

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU080118\
 Data File : VU025741.D
 Acq On : 31 Jul 2018 16:11
 Operator : MD/SY
 Sample : J4040-02ME
 Misc : 5.21g/5.0mL/100uL/5.00mL/MSVOA_U/MEOH
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 C0AD9

Quant Time: Jul 31 16:54:17 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U072718W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 27 13:11:52 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.98	168	179349	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	284048	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	284520	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	181556	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	138443	49.54	ug/l	0.00
Spiked Amount			Recovery	=	99.08%	
35) Dibromofluoromethane	4.88	113	117536	47.58	ug/l	0.00
Spiked Amount			Recovery	=	95.16%	
50) Toluene-d8	7.57	98	411988	47.66	ug/l	0.00
Spiked Amount			Recovery	=	95.32%	
62) 4-Bromofluorobenzene	10.31	95	174428	51.98	ug/l	0.00
Spiked Amount			Recovery	=	103.96%	

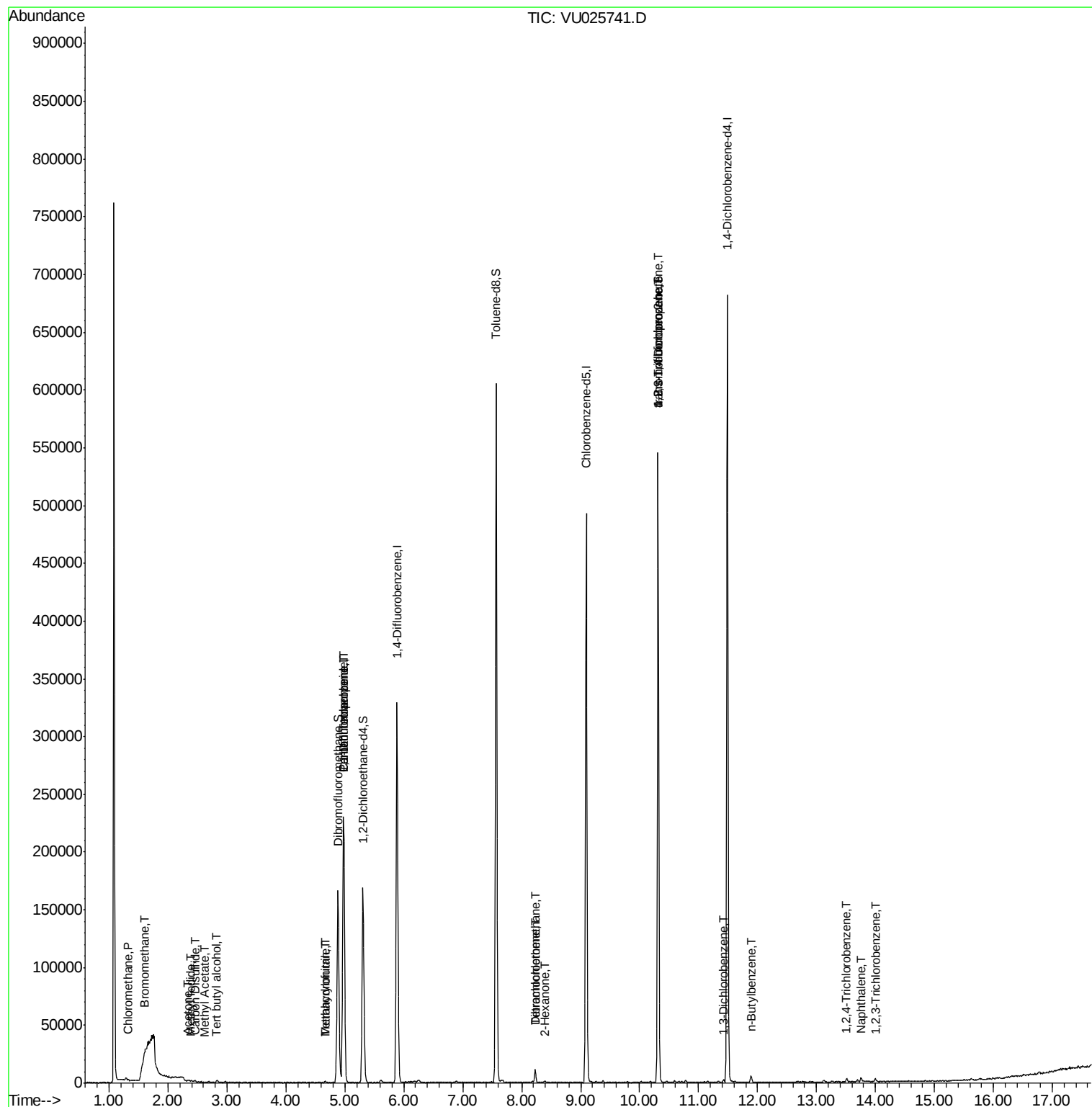
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	942	0.364	ug/l	99
5) Bromomethane	1.60	94	907	0.762	ug/l	95
10) Methyl Iodide	2.39	142	840	8.961	ug/l #	79
11) Tert butyl alcohol	2.82	59	744	1.216	ug/l #	73
13) Acrolein	2.20	56	39	Below Cal	#	1
16) Acetone	2.34	43	493	0.362	ug/l #	58
17) Carbon Disulfide	2.45	76	1813	0.291	ug/l #	93
18) Methyl Acetate	2.63	43	861	0.263	ug/l #	52
29) Tetrahydrofuran	4.66	42	971	0.874	ug/l #	58
31) Cyclohexane	4.97	56	3625	Below Cal	#	24
36) 1,1-Dichloropropene	4.98	75	13218	3.982	ug/l #	51
38) Carbon Tetrachloride	4.98	117	17175	4.568	ug/l #	16
41) Methacrylonitrile	4.66	41	802	0.420	ug/l #	29
59) 2-Hexanone	8.38	43	1129	0.404	ug/l	82
60) Dibromochloromethane	8.23	129	2316	0.784	ug/l #	11
64) Tetrachloroethene	8.23	164	2525	1.008	ug/l	94
76) 1,2,3-Trichloropropane	10.31	75	89171	22.291	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.31	75	89171	55.895	ug/l #	100
87) 1,3-Dichlorobenzene	11.43	146	1270	0.200	ug/l	86
89) n-Butylbenzene	11.90	91	2292	0.217	ug/l	96
93) 1,2,4-Trichlorobenzene	13.51	180	1669	0.398	ug/l	81
95) Naphthalene	13.75	128	5271	1.632	ug/l #	89
96) 1,2,3-Trichlorobenzene	14.00	180	1547	0.369	ug/l	92

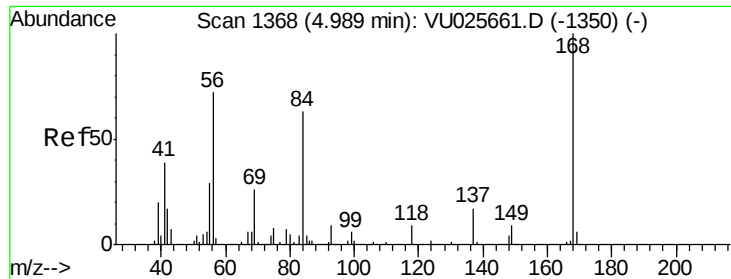
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Jul 27 13:11:52 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1365

Delta R.T. -0.01 min

Lab File: VU025741.D

Acq: 31 Jul 2018 16:11

Instrument :

MSVOA_U

ClientSampleId :

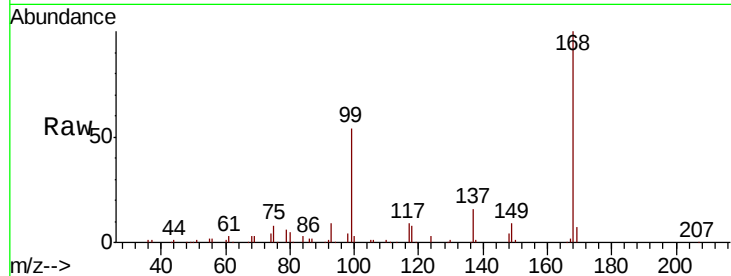
C0AD9

Tot Ion:168 Resp: 179349

Ion Ratio Lower Upper

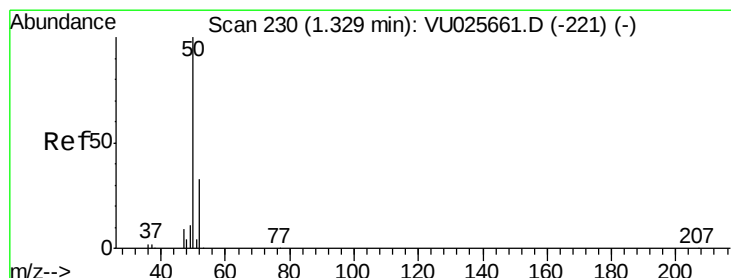
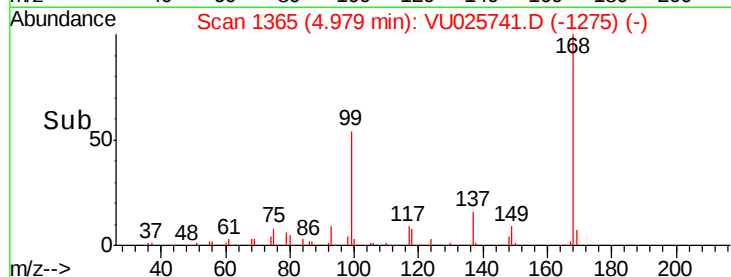
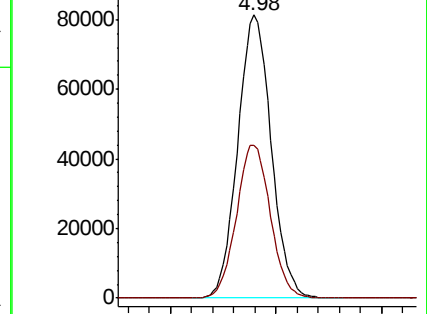
168 100

99 54.2 42.8 64.2



Abundance Ion 167.90 (167.60 to 168.60): VU025661.D (-1350) (-)

Ion 98.90 (98.60 to 99.60): VU025661.D (-1350) (-)



#3

Chloromethane

Concen: 0.364 ug/l

RT: 1.32 min Scan# 228

Delta R.T. -0.01 min

Lab File: VU025741.D

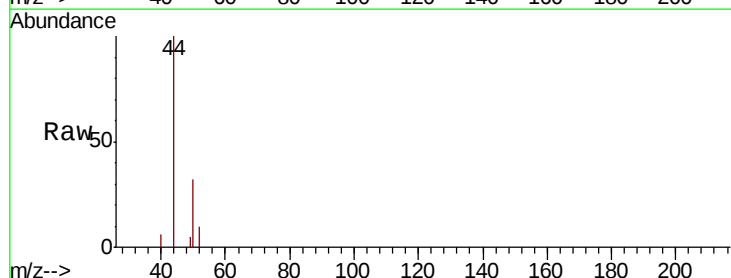
Acq: 31 Jul 2018 16:11

Tgt Ion: 50 Resp: 942

Ion Ratio Lower Upper

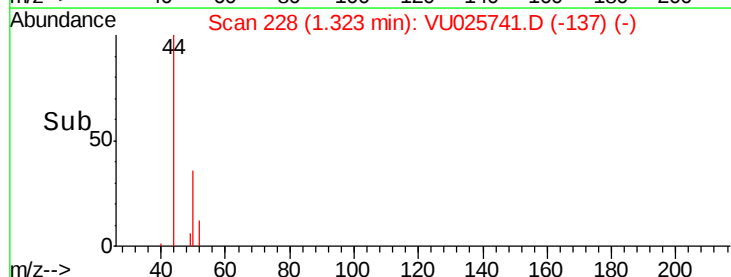
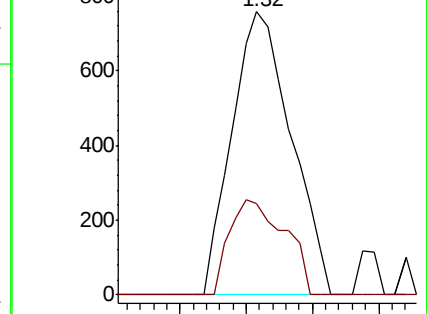
50 100

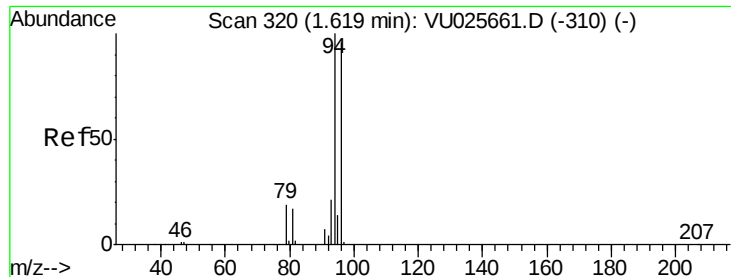
52 32.3 26.5 39.7



Abundance Ion 49.90 (49.60 to 50.60): VU025661.D (-221) (-)

Ion 51.90 (51.60 to 52.60): VU025661.D (-221) (-)





#5

Bromomethane

Concen: 0.762 ug/l

RT: 1.60 min Scan# 314

Delta R.T. -0.02 min

Lab File: VU025741.D

Acq: 31 Jul 2018 16:11

Instrument :

MSVOA_U

ClientSampled :

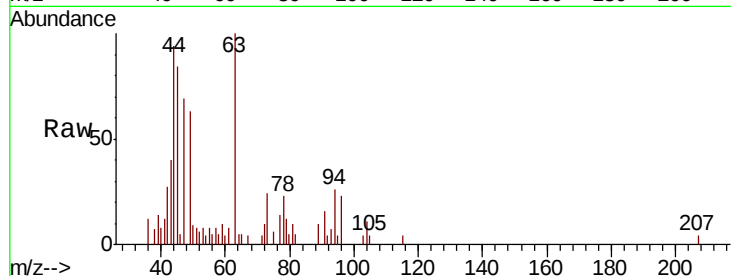
C0AD9

Tot Ion: 94 Resp: 907

Ion Ratio Lower Upper

94 100

96 98.4 75.0 112.4



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0

1.60

800

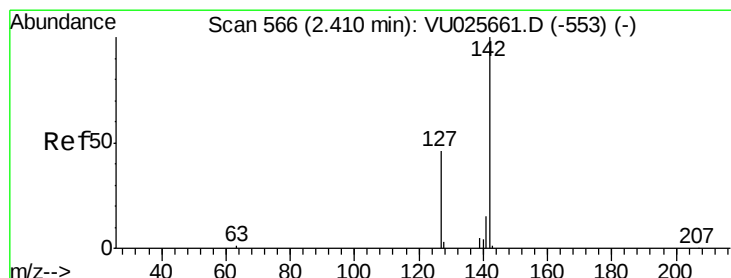
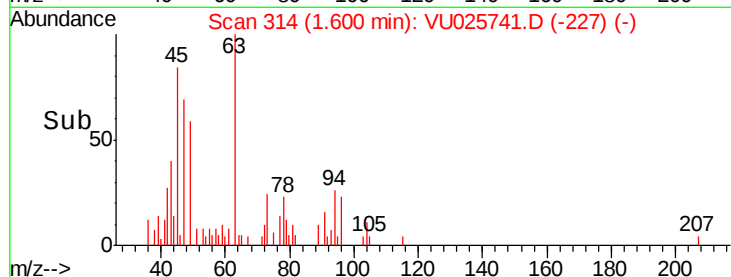
600

400

200

0

Time-->



#10

Methyl Iodide

Concen: 8.961 ug/l

RT: 2.39 min Scan# 561

Delta R.T. -0.02 min

Lab File: VU025741.D

Acq: 31 Jul 2018 16:11

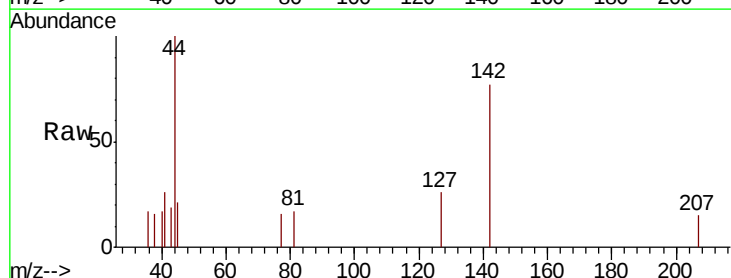
Tgt Ion: 142 Resp: 840

Ion Ratio Lower Upper

142 100

127 34.3 36.5 54.7#

141 0.0 11.4 17.2#



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

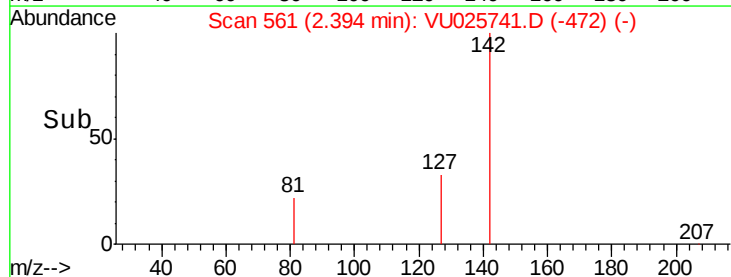
600

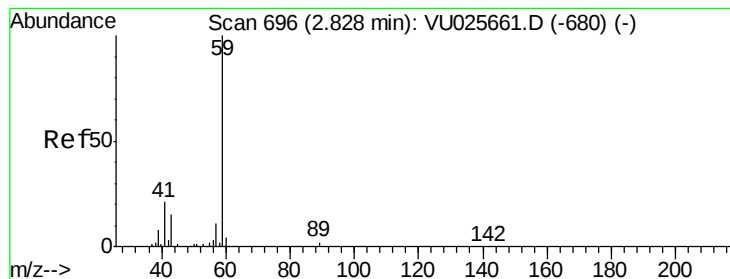
400

200

0

Time-->



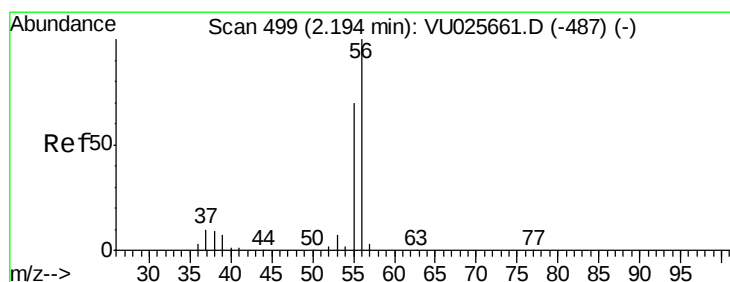
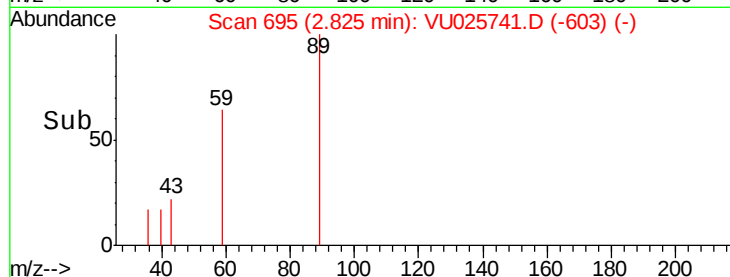
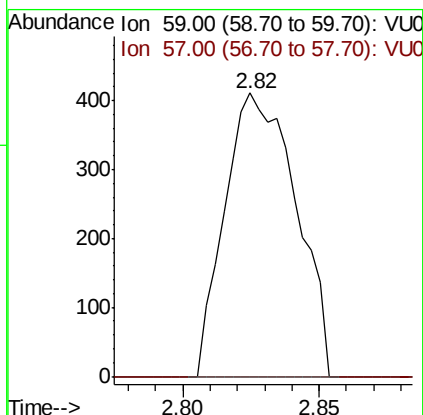
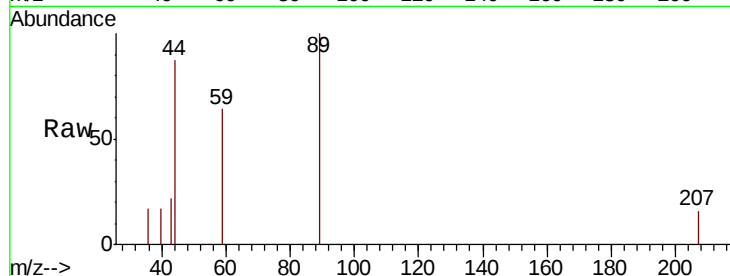


#11

Tert butyl alcohol
 Concen: 1.216 ug/l
 RT: 2.82 min Scan# 695
 Delta R.T. -0.00 min
 Lab File: VU025741.D
 Acq: 31 Jul 2018 16:11

Instrument :
 MSVOA_U
 ClientSampleId :
 C0AD9

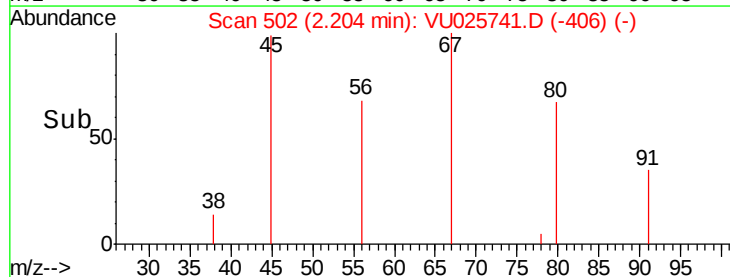
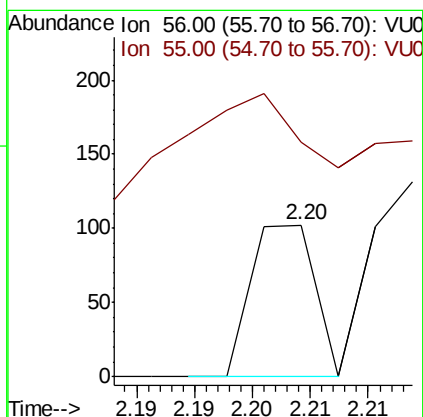
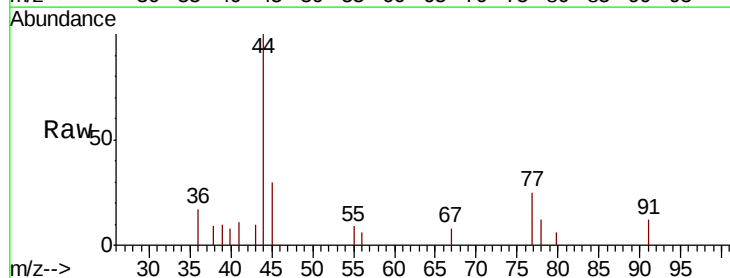
Tot Ion: 59 Resp: 744
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.2 12.2#

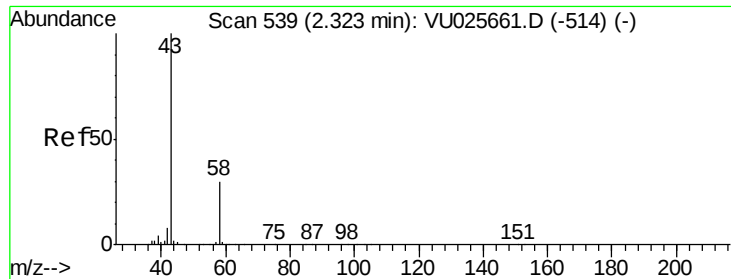


#13

Acrolein
 Concen: Below Cal
 RT: 2.20 min Scan# 502
 Delta R.T. 0.01 min
 Lab File: VU025741.D
 Acq: 31 Jul 2018 16:11

Tgt Ion: 56 Resp: 39
 Ion Ratio Lower Upper
 56 100
 55 184.6 57.2 85.8#





#16

Acetone

Concen: 0.362 ug/l

RT: 2.34 min Scan# 544

Delta R.T. 0.02 min

Lab File: VU025741.D

Acq: 31 Jul 2018 16:11

Instrument :

MSVOA_U

ClientSampled :

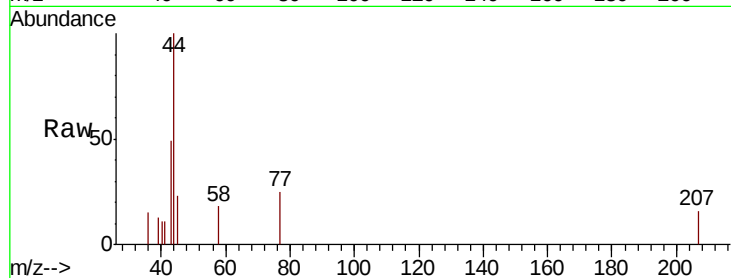
C0AD9

Tot Ion: 43 Resp: 493

Ion Ratio Lower Upper

43 100

58 51.6 23.1 34.7#

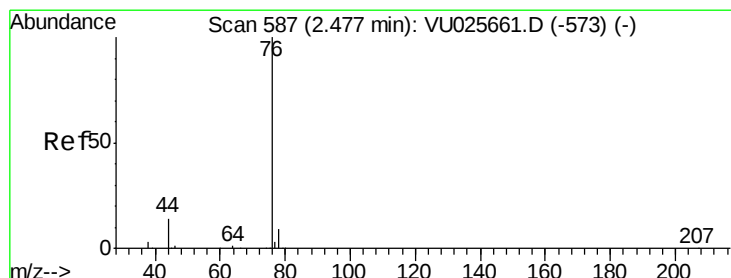
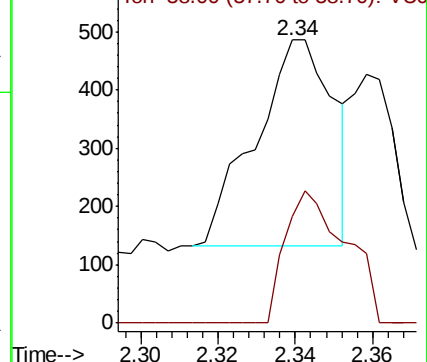
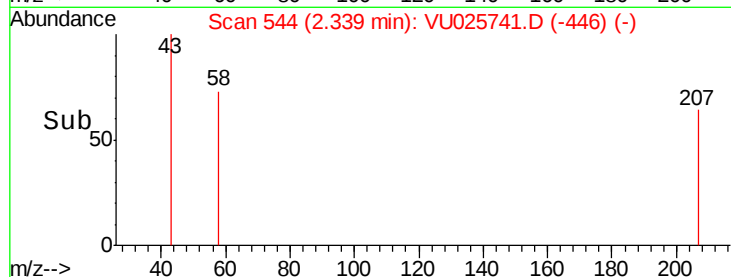


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

2.34

Time-->



#17

Carbon Disulfide

Concen: 0.291 ug/l

RT: 2.45 min Scan# 577

Delta R.T. -0.03 min

Lab File: VU025741.D

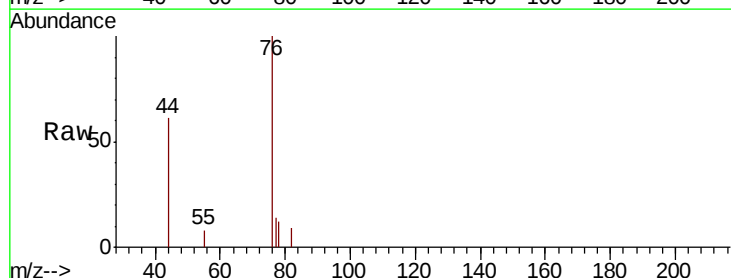
Acq: 31 Jul 2018 16:11

Tgt Ion: 76 Resp: 1813

Ion Ratio Lower Upper

76 100

78 11.8 7.4 11.2#

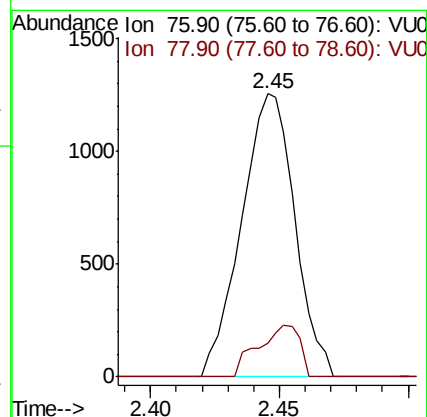
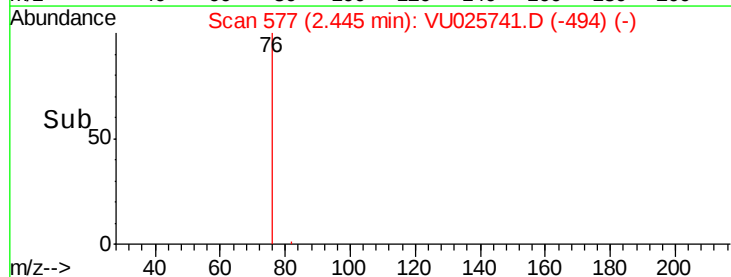


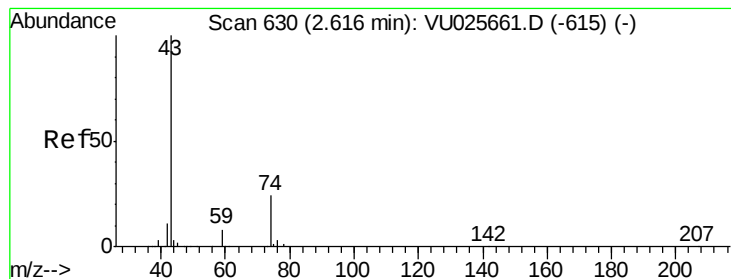
Abundance Ion 75.90 (75.60 to 76.60): VU0

Ion 77.90 (77.60 to 78.60): VU0

2.45

Time-->





#18

Methyl Acetate

Concen: 0.263 ug/l

RT: 2.63 min Scan# 633

Delta R.T. 0.01 min

Lab File: VU025741.D

Acq: 31 Jul 2018 16:11

Instrument :

MSVOA_U

ClientSampleId :

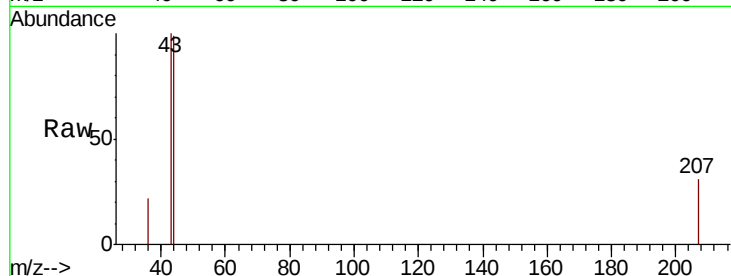
C0AD9

Tot Ion: 43 Resp: 861

Ion Ratio Lower Upper

43 100

74 0.0 18.5 27.7#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0

2.63

400

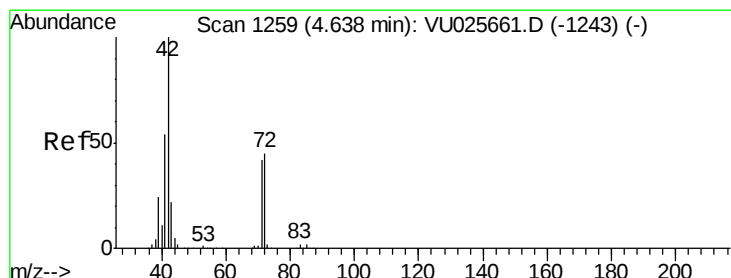
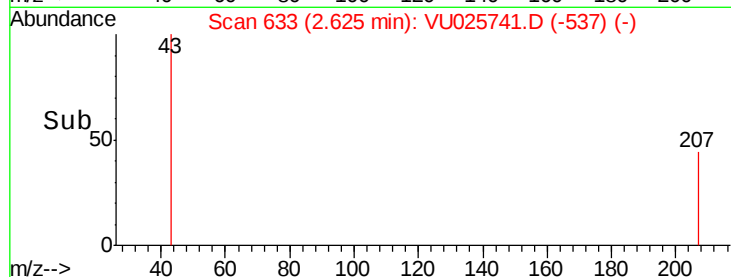
300

200

100

0

Time-->



#29

Tetrahydrofuran

Concen: 0.874 ug/l

RT: 4.66 min Scan# 1266

Delta R.T. 0.02 min

Lab File: VU025741.D

Acq: 31 Jul 2018 16:11

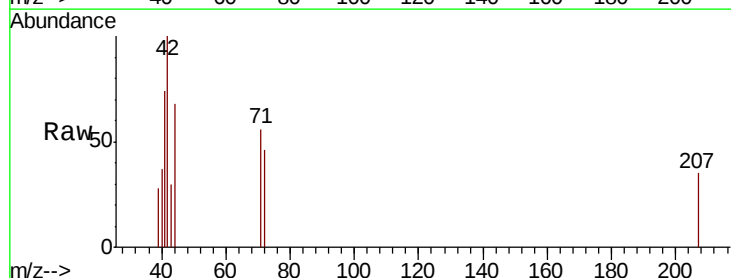
Tgt Ion: 42 Resp: 971

Ion Ratio Lower Upper

42 100

72 11.4 36.7 55.1#

71 23.2 33.9 50.9#



Abundance Ion 42.00 (41.70 to 42.70): VU0

Ion 72.00 (71.70 to 72.70): VU0

Ion 71.00 (70.70 to 71.70): VU0

4.66

400

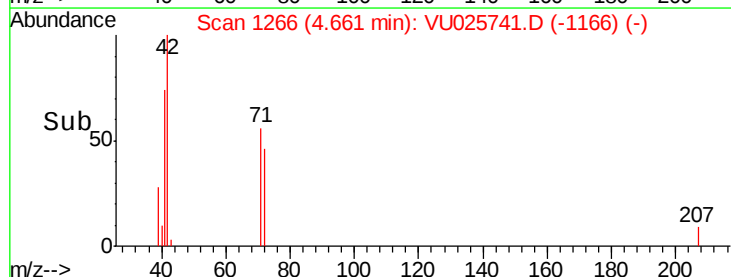
300

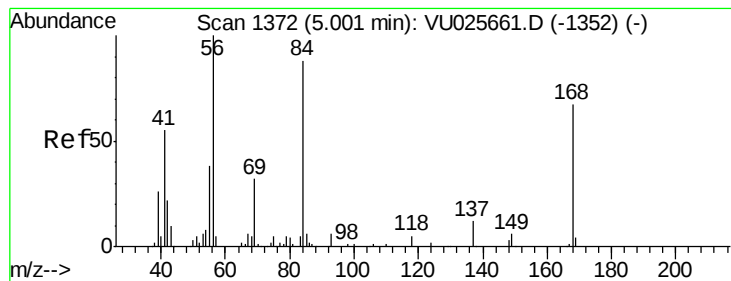
200

100

0

Time-->





#31

Cyclohexane

Concen: Below Cal

RT: 4.97 min Scan# 1363

Delta R.T. -0.03 min

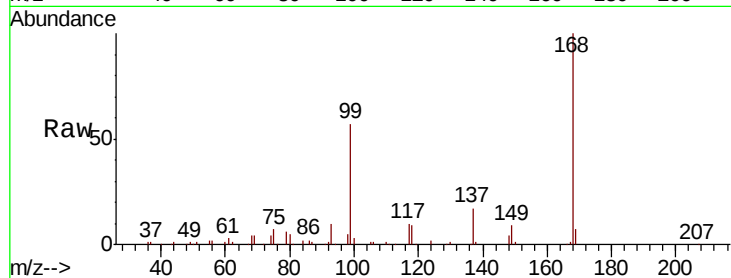
Lab File: VU025741.D

Acq: 31 Jul 2018 16:11

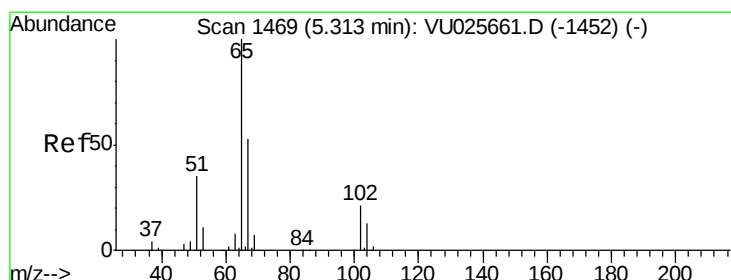
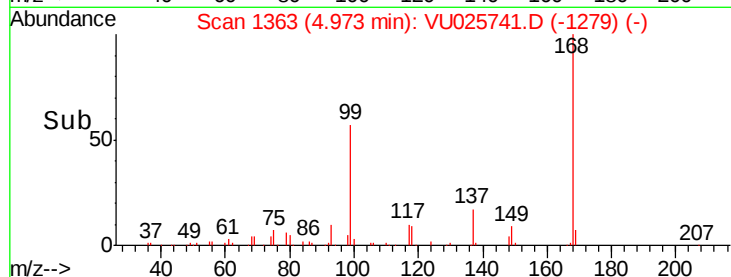
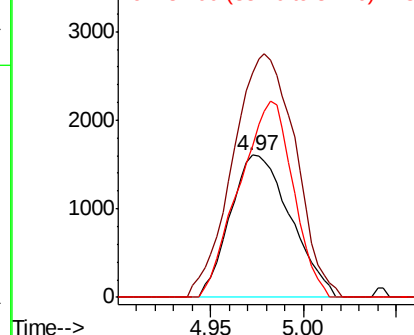
Instrument :
MSVOA_U
ClientSampled :
C0AD9

Tot Ion: 56 Resp: 3625

Ion	Ratio	Lower	Upper
56	100		
69	158.2	26.8	40.2#
84	106.5	69.7	104.5#



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: 49.542 ug/l

RT: 5.31 min Scan# 1467

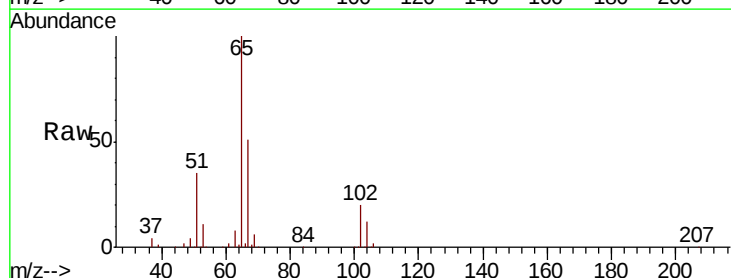
Delta R.T. -0.01 min

Lab File: VU025741.D

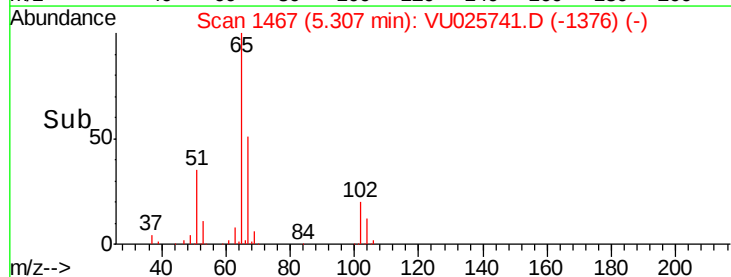
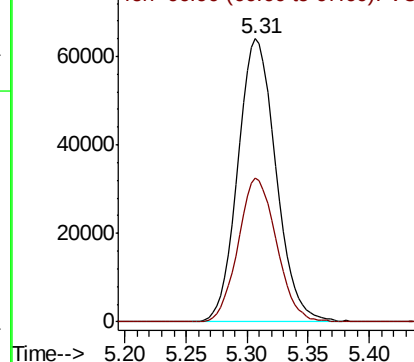
Acq: 31 Jul 2018 16:11

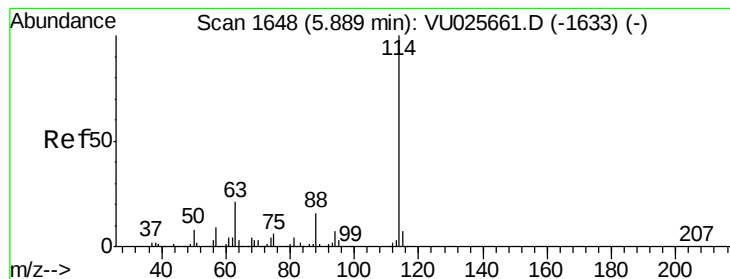
Tgt Ion: 65 Resp: 138443

Ion	Ratio	Lower	Upper
65	100		
67	51.2	0.0	103.6



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





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.89 min Scan# 1647

Delta R.T. -0.00 min

Lab File: VU025741.D

Acq: 31 Jul 2018 16:11

Instrument :

MSVOA_U

ClientSampleId :

C0AD9

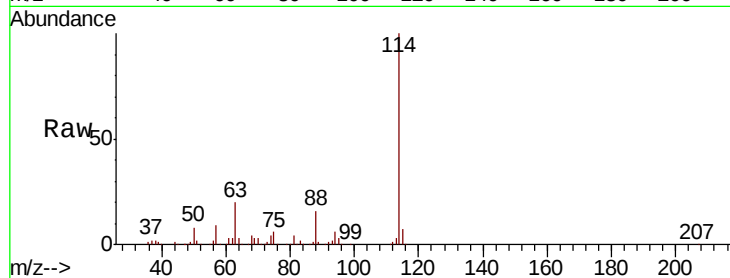
Tot Ion:114 Resp: 284048

Ion Ratio Lower Upper

114 100

63 20.3 0.0 41.6

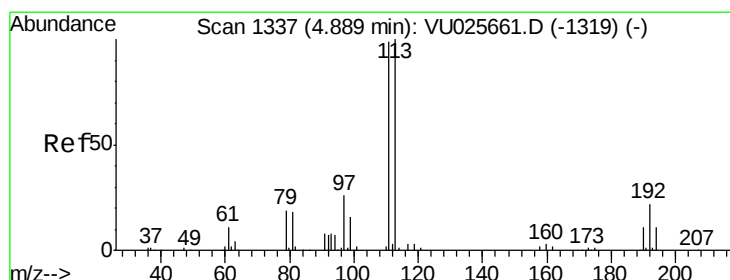
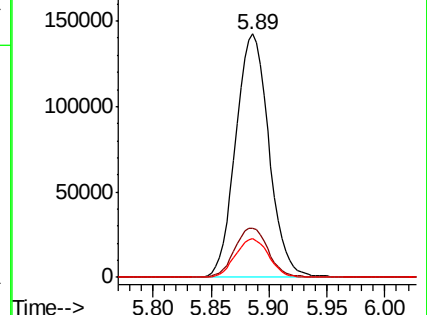
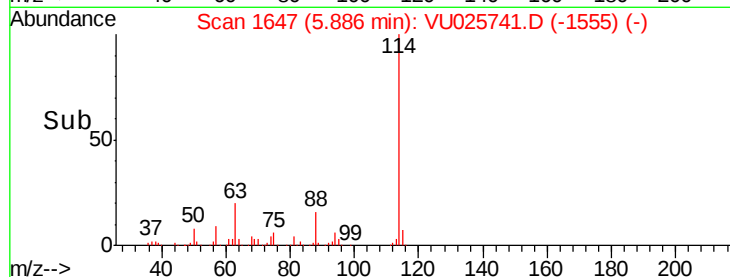
88 15.7 0.0 32.4



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: 47.576 ug/l

RT: 4.88 min Scan# 1335

Delta R.T. -0.01 min

Lab File: VU025741.D

Acq: 31 Jul 2018 16:11

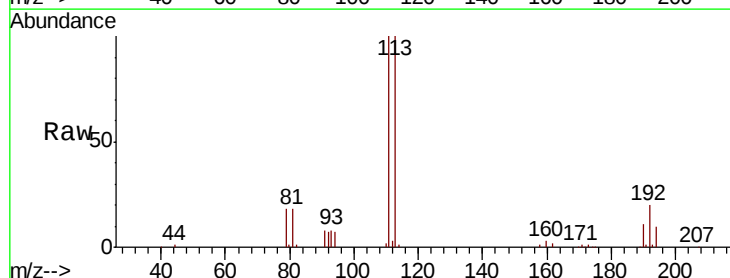
Tgt Ion:113 Resp: 117536

Ion Ratio Lower Upper

113 100

111 100.7 81.7 122.5

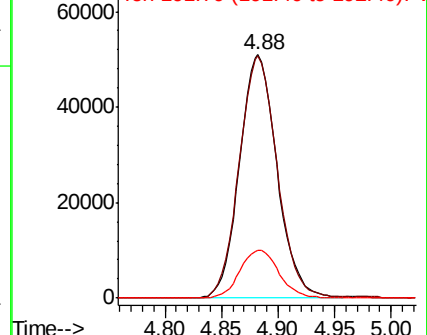
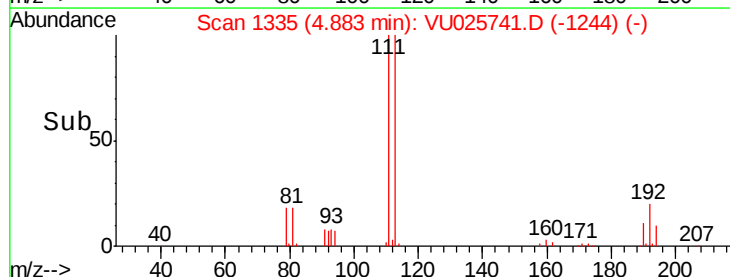
192 20.4 17.1 25.7

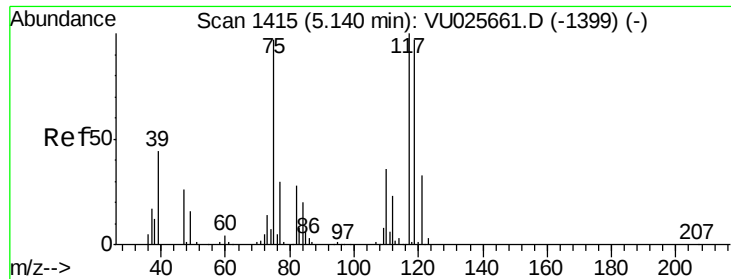


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

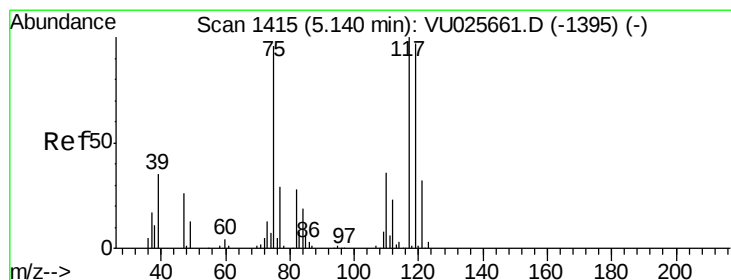
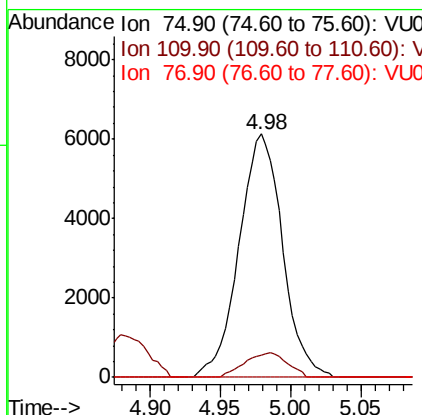
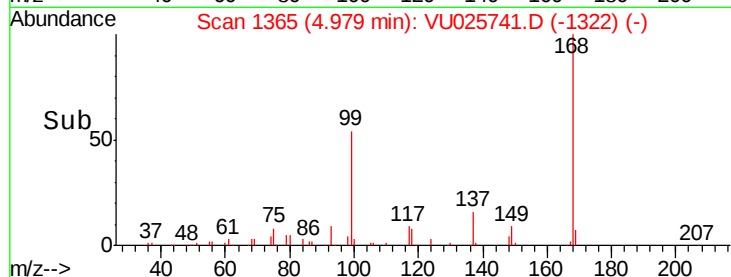
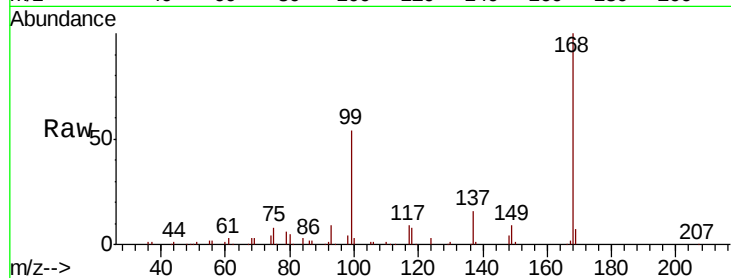




#36
 1,1-Dichloropropene
 Concen: 3.982 ug/l
 RT: 4.98 min Scan# 1365
 Delta R.T. -0.16 min
 Lab File: VU025741.D
 Acq: 31 Jul 2018 16:11

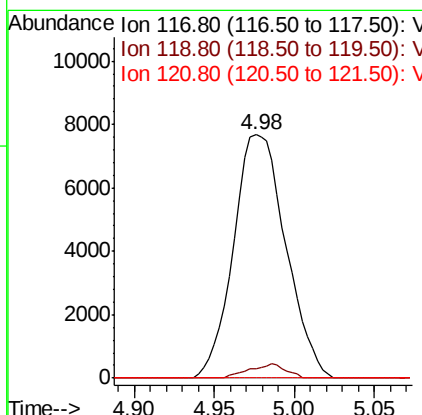
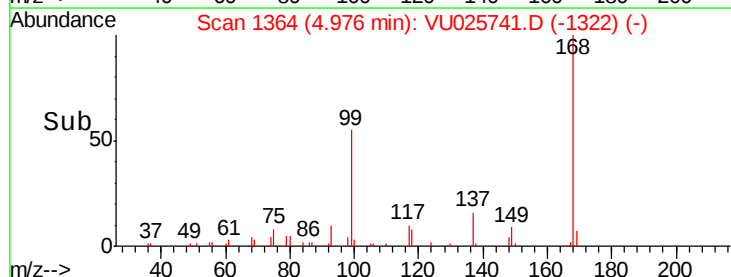
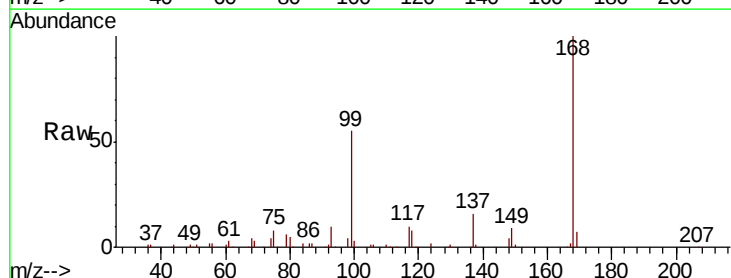
Instrument :
 MSVOA_U
 ClientSampled :
 C0AD9

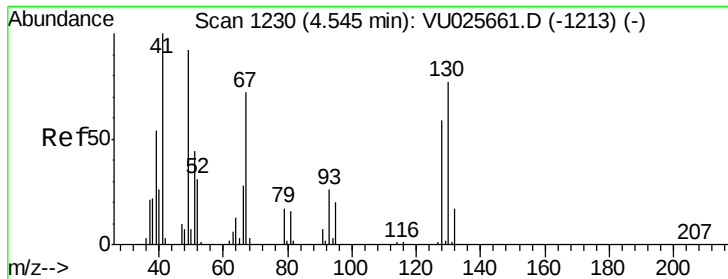
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.9	17.6	52.9#
77	0.0	24.4	36.6#



#38
 Carbon Tetrachloride
 Concen: 4.568 ug/l
 RT: 4.98 min Scan# 1364
 Delta R.T. -0.16 min
 Lab File: VU025741.D
 Acq: 31 Jul 2018 16:11

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.1	75.7	113.5#
121	0.0	24.6	36.8#

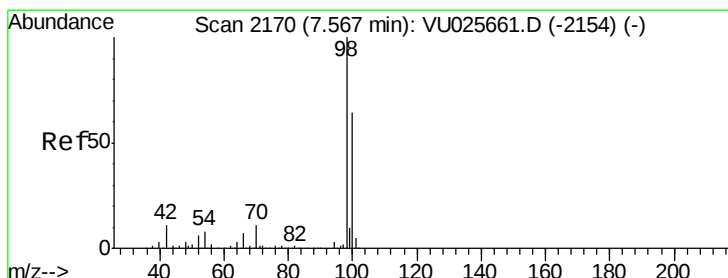
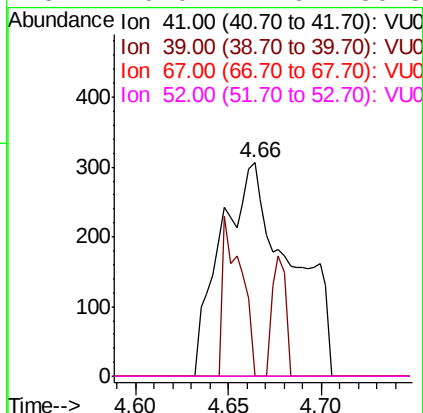
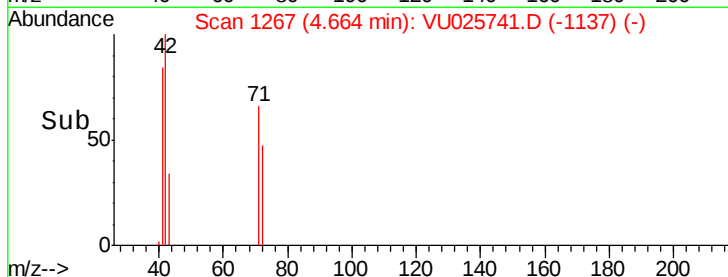
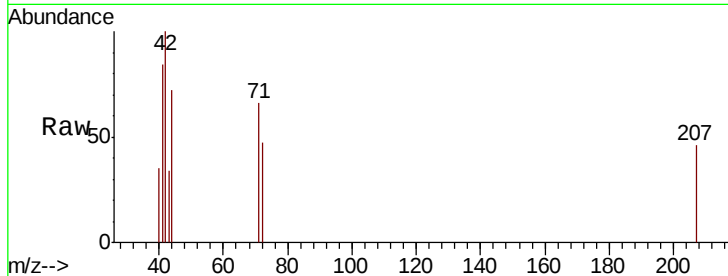




#41
Methacrylonitrile
Concen: 0.420 ug/l
RT: 4.66 min Scan# 1267
Delta R.T. 0.12 min
Lab File: VU025741.D
Acq: 31 Jul 2018 16:11

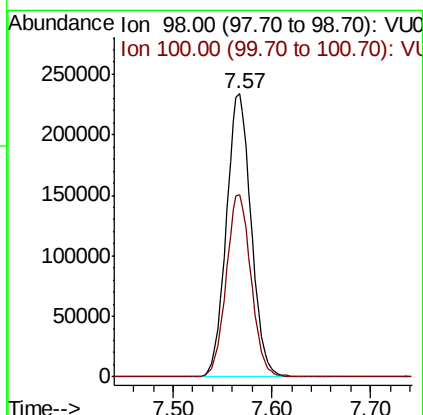
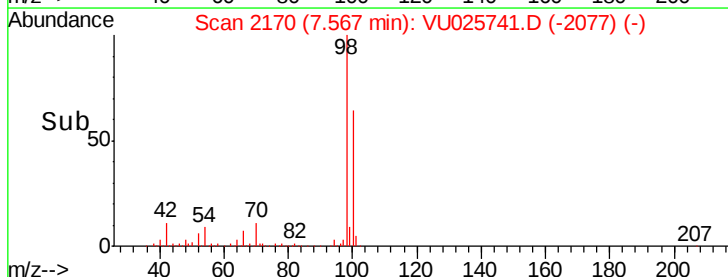
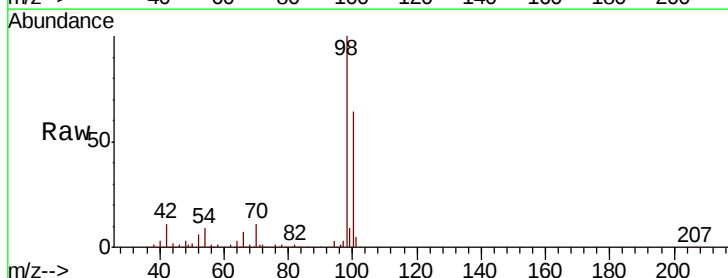
Instrument :
MSVOA_U
ClientSampleId :
C0AD9

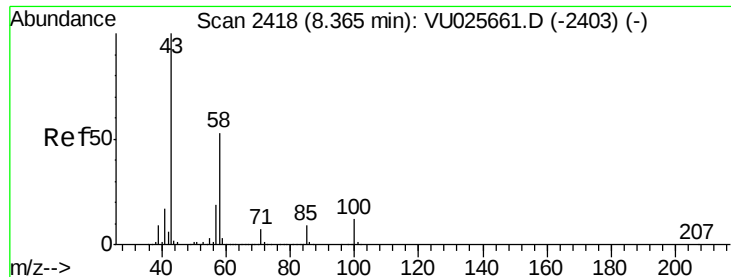
Tot Ion: 41 Resp: 802
Ion Ratio Lower Upper
41 100
39 10.8 44.4 66.6#
67 0.0 56.0 84.0#
52 0.0 24.6 36.8#



#50
Toluene-d8
Concen: 47.655 ug/l
RT: 7.57 min Scan# 2170
Delta R.T. 0.00 min
Lab File: VU025741.D
Acq: 31 Jul 2018 16:11

Tgt Ion: 98 Resp: 411988
Ion Ratio Lower Upper
98 100
100 64.4 51.1 76.7

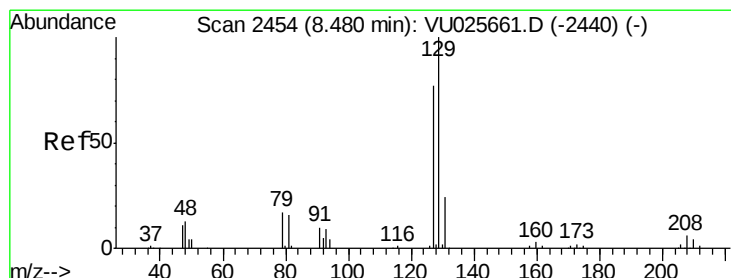
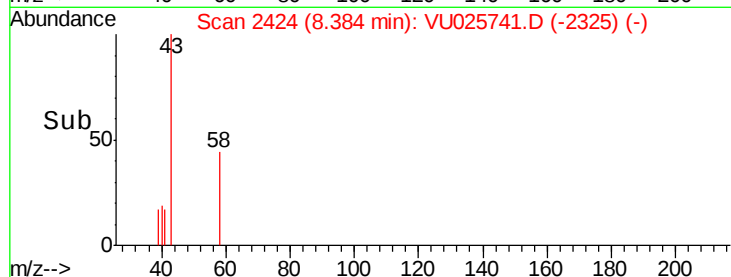
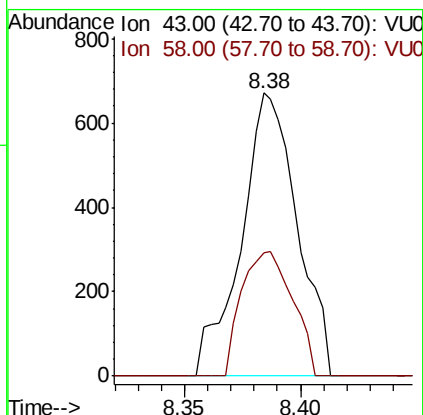
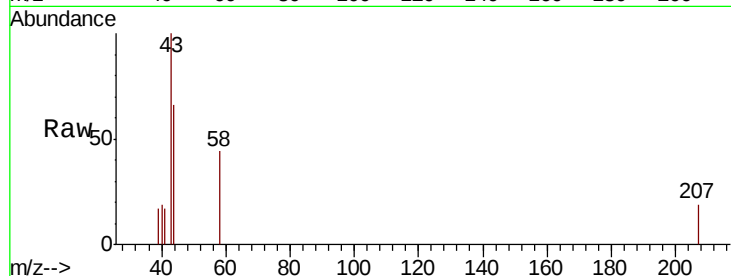




#59
2-Hexanone
Concen: 0.404 ug/l
RT: 8.38 min Scan# 2424
Delta R.T. 0.02 min
Lab File: VU025741.D
Acq: 31 Jul 2018 16:11

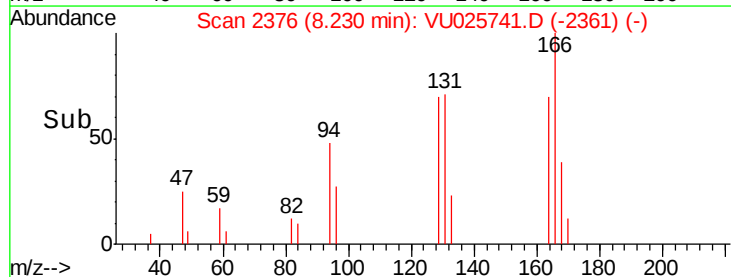
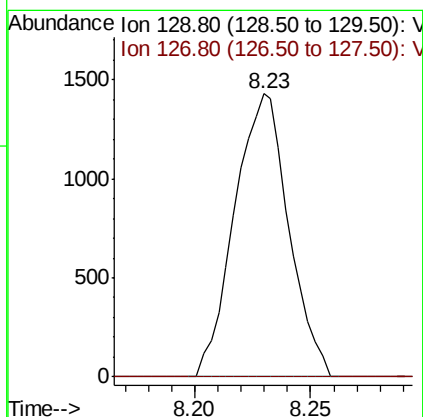
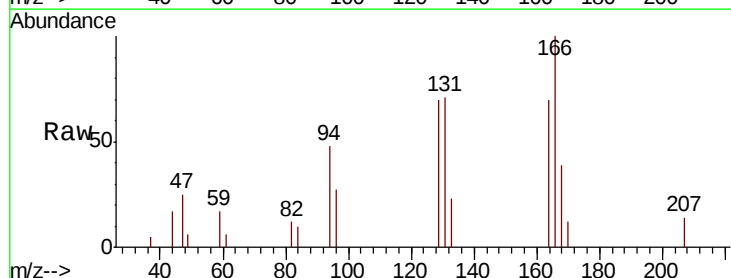
Instrument :
MSVOA_U
ClientSampleId :
C0AD9

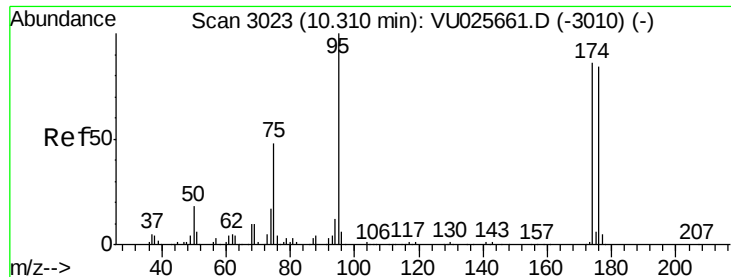
Tot Ion: 43 Resp: 1129
Ion Ratio Lower Upper
43 100
58 39.9 26.2 78.5



#60
Dibromochloromethane
Concen: 0.784 ug/l
RT: 8.23 min Scan# 2376
Delta R.T. -0.25 min
Lab File: VU025741.D
Acq: 31 Jul 2018 16:11

Tgt Ion: 129 Resp: 2316
Ion Ratio Lower Upper
129 100
127 0.0 38.6 115.8#

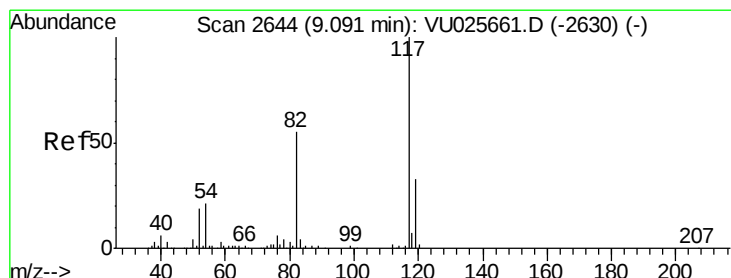
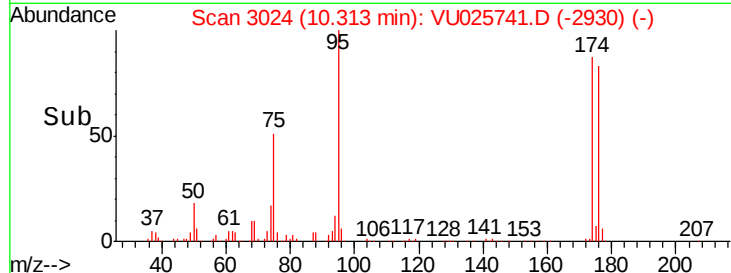
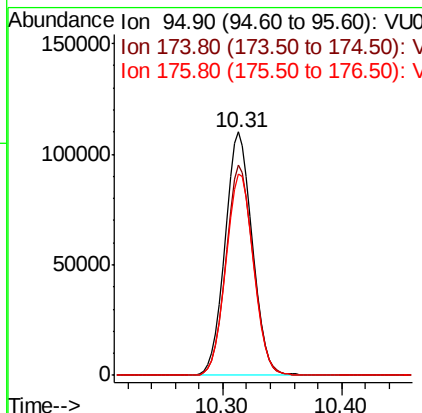
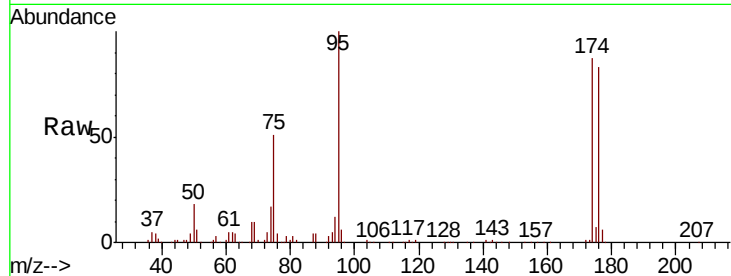




#62
4-Bromofluorobenzene
Concen: 51.982 ug/l
RT: 10.31 min Scan# 3024
Delta R.T. 0.00 min
Lab File: VU025741.D
Acq: 31 Jul 2018 16:11

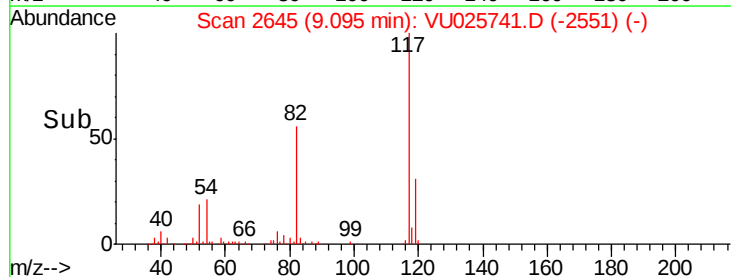
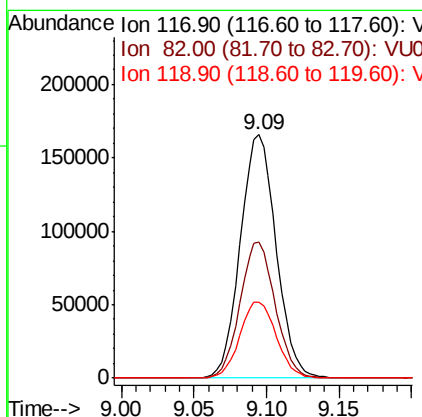
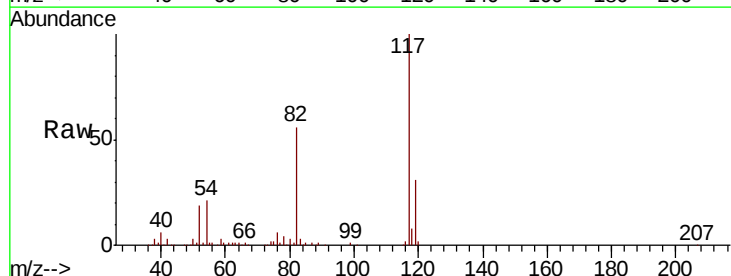
Instrument :
MSVOA_U
ClientSampled :
C0AD9

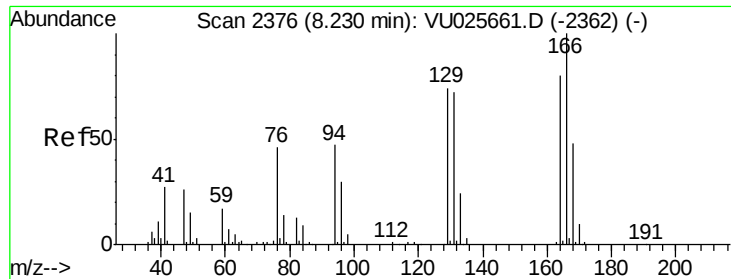
Tot Ion: 95 Resp: 174428
Ion Ratio Lower Upper
95 100
174 86.7 0.0 172.2
176 84.0 0.0 162.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VU025741.D
Acq: 31 Jul 2018 16:11

Tgt Ion: 117 Resp: 284520
Ion Ratio Lower Upper
117 100
82 56.0 46.0 69.0
119 31.2 26.0 39.0

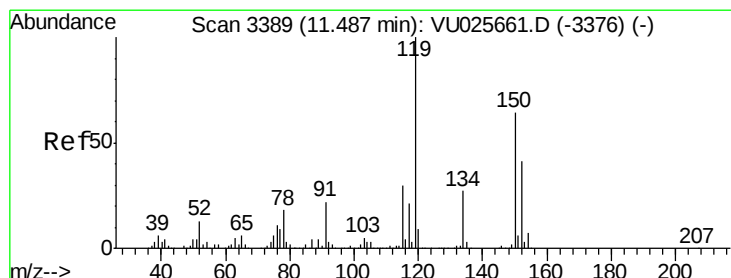
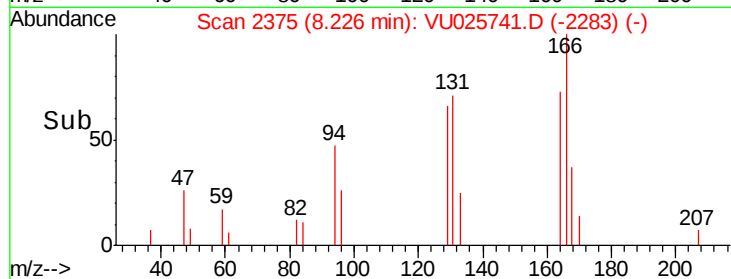
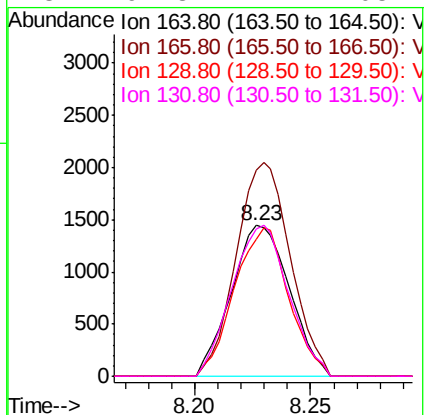
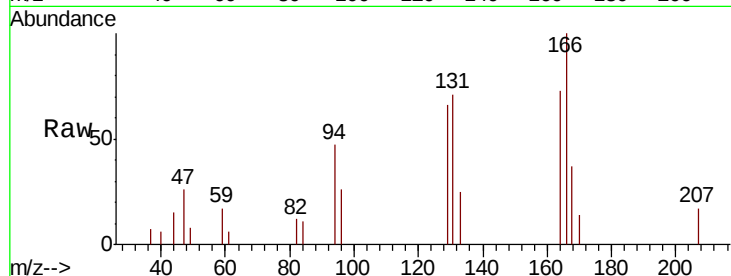




#64
Tetrachloroethene
Concen: 1.008 ug/l
RT: 8.23 min Scan# 2375
Delta R.T. -0.00 min
Lab File: VU025741.D
Acq: 31 Jul 2018 16:11

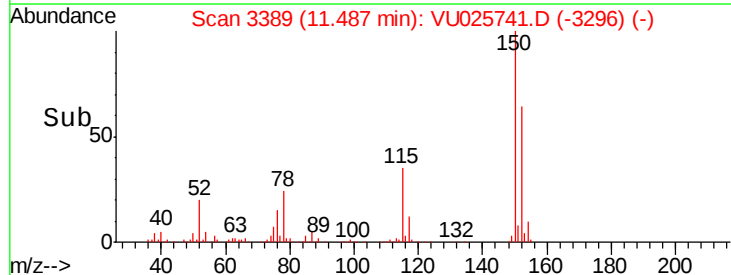
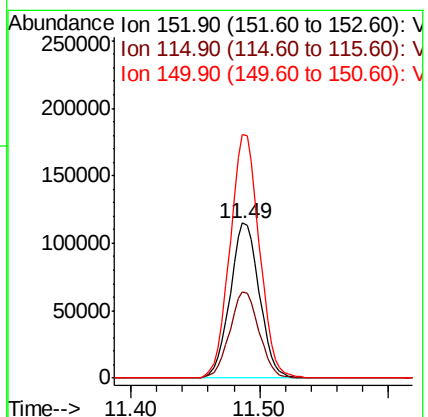
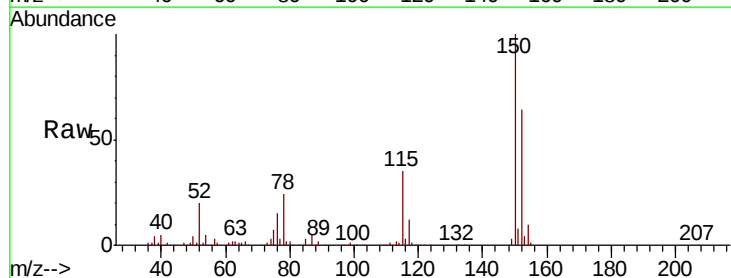
Instrument :
MSVOA_U
ClientSampleId :
C0AD9

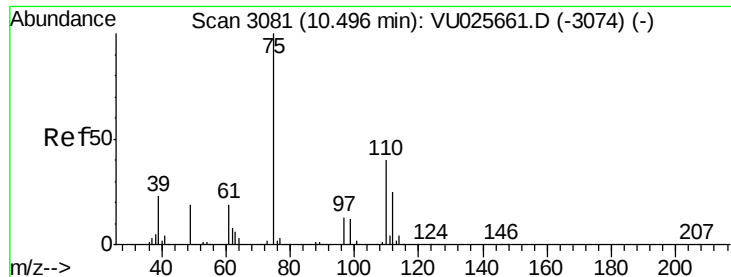
Tot Ion:164 Resp: 2525
Ion Ratio Lower Upper
164 100
166 136.9 101.1 151.7
129 90.8 73.0 109.6
131 97.3 72.1 108.1



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.49 min Scan# 3389
Delta R.T. 0.00 min
Lab File: VU025741.D
Acq: 31 Jul 2018 16:11

Tgt Ion:152 Resp: 181556
Ion Ratio Lower Upper
152 100
115 55.7 40.1 120.3
150 157.0 0.0 351.4

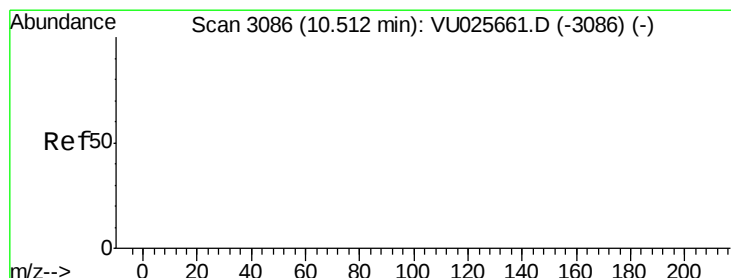
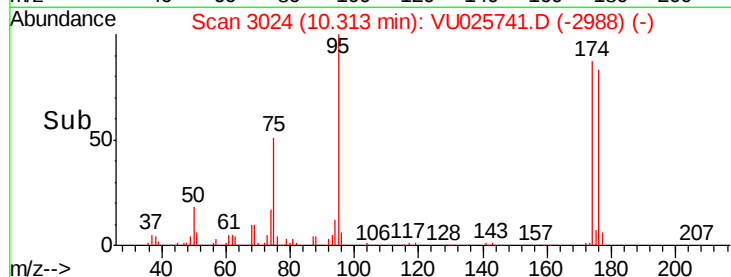
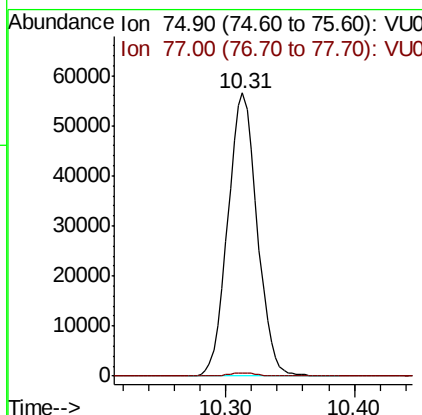
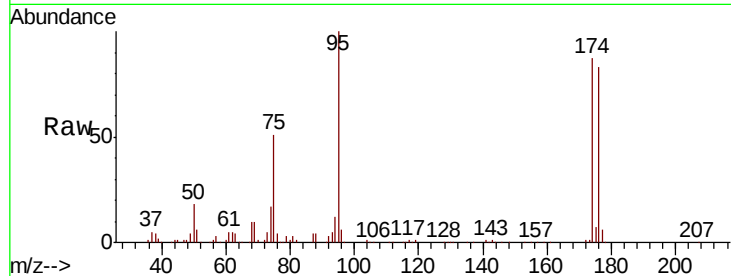




#76
 1,2,3-Trichloropropane
 Concen: 22.291 ug/l
 RT: 10.31 min Scan# 3024
 Delta R.T. -0.18 min
 Lab File: VU025741.D
 Acq: 31 Jul 2018 16:11

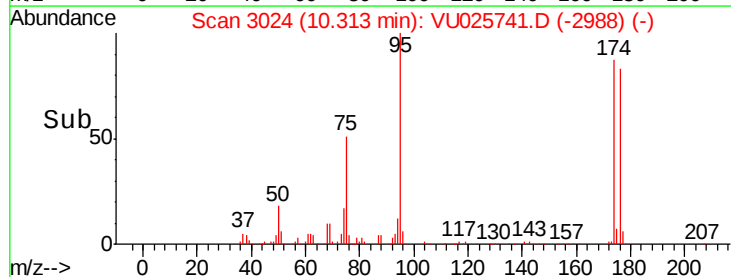
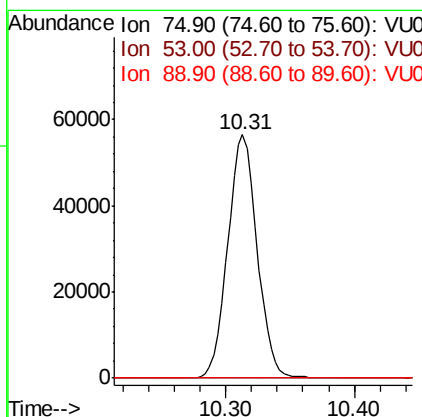
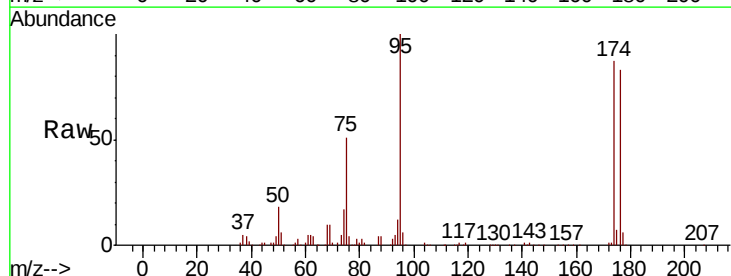
Instrument :
 MSVOA_U
 ClientSampled :
 C0AD9

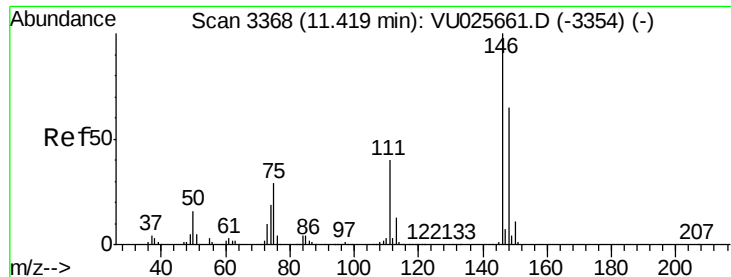
Tot Ion: 75 Resp: 89171
 Ion Ratio Lower Upper
 75 100
 77 1.0 20.4 61.3#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 55.895 ug/l
 RT: 10.31 min Scan# 3024
 Delta R.T. -0.18 min
 Lab File: VU025741.D
 Acq: 31 Jul 2018 16:11

Tgt Ion: 75 Resp: 89171
 Ion Ratio Lower Upper
 75 100
 53 0.0 0.0 0.0
 89 0.0 0.0 0.0





#87

1,3-Dichlorobenzene

Concen: 0.200 ug/l

RT: 11.43 min Scan# 3370

Delta R.T. 0.01 min

Lab File: VU025741.D

Acq: 31 Jul 2018 16:11

Instrument :

MSVOA_U

ClientSampled :

C0AD9

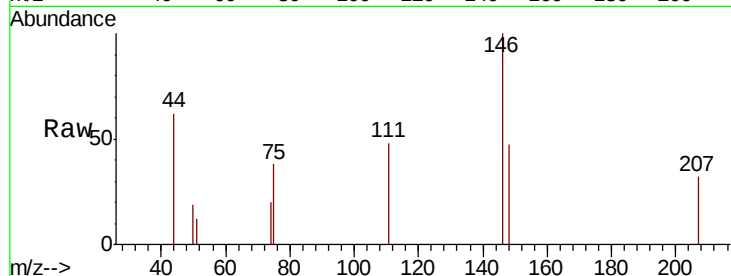
Tot Ion:146 Resp: 1270

Ion Ratio Lower Upper

146 100

111 33.2 19.7 59.1

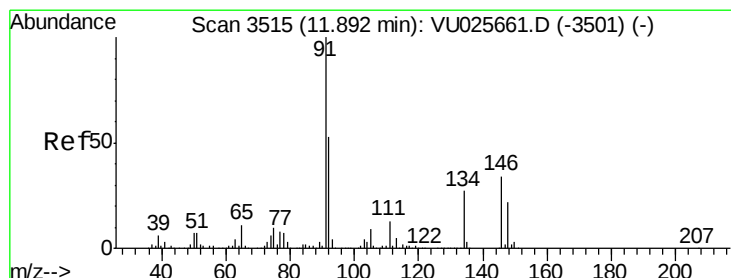
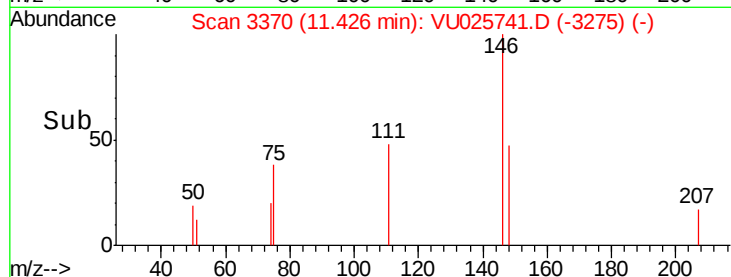
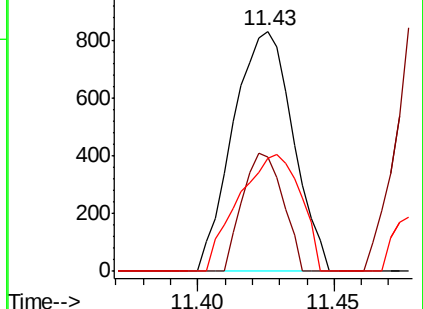
148 50.7 32.1 96.3



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#89

n-Butylbenzene

Concen: 0.217 ug/l

RT: 11.90 min Scan# 3516

Delta R.T. 0.00 min

Lab File: VU025741.D

Acq: 31 Jul 2018 16:11

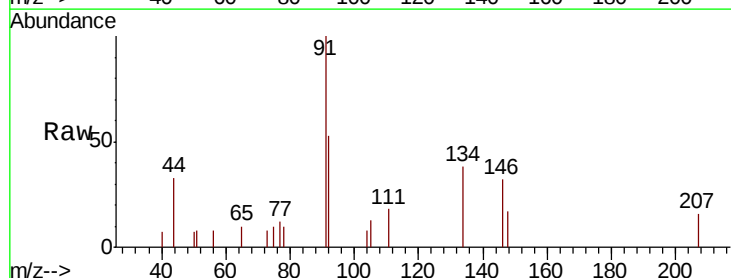
Tgt Ion: 91 Resp: 2292

Ion Ratio Lower Upper

91 100

92 50.0 26.5 79.5

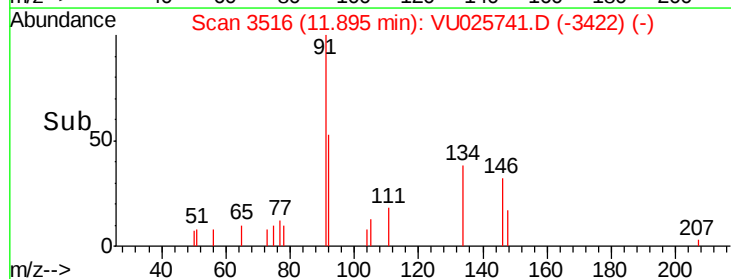
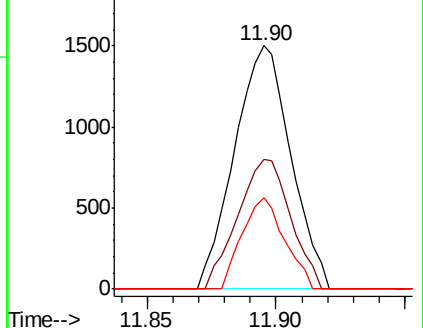
134 28.4 13.6 40.7

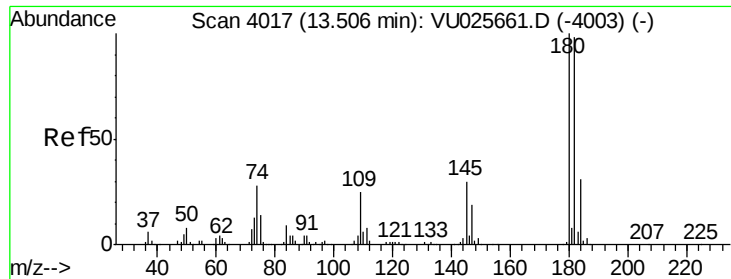


Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 92.00 (91.70 to 92.70): VU0

Ion 134.00 (133.70 to 134.70): V

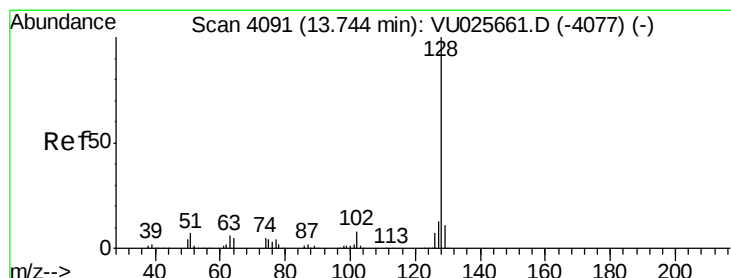
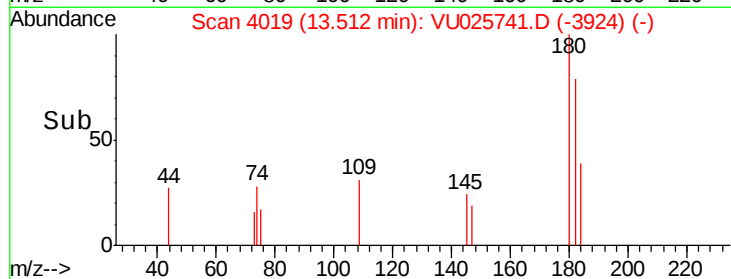
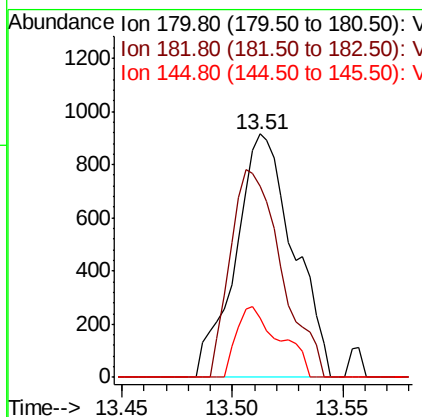
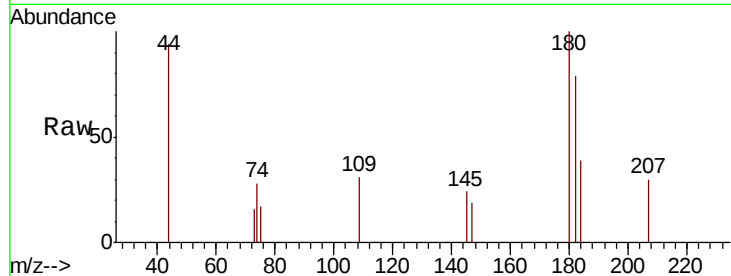




#93
 1,2,4-Trichlorobenzene
 Concen: 0.398 ug/l
 RT: 13.51 min Scan# 4019
 Delta R.T. 0.01 min
 Lab File: VU025741.D
 Acq: 31 Jul 2018 16:11

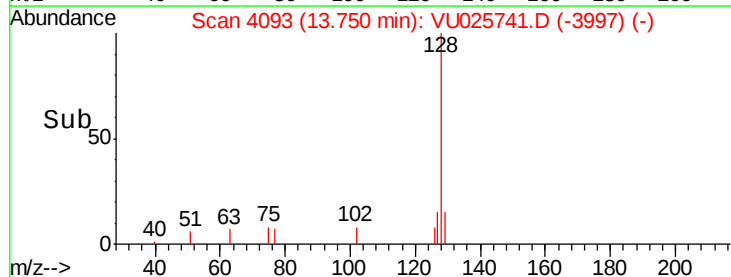
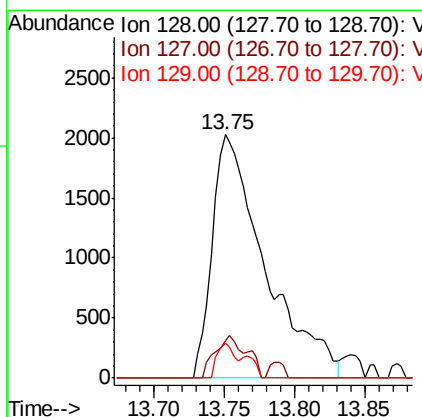
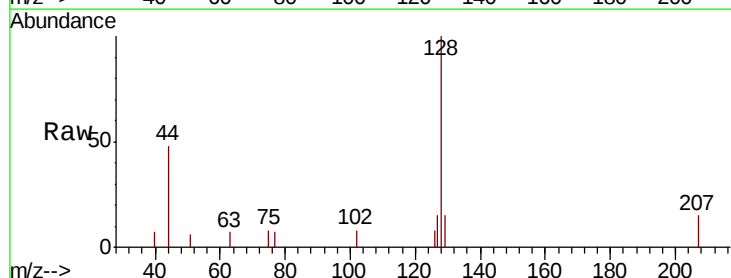
Instrument :
 MSVOA_U
 ClientSampleId :
 C0AD9

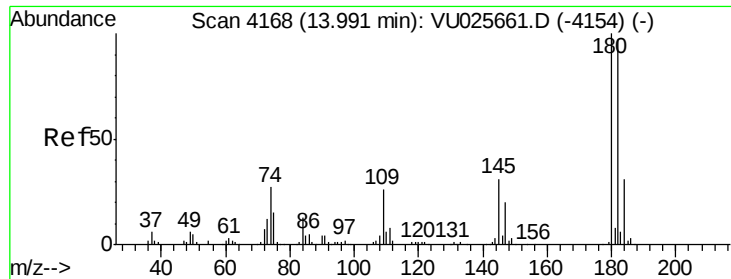
Tot Ion:180 Resp: 1669
 Ion Ratio Lower Upper
 180 100
 182 75.3 47.3 141.9
 145 21.7 14.9 44.7



#95
 Naphthalene
 Concen: 1.632 ug/l
 RT: 13.75 min Scan# 4093
 Delta R.T. 0.01 min
 Lab File: VU025741.D
 Acq: 31 Jul 2018 16:11

Tgt Ion:128 Resp: 5271
 Ion Ratio Lower Upper
 128 100
 127 10.3 10.5 15.7#
 129 4.8 8.3 12.5#

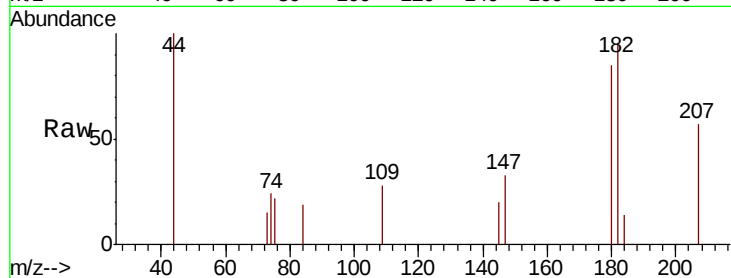




#96
 1,2,3-Trichlorobenzene
 Concen: 0.369 ug/l
 RT: 14.00 min Scan# 4170
 Delta R.T. 0.01 min
 Lab File: VU025741.D
 Acq: 31 Jul 2018 16:11

Instrument :
 MSVOA_U
 ClientSampleId :
 C0AD9

Tot Ion	Ratio	Lower	Upper
180	100		
182	93.5	47.8	143.3
145	16.5	15.6	46.8



Abundance

Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

