

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU121718\
 Data File : VU028752.D
 Acq On : 18 Dec 2018 04:47
 Operator : MD/SY
 Sample : J6411-18DL 5X
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 47 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampled :

Quant Time: Dec 18 07:39:55 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	90764	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	162557	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	144368	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	58707	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.31	65	72316	52.21	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.42%	
35) Dibromofluoromethane	4.88	113	53172	51.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.96%	
50) Toluene-d8	7.57	98	208473	51.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.04%	
62) 4-Bromofluorobenzene	10.30	95	69909	46.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.44%	

Target Compounds

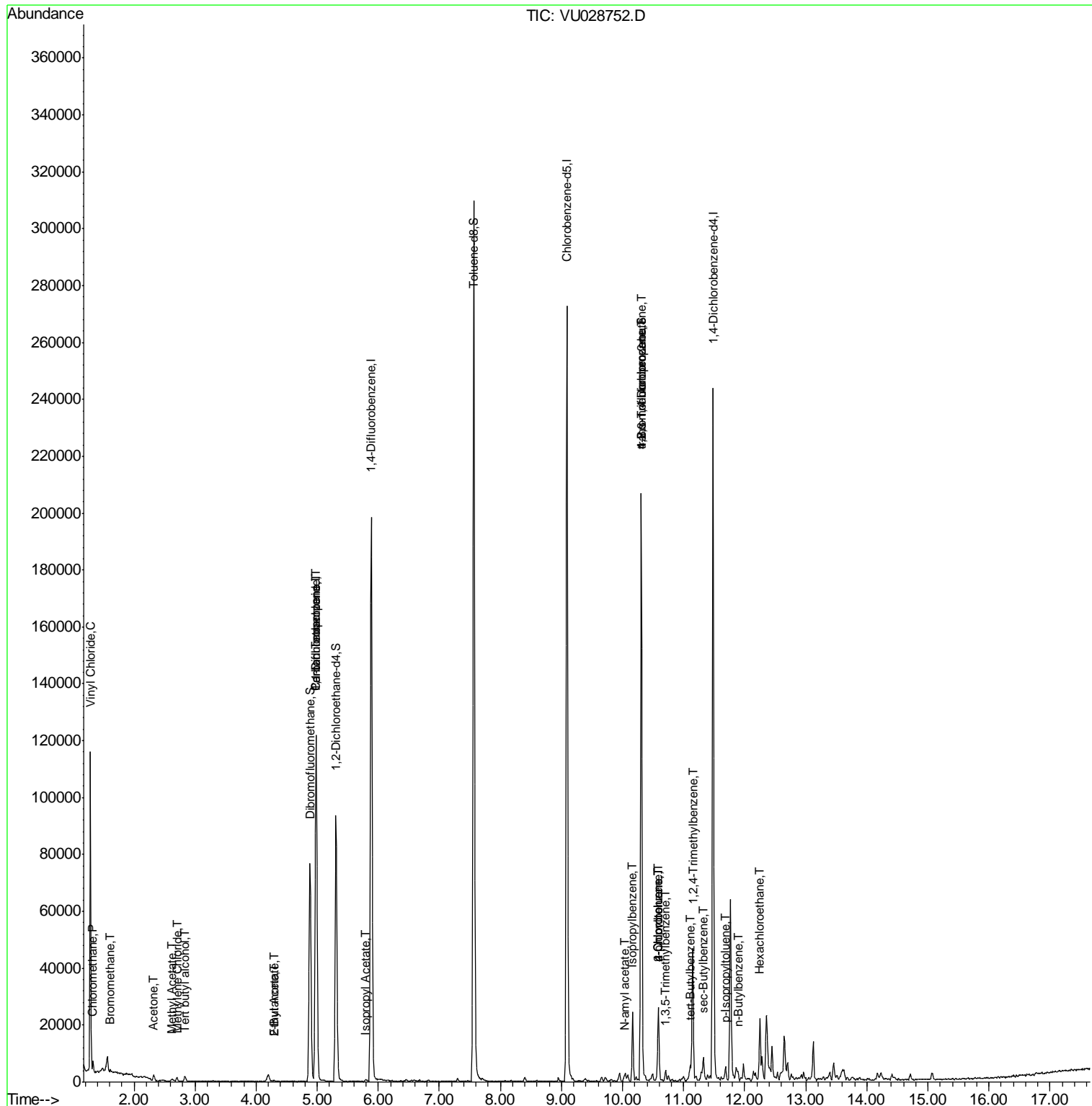
						Qvalue
3) Chloromethane	1.33	50	2653	1.186	ug/l	97
4) Vinyl Chloride	1.29	62	876	0.543	ug/l	98
5) Bromomethane	1.62	94	185	0.285	ug/l	81
11) Tert butyl alcohol	2.83	59	1494	4.841	ug/l #	73
16) Acetone	2.32	43	2240	2.478	ug/l #	84
18) Methyl Acetate	2.62	43	1200	0.512	ug/l #	60
20) Methylene Chloride	2.71	84	625	0.469	ug/l #	85
25) 2-Butanone	4.29	43	714	0.578	ug/l #	52
31) Cyclohexane	4.98	56	1956	Below Cal	#	1
36) 1,1-Dichloropropene	4.98	75	8001	4.498	ug/l #	50
37) Ethyl Acetate	4.29	43	714	0.311	ug/l #	70
38) Carbon Tetrachloride	4.98	117	8832	6.160	ug/l #	15
43) Isopropyl Acetate	5.79	43	1004	0.276	ug/l #	62
73) Isopropylbenzene	10.17	105	15357	3.409	ug/l	97
74) N-amyl acetate	10.03	43	654	0.252	ug/l #	57
76) 1,2,3-Trichloropropane	10.30	75	36020	24.028	ug/l #	36
78) n-propylbenzene	10.58	91	20938	3.741	ug/l	98
79) 2-Chlorotoluene	10.58	91	20938	6.494	ug/l #	43
80) 1,3,5-Trimethylbenzene	10.70	105	2355	0.632	ug/l	71
81) trans-1,4-Dichloro-2-buten	10.30	75	36020	58.982	ug/l #	100
82) 4-Chlorotoluene	10.58	91	20938	5.480	ug/l #	47
83) tert-Butylbenzene	11.10	119	1462	0.407	ug/l	86
84) 1,2,4-Trimethylbenzene	11.15	105	24493	6.373	ug/l	97
85) sec-Butylbenzene	11.32	105	5198	1.126	ug/l	96
86) p-Isopropyltoluene	11.69	119	2677	0.683	ug/l	90
89) n-Butylbenzene	11.89	91	2298	0.579	ug/l #	75
90) Hexachloroethane	12.25	117	1085	1.830	ug/l #	11

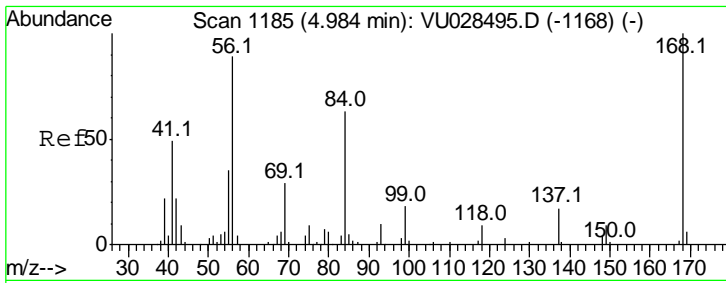
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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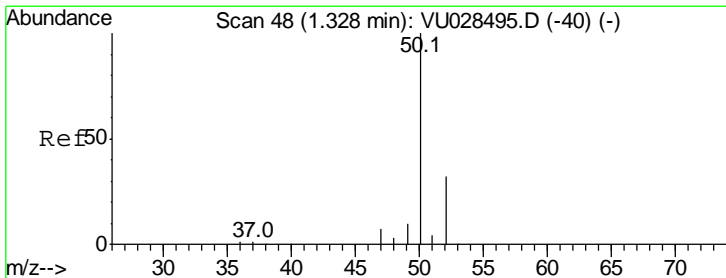
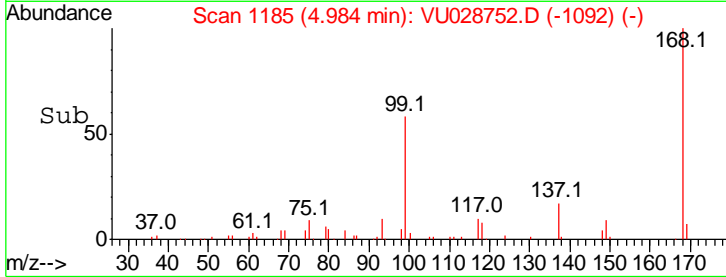
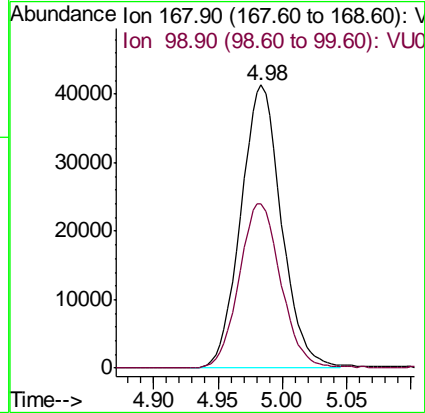
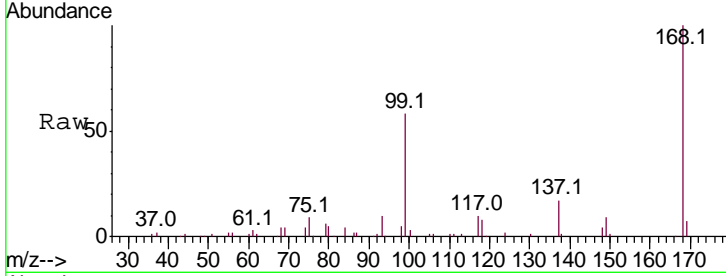




#1
 Pentafluorobenzene
 Concen: 50.000 ug/l
 RT: 4.98 min Scan# 1185
 Delta R.T. -0.00 min
 Lab File: VU028752.D
 Acq: 18 Dec 2018 04:47

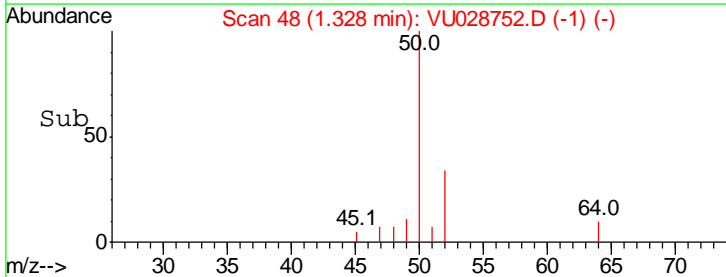
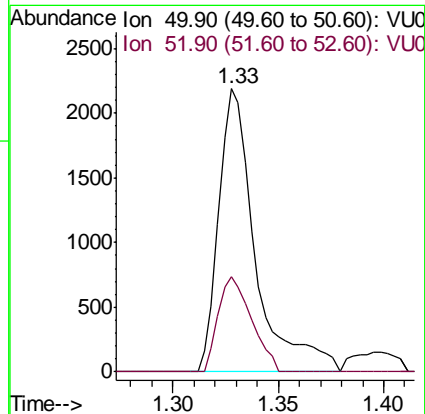
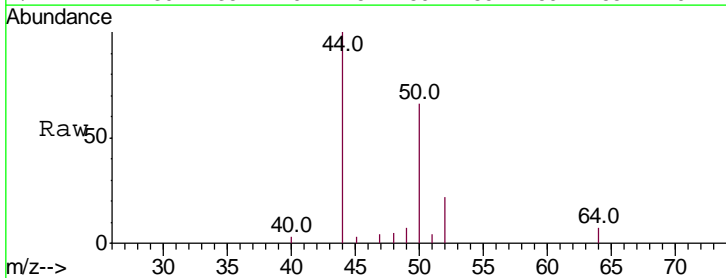
Instrument :
 MSVOA_U
 ClientSampled :

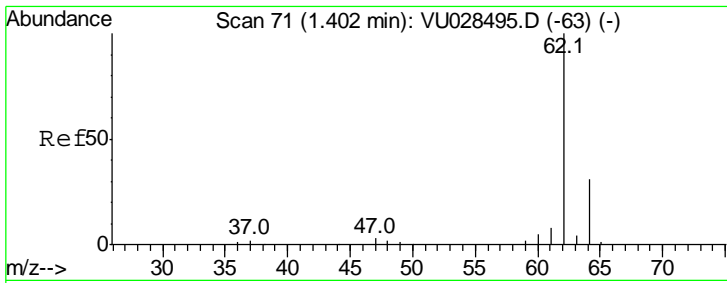
Tgt Ion: 168 Resp: 90764
 Ion Ratio Lower Upper
 168 100
 99 57.9 46.6 69.8



#3
 Chloromethane
 Concen: 1.186 ug/l
 RT: 1.33 min Scan# 48
 Delta R.T. -0.00 min
 Lab File: VU028752.D
 Acq: 18 Dec 2018 04:47

Tgt Ion: 50 Resp: 2653
 Ion Ratio Lower Upper
 50 100
 52 33.8 25.5 38.3

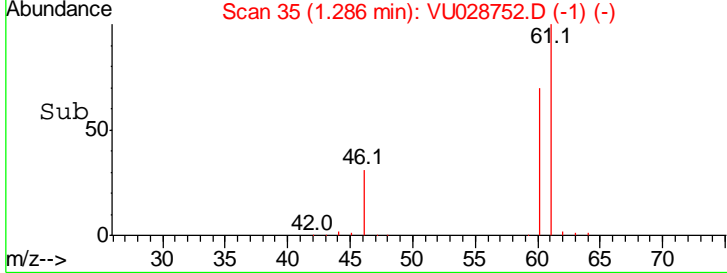
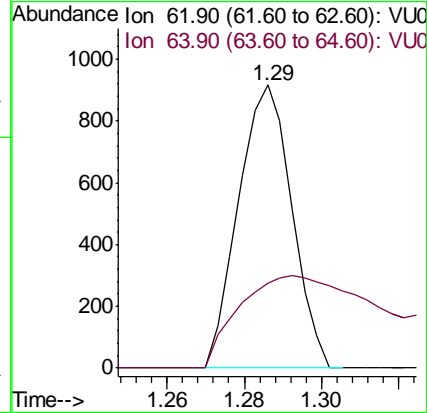
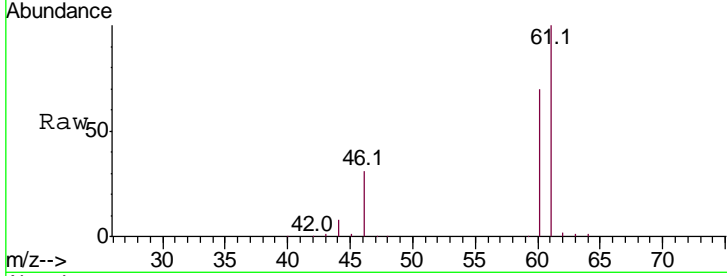




#4
 Vinyl Chloride
 Concen: 0.543 ug/l
 RT: 1.29 min Scan# 35
 Delta R.T. -0.12 min
 Lab File: VU028752.D
 Acq: 18 Dec 2018 04:47

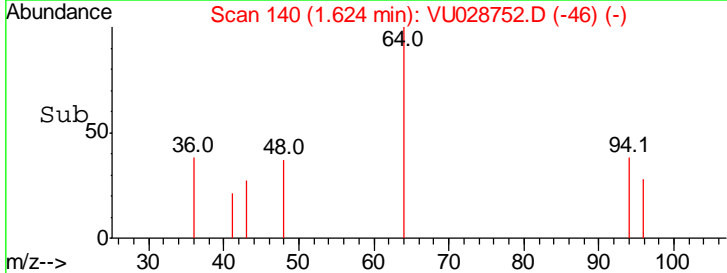
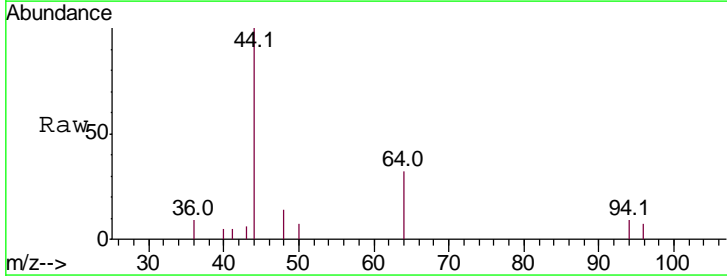
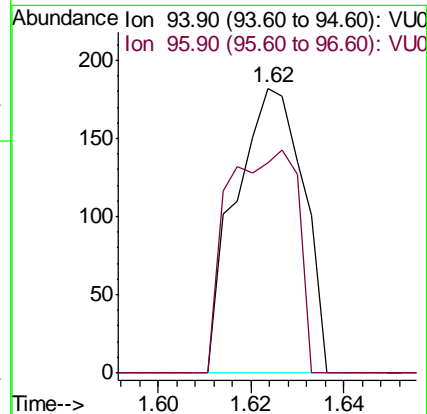
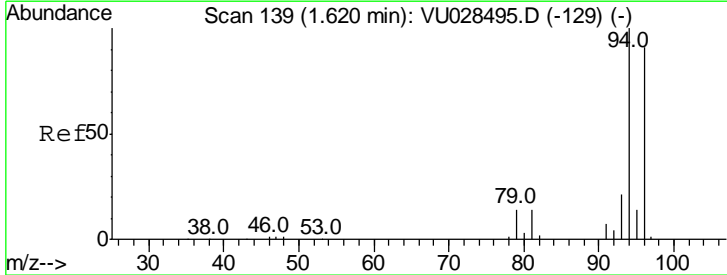
Instrument :
 MSVOA_U
 ClientSampled :

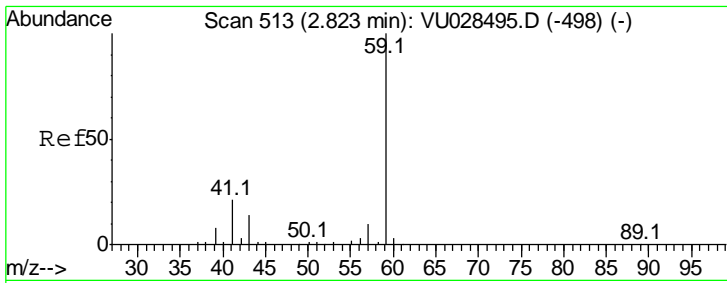
Tgt Ion	Resp	Lower	Upper
62	100		
64	30.1	25.1	37.7



#5
 Bromomethane
 Concen: 0.285 ug/l
 RT: 1.62 min Scan# 140
 Delta R.T. 0.00 min
 Lab File: VU028752.D
 Acq: 18 Dec 2018 04:47

Tgt Ion	Resp	Lower	Upper
94	100		
96	73.6	73.2	109.8

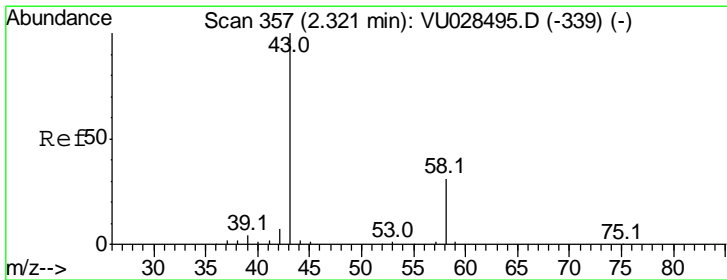
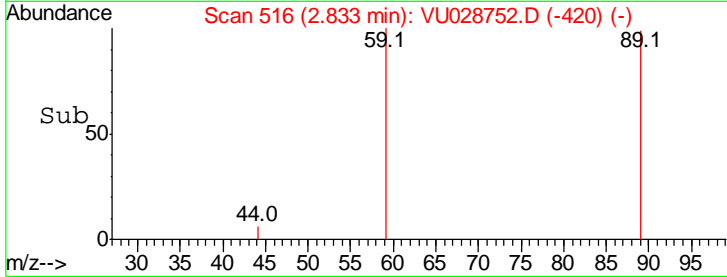
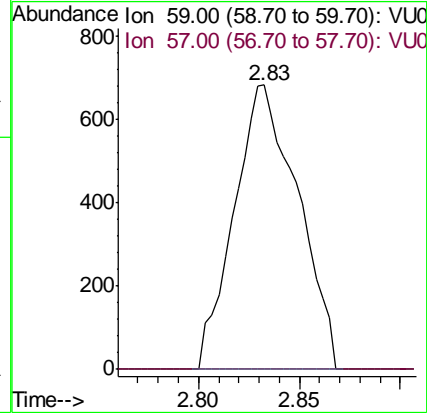
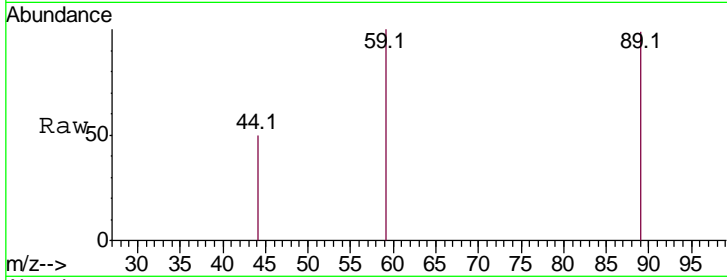




#11
 Tert butyl alcohol
 Concen: 4.841 ug/l
 RT: 2.83 min Scan# 516
 Delta R.T. 0.01 min
 Lab File: VU028752.D
 Acq: 18 Dec 2018 04:47

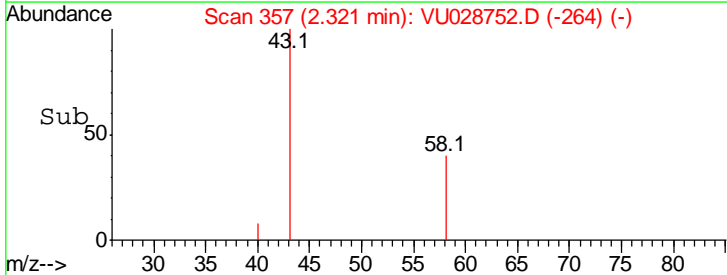
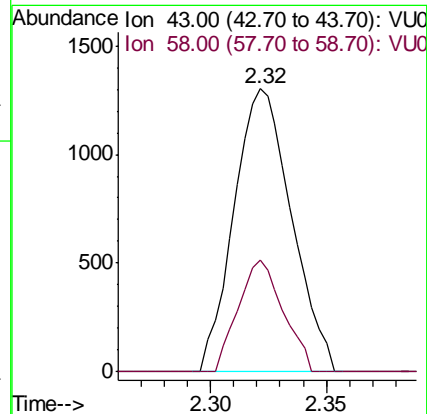
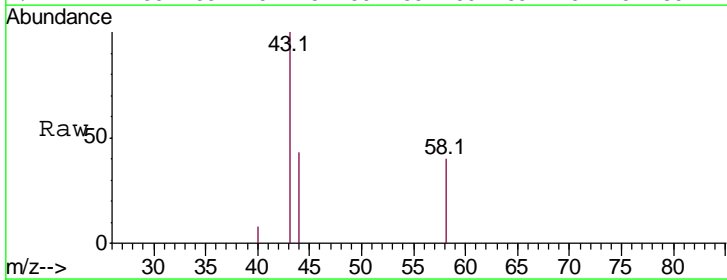
Instrument : MSVOA_U
 ClientSampled :

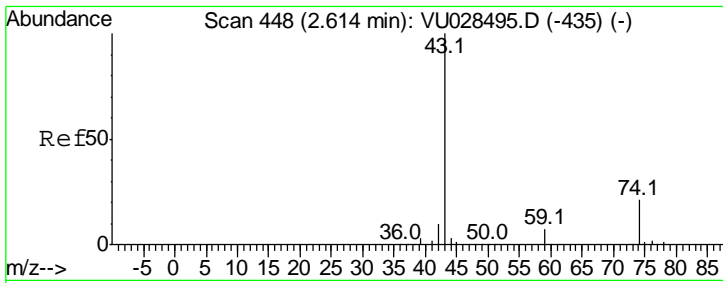
Tgt Ion	Resp	Lower	Upper
59	100		
57	0.0	8.0	12.0#



#16
 Acetone
 Concen: 2.478 ug/l
 RT: 2.32 min Scan# 357
 Delta R.T. -0.00 min
 Lab File: VU028752.D
 Acq: 18 Dec 2018 04:47

Tgt Ion	Resp	Lower	Upper
43	100		
58	39.6	24.6	37.0#

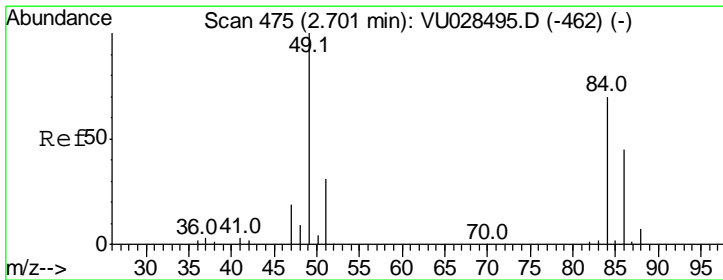
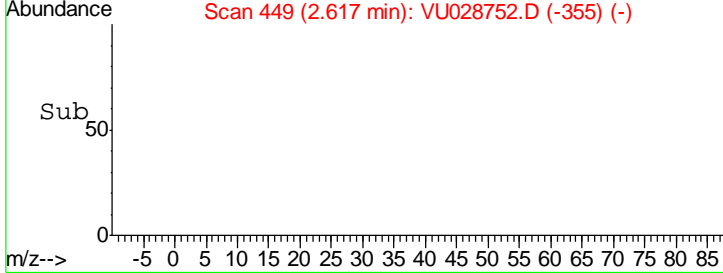
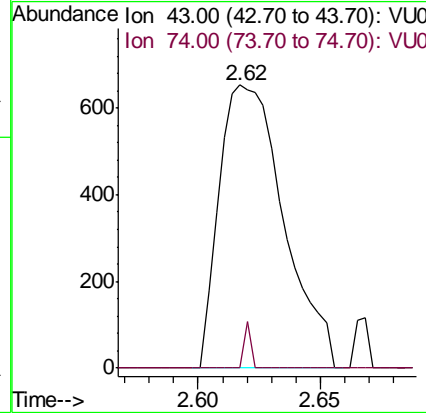
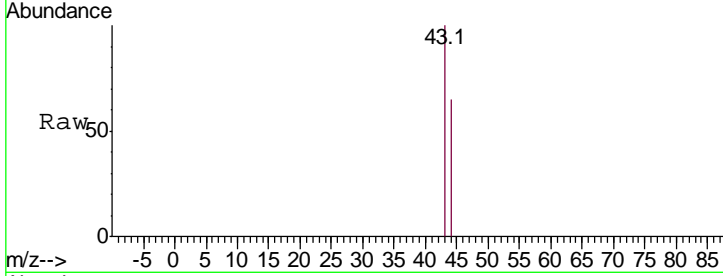




#18
 Methyl Acetate
 Concen: 0.512 ug/l
 RT: 2.62 min Scan# 449
 Delta R.T. 0.00 min
 Lab File: VU028752.D
 Acq: 18 Dec 2018 04:47

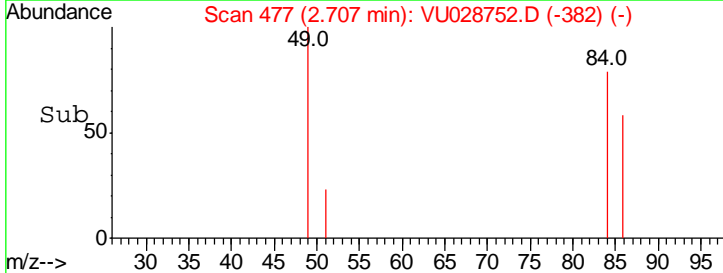
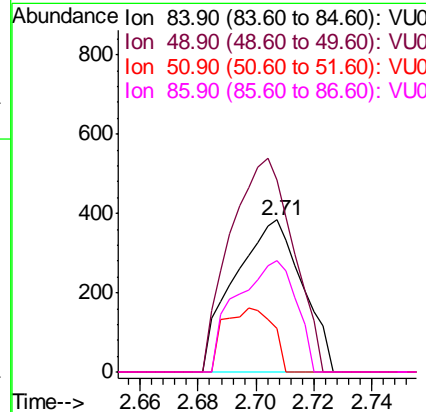
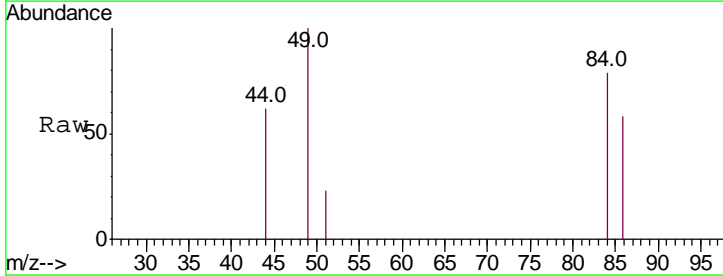
Instrument :
 MSVOA_U
 ClientSampled :

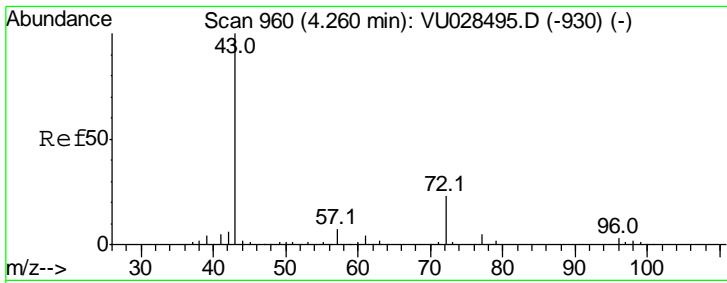
Tgt Ion	Ratio	Lower	Upper
43	100		
74	1.8	16.4	24.6#



#20
 Methylene Chloride
 Concen: 0.469 ug/l
 RT: 2.71 min Scan# 477
 Delta R.T. 0.01 min
 Lab File: VU028752.D
 Acq: 18 Dec 2018 04:47

Tgt Ion	Ratio	Lower	Upper
84	100		
49	126.4	114.0	171.0
51	28.7	35.1	52.7#
86	73.6	51.0	76.6

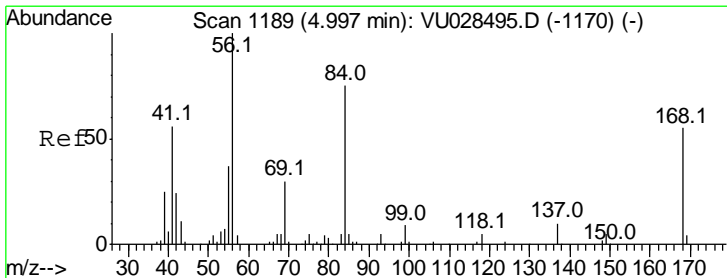
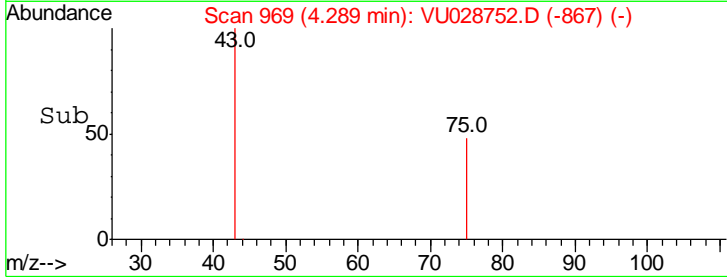
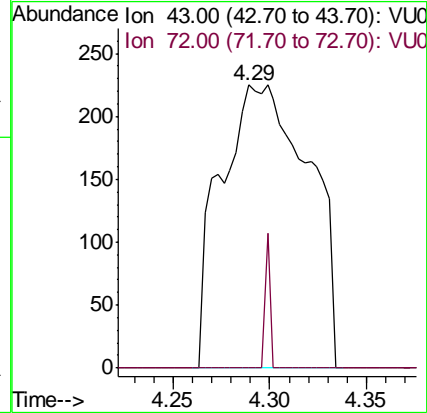
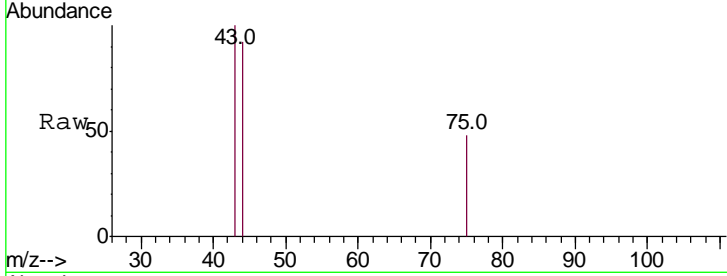




#25
 2-Butanone
 Concen: 0.578 ug/l
 RT: 4.29 min Scan# 969
 Delta R.T. 0.03 min
 Lab File: VU028752.D
 Acq: 18 Dec 2018 04:47

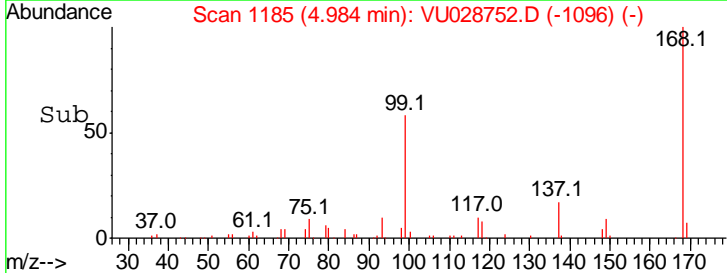
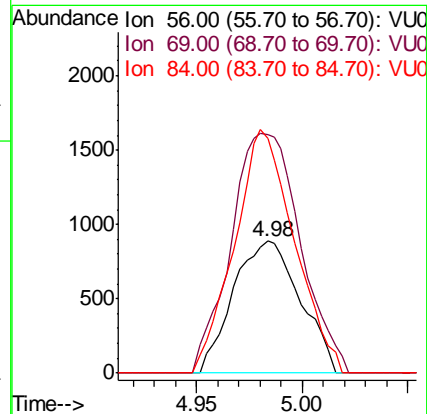
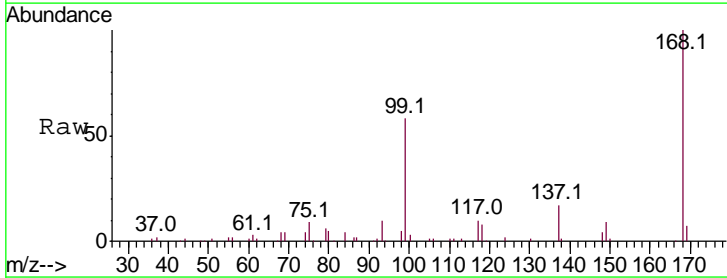
Instrument :
 MSVOA_U
 ClientSampled :

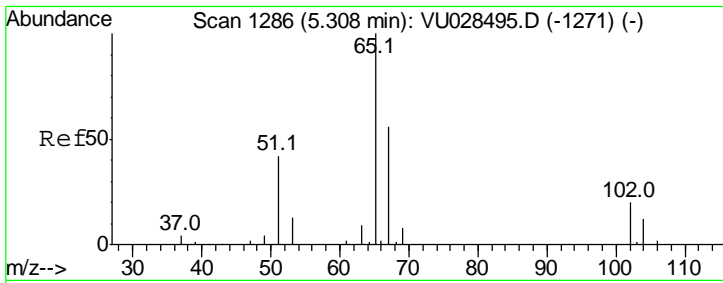
Tgt Ion	Ratio	Lower	Upper
43	100		
72	0.0	18.6	28.0#



#31
 Cyclohexane
 Concen: Below Cal
 RT: 4.98 min Scan# 1185
 Delta R.T. -0.01 min
 Lab File: VU028752.D
 Acq: 18 Dec 2018 04:47

Tgt Ion	Ratio	Lower	Upper
56	100		
69	180.5	24.0	36.0#
84	177.3	59.7	89.5#

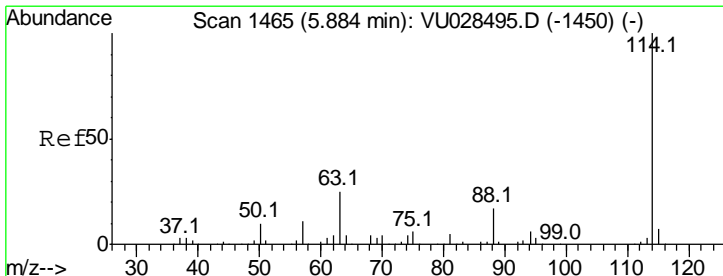
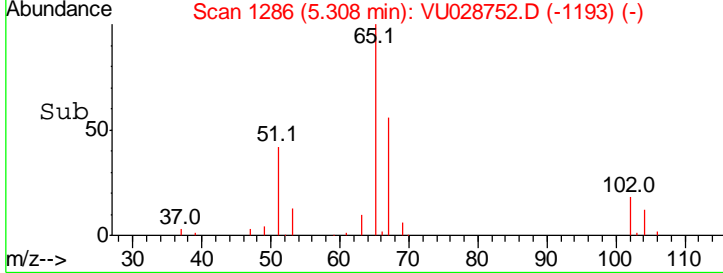
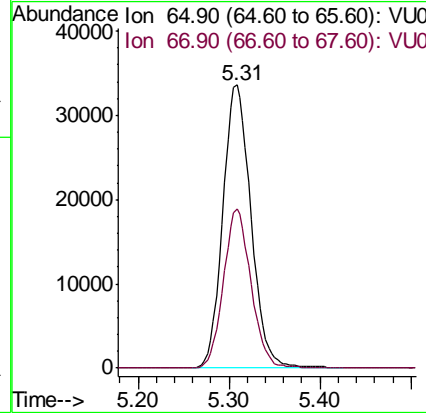
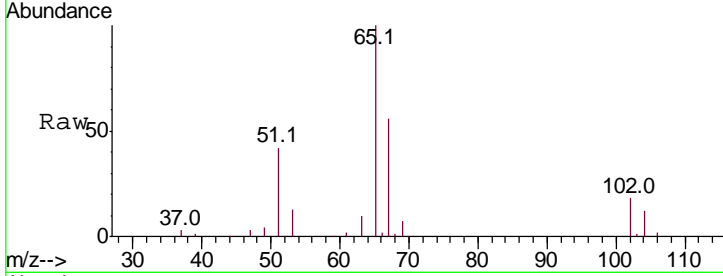




#33
 1,2-Dichloroethane-d4
 Concen: 52.209 ug/l
 RT: 5.31 min Scan# 1286
 Delta R.T. -0.00 min
 Lab File: VU028752.D
 Acq: 18 Dec 2018 04:47

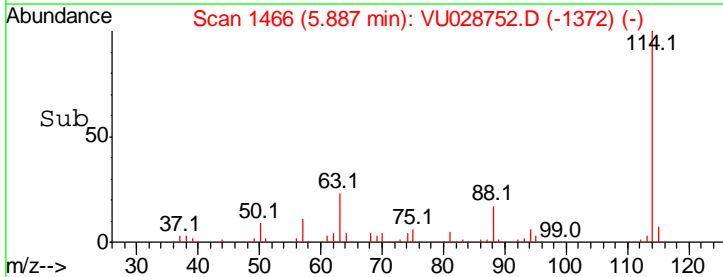
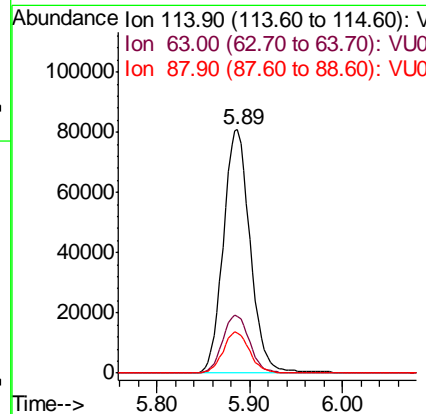
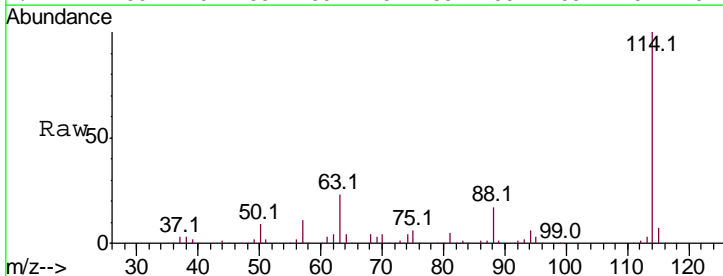
Instrument :
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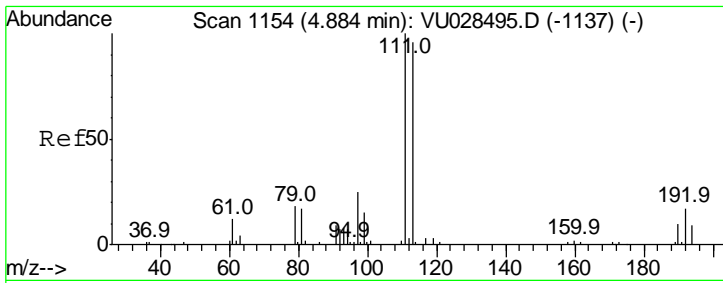
Tgt Ion	Resp	Lower	Upper
65	100		
67	54.9	0.0	110.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1466
 Delta R.T. 0.00 min
 Lab File: VU028752.D
 Acq: 18 Dec 2018 04:47

Tgt Ion	Resp	Lower	Upper
114	100		
63	23.5	0.0	49.2
88	16.6	0.0	33.4

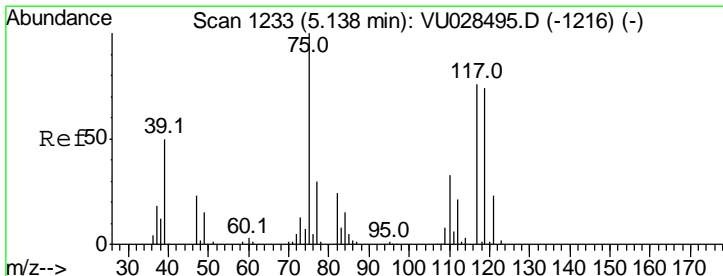
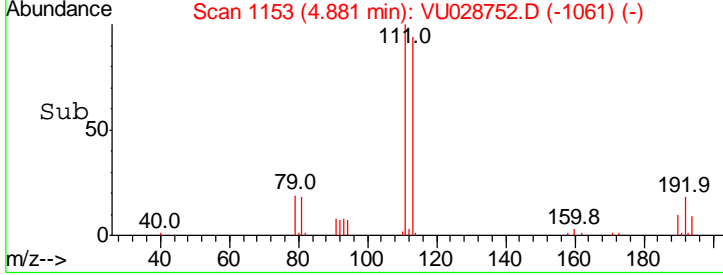
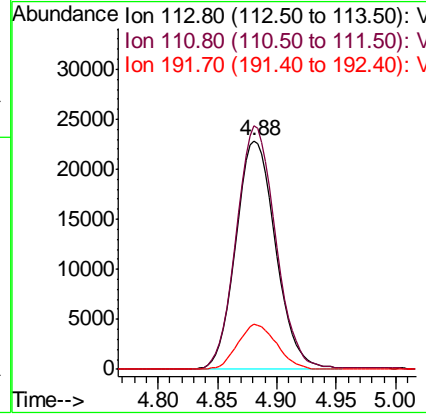
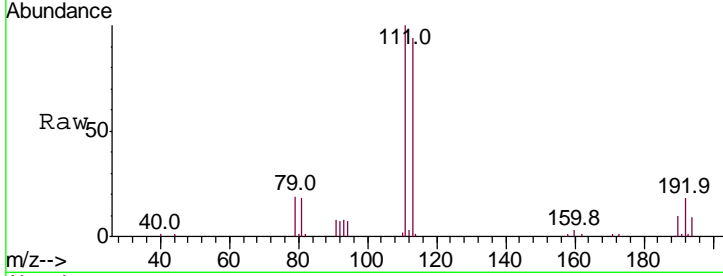




#35
 Dibromofluoromethane
 Concen: 51.977 ug/l
 RT: 4.88 min Scan# 1153
 Delta R.T. -0.00 min
 Lab File: VU028752.D
 Acq: 18 Dec 2018 04:47

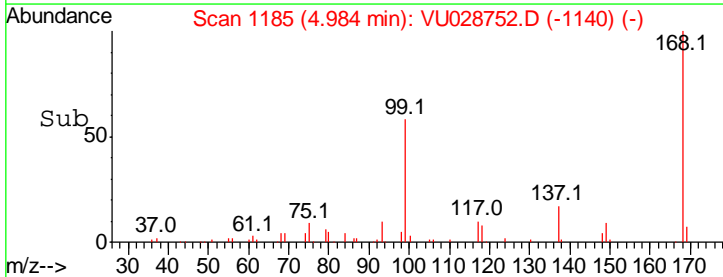
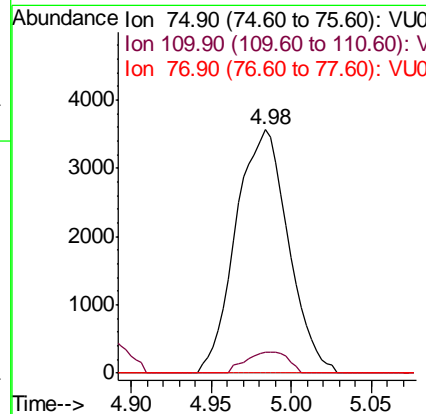
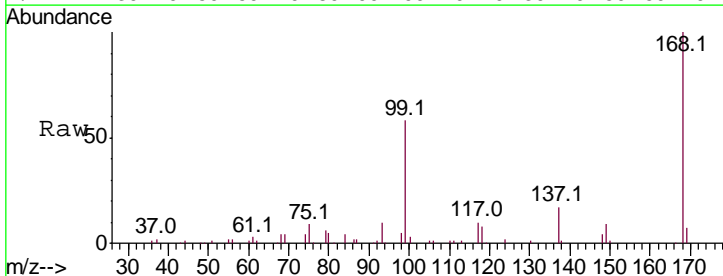
Instrument : MSVOA_U
 ClientSampled :

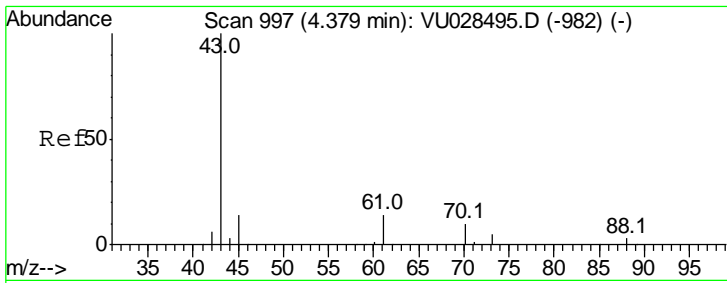
Tgt Ion	Resp	Lower	Upper
113	53172		
113	100		
111	105.2	83.4	125.0
192	19.0	14.8	22.2



#36
 1,1-Dichloropropene
 Concen: 4.498 ug/l
 RT: 4.98 min Scan# 1185
 Delta R.T. -0.15 min
 Lab File: VU028752.D
 Acq: 18 Dec 2018 04:47

Tgt Ion	Resp	Lower	Upper
75	8001		
75	100		
110	6.9	16.1	48.2#
77	0.0	24.5	36.7#

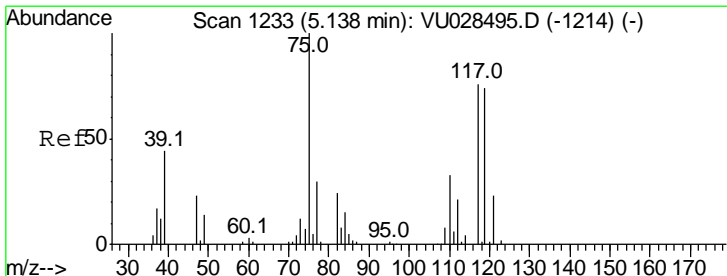
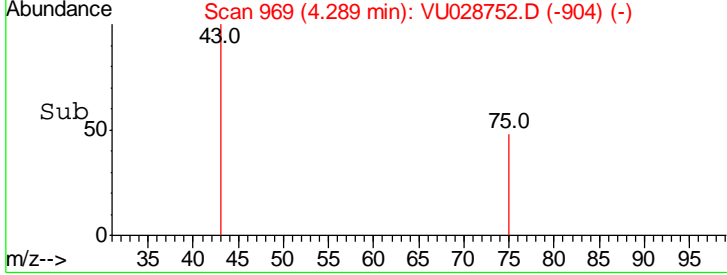
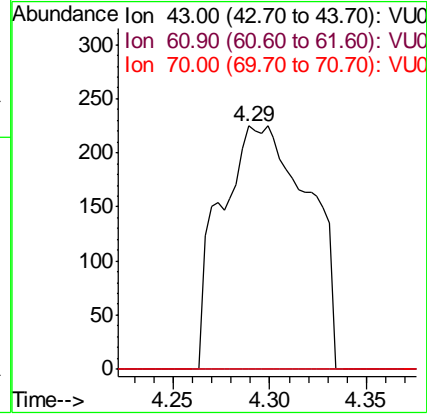
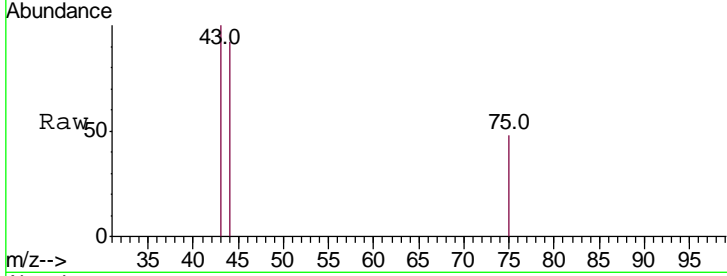




#37
 Ethyl Acetate
 Concen: 0.311 ug/l
 RT: 4.29 min Scan# 969
 Delta R.T. -0.09 min
 Lab File: VU028752.D
 Acq: 18 Dec 2018 04:47

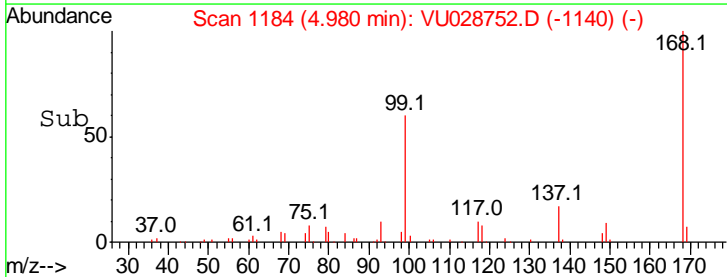
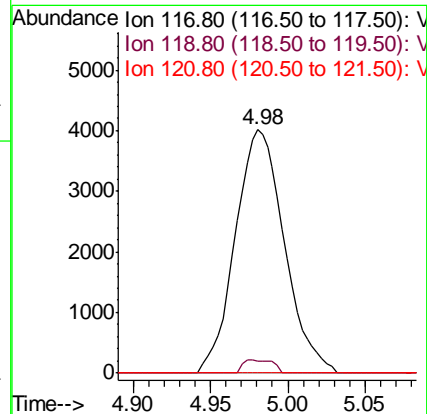
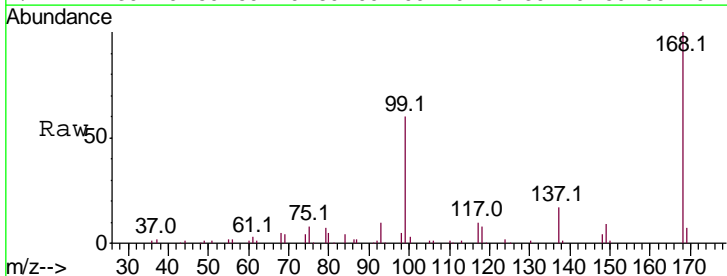
Instrument :
 MSVOA_U
 ClientSampled :

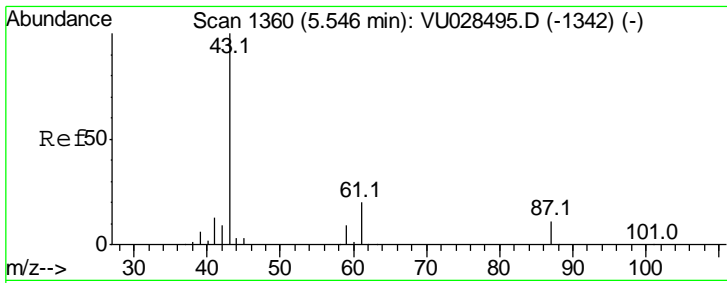
Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	11.0	16.4#
70	0.0	7.4	11.0#



#38
 Carbon Tetrachloride
 Concen: 6.160 ug/l
 RT: 4.98 min Scan# 1184
 Delta R.T. -0.16 min
 Lab File: VU028752.D
 Acq: 18 Dec 2018 04:47

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.9	77.6	116.4#
121	0.0	24.6	36.8#

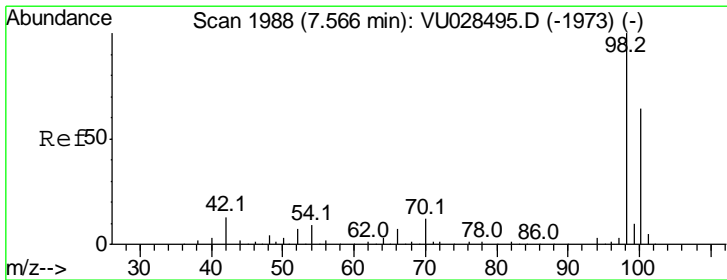
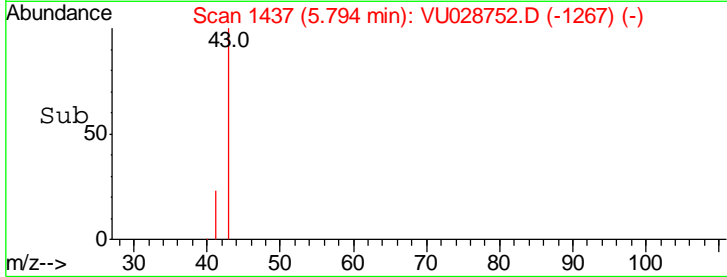
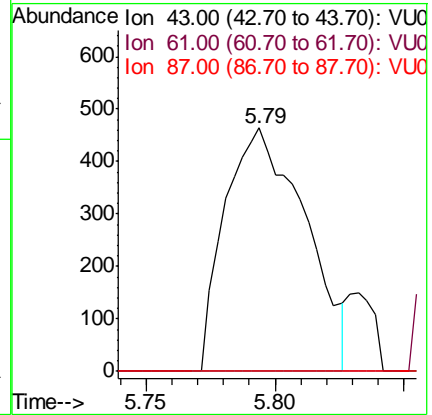
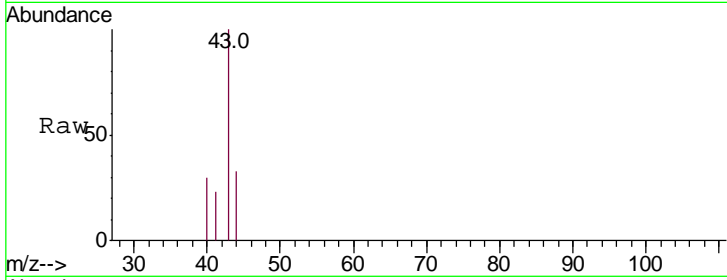




#43
 Isopropyl Acetate
 Concen: 0.276 ug/l
 RT: 5.79 min Scan# 1437
 Delta R.T. 0.25 min
 Lab File: VU028752.D
 Acq: 18 Dec 2018 04:47

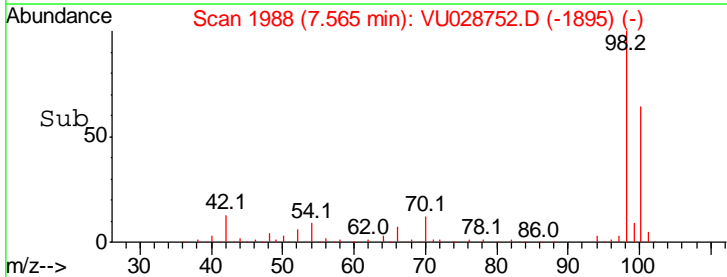
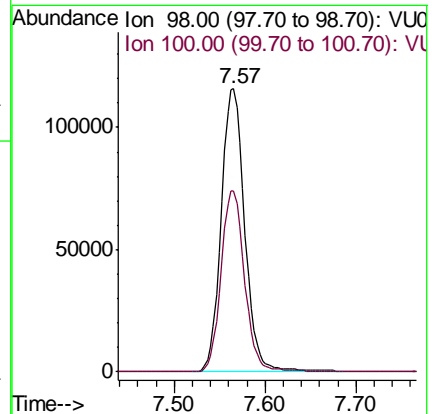
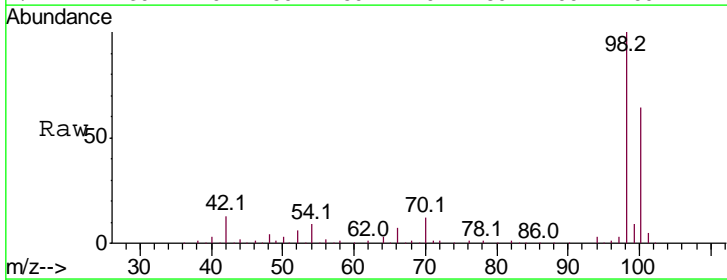
Instrument :
 MSVOA_U
 ClientSampled :

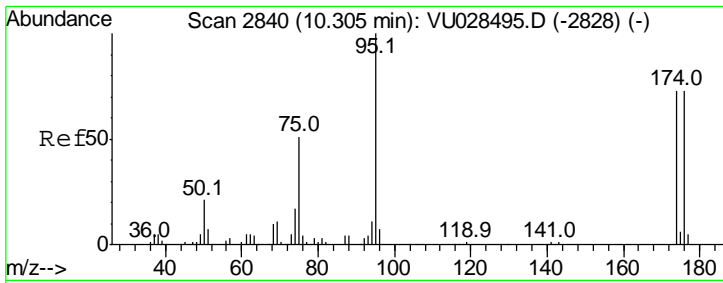
Tgt Ion	Resp	Lower	Upper
43	1004		
61	0.0	15.5	23.3#
87	0.0	8.7	13.1#



#50
 Toluene-d8
 Concen: 51.516 ug/l
 RT: 7.57 min Scan# 1988
 Delta R.T. -0.00 min
 Lab File: VU028752.D
 Acq: 18 Dec 2018 04:47

Tgt Ion	Resp	Lower	Upper
98	208473		
100	64.4	51.0	76.6

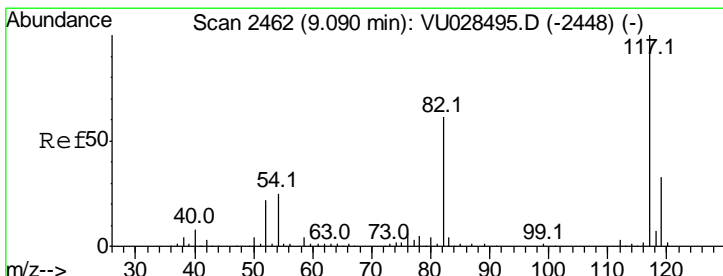
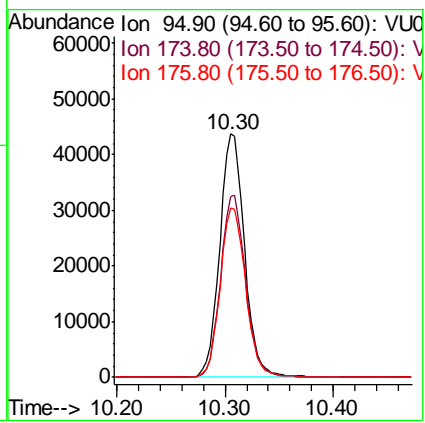
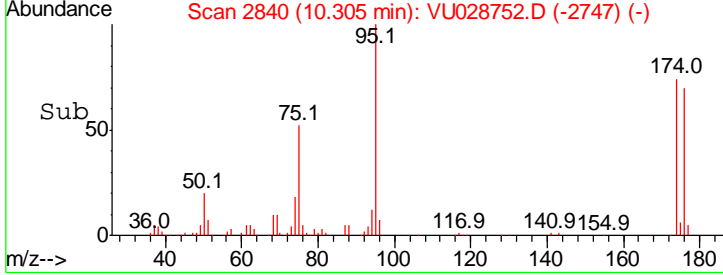
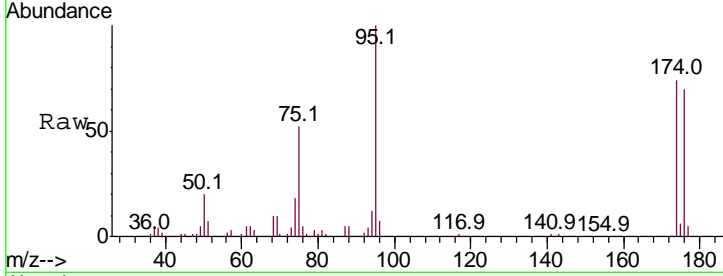




#62
 4-Bromofluorobenzene
 Concen: 46.220 ug/l
 RT: 10.30 min Scan# 2840
 Delta R.T. -0.00 min
 Lab File: VU028752.D
 Acq: 18 Dec 2018 04:47

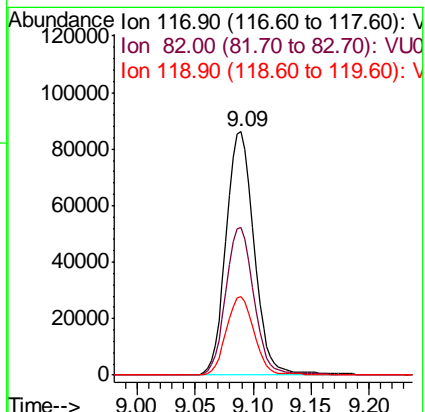
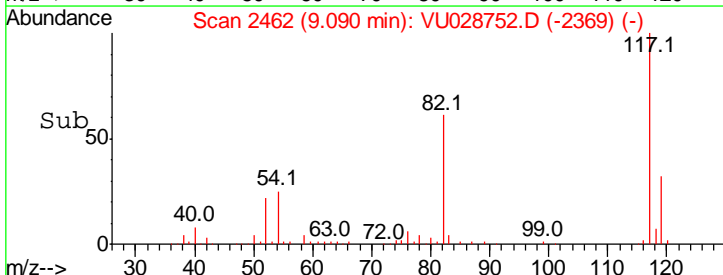
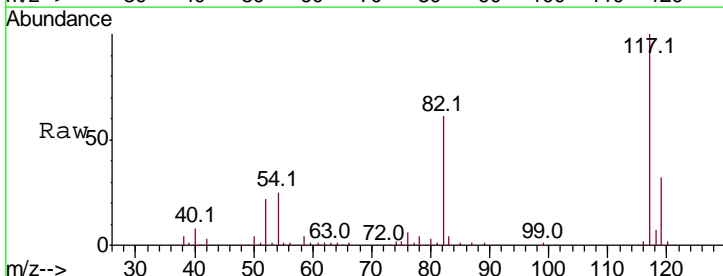
Instrument : MSVOA_U
 ClientSampled :

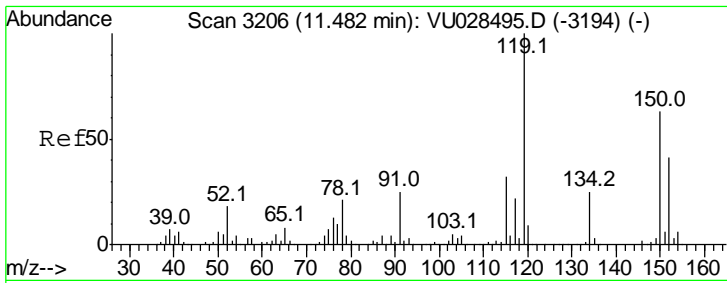
Tgt Ion	Resp	Lower	Upper
95	100		
174	75.3	0.0	150.4
176	71.4	0.0	145.2



#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 9.09 min Scan# 2462
 Delta R.T. -0.00 min
 Lab File: VU028752.D
 Acq: 18 Dec 2018 04:47

Tgt Ion	Resp	Lower	Upper
117	100		
82	60.6	48.9	73.3
119	32.5	26.2	39.4

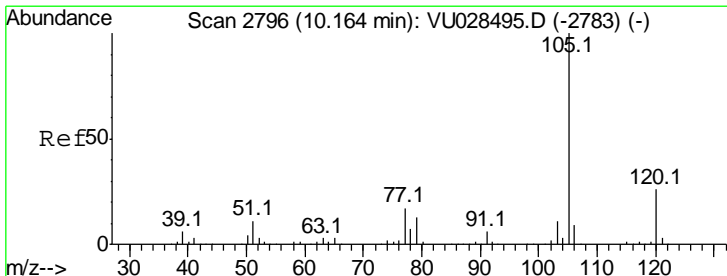
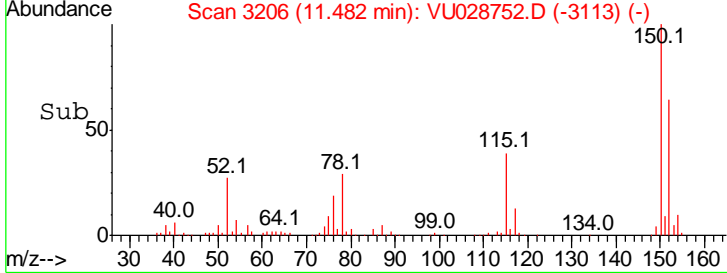
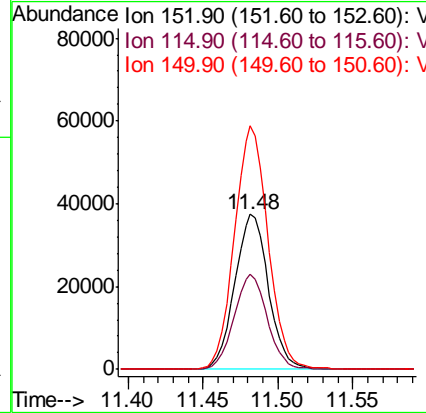
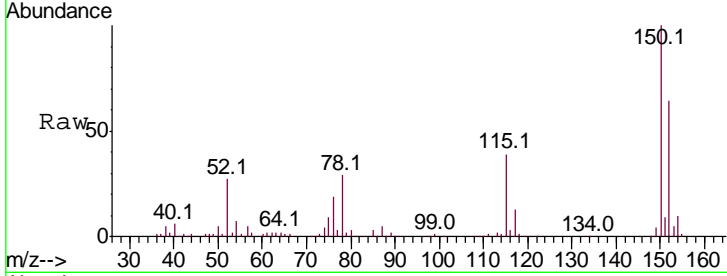




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 11.48 min Scan# 3206
 Delta R.T. -0.00 min
 Lab File: VU028752.D
 Acq: 18 Dec 2018 04:47

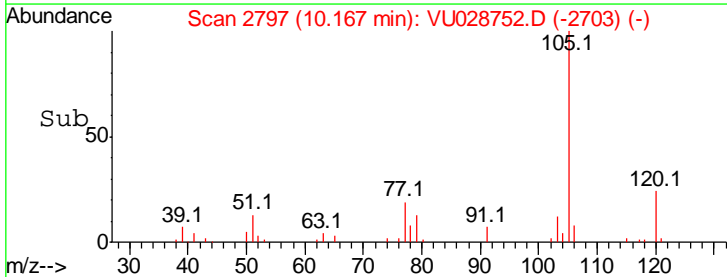
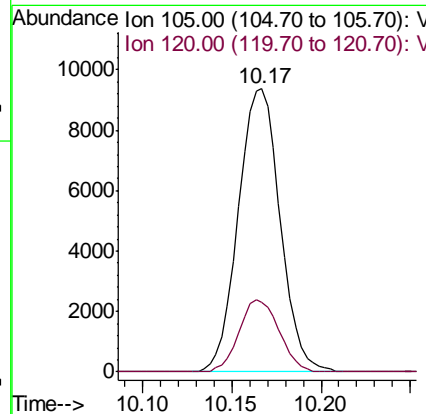
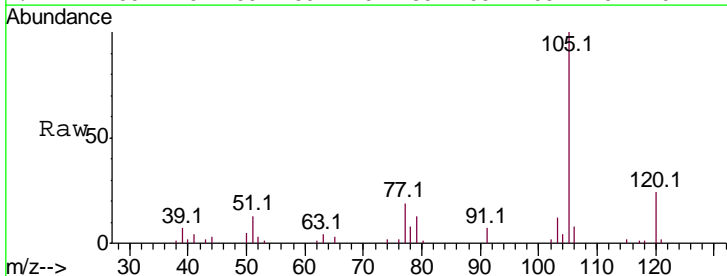
Instrument :
 MSVOA_U
 ClientSampled :

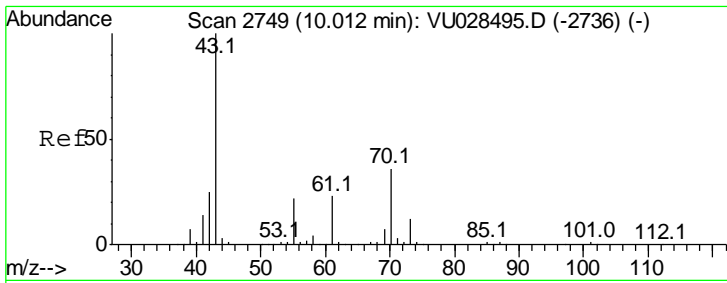
Tgt Ion	Resp	Lower	Upper
152	100		
115	60.2	42.7	128.1
150	156.5	0.0	346.0



#73
 Isopropylbenzene
 Concen: 3.409 ug/l
 RT: 10.17 min Scan# 2797
 Delta R.T. 0.00 min
 Lab File: VU028752.D
 Acq: 18 Dec 2018 04:47

Tgt Ion	Resp	Lower	Upper
105	100		
120	24.3	12.9	38.6

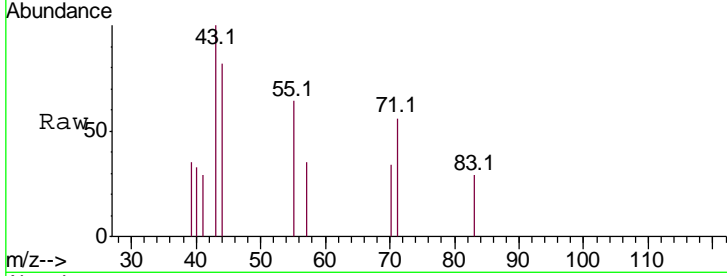




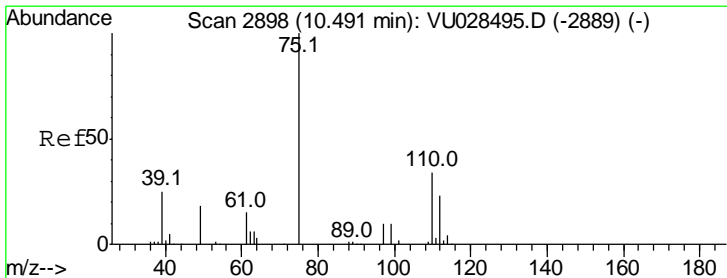
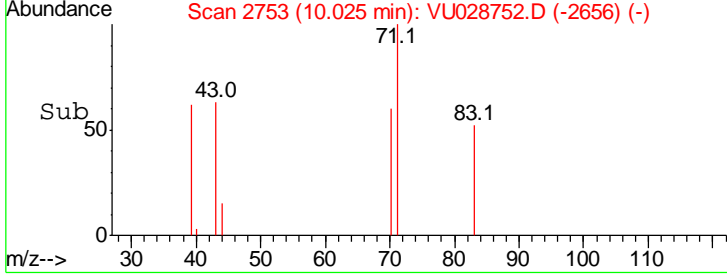
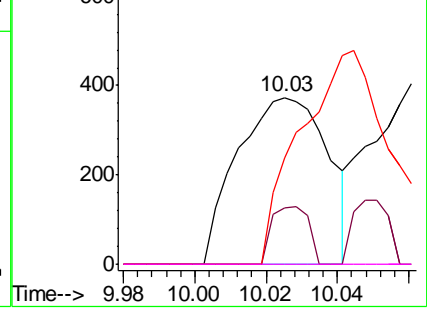
#74
 N-amyl acetate
 Concen: 0.252 ug/l
 RT: 10.03 min Scan# 2753
 Delta R.T. 0.01 min
 Lab File: VU028752.D
 Acq: 18 Dec 2018 04:47

Instrument : MSVOA_U
 ClientSampled :

Tgt Ion	Resp	Lower	Upper
43	100		
70	13.9	29.3	43.9#
55	0.0	18.0	27.0#
61	0.0	18.3	27.5#

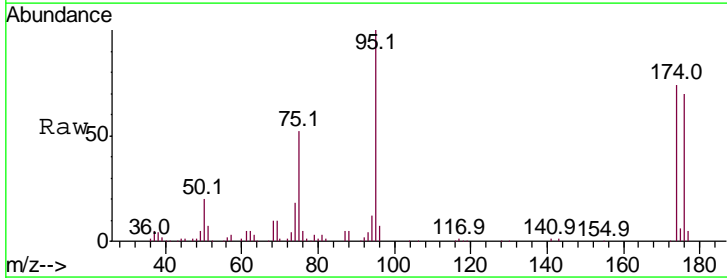


Abundance Ion 43.00 (42.70 to 43.70): VU0
 Ion 70.00 (69.70 to 70.70): VU0
 Ion 55.00 (54.70 to 55.70): VU0
 Ion 61.00 (60.70 to 61.70): VU0

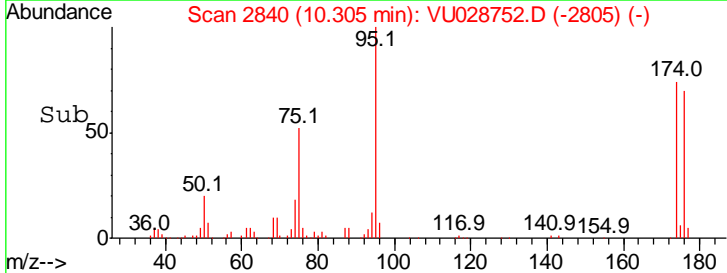
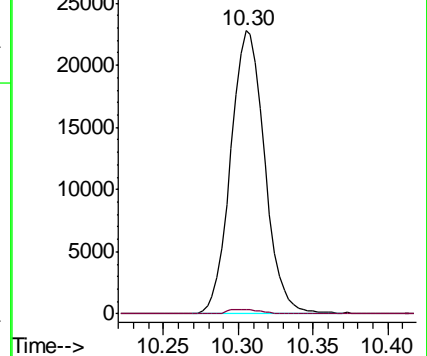


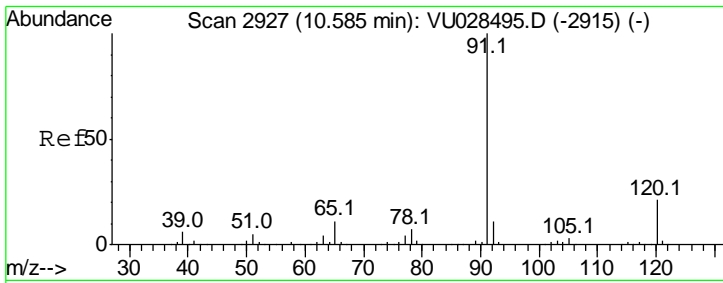
#76
 1,2,3-Trichloropropane
 Concen: 24.028 ug/l
 RT: 10.30 min Scan# 2840
 Delta R.T. -0.19 min
 Lab File: VU028752.D
 Acq: 18 Dec 2018 04:47

Tgt Ion	Resp	Lower	Upper
75	100		
77	1.4	20.8	62.4#



Abundance Ion 74.90 (74.60 to 75.60): VU0
 Ion 77.00 (76.70 to 77.70): VU0

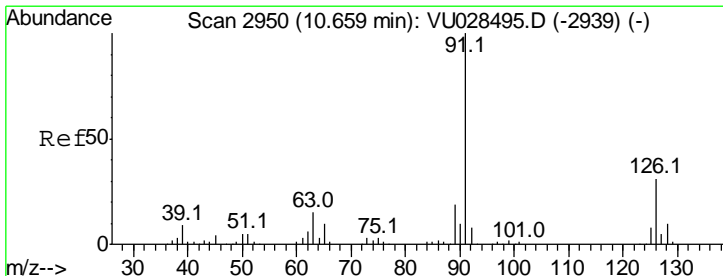
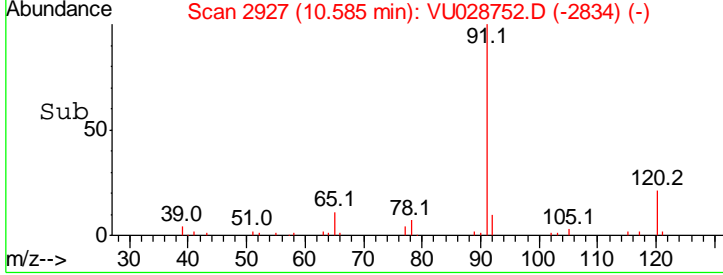
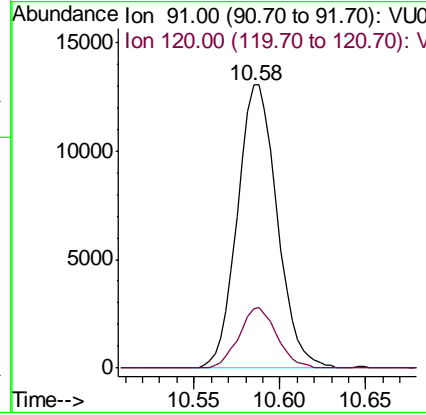
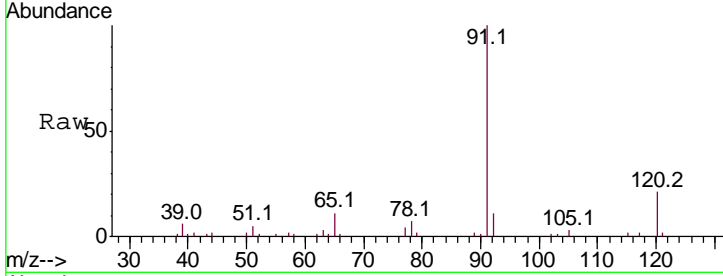




#78
 n-propylbenzene
 Concen: 3.741 ug/l
 RT: 10.58 min Scan# 2927
 Delta R.T. -0.00 min
 Lab File: VU028752.D
 Acq: 18 Dec 2018 04:47

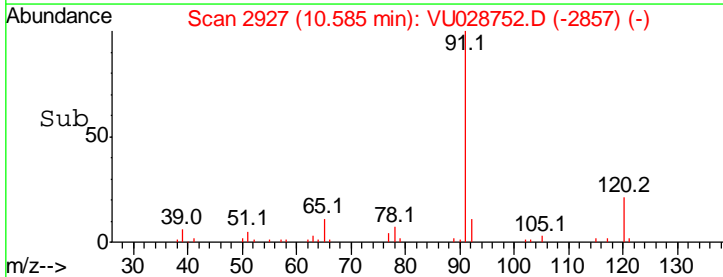
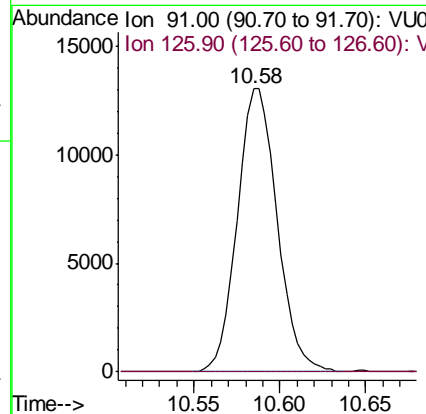
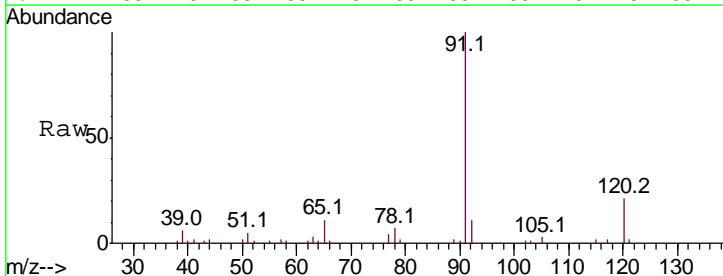
Instrument : MSVOA_U
 ClientSampled :

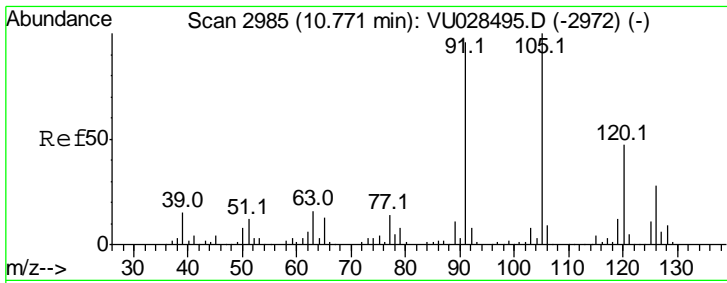
Tgt Ion	Resp	Lower	Upper
91	100		
120	20.1	10.6	31.8



#79
 2-Chlorotoluene
 Concen: 6.494 ug/l
 RT: 10.58 min Scan# 2927
 Delta R.T. -0.07 min
 Lab File: VU028752.D
 Acq: 18 Dec 2018 04:47

Tgt Ion	Resp	Lower	Upper
91	100		
126	0.0	15.6	46.8#



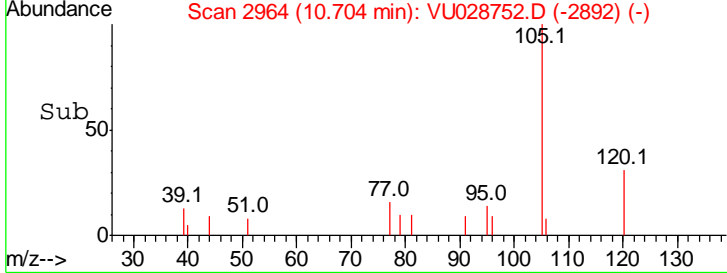
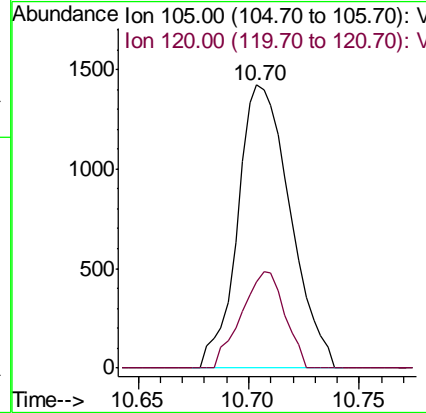
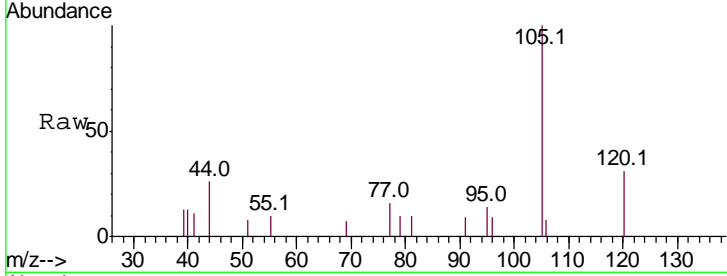


#80
 1,3,5-Trimethylbenzene
 Concen: 0.632 ug/l
 RT: 10.70 min Scan# 2964
 Delta R.T. -0.07 min
 Lab File: VU028752.D
 Acq: 18 Dec 2018 04:47

Instrument : MSVOA_U
 ClientSampled :

Tgt Ion: 105 Resp: 2355

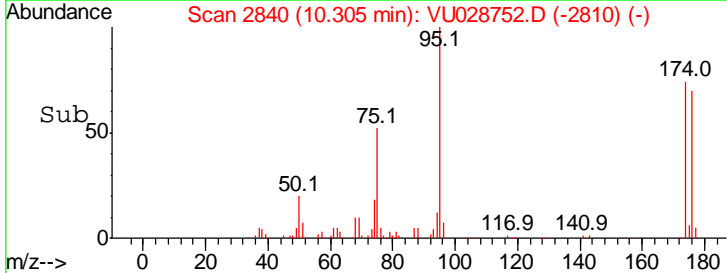
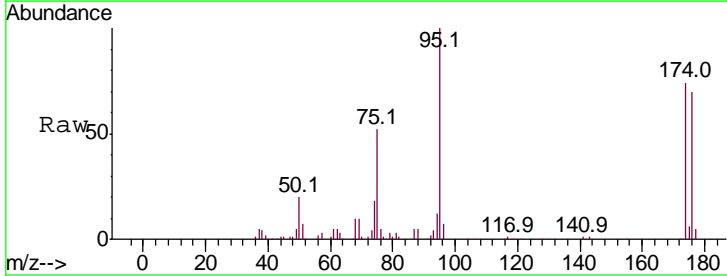
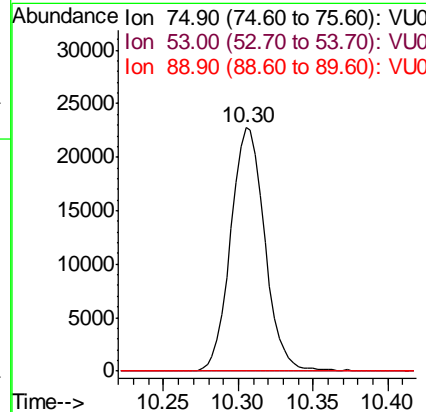
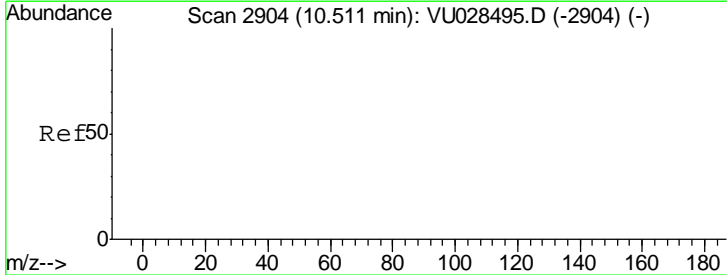
Ion	Ratio	Lower	Upper
105	100		
120	28.2	23.7	71.1

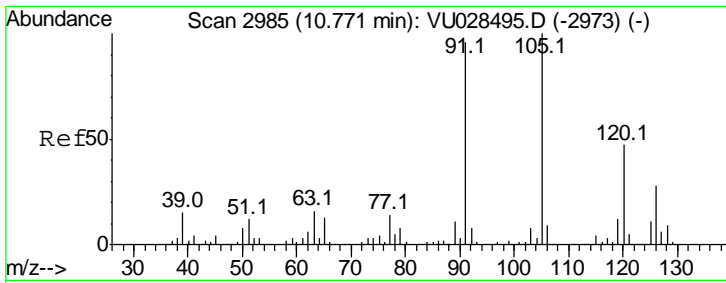


#81
 trans-1,4-Dichloro-2-butene
 Concen: 58.982 ug/l
 RT: 10.30 min Scan# 2840
 Delta R.T. -0.21 min
 Lab File: VU028752.D
 Acq: 18 Dec 2018 04:47

Tgt Ion: 75 Resp: 36020

Ion	Ratio	Lower	Upper
75	100		
53	0.0	0.0	0.0
89	0.0	0.0	0.0

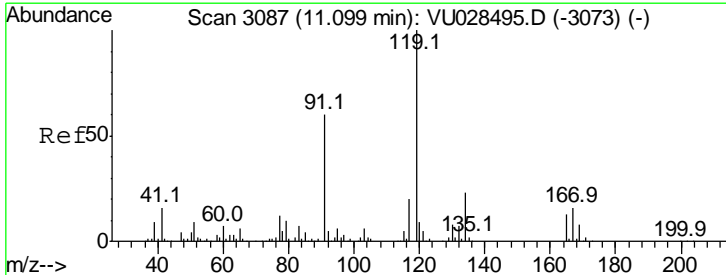
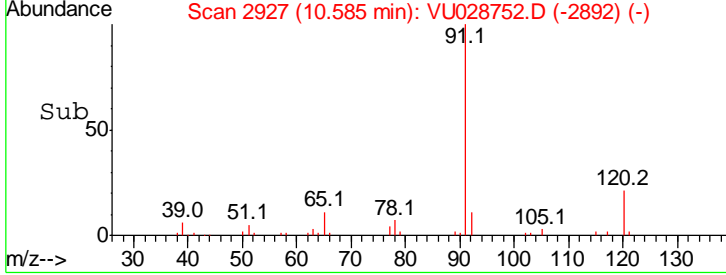
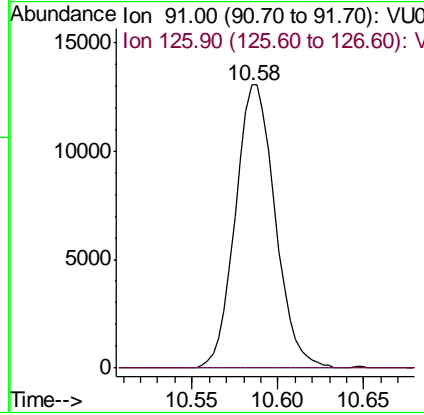
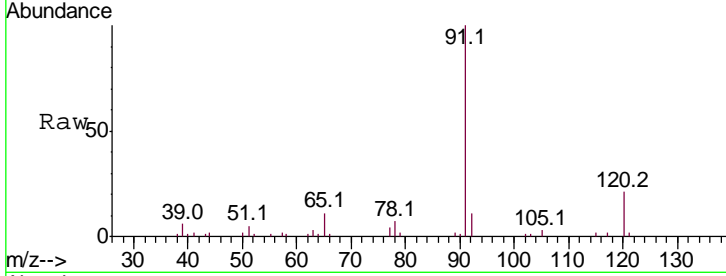




#82
 4-Chlorotoluene
 Concen: 5.480 ug/l
 RT: 10.58 min Scan# 2927
 Delta R.T. -0.19 min
 Lab File: VU028752.D
 Acq: 18 Dec 2018 04:47

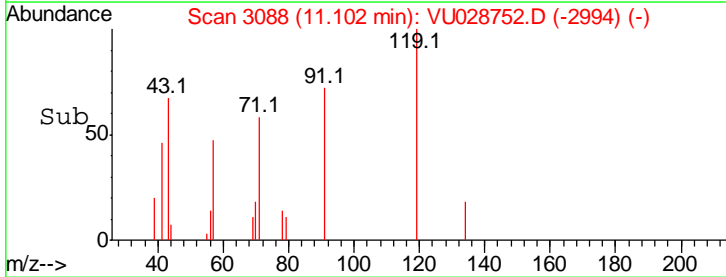
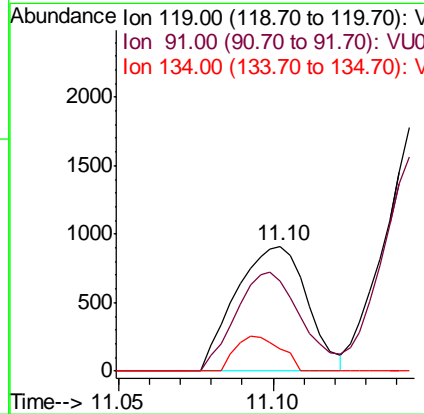
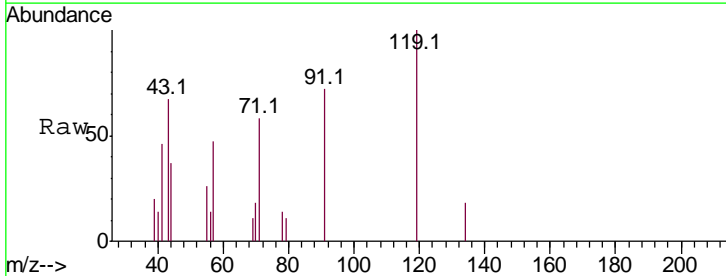
Instrument :
 MSVOA_U
 ClientSampled :

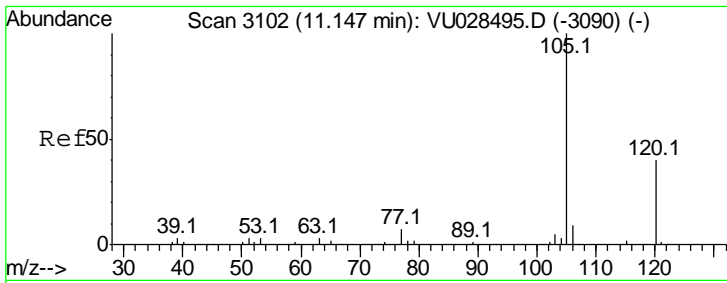
Tgt Ion	Resp	Lower	Upper
91	100		
126	0.0	14.1	42.3#



#83
 tert-Butylbenzene
 Concen: 0.407 ug/l
 RT: 11.10 min Scan# 3088
 Delta R.T. 0.00 min
 Lab File: VU028752.D
 Acq: 18 Dec 2018 04:47

Tgt Ion	Resp	Lower	Upper
119	100		
91	72.8	30.3	91.0
134	17.6	11.2	33.5

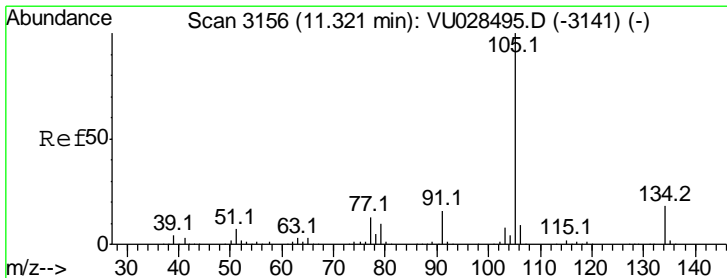
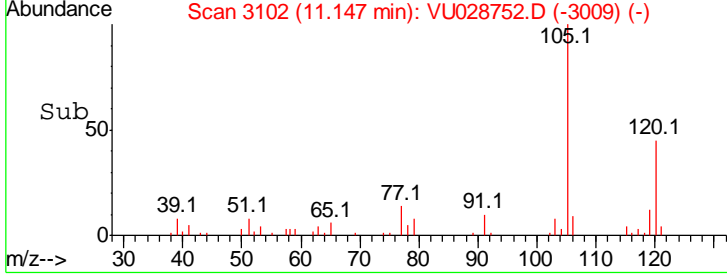
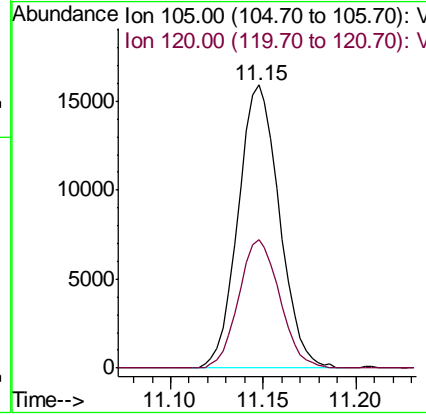
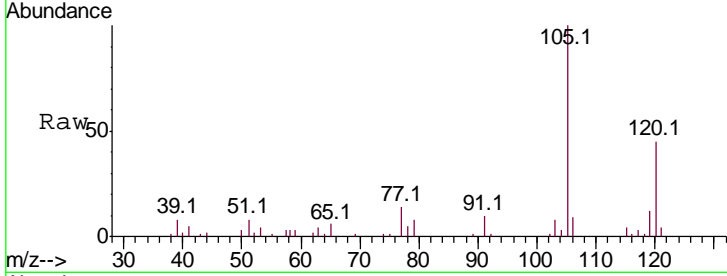




#84
 1,2,4-Trimethylbenzene
 Concen: 6.373 ug/l
 RT: 11.15 min Scan# 3102
 Delta R.T. -0.00 min
 Lab File: VU028752.D
 Acq: 18 Dec 2018 04:47

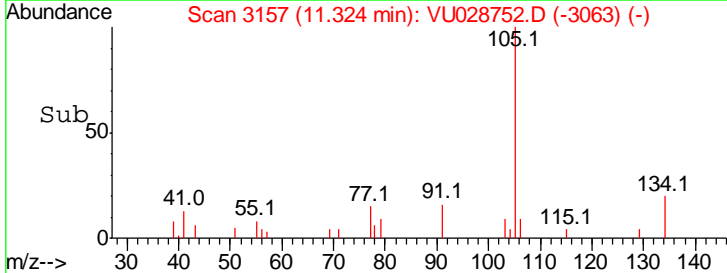
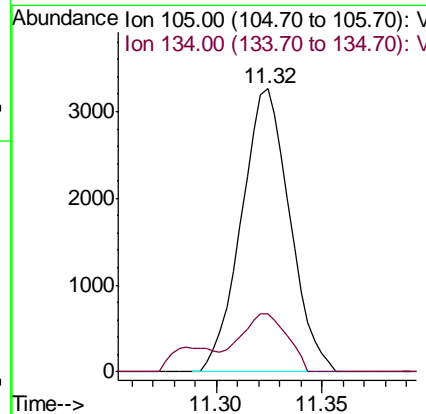
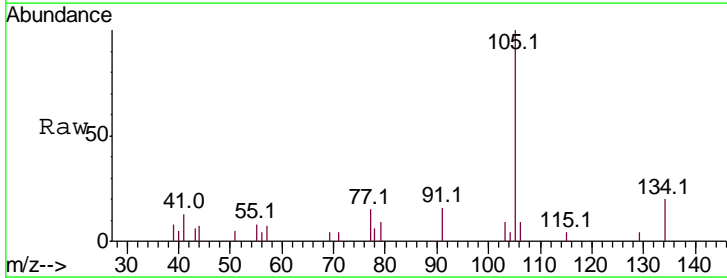
Instrument :
 MSVOA_U
 ClientSampled :

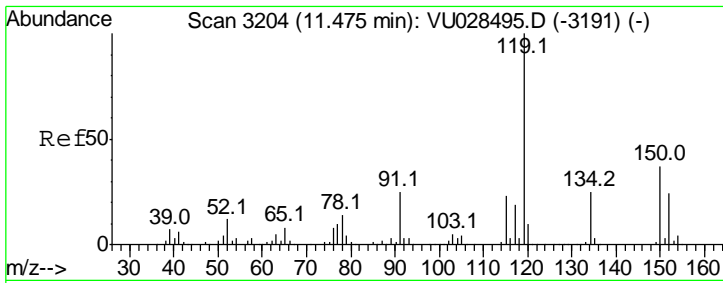
Tgt Ion	Resp	Lower	Upper
105	100		
120	45.2	21.8	65.4



#85
 sec-Butylbenzene
 Concen: 1.126 ug/l
 RT: 11.32 min Scan# 3157
 Delta R.T. 0.00 min
 Lab File: VU028752.D
 Acq: 18 Dec 2018 04:47

Tgt Ion	Resp	Lower	Upper
105	100		
134	20.0	9.2	27.6

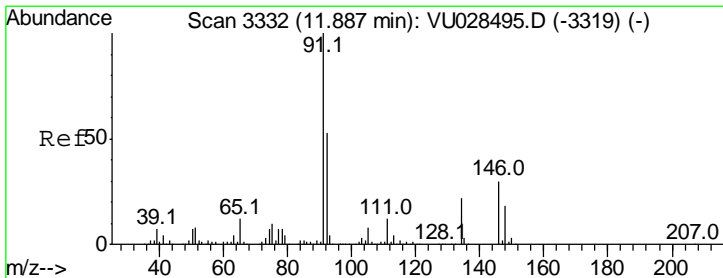
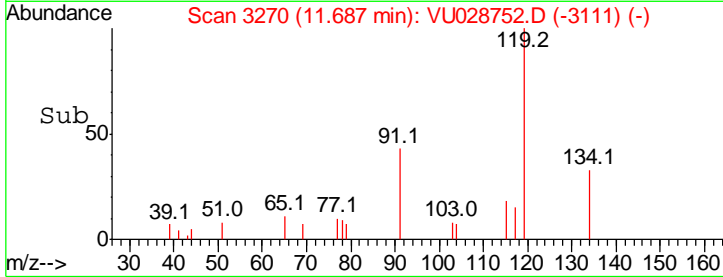
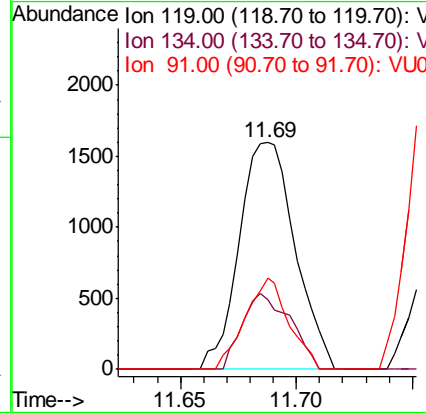
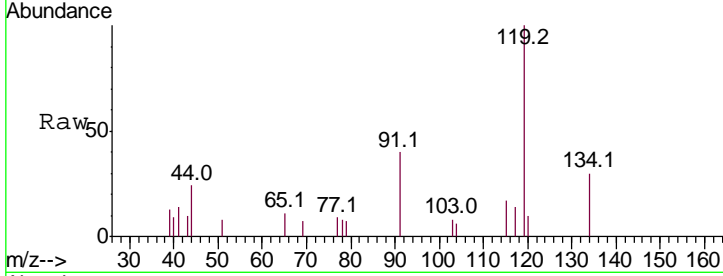




#86
 p-Isopropyltoluene
 Concen: 0.683 ug/l
 RT: 11.69 min Scan# 3270
 Delta R.T. 0.21 min
 Lab File: VU028752.D
 Acq: 18 Dec 2018 04:47

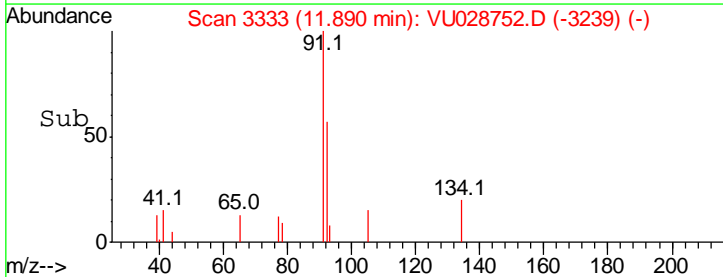
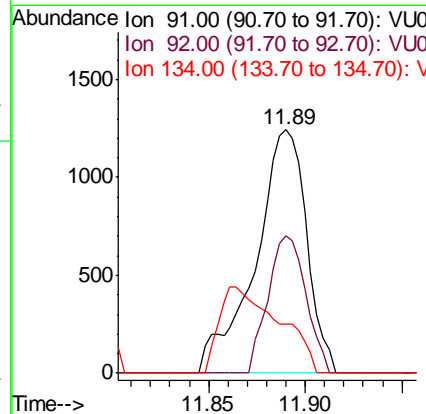
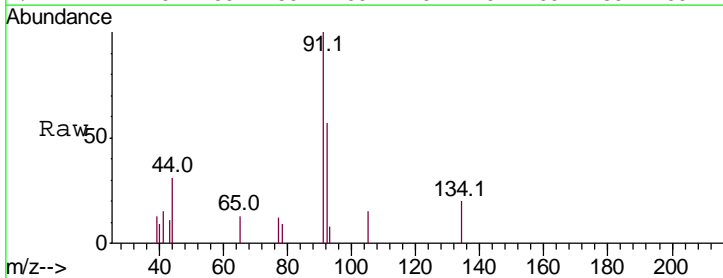
Instrument : MSVOA_U
 ClientSampled :

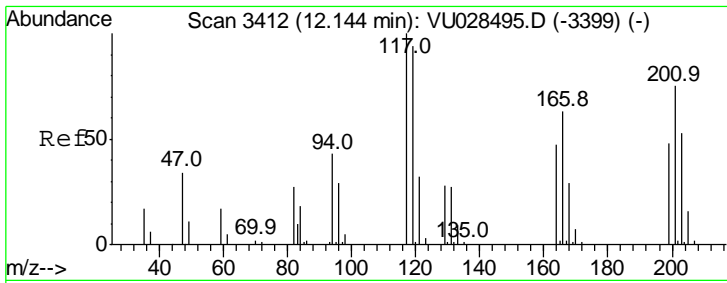
Tgt Ion	Resp	Lower	Upper
119	100		
134	28.7	12.7	38.1
91	31.4	12.6	37.6



#89
 n-Butylbenzene
 Concen: 0.579 ug/l
 RT: 11.89 min Scan# 3333
 Delta R.T. 0.00 min
 Lab File: VU028752.D
 Acq: 18 Dec 2018 04:47

Tgt Ion	Resp	Lower	Upper
91	100		
92	41.7	26.3	78.9
134	0.0	11.3	33.8#





#90
 Hexachloroethane
 Concen: 1.830 ug/l
 RT: 12.25 min Scan# 3445
 Delta R.T. 0.11 min
 Lab File: VU028752.D
 Acq: 18 Dec 2018 04:47

Instrument :
 MSVOA_U
 ClientSampled :

Tot Ion	117	Resp	1085
Ion Ratio	Lower	Upper	
117	100		
201	0.0	38.1	114.5#

