

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU093020\
 Data File : VU040398.D
 Acq On : 30 Sep 2020 14:53
 Operator : SY/MD
 Sample : L4139-11
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BG4A3

Quant Time: Oct 01 03:07:37 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR092920WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu Oct 01 03:05:40 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	135883	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	136727	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	68016	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	28030	4.17	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	83.40%
7) Chloroethane-d5	1.92	69	27245	4.63	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	92.60%
11) 1,1-Dichloroethene-d2	2.58	63	45172	2.79	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	55.80%#
20) 2-Butanone-d5	4.66	46	164843	49.33	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	98.66%
24) Chloroform-d	5.09	84	74130	4.63	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.60%
26) 1,2-Dichloroethane-d4	5.72	65	44906	4.60	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	92.00%
32) Benzene-d6	5.75	84	123959	4.51	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	90.20%
36) 1,2-Dichloropropane-d6	6.70	67	46630	4.64	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	92.80%
41) Toluene-d8	7.91	98	97084	4.07	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	81.40%
43) trans-1,3-Dichloropropene-	8.19	79	16559	4.04	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	80.80%
46) 2-Hexanone-d5	8.64	63	110761	45.89	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	91.78%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	45651	4.67	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	93.40%
64) 1,2-Dichlorobenzene-d4	12.19	152	52259	5.07	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	101.40%

Target Compounds

					Ovalue
3) Chloromethane	1.53	50	1236	0.092 ug/L	88
8) Chloroethane	1.94	64	3313	0.426 ug/L #	61
13) Acetone	2.66	43	3279	1.178 ug/L	81
14) Carbon disulfide	2.81	76	1571	0.048 ug/L #	75
17) Methyl tert-butyl Ether	3.38	73	16113	0.565 ug/L #	87
25) Chloroform	5.11	83	3291	0.147 ug/L	80
27) 1,2-Dichloroethane	5.79	62	8484	0.547 ug/L #	74
30) Cyclohexane	5.40	56	2273	0.118 ug/L #	89
33) Benzene	5.79	78	875200	19.092 ug/L	100
35) Methylcyclohexane	6.77	83	1597	0.089 ug/L #	84
37) 1,2-Dichloropropane	6.70	63	5224	0.409 ug/L #	89
39) cis-1,3-Dichloropropene	7.57	75	1178	0.069 ug/L #	74
42) Toluene	7.98	91	9655	0.205 ug/L	96
44) trans-1,3-Dichloropropene	8.19	75	913	0.058 ug/L	99
51) Chlorobenzene	9.45	112	303263	9.979 ug/L	97
52) Ethylbenzene	9.57	91	74920	1.469 ug/L	99
53) m,p-Xylene	9.69	106	160234	8.432 ug/L	99

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Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Oct 01 03:05:40 2020
Response via : Initial Calibration

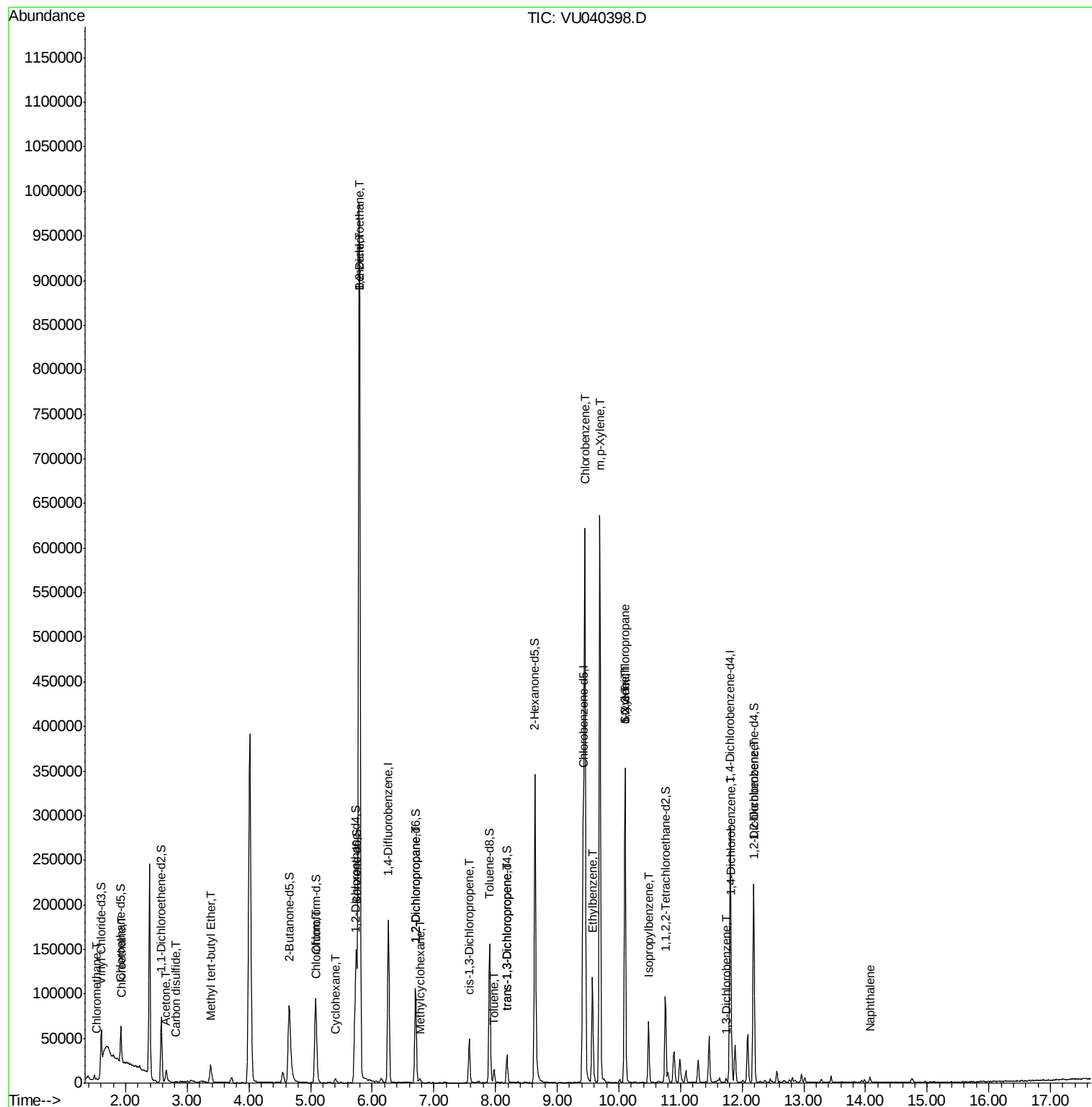
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) o-Xylene	10.10	106	85810	4.800	ug/L	97
55) Styrene	10.10	104	5340	0.171	ug/L #	1
56) Isopropylbenzene	10.48	105	40270	0.835	ug/L	99
59) 1,2,3-Trichloropropane	10.10	75	2449	0.265	ug/L #	1
62) 1,3-Dichlorobenzene	11.74	146	1462	0.065	ug/L	84
63) 1,4-Dichlorobenzene	11.83	146	9663	0.413	ug/L	96
65) 1,2-Dichlorobenzene	12.20	146	4879	0.223	ug/L	92
69) Naphthalene	14.08	128	5061	0.229	ug/L #	96

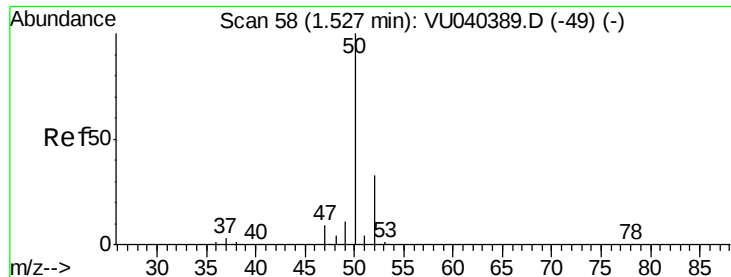
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.092 ug/L

RT: 1.53 min Scan# 58

Delta R.T. 0.00 min

Lab File: VU040398.D

Acq: 30 Sep 2020 14:53

Instrument :

MSVOA_U

ClientSampleId :

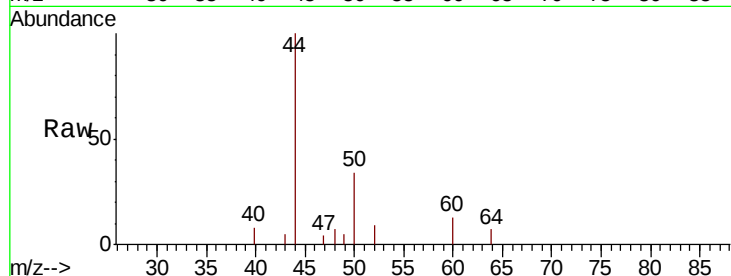
BG4A3

Tot Ion: 50 Resp: 1236

Ion Ratio Lower Upper

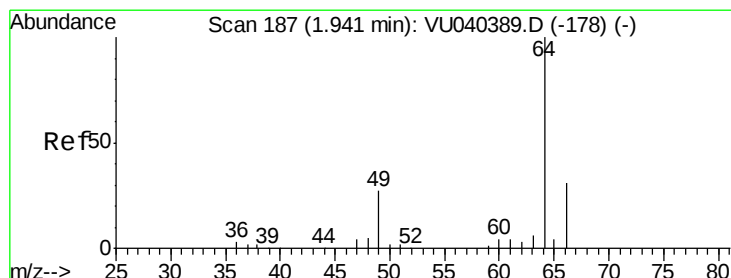
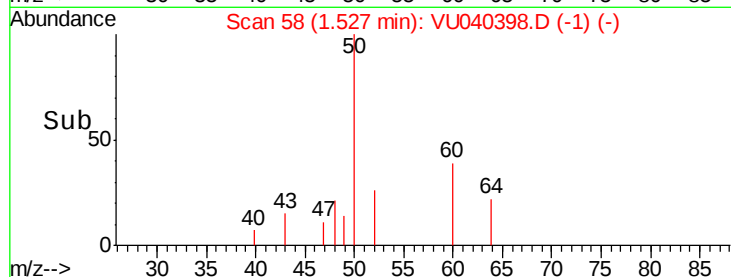
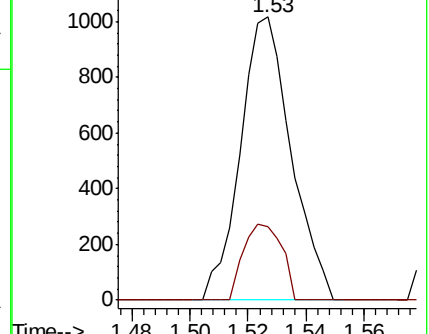
50 100

52 25.8 23.0 42.6



Abundance Ion 50.05 (49.75 to 50.75): VU040389.D (-49) (-)

Ion 52.05 (51.75 to 52.75): VU040389.D (-49) (-)



#8

Chloroethane

Concen: 0.426 ug/L

RT: 1.94 min Scan# 187

Delta R.T. 0.00 min

Lab File: VU040398.D

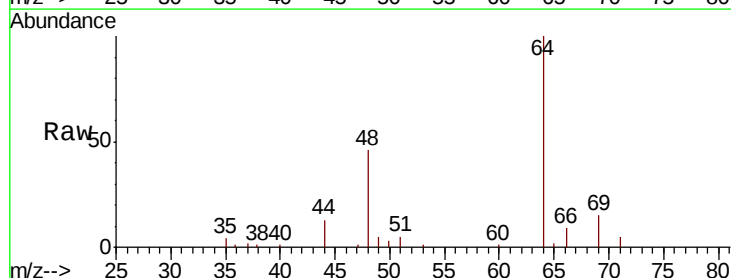
Acq: 30 Sep 2020 14:53

Tgt Ion: 64 Resp: 3313

Ion Ratio Lower Upper

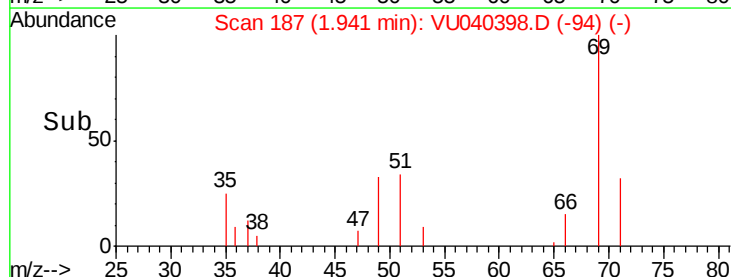
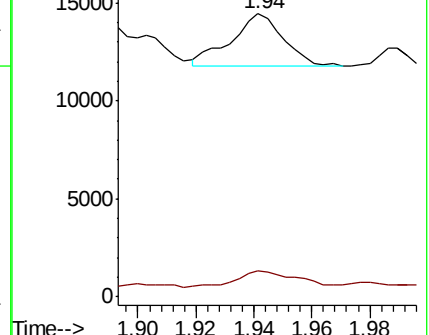
64 100

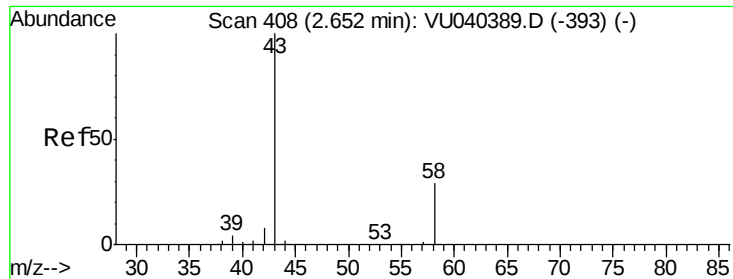
66 9.3 21.3 39.6#



Abundance Ion 64.10 (63.80 to 64.80): VU040389.D (-178) (-)

Ion 66.05 (65.75 to 66.75): VU040389.D (-178) (-)

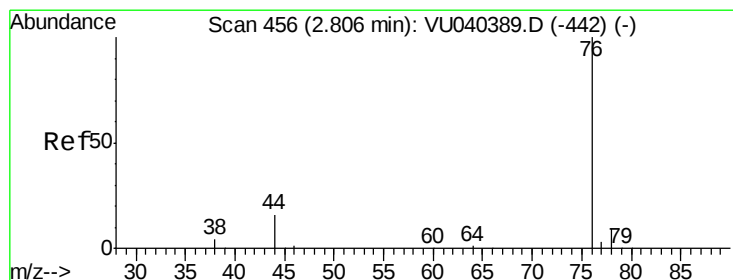
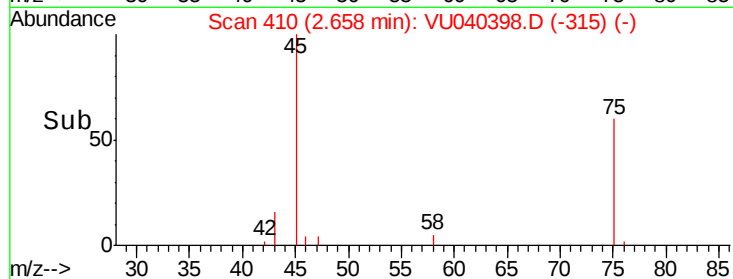
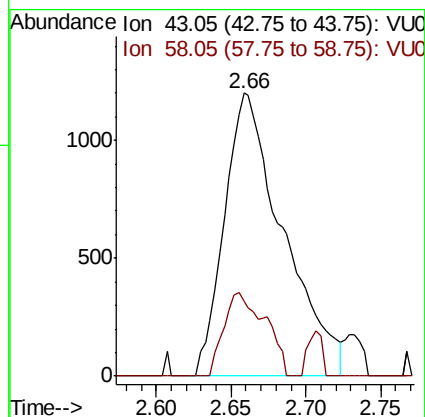
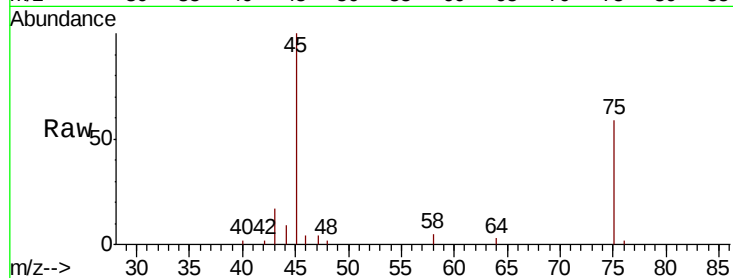




#13
Acetone
Concen: 1.178 ug/L
RT: 2.66 min Scan# 410
Delta R.T. 0.01 min
Lab File: VU040398.D
Acq: 30 Sep 2020 14:53

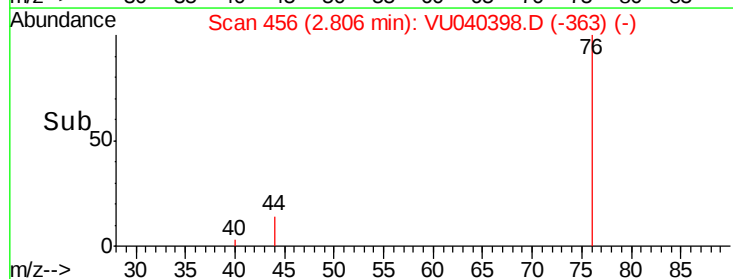
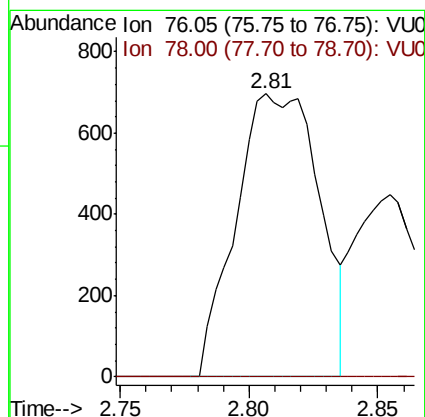
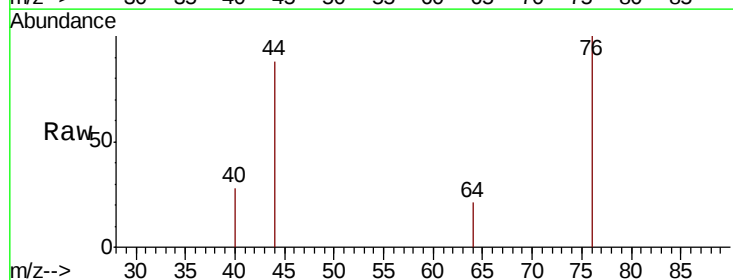
Instrument :
MSVOA_U
ClientSampleId :
BG4A3

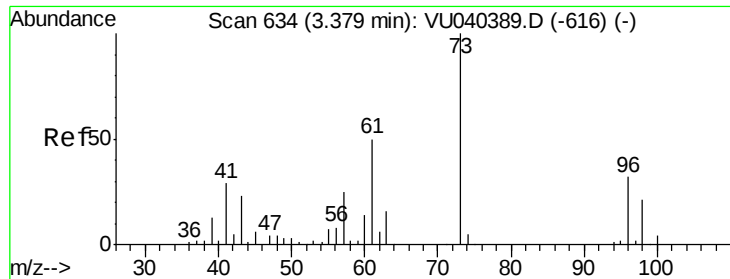
Tot Ion: 43 Resp: 3279
Ion Ratio Lower Upper
43 100
58 20.7 0.0 61.8



#14
Carbon disulfide
Concen: 0.048 ug/L
RT: 2.81 min Scan# 456
Delta R.T. 0.00 min
Lab File: VU040398.D
Acq: 30 Sep 2020 14:53

Tgt Ion: 76 Resp: 1571
Ion Ratio Lower Upper
76 100
78 0.0 7.2 10.8#

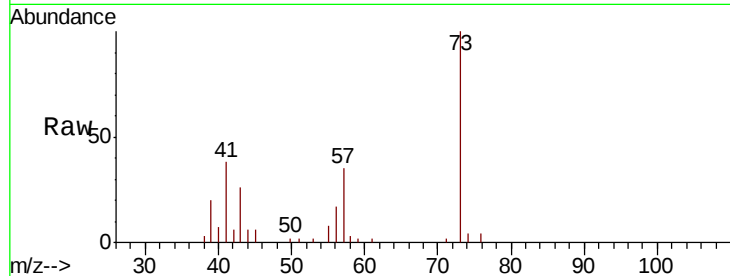




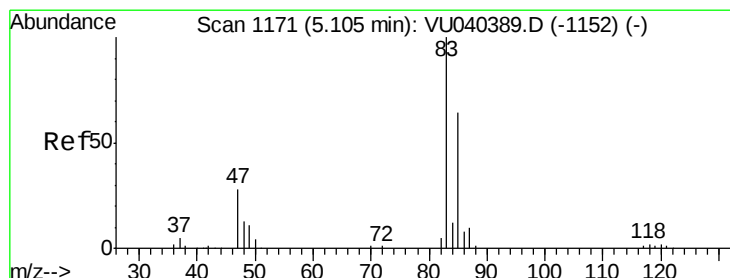
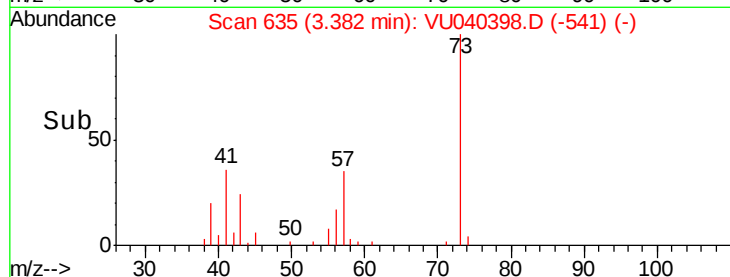
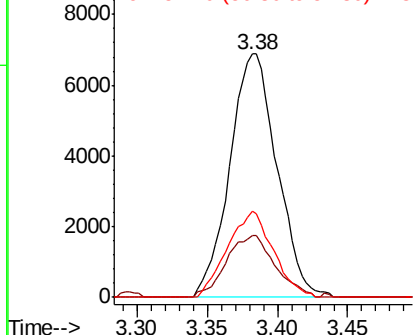
#17
Methvl tert-butvl Ether
Concen: 0.565 ug/L
RT: 3.38 min Scan# 635
Delta R.T. 0.00 min
Lab File: VU040398.D
Acq: 30 Sep 2020 14:53

Instrument :
MSVOA_U
ClientSampleId :
BG4A3

Tot Ion: 73 Resp: 16113
Ion Ratio Lower Upper
73 100
43 26.3 19.0 28.4
57 34.2 18.9 28.3#

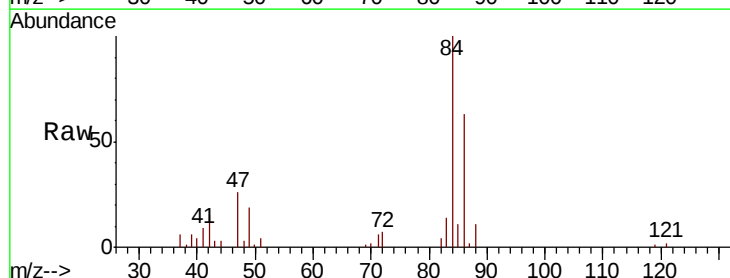


Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

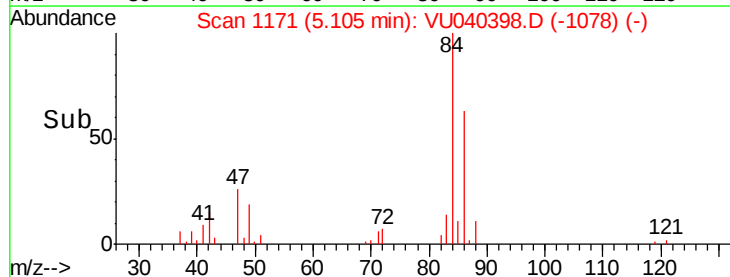
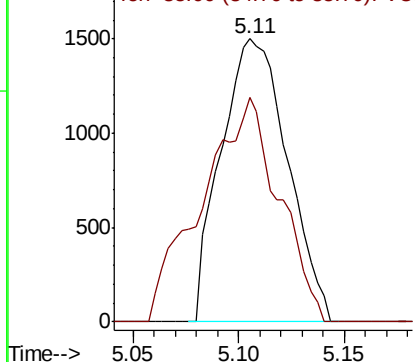


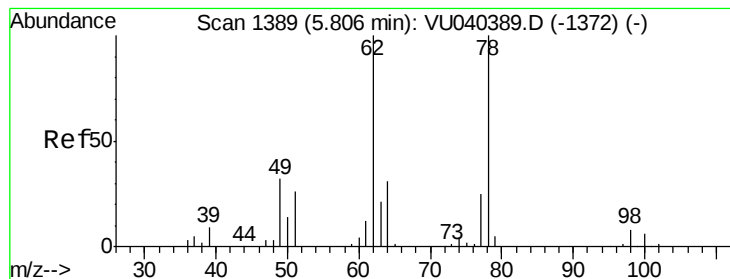
#25
Chloroform
Concen: 0.147 ug/L
RT: 5.11 min Scan# 1171
Delta R.T. 0.00 min
Lab File: VU040398.D
Acq: 30 Sep 2020 14:53

Tgt Ion: 83 Resp: 3291
Ion Ratio Lower Upper
83 100
85 79.4 44.6 82.8



Abundance Ion 83.05 (82.75 to 83.75): VU0
Ion 85.00 (84.70 to 85.70): VU0





#27

1,2-Dichloroethane

Concen: 0.547 ug/L

RT: 5.79 min Scan# 1384

Delta R.T. -0.02 min

Lab File: VU040398.D

Acq: 30 Sep 2020 14:53

Instrument :

MSVOA_U

ClientSampled :

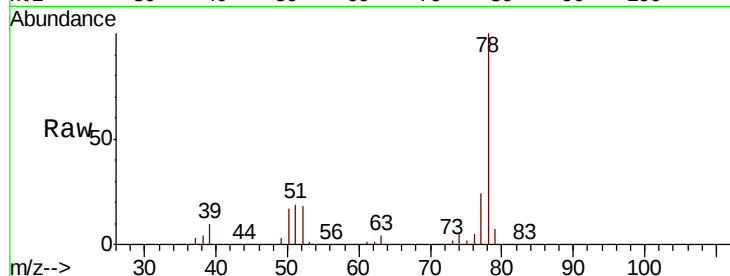
BG4A3

Tot Ion: 62 Resp: 8484

Ion Ratio Lower Upper

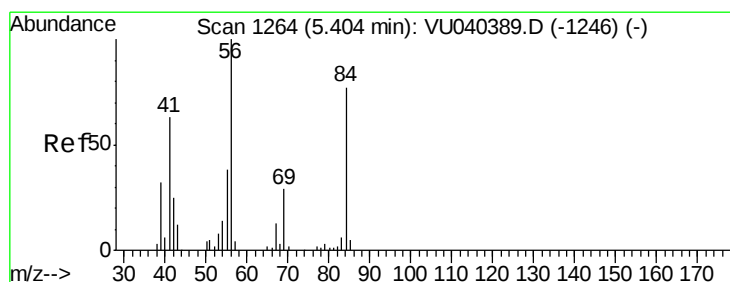
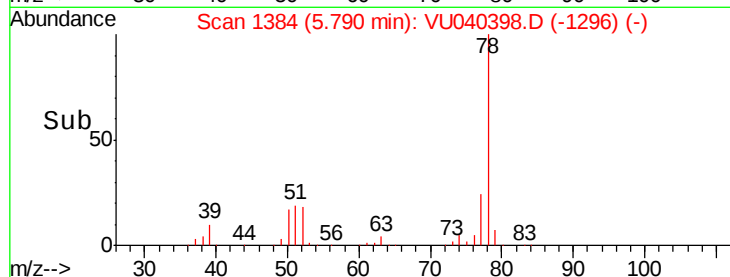
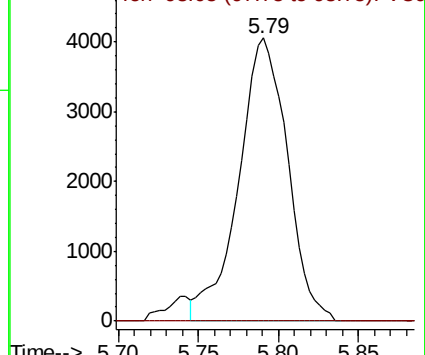
62 100

98 0.0 7.5 11.3#



Abundance Ion 62.00 (61.70 to 62.70): VU040398.D (-1372) (-)

Ion 98.05 (97.75 to 98.75): VU040398.D (-1372) (-)



#30

Cyclohexane

Concen: 0.118 ug/L

RT: 5.40 min Scan# 1264

Delta R.T. 0.00 min

Lab File: VU040398.D

Acq: 30 Sep 2020 14:53

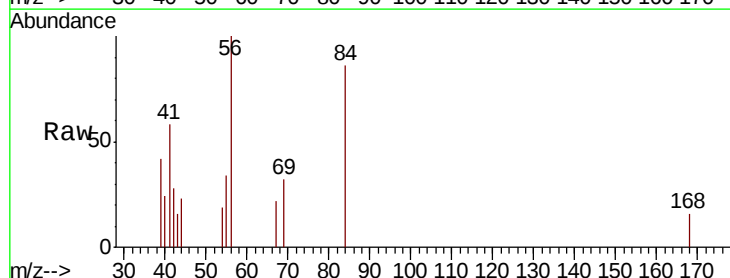
Tgt Ion: 56 Resp: 2273

Ion Ratio Lower Upper

56 100

69 22.1 23.3 34.9#

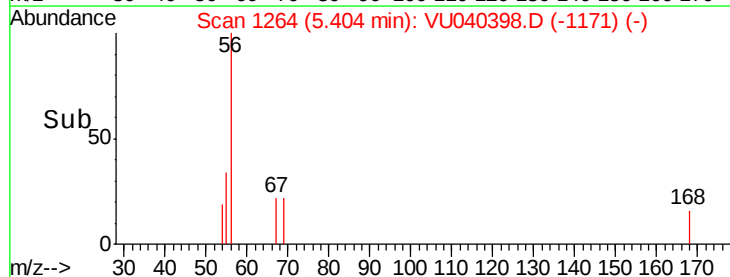
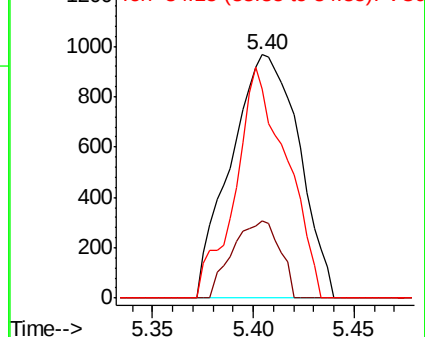
84 71.5 64.2 96.4

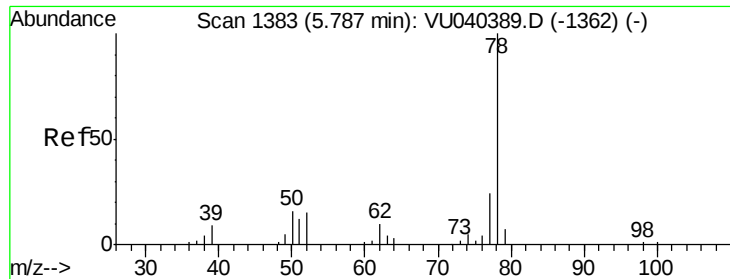


Abundance Ion 56.10 (55.80 to 56.80): VU040398.D (-1246) (-)

Ion 69.15 (68.85 to 69.85): VU040398.D (-1246) (-)

Ion 84.15 (83.85 to 84.85): VU040398.D (-1246) (-)





#33

Benzene

Concen: 19.092 ug/L

RT: 5.79 min Scan# 1384

Delta R.T. 0.00 min

Lab File: VU040398.D

Acq: 30 Sep 2020 14:53

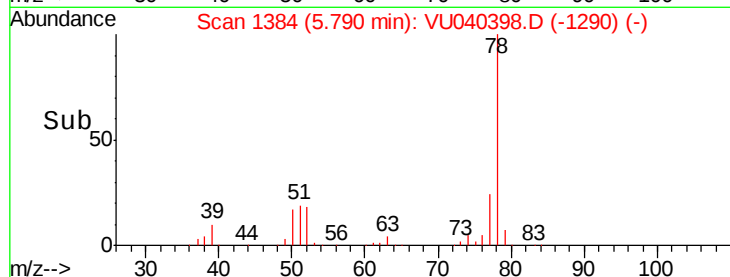
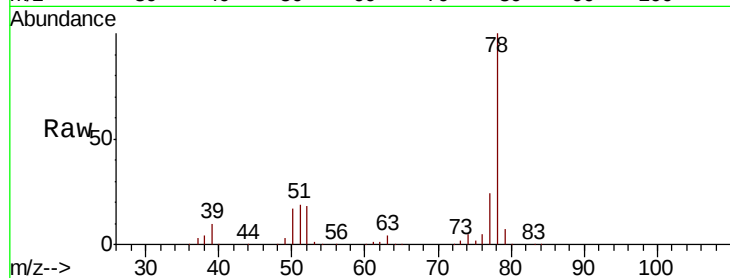
Instrument :

MSVOA_U

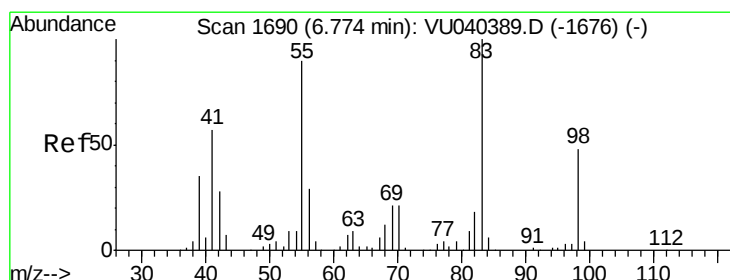
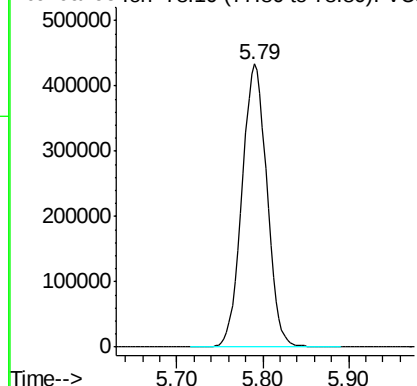
ClientSampleId :

BG4A3

Tgt Ion: 78 Resp: 875200



Abundance Ion 78.10 (77.80 to 78.80): VU0



#35

Methylcyclohexane

Concen: 0.089 ug/L

RT: 6.77 min Scan# 1690

Delta R.T. 0.00 min

Lab File: VU040398.D

Acq: 30 Sep 2020 14:53

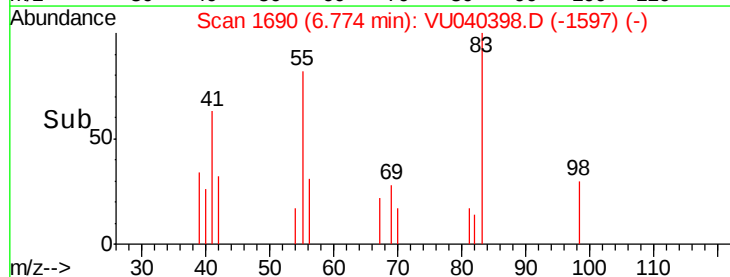
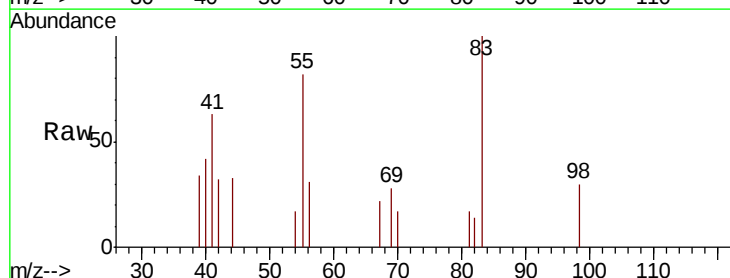
Tgt Ion: 83 Resp: 1597

Ion Ratio Lower Upper

83 100

55 88.0 71.4 107.2

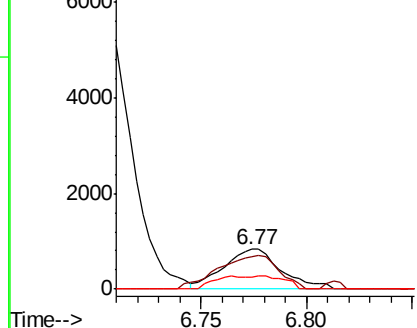
98 19.7 38.5 57.7#

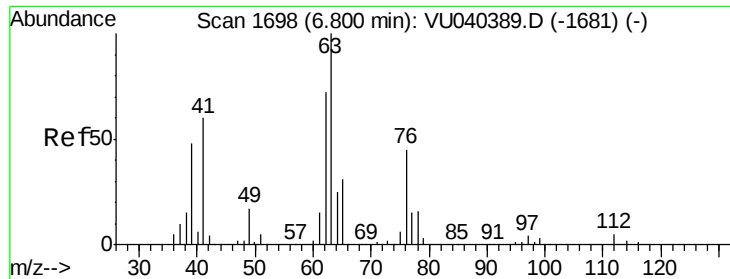


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

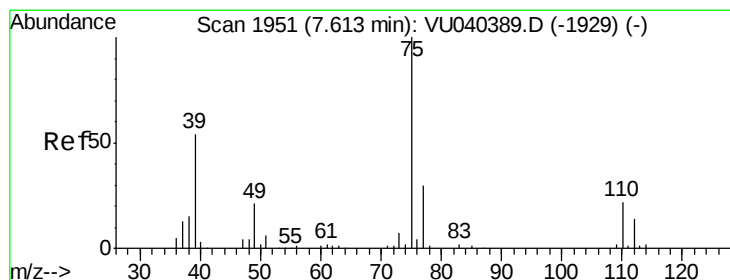
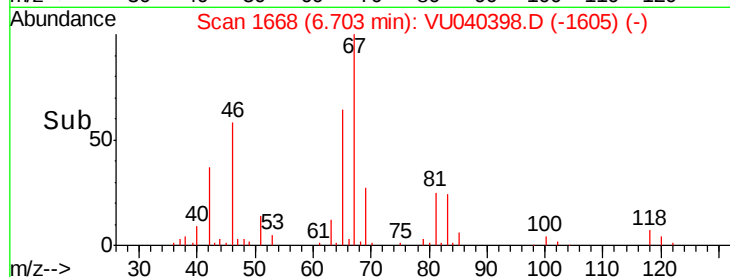
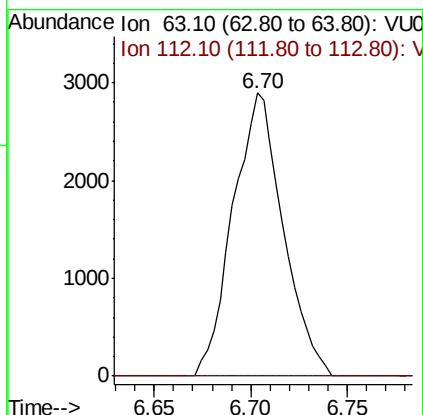
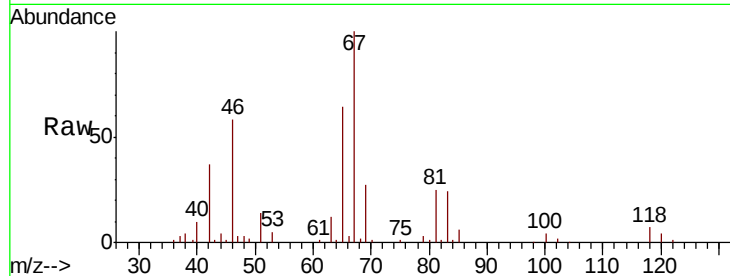




#37
 1,2-Dichloropropane
 Concen: 0.409 ug/L
 RT: 6.70 min Scan# 1668
 Delta R.T. -0.10 min
 Lab File: VU040398.D
 Acq: 30 Sep 2020 14:53

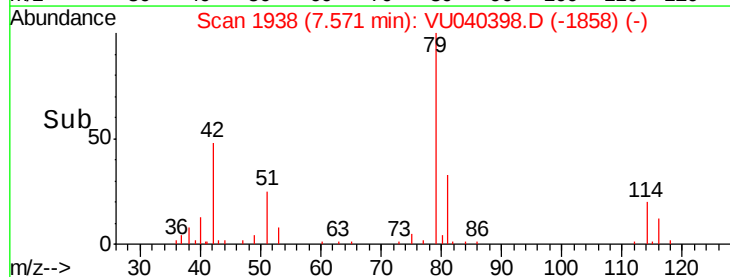
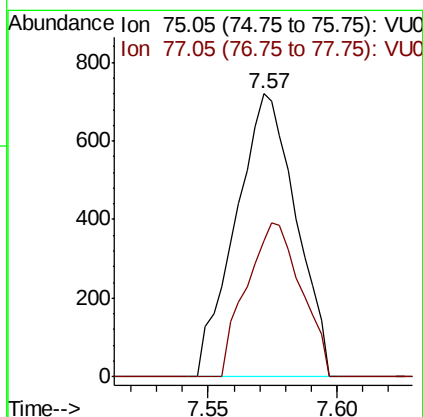
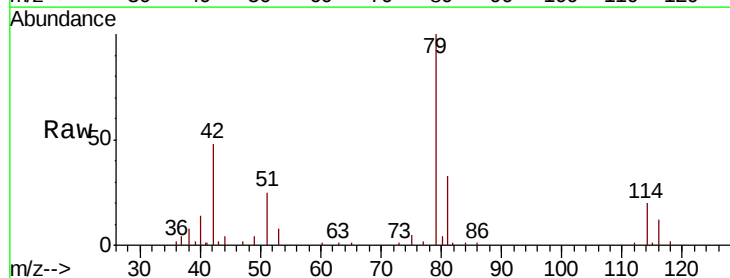
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 ClientSampleID :
 BG4A3

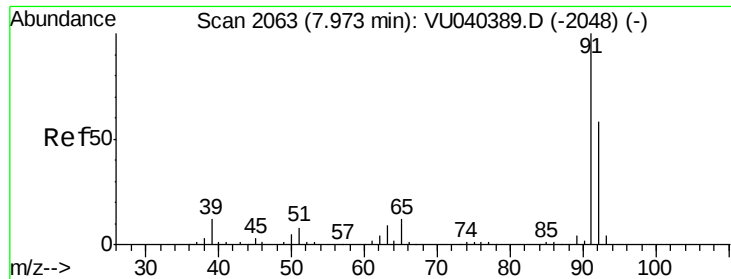
Tot Ion: 63 Resp: 5224
 Ion Ratio Lower Upper
 63 100
 112 0.4 3.2 4.8#



#39
 cis-1,3-Dichloropropene
 Concen: 0.069 ug/L
 RT: 7.57 min Scan# 1938
 Delta R.T. -0.04 min
 Lab File: VU040398.D
 Acq: 30 Sep 2020 14:53

Tgt Ion: 75 Resp: 1178
 Ion Ratio Lower Upper
 75 100
 77 48.2 23.5 43.7#





#42

Toluene

Concen: 0.205 ug/L

RT: 7.98 min Scan# 2064

Delta R.T. 0.00 min

Lab File: VU040398.D

Acq: 30 Sep 2020 14:53

Instrument :

MSVOA_U

ClientSampleId :

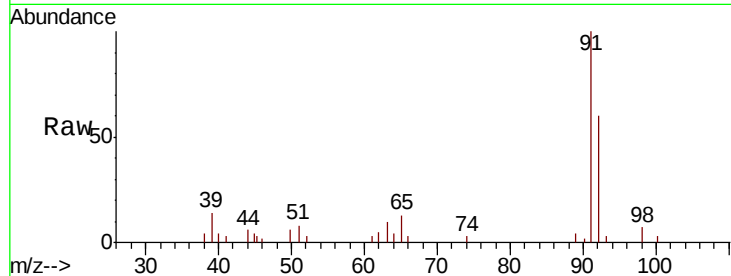
BG4A3

Tot Ion: 91 Resp: 9655

Ion Ratio Lower Upper

91 100

92 60.1 40.0 74.4



Abundance Ion 91.15 (90.85 to 91.85): VU040389.D (-2048) (-)

Ion 92.15 (91.85 to 92.85): VU040389.D (-2048) (-)

7.98

6000

5000

4000

3000

2000

1000

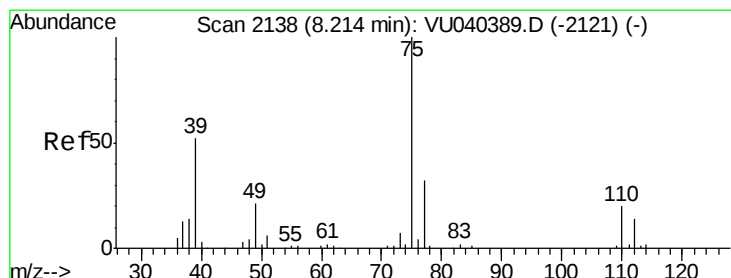
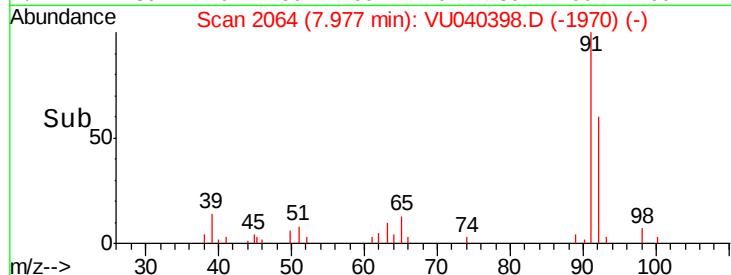
0

Time-->

7.90

7.95

8.00



#44

trans-1,3-Dichloropropene

Concen: 0.058 ug/L

RT: 8.19 min Scan# 2129

Delta R.T. -0.03 min

Lab File: VU040398.D

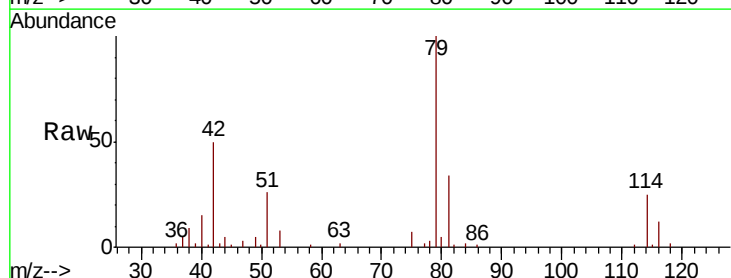
Acq: 30 Sep 2020 14:53

Tgt Ion: 75 Resp: 913

Ion Ratio Lower Upper

75 100

77 31.5 22.3 41.3



Abundance Ion 75.05 (74.75 to 75.75): VU040389.D (-2121) (-)

Ion 77.05 (76.75 to 77.75): VU040389.D (-2121) (-)

8.19

800

600

400

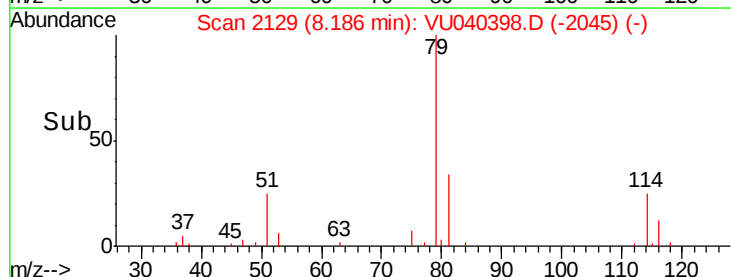
200

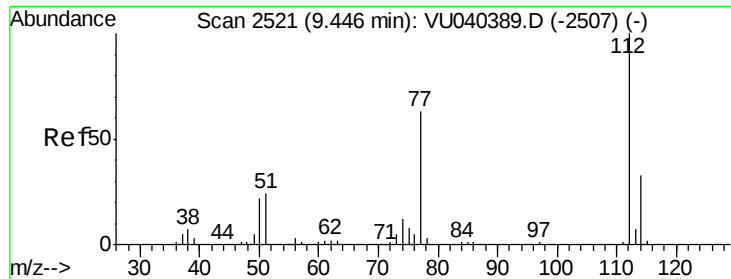
0

Time-->

8.15

8.20

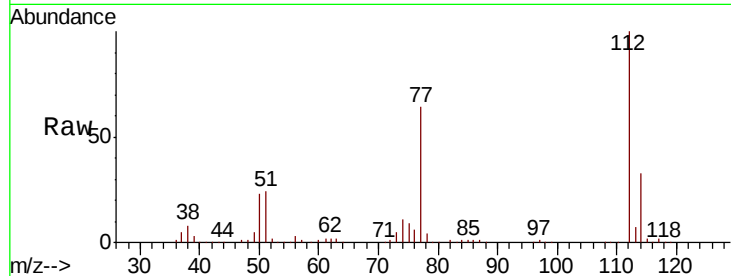




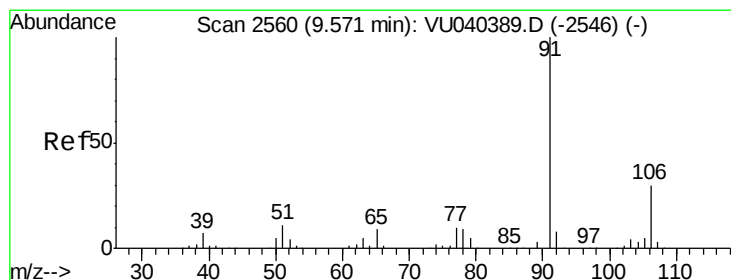
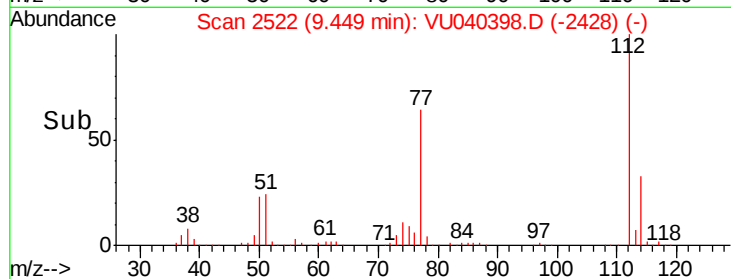
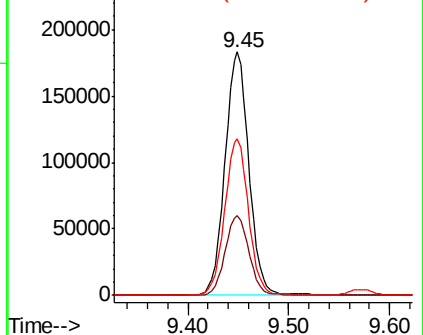
#51
Chlorobenzene
Concen: 9.979 ug/L
RT: 9.45 min Scan# 2522
Delta R.T. 0.00 min
Lab File: VU040398.D
Acq: 30 Sep 2020 14:53

Instrument :
MSVOA_U
ClientSampleId :
BG4A3

Tot Ion:112 Resp: 303263
Ion Ratio Lower Upper
112 100
114 32.6 22.0 40.8
77 64.5 49.5 74.3

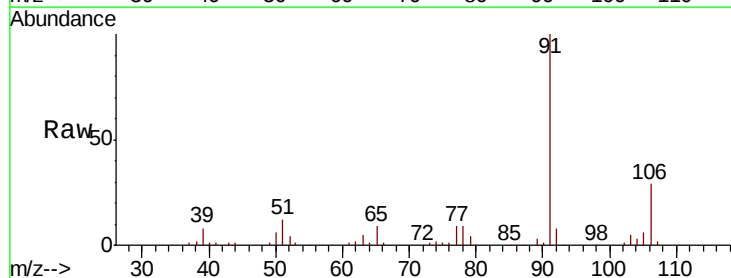


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 114.05 (113.75 to 114.75): V
Ion 77.10 (76.80 to 77.80): V

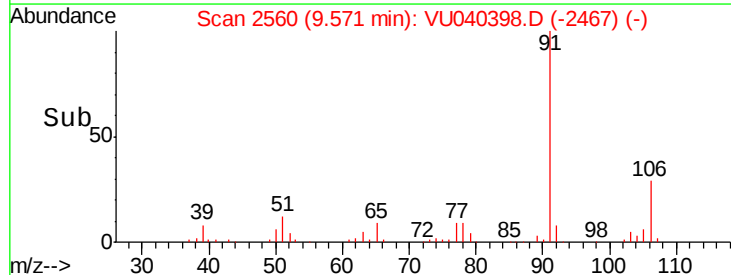
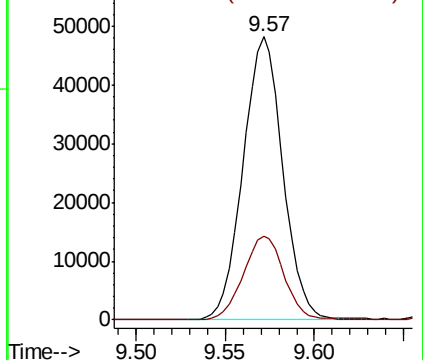


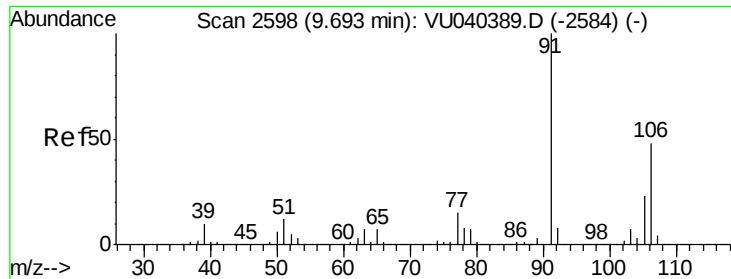
#52
Ethylbenzene
Concen: 1.469 ug/L
RT: 9.57 min Scan# 2560
Delta R.T. 0.00 min
Lab File: VU040398.D
Acq: 30 Sep 2020 14:53

Tgt Ion: 91 Resp: 74920
Ion Ratio Lower Upper
91 100
106 29.4 21.1 39.3



Abundance Ion 91.15 (90.85 to 91.85): V
Ion 106.15 (105.85 to 106.85): V





#53

m,p-Xylene

Concen: 8.432 ug/L

RT: 9.69 min Scan# 2598

Delta R.T. 0.00 min

Lab File: VU040398.D

Acq: 30 Sep 2020 14:53

Instrument :

MSVOA_U

ClientSampled :

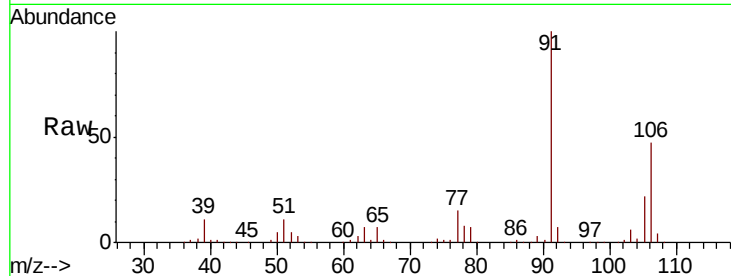
BG4A3

Tot Ion:106 Resp: 160234

Ion Ratio Lower Upper

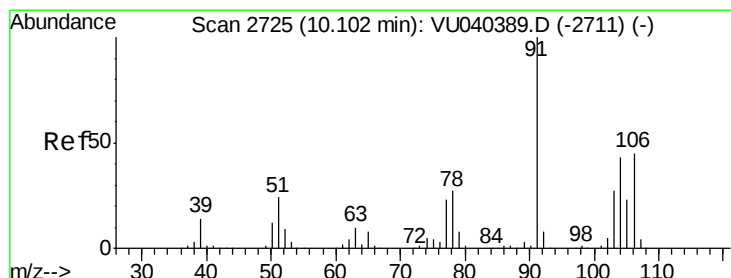
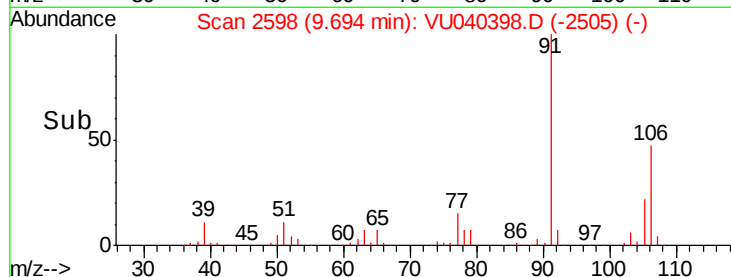
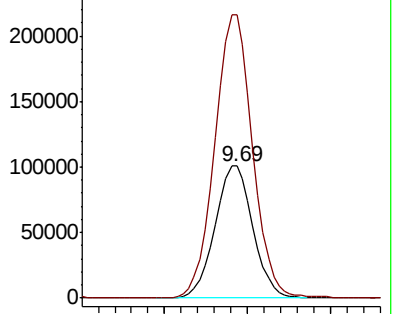
106 100

91 214.1 149.0 276.6



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#54

o-Xylene

Concen: 4.800 ug/L

RT: 10.10 min Scan# 2725

Delta R.T. 0.00 min

Lab File: VU040398.D

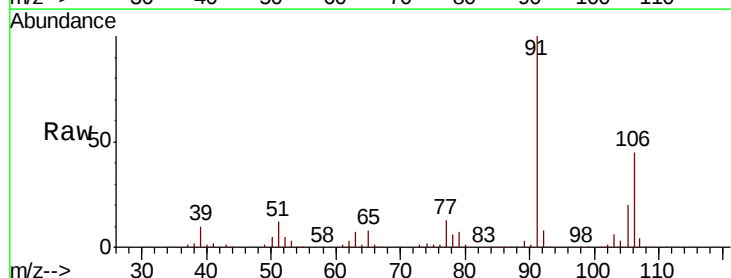
Acq: 30 Sep 2020 14:53

Tgt Ion:106 Resp: 85810

Ion Ratio Lower Upper

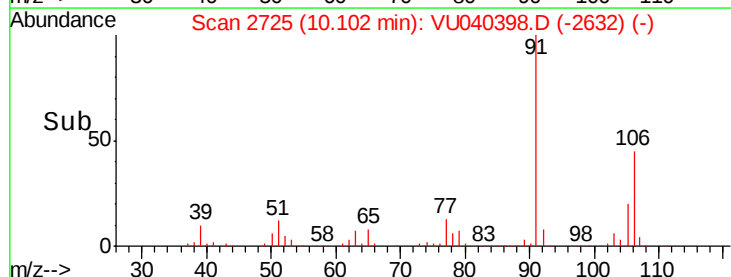
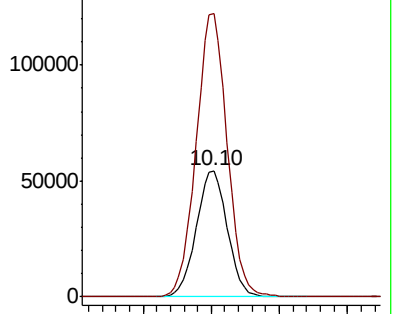
106 100

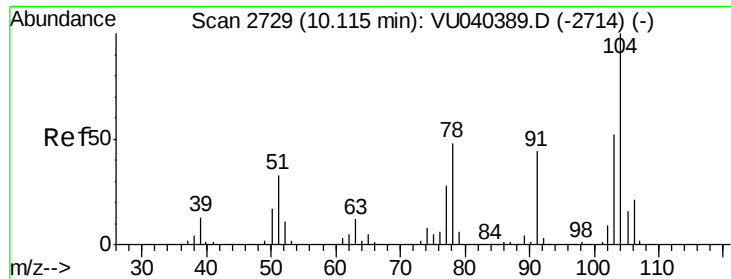
91 224.5 160.9 298.9



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0

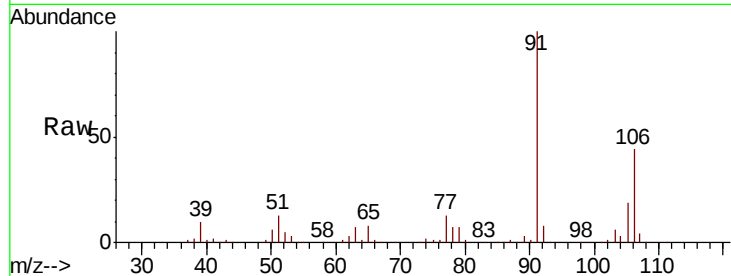




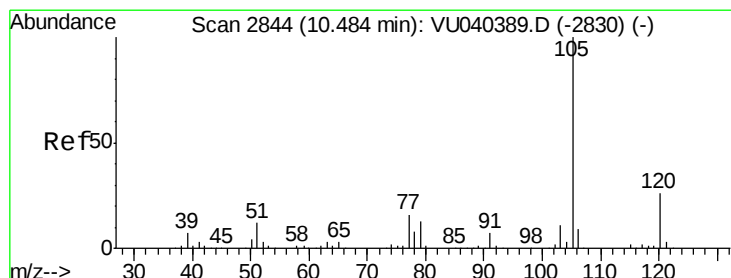
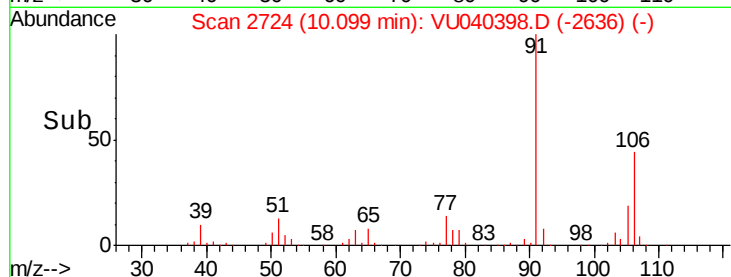
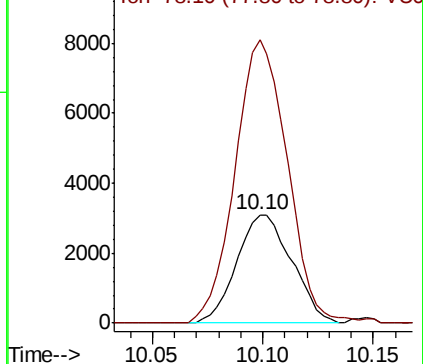
#55
Stvrene
Concen: 0.171 ug/L
RT: 10.10 min Scan# 2724
Delta R.T. -0.02 min
Lab File: VU040398.D
Acq: 30 Sep 2020 14:53

Instrument :
MSVOA_U
ClientSampleId :
BG4A3

Tot Ion:104 Resp: 5340
Ion Ratio Lower Upper
104 100
78 261.7 34.4 63.8#

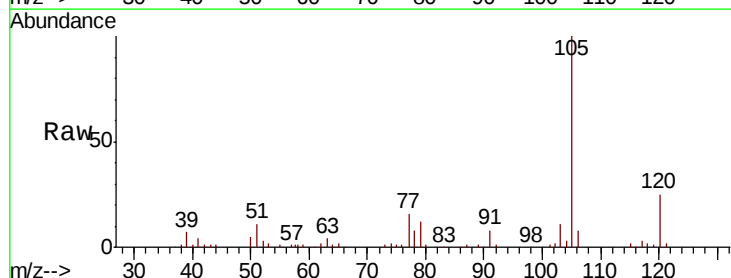


Abundance Ion 104.10 (103.80 to 104.80): V
Ion 78.10 (77.80 to 78.80): VU0

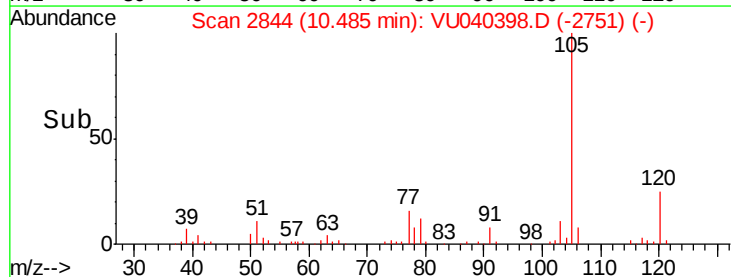
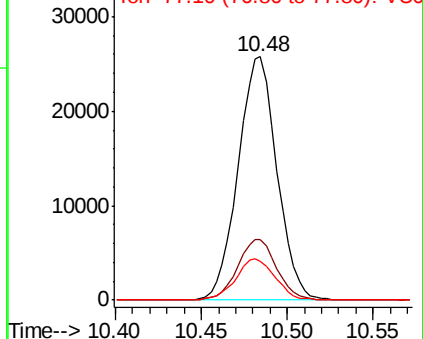


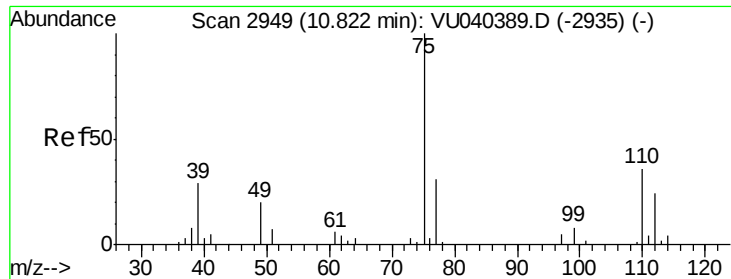
#56
Isopropylbenzene
Concen: 0.835 ug/L
RT: 10.48 min Scan# 2844
Delta R.T. 0.00 min
Lab File: VU040398.D
Acq: 30 Sep 2020 14:53

Tgt Ion:105 Resp: 40270
Ion Ratio Lower Upper
105 100
120 25.1 20.6 30.8
77 17.3 14.3 21.5



Abundance Ion 105.05 (104.75 to 105.75): V
Ion 120.10 (119.80 to 120.80): V
Ion 77.10 (76.80 to 77.80): VU0

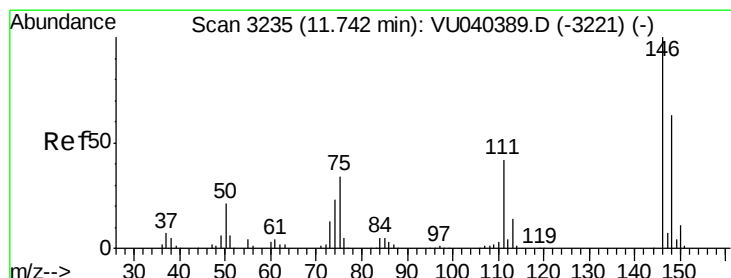
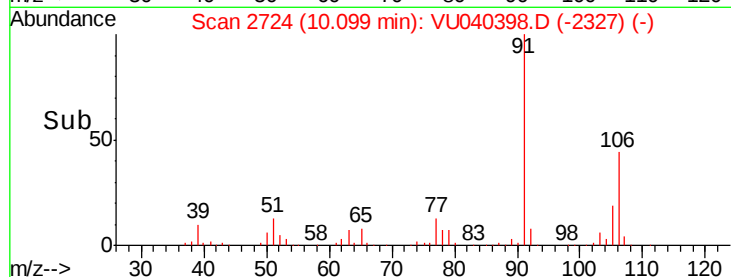
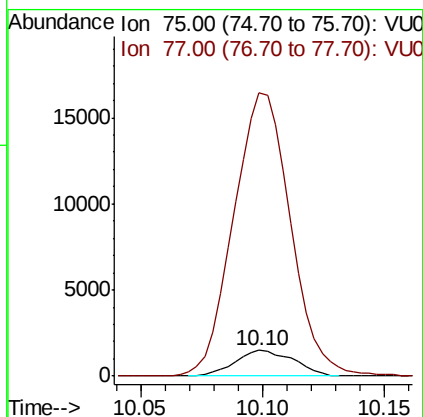
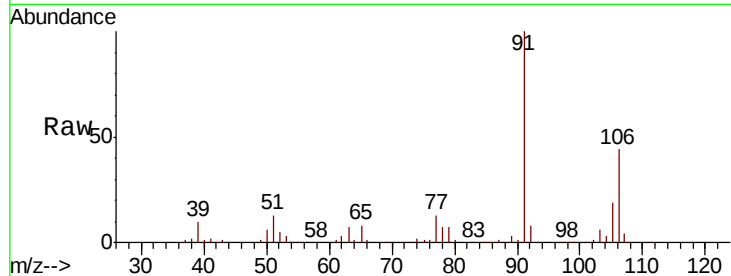




#59
 1,2,3-Trichloropropane
 Concen: 0.265 ug/L
 RT: 10.10 min Scan# 2724
 Delta R.T. -0.72 min
 Lab File: VU040398.D
 Acq: 30 Sep 2020 14:53

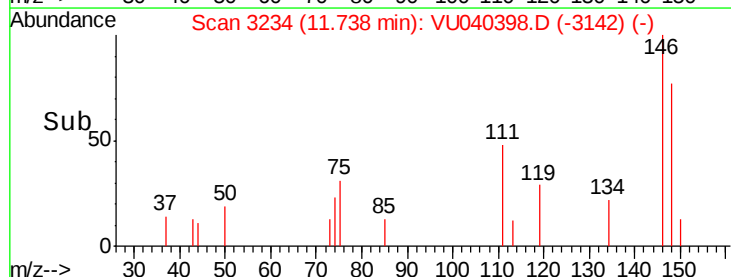
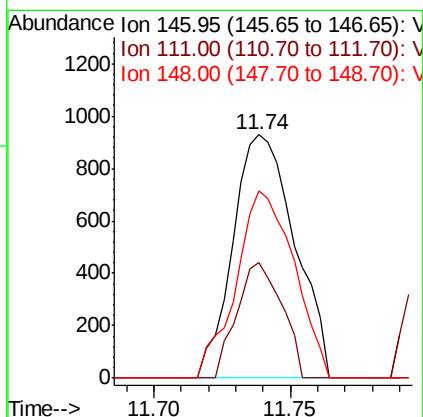
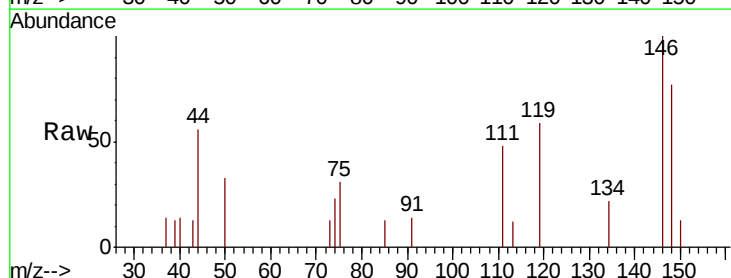
Instrument :
 MSVOA_U
 ClientSampled :
 BG4A3

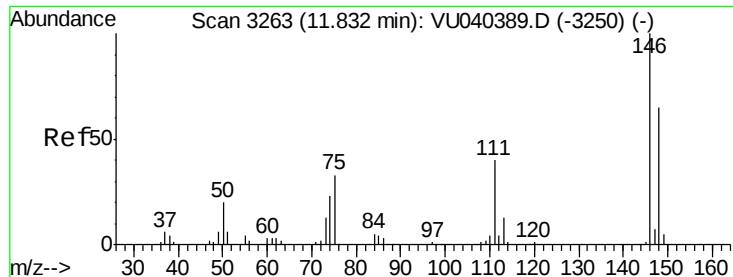
Tot Ion: 75 Resp: 2449
 Ion Ratio Lower Upper
 75 100
 77 1091.5 25.7 38.5#



#62
 1,3-Dichlorobenzene
 Concen: 0.065 ug/L
 RT: 11.74 min Scan# 3234
 Delta R.T. -0.00 min
 Lab File: VU040398.D
 Acq: 30 Sep 2020 14:53

Tgt Ion: 146 Resp: 1462
 Ion Ratio Lower Upper
 146 100
 111 47.7 28.6 53.0
 148 77.2 43.4 80.6





#63

1,4-Dichlorobenzene

Concen: 0.413 ug/L

RT: 11.83 min Scan# 3262

Delta R.T. -0.00 min

Lab File: VU040398.D

Acq: 30 Sep 2020 14:53

Instrument :

MSVOA_U

ClientSampleId :

BG4A3

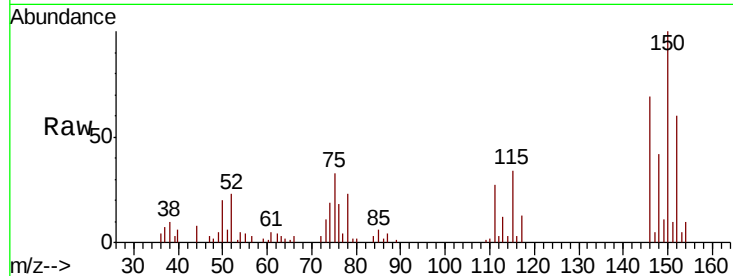
Tot Ion:146 Resp: 9663

Ion Ratio Lower Upper

146 100

111 38.8 29.2 54.2

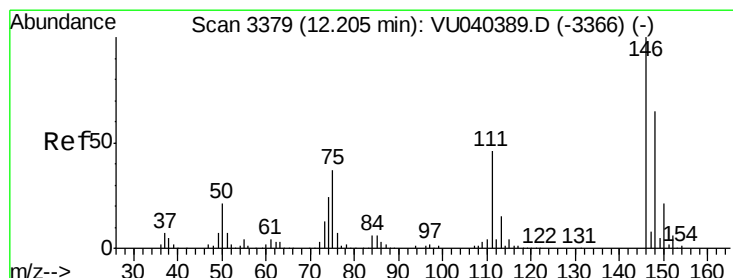
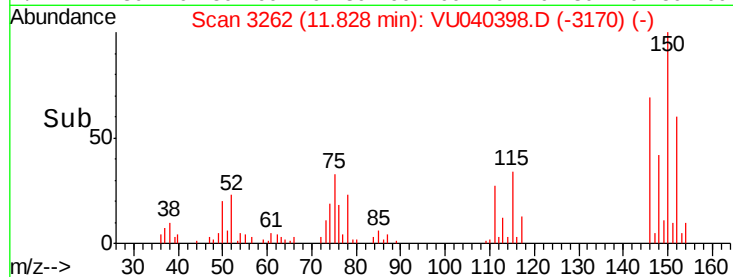
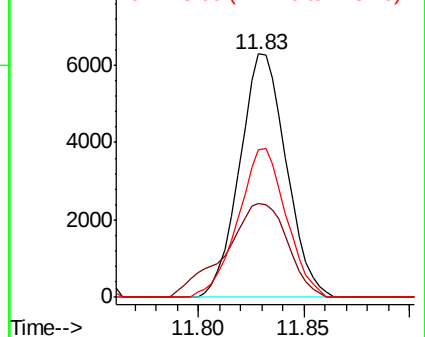
148 60.4 44.4 82.4



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



#65

1,2-Dichlorobenzene

Concen: 0.223 ug/L

RT: 12.20 min Scan# 3378

Delta R.T. -0.00 min

Lab File: VU040398.D

Acq: 30 Sep 2020 14:53

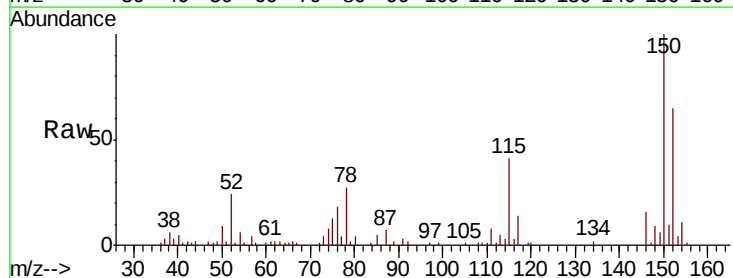
Tgt Ion:146 Resp: 4879

Ion Ratio Lower Upper

146 100

111 50.0 35.6 53.4

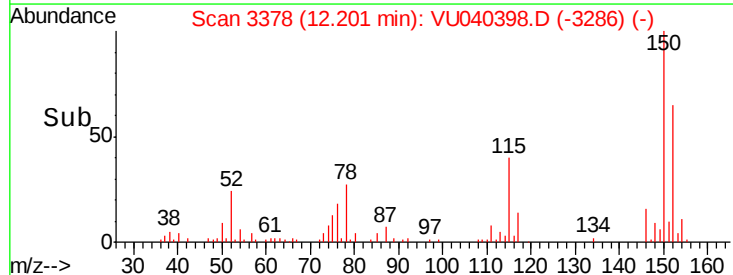
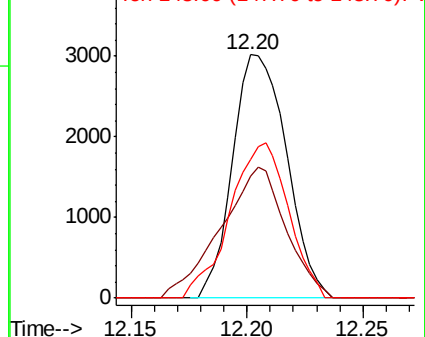
148 56.8 49.8 74.6

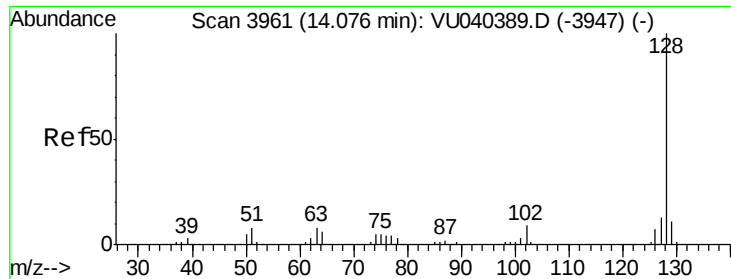


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#69

Naphthalene

Concen: 0.229 ug/L

RT: 14.08 min Scan# 3961

Delta R.T. 0.00 min

Lab File: VU040398.D

Acq: 30 Sep 2020 14:53

Instrument :

MSVOA_U

ClientSampleId :

BG4A3

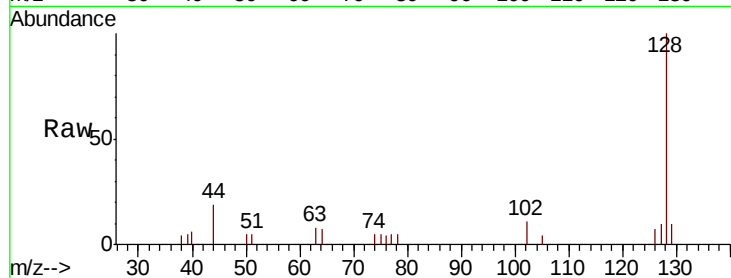
Tot Ion:128 Resp: 5061

Ion Ratio Lower Upper

128 100

129 8.0 8.2 12.4#

127 11.7 10.2 15.4



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

