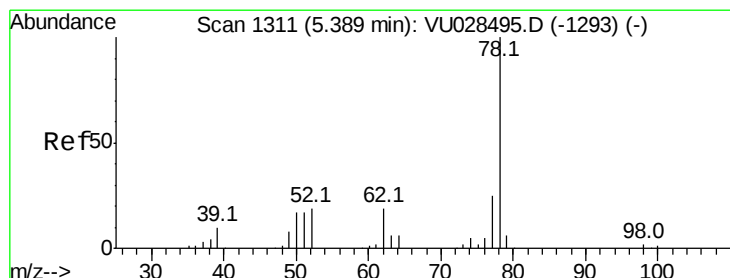
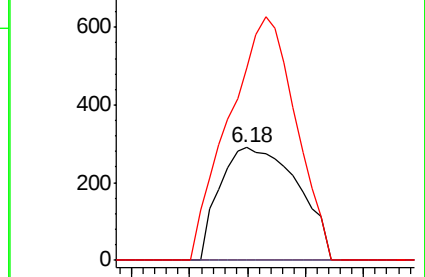
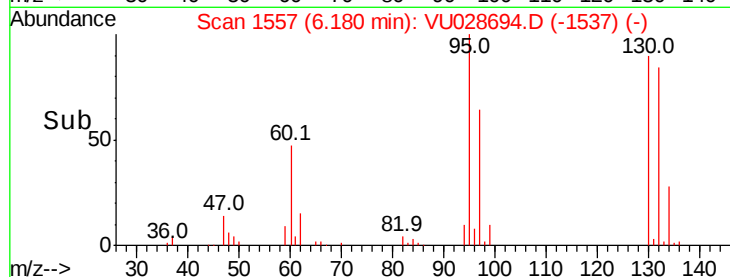


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

6.18



#40

Benzene

Concen: 0.285 ug/l

RT: 5.39 min Scan# 1312

Delta R.T. 0.00 min

Lab File: VU028694.D

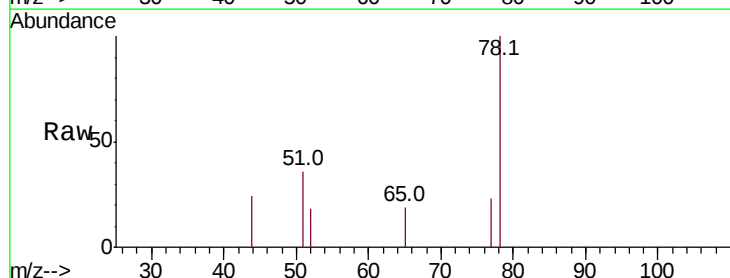
Acq: 14 Dec 2018 19:40

Tgt Ion: 78 Resp: 1265

Ion Ratio Lower Upper

78 100

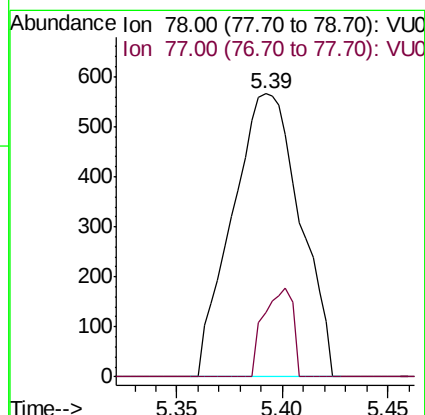
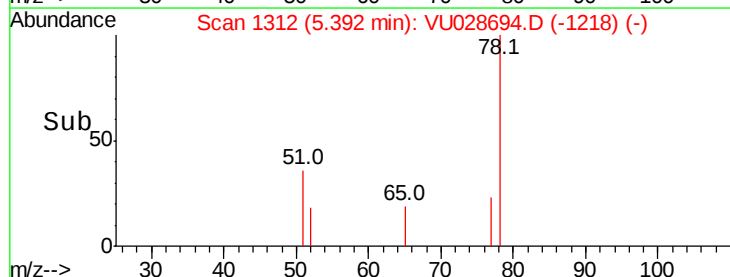
77 22.8 19.9 29.9

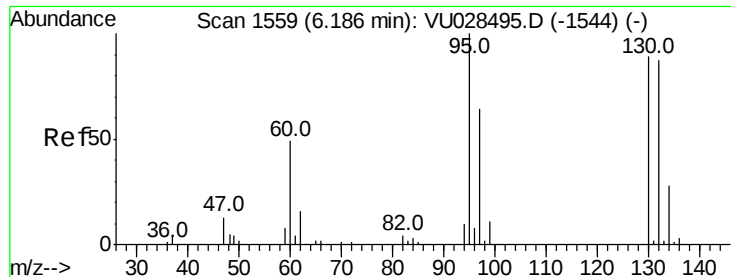


Abundance Ion 78.00 (77.70 to 78.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

5.39





#44

Trichloroethene

Concen: 44.829 ug/l

RT: 6.18 min Scan# 1558

Delta R.T. -0.00 min

Lab File: VU028694.D

Acq: 14 Dec 2018 19:40

Instrument :

MSVOA_U

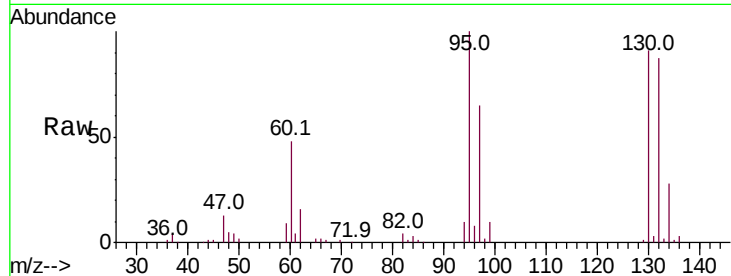
ClientSampled :

Tot Ion:130 Resp: 44181

Ion Ratio Lower Upper

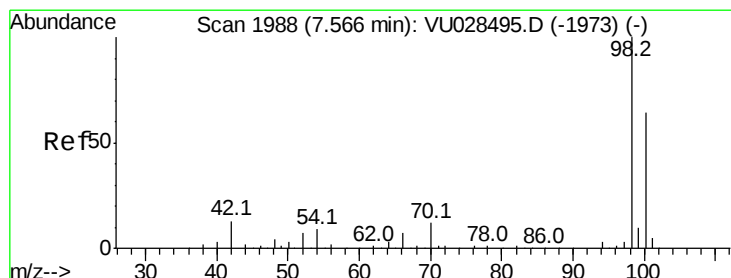
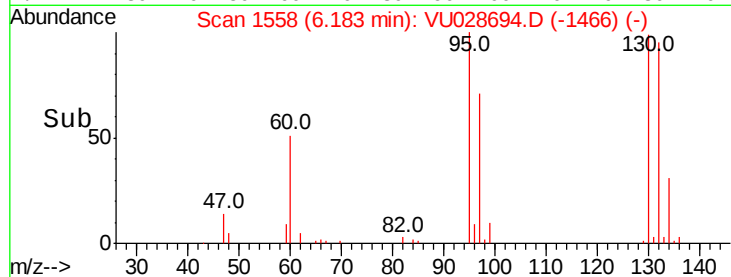
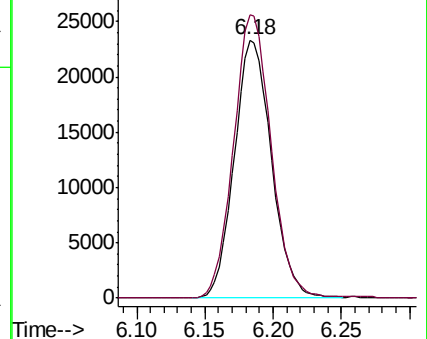
130 100

95 109.8 0.0 224.0



Abundance Ion 129.80 (129.50 to 130.50): VU028495.D (-1544) (-)

Ion 94.90 (94.60 to 95.60): VU028495.D (-1544) (-)



#50

Toluene-d8

Concen: 52.185 ug/l

RT: 7.57 min Scan# 1988

Delta R.T. -0.00 min

Lab File: VU028694.D

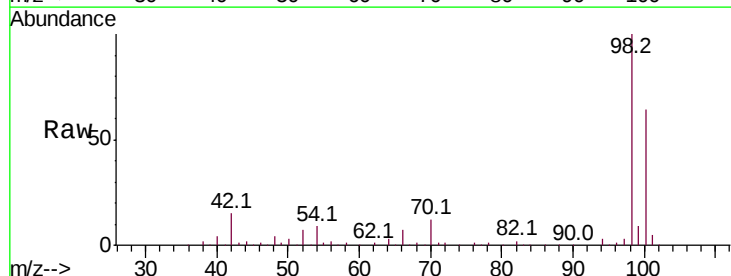
Acq: 14 Dec 2018 19:40

Tgt Ion: 98 Resp: 178666

Ion Ratio Lower Upper

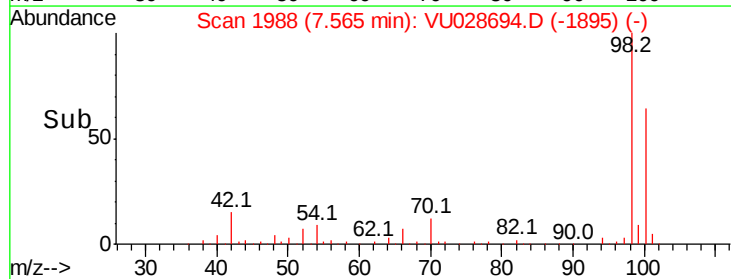
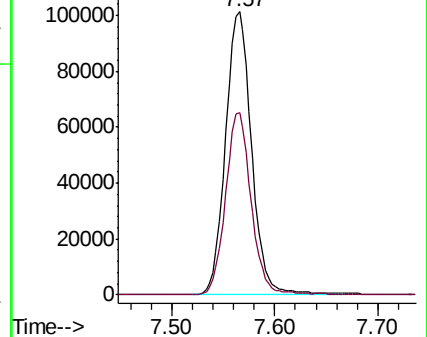
98 100

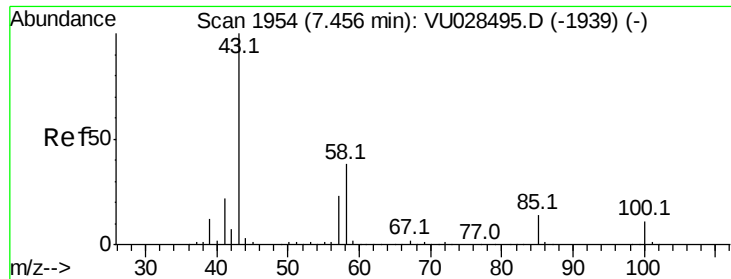
100 63.1 51.0 76.6



Abundance Ion 98.00 (97.70 to 98.70): VU028495.D (-1973) (-)

Ion 100.00 (99.70 to 100.70): VU028495.D (-1973) (-)





#51

4-Methyl-2-Pentanone

Concen: 0.555 ug/l

RT: 7.56 min Scan# 1987

Delta R.T. 0.11 min

Lab File: VU028694.D

Acq: 14 Dec 2018 19:40

Instrument :

MSVOA_U

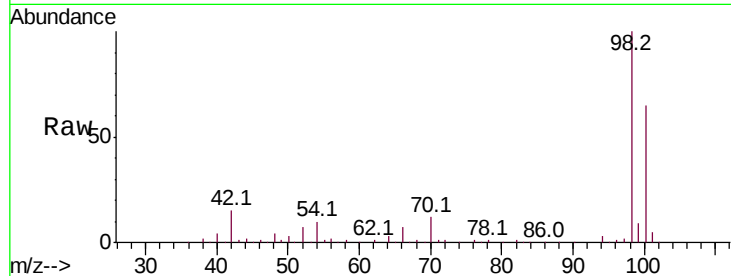
ClientSampled :

Tot Ion: 43 Resp: 1077

Ion Ratio Lower Upper

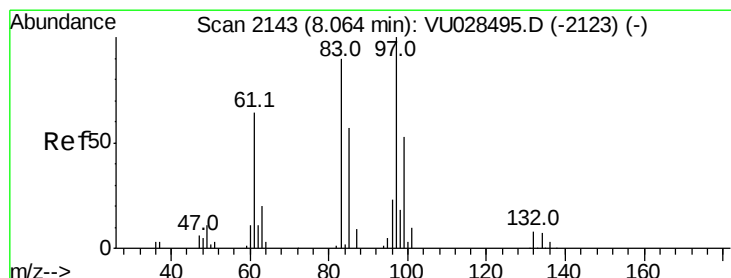
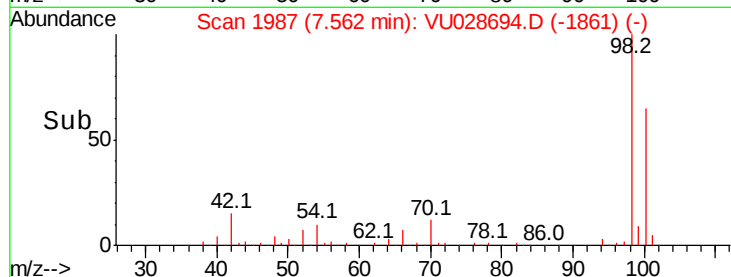
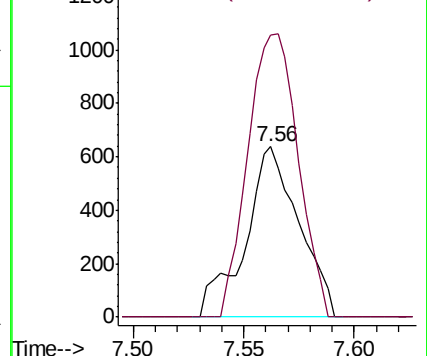
43 100

58 155.6 30.2 45.2#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#55

1,1,2-Trichloroethane

Concen: 2.157 ug/l

RT: 8.23 min Scan# 2194

Delta R.T. 0.16 min

Lab File: VU028694.D

Acq: 14 Dec 2018 19:40

Tgt Ion: 97 Resp: 2224

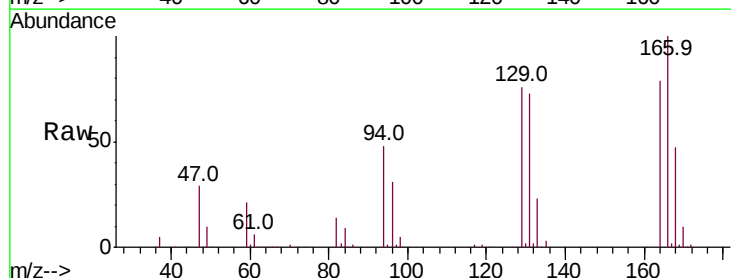
Ion Ratio Lower Upper

97 100

83 268.3 72.4 108.6#

85 41.8 46.0 69.0#

99 10.8 47.4 71.2#

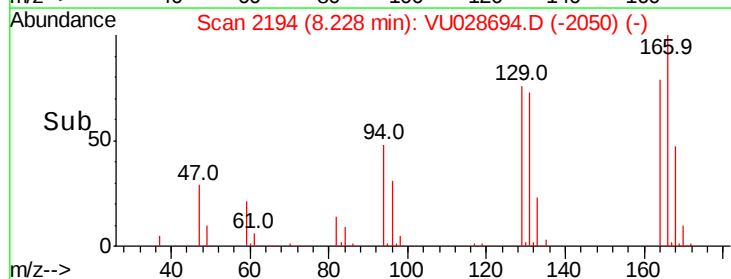
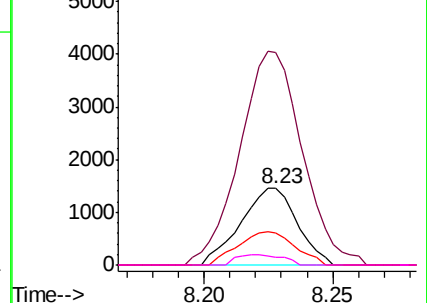


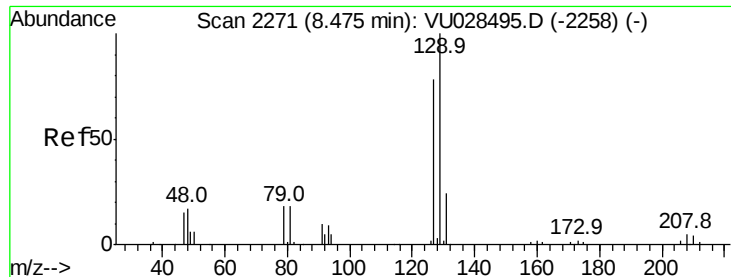
Abundance Ion 96.90 (96.60 to 97.60): VU0

Ion 82.90 (82.60 to 83.60): VU0

Ion 84.90 (84.60 to 85.60): VU0

Ion 98.90 (98.60 to 99.60): VU0





#60

Dibromochloromethane

Concen: 241.331 ug/l

RT: 8.22 min Scan# 2193

Delta R.T. -0.25 min

Lab File: VU028694.D

Acq: 14 Dec 2018 19:40

Instrument :

MSVOA_U

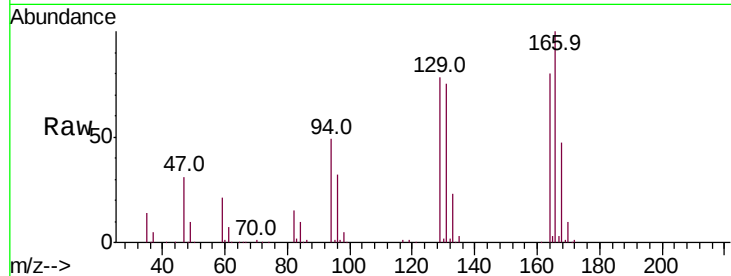
ClientSampled :

Tot Ion:129 Resp: 243640

Ion Ratio Lower Upper

129 100

127 0.0 39.1 117.3#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

8.22

150000

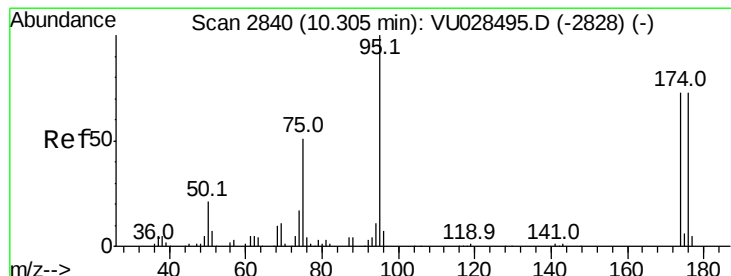
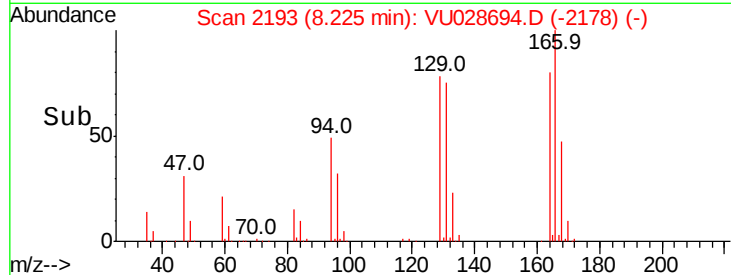
100000

50000

0

8.20 8.30

Time-->



#62

4-Bromofluorobenzene

Concen: 46.344 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.00 min

Lab File: VU028694.D

Acq: 14 Dec 2018 19:40

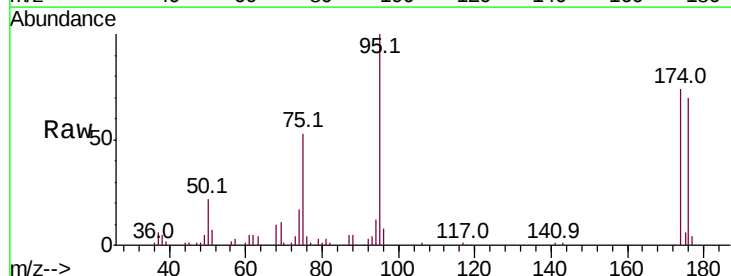
Tgt Ion: 95 Resp: 59304

Ion Ratio Lower Upper

95 100

174 74.4 0.0 150.4

176 72.1 0.0 145.2



Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

50000

40000

30000

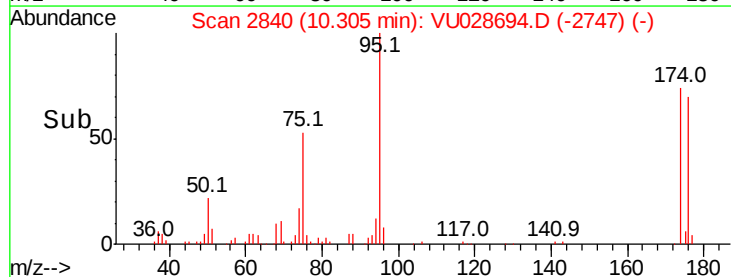
20000

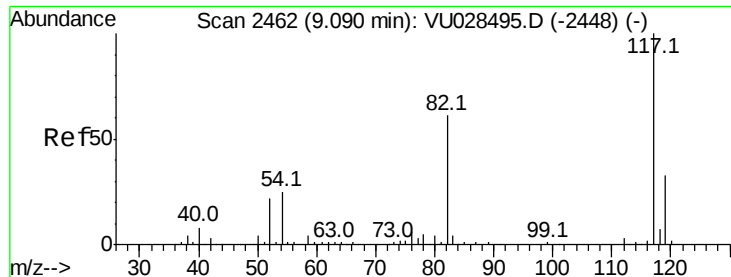
10000

0

10.25 10.30 10.35

Time-->

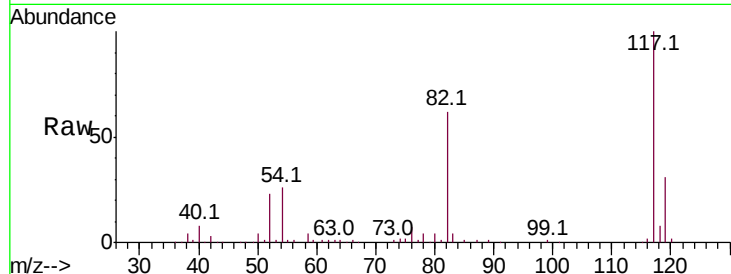




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2462
Delta R.T. -0.00 min
Lab File: VU028694.D
Acq: 14 Dec 2018 19:40

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
117	100		
82	61.6	48.9	73.3
119	31.3	26.2	39.4

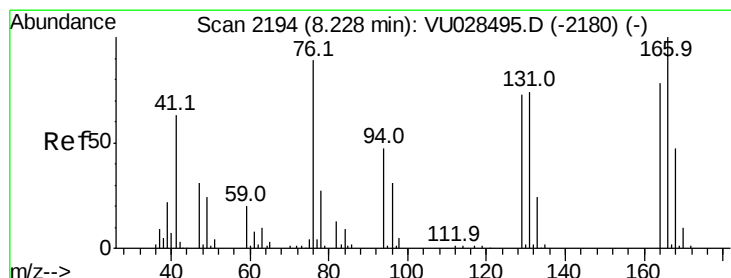
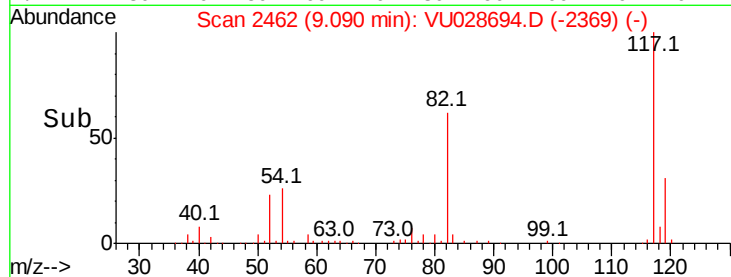
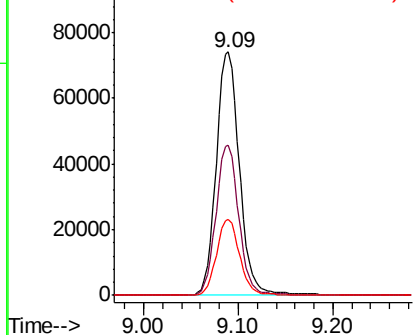


Abundance

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



#64
Tetrachloroethene
Concen: 297.593 ug/l
RT: 8.23 min Scan# 2194
Delta R.T. -0.00 min
Lab File: VU028694.D
Acq: 14 Dec 2018 19:40

Tgt Ion	Ratio	Lower	Upper
164	100		
166	127.2	101.9	152.9
129	96.3	74.9	112.3
131	93.3	75.4	113.0

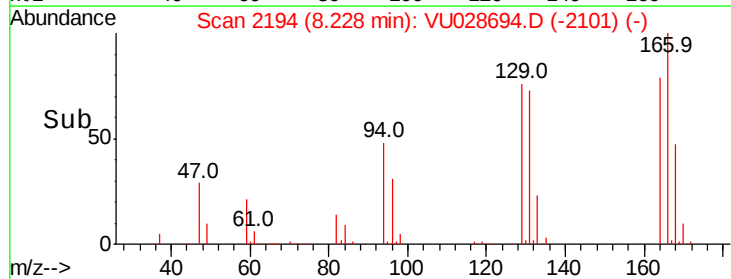
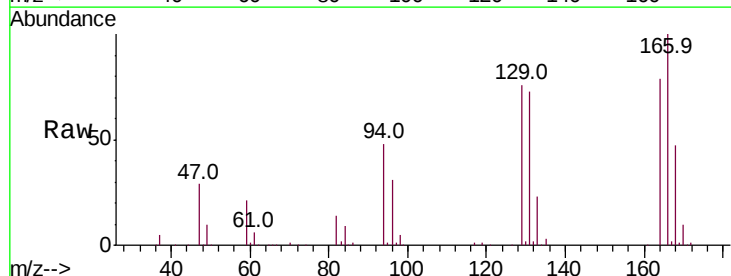
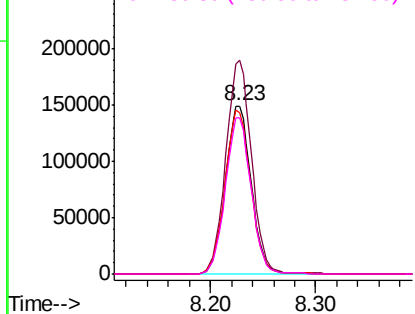
Abundance

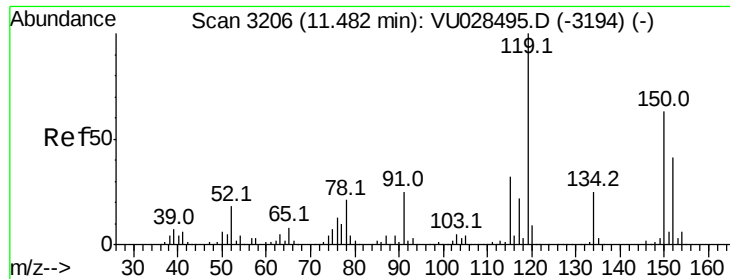
Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.48 min Scan# 3206

Delta R.T. -0.00 min

Lab File: VU028694.D

Acq: 14 Dec 2018 19:40

Instrument :

MSVOA_U

ClientSampleId :

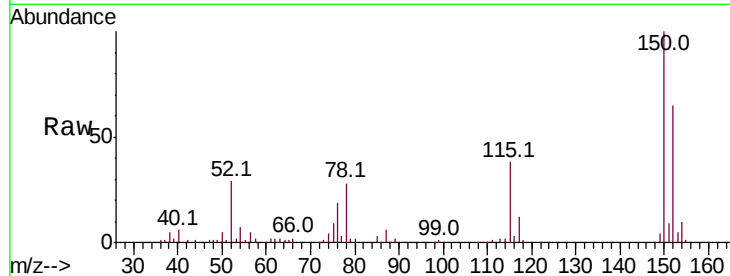
Tot Ion:152 Resp: 50148

Ion Ratio Lower Upper

152 100

115 59.0 42.7 128.1

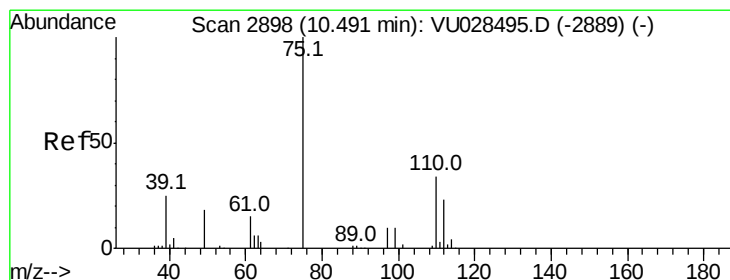
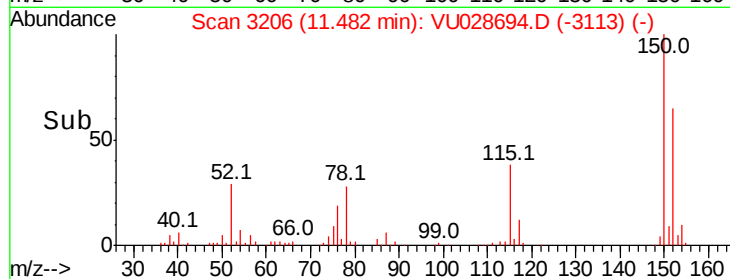
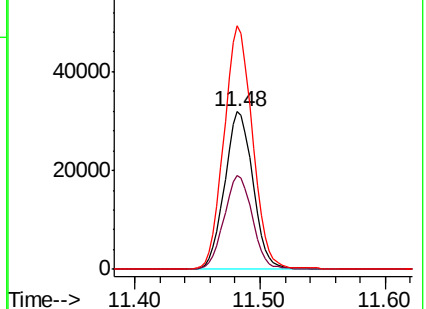
150 155.7 0.0 346.0



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: 24.066 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.19 min

Lab File: VU028694.D

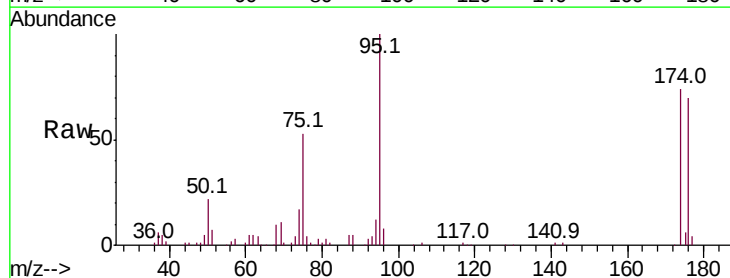
Acq: 14 Dec 2018 19:40

Tgt Ion: 75 Resp: 30817

Ion Ratio Lower Upper

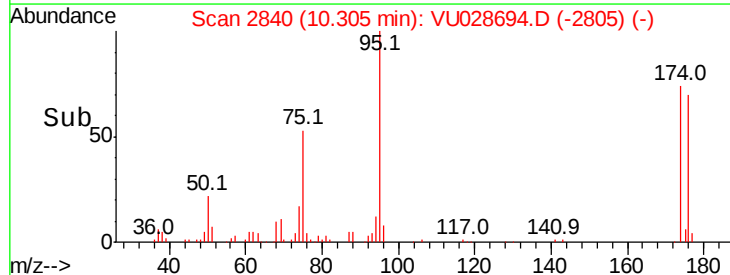
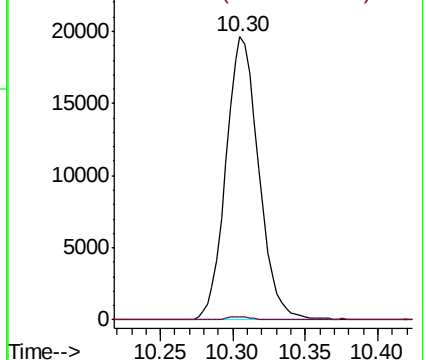
75 100

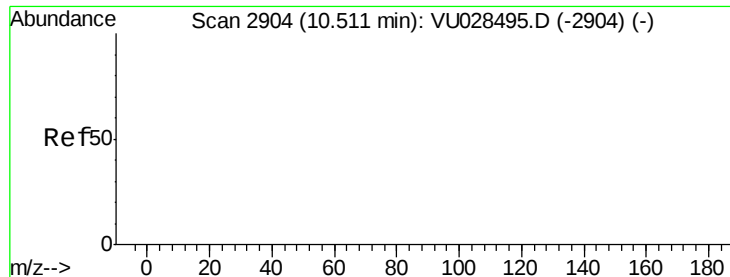
77 0.8 20.8 62.4#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0

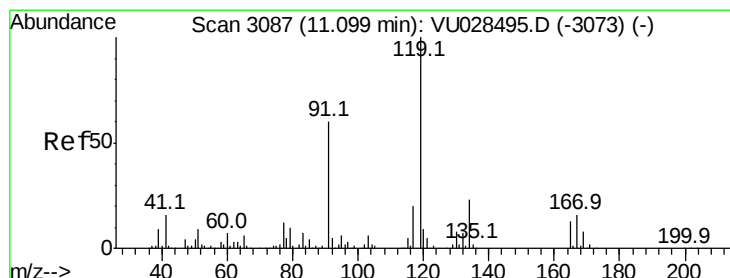
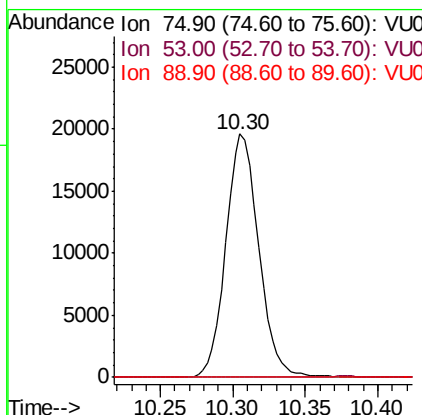
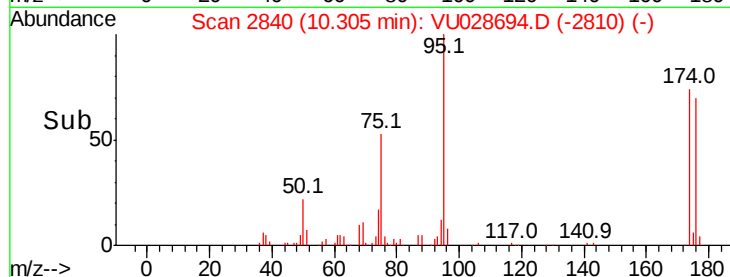
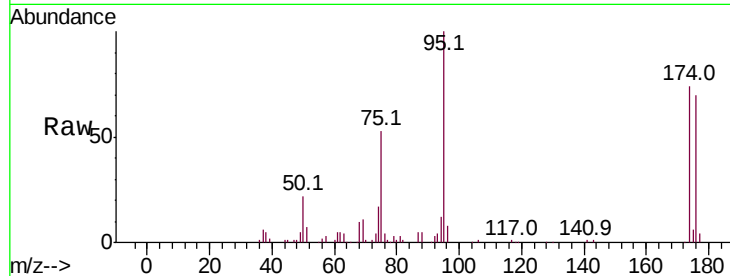




#81
 trans-1,4-Dichloro-2-butene
 Concen: 59.074 ug/l
 RT: 10.30 min Scan# 2840
 Delta R.T. -0.21 min
 Lab File: VU028694.D
 Acq: 14 Dec 2018 19:40

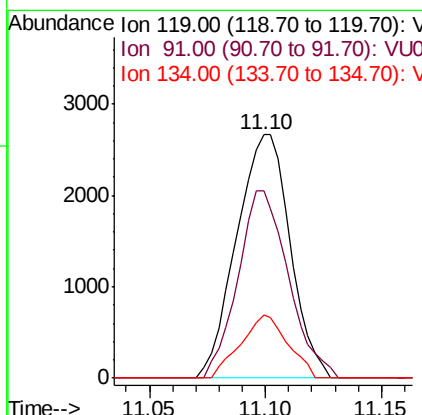
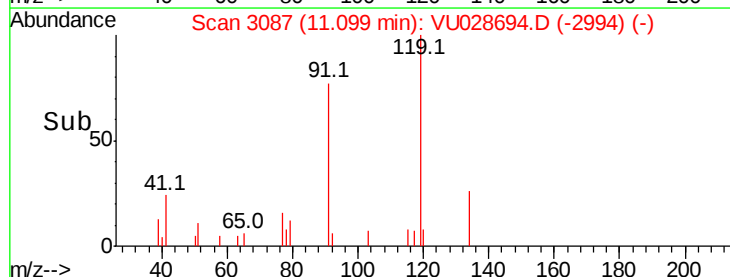
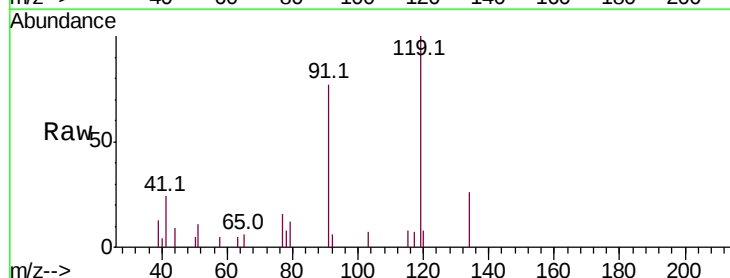
Instrument :
 MSVOA_U
 ClientSampled :

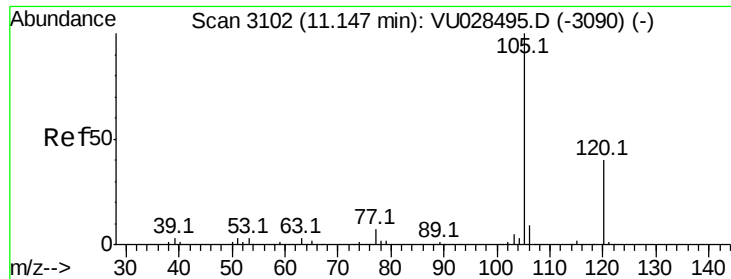
Tot Ion: 75 Resp: 30817
 Ion Ratio Lower Upper
 75 100
 53 0.0 0.0 0.0
 89 0.0 0.0 0.0



#83
 tert-Butylbenzene
 Concen: 1.391 ug/l
 RT: 11.10 min Scan# 3087
 Delta R.T. -0.00 min
 Lab File: VU028694.D
 Acq: 14 Dec 2018 19:40

Tgt Ion: 119 Resp: 4272
 Ion Ratio Lower Upper
 119 100
 91 72.7 30.3 91.0
 134 22.9 11.2 33.5





#84

1,2,4-Trimethylbenzene

Concen: 0.263 ug/l

RT: 11.32 min Scan# 3156

Delta R.T. 0.17 min

Lab File: VU028694.D

Acq: 14 Dec 2018 19:40

Instrument :

MSVOA_U

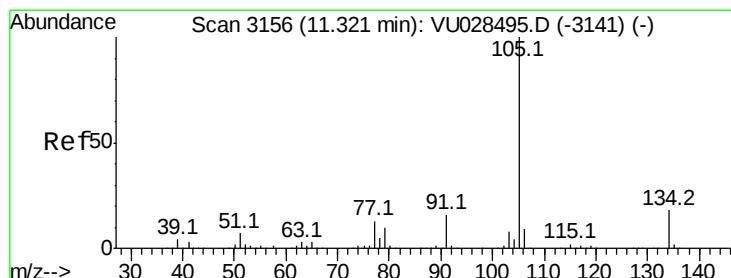
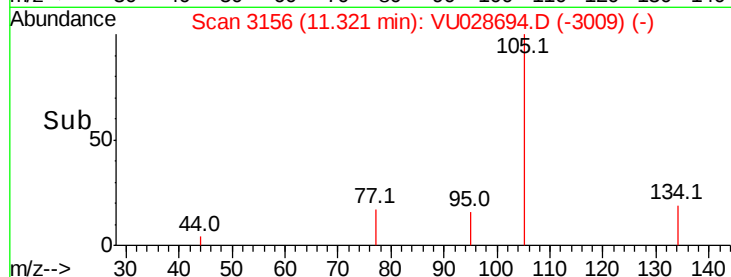
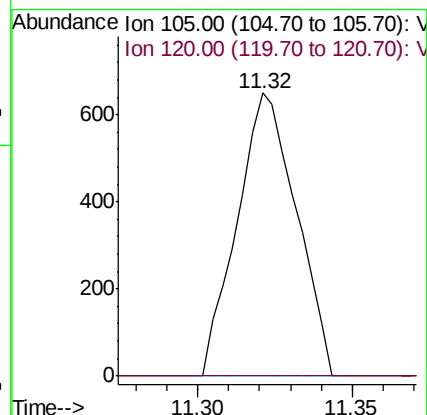
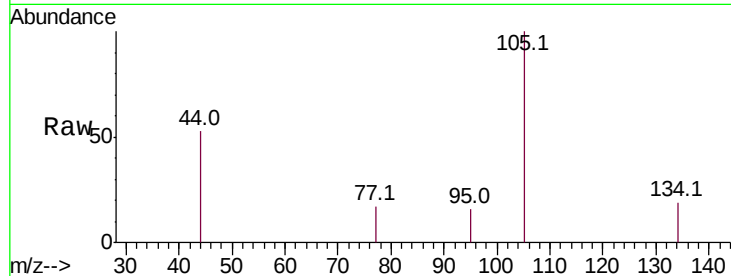
ClientSampleId :

Tot Ion:105 Resp: 864

Ion Ratio Lower Upper

105 100

120 0.0 21.8 65.4#



#85

sec-Butylbenzene

Concen: 0.219 ug/l

RT: 11.32 min Scan# 3156

Delta R.T. -0.00 min

Lab File: VU028694.D

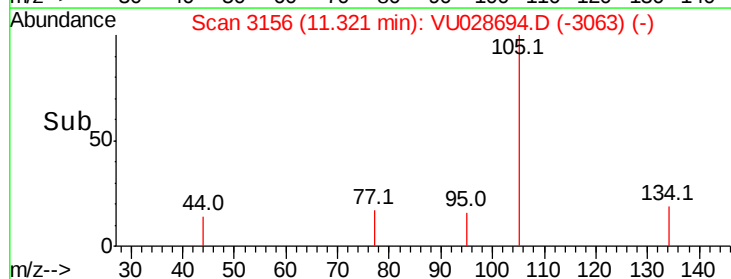
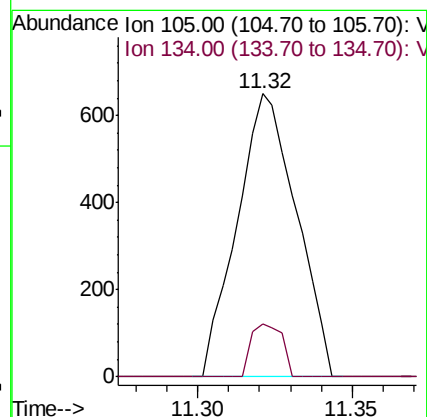
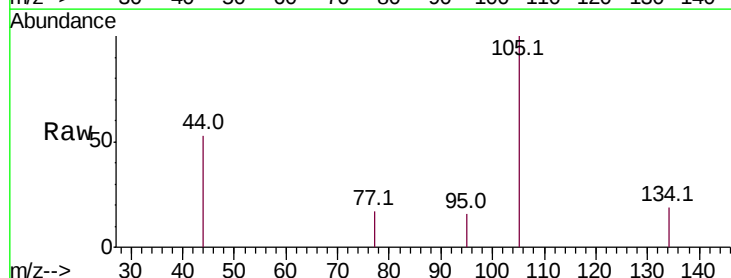
Acq: 14 Dec 2018 19:40

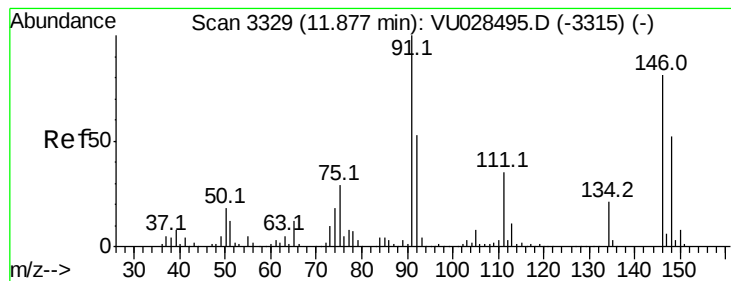
Tgt Ion:105 Resp: 864

Ion Ratio Lower Upper

105 100

134 9.8 9.2 27.6





#91

1,2-Dichlorobenzene

Concen: 1.287 ug/l

RT: 11.88 min Scan# 3329

Delta R.T. -0.00 min

Lab File: VU028694.D

Acq: 14 Dec 2018 19:40

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion:146 Resp: 2187

Ion Ratio Lower Upper

146 100

111 41.6 21.1 63.4

148 69.9 31.4 94.2

