

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU121518\
 Data File : VU028695.D
 Acq On : 14 Dec 2018 20:04
 Operator : MD/SY
 Sample : J6393-09
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Dec 15 00:23:36 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	75829	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	135066	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	124642	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	48585	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	63954	55.27	ug/l	0.00
Spiked Amount			Recovery	=	110.54%	
35) Dibromofluoromethane	4.88	113	47330	55.68	ug/l	0.00
Spiked Amount			Recovery	=	111.36%	
50) Toluene-d8	7.56	98	175977	52.34	ug/l	0.00
Spiked Amount			Recovery	=	104.68%	
62) 4-Bromofluorobenzene	10.31	95	57993	46.15	ug/l	0.00
Spiked Amount			Recovery	=	92.30%	

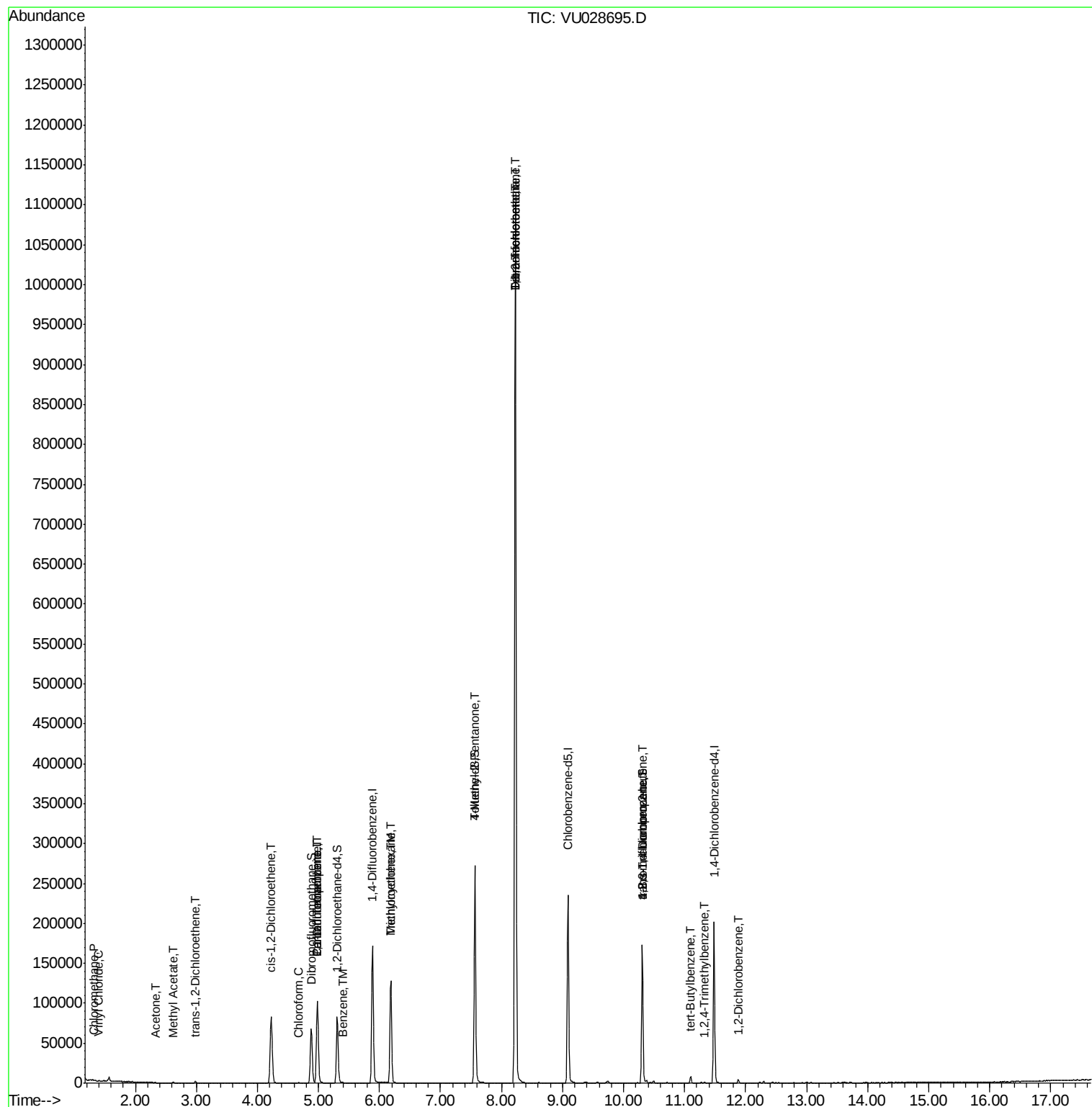
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	865	0.463	ug/l	97
4) Vinyl Chloride	1.40	62	584	0.433	ug/l #	81
16) Acetone	2.32	43	237	0.314	ug/l #	44
18) Methyl Acetate	2.62	43	1337	0.683	ug/l #	84
21) trans-1,2-Dichloroethene	2.98	96	707	0.744	ug/l	97
27) cis-1,2-Dichloroethene	4.22	96	44578	41.433	ug/l	90
30) Chloroform	4.67	83	665	0.375	ug/l #	73
31) Cyclohexane	4.99	56	1911	Below Cal	#	1
36) 1,1-Dichloropropene	4.98	75	6719	4.546	ug/l #	48
38) Carbon Tetrachloride	4.98	117	7507	6.302	ug/l #	15
39) Methylcyclohexane	6.18	83	478	0.265	ug/l #	1
40) Benzene	5.40	78	1296	0.298	ug/l #	89
44) Trichloroethene	6.19	130	42156	43.554	ug/l	100
51) 4-Methyl-2-Pentanone	7.56	43	1067	0.560	ug/l #	1
55) 1,1,2-Trichloroethane	8.22	97	2107	2.081	ug/l #	1
60) Dibromochloromethane	8.23	129	227520	229.475	ug/l #	10
64) Tetrachloroethene	8.23	164	234224	281.725	ug/l	98
76) 1,2,3-Trichloropropane	10.31	75	30491	24.577	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.31	75	30491	60.318	ug/l #	100
83) tert-Butylbenzene	11.10	119	3726	1.253	ug/l	87
84) 1,2,4-Trimethylbenzene	11.32	105	764	0.240	ug/l #	32
91) 1,2-Dichlorobenzene	11.88	146	2003	1.216	ug/l	99

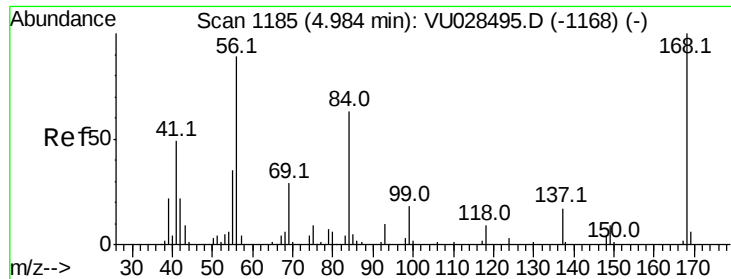
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Dec 15 00:23:36 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: VU028695.D

Acq: 14 Dec 2018 20:04

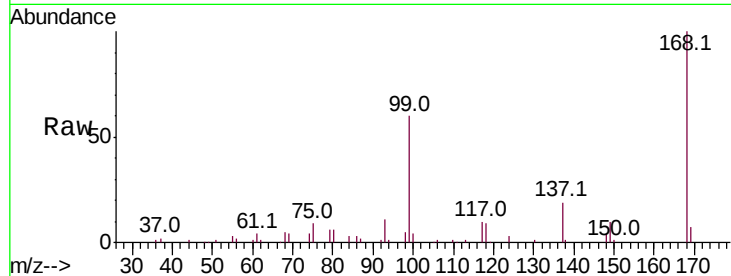
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:168 Resp: 75829

Ion Ratio Lower Upper

168 100

99 60.3 46.6 69.8

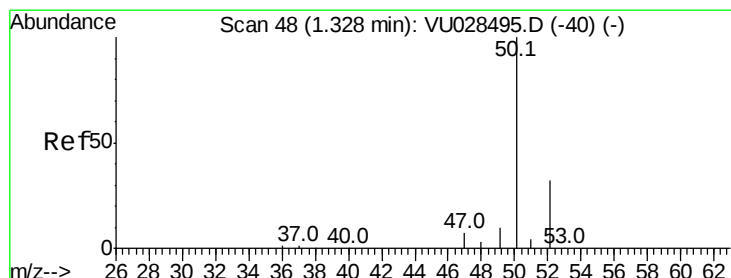
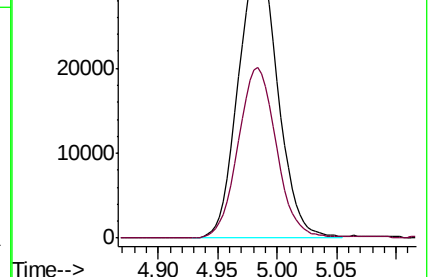
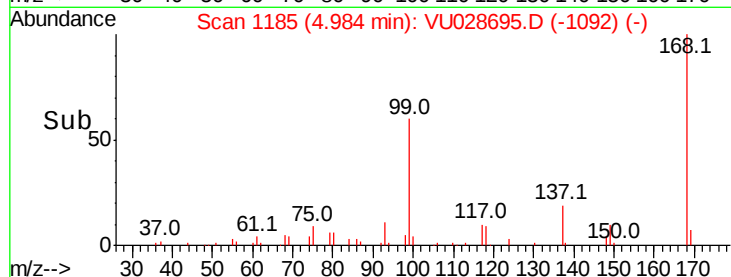


Abundance Ion 167.90 (167.60 to 168.60): VU028495.D (-1168) (-)

Ion 98.90 (98.60 to 99.60): VU028495.D (-1168) (-)

4.98

Time-->



#3

Chloromethane

Concen: 0.463 ug/l

RT: 1.33 min Scan# 48

Delta R.T. 0.00 min

Lab File: VU028695.D

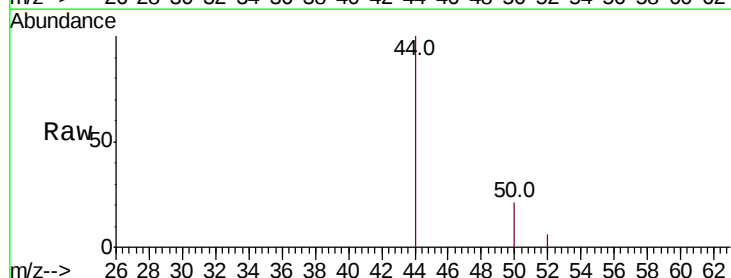
Acq: 14 Dec 2018 20:04

Tgt Ion: 50 Resp: 865

Ion Ratio Lower Upper

50 100

52 30.4 25.5 38.3

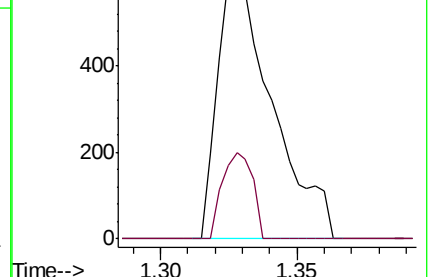
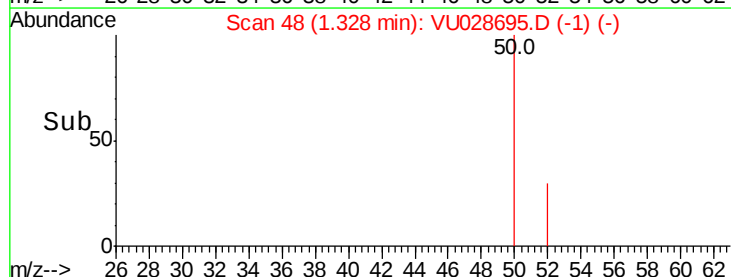


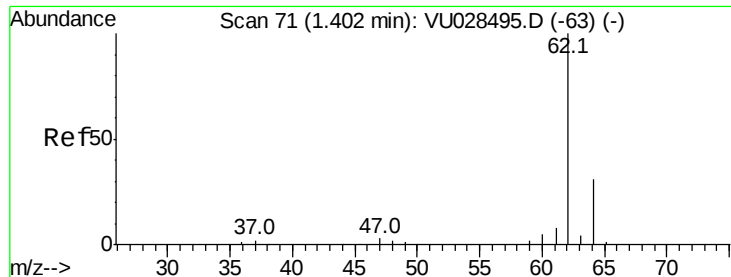
Abundance Ion 49.90 (49.60 to 50.60): VU028495.D (-40) (-)

Ion 51.90 (51.60 to 52.60): VU028495.D (-40) (-)

1.33

Time-->





#4

Vinyl Chloride

Concen: 0.433 ug/l

RT: 1.40 min Scan# 71

Delta R.T. 0.00 min

Lab File: VU028695.D

Acq: 14 Dec 2018 20:04

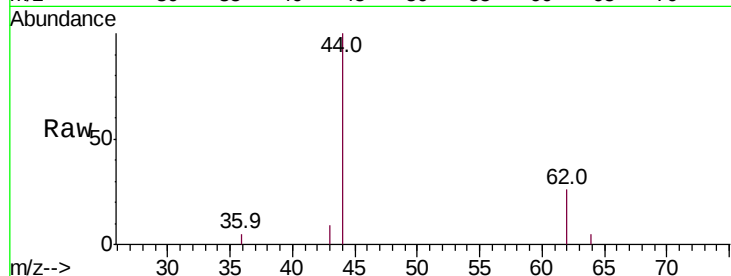
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 62 Resp: 584

Ion Ratio Lower Upper

62 100

64 20.9 25.1 37.7#



Abundance Ion 61.90 (61.60 to 62.60): VU028495.D (-63) (-)

Ion 63.90 (63.60 to 64.60): VU028495.D (-63) (-)

1.40

600

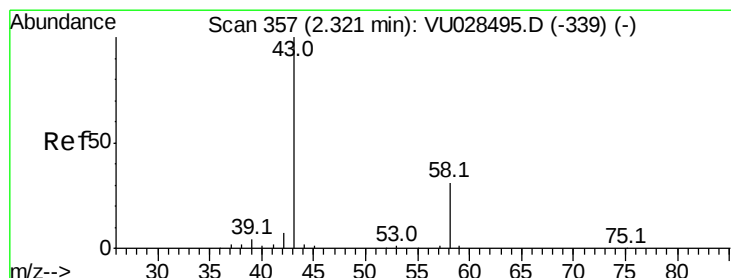
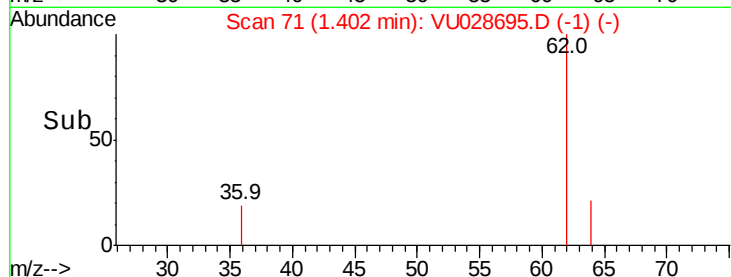
400

200

0

1.38 1.40 1.42

Time-->



#16

Acetone

Concen: 0.314 ug/l

RT: 2.32 min Scan# 357

Delta R.T. 0.00 min

Lab File: VU028695.D

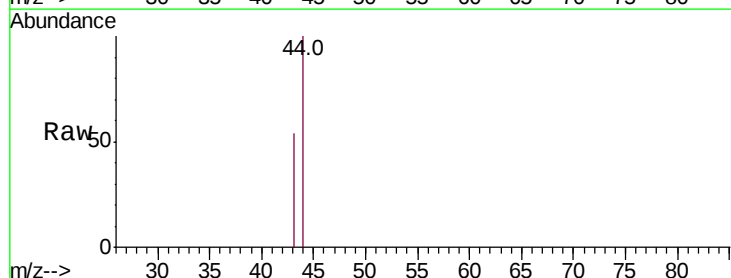
Acq: 14 Dec 2018 20:04

Tgt Ion: 43 Resp: 237

Ion Ratio Lower Upper

43 100

58 0.0 24.6 37.0#



Abundance Ion 43.00 (42.70 to 43.70): VU028495.D (-339) (-)

Ion 58.00 (57.70 to 58.70): VU028495.D (-339) (-)

2.32

250

200

150

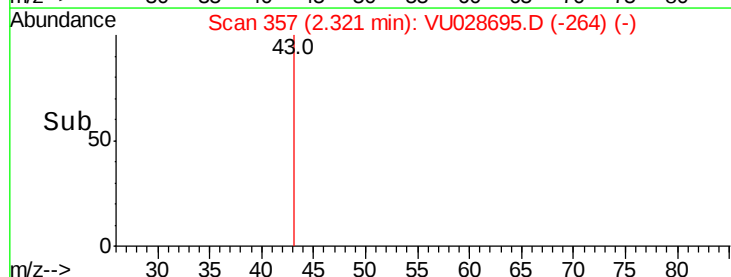
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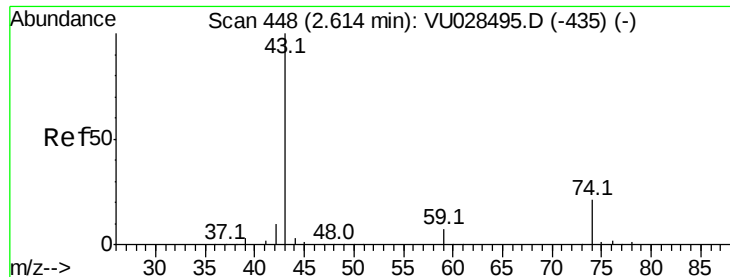
50

0

2.30 2.31 2.32 2.33

Time-->

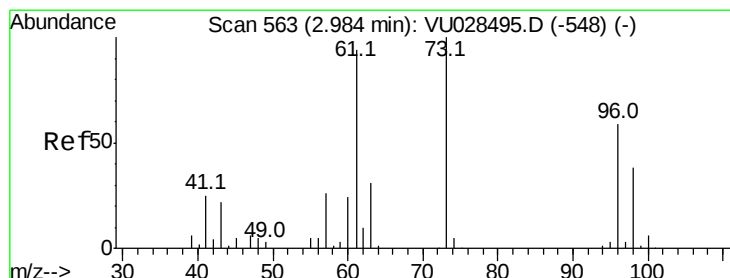
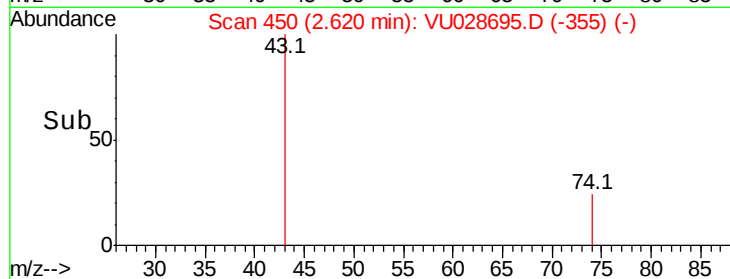
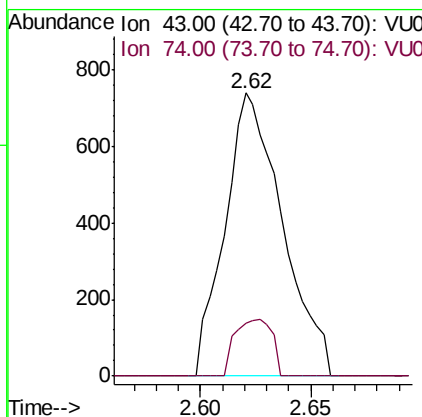
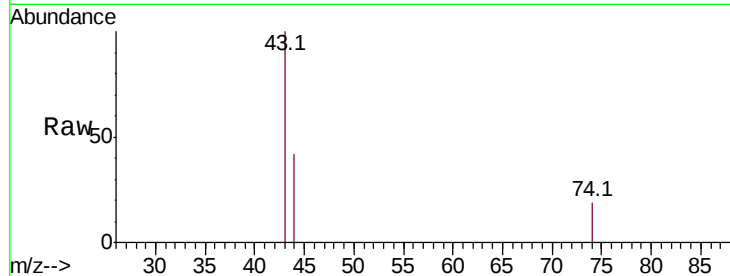




#18
Methvl Acetate
Concen: 0.683 ug/l
RT: 2.62 min Scan# 450
Delta R.T. 0.01 min
Lab File: VU028695.D
Acq: 14 Dec 2018 20:04

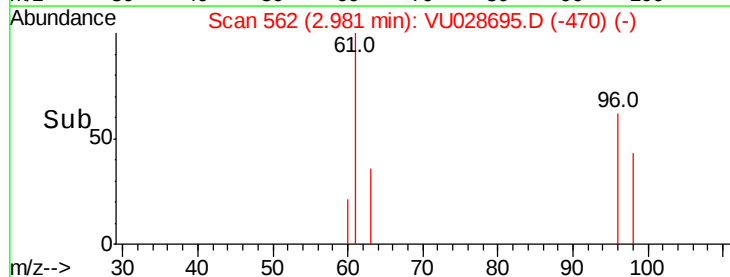
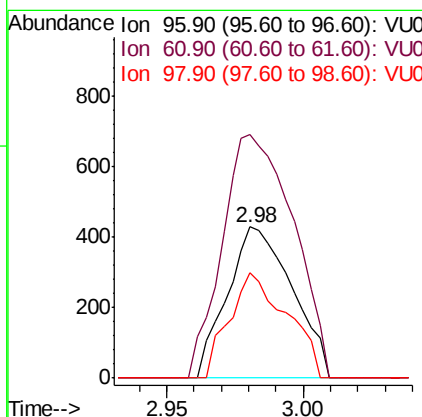
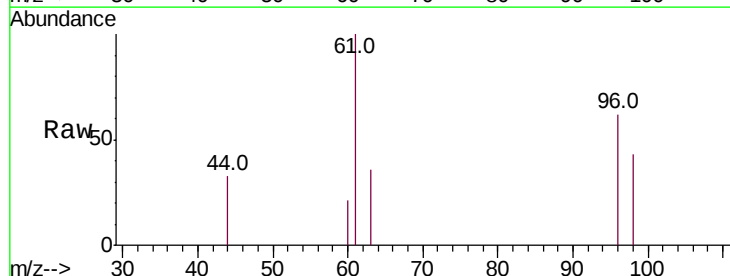
Instrument :
MSVOA_U
ClientSampleId :

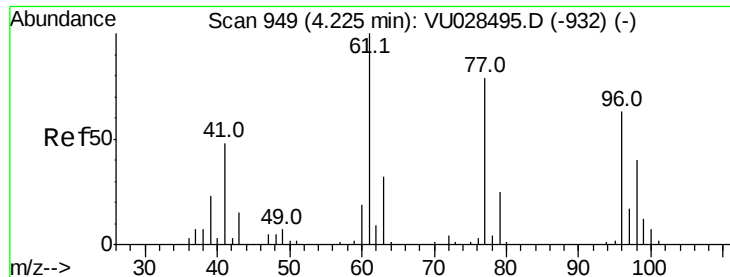
Tot Ion: 43 Resp: 1337
Ion Ratio Lower Upper
43 100
74 13.0 16.4 24.6#



#21
trans-1,2-Dichloroethene
Concen: 0.744 ug/l
RT: 2.98 min Scan# 562
Delta R.T. -0.00 min
Lab File: VU028695.D
Acq: 14 Dec 2018 20:04

Tgt Ion: 96 Resp: 707
Ion Ratio Lower Upper
96 100
61 161.4 127.0 190.4
98 69.4 51.9 77.9



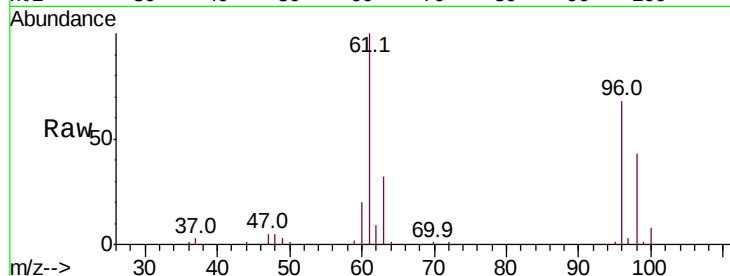


#27

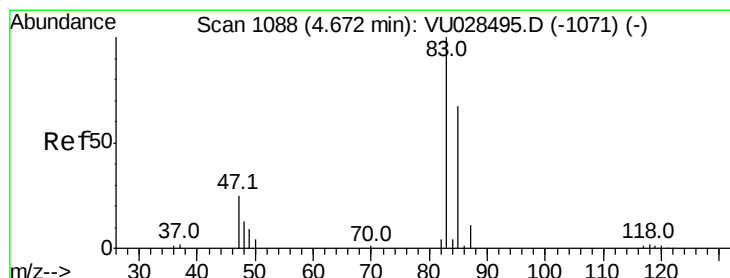
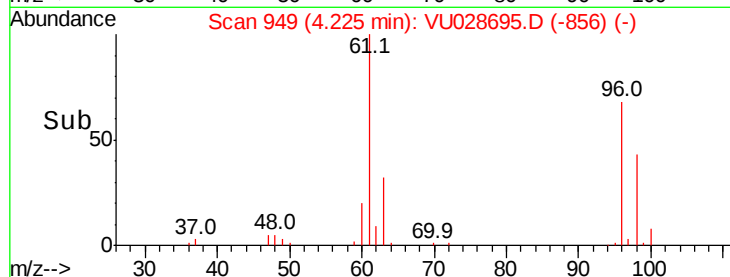
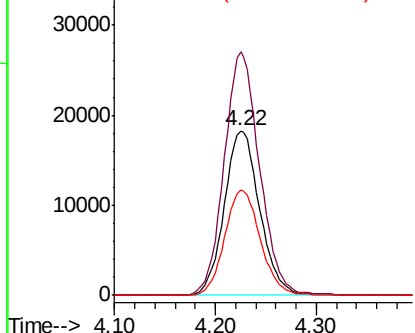
cis-1,2-Dichloroethene
 Concen: 41.433 ug/l
 RT: 4.22 min Scan# 949
 Delta R.T. 0.00 min
 Lab File: VU028695.D
 Acq: 14 Dec 2018 20:04

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 96 Resp: 44578
 Ion Ratio Lower Upper
 96 100
 61 147.8 0.0 332.4
 98 64.4 0.0 129.0



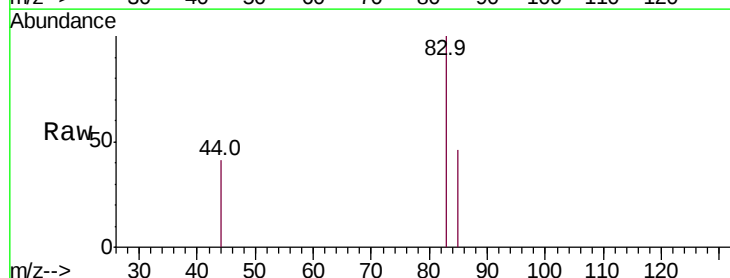
Abundance Ion 95.90 (95.60 to 96.60): VU0
 Ion 60.90 (60.60 to 61.60): VU0
 Ion 97.90 (97.60 to 98.60): VU0



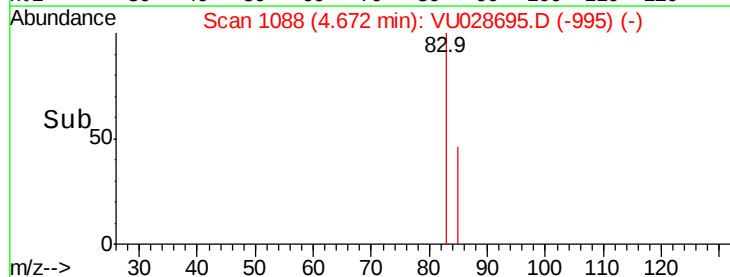
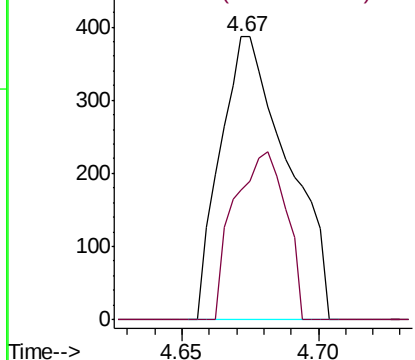
#30

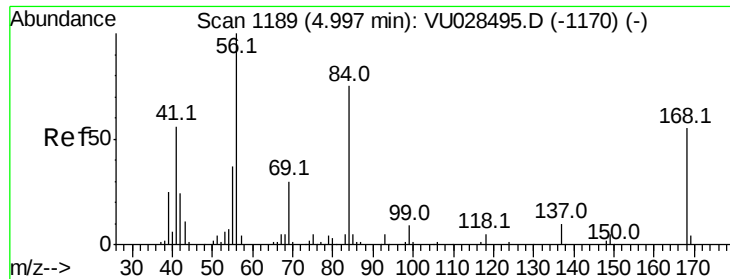
Chloroform
 Concen: 0.375 ug/l
 RT: 4.67 min Scan# 1088
 Delta R.T. 0.00 min
 Lab File: VU028695.D
 Acq: 14 Dec 2018 20:04

Tgt Ion: 83 Resp: 665
 Ion Ratio Lower Upper
 83 100
 85 45.7 53.6 80.4#



Abundance Ion 82.90 (82.60 to 83.60): VU0
 Ion 84.90 (84.60 to 85.60): VU0

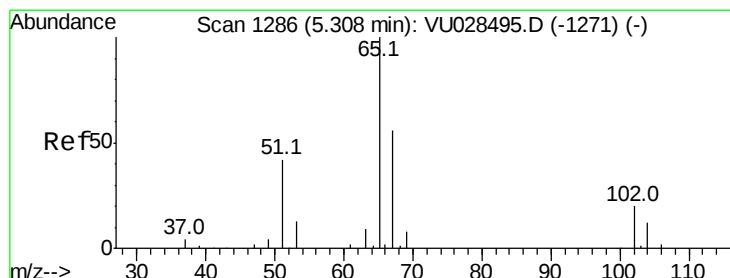
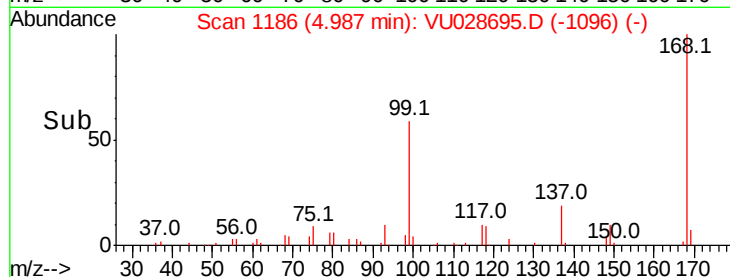
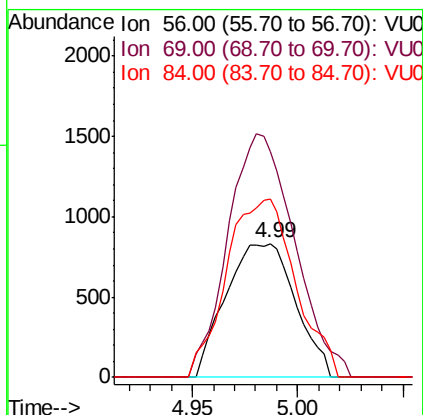
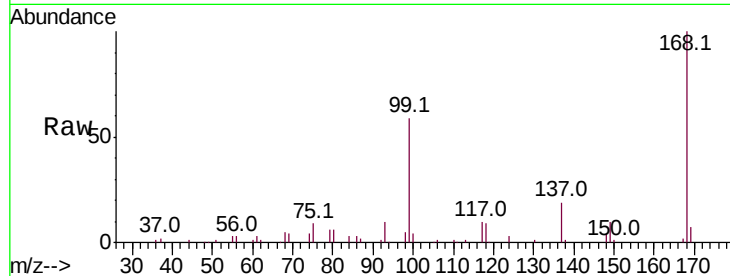




#31
Cyclohexane
Concen: Below Cal
RT: 4.99 min Scan# 1186
Delta R.T. -0.01 min
Lab File: VU028695.D
Acq: 14 Dec 2018 20:04

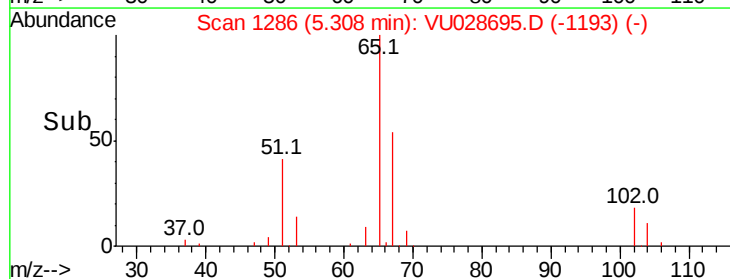
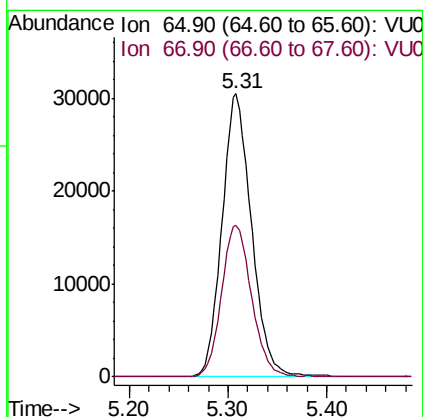
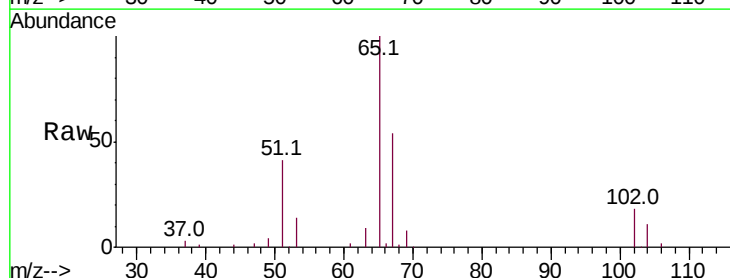
Instrument :
MSVOA_U
ClientSampleId :

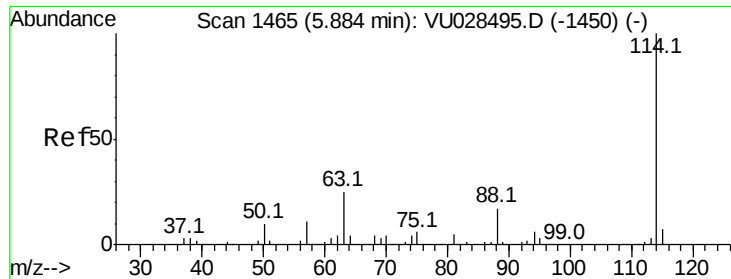
Tot Ion	Ratio	Lower	Upper
56	100		
69	169.2	24.0	36.0#
84	133.5	59.7	89.5#



#33
1,2-Dichloroethane-d4
Concen: 55.266 ug/l
RT: 5.31 min Scan# 1286
Delta R.T. 0.00 min
Lab File: VU028695.D
Acq: 14 Dec 2018 20:04

Tgt Ion	Ratio	Lower	Upper
65	100		
67	54.2	0.0	110.6

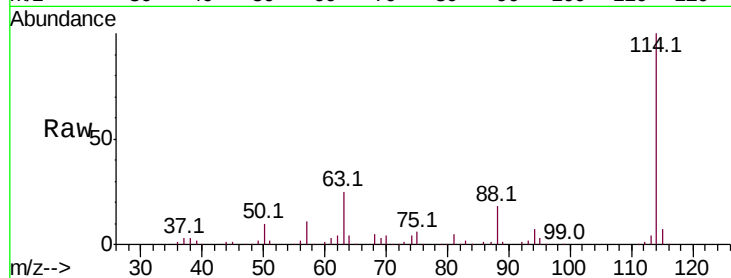




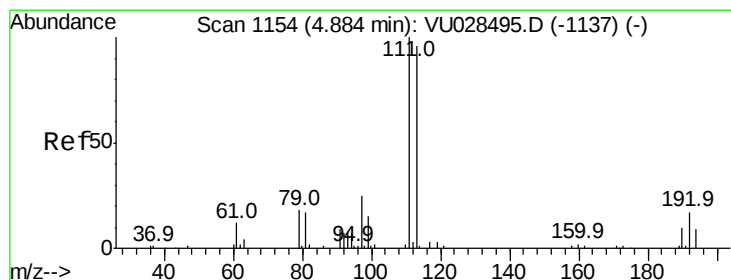
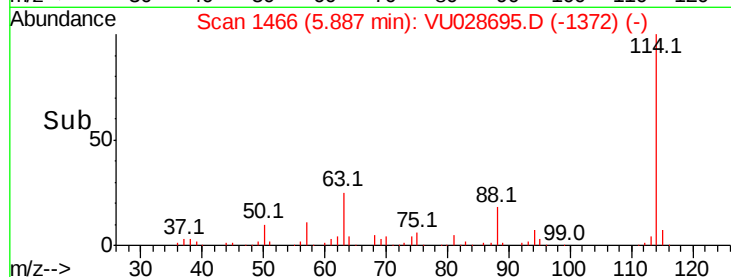
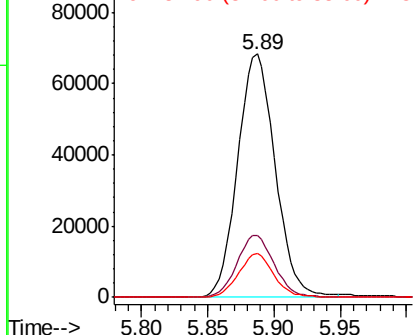
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1466
 Delta R.T. 0.00 min
 Lab File: VU028695.D
 Acq: 14 Dec 2018 20:04

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:114 Resp: 135066
 Ion Ratio Lower Upper
 114 100
 63 25.4 0.0 49.2
 88 17.9 0.0 33.4

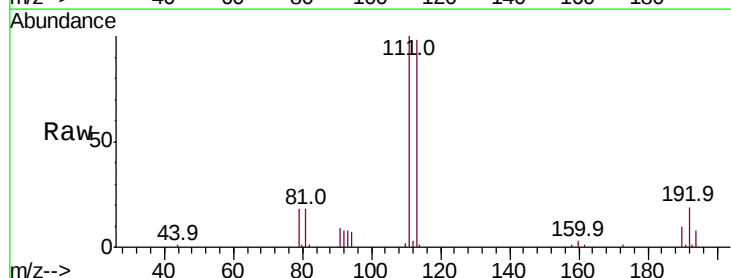


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VU0
 Ion 87.90 (87.60 to 88.60): VU0

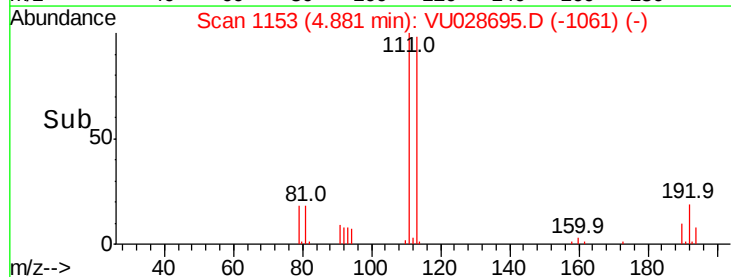
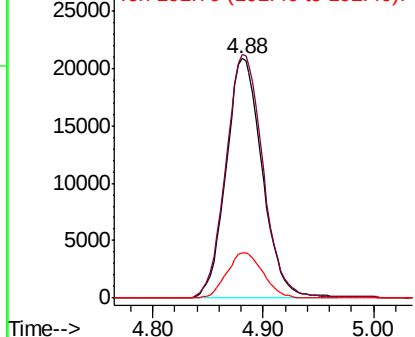


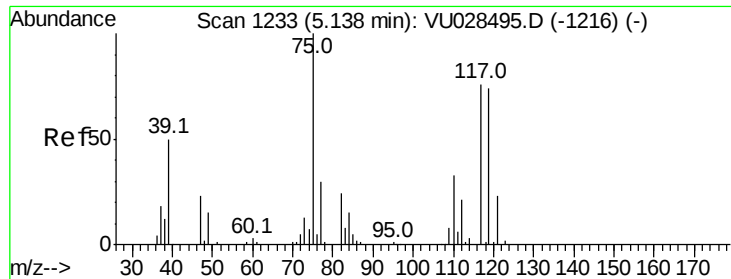
#35
 Dibromofluoromethane
 Concen: 55.684 ug/l
 RT: 4.88 min Scan# 1153
 Delta R.T. -0.00 min
 Lab File: VU028695.D
 Acq: 14 Dec 2018 20:04

Tgt Ion:113 Resp: 47330
 Ion Ratio Lower Upper
 113 100
 111 104.1 83.4 125.0
 192 18.9 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

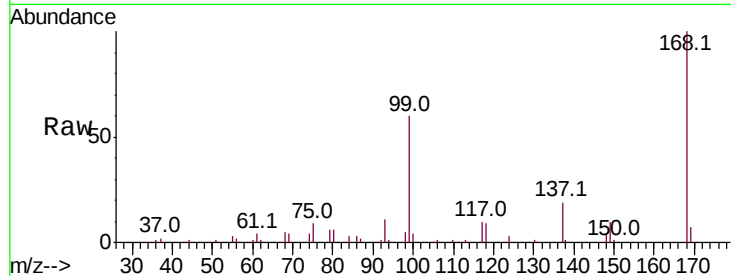




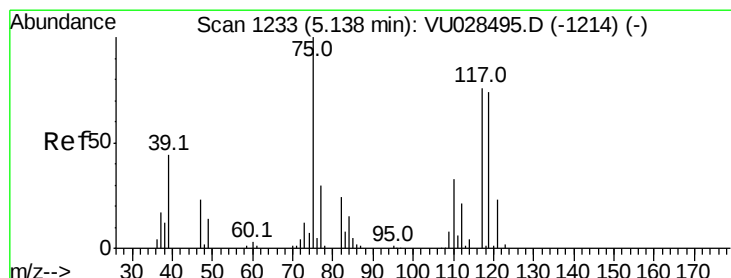
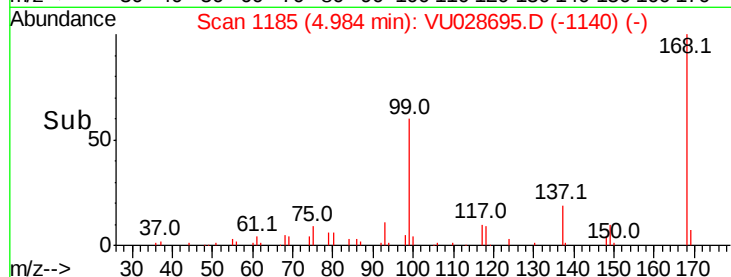
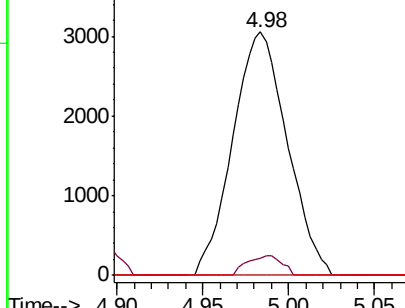
#36
 1,1-Dichloropropene
 Concen: 4.546 ug/l
 RT: 4.98 min Scan# 1185
 Delta R.T. -0.15 min
 Lab File: VU028695.D
 Acq: 14 Dec 2018 20:04

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 75 Resp: 6719
 Ion Ratio Lower Upper
 75 100
 110 5.1 16.1 48.2#
 77 0.0 24.5 36.7#

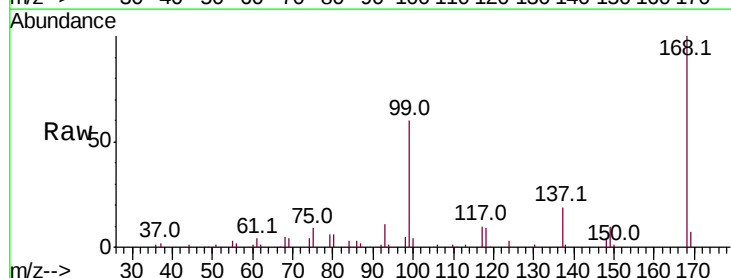


Abundance Ion 74.90 (74.60 to 75.60): VU028495.D (-1216) (-)
 Ion 109.90 (109.60 to 110.60): VU028495.D (-1216) (-)
 Ion 76.90 (76.60 to 77.60): VU028495.D (-1216) (-)

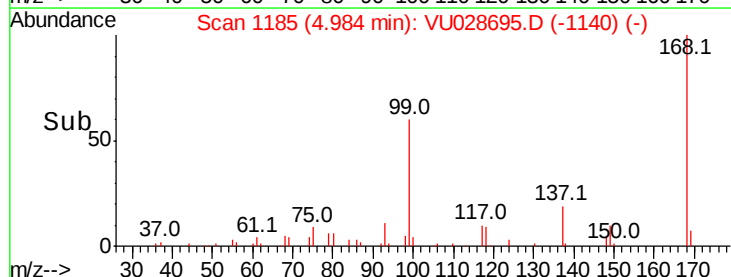
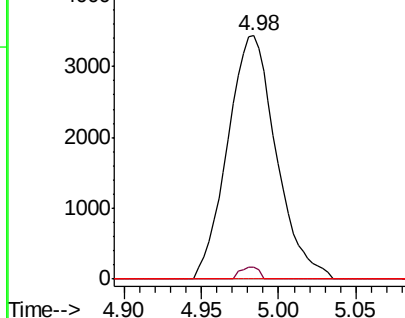


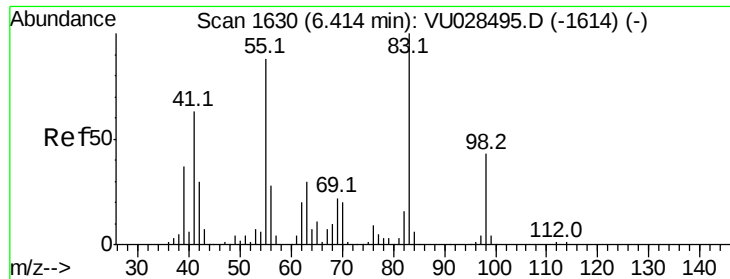
#38
 Carbon Tetrachloride
 Concen: 6.302 ug/l
 RT: 4.98 min Scan# 1185
 Delta R.T. -0.15 min
 Lab File: VU028695.D
 Acq: 14 Dec 2018 20:04

Tgt Ion: 117 Resp: 7507
 Ion Ratio Lower Upper
 117 100
 119 4.8 77.6 116.4#
 121 0.0 24.6 36.8#



Abundance Ion 116.80 (116.50 to 117.50): VU028495.D (-1214) (-)
 Ion 118.80 (118.50 to 119.50): VU028495.D (-1214) (-)
 Ion 120.80 (120.50 to 121.50): VU028495.D (-1214) (-)





#39

Methvlcvclohexane

Concen: 0.265 ug/l

RT: 6.18 min Scan# 1557

Delta R.T. -0.23 min

Lab File: VU028695.D

Acq: 14 Dec 2018 20:04

Instrument :

MSVOA_U

ClientSampleId :

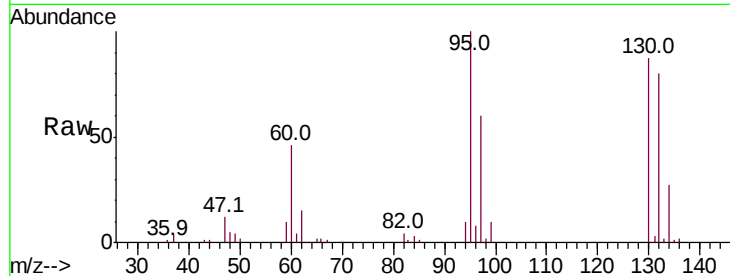
Tot Ion: 83 Resp: 478

Ion Ratio Lower Upper

83 100

55 0.0 70.2 105.2#

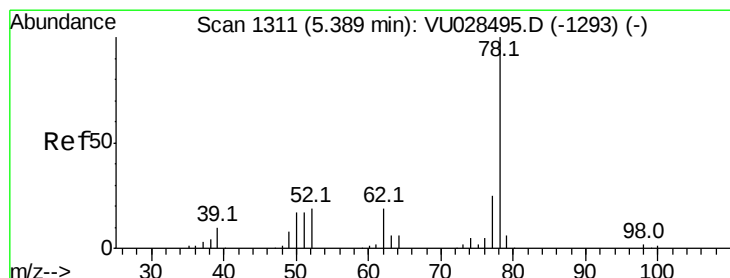
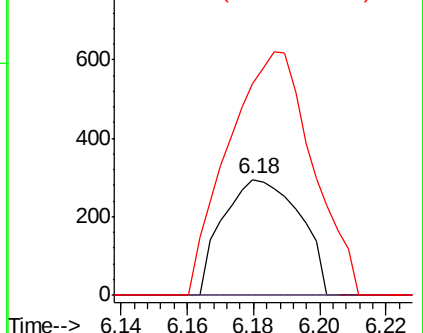
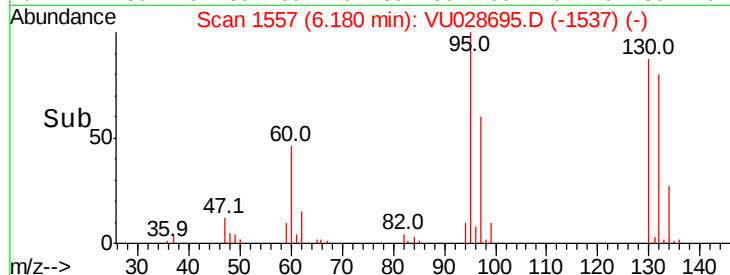
98 182.4 34.2 51.4#



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



#40

Benzene

Concen: 0.298 ug/l

RT: 5.40 min Scan# 1313

Delta R.T. 0.01 min

Lab File: VU028695.D

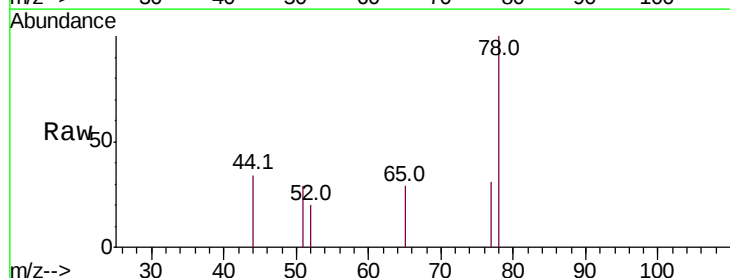
Acq: 14 Dec 2018 20:04

Tgt Ion: 78 Resp: 1296

Ion Ratio Lower Upper

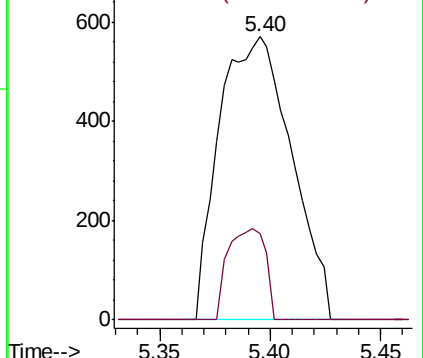
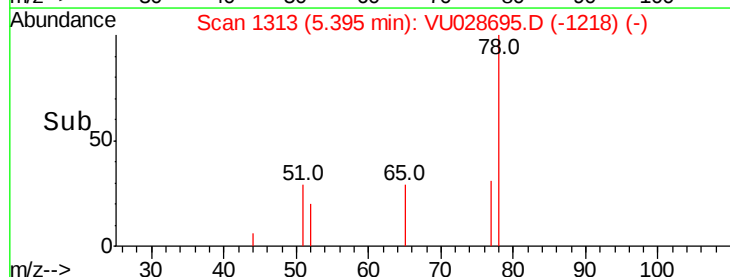
78 100

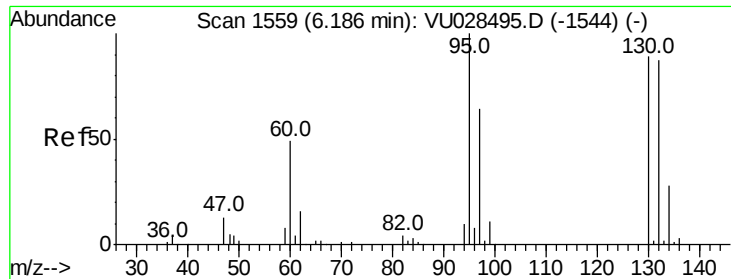
77 30.5 19.9 29.9#



Abundance Ion 78.00 (77.70 to 78.70): VU0

Ion 77.00 (76.70 to 77.70): VU0





#44

Trichloroethene

Concen: 43.554 ug/l

RT: 6.19 min Scan# 1559

Delta R.T. 0.00 min

Lab File: VU028695.D

Acq: 14 Dec 2018 20:04

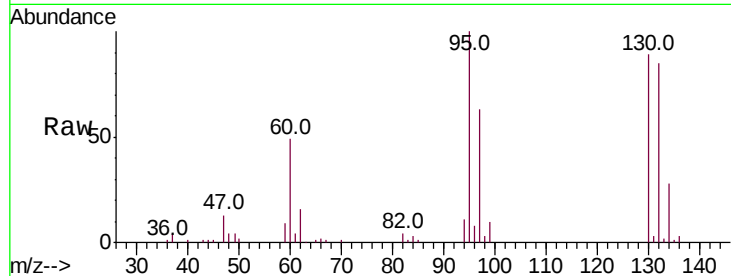
Instrument :
MSVOA_U
ClientSampled :

Tot Ion:130 Resp: 42156

Ion Ratio Lower Upper

130 100

95 112.2 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) (-)

6.19

25000

20000

15000

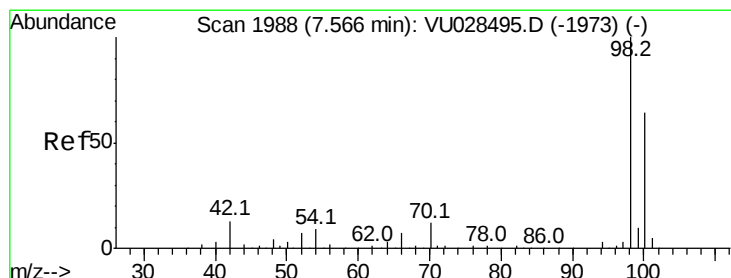
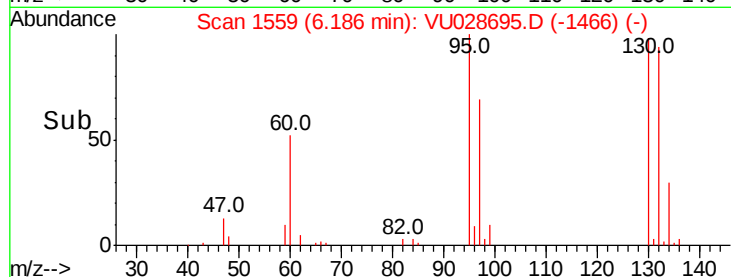
10000

5000

0

Time-->

6.10 6.15 6.20 6.25



#50

Toluene-d8

Concen: 52.337 ug/l

RT: 7.56 min Scan# 1987

Delta R.T. -0.00 min

Lab File: VU028695.D

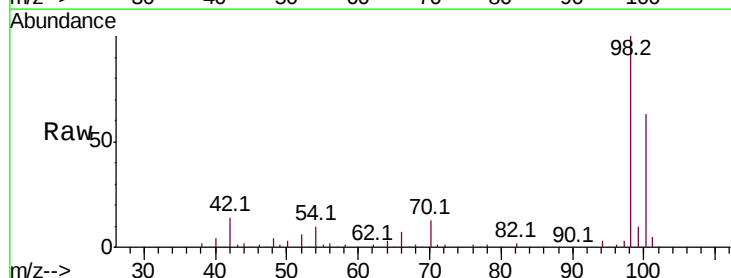
Acq: 14 Dec 2018 20:04

Tgt Ion: 98 Resp: 175977

Ion Ratio Lower Upper

98 100

100 64.0 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) (-)

7.56

120000

100000

80000

60000

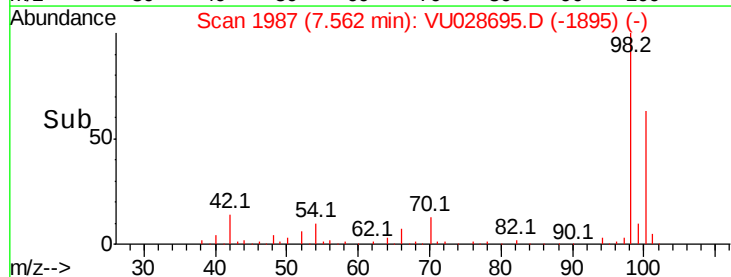
40000

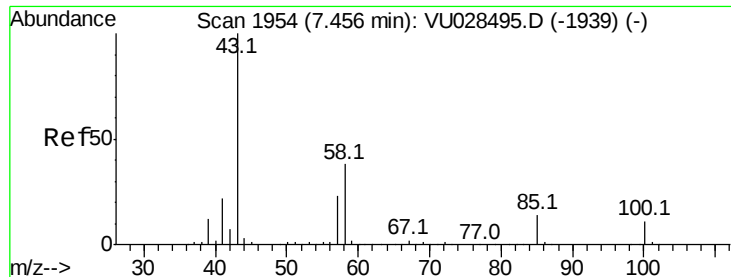
20000

0

Time-->

7.50 7.55 7.60 7.65





#51

4-Methyl-2-Pentanone

Concen: 0.560 ug/l

RT: 7.56 min Scan# 1987

Delta R.T. 0.11 min

Lab File: VU028695.D

Acq: 14 Dec 2018 20:04

Instrument :

MSVOA_U

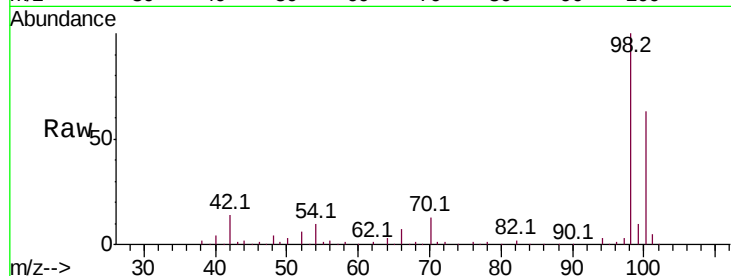
ClientSampled :

Tot Ion: 43 Resp: 1067

Ion Ratio Lower Upper

43 100

58 149.5 30.2 45.2#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

1200

1000

800

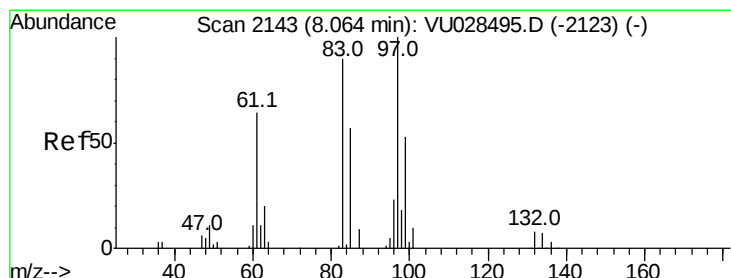
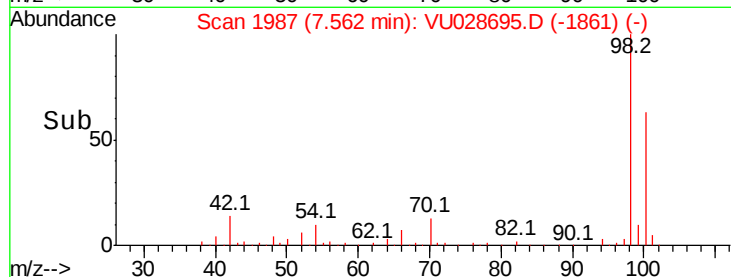
600

400

200

0

Time--> 7.50 7.55 7.60



#55

1,1,2-Trichloroethane

Concen: 2.081 ug/l

RT: 8.22 min Scan# 2193

Delta R.T. 0.16 min

Lab File: VU028695.D

Acq: 14 Dec 2018 20:04

Tgt Ion: 97 Resp: 2107

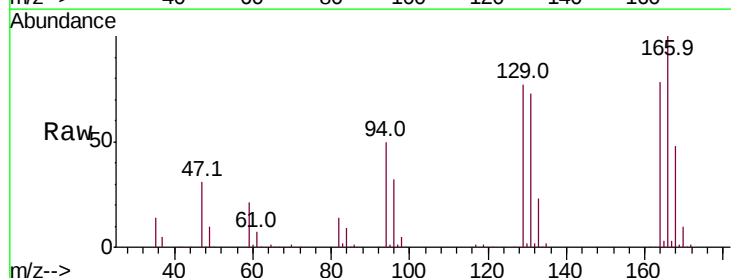
Ion Ratio Lower Upper

97 100

83 278.9 72.4 108.6#

85 39.9 46.0 69.0#

99 12.6 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

6000

5000

4000

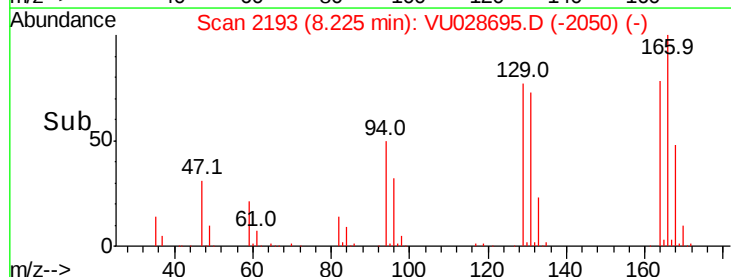
3000

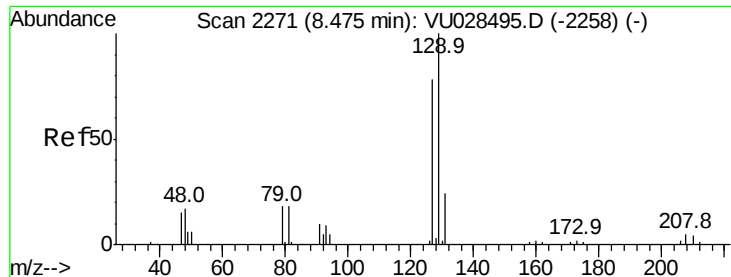
2000

1000

0

Time--> 8.20 8.25





#60

Dibromochloromethane

Concen: 229.475 ug/l

RT: 8.23 min Scan# 2194

Delta R.T. -0.25 min

Lab File: VU028695.D

Acq: 14 Dec 2018 20:04

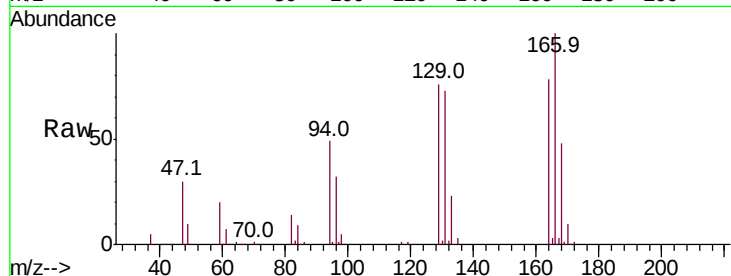
Instrument :
MSVOA_U
ClientSampled :

Tot Ion:129 Resp: 227520

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

8.23

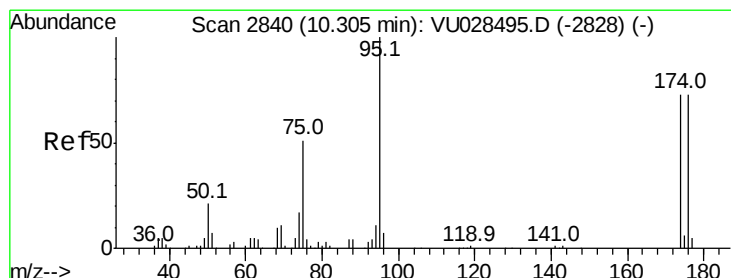
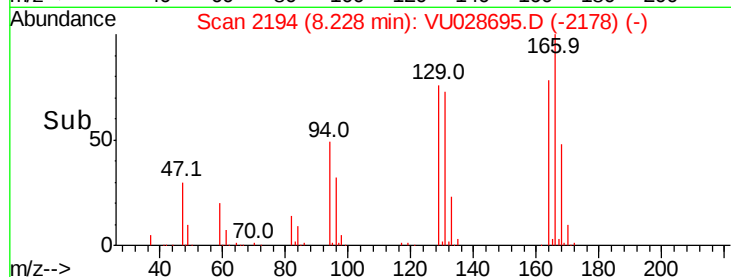
150000

100000

50000

0

Time--> 8.15 8.20 8.25 8.30



#62

4-Bromofluorobenzene

Concen: 46.146 ug/l

RT: 10.31 min Scan# 2840

Delta R.T. 0.00 min

Lab File: VU028695.D

Acq: 14 Dec 2018 20:04

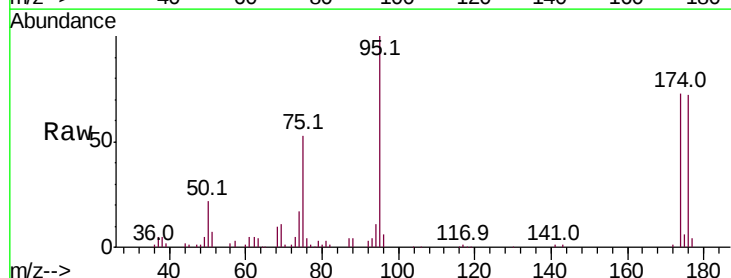
Tgt Ion: 95 Resp: 57993

Ion Ratio Lower Upper

95 100

174 74.3 0.0 150.4

176 73.8 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

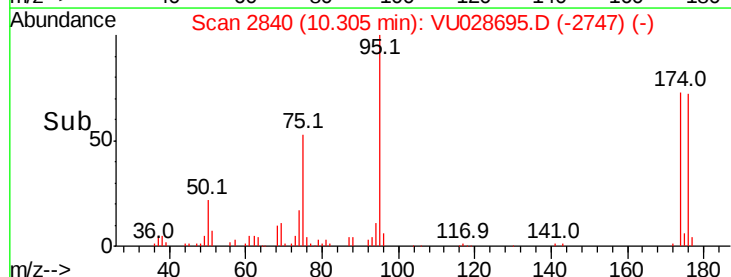
30000

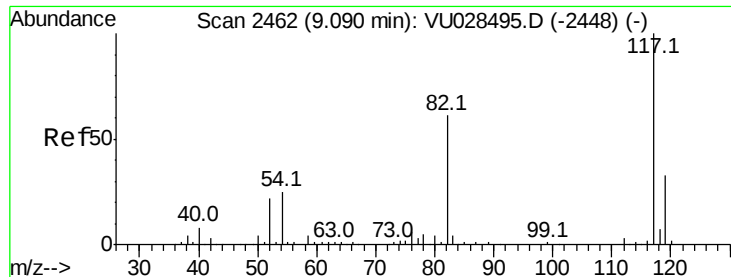
20000

10000

0

Time--> 10.25 10.30 10.35

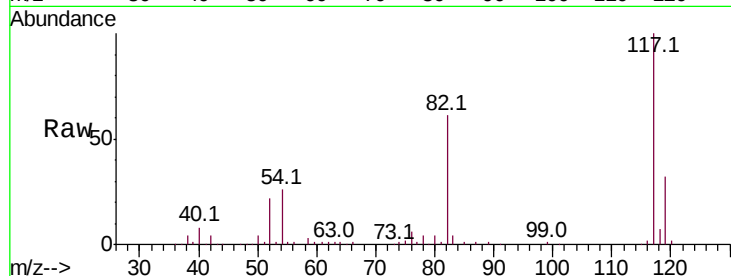




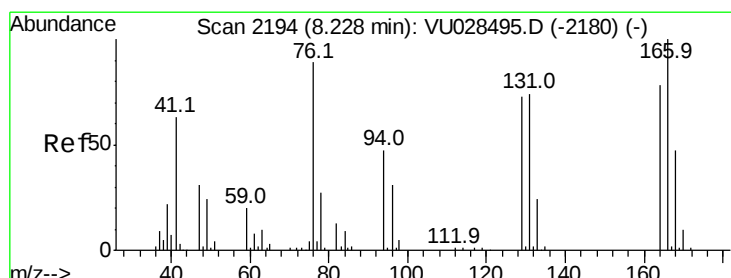
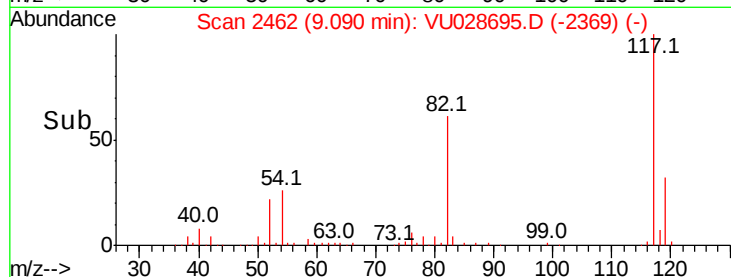
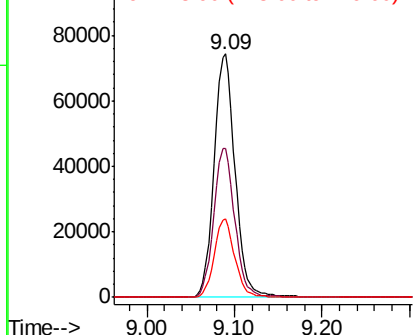
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2462
Delta R.T. 0.00 min
Lab File: VU028695.D
Acq: 14 Dec 2018 20:04

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
117	100		
82	60.9	48.9	73.3
119	32.0	26.2	39.4



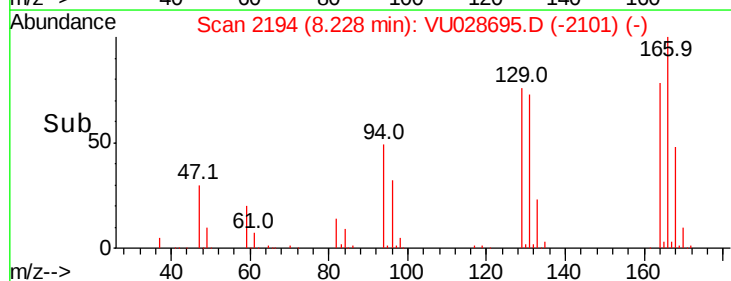
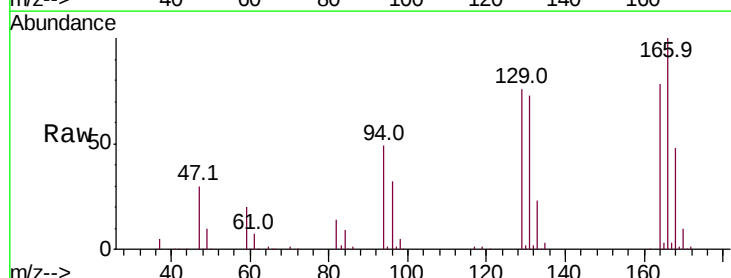
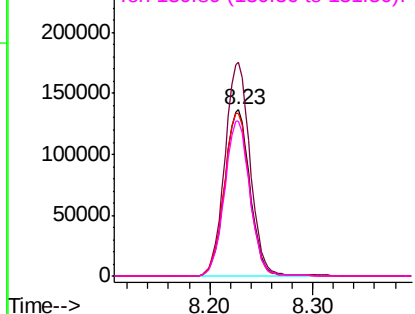
Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

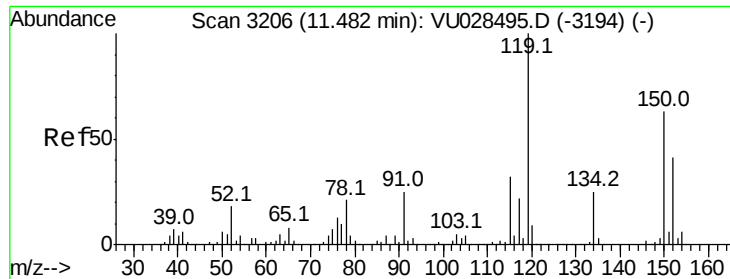


#64
Tetrachloroethene
Concen: 281.725 ug/l
RT: 8.23 min Scan# 2194
Delta R.T. 0.00 min
Lab File: VU028695.D
Acq: 14 Dec 2018 20:04

Tgt Ion	Ratio	Lower	Upper
164	100		
166	128.8	101.9	152.9
129	98.2	74.9	112.3
131	93.6	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: VU028695.D

Acq: 14 Dec 2018 20:04

Instrument :

MSVOA_U

ClientSampleId :

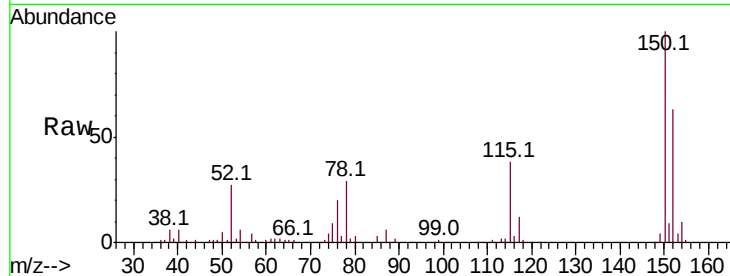
Tot Ion:152 Resp: 48585

Ion Ratio Lower Upper

152 100

115 60.5 42.7 128.1

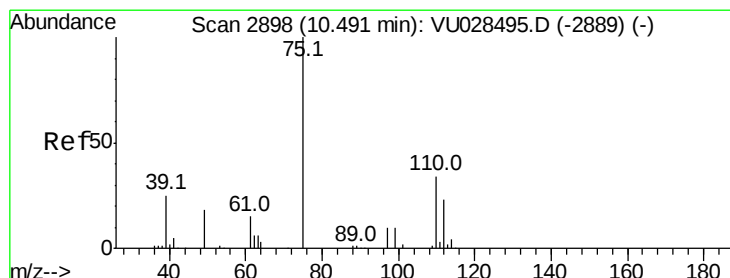
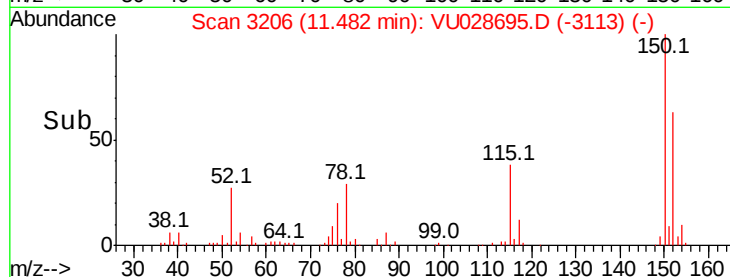
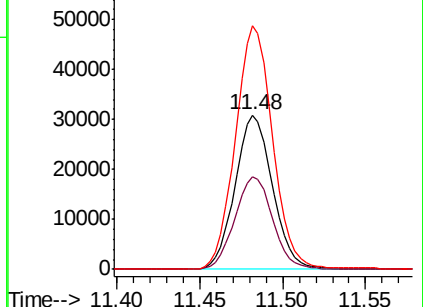
150 157.6 0.0 346.0



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: 24.577 ug/l

RT: 10.31 min Scan# 2840

Delta R.T. -0.19 min

Lab File: VU028695.D

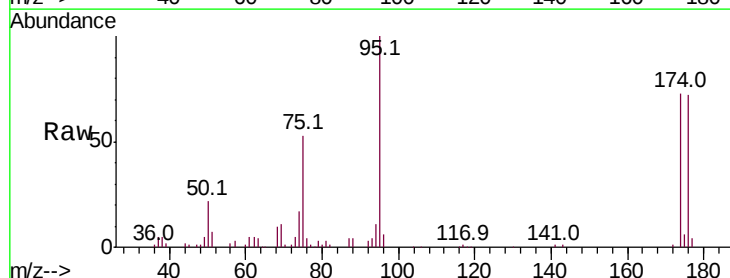
Acq: 14 Dec 2018 20:04

Tgt Ion: 75 Resp: 30491

Ion Ratio Lower Upper

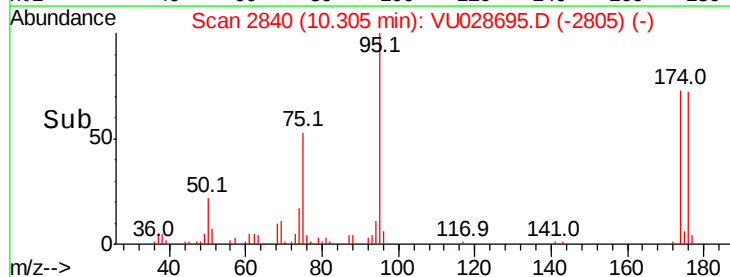
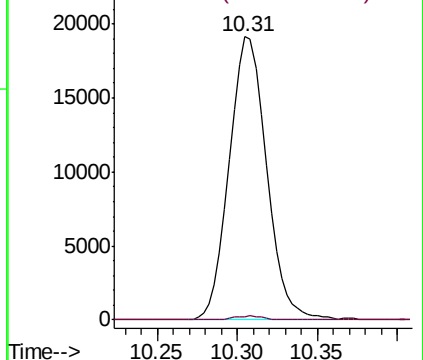
75 100

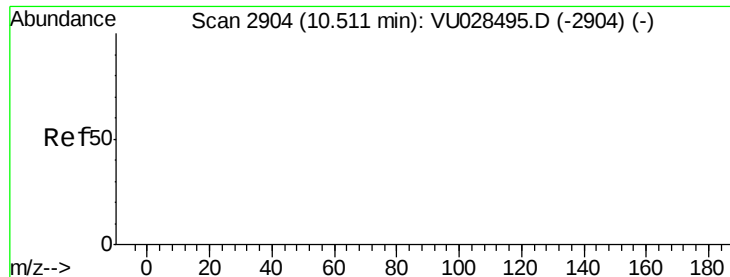
77 1.0 20.8 62.4#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0

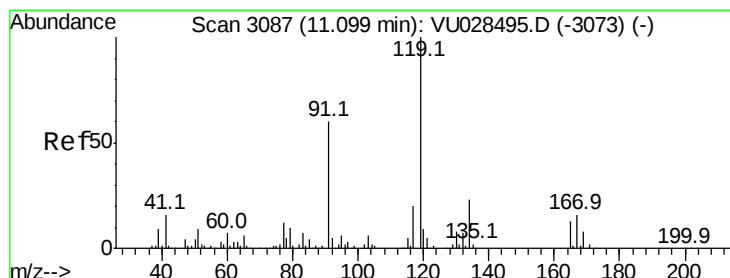
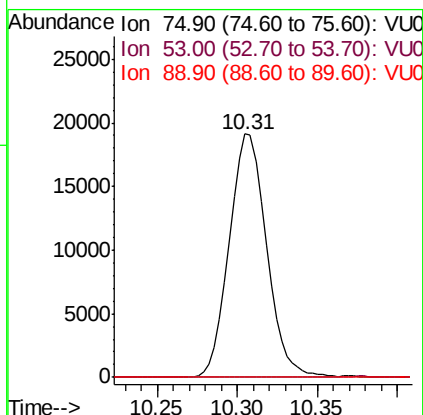
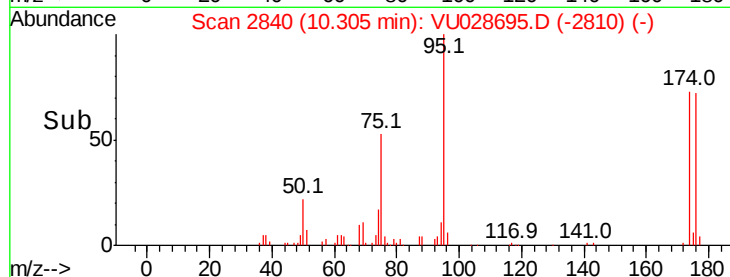
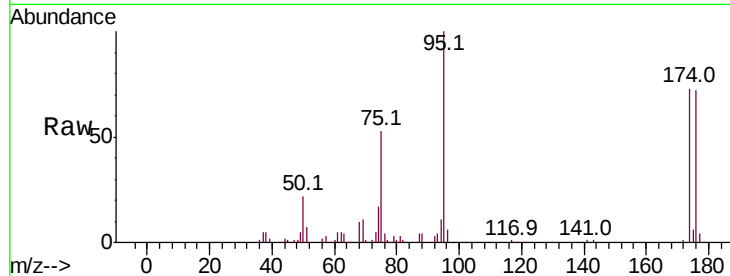




#81
trans-1,4-Dichloro-2-butene
Concen: 60.318 ug/l
RT: 10.31 min Scan# 2840
Delta R.T. -0.20 min
Lab File: VU028695.D
Acq: 14 Dec 2018 20:04

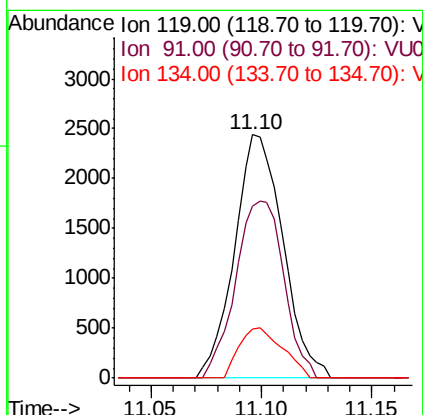
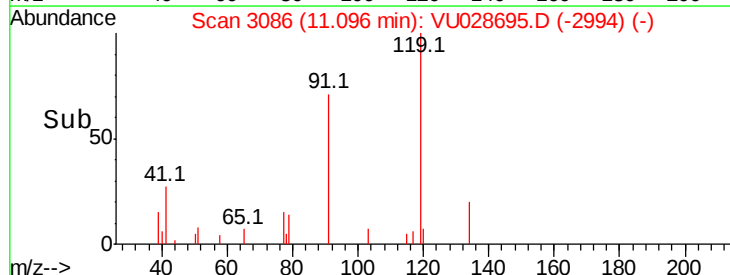
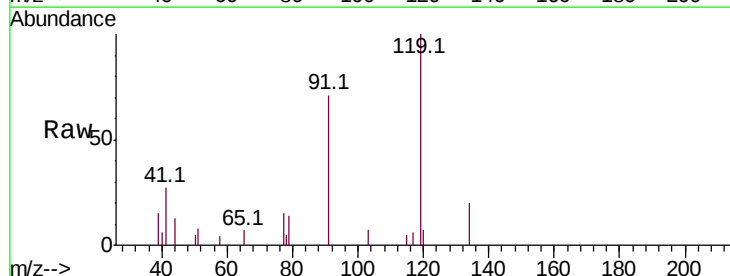
Instrument :
MSVOA_U
ClientSampled :

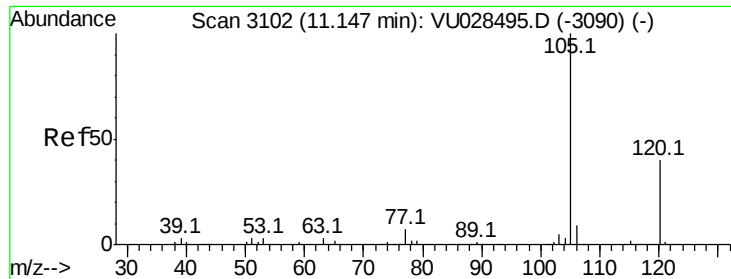
Tot Ion: 75 Resp: 30491
Ion Ratio Lower Upper
75 100
53 0.0 0.0 0.0
89 0.0 0.0 0.0



#83
tert-Butylbenzene
Concen: 1.253 ug/l
RT: 11.10 min Scan# 3086
Delta R.T. -0.00 min
Lab File: VU028695.D
Acq: 14 Dec 2018 20:04

Tgt Ion: 119 Resp: 3726
Ion Ratio Lower Upper
119 100
91 72.4 30.3 91.0
134 18.6 11.2 33.5

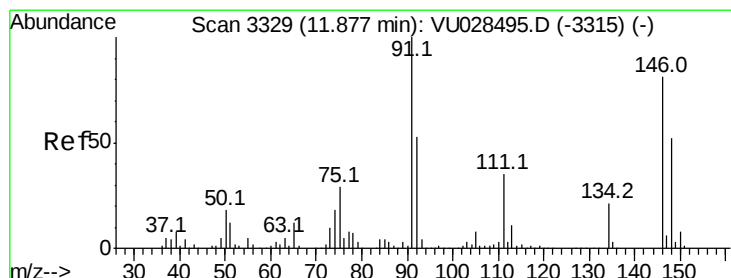
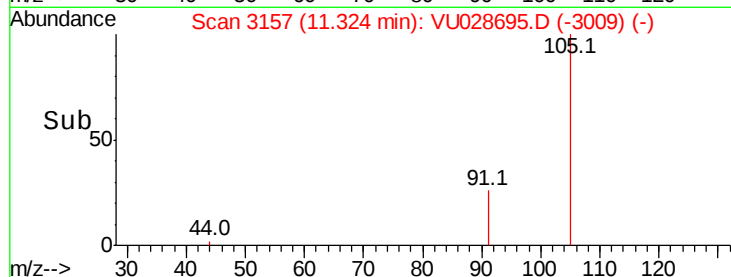
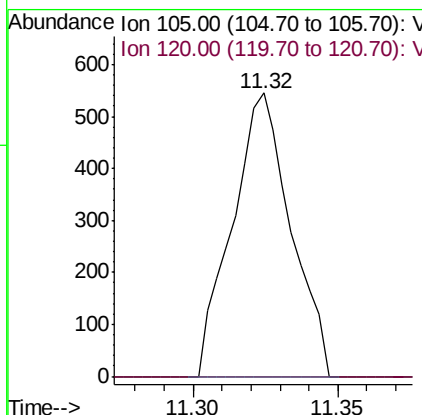
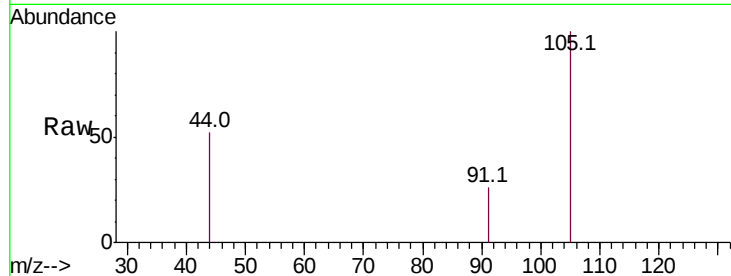




#84
 1,2,4-Trimethylbenzene
 Concen: 0.240 ug/l
 RT: 11.32 min Scan# 3157
 Delta R.T. 0.18 min
 Lab File: VU028695.D
 Acq: 14 Dec 2018 20:04

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:105 Resp: 764
 Ion Ratio Lower Upper
 105 100
 120 0.0 21.8 65.4#



#91
 1,2-Dichlorobenzene
 Concen: 1.216 ug/l
 RT: 11.88 min Scan# 3329
 Delta R.T. 0.00 min
 Lab File: VU028695.D
 Acq: 14 Dec 2018 20:04

Tgt Ion:146 Resp: 2003
 Ion Ratio Lower Upper
 146 100
 111 41.1 21.1 63.4
 148 63.0 31.4 94.2

