

Data File : VU029768.D
Acq On : 01 Mar 2019 17:18
Operator : JC/SP
Sample : K1660-08
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
CWK00

Quant Time: Mar 01 22:18:04 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR022119WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Fri Mar 01 22:12:01 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	229142	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	221193	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	113114	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	86931	5.81	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	116.20%
7) Chloroethane-d5	1.68	69	70837	5.03	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	100.60%
11) 1,1-Dichloroethene-d2	2.27	63	124438	3.87	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	77.40%
20) 2-Butanone-d5	4.19	46	181993	53.79	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	107.58%
24) Chloroform-d	4.65	84	128088	4.86	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	97.20%
26) 1,2-Dichloroethane-d4	5.31	65	72916	5.12	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	102.40%
32) Benzene-d6	5.34	84	311028	5.48	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	109.60%
36) 1,2-Dichloropropane-d6	6.33	67	92417	5.59	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	111.80%
41) Toluene-d8	7.56	98	285727	5.14	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	102.80%
43) trans-1,3-Dichloropropene-	7.85	79	34632	5.10	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	102.00%
46) 2-Hexanone-d5	8.31	63	174203	52.40	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	104.80%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	72159	4.86	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	97.20%
64) 1,2-Dichlorobenzene-d4	11.86	152	114078	5.13	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	102.60%

Target Compounds

						Qvalue
5) Vinyl chloride	1.40	62	6314	0.323	ug/L #	66
8) Chloroethane	1.69	64	1106	0.087	ug/L #	81
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	1304	0.073	ug/L #	19
12) 1,1-Dichloroethene	2.28	96	3151	0.185	ug/L #	1
13) Acetone	2.32	43	7797	3.208	ug/L	91
15) Methyl Acetate	2.44	43	13294	1.875	ug/L #	48
18) trans-1,2-Dichloroethene	2.98	96	1802	0.097	ug/L	80
22) cis-1,2-Dichloroethene	4.22	96	157087	9.272	ug/L	97
25) Chloroform	4.67	83	16501	0.572	ug/L	100
33) Benzene	5.39	78	3050	0.052	ug/L	100
34) Trichloroethene	6.18	95	1719871	105.393	ug/L	96
35) Methylcyclohexane	6.33	83	21993	0.831	ug/L #	21
37) 1,2-Dichloropropane	6.33	63	9545	0.648	ug/L #	86
39) cis-1,3-Dichloropropene	7.22	75	2326	0.108	ug/L #	52
42) Toluene	7.64	91	29174	0.440	ug/L	99
47) Tetrachloroethene	8.22	164	6487	0.428	ug/L	92
48) 2-Hexanone	8.37	43	4552	0.752	ug/L #	88

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU030119\
Quantitation Report (Not Reviewed)

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Quant Title : TRACE VOA SOM01.0
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Response via : Initial Calibration

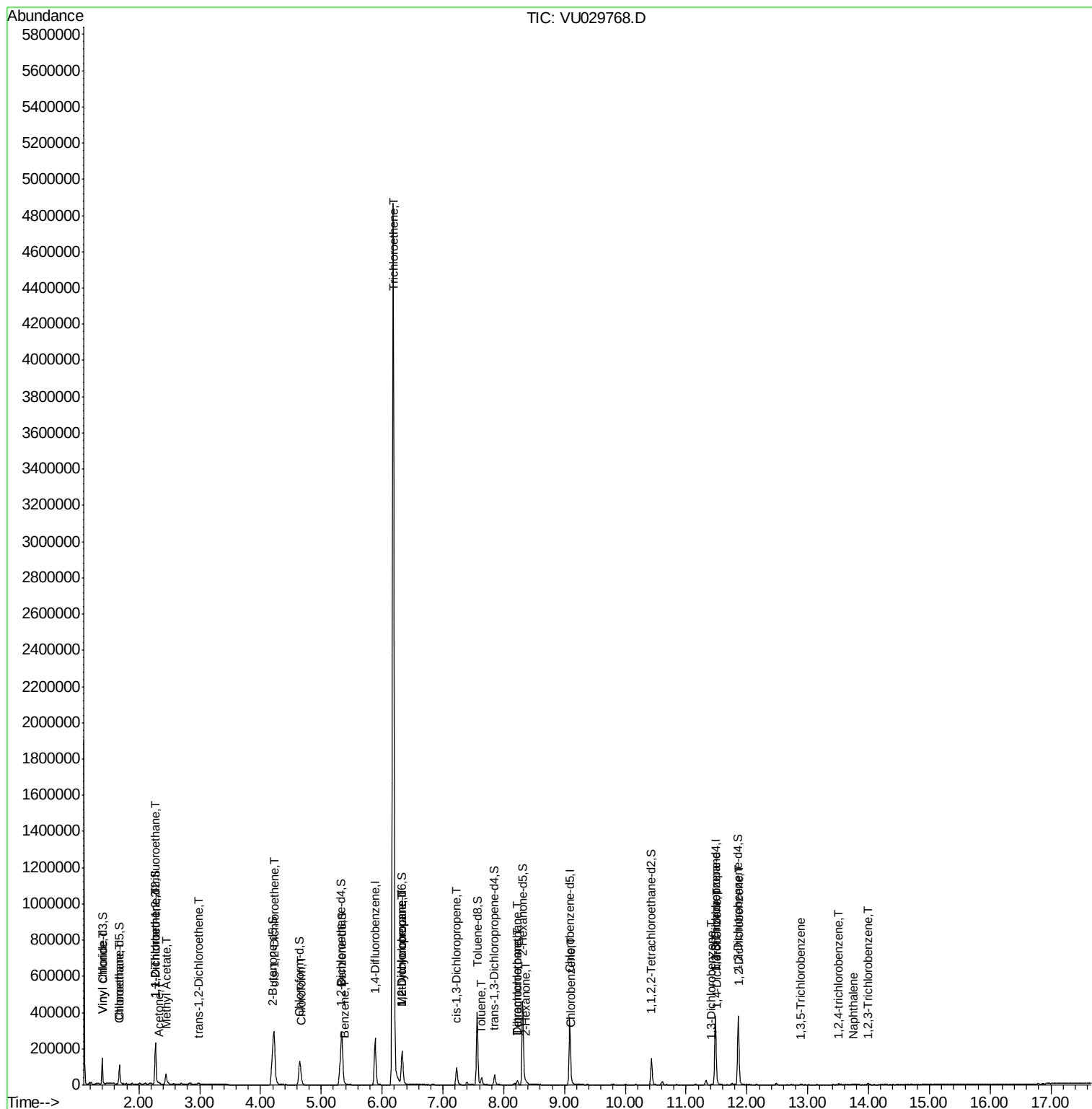
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) Dibromochloromethane	8.22	129	5450	0.390	ug/L #	12
51) Chlorobenzene	9.12	112	6028	0.132	ug/L	98
59) 1,2,3-Trichloropropane	11.48	75	11780	1.198	ug/L	93
62) 1,3-Dichlorobenzene	11.42	146	1852	0.052	ug/L #	80
63) 1,4-Dichlorobenzene	11.50	146	2804	0.077	ug/L #	71
65) 1,2-Dichlorobenzene	11.87	146	2107	0.061	ug/L #	70
67) 1,3,5-Trichlorobenzene	12.89	180	1864	0.064	ug/L	86
68) 1,2,4-trichlorobenzene	13.51	180	2453	0.100	ug/L	96
69) Naphthalene	13.75	128	5596	0.148	ug/L #	91
70) 1,2,3-Trichlorobenzene	13.99	180	3128	0.137	ug/L	91

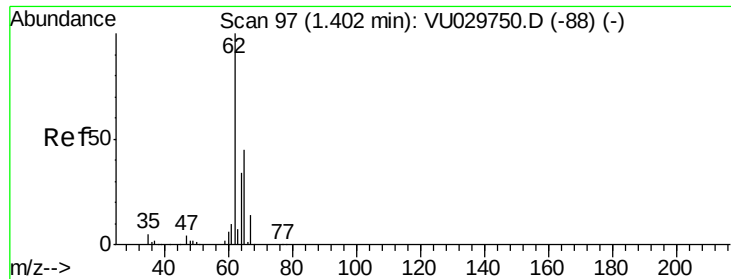
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 0.323 ug/L

RT: 1.40 min Scan# 97

Delta R.T. 0.00 min

Lab File: VU029768.D

Acq: 01 Mar 2019 17:18

Instrument :

MSVOA_U

ClientSampleId :

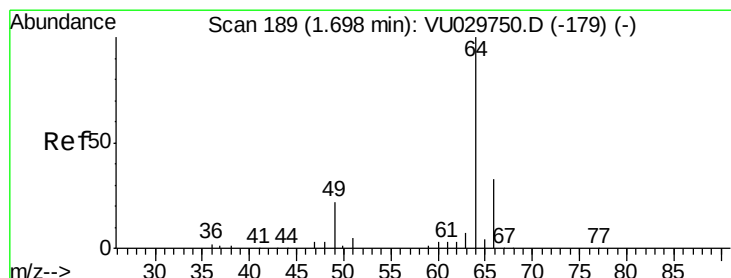
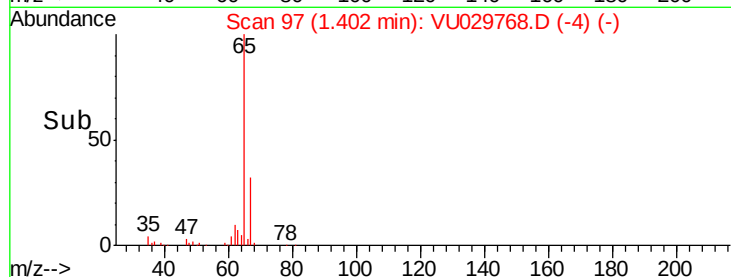
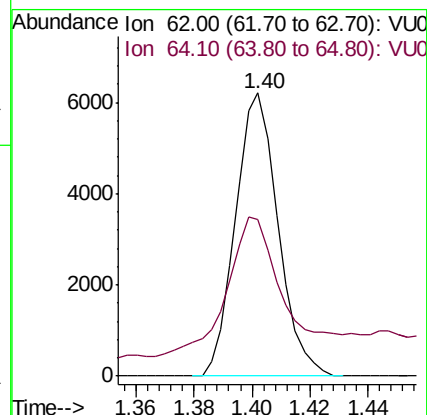
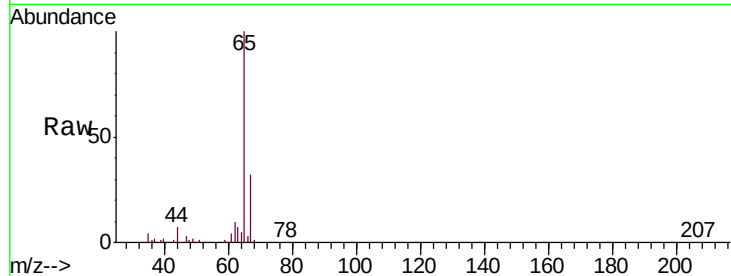
CWK00

Tgt Ion: 62 Resp: 6314

Ion Ratio Lower Upper

62 100

64 55.2 24.8 46.1#



#8

Chloroethane

Concen: 0.087 ug/L

RT: 1.69 min Scan# 188

Delta R.T. -0.00 min

Lab File: VU029768.D

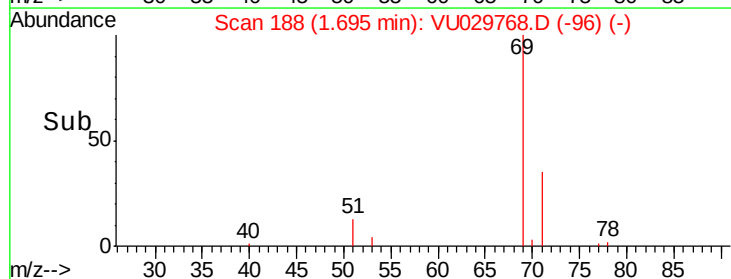
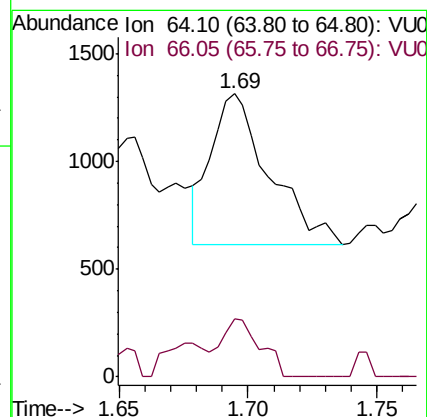
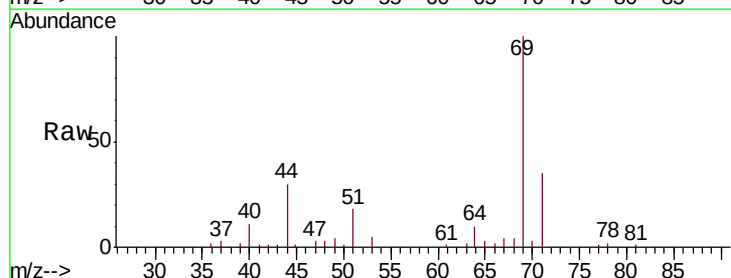
Acq: 01 Mar 2019 17:18

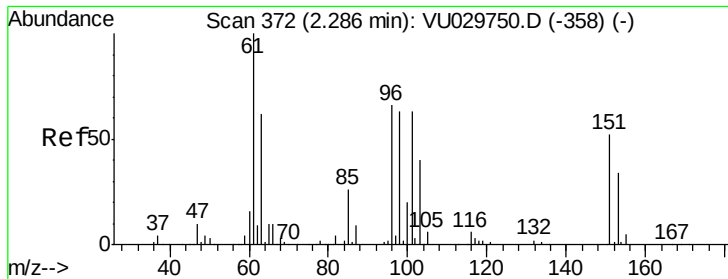
Tgt Ion: 64 Resp: 1106

Ion Ratio Lower Upper

64 100

66 20.4 21.4 39.8#





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.073 ug/L

RT: 2.27 min Scan# 368

Delta R.T. -0.01 min

Lab File: VU029768.D

Acq: 01 Mar 2019 17:18

Instrument :

MSVOA_U

ClientSampled :

CWK00

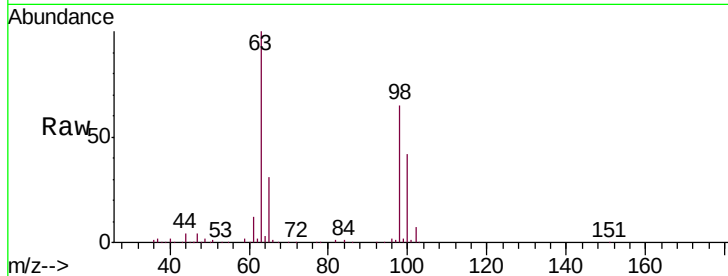
Tgt Ion: 101 Resp: 1304

Ion Ratio Lower Upper

101 100

85 0.0 32.8 49.2#

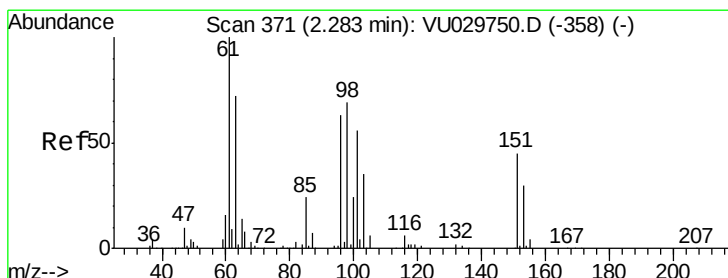
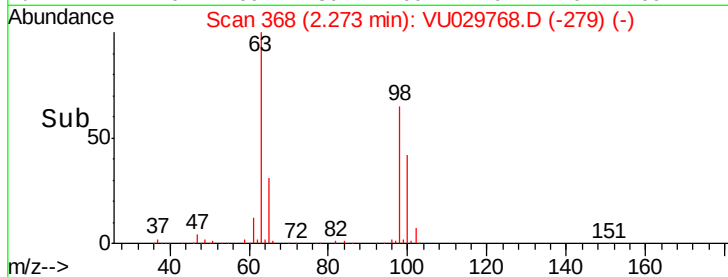
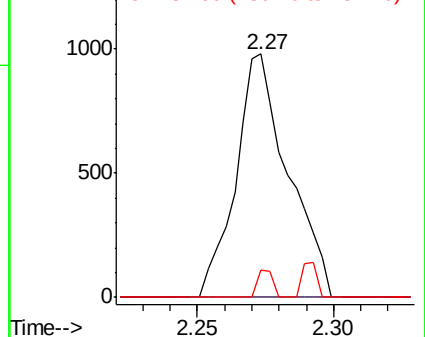
151 3.2 65.9 98.9#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 0.185 ug/L

RT: 2.28 min Scan# 371

Delta R.T. 0.00 min

Lab File: VU029768.D

Acq: 01 Mar 2019 17:18

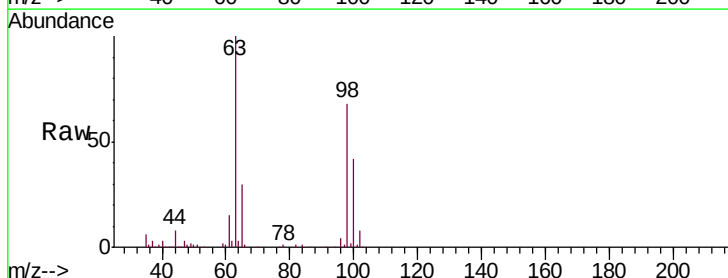
Tgt Ion: 96 Resp: 3151

Ion Ratio Lower Upper

96 100

61 427.4 111.3 206.7#

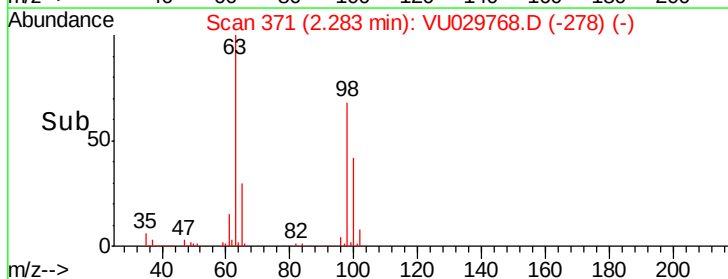
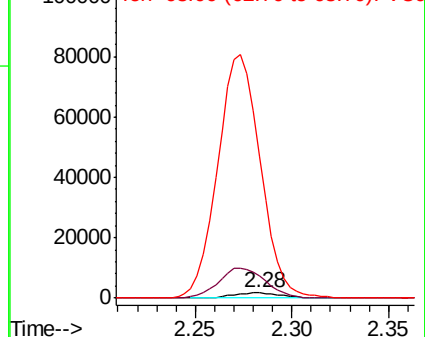
63 2795.5 88.5 164.3#

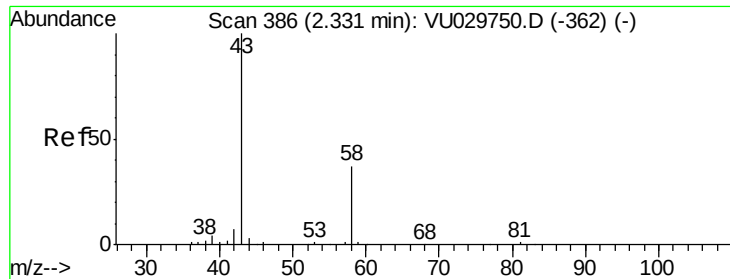


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 3.208 ug/L

RT: 2.32 min Scan# 384

Delta R.T. -0.01 min

Lab File: VU029768.D

Acq: 01 Mar 2019 17:18

Instrument :

MSVOA_U

ClientSampleId :

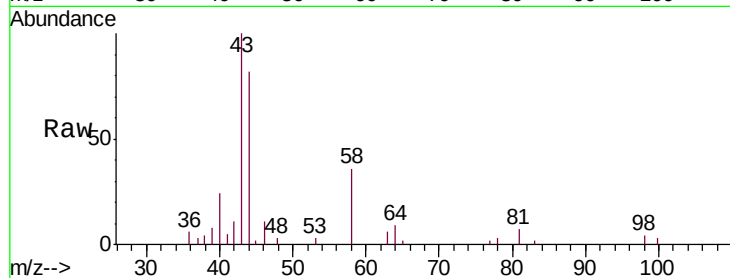
CWK00

Tgt Ion: 43 Resp: 7797

Ion Ratio Lower Upper

43 100

58 40.2 0.0 70.2



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0

6000

5000

4000

3000

2000

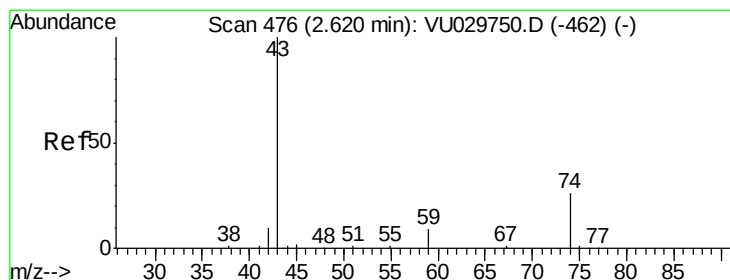
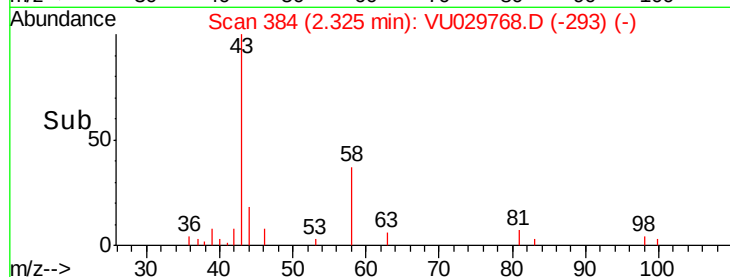
1000

0

Time-->

2.25 2.30 2.35

2.32



#15

Methyl Acetate

Concen: 1.875 ug/L

RT: 2.44 min Scan# 421

Delta R.T. -0.18 min

Lab File: VU029768.D

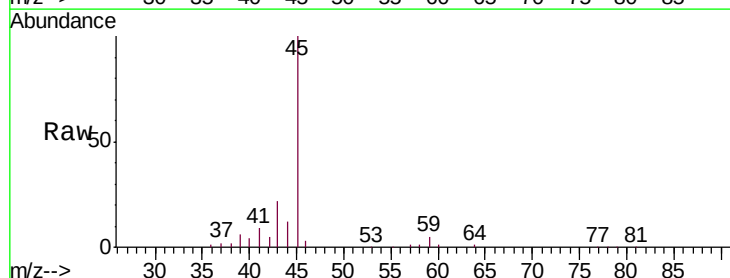
Acq: 01 Mar 2019 17:18

Tgt Ion: 43 Resp: 13294

Ion Ratio Lower Upper

43 100

74 0.0 21.6 32.4#



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 74.05 (73.75 to 74.75): VU0

8000

6000

4000

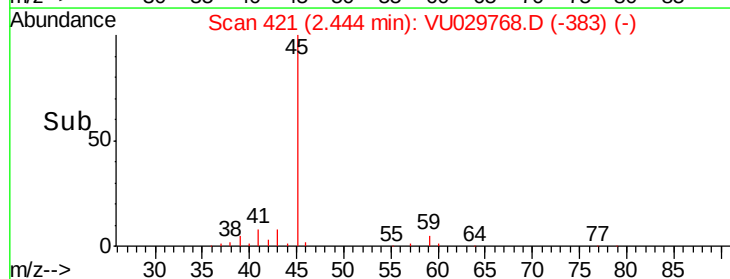
2000

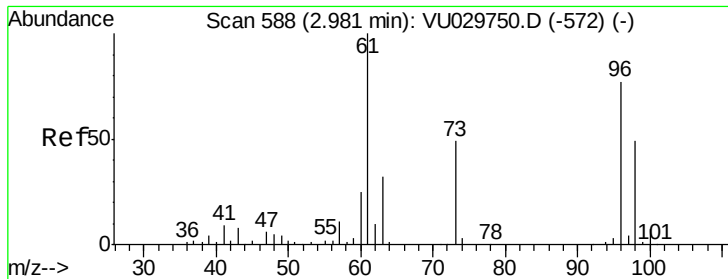
0

Time-->

2.40 2.45 2.50

2.44





#18

trans-1,2-Dichloroethene

Concen: 0.097 ug/L

RT: 2.98 min Scan# 587

Delta R.T. -0.00 min

Lab File: VU029768.D

Acq: 01 Mar 2019 17:18

Instrument :

MSVOA_U

ClientSampleId :

CWK00

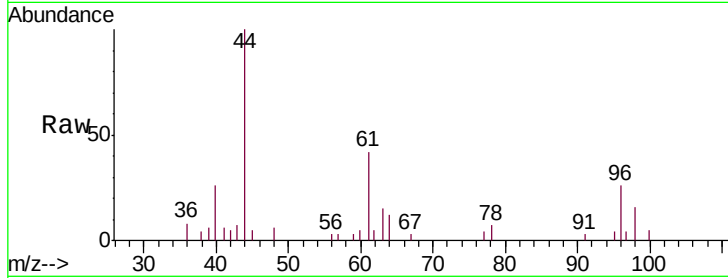
Tgt Ion: 96 Resp: 1802

Ion Ratio Lower Upper

96 100

61 160.6 90.3 167.7

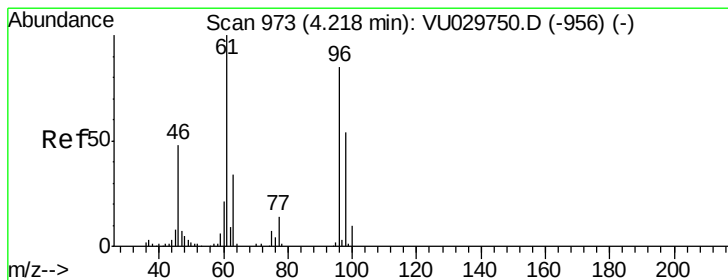
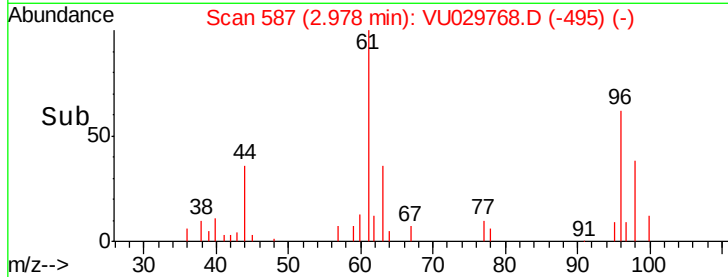
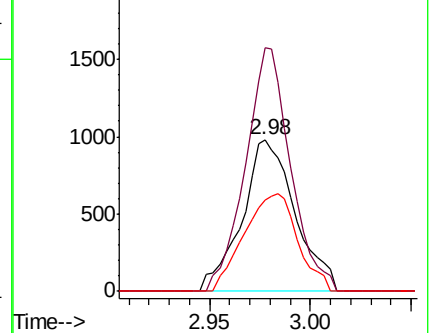
98 60.2 45.2 84.0



Abundance Ion 96.00 (95.70 to 96.70): VU029750.D (-572) (-)

Ion 61.05 (60.75 to 61.75): VU029750.D (-572) (-)

Ion 97.95 (97.65 to 98.65): VU029750.D (-572) (-)



#22

cis-1,2-Dichloroethene

Concen: 9.272 ug/L

RT: 4.22 min Scan# 974

Delta R.T. 0.00 min

Lab File: VU029768.D

Acq: 01 Mar 2019 17:18

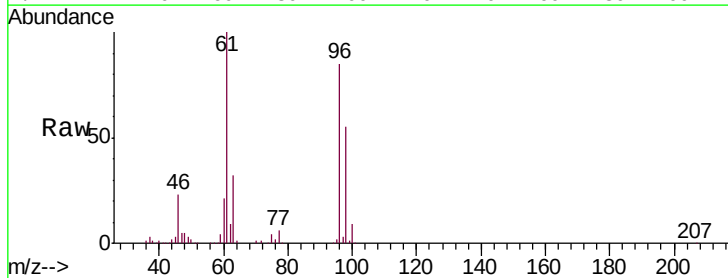
Tgt Ion: 96 Resp: 157087

Ion Ratio Lower Upper

96 100

61 117.7 80.2 149.0

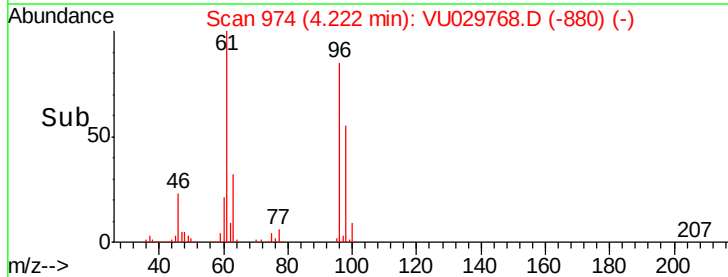
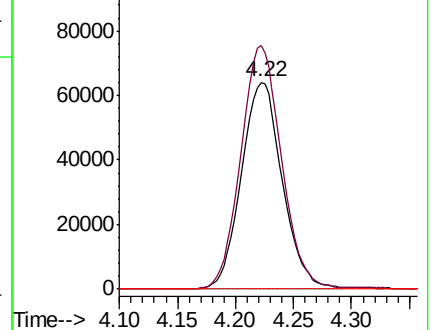
68 0.0 0.0 0.0

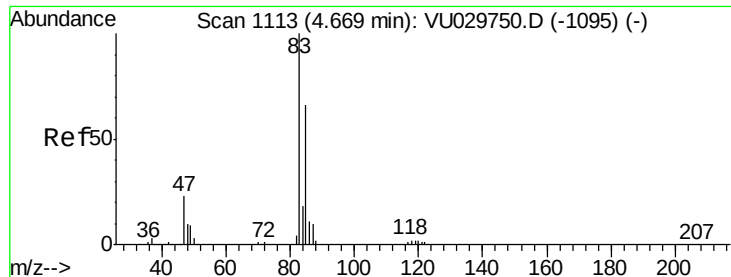


Abundance Ion 96.00 (95.70 to 96.70): VU029750.D (-956) (-)

Ion 61.05 (60.75 to 61.75): VU029750.D (-956) (-)

Ion 68.15 (67.85 to 68.85): VU029750.D (-956) (-)

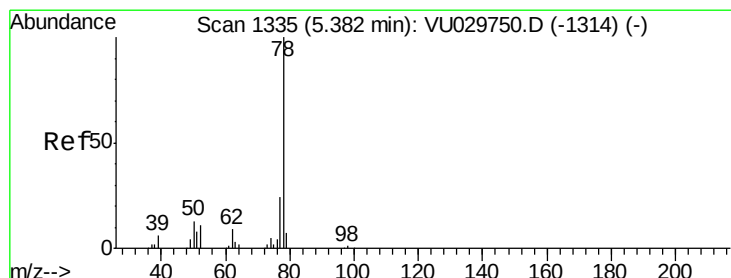
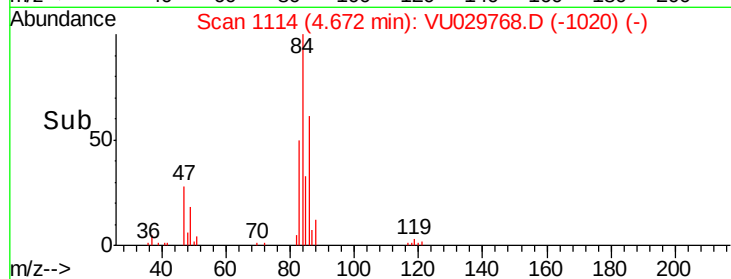
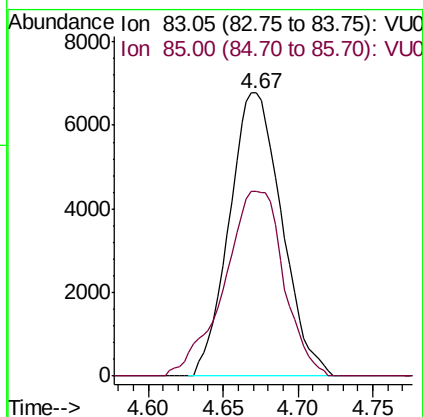
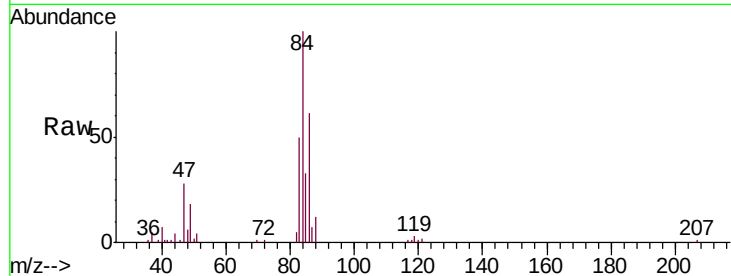




#25
Chloroform
Concen: 0.572 ug/L
RT: 4.67 min Scan# 1114
Delta R.T. 0.00 min
Lab File: VU029768.D
Acq: 01 Mar 2019 17:18

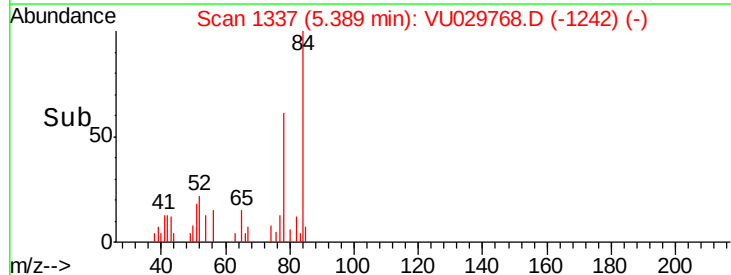
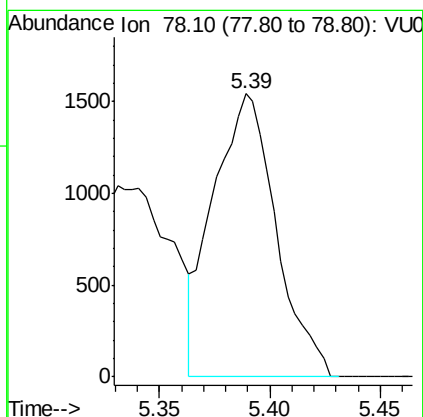
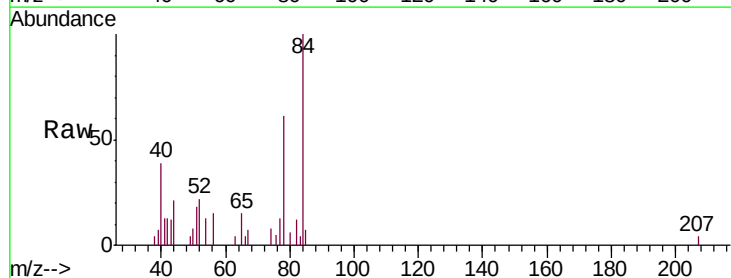
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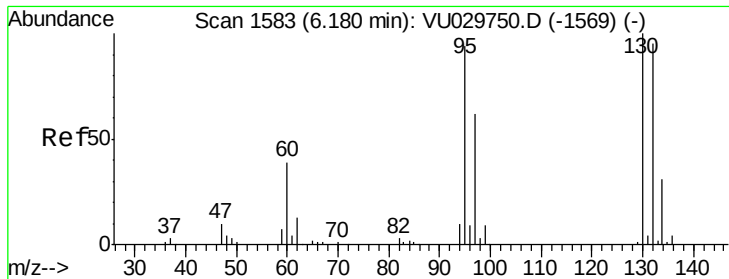
Tgt Ion: 83 Resp: 16501
Ion Ratio Lower Upper
83 100
85 65.2 45.6 84.6



#33
Benzene
Concen: 0.052 ug/L
RT: 5.39 min Scan# 1337
Delta R.T. 0.01 min
Lab File: VU029768.D
Acq: 01 Mar 2019 17:18

Tgt Ion: 78 Resp: 3050





#34

Trichloroethene

Concen: 105.393 ug/L

RT: 6.18 min Scan# 1583

Delta R.T. 0.00 min

Lab File: VU029768.D

Acq: 01 Mar 2019 17:18

Instrument :

MSVOA_U

ClientSampleID :

CWK00

Tgt Ion: 95 Resp: 1719871

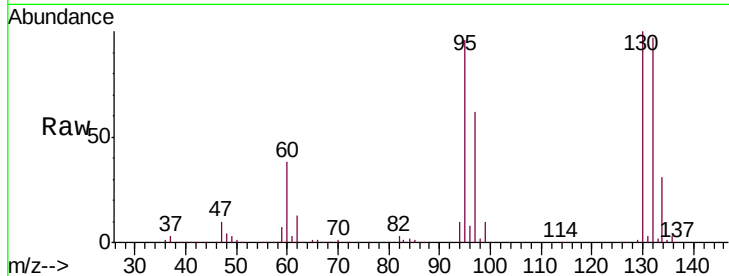
Ion Ratio Lower Upper

95 100

97 64.3 45.6 84.8

132 100.6 72.9 135.3

130 104.1 77.5 143.9

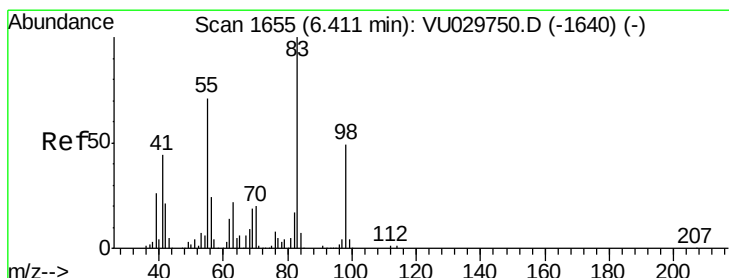
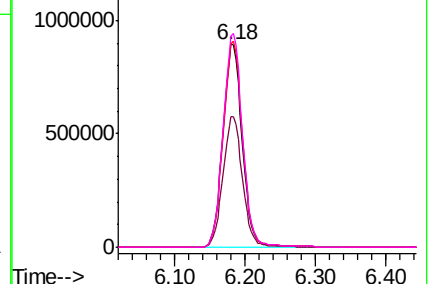
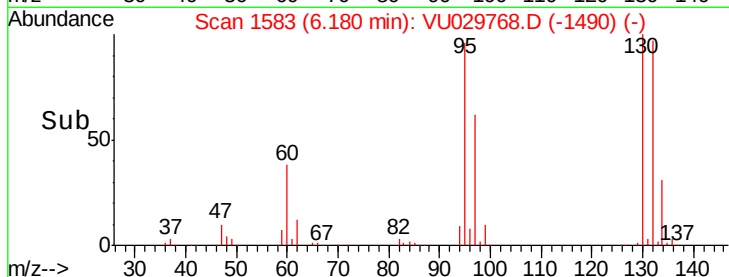


Abundance Ion 95.00 (94.70 to 95.70): VU029750.D (-1569) (-)

Ion 96.95 (96.65 to 97.65): VU029750.D (-1569) (-)

Ion 131.95 (131.65 to 132.65): VU029750.D (-1569) (-)

Ion 129.95 (129.65 to 130.65): VU029750.D (-1569) (-)



#35

Methylcyclohexane

Concen: 0.831 ug/L

RT: 6.33 min Scan# 1629

Delta R.T. -0.08 min

Lab File: VU029768.D

Acq: 01 Mar 2019 17:18

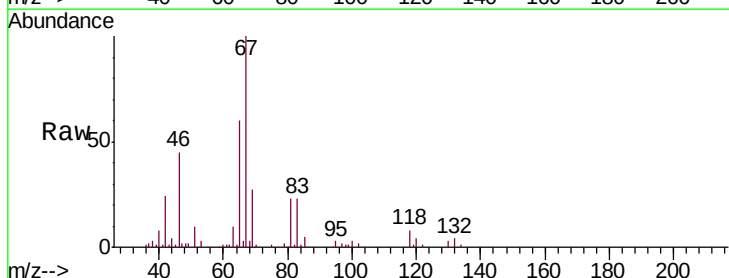
Tgt Ion: 83 Resp: 21993

Ion Ratio Lower Upper

83 100

55 0.8 56.5 84.7#

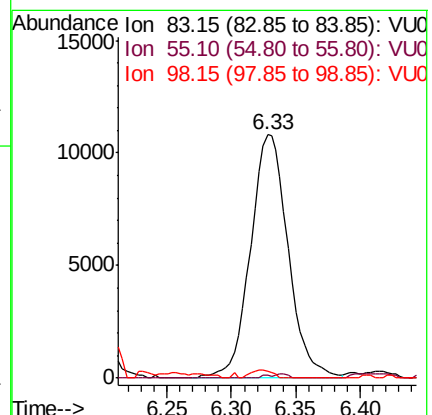
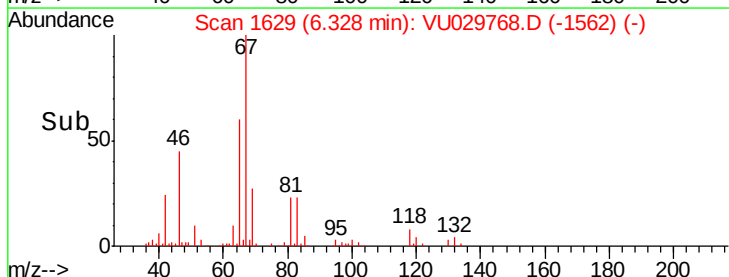
98 0.0 39.4 59.2#

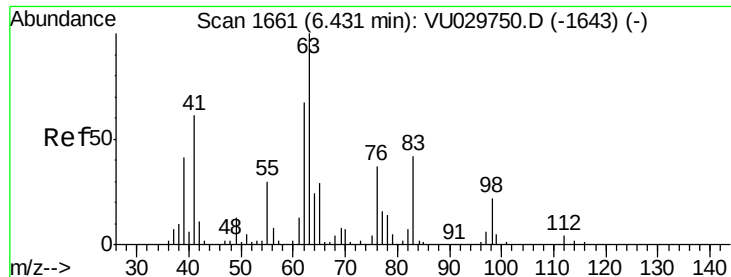


Abundance Ion 83.15 (82.85 to 83.85): VU029768.D (-1562) (-)

Ion 55.10 (54.80 to 55.80): VU029768.D (-1562) (-)

Ion 98.15 (97.85 to 98.85): VU029768.D (-1562) (-)

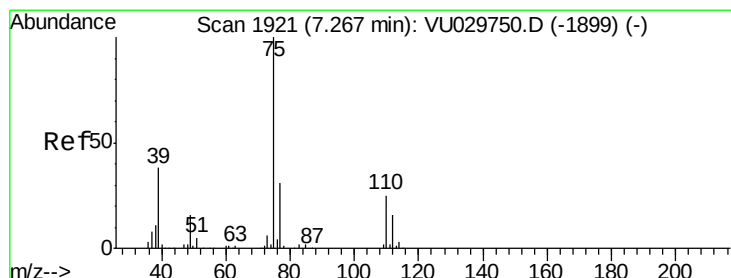
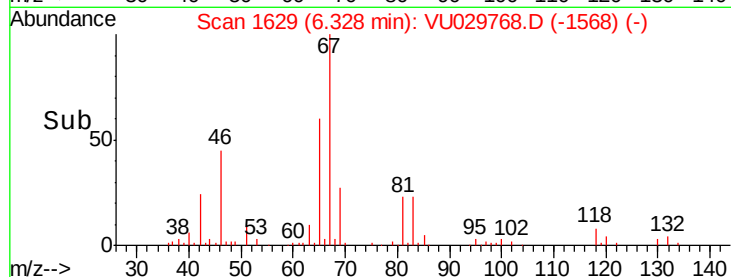
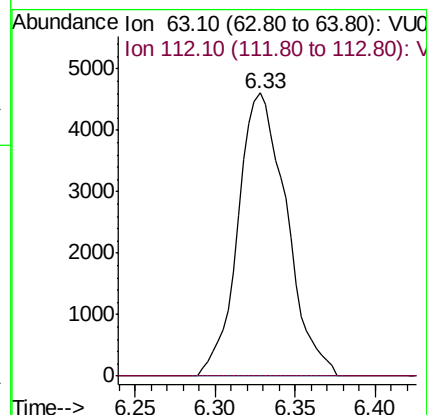
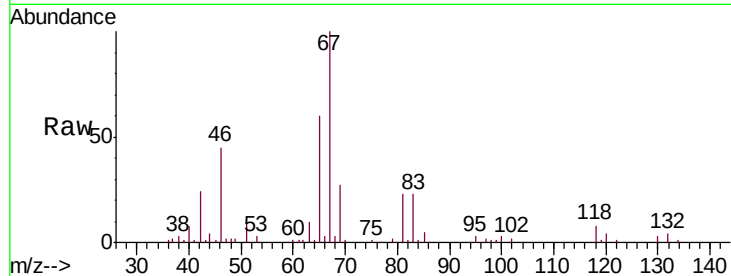




#37
 1,2-Dichloropropane
 Concen: 0.648 ug/L
 RT: 6.33 min Scan# 1629
 Delta R.T. -0.10 min
 Lab File: VU029768.D
 Acq: 01 Mar 2019 17:18

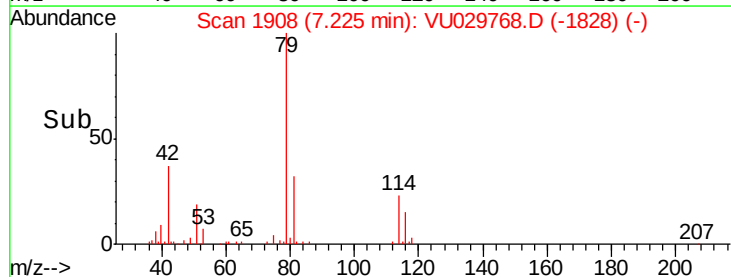
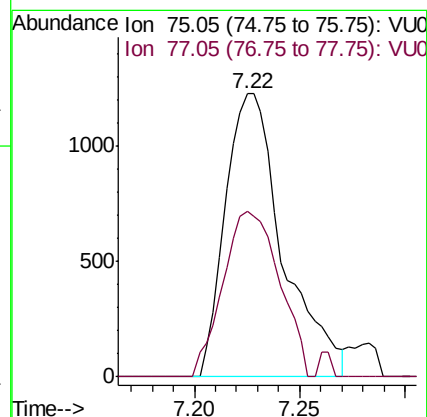
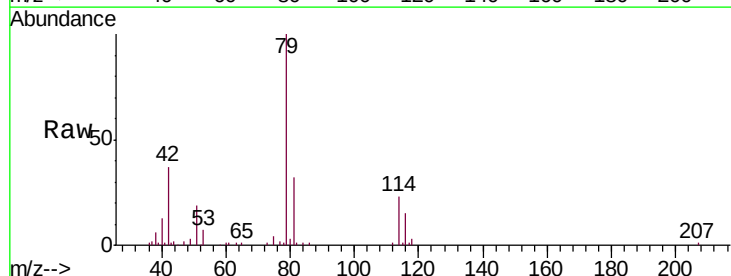
Instrument :
 MSVOA_U
 ClientSampleId :
 CWK00

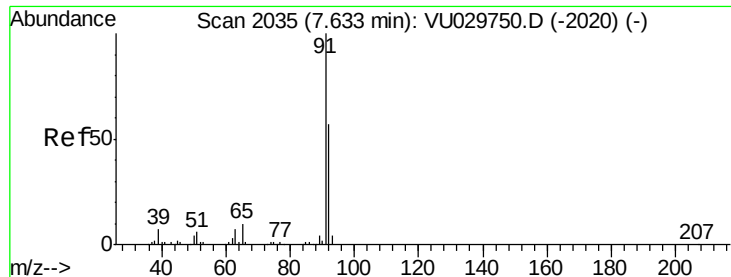
Tgt Ion: 63 Resp: 9545
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.6 5.4#



#39
 cis-1,3-Dichloropropene
 Concen: 0.108 ug/L
 RT: 7.22 min Scan# 1908
 Delta R.T. -0.04 min
 Lab File: VU029768.D
 Acq: 01 Mar 2019 17:18

Tgt Ion: 75 Resp: 2326
 Ion Ratio Lower Upper
 75 100
 77 58.4 22.3 41.5#





#42

Toluene

Concen: 0.440 ug/L

RT: 7.64 min Scan# 2036

Delta R.T. 0.00 min

Lab File: VU029768.D

Acq: 01 Mar 2019 17:18

Instrument :

MSVOA_U

ClientSampled :

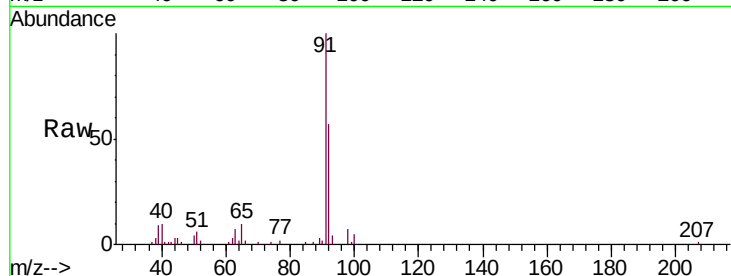
CWK00

Tgt Ion: 91 Resp: 29174

Ion Ratio Lower Upper

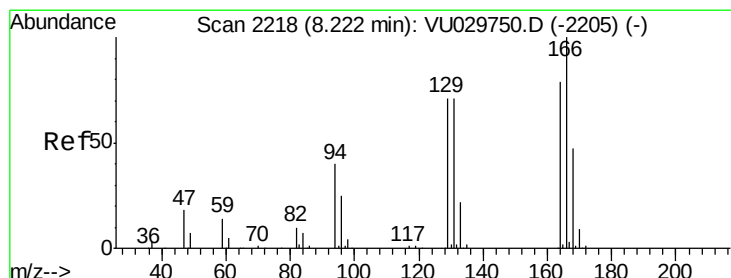
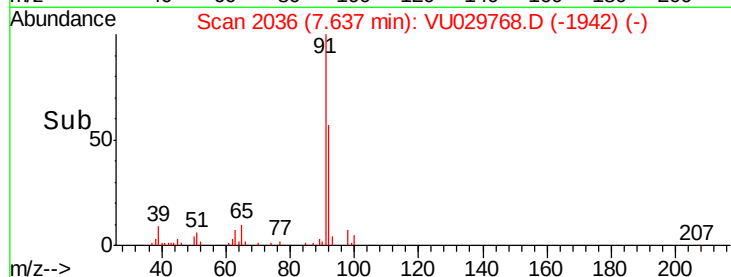
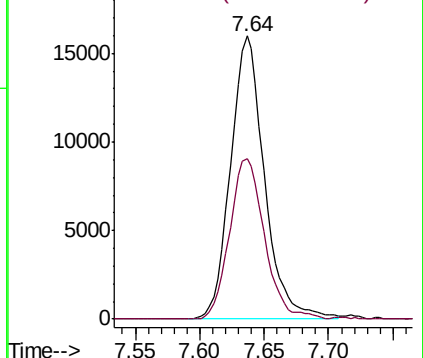
91 100

92 56.7 40.1 74.5



Abundance Ion 91.15 (90.85 to 91.85): VU0

Ion 92.15 (91.85 to 92.85): VU0



#47

Tetrachloroethene

Concen: 0.428 ug/L

RT: 8.22 min Scan# 2219

Delta R.T. 0.00 min

Lab File: VU029768.D

Acq: 01 Mar 2019 17:18

Tgt Ion: 164 Resp: 6487

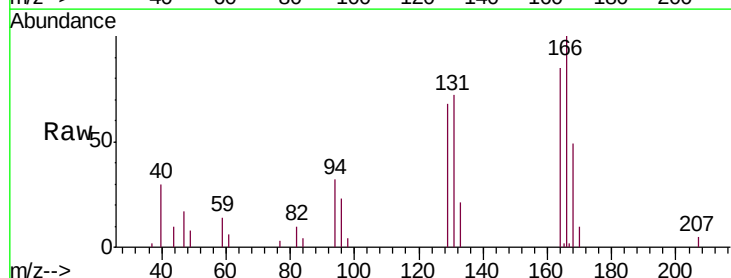
Ion Ratio Lower Upper

164 100

129 79.5 62.9 116.7

131 83.8 61.8 114.8

166 117.0 88.8 164.8

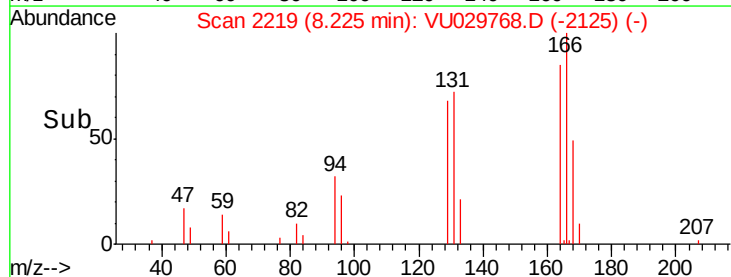
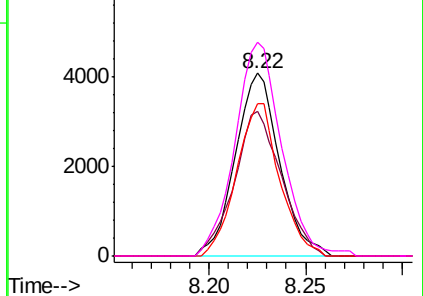


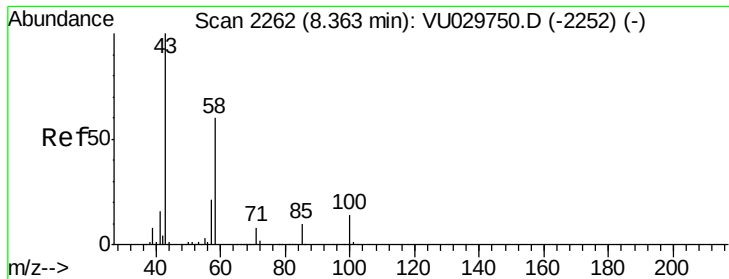
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V

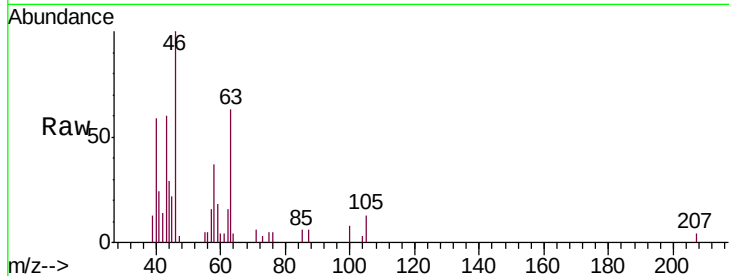




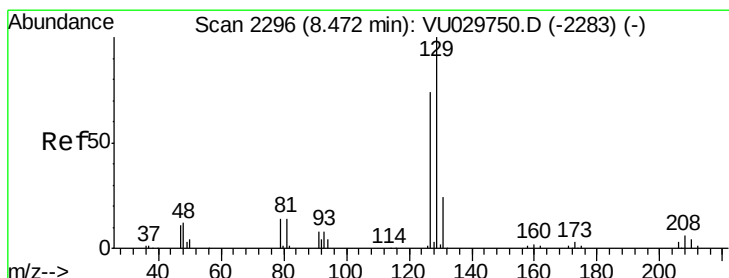
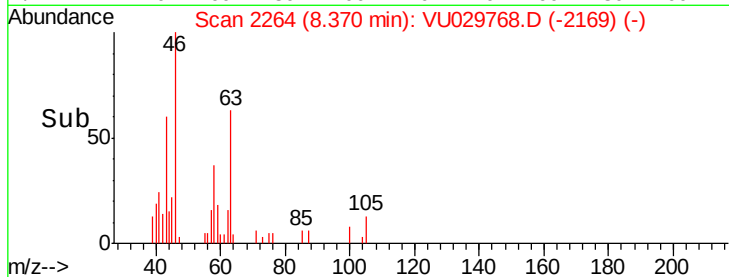
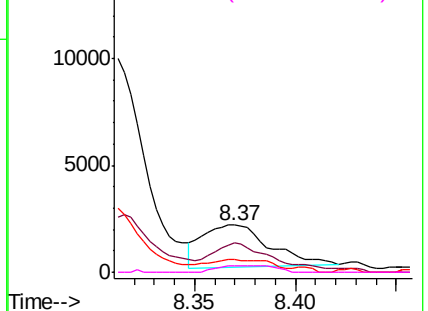
#48
2-Hexanone
Concen: 0.752 ug/L
RT: 8.37 min Scan# 2264
Delta R.T. 0.01 min
Lab File: VU029768.D
Acq: 01 Mar 2019 17:18

Instrument :
MSVOA_U
ClientSampleId :
CWK00

Tgt Ion: 43 Resp: 4552
Ion Ratio Lower Upper
43 100
58 50.5 46.6 69.8
57 30.1 15.9 23.9#
100 12.9 11.4 17.2

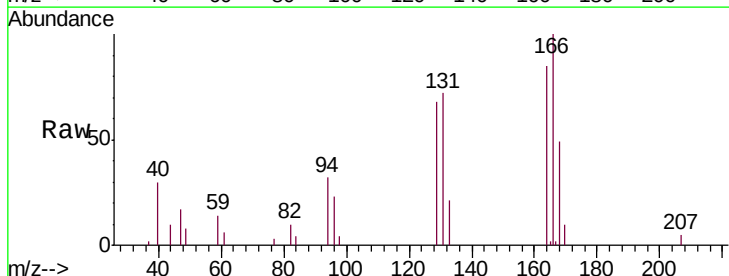


Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0
Ion 57.20 (56.90 to 57.90): VU0
Ion 100.15 (99.85 to 100.85): VU0

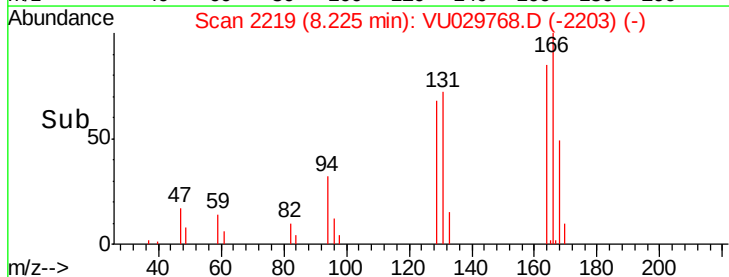
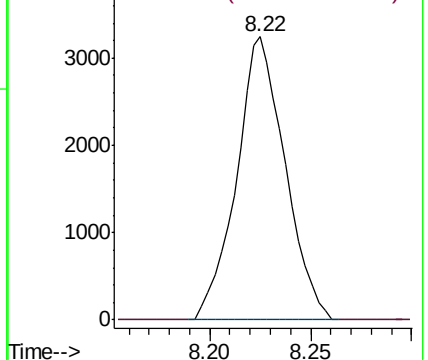


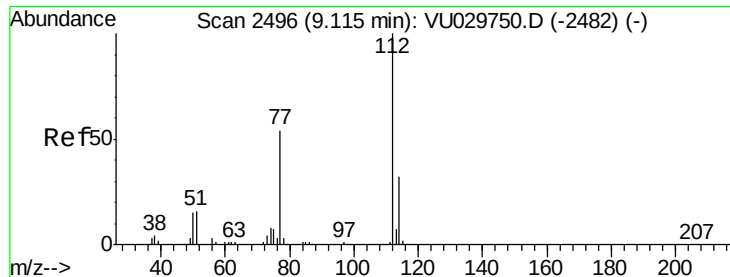
#49
Dibromochloromethane
Concen: 0.390 ug/L
RT: 8.22 min Scan# 2219
Delta R.T. -0.25 min
Lab File: VU029768.D
Acq: 01 Mar 2019 17:18

Tgt Ion: 129 Resp: 5450
Ion Ratio Lower Upper
129 100
127 0.0 52.5 97.5#



Abundance Ion 128.95 (128.65 to 129.65): V
Ion 126.90 (126.60 to 127.60): V





#51

Chlorobenzene

Concen: 0.132 ug/L

RT: 9.12 min Scan# 2497

Delta R.T. 0.00 min

Lab File: VU029768.D

Acq: 01 Mar 2019 17:18

Instrument :

MSVOA_U

ClientSampleId :

CWK00

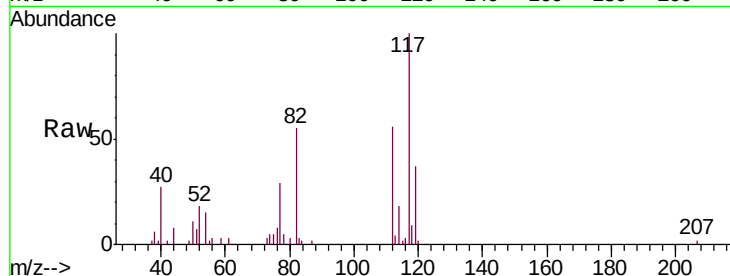
Tgt Ion: 112 Resp: 6028

Ion Ratio Lower Upper

112 100

114 32.4 22.3 41.3

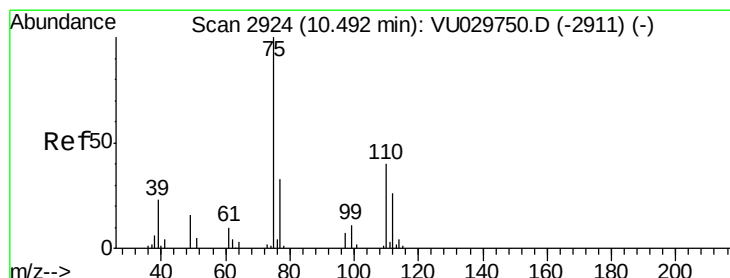
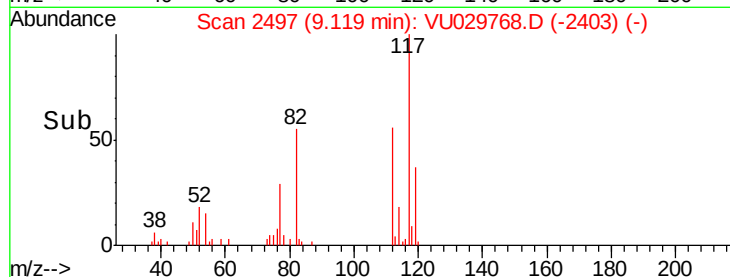
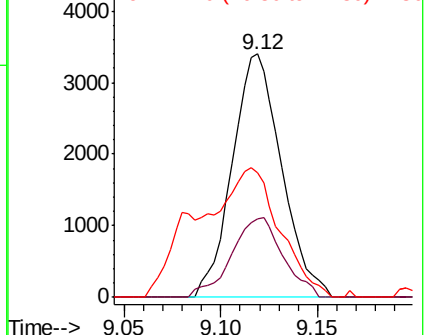
77 51.4 42.7 64.1



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): VU0



#59

1,2,3-Trichloropropane

Concen: 1.198 ug/L

RT: 11.48 min Scan# 3231

Delta R.T. 0.99 min

Lab File: VU029768.D

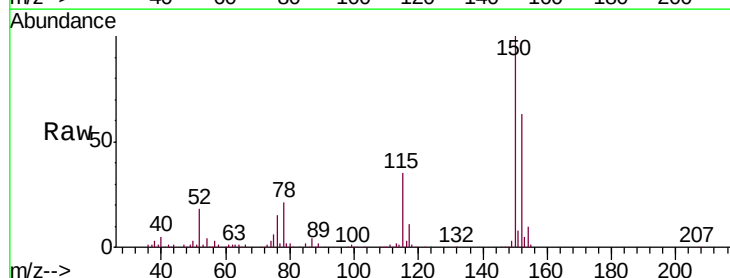
Acq: 01 Mar 2019 17:18

Tgt Ion: 75 Resp: 11780

Ion Ratio Lower Upper

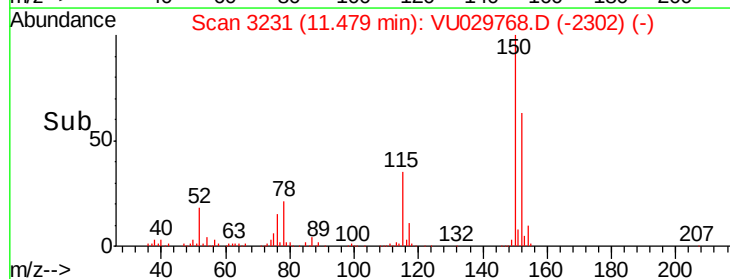
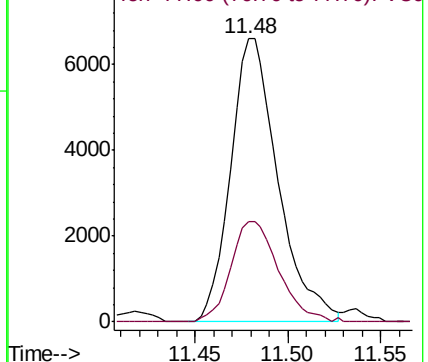
75 100

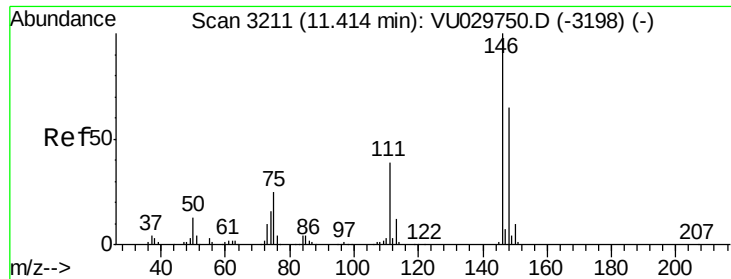
77 35.7 25.6 38.4



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

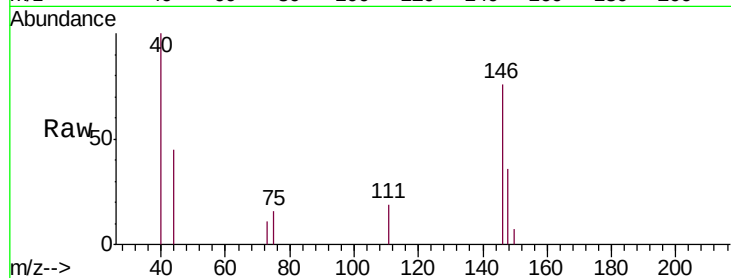




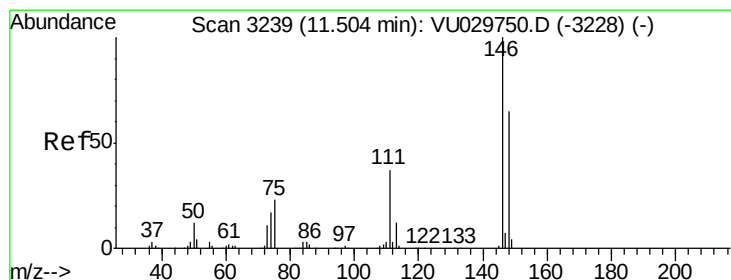
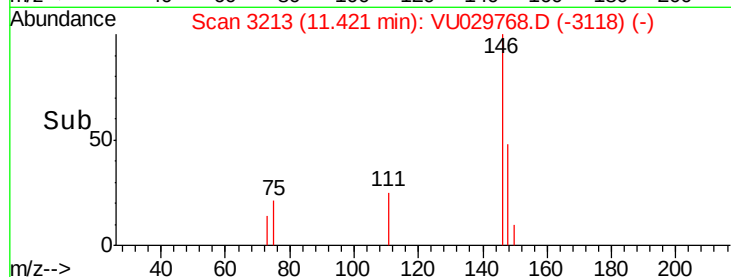
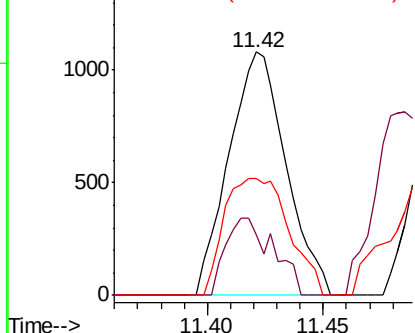
#62
 1,3-Dichlorobenzene
 Concen: 0.052 ug/L
 RT: 11.42 min Scan# 3213
 Delta R.T. 0.01 min
 Lab File: VU029768.D
 Acq: 01 Mar 2019 17:18

Instrument :
 MSVOA_U
 ClientSampled :
 CWK00

Tgt Ion:146 Resp: 1852
 Ion Ratio Lower Upper
 146 100
 111 24.9 25.7 47.7#
 148 47.9 44.0 81.8

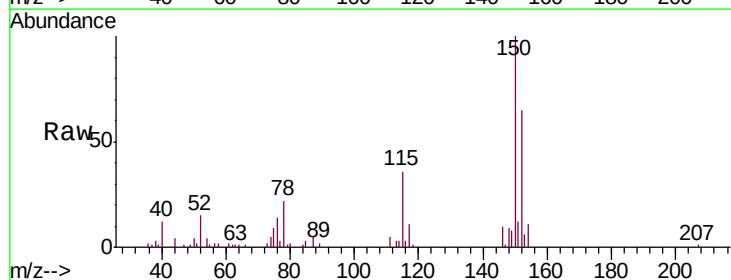


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

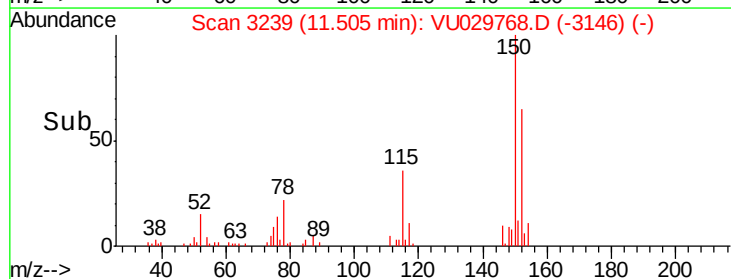
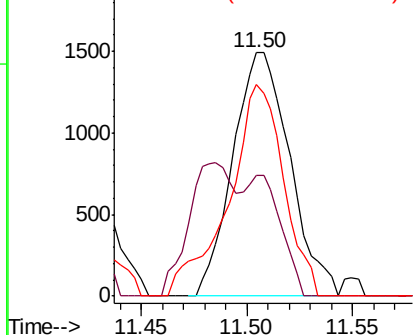


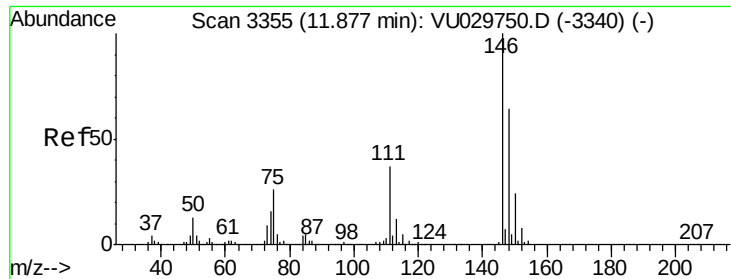
#63
 1,4-Dichlorobenzene
 Concen: 0.077 ug/L
 RT: 11.50 min Scan# 3239
 Delta R.T. 0.00 min
 Lab File: VU029768.D
 Acq: 01 Mar 2019 17:18

Tgt Ion:146 Resp: 2804
 Ion Ratio Lower Upper
 146 100
 111 49.7 25.4 47.2#
 148 87.1 43.7 81.1#



Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 0.061 ug/L

RT: 11.87 min Scan# 3354

Delta R.T. -0.00 min

Lab File: VU029768.D

Acq: 01 Mar 2019 17:18

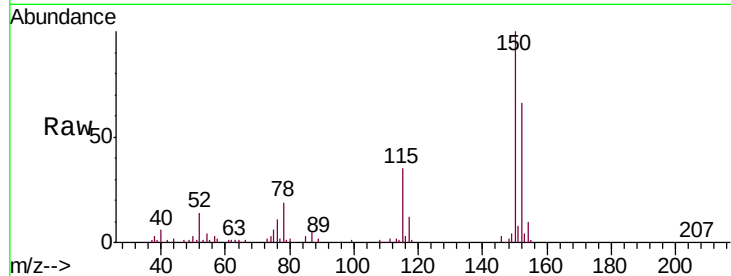
Instrument :

MSVOA_U

ClientSampleId :

CWK00

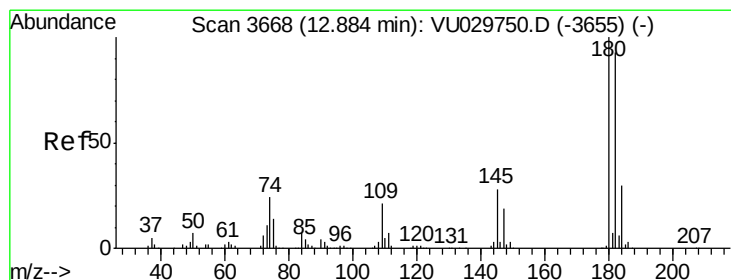
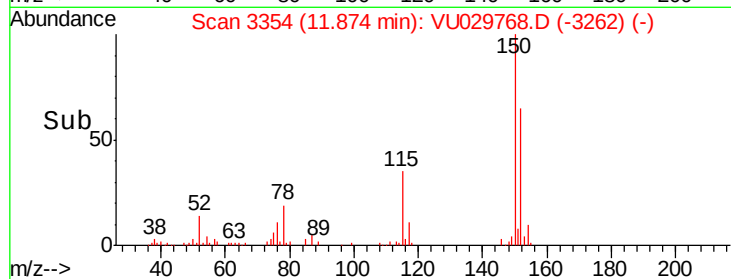
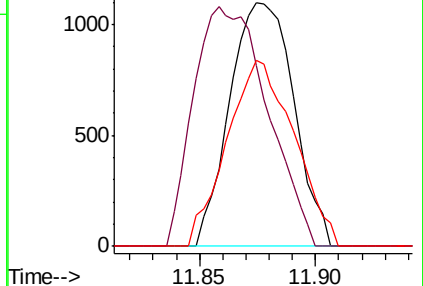
Tgt Ion:	146	Resp:	2107
Ion	Ratio	Lower	Upper
146	100		
111	74.5	32.2	48.2#
148	76.7	52.2	78.4



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#67

1,3,5-Trichlorobenzene

Concen: 0.064 ug/L

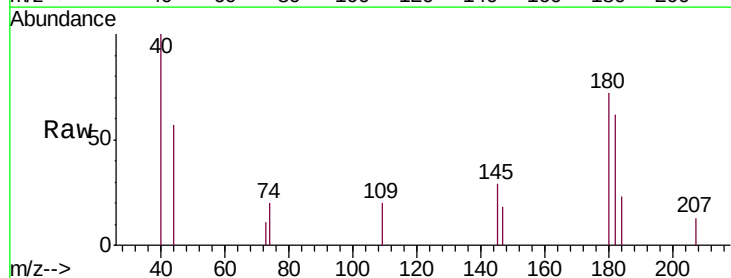
RT: 12.89 min Scan# 3670

Delta R.T. 0.01 min

Lab File: VU029768.D

Acq: 01 Mar 2019 17:18

Tgt Ion:	180	Resp:	1864
Ion	Ratio	Lower	Upper
180	100		
182	80.5	77.0	115.6
184	26.2	25.0	37.4
145	22.4	22.4	33.6

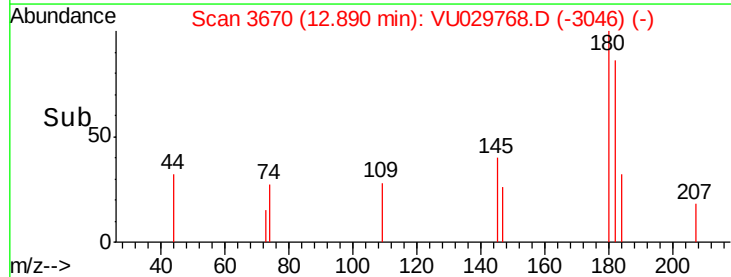
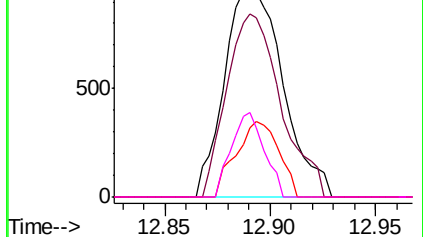


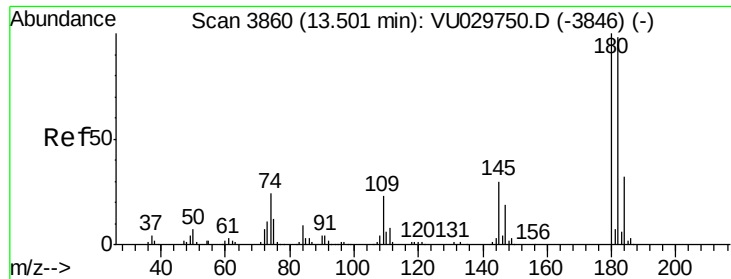
Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V

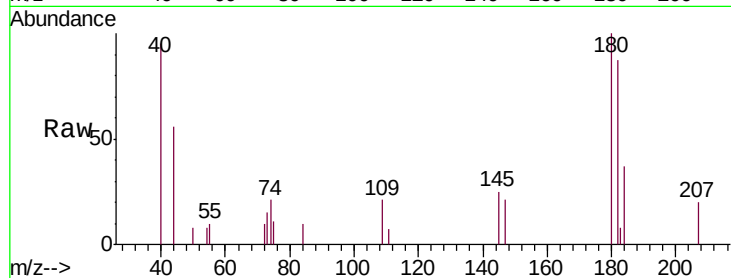




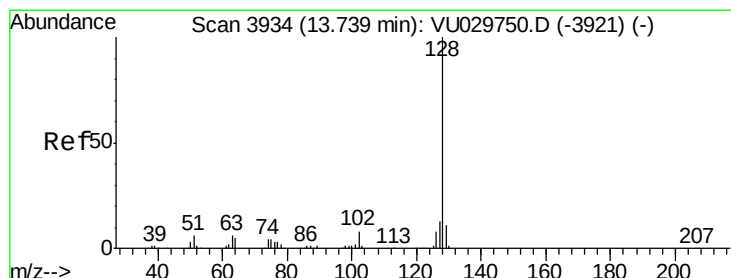
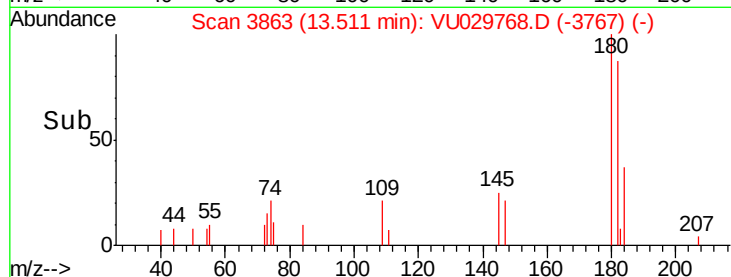
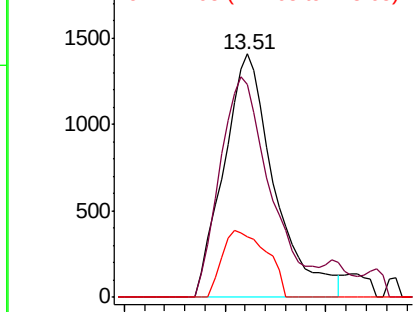
#68
 1,2,4-trichlorobenzene
 Concen: 0.100 ug/L
 RT: 13.51 min Scan# 3863
 Delta R.T. 0.01 min
 Lab File: VU029768.D
 Acq: 01 Mar 2019 17:18

Instrument :
 MSVOA_U
 ClientSampleId :
 CWK00

Tgt Ion:180 Resp: 2453
 Ion Ratio Lower Upper
 180 100
 182 91.5 75.7 113.5
 145 24.3 22.4 33.6

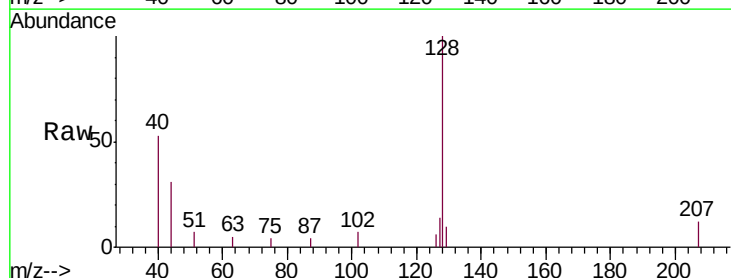


Abundance Ion 179.90 (179.60 to 180.60): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 144.95 (144.65 to 145.65): V

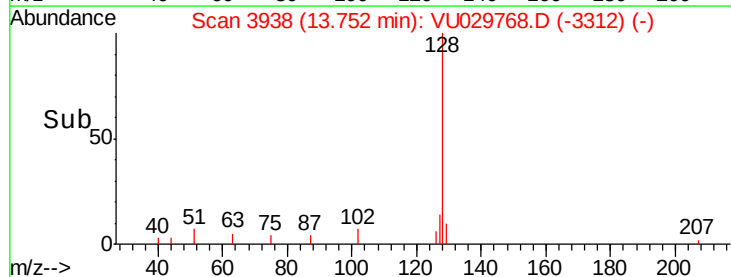
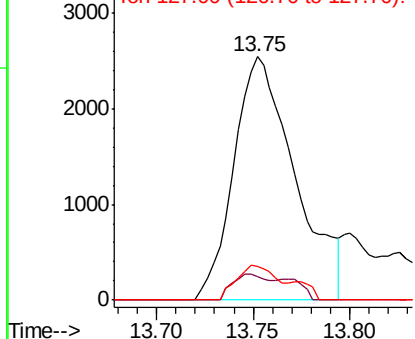


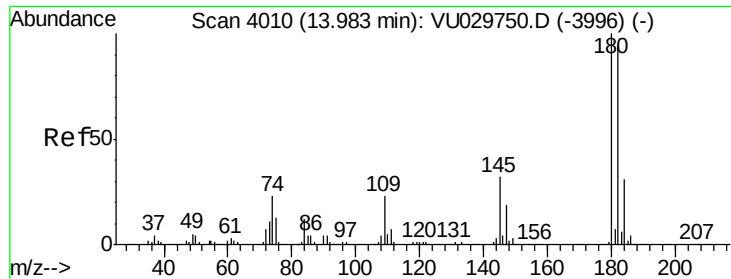
#69
 Naphthalene
 Concen: 0.148 ug/L
 RT: 13.75 min Scan# 3938
 Delta R.T. 0.01 min
 Lab File: VU029768.D
 Acq: 01 Mar 2019 17:18

Tgt Ion:128 Resp: 5596
 Ion Ratio Lower Upper
 128 100
 129 6.7 8.7 13.1#
 127 9.5 10.0 15.0#



Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 129.00 (128.70 to 129.70): V
 Ion 127.00 (126.70 to 127.70): V

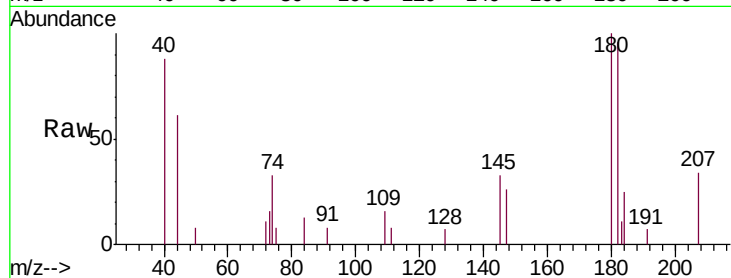




#70
 1,2,3-Trichlorobenzene
 Concen: 0.137 ug/L
 RT: 13.99 min Scan# 4012
 Delta R.T. 0.01 min
 Lab File: VU029768.D
 Acq: 01 Mar 2019 17:18

Instrument :
 MSVOA_U
 ClientSampleId :
 CWK00

Tgt Ion:180 Resp: 3128
 Ion Ratio Lower Upper
 180 100
 182 85.3 77.0 115.4
 145 27.9 24.2 36.2



Abundance Ion 179.90 (179.60 to 180.60): V
 2000 Ion 181.90 (181.60 to 182.60): V
 Ion 144.95 (144.65 to 145.65): V

