

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU111318\
 Data File : VU028082.D
 Acq On : 13 Nov 2018 11:06
 Operator : MD/SY
 Sample : VU1113WBL01
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Nov 14 06:54:26 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U110218W.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 02 02:28:20 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.98	168	175411	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	335046	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	298200	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	114426	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	151134	57.95	ug/l	0.00
Spiked Amount			Recovery	=	115.90%	
35) Dibromofluoromethane	4.88	113	109923	52.03	ug/l	0.00
Spiked Amount			Recovery	=	104.06%	
50) Toluene-d8	7.57	98	432608	53.01	ug/l	0.00
Spiked Amount			Recovery	=	106.02%	
62) 4-Bromofluorobenzene	10.31	95	139436	46.33	ug/l	0.00
Spiked Amount			Recovery	=	92.66%	

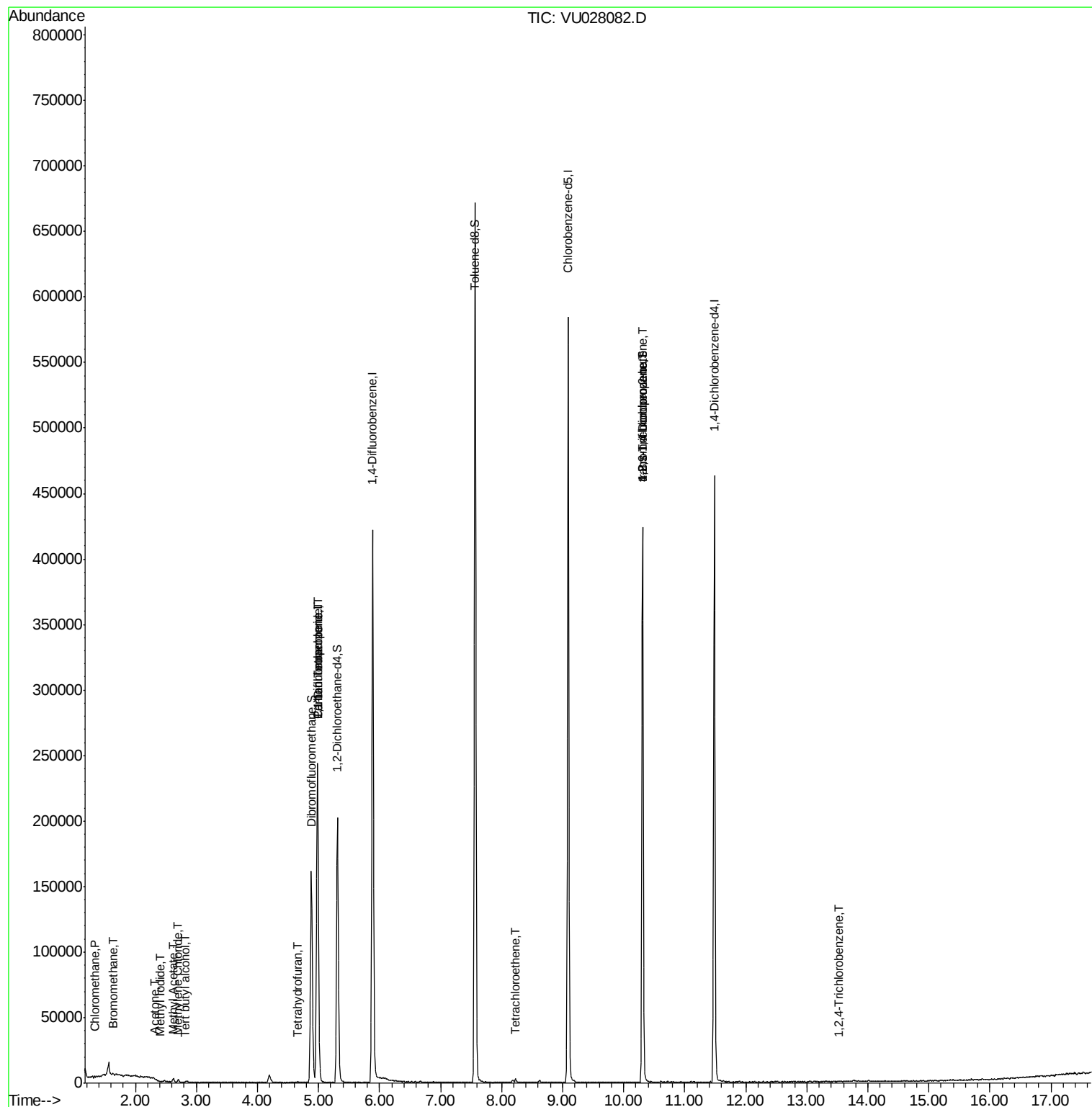
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	633	0.235	ug/l #	82
5) Bromomethane	1.63	94	213	0.239	ug/l #	3
10) Methyl Iodide	2.42	142	73	7.796	ug/l #	70
11) Tert butyl alcohol	2.83	59	540	0.782	ug/l #	73
13) Acrolein	2.19	56	63	Below Cal	#	1
16) Acetone	2.32	43	1411	0.872	ug/l #	86
18) Methyl Acetate	2.62	43	3596	0.808	ug/l	96
20) Methylene Chloride	2.70	84	675	0.286	ug/l #	76
29) Tetrahydrofuran	4.66	42	540	0.314	ug/l #	61
31) Cyclohexane	4.98	56	4578	Below Cal	#	1
36) 1,1-Dichloropropene	4.98	75	16213	4.620	ug/l #	49
38) Carbon Tetrachloride	4.99	117	18225	5.861	ug/l #	16
64) Tetrachloroethene	8.23	164	515	0.266	ug/l #	86
76) 1,2,3-Trichloropropane	10.31	75	71679	22.901	ug/l #	34
81) trans-1,4-Dichloro-2-buten	10.31	75	71679	57.143	ug/l #	100
93) 1,2,4-Trichlorobenzene	13.52	180	85	0.716	ug/l #	48
95) Naphthalene	13.78	128	1009	Below Cal	#	69

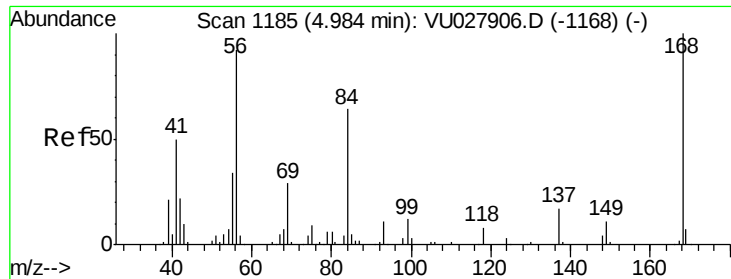
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Nov 02 02:28:20 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: VU028082.D

Acq: 13 Nov 2018 11:06

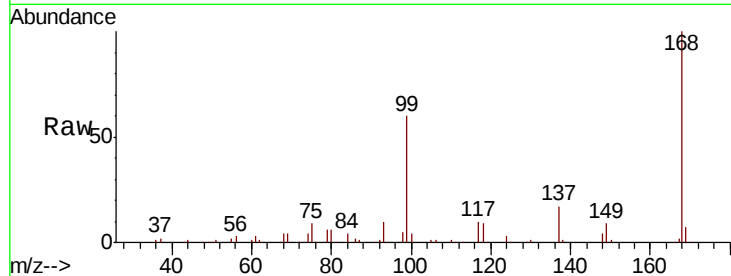
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:168 Resp: 175411

Ion Ratio Lower Upper

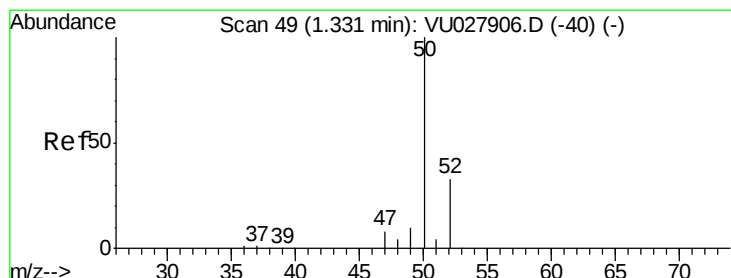
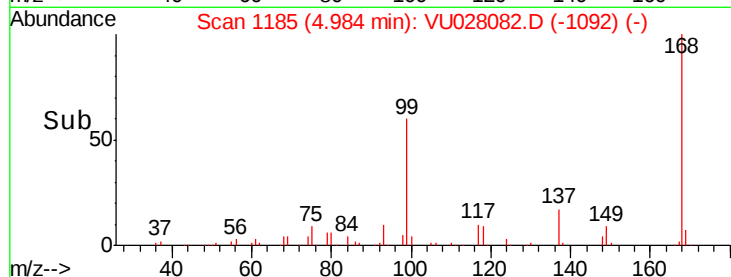
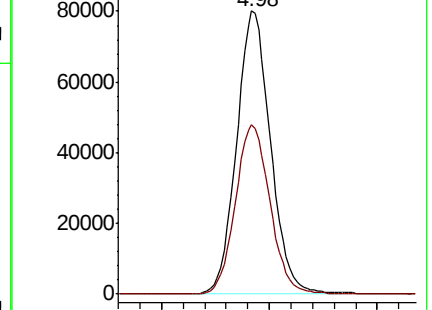
168 100

99 60.0 47.9 71.9



Abundance Ion 167.90 (167.60 to 168.60): VU027906.D (-1168) (-)

Ion 98.90 (98.60 to 99.60): VU027906.D (-1168) (-)



#3

Chloromethane

Concen: 0.235 ug/l

RT: 1.33 min Scan# 49

Delta R.T. 0.00 min

Lab File: VU028082.D

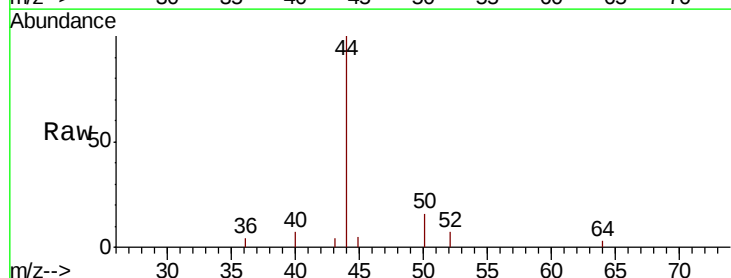
Acq: 13 Nov 2018 11:06

Tgt Ion: 50 Resp: 633

Ion Ratio Lower Upper

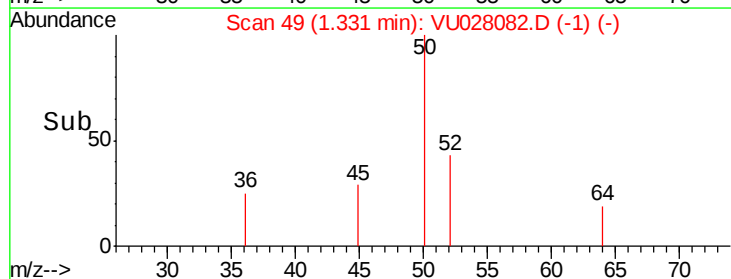
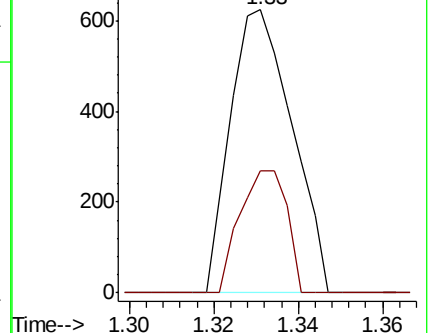
50 100

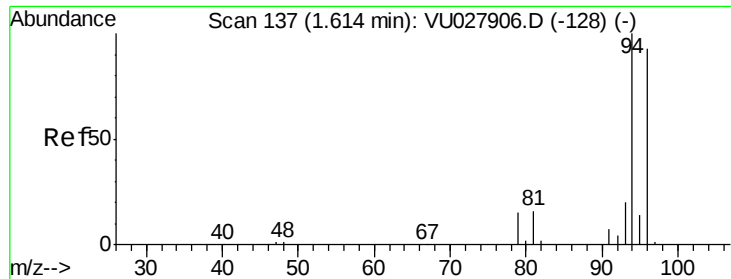
52 43.1 26.2 39.4#



Abundance Ion 49.90 (49.60 to 50.60): VU027906.D (-40) (-)

Ion 51.90 (51.60 to 52.60): VU027906.D (-40) (-)





#5

Bromomethane

Concen: 0.239 ug/l

RT: 1.63 min Scan# 141

Delta R.T. 0.01 min

Lab File: VU028082.D

Acq: 13 Nov 2018 11:06

Instrument :

MSVOA_U

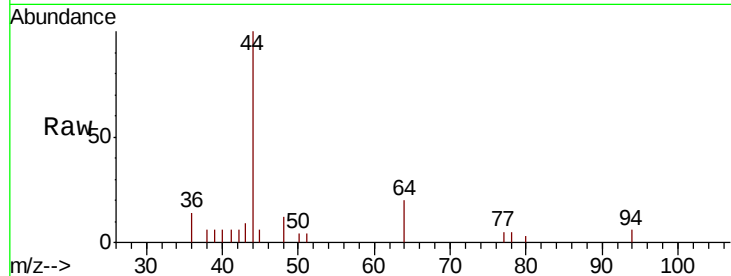
ClientSampled :

Tot Ion: 94 Resp: 213

Ion Ratio Lower Upper

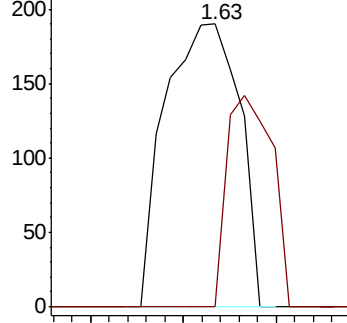
94 100

96 0.0 74.8 112.2#

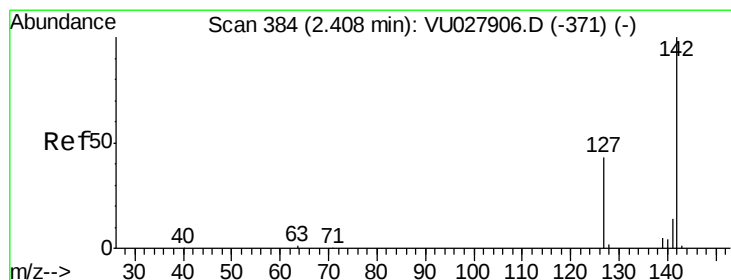
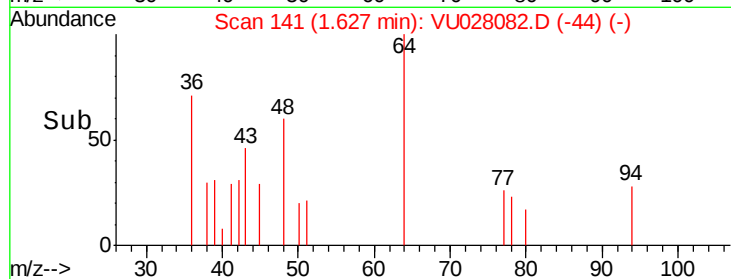


Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0



Time-->



#10

Methyl Iodide

Concen: 7.796 ug/l

RT: 2.42 min Scan# 387

Delta R.T. 0.01 min

Lab File: VU028082.D

Acq: 13 Nov 2018 11:06

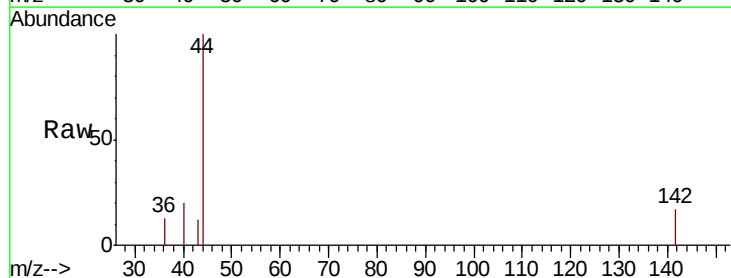
Tgt Ion: 142 Resp: 73

Ion Ratio Lower Upper

142 100

127 26.0 35.2 52.8#

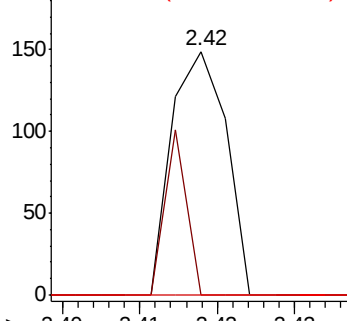
141 0.0 11.8 17.8#



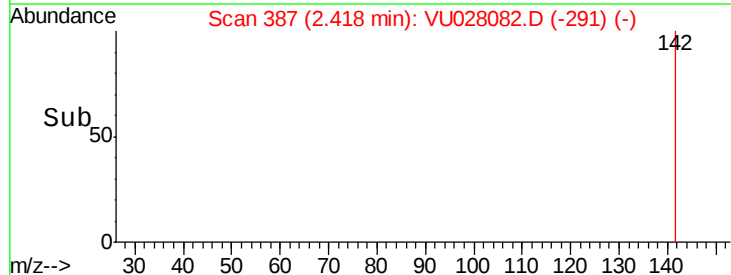
Abundance Ion 141.80 (141.50 to 142.50): V

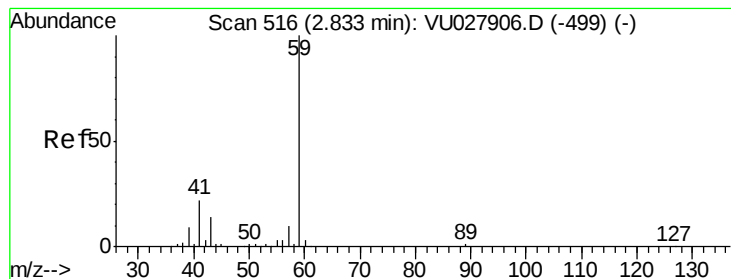
Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



Time-->





#11

Tert butyl alcohol

Concen: 0.782 ug/l

RT: 2.83 min Scan# 516

Delta R.T. 0.00 min

Lab File: VU028082.D

Acq: 13 Nov 2018 11:06

Instrument :

MSVOA_U

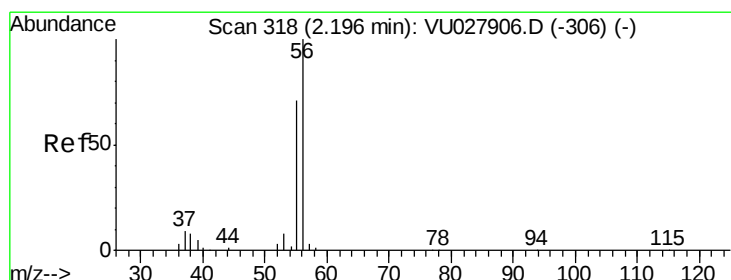
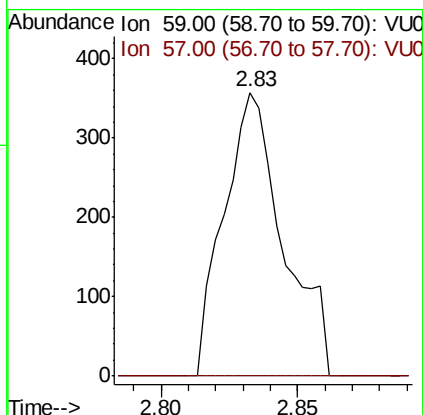
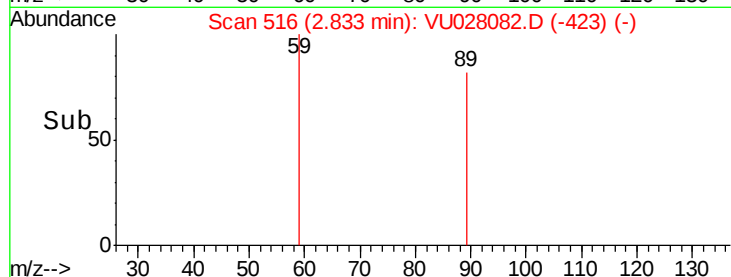
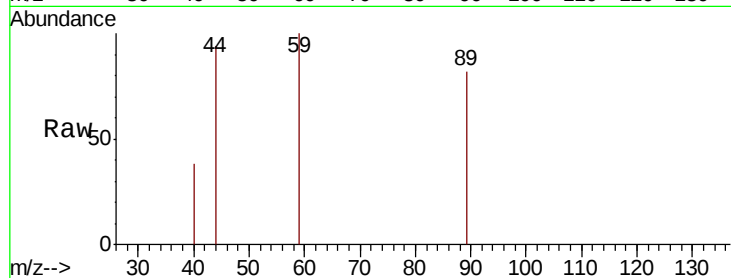
ClientSampleId :

Tot Ion: 59 Resp: 540

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.8#



#13

Acrolein

Concen: Below Cal

RT: 2.19 min Scan# 317

Delta R.T. -0.00 min

Lab File: VU028082.D

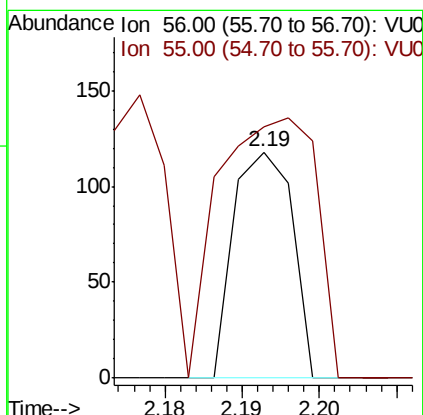
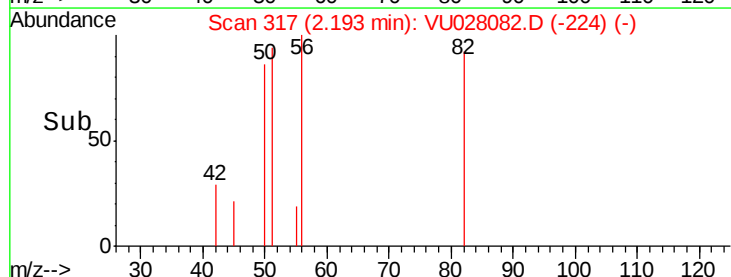
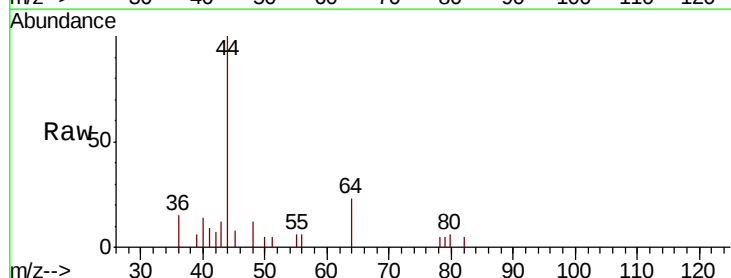
Acq: 13 Nov 2018 11:06

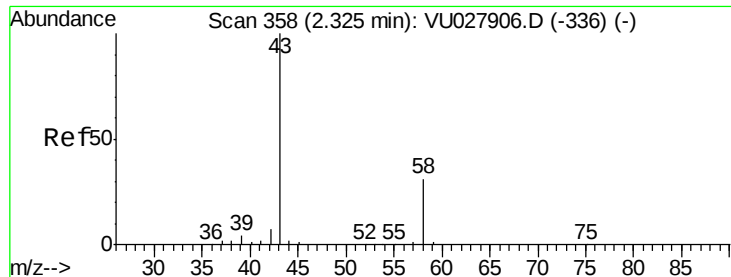
Tgt Ion: 56 Resp: 63

Ion Ratio Lower Upper

56 100

55 188.9 56.2 84.4#





#16

Acetone

Concen: 0.872 ug/l

RT: 2.32 min Scan# 358

Delta R.T. 0.00 min

Lab File: VU028082.D

Acq: 13 Nov 2018 11:06

Instrument :

MSVOA_U

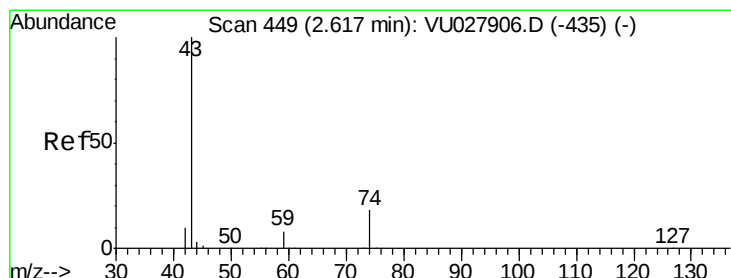
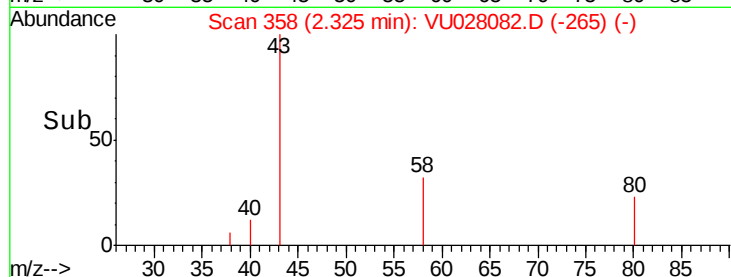
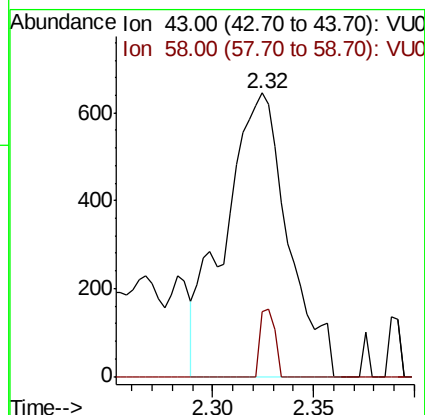
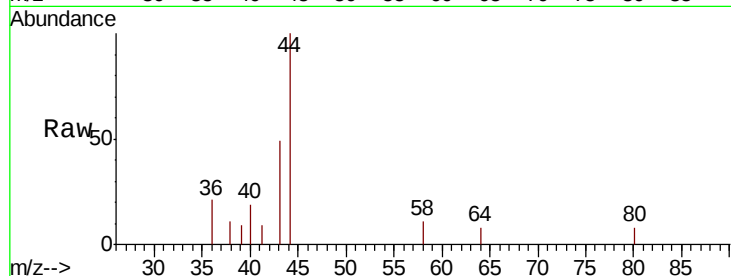
ClientSampled :

Tot Ion: 43 Resp: 1411

Ion Ratio Lower Upper

43 100

58 22.9 24.6 37.0#



#18

Methyl Acetate

Concen: 0.808 ug/l

RT: 2.62 min Scan# 450

Delta R.T. 0.00 min

Lab File: VU028082.D

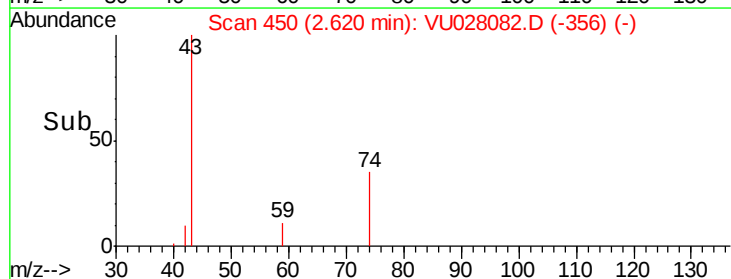
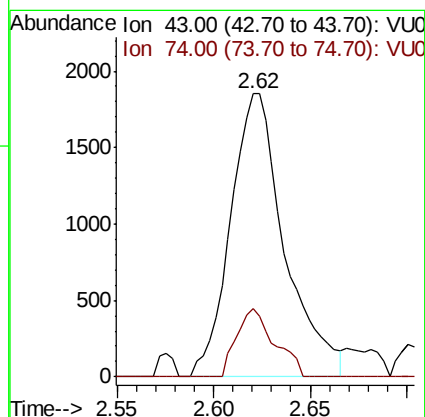
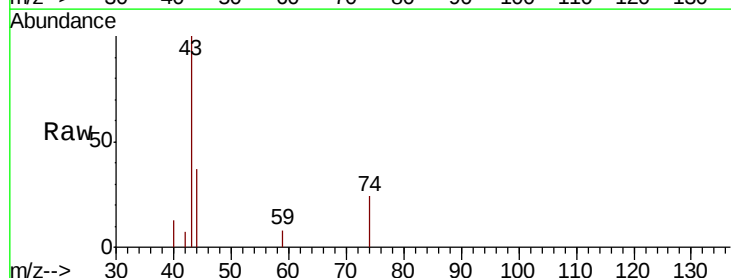
Acq: 13 Nov 2018 11:06

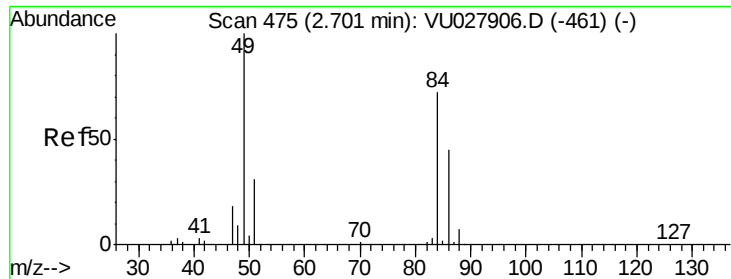
Tgt Ion: 43 Resp: 3596

Ion Ratio Lower Upper

43 100

74 16.7 14.9 22.3

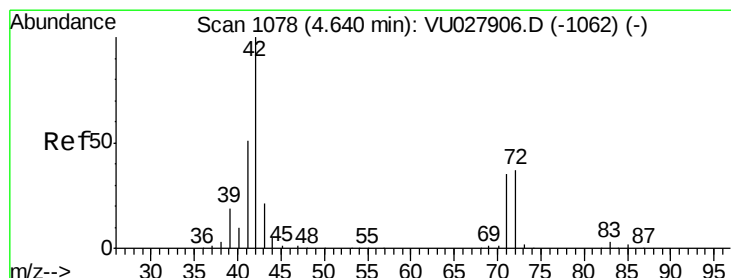
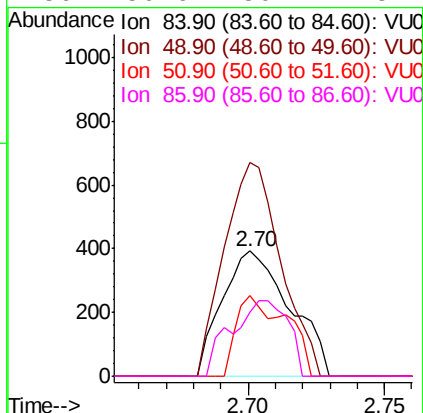
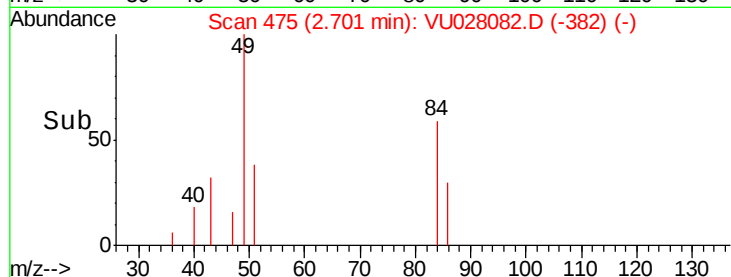
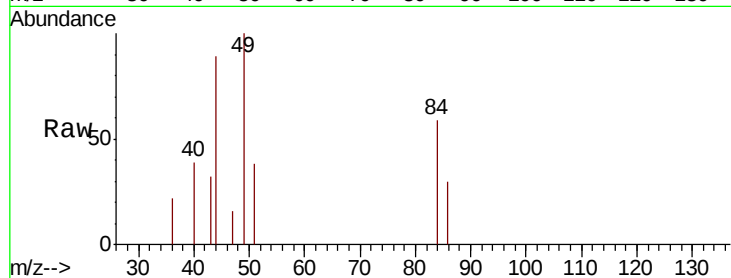




#20
Methvlene Chloride
Concen: 0.286 ug/l
RT: 2.70 min Scan# 475
Delta R.T. 0.00 min
Lab File: VU028082.D
Acq: 13 Nov 2018 11:06

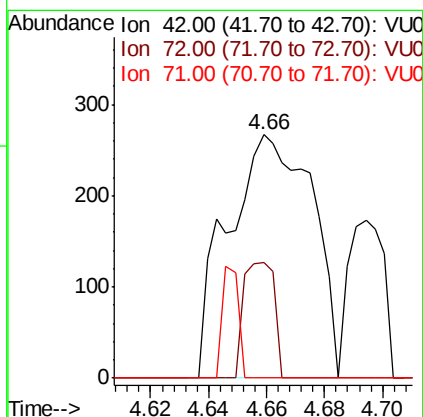
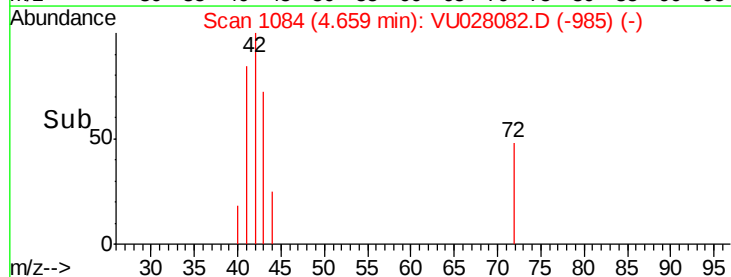
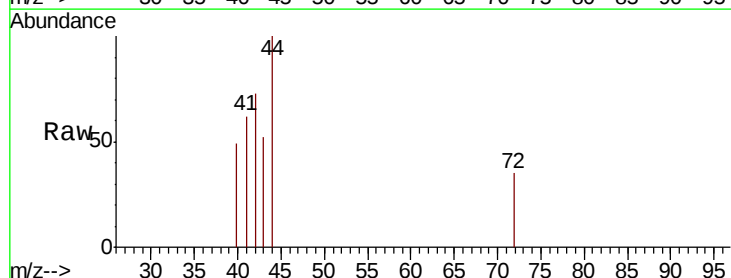
Instrument :
MSVOA_U
ClientSampled :

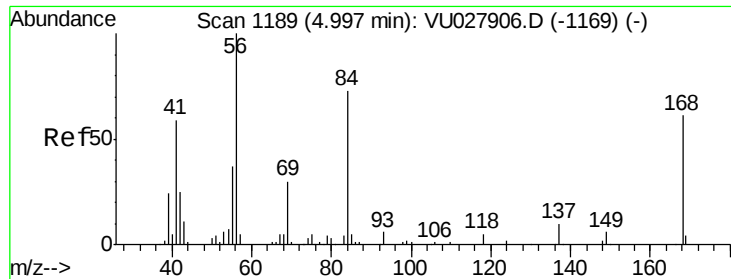
Tot Ion: 84 Resp: 675
Ion Ratio Lower Upper
84 100
49 170.5 111.6 167.4#
51 64.1 34.8 52.2#
86 50.6 50.1 75.1



#29
Tetrahydrofuran
Concen: 0.314 ug/l
RT: 4.66 min Scan# 1084
Delta R.T. 0.02 min
Lab File: VU028082.D
Acq: 13 Nov 2018 11:06

Tgt Ion: 42 Resp: 540
Ion Ratio Lower Upper
42 100
72 17.2 29.4 44.0#
71 8.5 27.9 41.9#

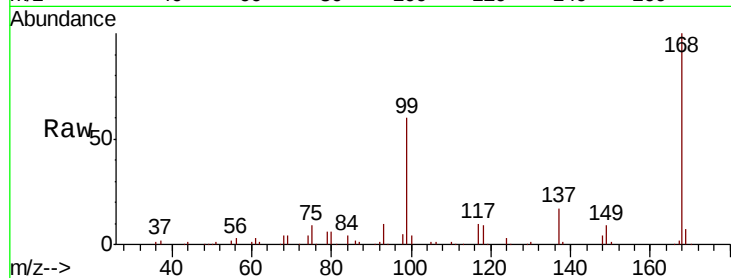




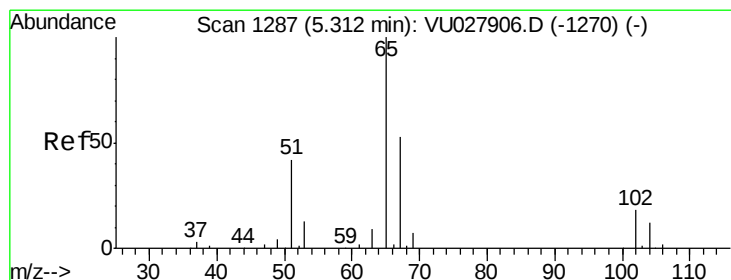
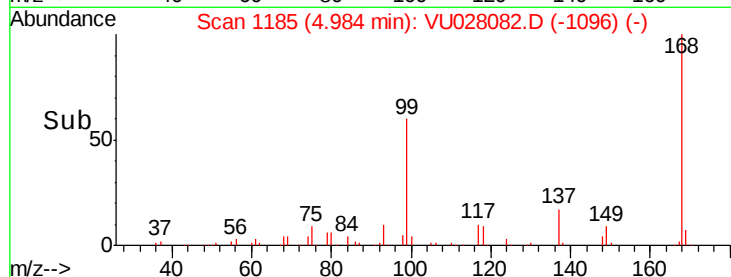
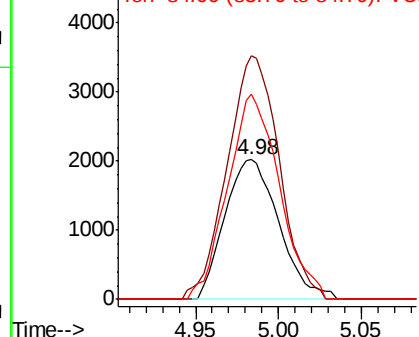
#31
Cyclohexane
Concen: Below Cal
RT: 4.98 min Scan# 1185
Delta R.T. -0.01 min
Lab File: VU028082.D
Acq: 13 Nov 2018 11:06

Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 56 Resp: 4578
Ion Ratio Lower Upper
56 100
69 174.2 23.7 35.5#
84 146.4 58.2 87.4#

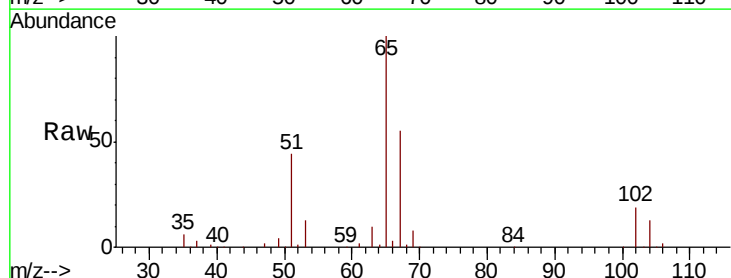


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

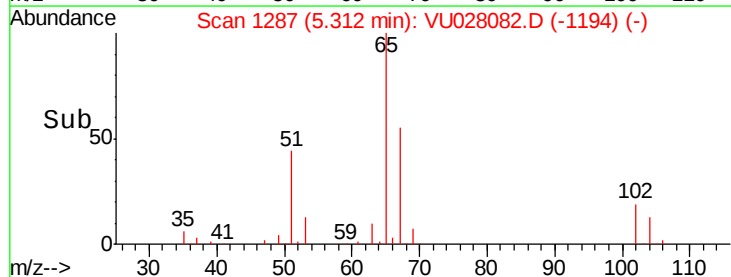
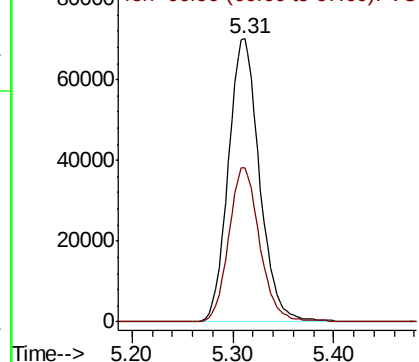


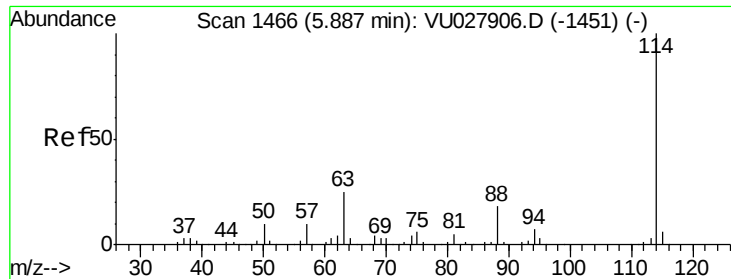
#33
1,2-Dichloroethane-d4
Concen: 57.952 ug/l
RT: 5.31 min Scan# 1287
Delta R.T. 0.00 min
Lab File: VU028082.D
Acq: 13 Nov 2018 11:06

Tgt Ion: 65 Resp: 151134
Ion Ratio Lower Upper
65 100
67 54.2 0.0 109.0



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

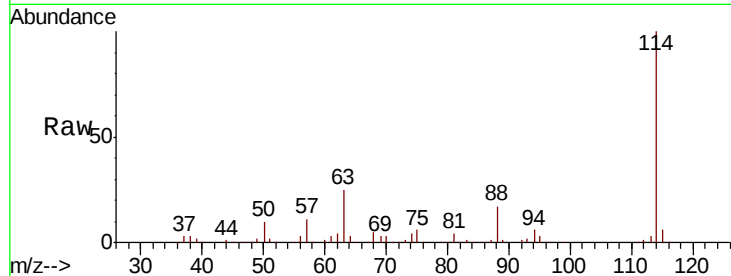




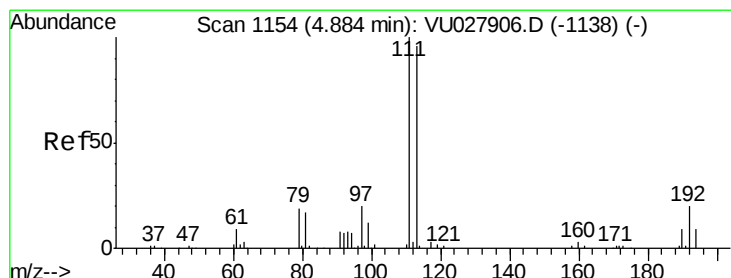
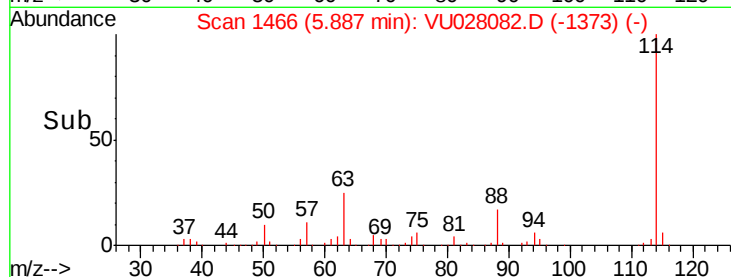
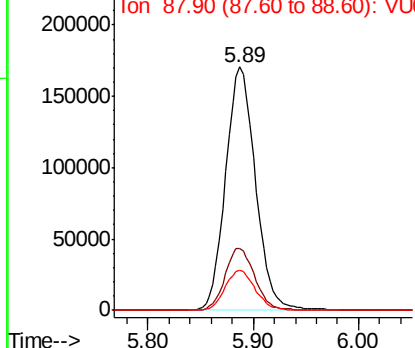
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1466
 Delta R.T. 0.00 min
 Lab File: VU028082.D
 Acq: 13 Nov 2018 11:06

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:114 Resp: 335046
 Ion Ratio Lower Upper
 114 100
 63 25.4 0.0 50.8
 88 16.6 0.0 35.8

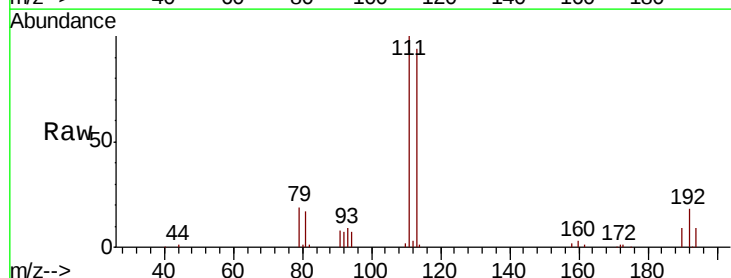


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VU0
 Ion 87.90 (87.60 to 88.60): VU0

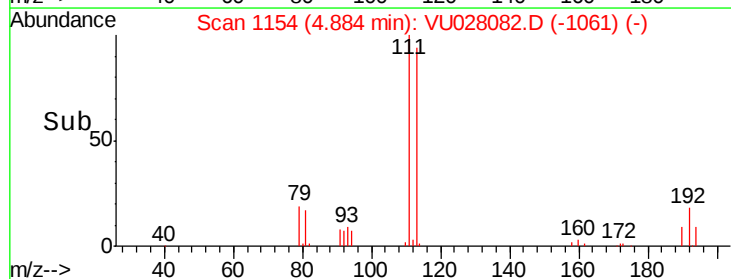
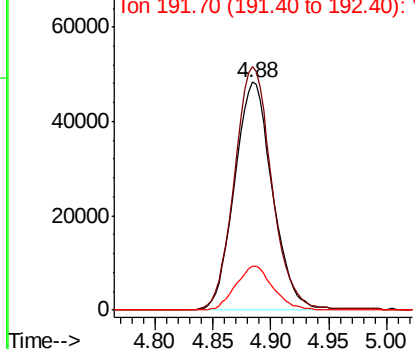


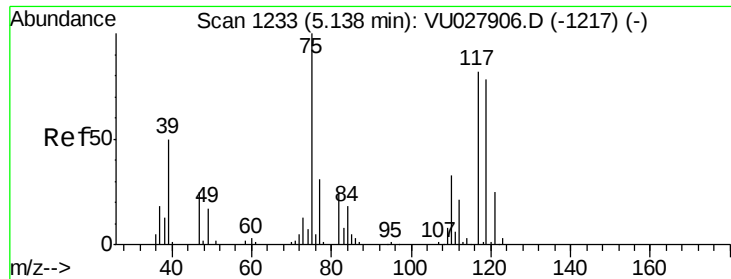
#35
 Dibromofluoromethane
 Concen: 52.034 ug/l
 RT: 4.88 min Scan# 1154
 Delta R.T. 0.00 min
 Lab File: VU028082.D
 Acq: 13 Nov 2018 11:06

Tgt Ion:113 Resp: 109923
 Ion Ratio Lower Upper
 113 100
 111 105.0 83.0 124.6
 192 19.1 15.6 23.4



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

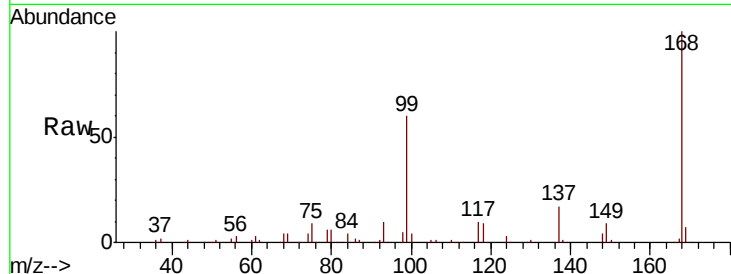




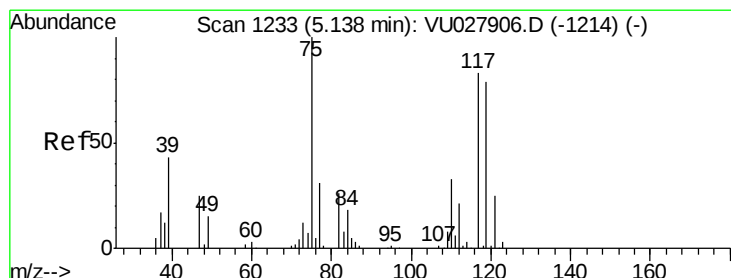
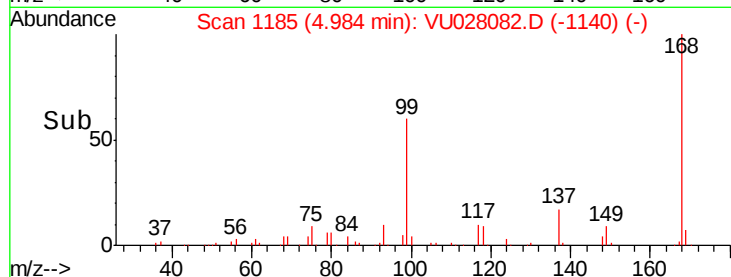
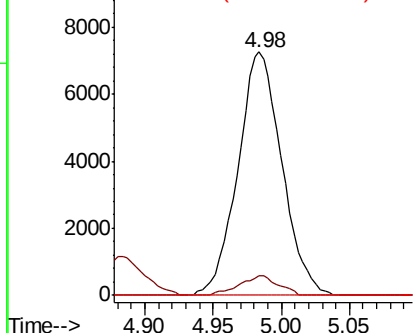
#36
 1,1-Dichloropropene
 Concen: 4.620 ug/l
 RT: 4.98 min Scan# 1185
 Delta R.T. -0.15 min
 Lab File: VU028082.D
 Acq: 13 Nov 2018 11:06

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
75	100		
110	7.0	16.5	49.5#
77	0.0	24.9	37.3#

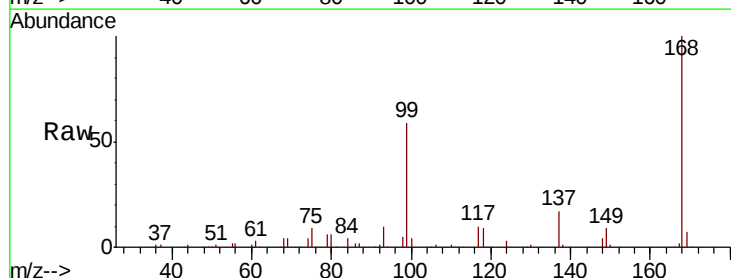


Abundance Ion 74.90 (74.60 to 75.60): VU027906.D (-1217) (-)
 Ion 109.90 (109.60 to 110.60): VU027906.D (-1217) (-)
 Ion 76.90 (76.60 to 77.60): VU027906.D (-1217) (-)

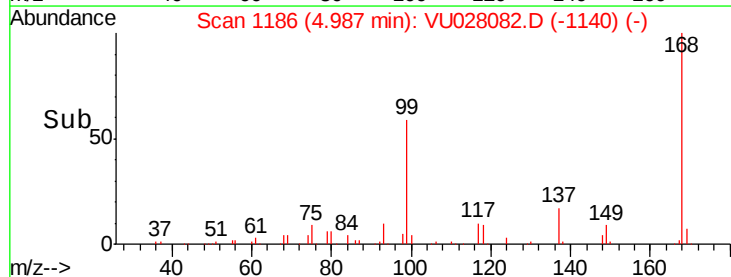
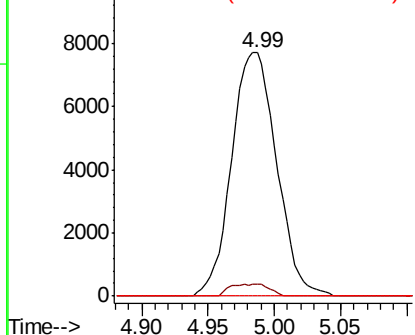


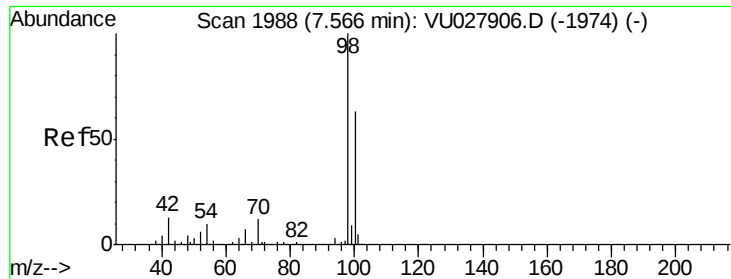
#38
 Carbon Tetrachloride
 Concen: 5.861 ug/l
 RT: 4.99 min Scan# 1186
 Delta R.T. -0.15 min
 Lab File: VU028082.D
 Acq: 13 Nov 2018 11:06

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.1	76.0	114.0#
121	0.0	24.5	36.7#



Abundance Ion 116.80 (116.50 to 117.50): VU027906.D (-1214) (-)
 Ion 118.80 (118.50 to 119.50): VU027906.D (-1214) (-)
 Ion 120.80 (120.50 to 121.50): VU027906.D (-1214) (-)

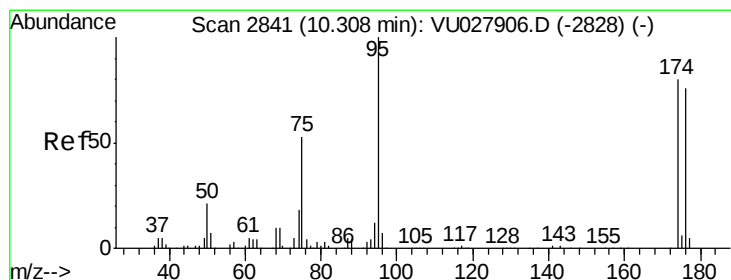
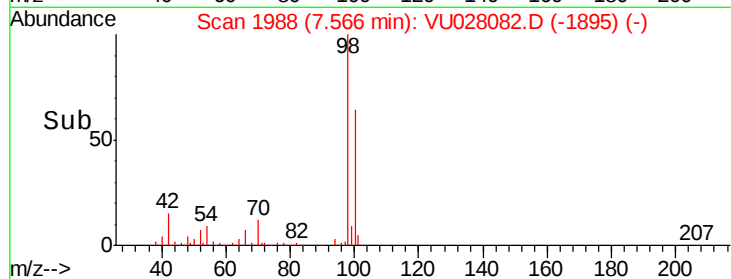
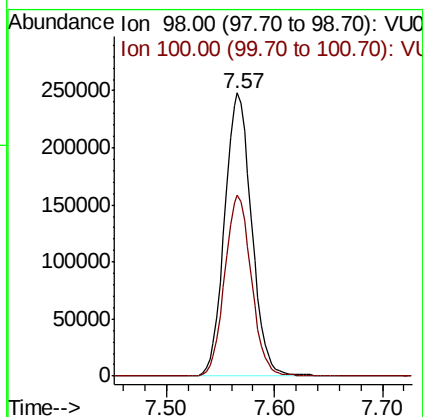
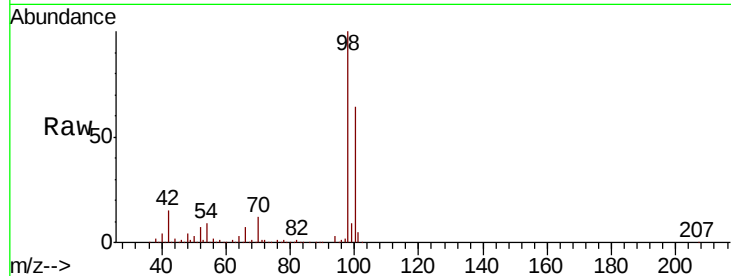




#50
Toluene-d8
Concen: 53.013 ug/l
RT: 7.57 min Scan# 1988
Delta R.T. 0.00 min
Lab File: VU028082.D
Acq: 13 Nov 2018 11:06

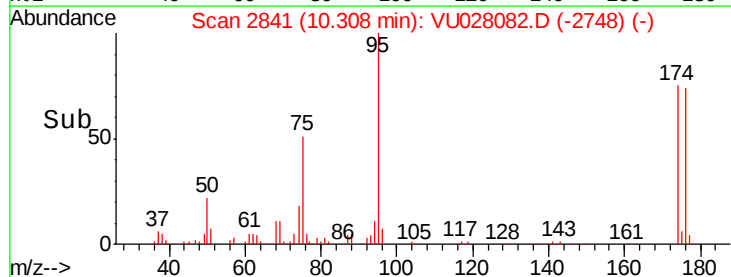
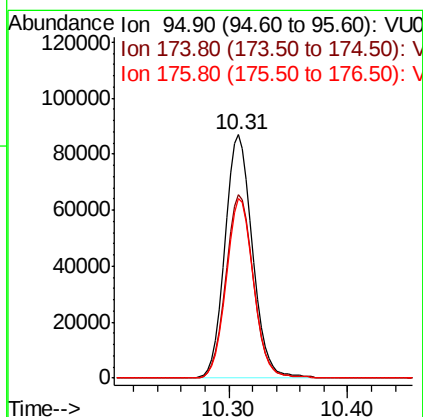
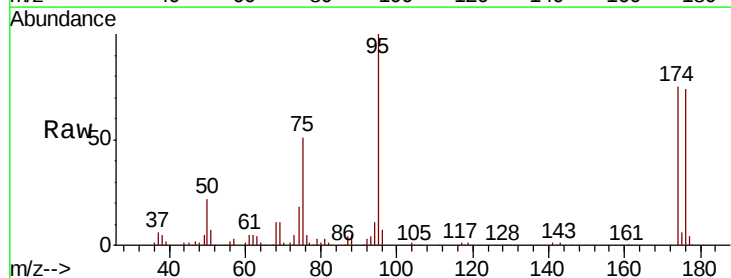
Instrument :
MSVOA_U
ClientSampled :

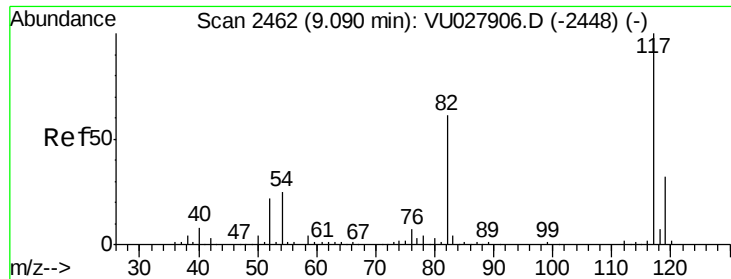
Tot Ion: 98 Resp: 432608
Ion Ratio Lower Upper
98 100
100 63.3 50.1 75.1



#62
4-Bromofluorobenzene
Concen: 46.325 ug/l
RT: 10.31 min Scan# 2841
Delta R.T. 0.00 min
Lab File: VU028082.D
Acq: 13 Nov 2018 11:06

Tgt Ion: 95 Resp: 139436
Ion Ratio Lower Upper
95 100
174 75.5 0.0 156.4
176 73.6 0.0 150.8

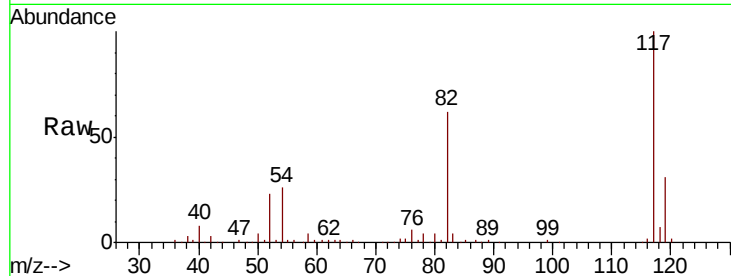




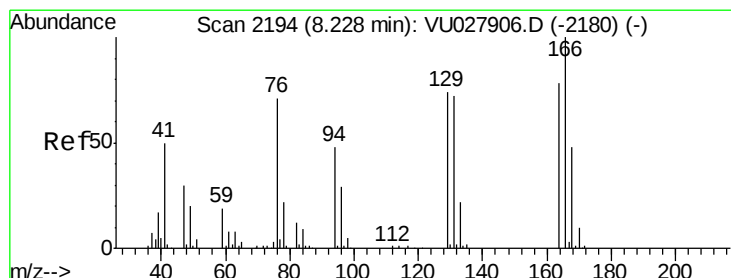
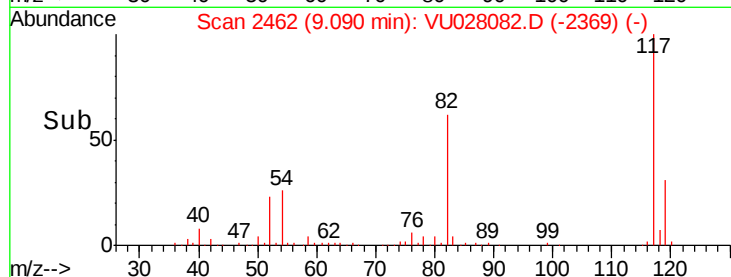
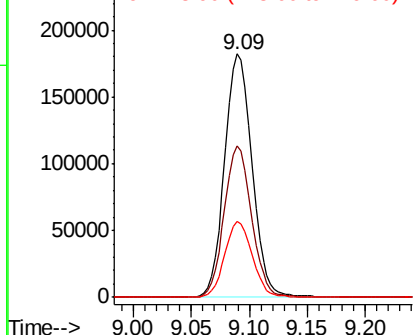
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2462
Delta R.T. 0.00 min
Lab File: VU028082.D
Acq: 13 Nov 2018 11:06

Instrument :
MSVOA_U
ClientSampleID :

Tot Ion:117 Resp: 298200
Ion Ratio Lower Upper
117 100
82 62.4 48.6 73.0
119 31.0 25.8 38.8

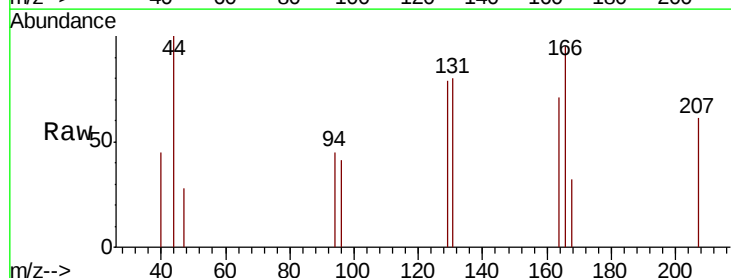


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VU0
Ion 118.90 (118.60 to 119.60): V

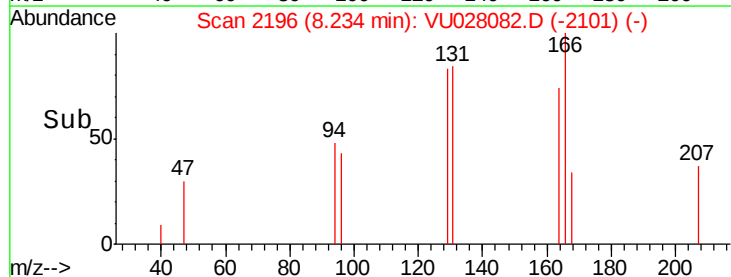
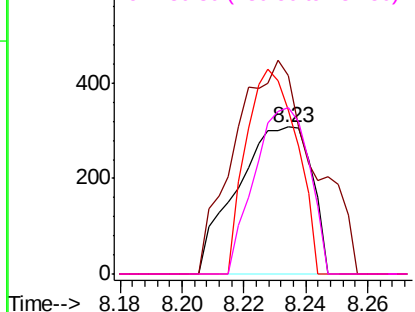


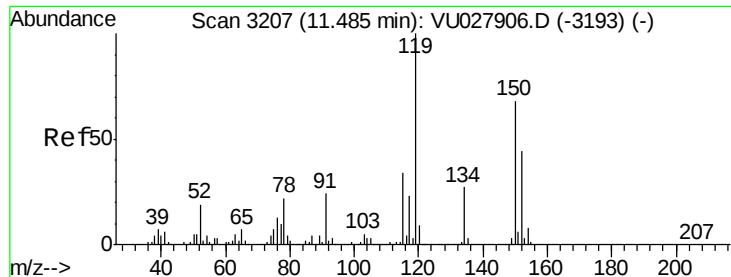
#64
Tetrachloroethene
Concen: 0.266 ug/l
RT: 8.23 min Scan# 2196
Delta R.T. 0.01 min
Lab File: VU028082.D
Acq: 13 Nov 2018 11:06

Tgt Ion:164 Resp: 515
Ion Ratio Lower Upper
164 100
166 134.4 102.1 153.1
129 111.0 75.9 113.9
131 113.3 73.0 109.6#



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# 3207

Delta R.T. 0.00 min

Lab File: VU028082.D

Acq: 13 Nov 2018 11:06

Instrument :

MSVOA_U

ClientSampled :

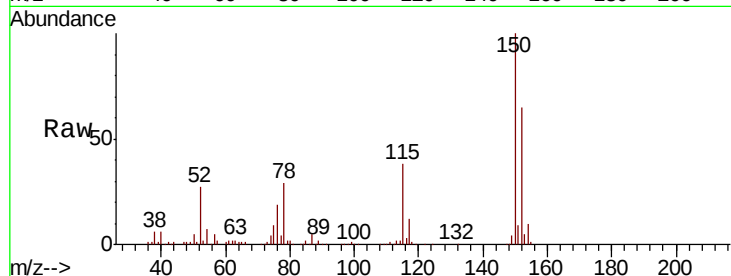
Tot Ion:152 Resp: 114426

Ion Ratio Lower Upper

152 100

115 61.0 43.0 129.0

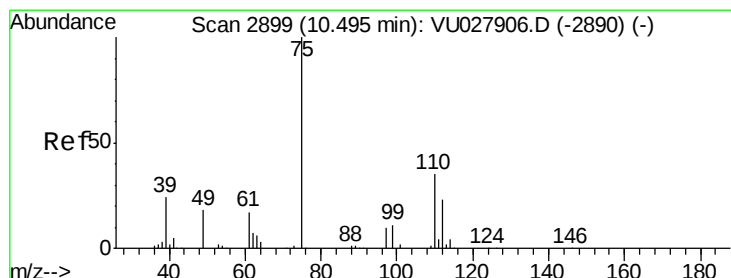
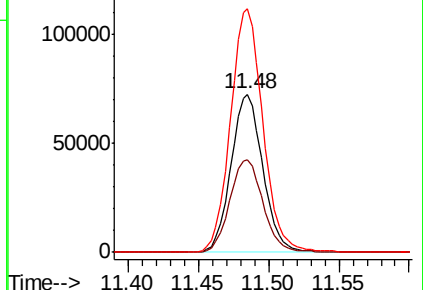
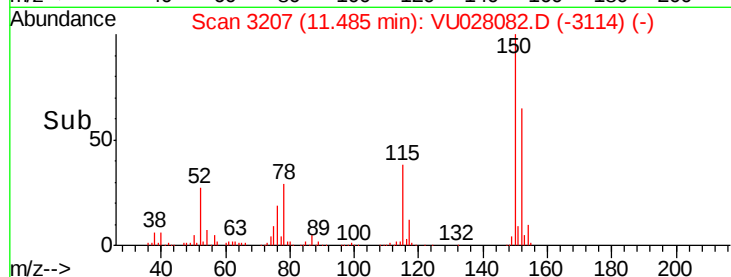
150 157.1 0.0 349.4



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: 22.901 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.19 min

Lab File: VU028082.D

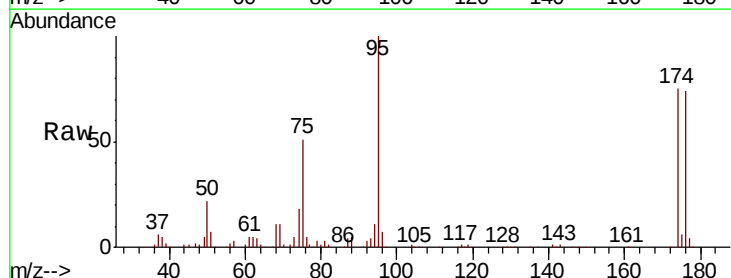
Acq: 13 Nov 2018 11:06

Tgt Ion: 75 Resp: 71679

Ion Ratio Lower Upper

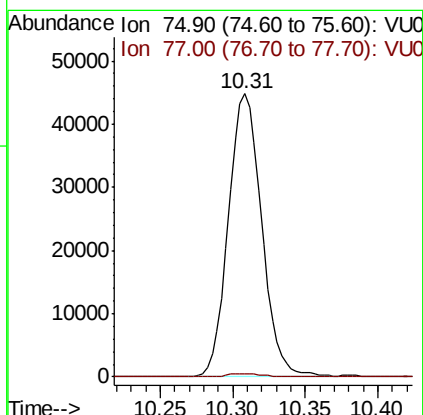
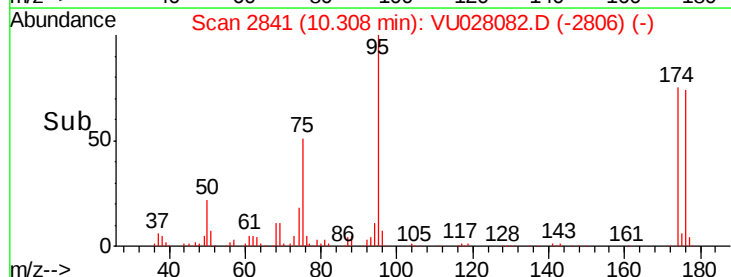
75 100

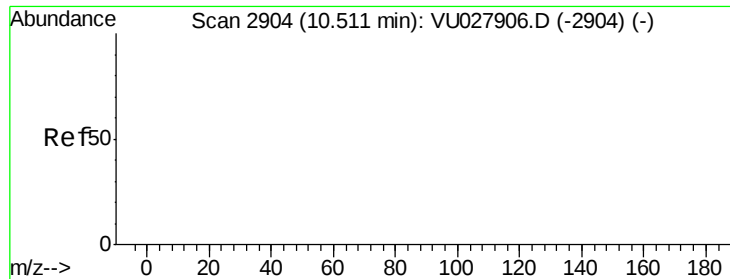
77 1.1 21.6 64.6#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0

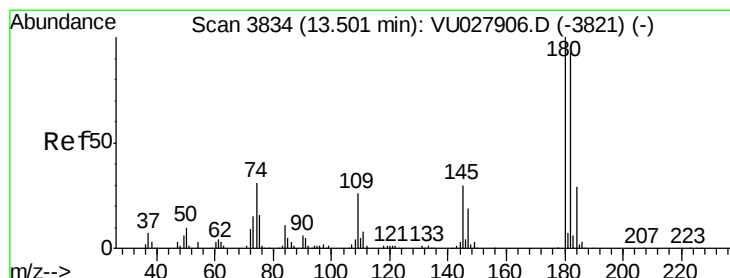
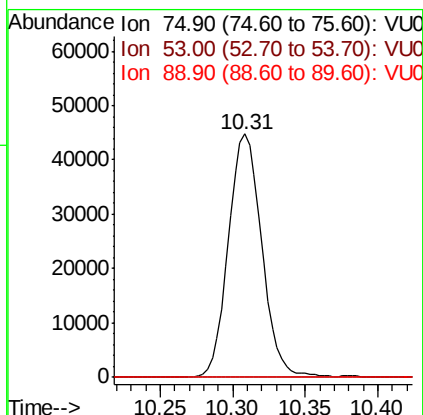
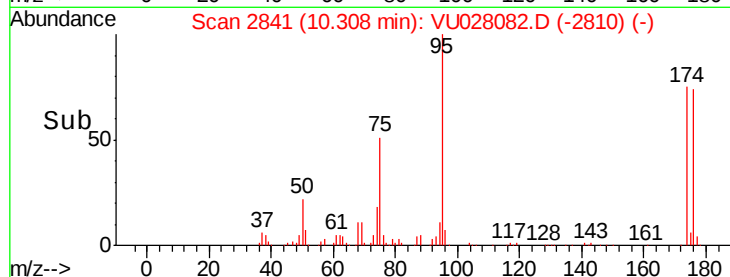
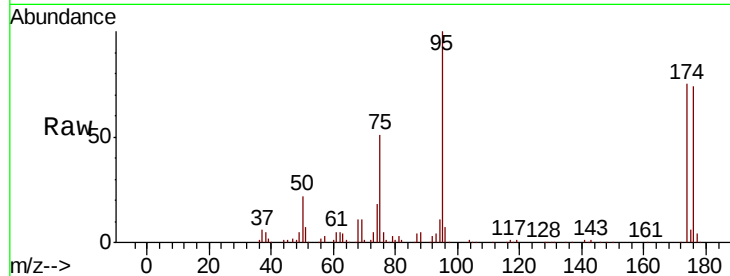




#81
trans-1,4-Dichloro-2-butene
Concen: 57.143 ug/l
RT: 10.31 min Scan# 2841
Delta R.T. -0.20 min
Lab File: VU028082.D
Acq: 13 Nov 2018 11:06

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 75 Resp: 71679
Ion Ratio Lower Upper
75 100
53 0.0 0.0 0.0
89 0.0 0.0 0.0



#93
1,2,4-Trichlorobenzene
Concen: 0.716 ug/l
RT: 13.52 min Scan# 3841
Delta R.T. 0.02 min
Lab File: VU028082.D
Acq: 13 Nov 2018 11:06

Tgt Ion: 180 Resp: 85
Ion Ratio Lower Upper
180 100
182 147.1 48.4 145.2#
145 0.0 14.9 44.5#

