

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU092620\
 Data File : VU040321.D
 Acq On : 25 Sep 2020 23:39
 Operator : SY/MD
 Sample : L4139-10
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BG4A2

Quant Time: Sep 26 06:54:29 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR083120WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat Sep 26 06:44:13 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	150985	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	141137	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	70763	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	35101	4.26	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	85.20%
7) Chloroethane-d5	1.92	69	34159	4.97	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	99.40%
11) 1,1-Dichloroethene-d2	2.58	63	60045	2.84	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	56.80%#
20) 2-Butanone-d5	4.66	46	198399	60.17	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	120.34%
24) Chloroform-d	5.08	84	82823	4.30	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	86.00%
26) 1,2-Dichloroethane-d4	5.72	65	52181	4.39	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	87.80%
32) Benzene-d6	5.74	84	155100	4.71	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.20%
36) 1,2-Dichloropropane-d6	6.70	67	54661	5.03	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	100.60%
41) Toluene-d8	7.91	98	130197	4.37	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	87.40%
43) trans-1,3-Dichloropropene-	8.19	79	20891	4.19	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	83.80%
46) 2-Hexanone-d5	8.64	63	137825	58.32	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	116.64%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	47363	5.04	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	100.80%
64) 1,2-Dichlorobenzene-d4	12.19	152	55582	4.85	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	97.00%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chloromethane	1.52	50	695	0.048	ug/L	97
8) Chloroethane	1.94	64	7580	0.867	ug/L #	68
13) Acetone	2.66	43	2776	0.909	ug/L	94
17) Methyl tert-butyl Ether	3.38	73	16086	0.457	ug/L #	52
25) Chloroform	5.11	83	4383	0.165	ug/L	91
27) 1,2-Dichloroethane	5.79	62	54111	2.788	ug/L #	78
30) Cyclohexane	5.40	56	9204	0.428	ug/L	96
33) Benzene	5.79	78	5762317	114.126	ug/L	100
35) Methylcyclohexane	6.77	83	5585	0.269	ug/L	94
37) 1,2-Dichloropropane	6.70	63	5967	0.436	ug/L #	85
42) Toluene	7.97	91	34763	0.669	ug/L	98
44) trans-1,3-Dichloropropene	8.18	75	883	0.047	ug/L #	59
51) Chlorobenzene	9.45	112	617357	19.123	ug/L	97
52) Ethylbenzene	9.57	91	136161	2.305	ug/L	99
53) m,p-Xylene	9.69	106	1277272	60.723	ug/L	99
54) o-Xylene	10.10	106	563477	28.111	ug/L	98
55) Styrene	10.10	104	28885	0.829	ug/L #	1

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Quant Title : TRACE VOA SOM01.0
QLast Update : Sat Sep 26 06:44:13 2020
Response via : Initial Calibration

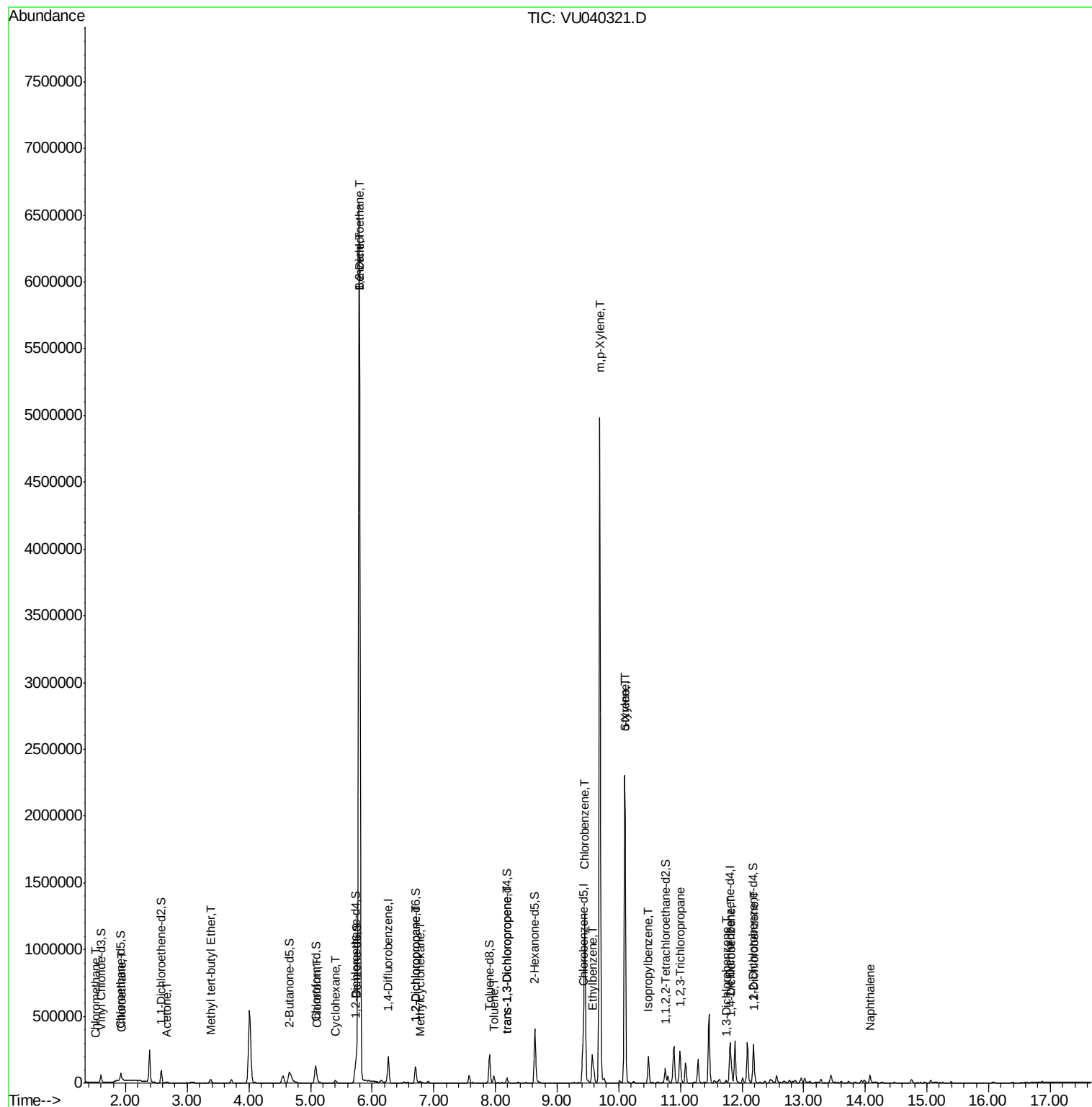
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
56) Isopropylbenzene	10.48	105	116330	2.128	ug/L	99
59) 1,2,3-Trichloropropane	10.99	75	1899	0.187	ug/L #	1
62) 1,3-Dichlorobenzene	11.74	146	2727	0.105	ug/L	94
63) 1,4-Dichlorobenzene	11.83	146	34644	1.324	ug/L	97
65) 1,2-Dichlorobenzene	12.20	146	9514	0.380	ug/L	98
69) Naphthalene	14.08	128	43820	1.342	ug/L	100

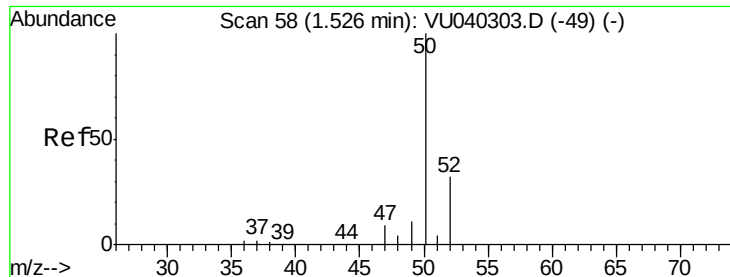
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.048 ug/L

RT: 1.52 min Scan# 57

Delta R.T. -0.00 min

Lab File: VU040321.D

Acq: 25 Sep 2020 23:39

Instrument :

MSVOA_U

ClientSampleId :

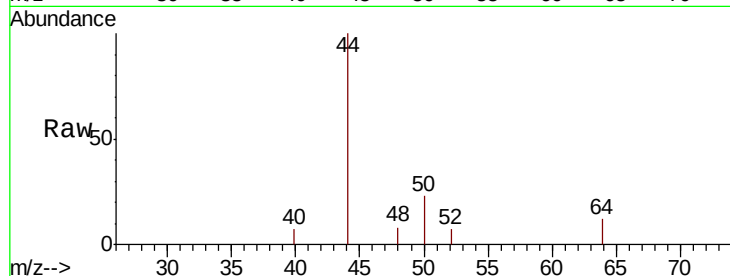
BG4A2

Tot Ion: 50 Resp: 695

Ion Ratio Lower Upper

50 100

52 31.1 22.8 42.4



Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0

1.52

600

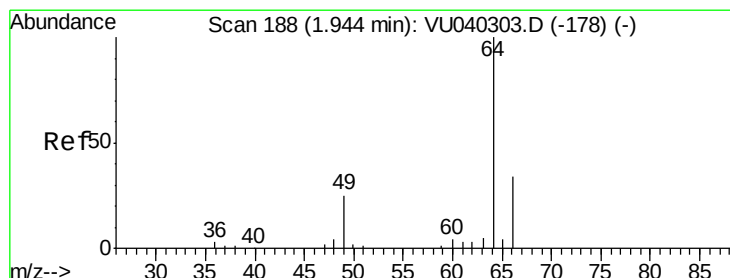
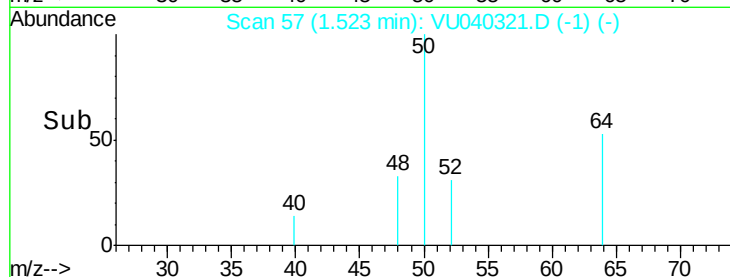
400

200

0

1.50 1.52 1.54

Time-->



#8

Chloroethane

Concen: 0.867 ug/L

RT: 1.94 min Scan# 188

Delta R.T. 0.00 min

Lab File: VU040321.D

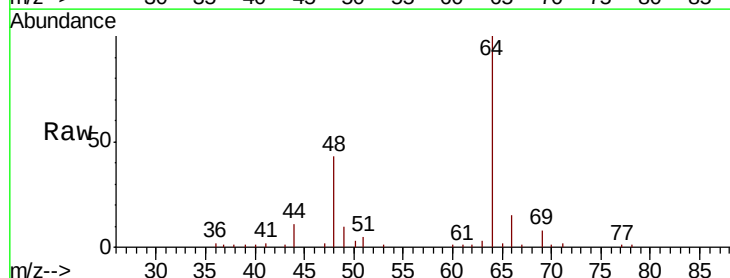
Acq: 25 Sep 2020 23:39

Tgt Ion: 64 Resp: 7580

Ion Ratio Lower Upper

64 100

66 14.6 22.7 42.1#



Abundance Ion 64.10 (63.80 to 64.80): VU0

20000 Ion 66.05 (65.75 to 66.75): VU0

15000

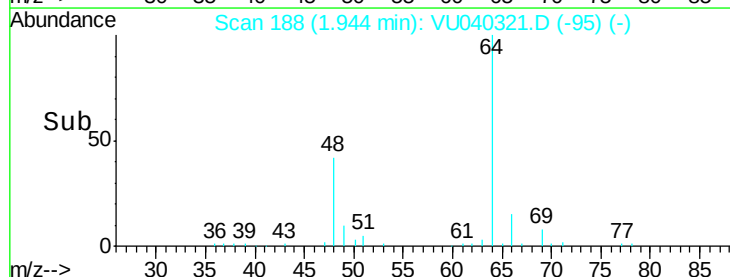
10000

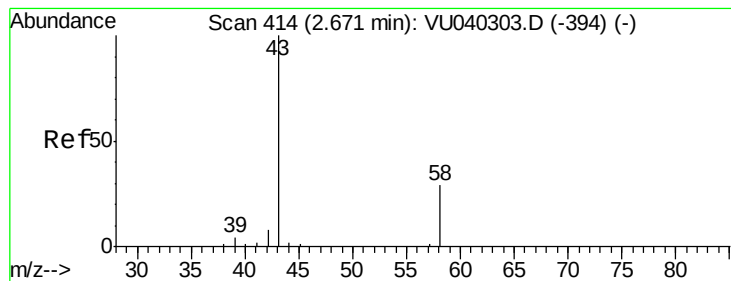
5000

0

1.90 1.95 2.00

Time-->





#13

Acetone

Concen: 0.909 ug/L

RT: 2.66 min Scan# 412

Delta R.T. -0.01 min

Lab File: VU040321.D

Acq: 25 Sep 2020 23:39

Instrument :

MSVOA_U

ClientSampleId :

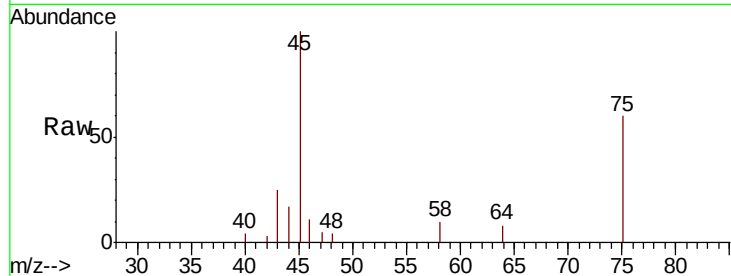
BG4A2

Tot Ion: 43 Resp: 2776

Ion Ratio Lower Upper

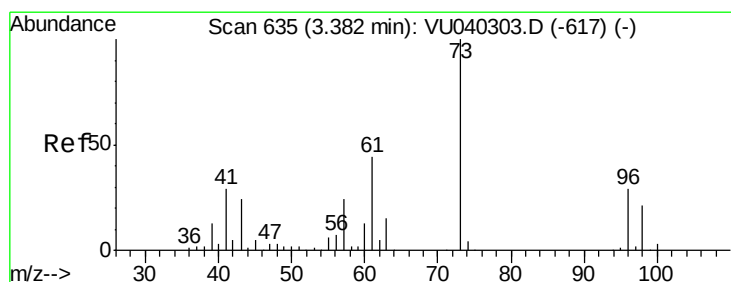
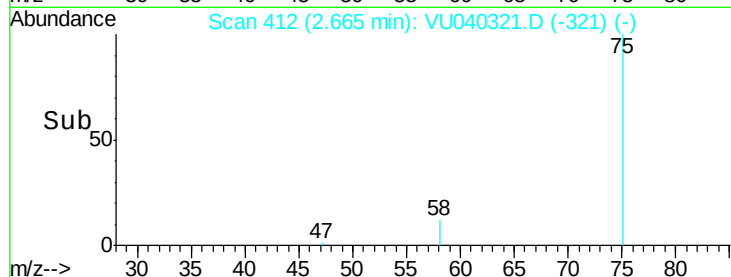
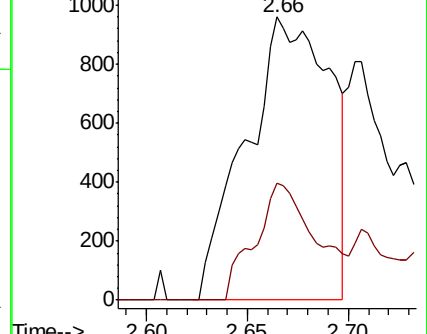
43 100

58 30.7 0.0 55.4



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0



#17

Methyl tert-butyl Ether

Concen: 0.457 ug/L

RT: 3.38 min Scan# 636

Delta R.T. 0.00 min

Lab File: VU040321.D

Acq: 25 Sep 2020 23:39

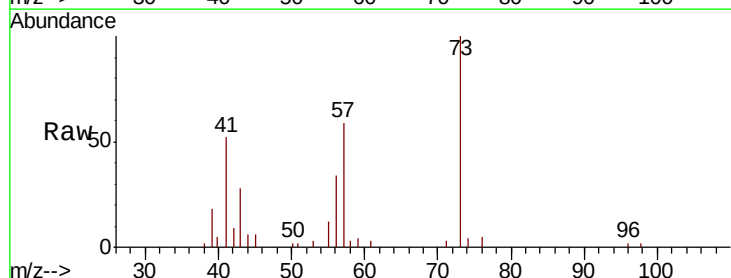
Tgt Ion: 73 Resp: 16086

Ion Ratio Lower Upper

73 100

43 32.4 19.1 28.7#

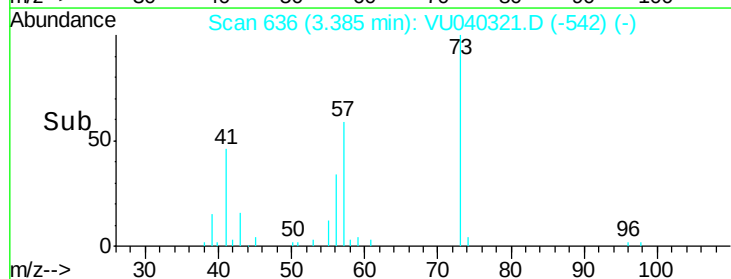
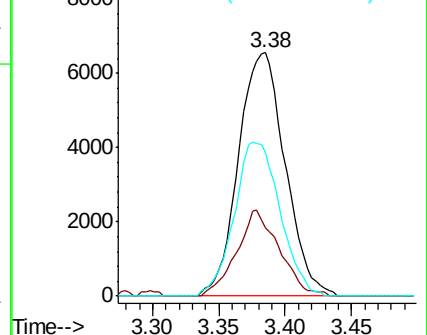
57 62.0 18.3 27.5#

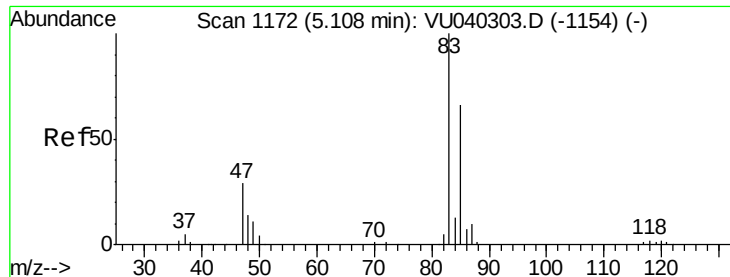


Abundance Ion 73.10 (72.80 to 73.80): VU0

Ion 43.05 (42.75 to 43.75): VU0

Ion 57.10 (56.80 to 57.80): VU0

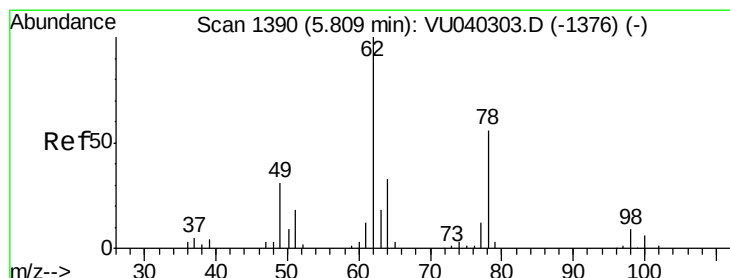
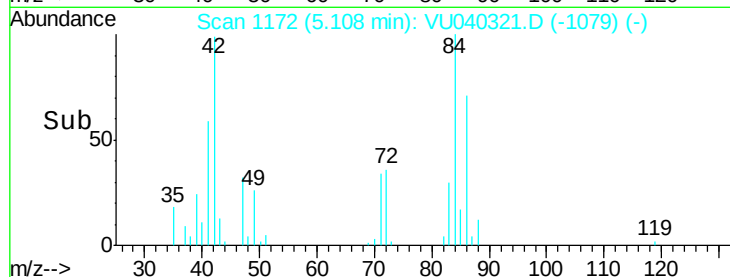
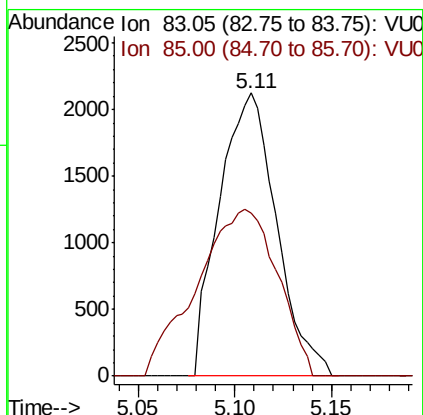
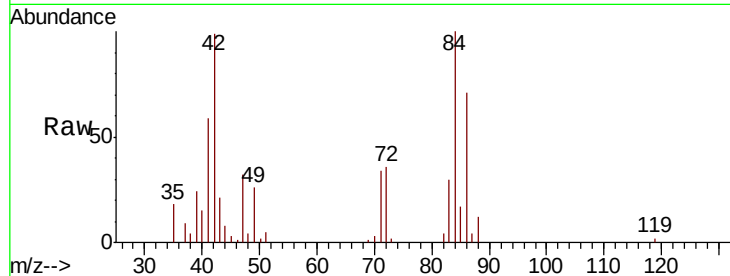




#25
Chloroform
Concen: 0.165 ug/L
RT: 5.11 min Scan# 1172
Delta R.T. 0.00 min
Lab File: VU040321.D
Acq: 25 Sep 2020 23:39

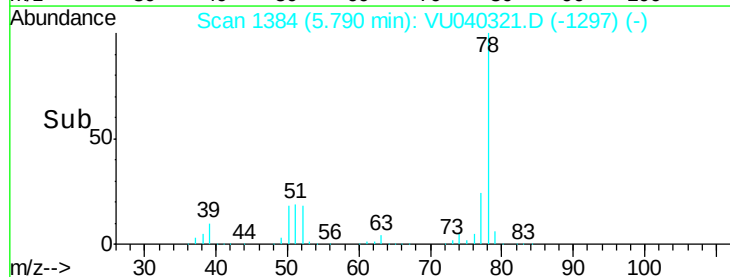
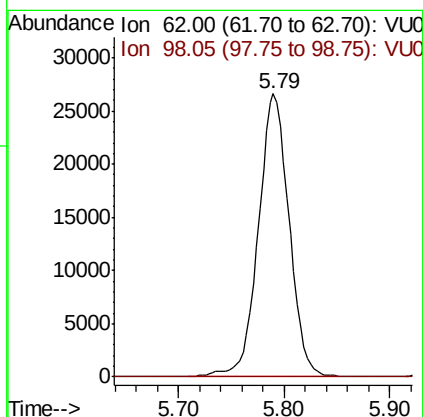
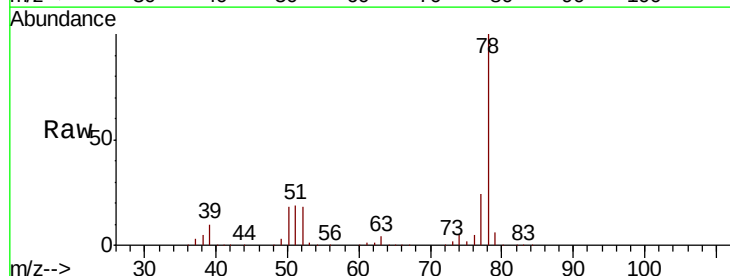
Instrument :
MSVOA_U
ClientSampleId :
BG4A2

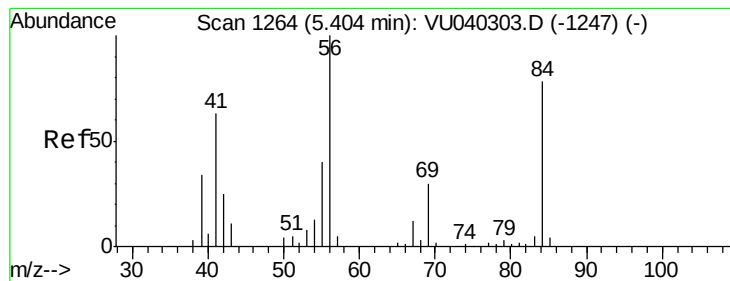
Tot Ion: 83 Resp: 4383
Ion Ratio Lower Upper
83 100
85 57.4 45.3 84.1



#27
1,2-Dichloroethane
Concen: 2.788 ug/L
RT: 5.79 min Scan# 1384
Delta R.T. -0.02 min
Lab File: VU040321.D
Acq: 25 Sep 2020 23:39

Tgt Ion: 62 Resp: 54111
Ion Ratio Lower Upper
62 100
98 0.0 6.1 9.1#





#30

Cyclohexane

Concen: 0.428 ug/L

RT: 5.40 min Scan# 1264

Delta R.T. 0.00 min

Lab File: VU040321.D

Acq: 25 Sep 2020 23:39

Instrument :

MSVOA_U

ClientSampled :

BG4A2

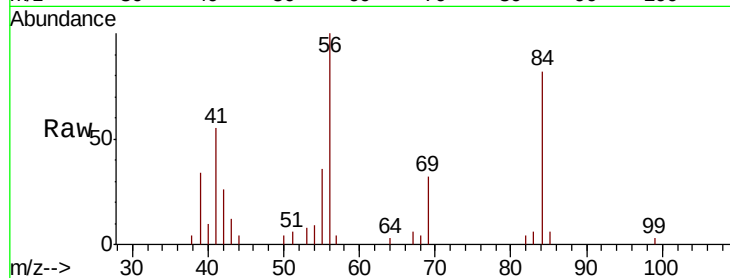
Tot Ion: 56 Resp: 9204

Ion Ratio Lower Upper

56 100

69 31.7 24.1 36.1

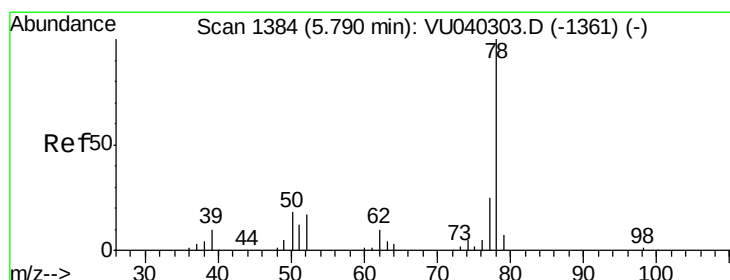
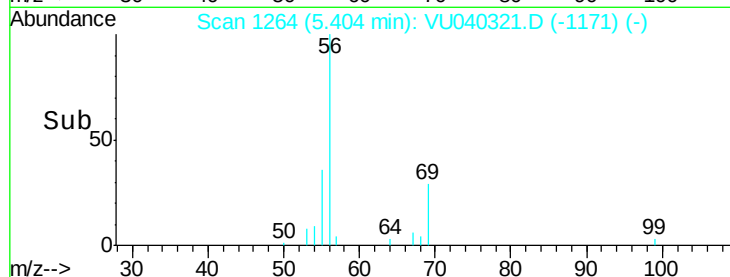
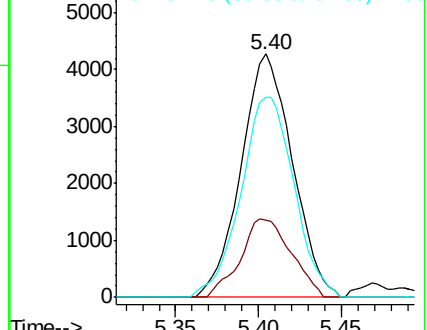
84 85.0 65.0 97.4



Abundance Ion 56.10 (55.80 to 56.80): VU0

Ion 69.15 (68.85 to 69.85): VU0

Ion 84.15 (83.85 to 84.85): VU0



#33

Benzene

Concen: 114.126 ug/L

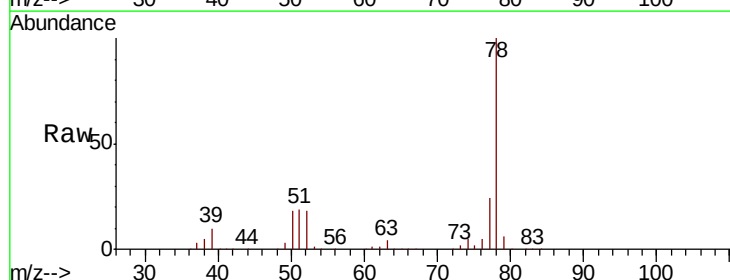
RT: 5.79 min Scan# 1384

Delta R.T. 0.00 min

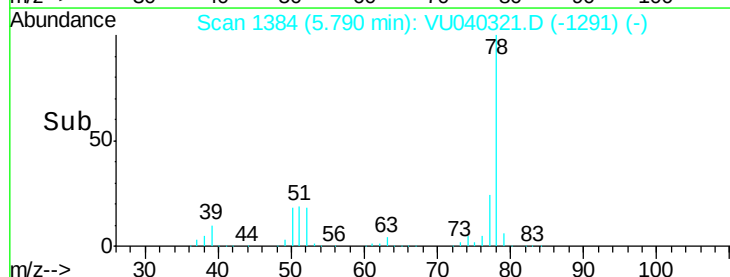
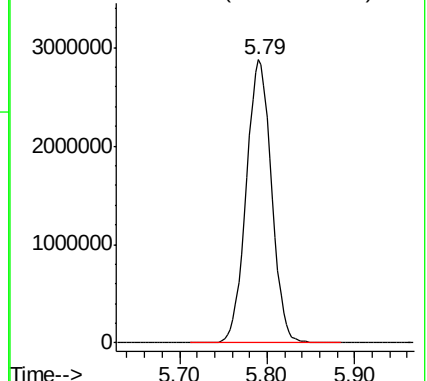
Lab File: VU040321.D

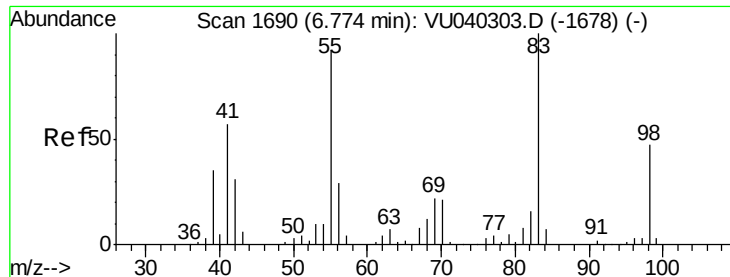
Acq: 25 Sep 2020 23:39

Tgt Ion: 78 Resp: 5762317



Abundance Ion 78.10 (77.80 to 78.80): VU0

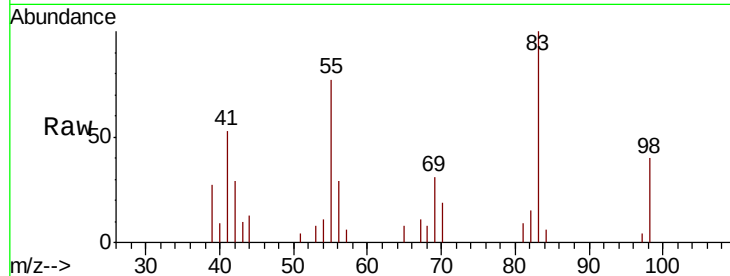




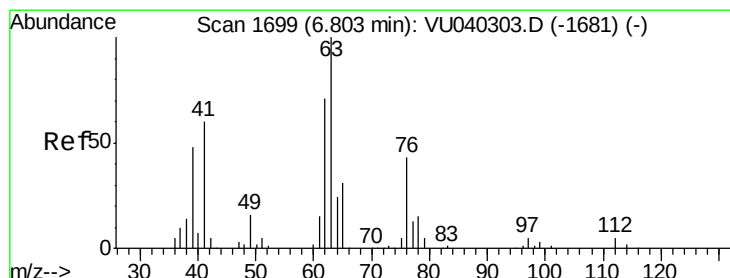
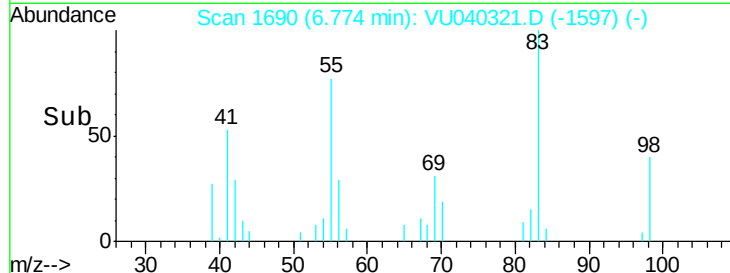
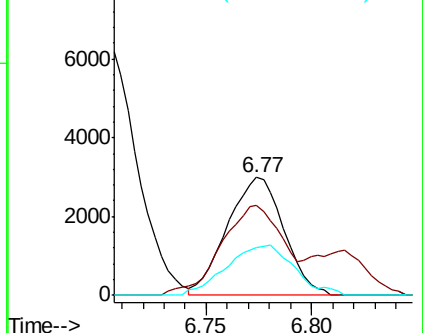
#35
Methylvlcyclohexane
Concen: 0.269 ug/L
RT: 6.77 min Scan# 1690
Delta R.T. 0.00 min
Lab File: VU040321.D
Acq: 25 Sep 2020 23:39

Instrument :
MSVOA_U
ClientSampleId :
BG4A2

Tot Ion: 83 Resp: 5585
Ion Ratio Lower Upper
83 100
55 81.8 70.5 105.7
98 50.4 37.8 56.6

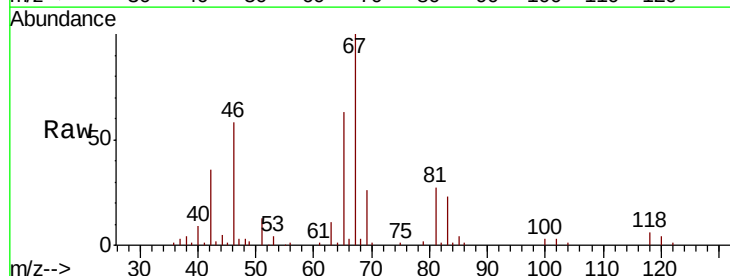


Abundance Ion 83.15 (82.85 to 83.85): VU0
Ion 55.10 (54.80 to 55.80): VU0
Ion 98.15 (97.85 to 98.85): VU0

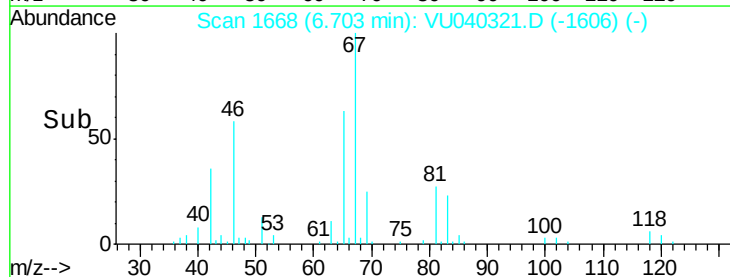
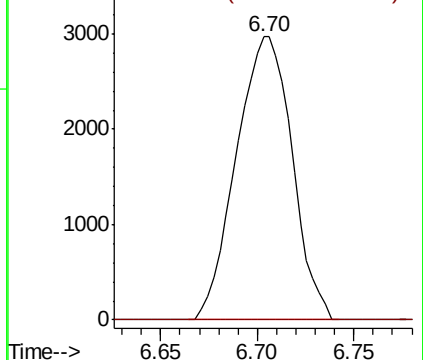


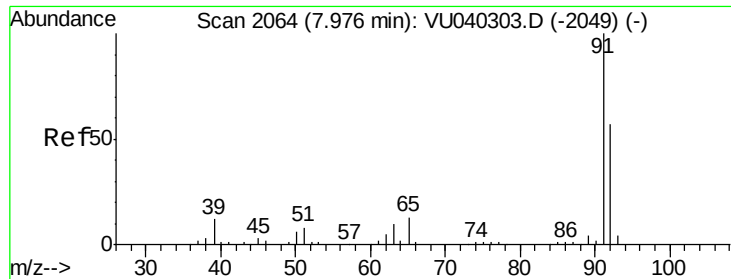
#37
1,2-Dichloropropane
Concen: 0.436 ug/L
RT: 6.70 min Scan# 1668
Delta R.T. -0.10 min
Lab File: VU040321.D
Acq: 25 Sep 2020 23:39

Tgt Ion: 63 Resp: 5967
Ion Ratio Lower Upper
63 100
112 8.8 3.2 4.8#



Abundance Ion 63.10 (62.80 to 63.80): VU0
Ion 112.10 (111.80 to 112.80): V





#42

Toluene

Concen: 0.669 ug/L

RT: 7.97 min Scan# 2063

Delta R.T. -0.00 min

Lab File: VU040321.D

Acq: 25 Sep 2020 23:39

Instrument :

MSVOA_U

ClientSampleId :

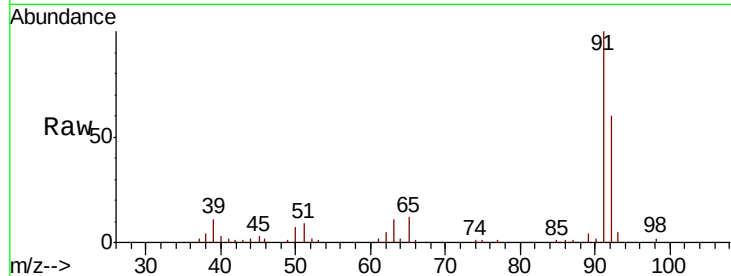
BG4A2

Tot Ion: 91 Resp: 34763

Ion Ratio Lower Upper

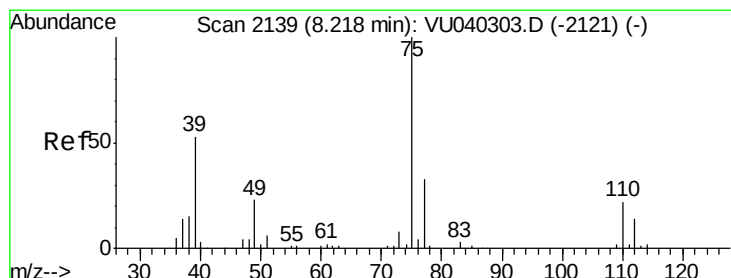
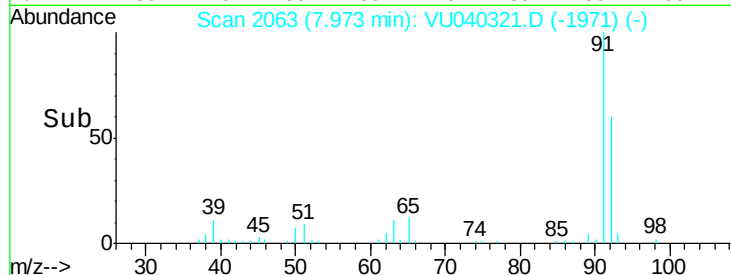
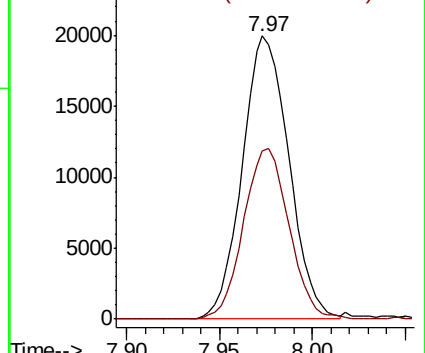
91 100

92 59.6 40.7 75.5



Abundance Ion 91.15 (90.85 to 91.85): VU0

Ion 92.15 (91.85 to 92.85): VU0



#44

trans-1,3-Dichloropropene

Concen: 0.047 ug/L

RT: 8.18 min Scan# 2128

Delta R.T. -0.04 min

Lab File: VU040321.D

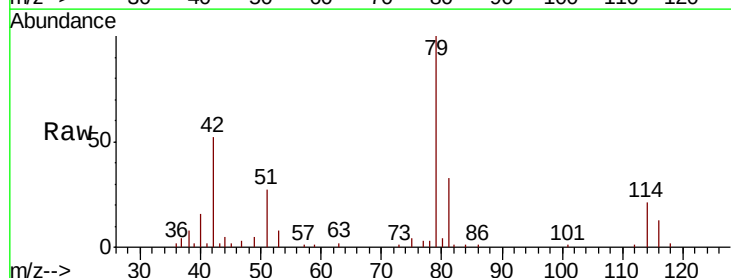
Acq: 25 Sep 2020 23:39

Tgt Ion: 75 Resp: 883

Ion Ratio Lower Upper

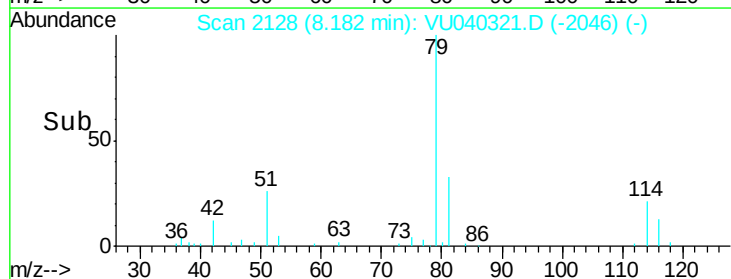
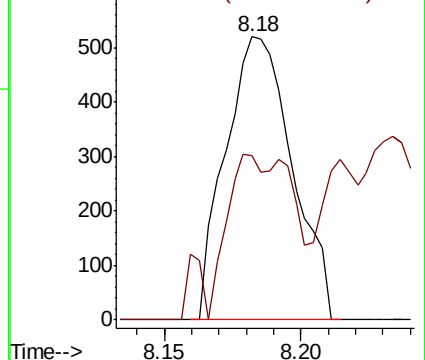
75 100

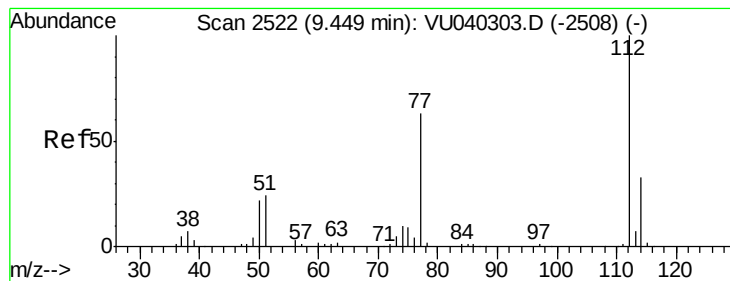
77 57.9 23.9 44.3#



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0





#51

Chlorobenzene

Concen: 19.123 ug/L

RT: 9.45 min Scan# 2522

Delta R.T. 0.00 min

Lab File: VU040321.D

Acq: 25 Sep 2020 23:39

Instrument :

MSVOA_U

ClientSampled :

BG4A2

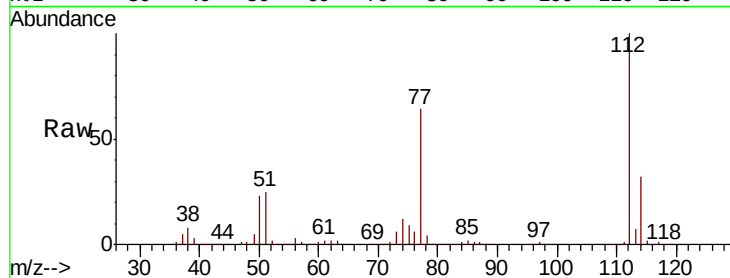
Tot Ion:112 Resp: 617357

Ion Ratio Lower Upper

112 100

114 32.0 22.7 42.3

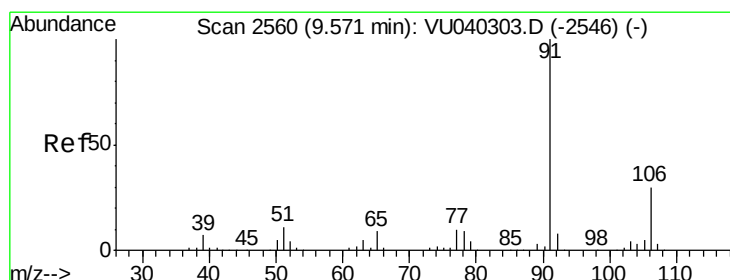
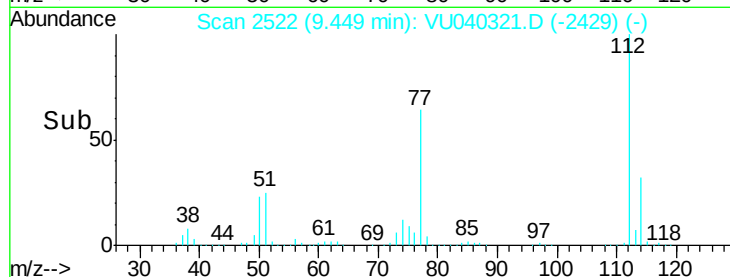
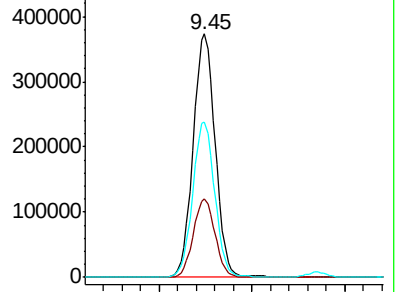
77 63.8 53.2 79.8



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: 2.305 ug/L

RT: 9.57 min Scan# 2560

Delta R.T. 0.00 min

Lab File: VU040321.D

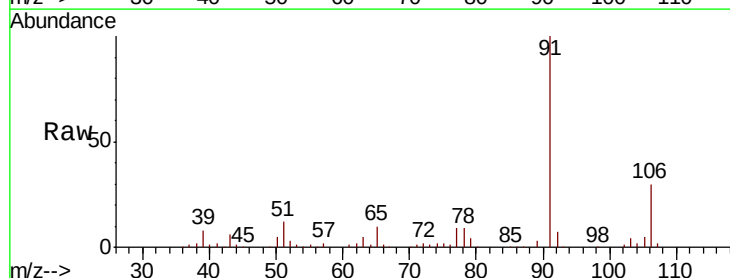
Acq: 25 Sep 2020 23:39

Tgt Ion: 91 Resp: 136161

Ion Ratio Lower Upper

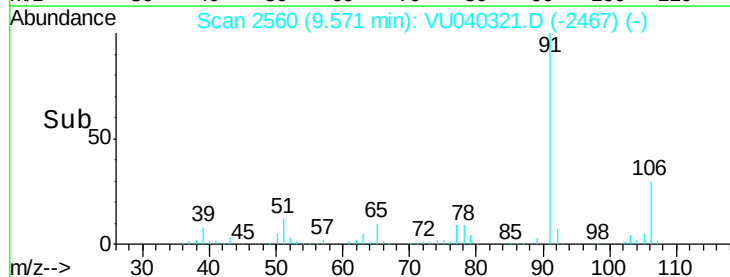
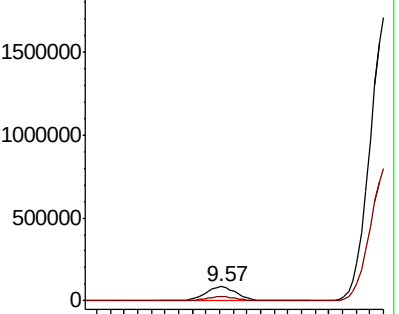
91 100

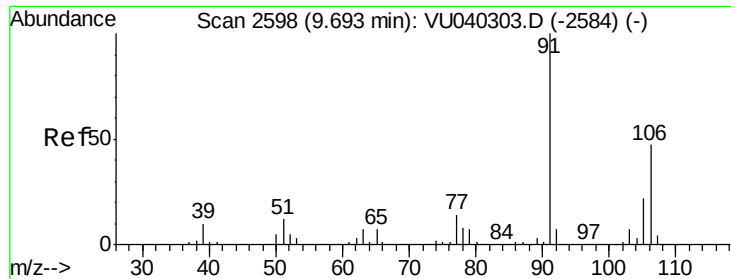
106 30.5 21.0 39.0



Abundance Ion 91.15 (90.85 to 91.85): V

Ion 106.15 (105.85 to 106.85): V





#53

m,p-Xylene

Concen: 60.723 ug/L

RT: 9.69 min Scan# 2597

Delta R.T. -0.00 min

Lab File: VU040321.D

Acq: 25 Sep 2020 23:39

Instrument :

MSVOA_U

ClientSampleId :

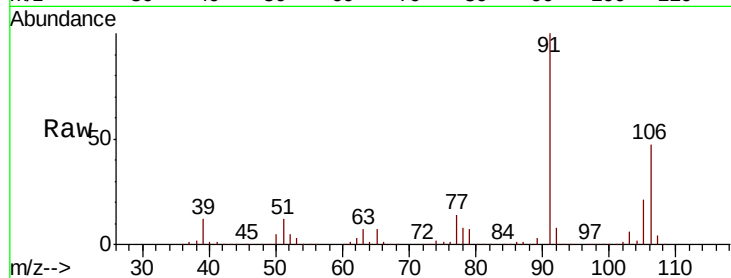
BG4A2

Tot Ion:106 Resp: 1277272

Ion Ratio Lower Upper

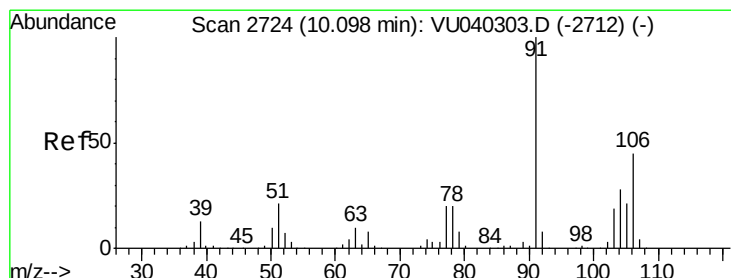
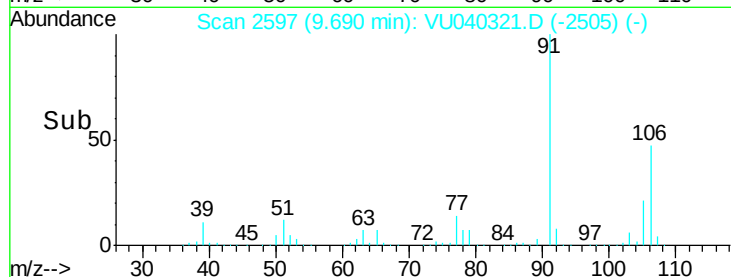
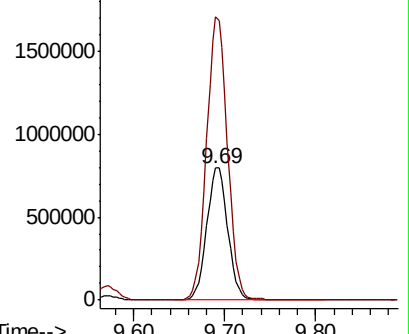
106 100

91 214.3 151.7 281.7



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#54

o-Xylene

Concen: 28.111 ug/L

RT: 10.10 min Scan# 2724

Delta R.T. 0.00 min

Lab File: VU040321.D

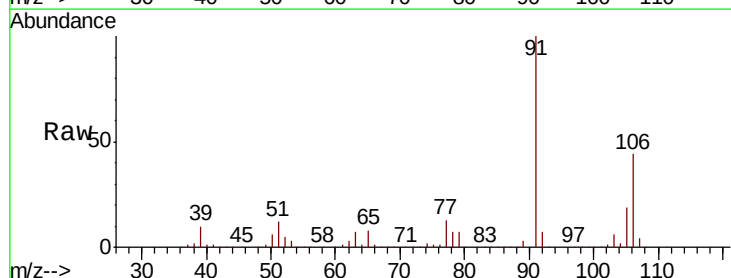
Acq: 25 Sep 2020 23:39

Tgt Ion:106 Resp: 563477

Ion Ratio Lower Upper

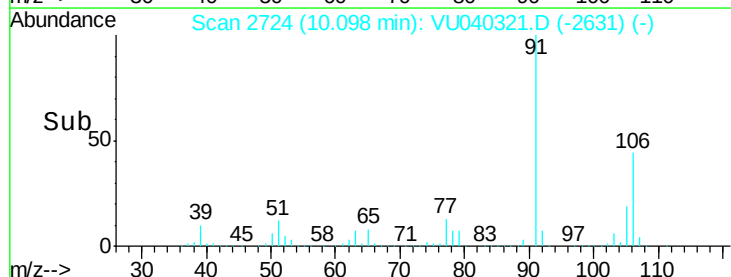
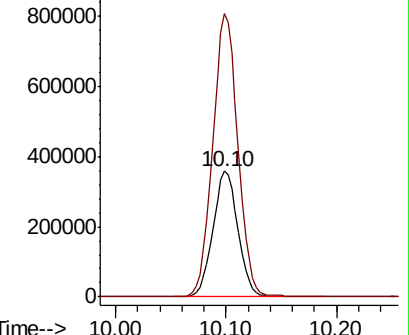
106 100

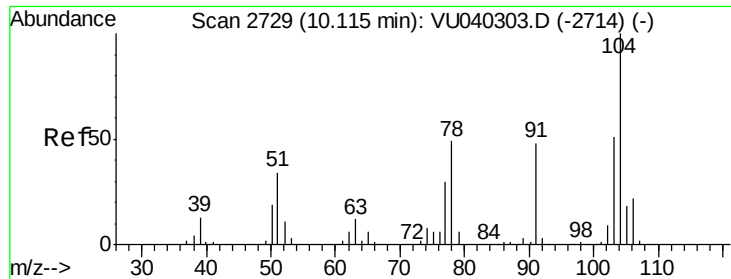
91 225.6 160.8 298.6



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0

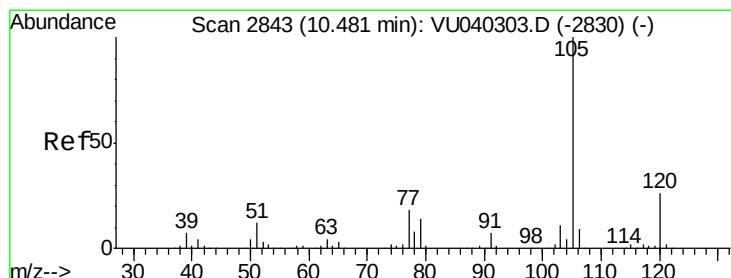
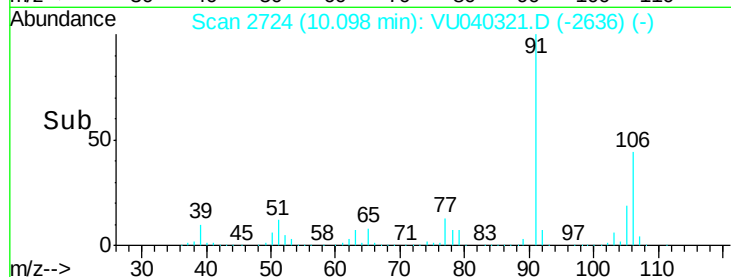
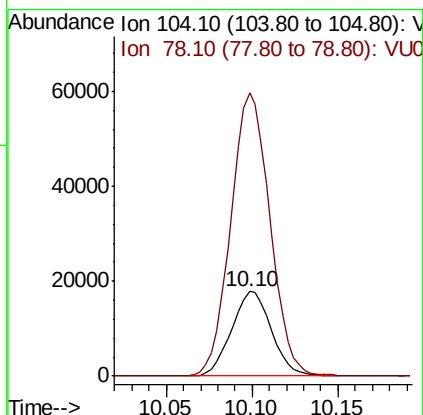
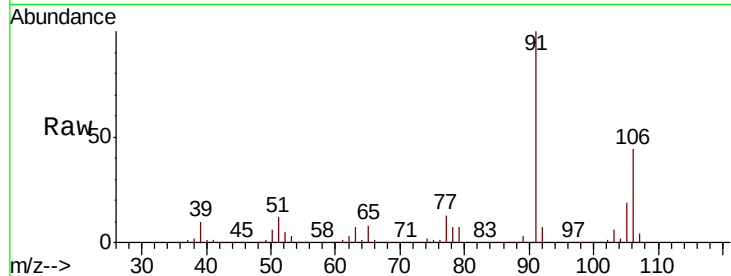




#55
Stvrene
Concen: 0.829 ug/L
RT: 10.10 min Scan# 2724
Delta R.T. -0.02 min
Lab File: VU040321.D
Acq: 25 Sep 2020 23:39

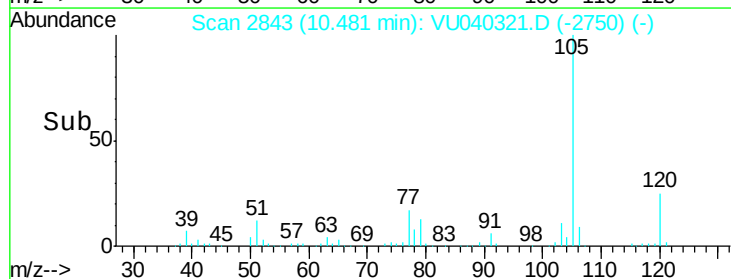
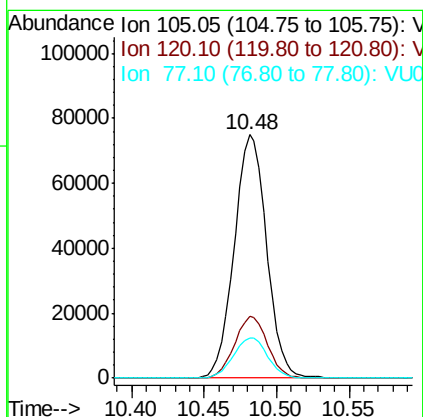
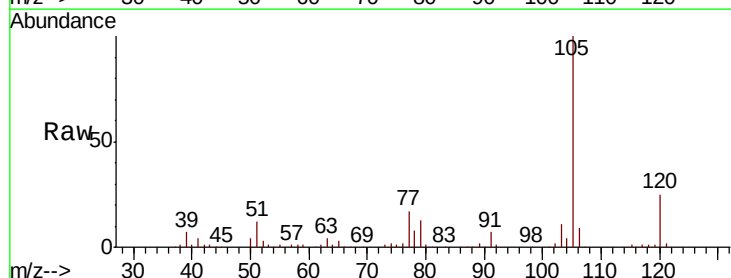
Instrument :
MSVOA_U
ClientSampleId :
BG4A2

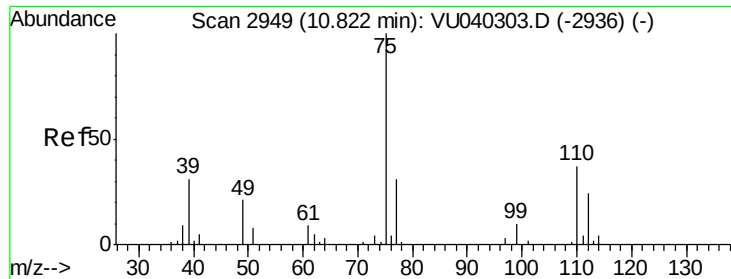
Tot Ion:104 Resp: 28885
Ion Ratio Lower Upper
104 100
78 335.2 36.8 68.3#



#56
Isopropylbenzene
Concen: 2.128 ug/L
RT: 10.48 min Scan# 2843
Delta R.T. 0.00 min
Lab File: VU040321.D
Acq: 25 Sep 2020 23:39

Tgt Ion:105 Resp: 116330
Ion Ratio Lower Upper
105 100
120 25.6 20.1 30.1
77 17.5 14.4 21.6

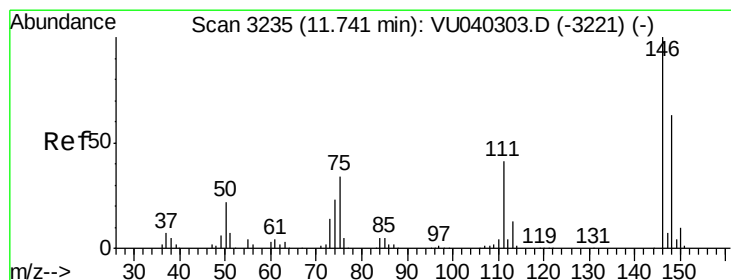
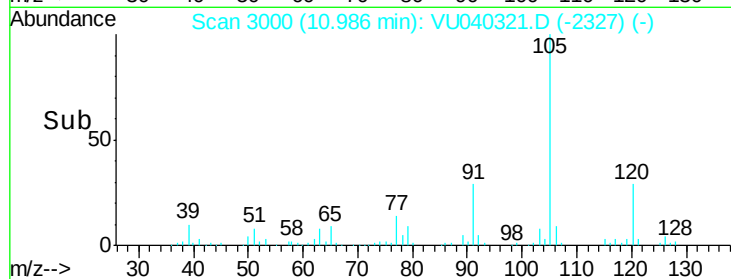
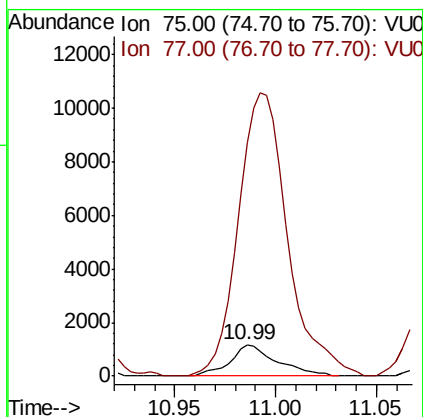
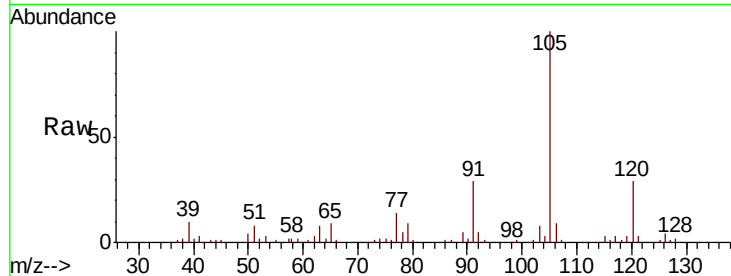




#59
 1,2,3-Trichloropropane
 Concen: 0.187 ug/L
 RT: 10.99 min Scan# 3000
 Delta R.T. 0.16 min
 Lab File: VU040321.D
 Acq: 25 Sep 2020 23:39

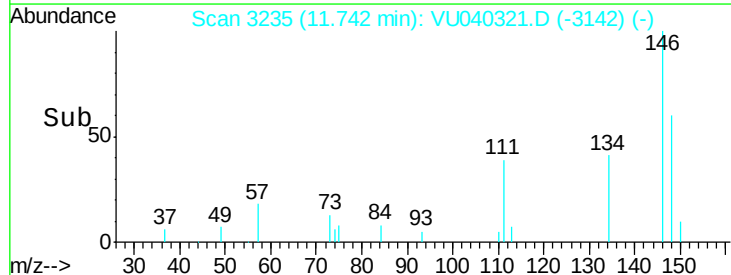
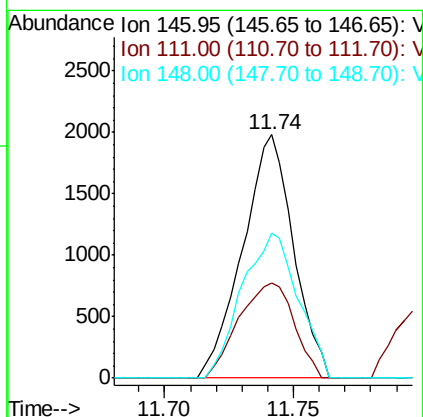
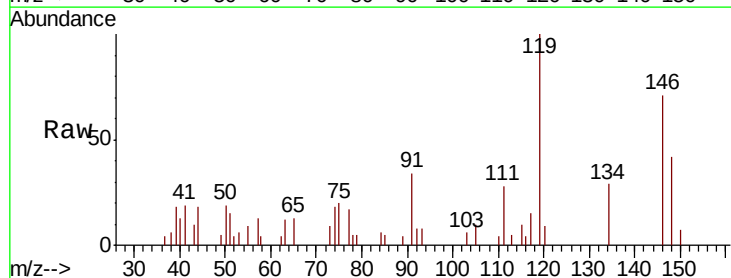
Instrument :
 MSVOA_U
 ClientSampleId :
 BG4A2

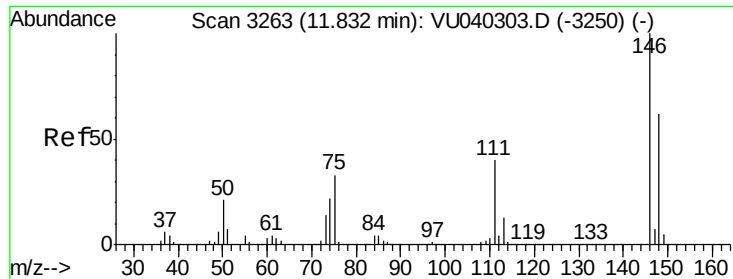
Tot Ion: 75 Resp: 1899
 Ion Ratio Lower Upper
 75 100
 77 956.6 24.9 37.3#



#62
 1,3-Dichlorobenzene
 Concen: 0.105 ug/L
 RT: 11.74 min Scan# 3235
 Delta R.T. 0.00 min
 Lab File: VU040321.D
 Acq: 25 Sep 2020 23:39

Tgt Ion: 146 Resp: 2727
 Ion Ratio Lower Upper
 146 100
 111 39.3 31.6 58.8
 148 59.5 44.2 82.0

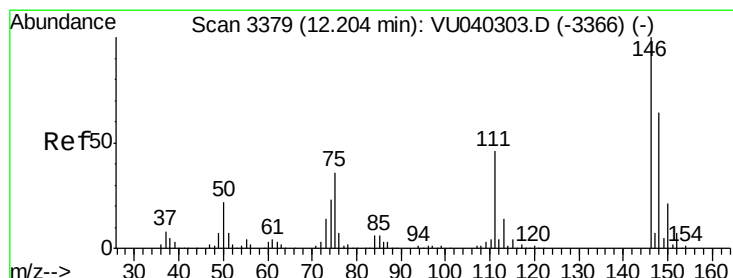
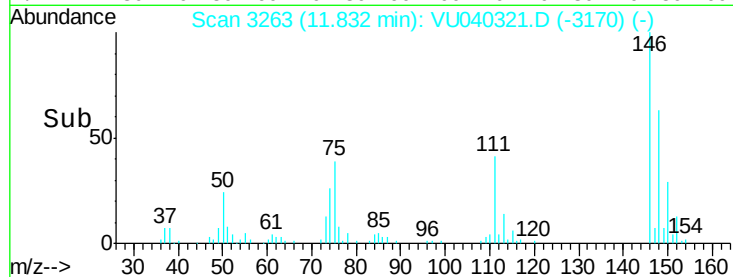
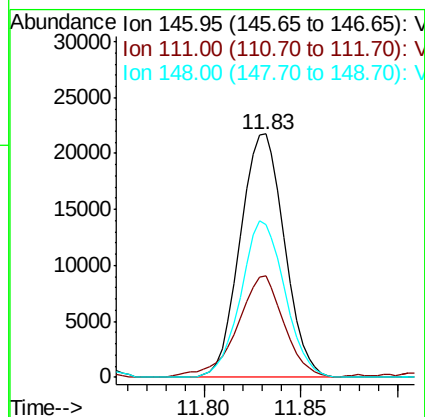
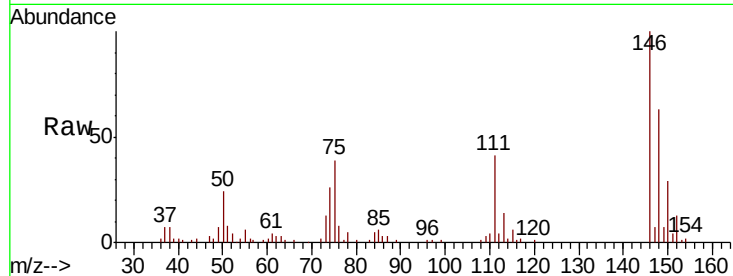




#63
 1,4-Dichlorobenzene
 Concen: 1.324 ug/L
 RT: 11.83 min Scan# 3263
 Delta R.T. 0.00 min
 Lab File: VU040321.D
 Acq: 25 Sep 2020 23:39

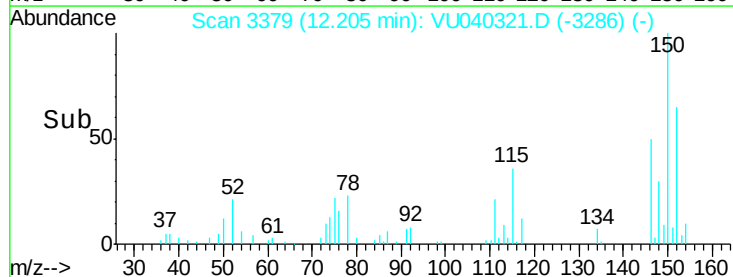
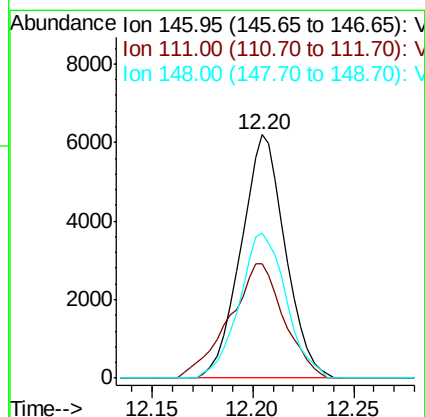
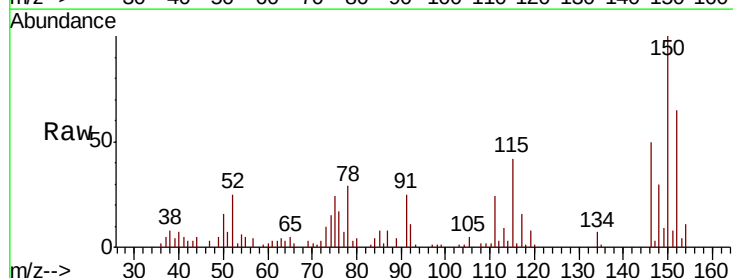
Instrument :
 MSVOA_U
 ClientSampleId :
 BG4A2

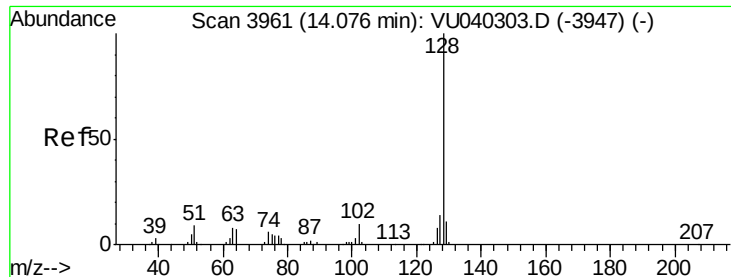
Tot Ion:146 Resp: 34644
 Ion Ratio Lower Upper
 146 100
 111 41.5 30.5 56.7
 148 62.9 45.4 84.4



#65
 1,2-Dichlorobenzene
 Concen: 0.380 ug/L
 RT: 12.20 min Scan# 3379
 Delta R.T. 0.00 min
 Lab File: VU040321.D
 Acq: 25 Sep 2020 23:39

Tgt Ion:146 Resp: 9514
 Ion Ratio Lower Upper
 146 100
 111 47.0 36.5 54.7
 148 59.4 48.6 72.8





#69

Naphthalene

Concen: 1.342 ug/L

RT: 14.08 min Scan# 3961

Delta R.T. 0.00 min

Lab File: VU040321.D

Acq: 25 Sep 2020 23:39

Instrument :

MSVOA_U

ClientSampleId :

BG4A2

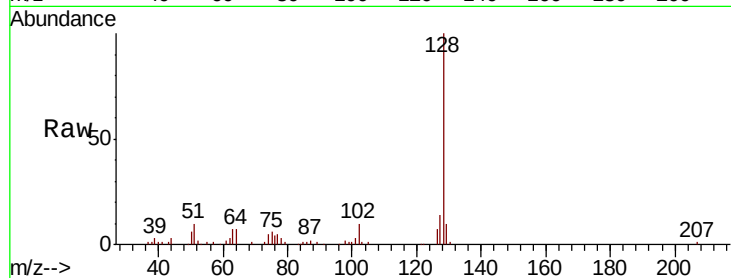
Tot Ion:128 Resp: 43820

Ion Ratio Lower Upper

128 100

129 10.9 8.7 13.1

127 13.2 10.7 16.1



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

