

Data File : VU029318.D
Acq On : 30 Jan 2019 16:12
Operator : JC/SP
Sample : K1161-07DL 5X
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WSDL

Quant Time: Jan 31 06:25:31 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\524U012919DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Wed Jan 30 09:13:14 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	5.74	96	7457	1.00	ug/l	0.00

System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.31	95	2692	0.93	ug/l	0.00
Spiked Amount 1.000			Recovery	=	93.00%	
68) 1,2-Dichlorobenzene-d4	11.86	152	2779	0.96	ug/l	0.00
Spiked Amount 1.000			Recovery	=	96.00%	

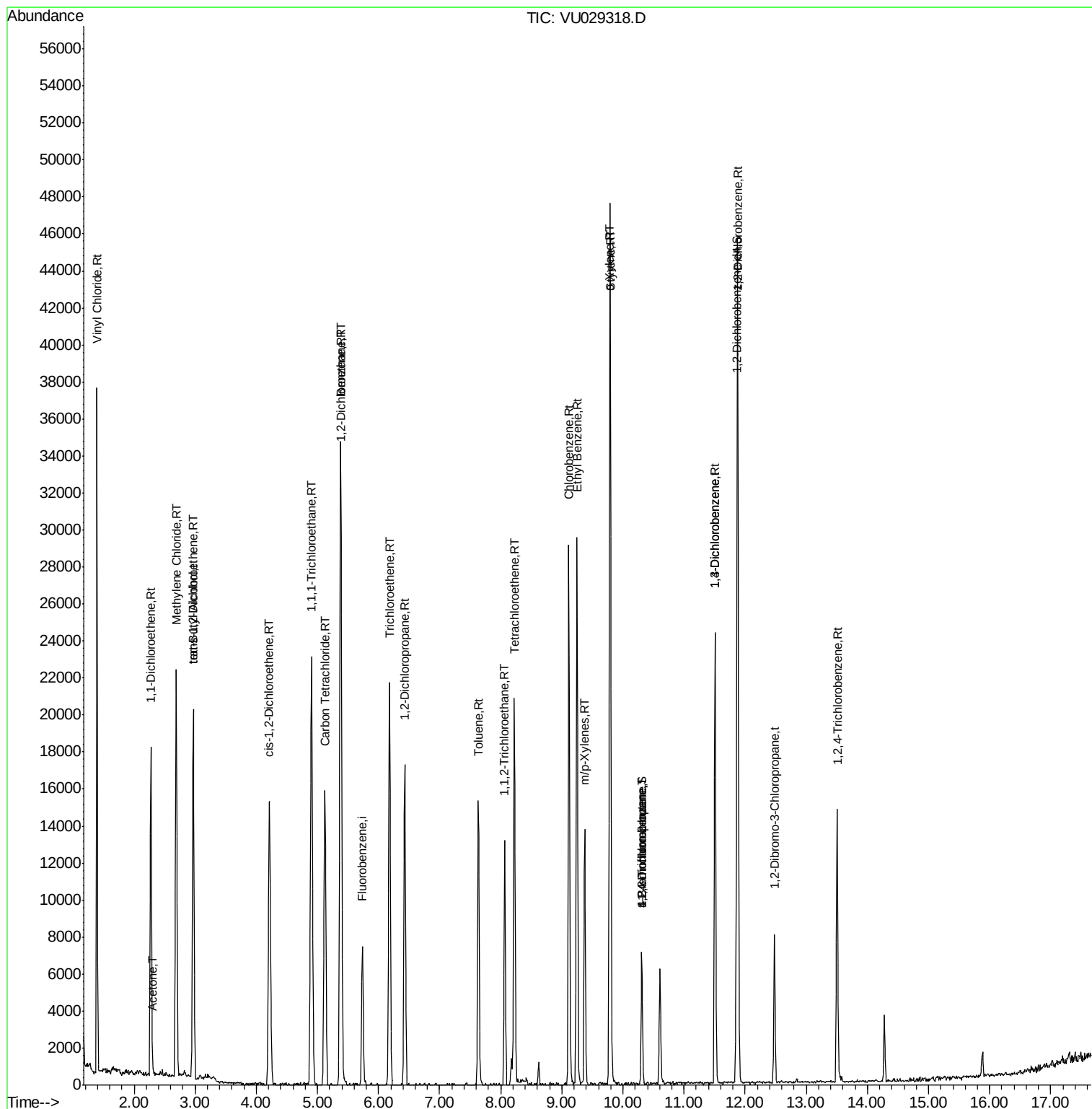
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.39	62	20391	7.100	ug/l	100
9) 1,1-Dichloroethene	2.28	96	4586	2.226	ug/l	97
13) Acetone	2.31	43	162	0.211	ug/l #	51
15) Methylene Chloride	2.69	84	8091	2.973	ug/l	94
16) trans-1,2-Dichloroethene	2.97	96	6407	2.766	ug/l	99
22) cis-1,2-Dichloroethene	4.21	96	7544	3.091	ug/l	88
24) tert-Butyl Alcohol	2.97	59	429	1.654	ug/l #	71
28) 1,1,1-Trichloroethane	4.90	97	17934	3.823	ug/l	98
30) Carbon Tetrachloride	5.12	117	11608	2.831	ug/l	96
35) Benzene	5.38	78	31515	3.313	ug/l	98
36) 1,2-Dichloroethane	5.40	62	2503	0.636	ug/l #	84
37) Trichloroethene	6.18	130	7583	3.167	ug/l	94
38) 1,2-Dichloropropane	6.43	63	6093	2.341	ug/l	97
46) t-1,4-Dichloro-2-butene	10.31	75	1665	2.750	ug/l #	13
49) Toluene	7.63	92	6648	1.205	ug/l	100
52) 1,1,2-Trichloroethane	8.06	97	3885	2.283	ug/l	94
58) Tetrachloroethene	8.22	164	4456	1.961	ug/l	97
59) Chlorobenzene	9.12	112	15136	2.523	ug/l	98
63) Ethyl Benzene	9.25	91	20386	1.944	ug/l	99
64) m/p-Xylenes	9.37	106	3893	0.988	ug/l	99
65) o-Xylene	9.78	106	2177	0.576	ug/l	92
66) Styrene	9.79	104	20835	3.201	ug/l	88
71) 1,2,3-Trichloropropane	10.31	75	1665	0.863	ug/l #	49
82) 1,3-Dichlorobenzene	11.51	146	9830	1.838	ug/l	98
83) 1,4-Dichlorobenzene	11.51	146	9830	1.824	ug/l	99
85) 1,2-Dichlorobenzene	11.88	146	16980	3.507	ug/l	99
86) 1,2-Dibromo-3-Chloropropan	12.48	75	120	0.287	ug/l #	11
87) 1,2,4-Trichlorobenzene	13.50	180	5610	1.713	ug/l	95

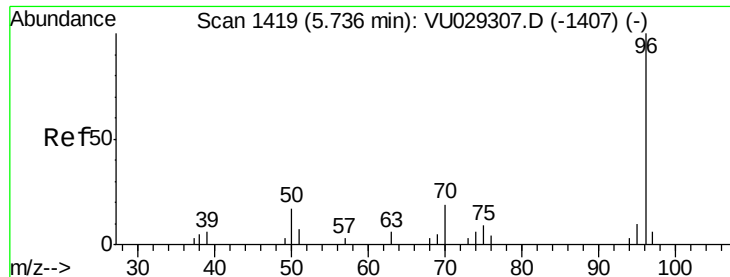
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Fluorobenzene

Concen: 1.000 ug/l

RT: 5.74 min Scan# 1419

Delta R.T. -0.00 min

Lab File: VU029318.D

Acq: 30 Jan 2019 16:12

Instrument :

MSVOA_U

ClientSampleId :

PT-RVOA-WSDL

Tgt Ion: 96 Resp: 7457

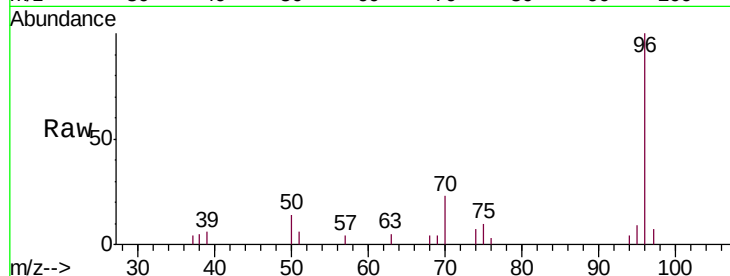
Ion Ratio Lower Upper

96 100

70 20.9 16.2 24.2

95 7.9 7.4 11.2

97 5.3 0.0 0.0#

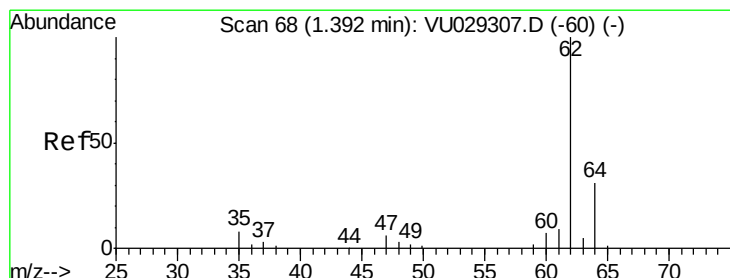
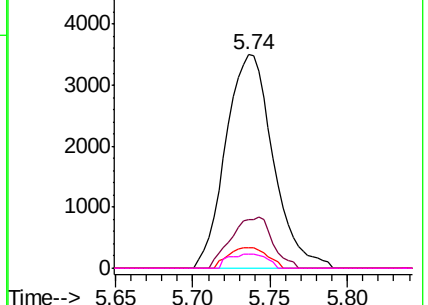
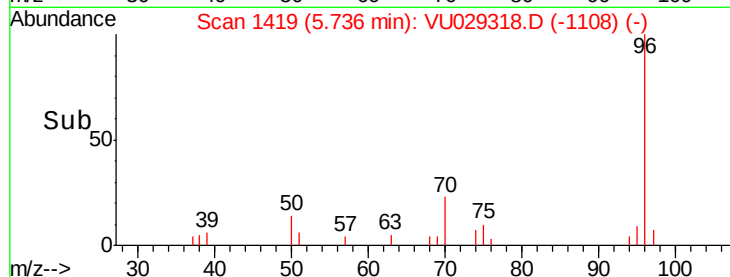


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 70.00 (69.70 to 70.70): VU0

Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0



#4

Vinyl Chloride

Concen: 7.100 ug/l

RT: 1.39 min Scan# 68

Delta R.T. -0.00 min

Lab File: VU029318.D

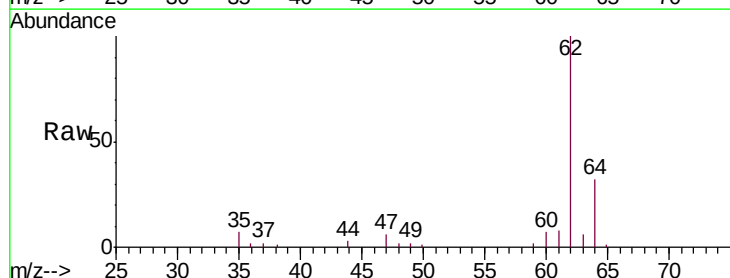
Acq: 30 Jan 2019 16:12

Tgt Ion: 62 Resp: 20391

Ion Ratio Lower Upper

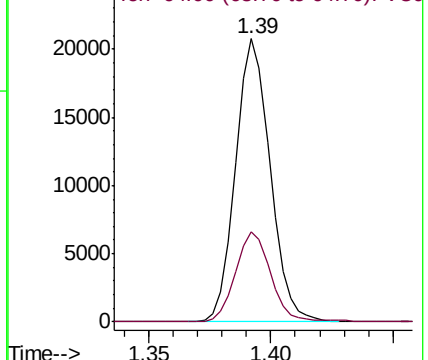
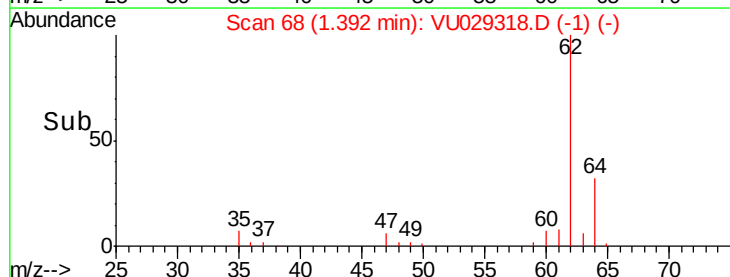
62 100

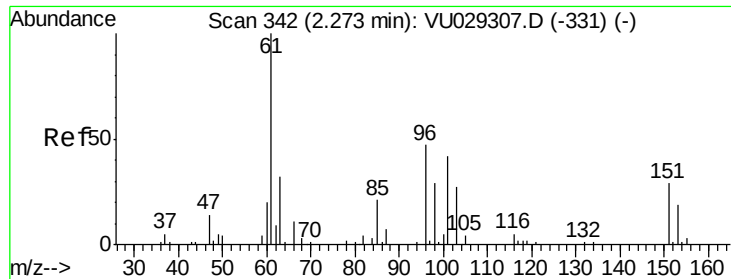
64 31.7 25.2 37.8



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0





#9

1,1-Dichloroethene

Concen: 2.226 ug/l

RT: 2.28 min Scan# 343

Delta R.T. 0.00 min

Lab File: VU029318.D

Acq: 30 Jan 2019 16:12

Instrument :

MSVOA_U

ClientSampleId :

PT-RVOA-WSDL

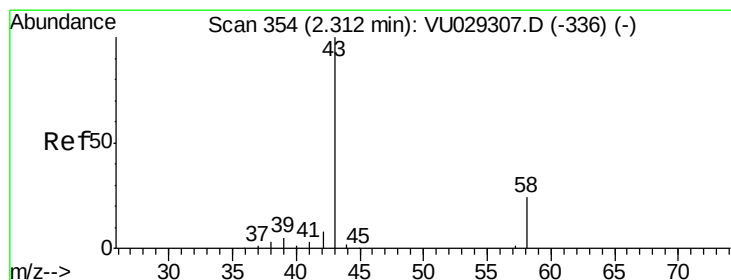
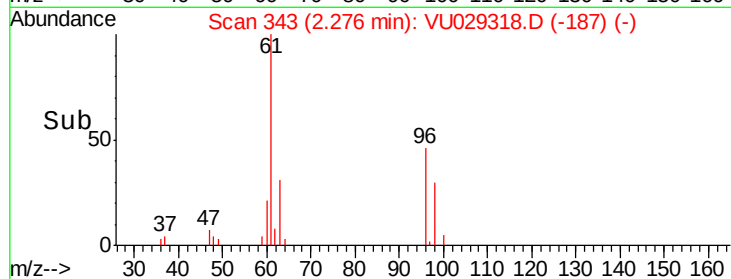
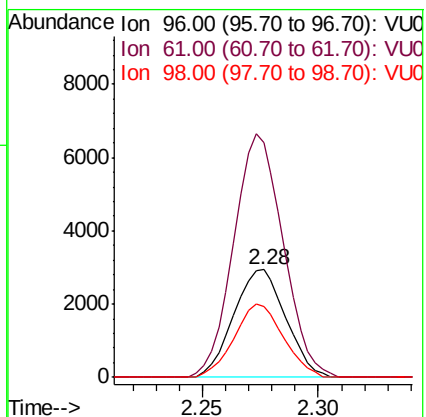
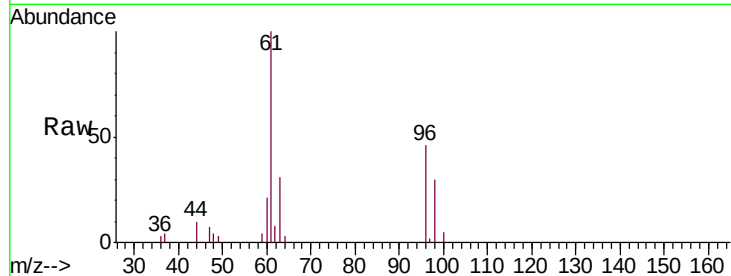
Tgt Ion: 96 Resp: 4586

Ion Ratio Lower Upper

96 100

61 218.1 0.0 641.4

98 66.1 0.0 122.6



#13

Acetone

Concen: 0.211 ug/l

RT: 2.31 min Scan# 353

Delta R.T. -0.00 min

Lab File: VU029318.D

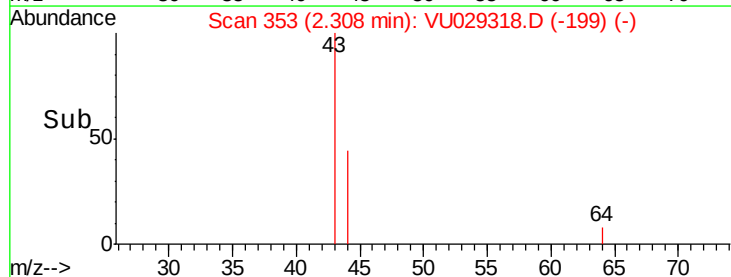
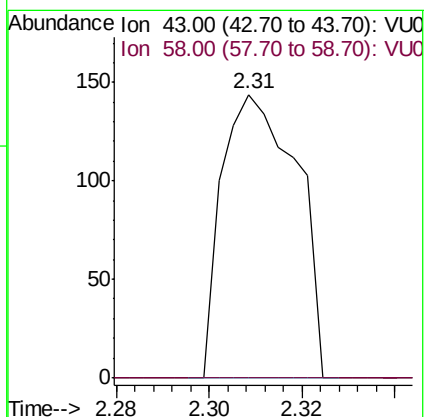
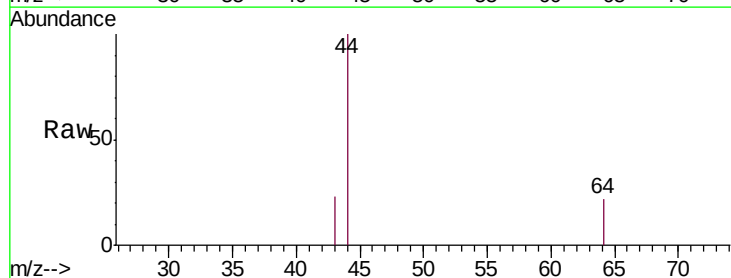
Acq: 30 Jan 2019 16:12

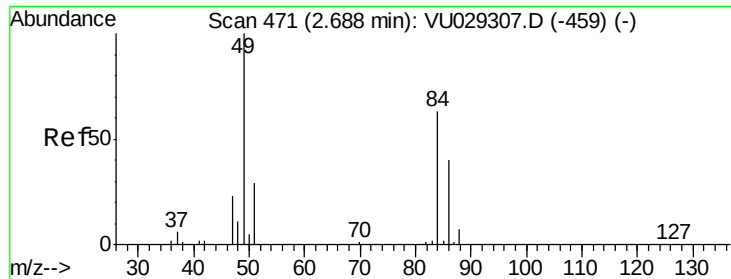
Tgt Ion: 43 Resp: 162

Ion Ratio Lower Upper

43 100

58 0.0 19.2 28.8#

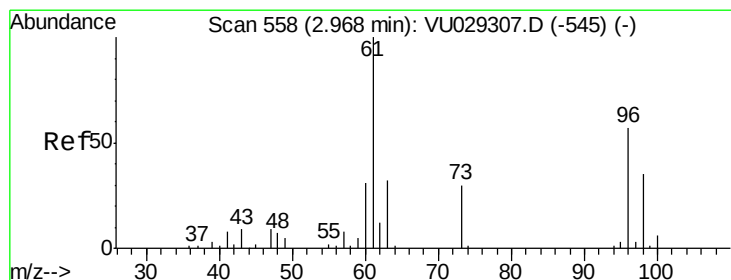
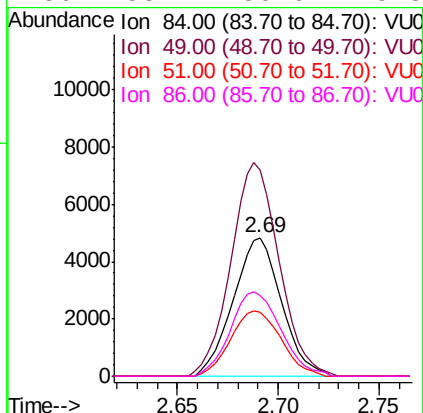
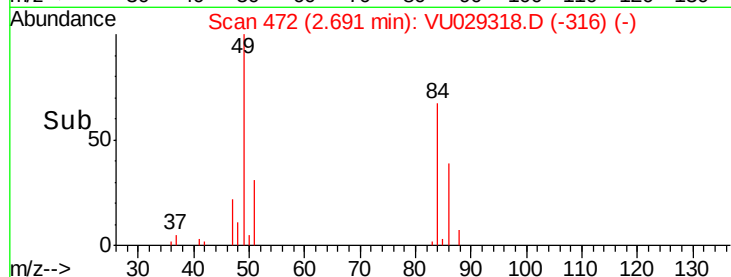
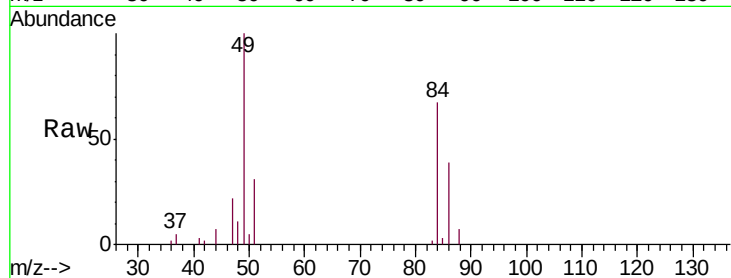




#15
Methylene Chloride
Concen: 2.973 ug/l
RT: 2.69 min Scan# 472
Delta R.T. 0.00 min
Lab File: VU029318.D
Acq: 30 Jan 2019 16:12

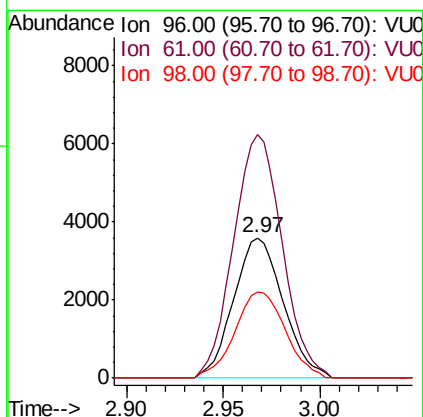
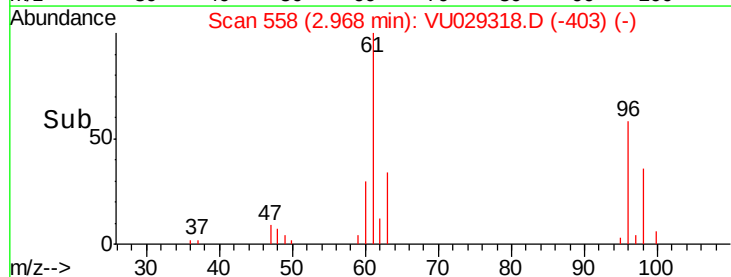
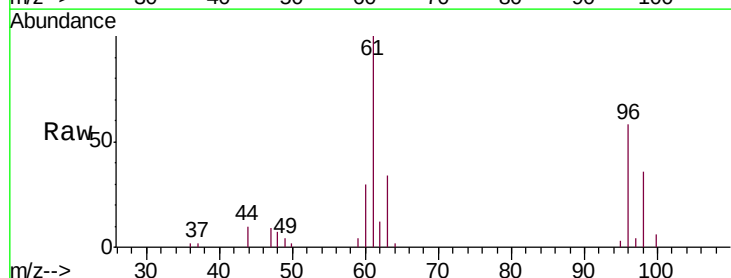
Instrument :
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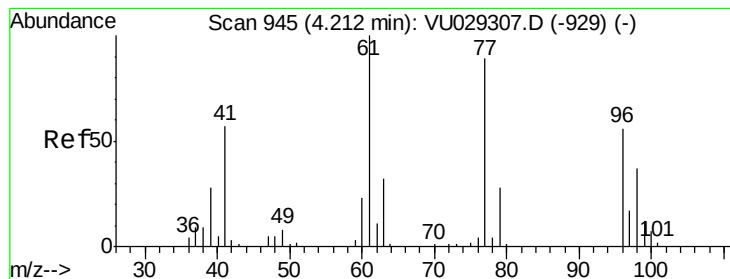
Tgt Ion:	84	Resp:	8091
Ion	Ratio	Lower	Upper
84	100		
49	148.4	127.0	190.6
51	45.8	0.0	93.4
86	58.2	50.6	75.8



#16
trans-1,2-Dichloroethene
Concen: 2.766 ug/l
RT: 2.97 min Scan# 558
Delta R.T. -0.00 min
Lab File: VU029318.D
Acq: 30 Jan 2019 16:12

Tgt Ion:	96	Resp:	6407
Ion	Ratio	Lower	Upper
96	100		
61	173.8	140.6	210.8
98	61.8	49.3	73.9



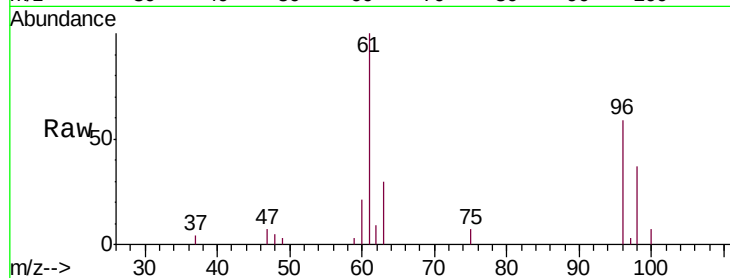


#22

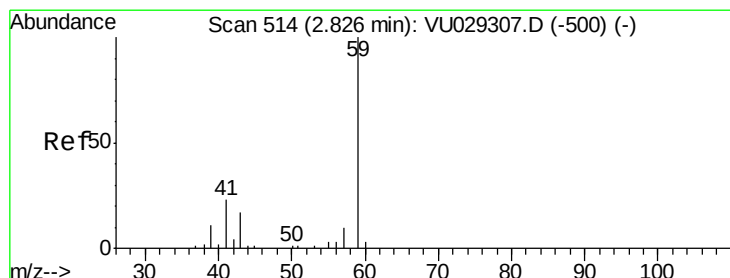
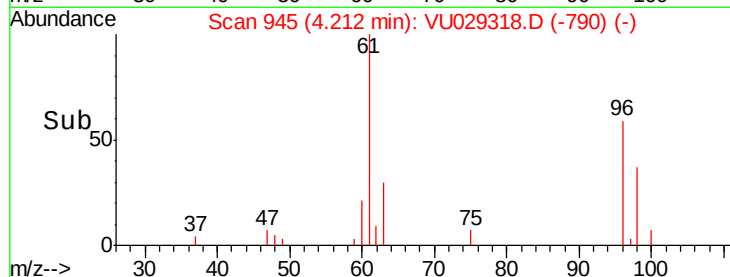
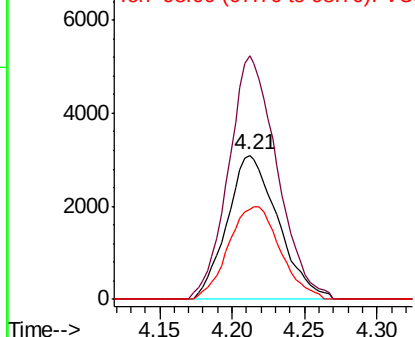
cis-1,2-Dichloroethene
 Concen: 3.091 ug/l
 RT: 4.21 min Scan# 945
 Delta R.T. -0.00 min
 Lab File: VU029318.D
 Acq: 30 Jan 2019 16:12

Instrument :
 MSVOA_U
 ClientSampleId :
 PT-RVOA-WSDL

Tgt Ion: 96 Resp: 7544
 Ion Ratio Lower Upper
 96 100
 61 161.2 0.0 460.0
 98 65.4 32.6 97.7



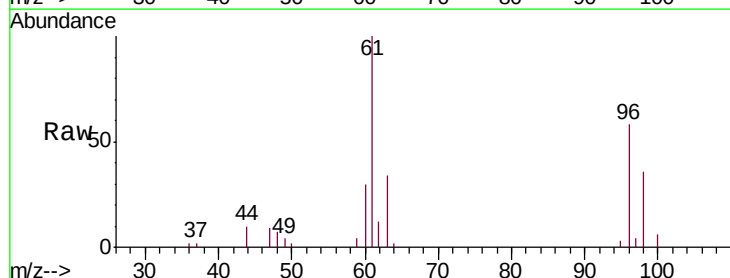
Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.00 (60.70 to 61.70): VU0
 Ion 98.00 (97.70 to 98.70): VU0



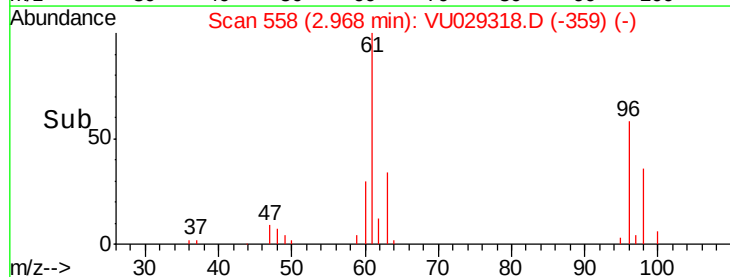
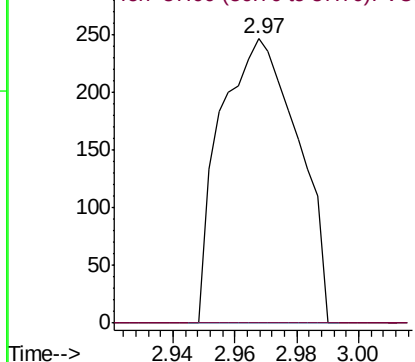
#24

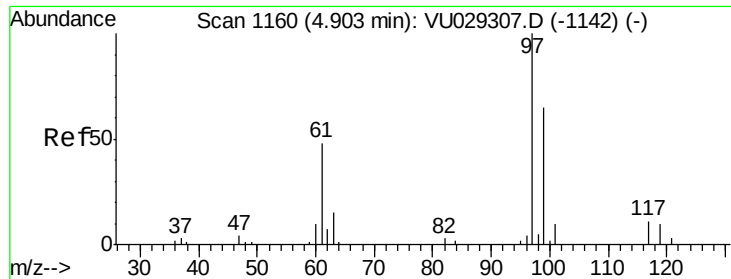
tert-Butyl Alcohol
 Concen: 1.654 ug/l
 RT: 2.97 min Scan# 558
 Delta R.T. 0.14 min
 Lab File: VU029318.D
 Acq: 30 Jan 2019 16:12

Tgt Ion: 59 Resp: 429
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.8 13.2#



Abundance Ion 59.00 (58.70 to 59.70): VU0
 Ion 57.00 (56.70 to 57.70): VU0

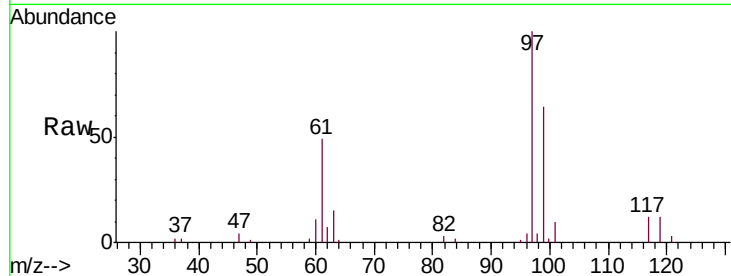




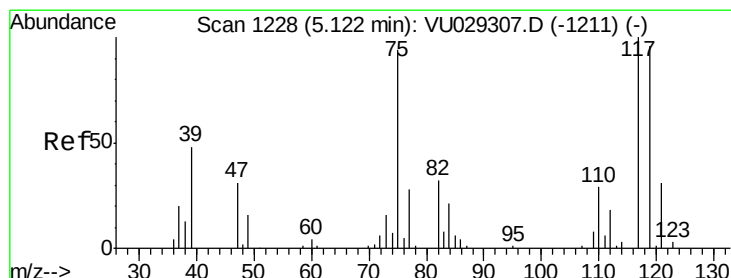
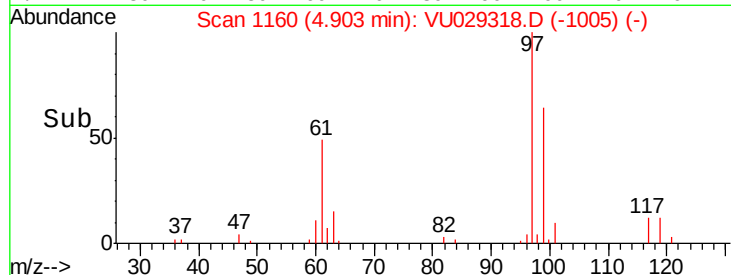
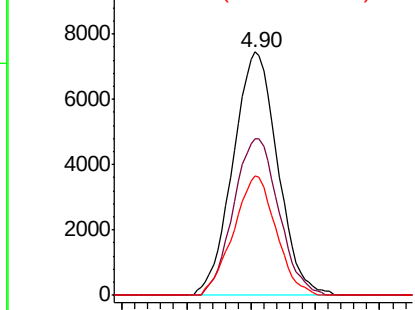
#28
 1,1,1-Trichloroethane
 Concen: 3.823 ug/l
 RT: 4.90 min Scan# 1160
 Delta R.T. -0.00 min
 Lab File: VU029318.D
 Acq: 30 Jan 2019 16:12

Instrument :
 MSVOA_U
 ClientSampleId :
 PT-RVOA-WSDL

Tgt Ion: 97 Resp: 17934
 Ion Ratio Lower Upper
 97 100
 99 65.0 32.4 97.2
 61 46.5 24.4 73.2

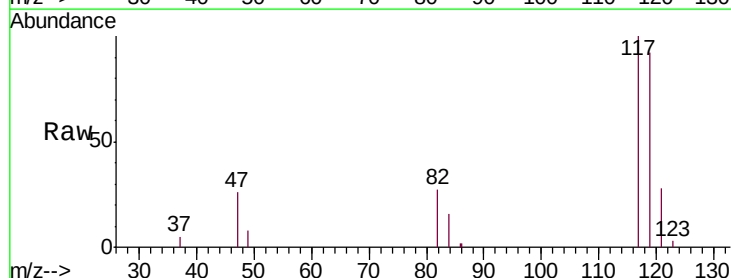


Abundance Ion 97.00 (96.70 to 97.70): VU0
 Ion 99.00 (98.70 to 99.70): VU0
 Ion 61.00 (60.70 to 61.70): VU0

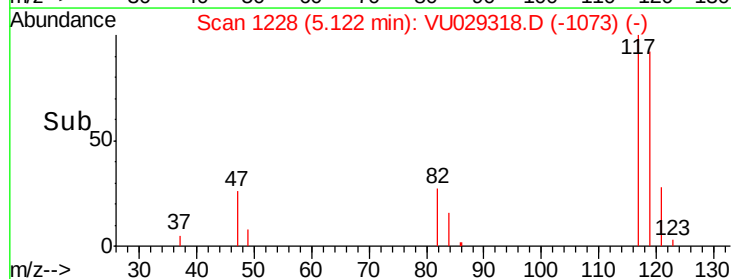
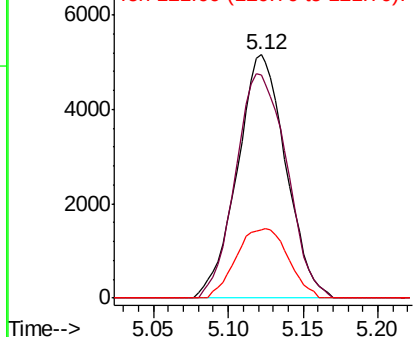


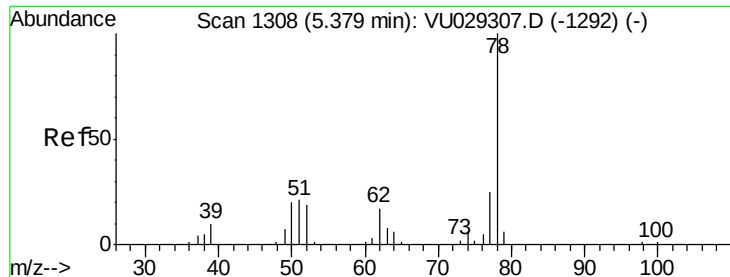
#30
 Carbon Tetrachloride
 Concen: 2.831 ug/l
 RT: 5.12 min Scan# 1228
 Delta R.T. -0.00 min
 Lab File: VU029318.D
 Acq: 30 Jan 2019 16:12

Tgt Ion: 117 Resp: 11608
 Ion Ratio Lower Upper
 117 100
 119 91.8 76.8 115.2
 121 28.2 24.4 36.6



Abundance Ion 117.00 (116.70 to 117.70): V
 Ion 119.00 (118.70 to 119.70): V
 Ion 121.00 (120.70 to 121.70): V





#35

Benzene

Concen: 3.313 ug/l

RT: 5.38 min Scan# 1308

Delta R.T. -0.00 min

Lab File: VU029318.D

Acq: 30 Jan 2019 16:12

Instrument :

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ClientSampleId :

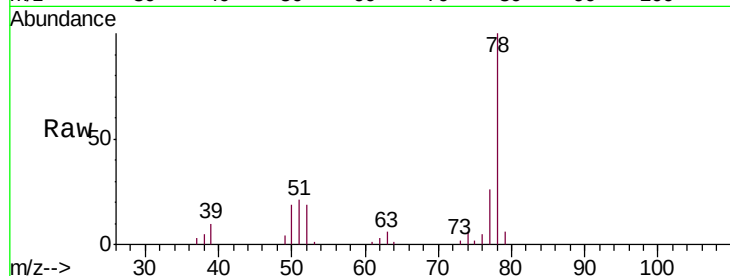
PT-RVOA-WSDL

Tgt Ion: 78 Resp: 31515

Ion Ratio Lower Upper

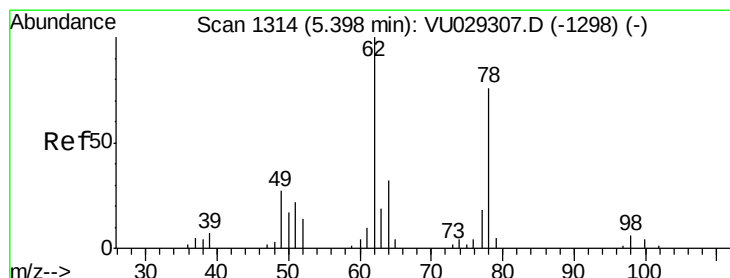
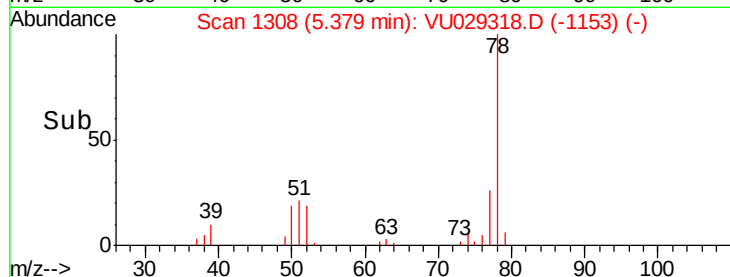
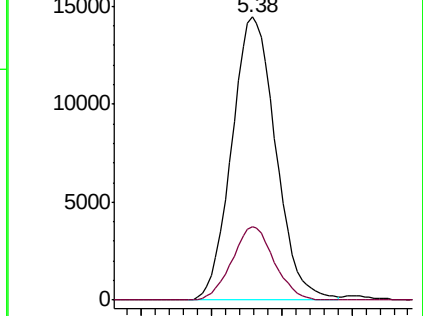
78 100

77 26.0 19.8 29.8



Abundance Ion 78.10 (77.80 to 78.80): VU0

Ion 77.00 (76.70 to 77.70): VU0



#36

1,2-Dichloroethane

Concen: 0.636 ug/l

RT: 5.40 min Scan# 1313

Delta R.T. -0.00 min

Lab File: VU029318.D

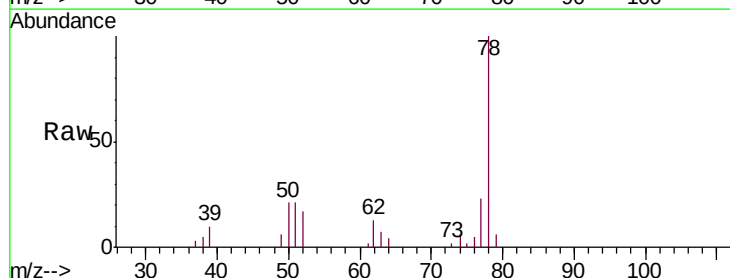
Acq: 30 Jan 2019 16:12

Tgt Ion: 62 Resp: 2503

Ion Ratio Lower Upper

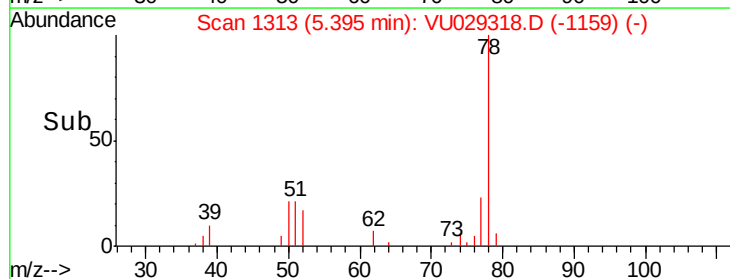
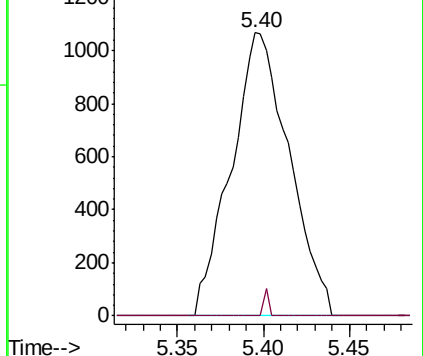
62 100

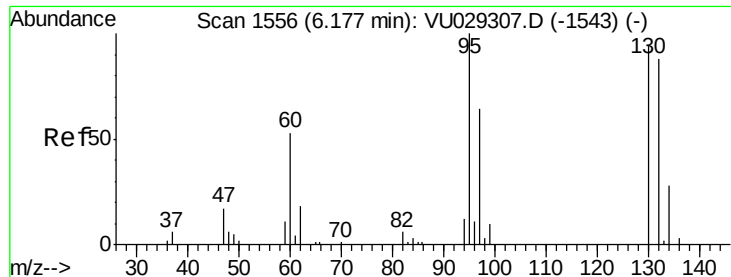
98 0.8 4.9 7.3#



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

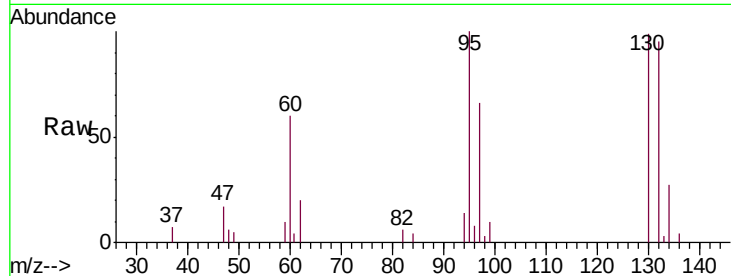




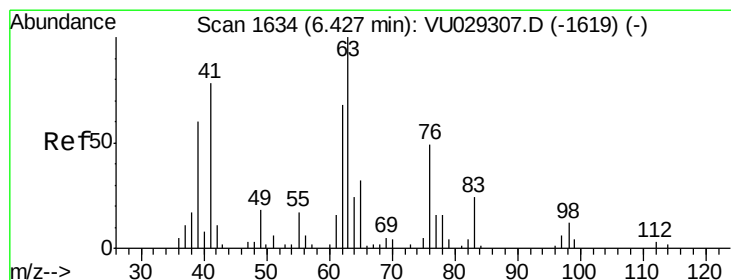
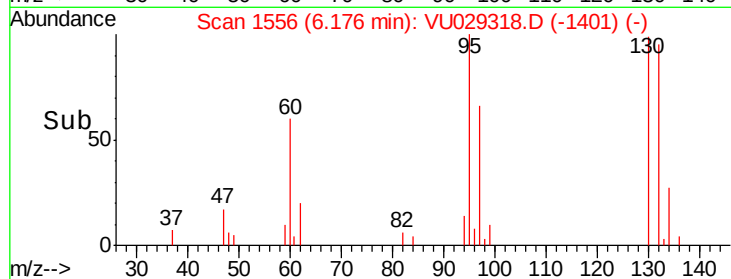
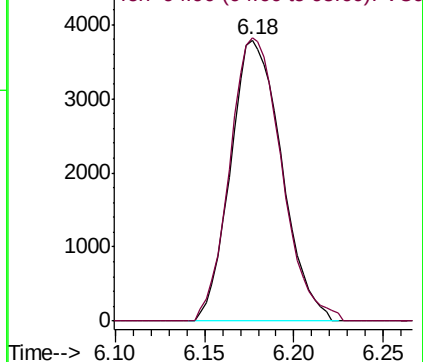
#37
 Trichloroethene
 Concen: 3.167 ug/l
 RT: 6.18 min Scan# 1556
 Delta R.T. -0.00 min
 Lab File: VU029318.D
 Acq: 30 Jan 2019 16:12

Instrument :
 MSVOA_U
 ClientSampleId :
 PT-RVOA-WSDL

Tgt Ion:130 Resp: 7583
 Ion Ratio Lower Upper
 130 100
 95 100.6 85.4 128.0

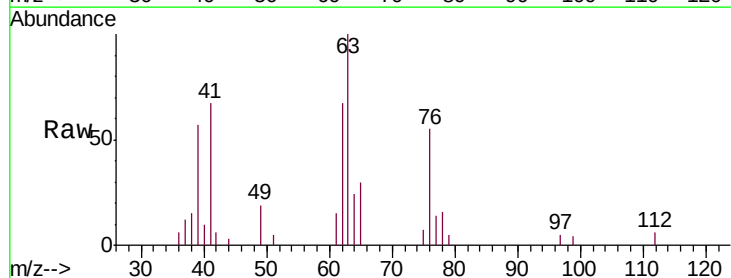


Abundance Ion 129.90 (129.60 to 130.60): VU029307.D (-1543) (-)
 Ion 94.90 (94.60 to 95.60): VU029307.D (-1543) (-)

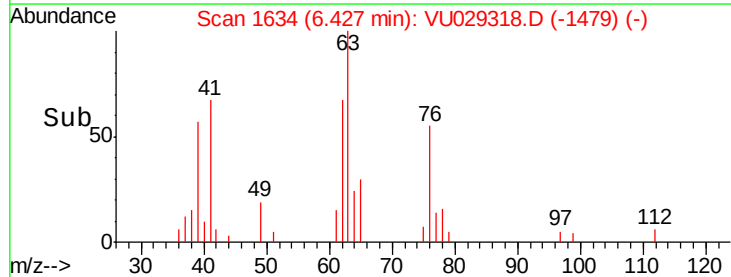
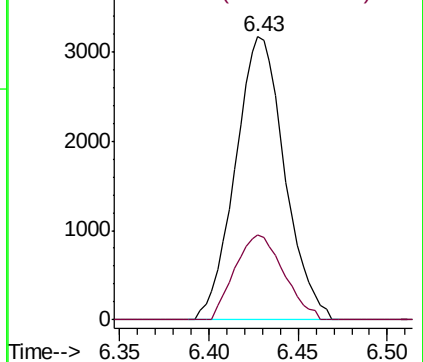


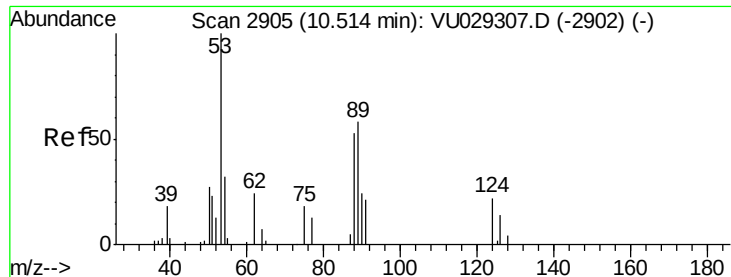
#38
 1,2-Dichloropropane
 Concen: 2.341 ug/l
 RT: 6.43 min Scan# 1634
 Delta R.T. -0.00 min
 Lab File: VU029318.D
 Acq: 30 Jan 2019 16:12

Tgt Ion: 63 Resp: 6093
 Ion Ratio Lower Upper
 63 100
 65 30.1 25.5 38.3



Abundance Ion 63.00 (62.70 to 63.70): VU029307.D (-1619) (-)
 Ion 65.00 (64.70 to 65.70): VU029307.D (-1619) (-)

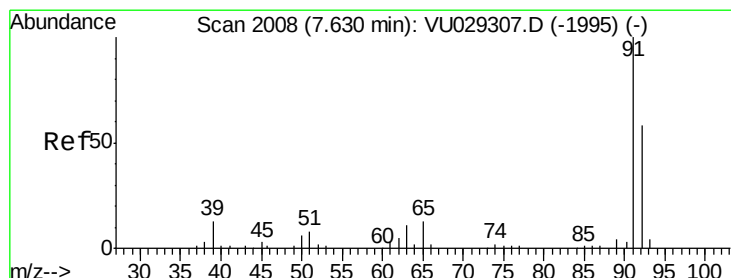
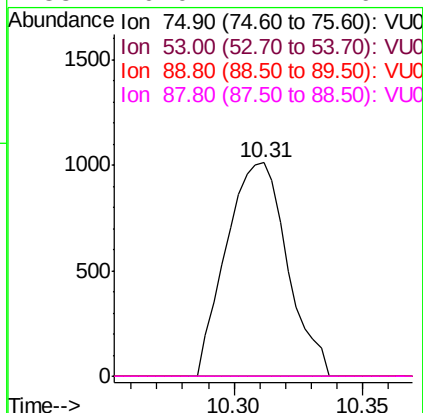
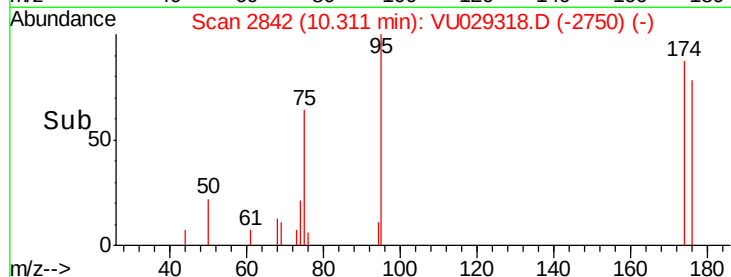
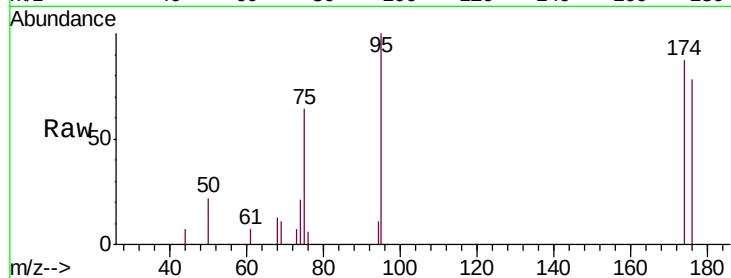




#46
t-1,4-Dichloro-2-butene
Concen: 2.750 ug/l
RT: 10.31 min Scan# 2842
Delta R.T. -0.20 min
Lab File: VU029318.D
Acq: 30 Jan 2019 16:12

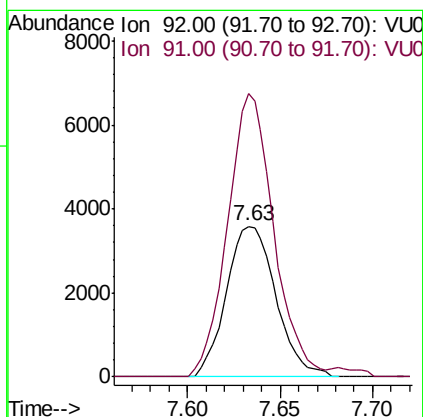
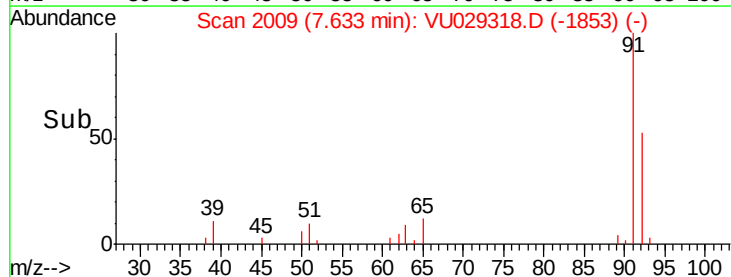
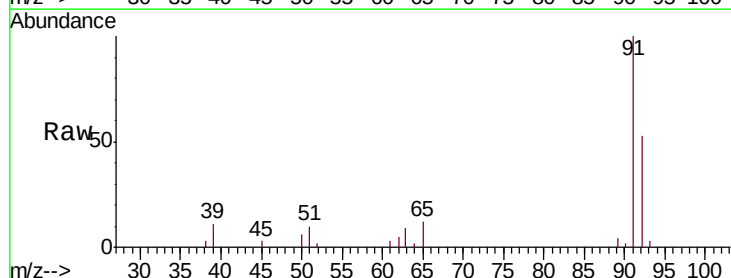
Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WSDL

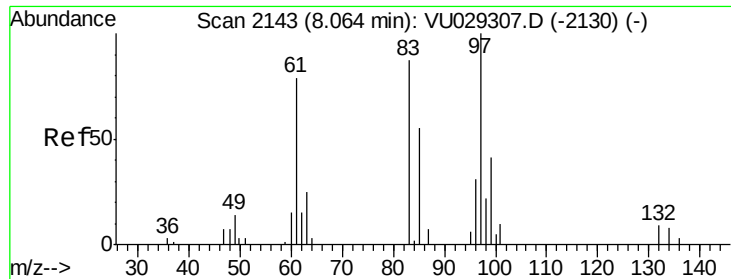
Tgt Ion: 75 Resp: 1665
Ion Ratio Lower Upper
75 100
53 0.0 78.2 117.4#
89 0.0 44.2 66.4#
88 0.0 41.4 62.2#



#49
Toluene
Concen: 1.205 ug/l
RT: 7.63 min Scan# 2009
Delta R.T. 0.00 min
Lab File: VU029318.D
Acq: 30 Jan 2019 16:12

Tgt Ion: 92 Resp: 6648
Ion Ratio Lower Upper
92 100
91 175.3 140.7 211.1

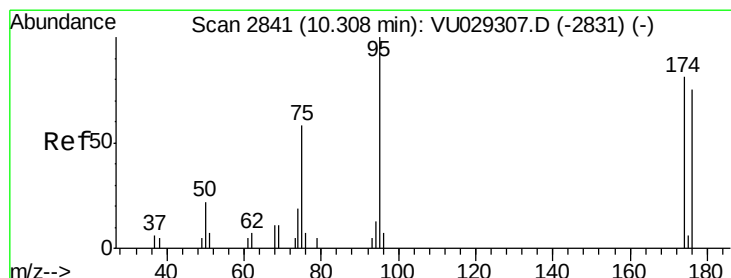
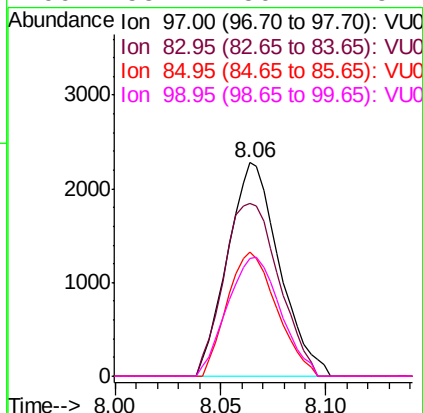
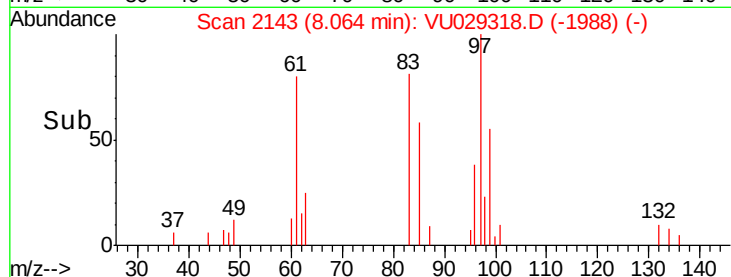
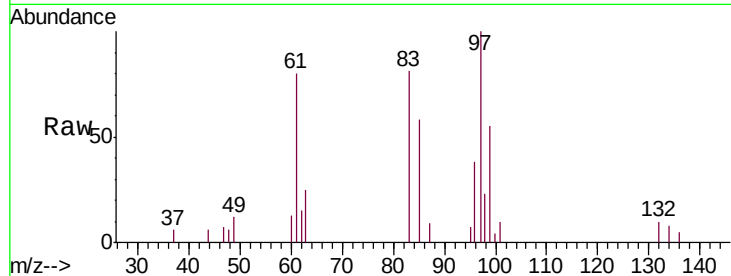




#52
 1,1,2-Trichloroethane
 Concen: 2.283 ug/l
 RT: 8.06 min Scan# 2143
 Delta R.T. -0.00 min
 Lab File: VU029318.D
 Acq: 30 Jan 2019 16:12

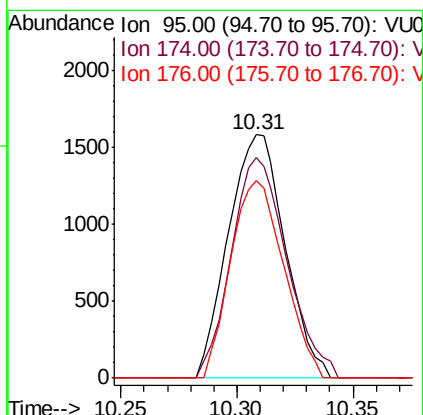
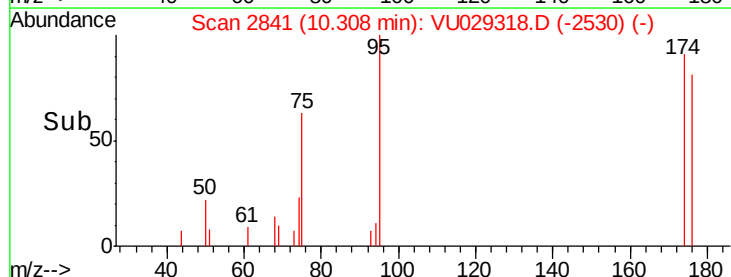
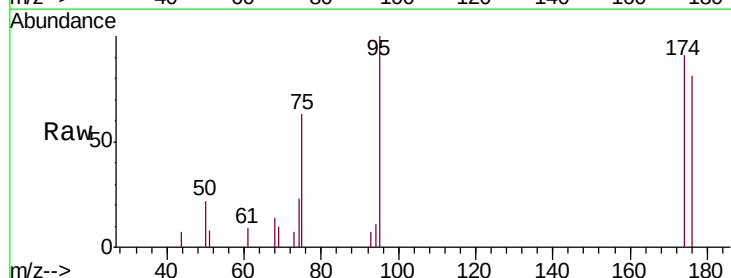
Instrument :
 MSVOA_U
 ClientSampleId :
 PT-RVOA-WSDL

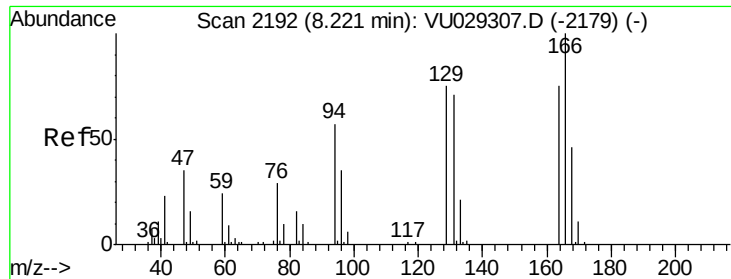
Tgt Ion:	97	Resp:	3885
Ion	Ratio	Lower	Upper
97	100		
83	81.1	69.9	104.9
85	57.9	45.8	68.6
99	55.4	50.2	75.2



#57
 4-Bromofluorobenzene
 Concen: N.D. ug/l
 RT: 10.31 min Scan# 2841
 Delta R.T. -0.00 min
 Lab File: VU029318.D
 Acq: 30 Jan 2019 16:12

Tgt Ion:	95	Resp:	2692
Ion	Ratio	Lower	Upper
95	100		
174	88.8	64.2	96.2
176	76.0	62.3	93.5

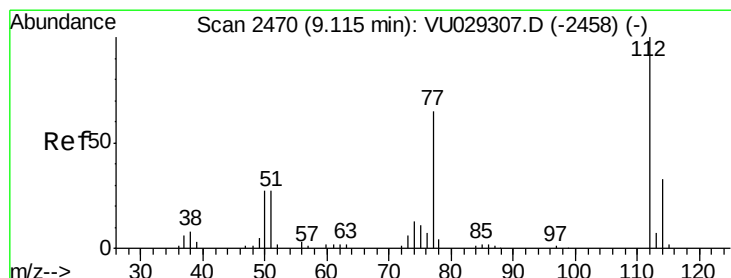
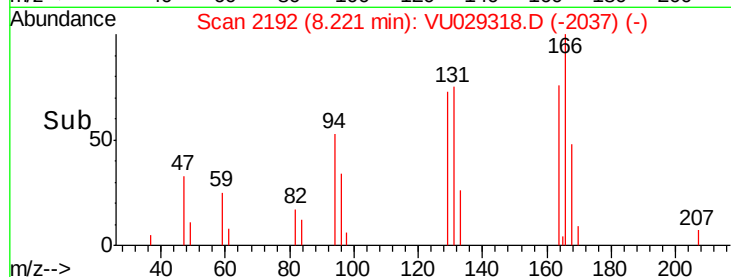
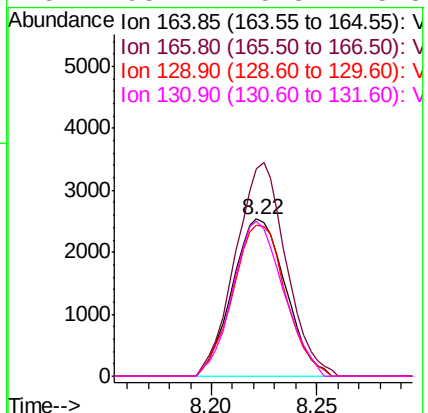
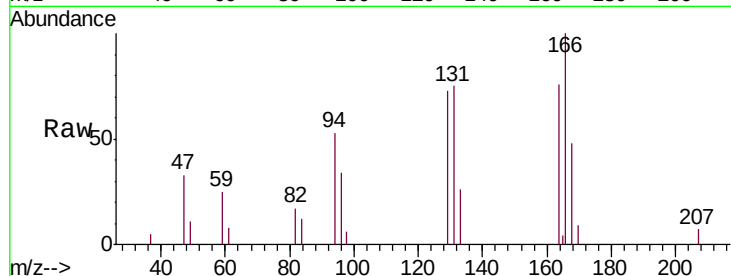




#58
 Tetrachloroethene
 Concen: 1.961 ug/l
 RT: 8.22 min Scan# 2192
 Delta R.T. -0.00 min
 Lab File: VU029318.D
 Acq: 30 Jan 2019 16:12

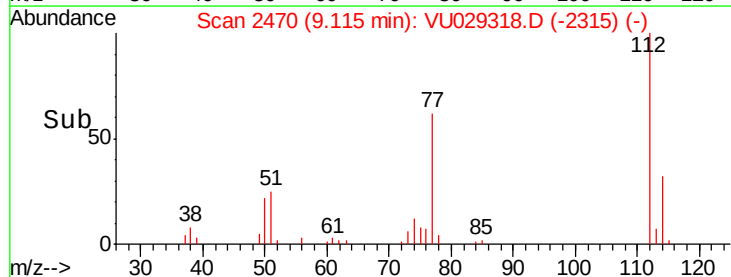
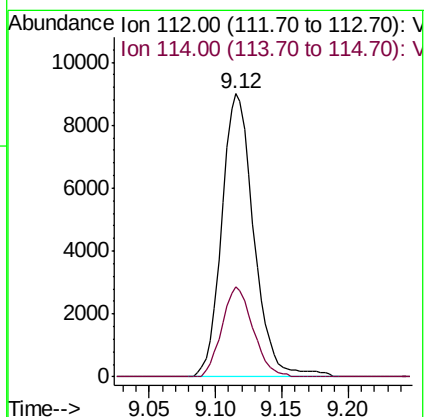
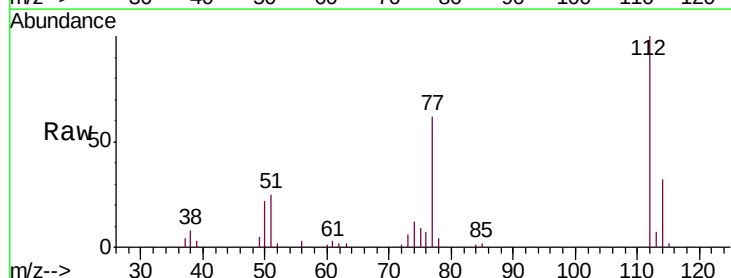
Instrument :
 MSVOA_U
 ClientSampleId :
 PT-RVOA-WSDL

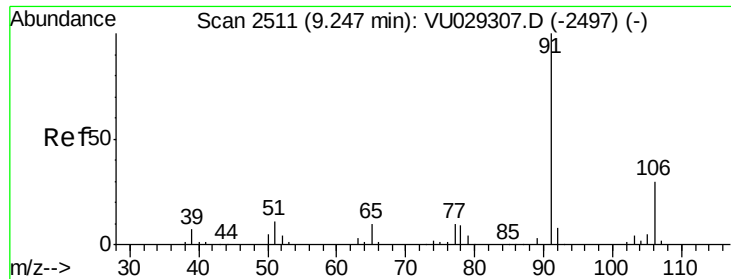
Tgt Ion:	164	Resp:	4456
Ion	Ratio	Lower	Upper
164	100		
166	132.2	106.6	159.8
129	96.5	79.9	119.9
131	98.7	75.8	113.8



#59
 Chlorobenzene
 Concen: 2.523 ug/l
 RT: 9.12 min Scan# 2470
 Delta R.T. -0.00 min
 Lab File: VU029318.D
 Acq: 30 Jan 2019 16:12

Tgt Ion:	112	Resp:	15136
Ion	Ratio	Lower	Upper
112	100		
114	31.8	26.2	39.4

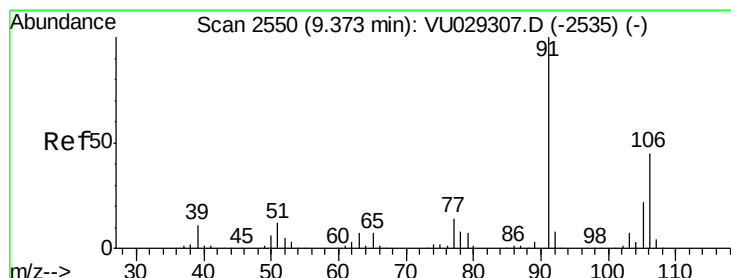
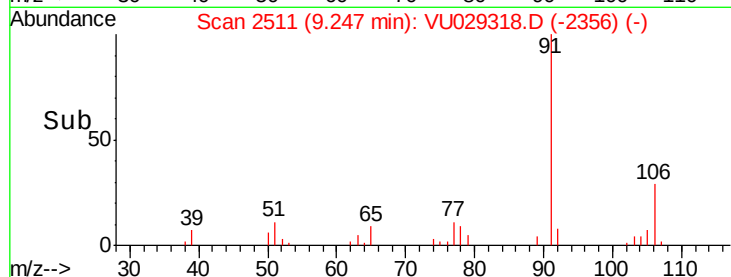
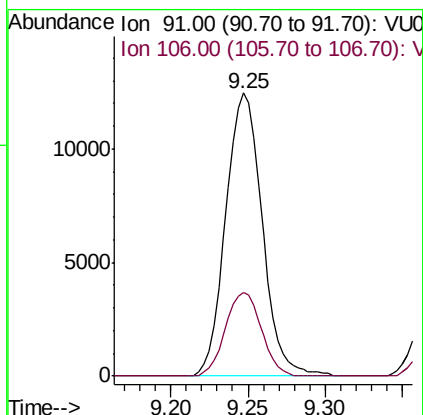
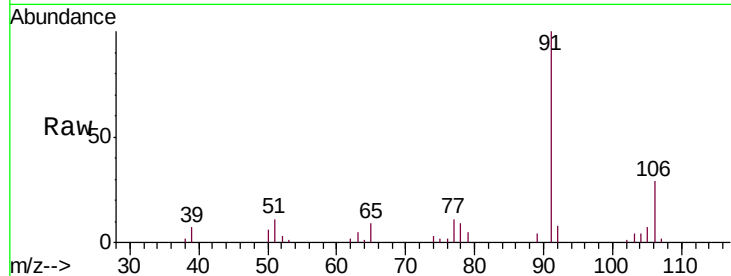




#63
Ethyl Benzene
Concen: 1.944 ug/l
RT: 9.25 min Scan# 2511
Delta R.T. -0.00 min
Lab File: VU029318.D
Acq: 30 Jan 2019 16:12

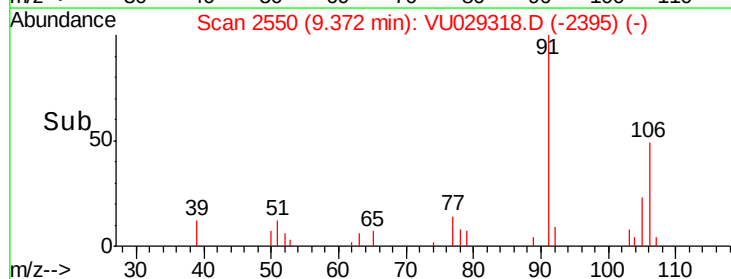
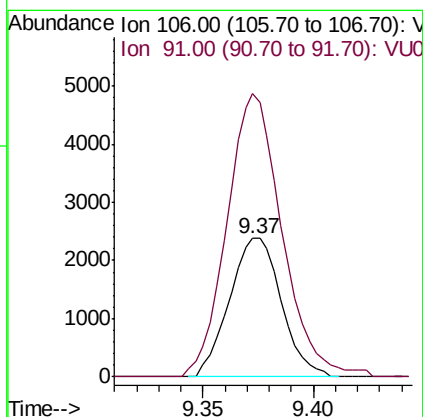
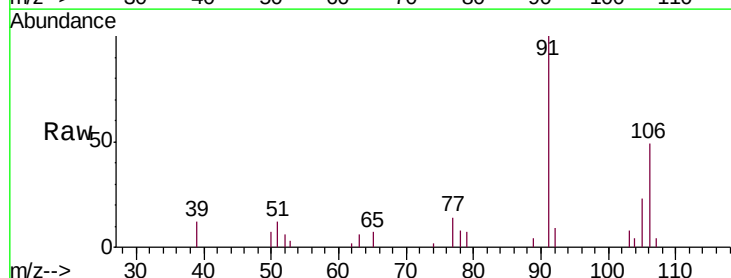
Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WSDL

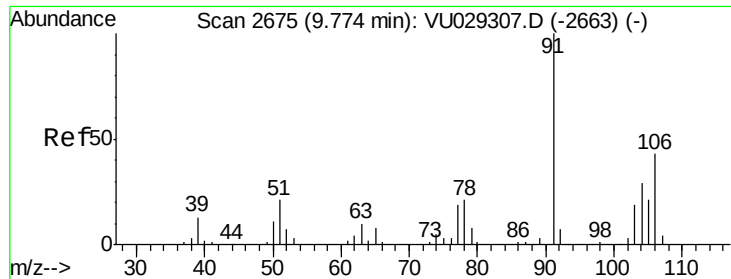
Tgt Ion: 91 Resp: 20386
Ion Ratio Lower Upper
91 100
106 29.4 23.8 35.6



#64
m/p-Xylenes
Concen: 0.988 ug/l
RT: 9.37 min Scan# 2550
Delta R.T. -0.00 min
Lab File: VU029318.D
Acq: 30 Jan 2019 16:12

Tgt Ion: 106 Resp: 3893
Ion Ratio Lower Upper
106 100
91 216.5 174.6 261.8

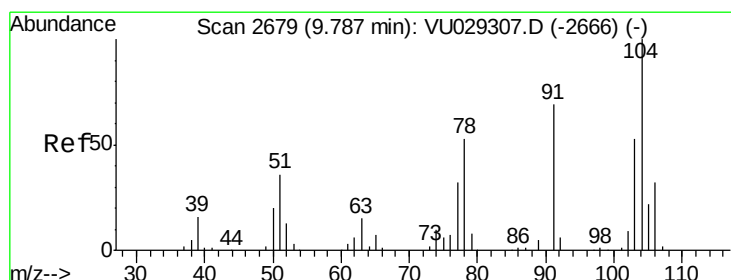
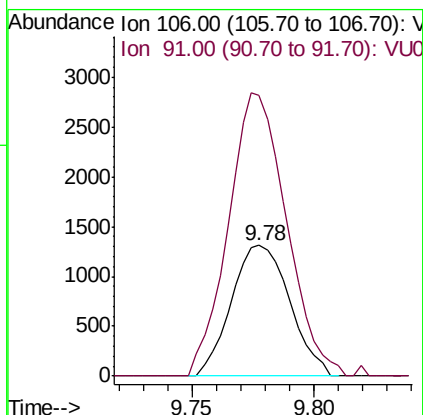
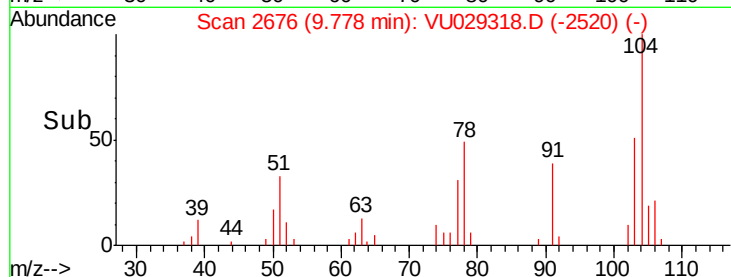
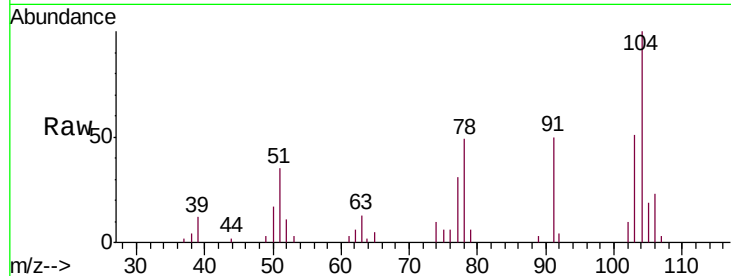




#65
o-Xylene
Concen: 0.576 ug/l
RT: 9.78 min Scan# 2676
Delta R.T. 0.00 min
Lab File: VU029318.D
Acq: 30 Jan 2019 16:12

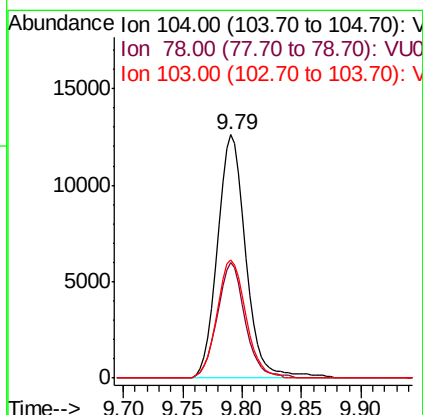
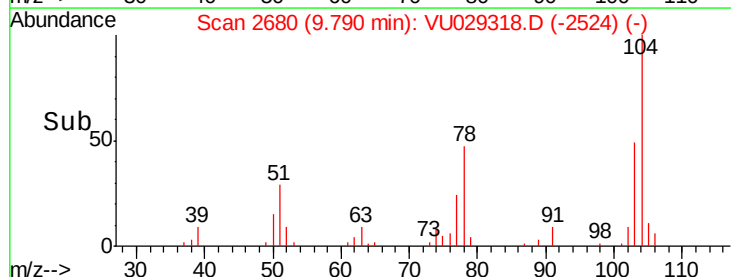
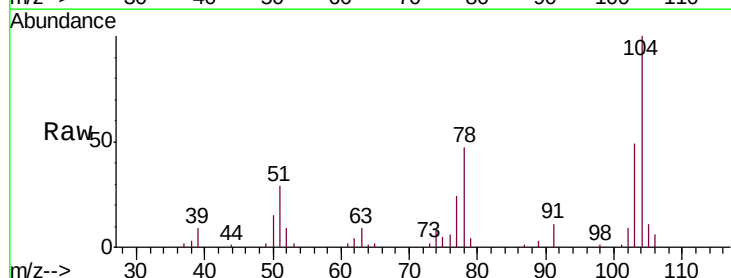
Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WSDL

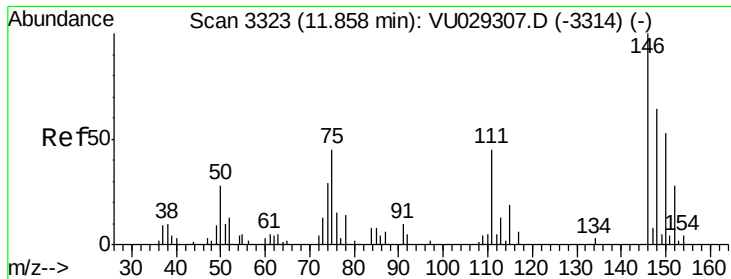
Tgt Ion:106 Resp: 2177
Ion Ratio Lower Upper
106 100
91 215.3 114.5 343.4



#66
Styrene
Concen: 3.201 ug/l
RT: 9.79 min Scan# 2680
Delta R.T. 0.00 min
Lab File: VU029318.D
Acq: 30 Jan 2019 16:12

Tgt Ion:104 Resp: 20835
Ion Ratio Lower Upper
104 100
78 46.7 46.5 69.7
103 49.3 44.7 67.1





#68

1,2-Dichlorobenzene-d4

Concen: N.D. ug/l

RT: 11.86 min Scan# 3323

Delta R.T. -0.00 min

Lab File: VU029318.D

Acq: 30 Jan 2019 16:12

Instrument :

MSVOA_U

ClientSampleId :

PT-RVOA-WSDL

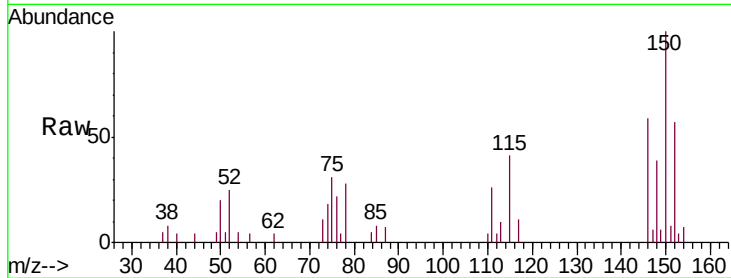
Tgt Ion:152 Resp: 2779

Ion Ratio Lower Upper

152 100

115 66.2 0.0 133.4

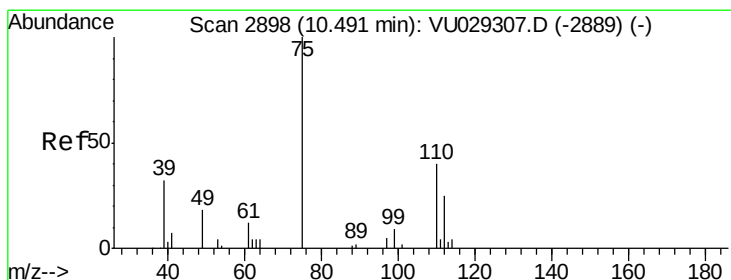
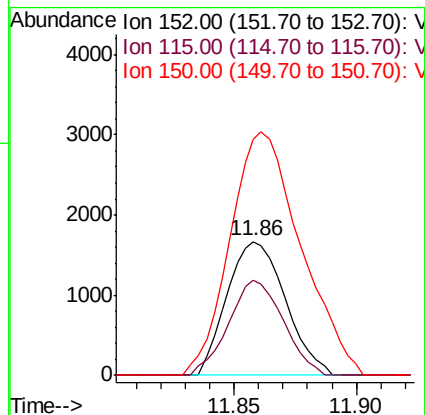
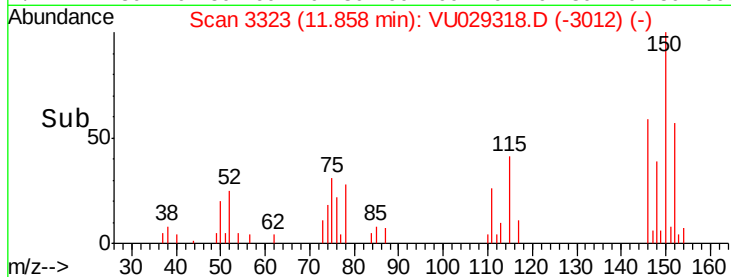
150 219.6 0.0 670.8



Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V



#71

1,2,3-Trichloropropane

Concen: 0.863 ug/l

RT: 10.31 min Scan# 2842

Delta R.T. -0.18 min

Lab File: VU029318.D

Acq: 30 Jan 2019 16:12

Tgt Ion: 75 Resp: 1665

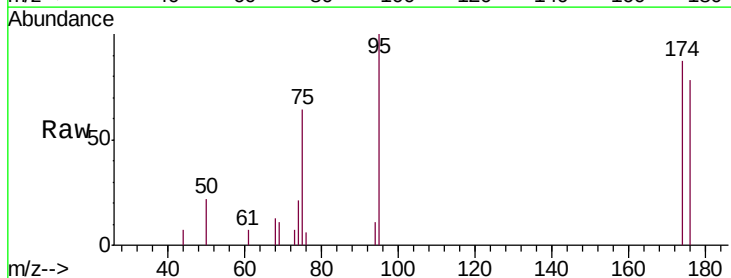
Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0

110 0.0 0.0 63.6

97 0.0 0.0 31.4

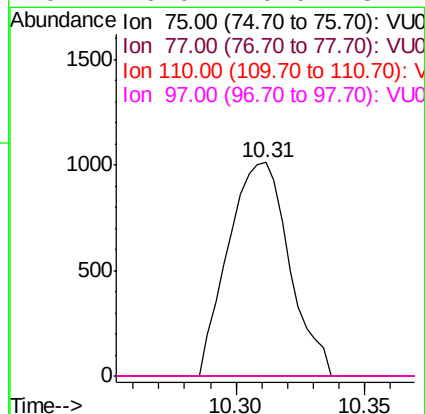
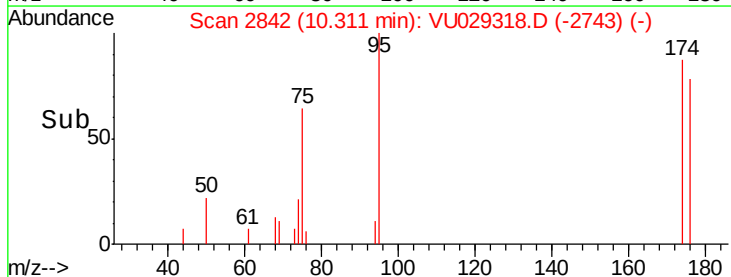


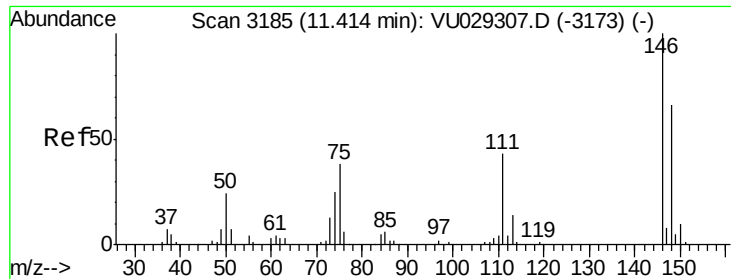
Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

Ion 110.00 (109.70 to 110.70): V

Ion 97.00 (96.70 to 97.70): VU0

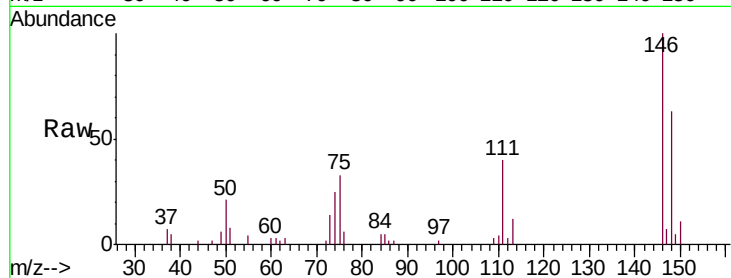




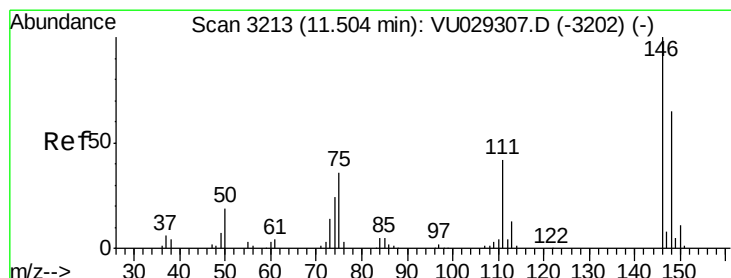
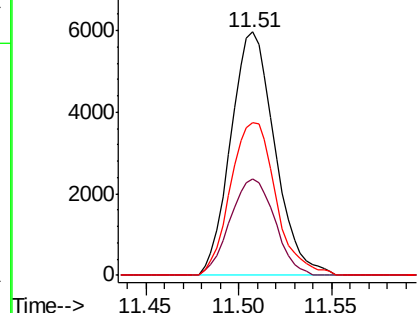
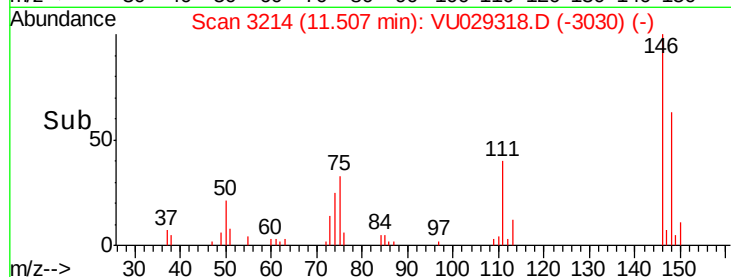
#82
 1,3-Dichlorobenzene
 Concen: 1.838 ug/l
 RT: 11.51 min Scan# 3214
 Delta R.T. 0.09 min
 Lab File: VU029318.D
 Acq: 30 Jan 2019 16:12

Instrument :
 MSVOA_U
 ClientSampleId :
 PT-RVOA-WSDL

Tgt Ion:146 Resp: 9830
 Ion Ratio Lower Upper
 146 100
 111 39.9 34.1 51.1
 148 64.5 52.3 78.5

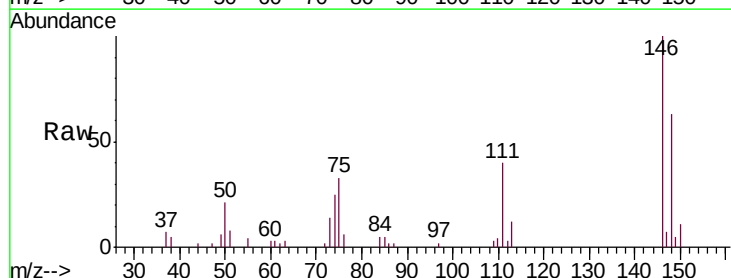


Abundance Ion 146.00 (145.70 to 146.70): V
 8000 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

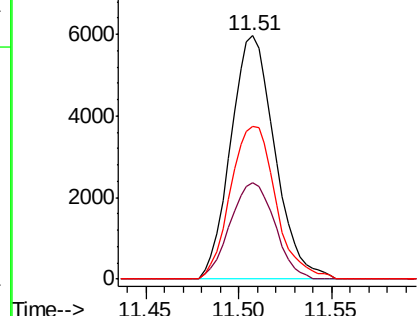
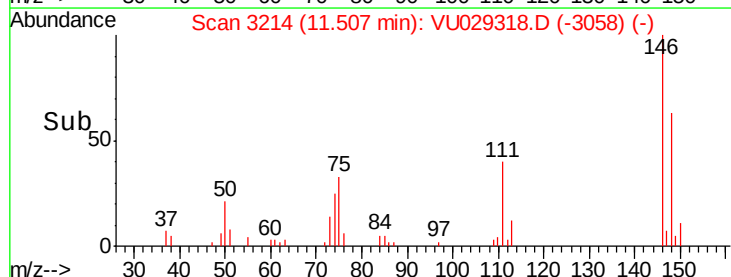


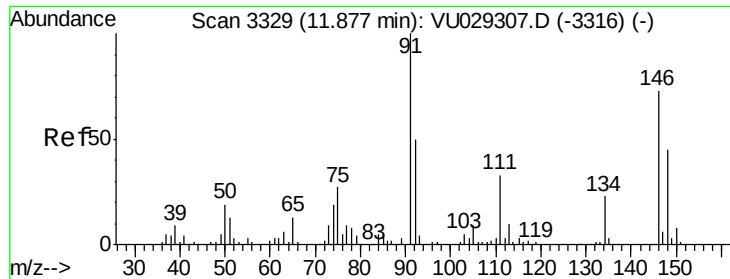
#83
 1,4-Dichlorobenzene
 Concen: 1.824 ug/l
 RT: 11.51 min Scan# 3214
 Delta R.T. 0.00 min
 Lab File: VU029318.D
 Acq: 30 Jan 2019 16:12

Tgt Ion:146 Resp: 9830
 Ion Ratio Lower Upper
 146 100
 111 39.9 32.9 49.3
 148 64.5 51.8 77.6



Abundance Ion 146.00 (145.70 to 146.70): V
 8000 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

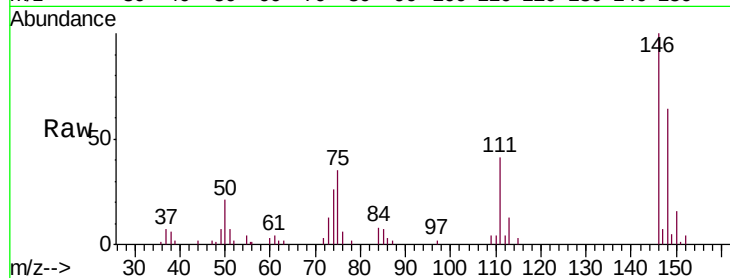




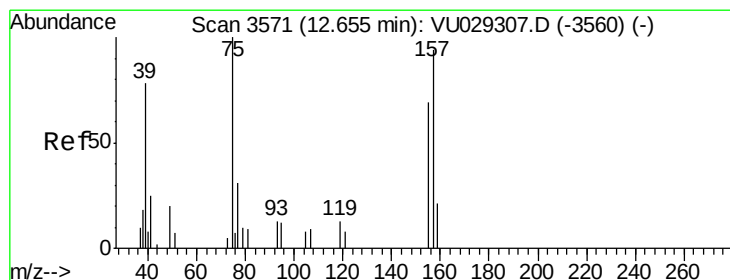
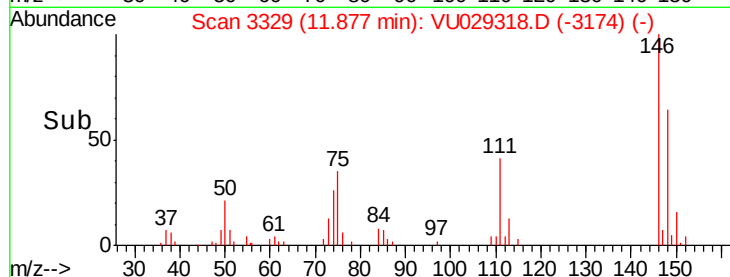
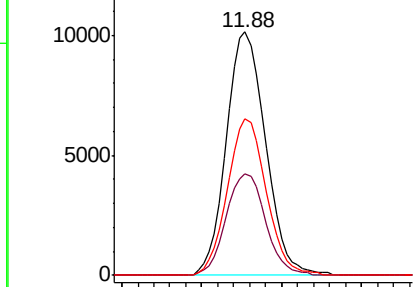
#85
 1,2-Dichlorobenzene
 Concen: 3.507 ug/l
 RT: 11.88 min Scan# 3329
 Delta R.T. -0.00 min
 Lab File: VU029318.D
 Acq: 30 Jan 2019 16:12

Instrument :
 MSVOA_U
 ClientSampleId :
 PT-RVOA-WSDL

Tgt Ion: 146 Resp: 16980
 Ion Ratio Lower Upper
 146 100
 111 41.9 21.9 65.8
 148 63.5 31.8 95.3

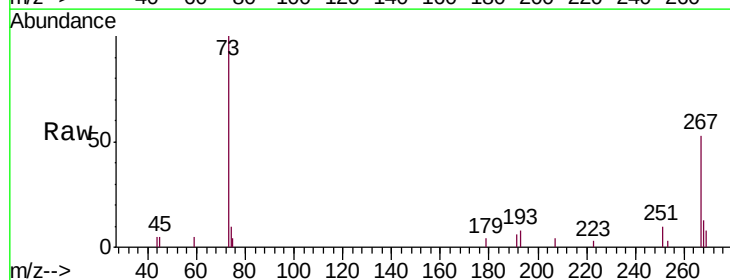


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

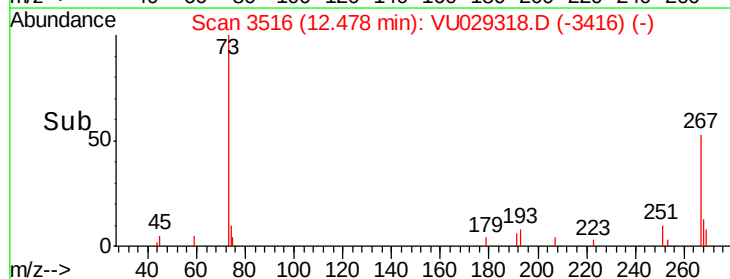
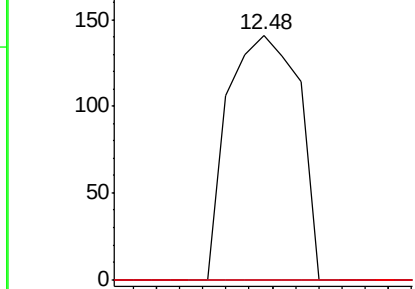


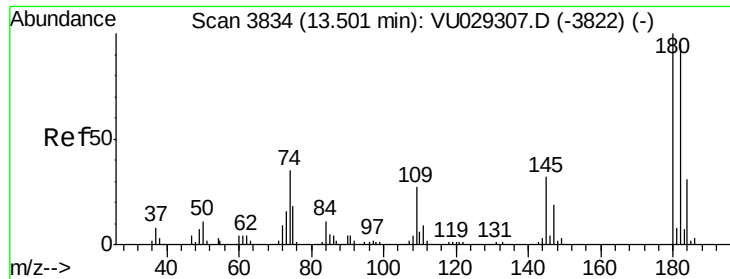
#86
 1,2-Dibromo-3-Chloropropane
 Concen: 0.287 ug/l
 RT: 12.48 min Scan# 3516
 Delta R.T. -0.18 min
 Lab File: VU029318.D
 Acq: 30 Jan 2019 16:12

Tgt Ion: 75 Resp: 120
 Ion Ratio Lower Upper
 75 100
 155 0.0 53.8 80.8#
 157 0.0 69.2 103.8#



Abundance Ion 75.00 (74.70 to 75.70): VU0
 Ion 155.00 (154.70 to 155.70): V
 Ion 157.00 (156.70 to 157.70): V





#87

1,2,4-Trichlorobenzene

Concen: 1.713 ug/l

RT: 13.50 min Scan# 3835

Delta R.T. 0.00 min

Lab File: VU029318.D

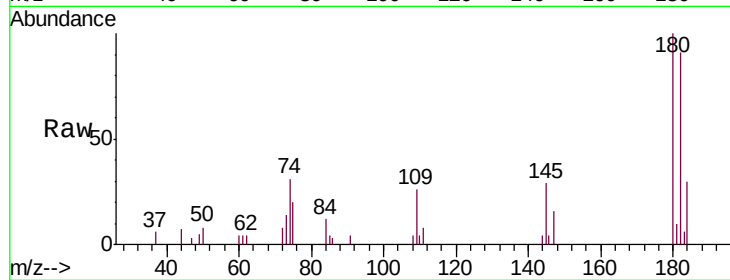
Acq: 30 Jan 2019 16:12

Instrument :

MSVOA_U

ClientSampleId :

PT-RVOA-WSDL



Tgt Ion:180 Resp: 5610

Ion Ratio Lower Upper

180 100

182 90.9 76.6 114.8

145 27.4 24.6 36.8

Abundance Ion 179.70 (179.40 to 180.40): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.80 (144.50 to 145.50): V

