

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU093020\
 Data File : VU040399.D
 Acq On : 30 Sep 2020 15:16
 Operator : SY/MD
 Sample : L4139-10
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BG4A2

Quant Time: Oct 01 03:07:47 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	132676	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	124105	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	66472	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	26282	4.00	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	80.00%
7) Chloroethane-d5	1.92	69	26265	4.57	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	91.40%
11) 1,1-Dichloroethene-d2	2.58	63	42743	2.71	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	54.20%#
20) 2-Butanone-d5	4.65	46	151710	46.50	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	93.00%
24) Chloroform-d	5.08	84	69857	4.47	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	89.40%
26) 1,2-Dichloroethane-d4	5.72	65	42769	4.49	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	89.80%
32) Benzene-d6	5.75	84	120628	4.84	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	96.80%
36) 1,2-Dichloropropane-d6	6.70	67	44220	4.84	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	96.80%
41) Toluene-d8	7.91	98	92683	4.28	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	85.60%
43) trans-1,3-Dichloropropene-	8.19	79	15424	4.14	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	82.80%
46) 2-Hexanone-d5	8.64	63	102974	47.00	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	94.00%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	40608	4.57	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	91.40%
64) 1,2-Dichlorobenzene-d4	12.19	152	49022	4.86	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	97.20%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chloromethane	1.53	50	1226	0.094	ug/L	86
8) Chloroethane	1.94	64	7687	1.011	ug/L #	69
13) Acetone	2.66	43	3878	1.426	ug/L	73
14) Carbon disulfide	2.81	76	1537	0.048	ug/L #	75
17) Methyl tert-butyl Ether	3.38	73	11679	0.420	ug/L #	43
25) Chloroform	5.11	83	4271	0.195	ug/L	99
27) 1,2-Dichloroethane	5.79	62	51319	3.388	ug/L #	74
30) Cyclohexane	5.40	56	6399	0.365	ug/L	92
33) Benzene	5.79	78	5304826	127.494	ug/L	100
34) Trichloroethene	6.27	95	2377	0.215	ug/L #	8
35) Methylcyclohexane	6.77	83	4101	0.253	ug/L	92
37) 1,2-Dichloropropane	6.70	63	4812	0.415	ug/L	98
39) cis-1,3-Dichloropropene	7.57	75	1154	0.074	ug/L	86
42) Toluene	7.98	91	14820	0.347	ug/L	97
48) 2-Hexanone	8.64	43	18034	2.697	ug/L #	68
51) Chlorobenzene	9.45	112	543651	19.708	ug/L	98
52) Ethylbenzene	9.57	91	128963	2.785	ug/L	100

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

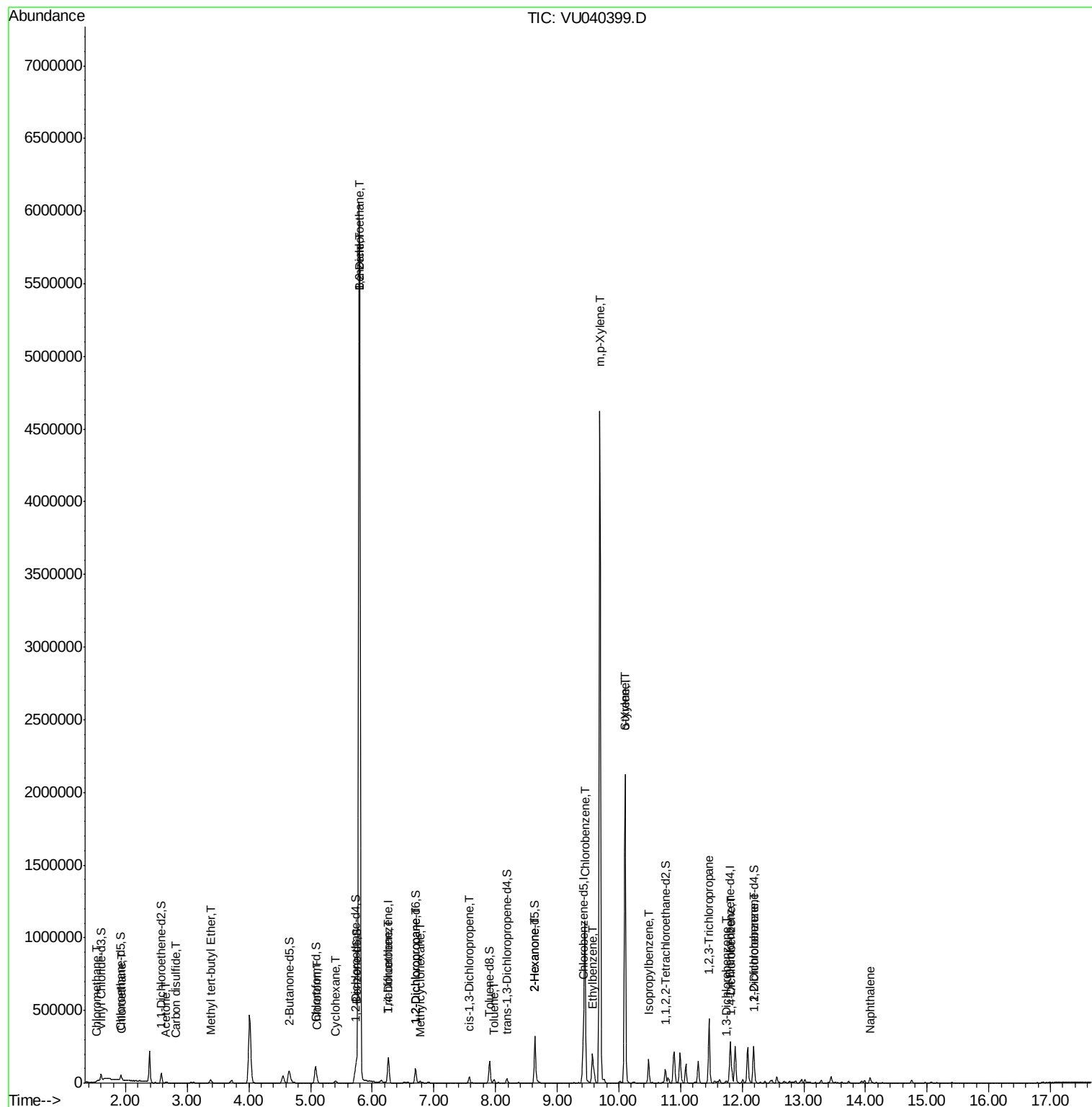
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
53) m,p-Xylene	9.69	106	1188913	68.930	ug/L	99
54) o-Xylene	10.10	106	514500	31.708	ug/L	97
55) Styrene	10.10	104	26666	0.942	ug/L #	1
56) Isopropylbenzene	10.48	105	95744	2.187	ug/L	99
59) 1,2,3-Trichloropropane	11.46	75	2466	0.294	ug/L #	1
62) 1,3-Dichlorobenzene	11.74	146	2394	0.109	ug/L	96
63) 1,4-Dichlorobenzene	11.83	146	29528	1.290	ug/L	95
65) 1,2-Dichlorobenzene	12.20	146	8103	0.379	ug/L	91
69) Naphthalene	14.08	128	27812	1.289	ug/L	97

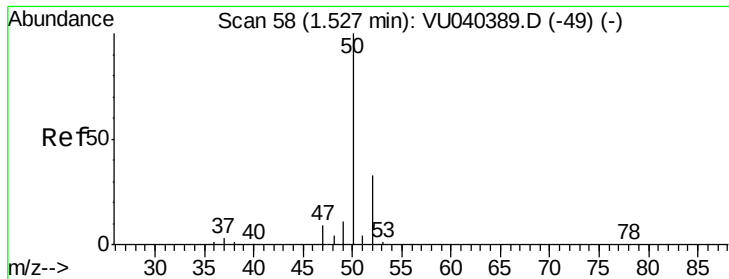
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.094 ug/L

RT: 1.53 min Scan# 58

Delta R.T. 0.00 min

Lab File: VU040399.D

Acq: 30 Sep 2020 15:16

Instrument :

MSVOA_U

ClientSampled :

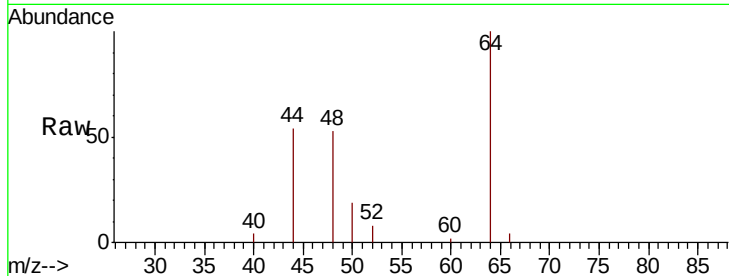
BG4A2

Tot Ion: 50 Resp: 1226

Ion Ratio Lower Upper

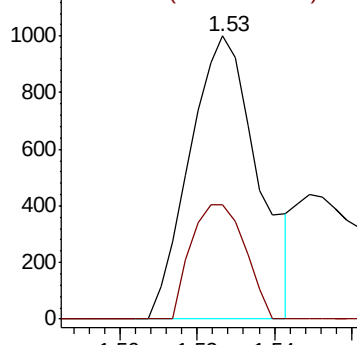
50 100

52 40.5 23.0 42.6

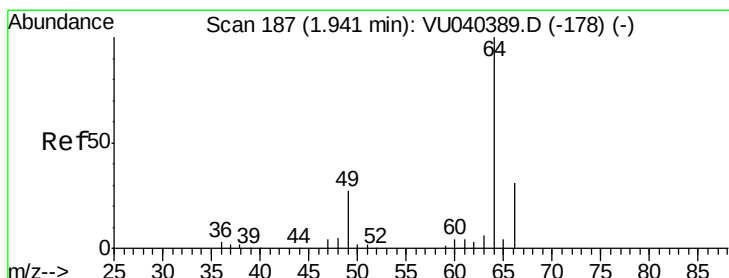
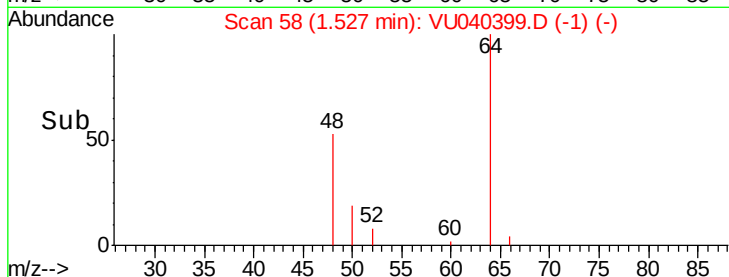


Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0



Time-->



#8

Chloroethane

Concen: 1.011 ug/L

RT: 1.94 min Scan# 188

Delta R.T. 0.00 min

Lab File: VU040399.D

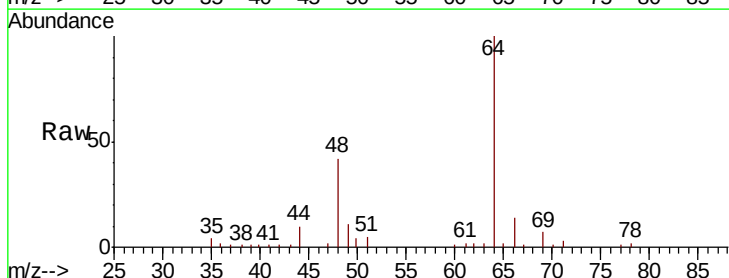
Acq: 30 Sep 2020 15:16

Tgt Ion: 64 Resp: 7687

Ion Ratio Lower Upper

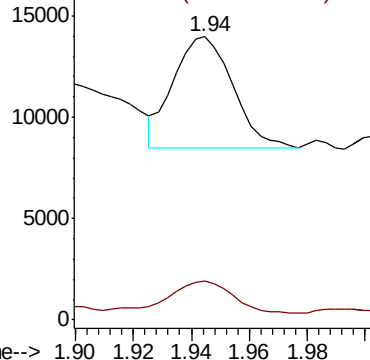
64 100

66 13.8 21.3 39.6#

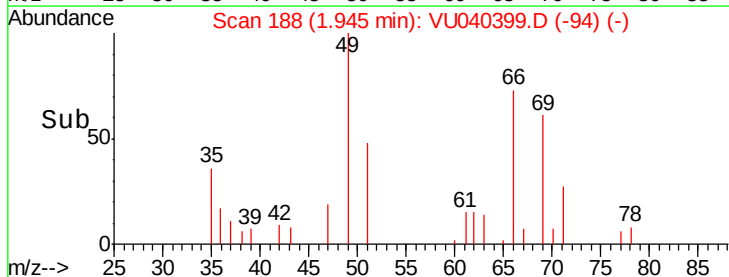


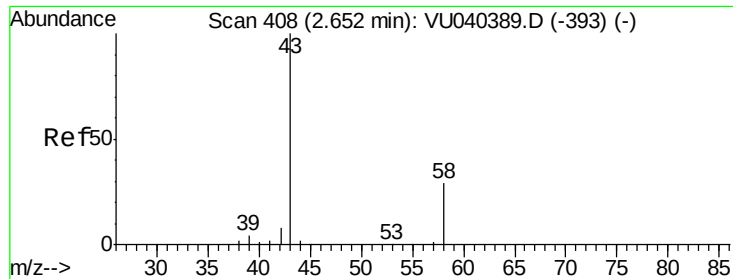
Abundance Ion 64.10 (63.80 to 64.80): VU0

Ion 66.05 (65.75 to 66.75): VU0



Time-->





#13

Acetone

Concen: 1.426 ug/L

RT: 2.66 min Scan# 412

Delta R.T. 0.01 min

Lab File: VU040399.D

Acq: 30 Sep 2020 15:16

Instrument :

MSVOA_U

ClientSampleId :

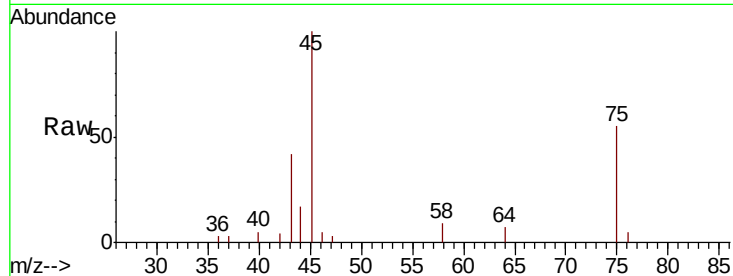
BG4A2

Tot Ion: 43 Resp: 3878

Ion Ratio Lower Upper

43 100

58 16.2 0.0 61.8



Abundance Ion 43.05 (42.75 to 43.75): VU040389.D (-393) (-)

Ion 58.05 (57.75 to 58.75): VU040389.D (-393) (-)

2.66

1500

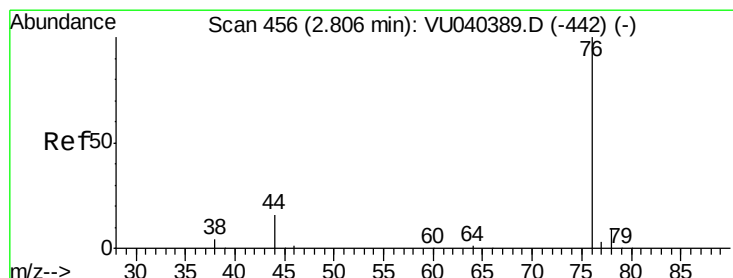
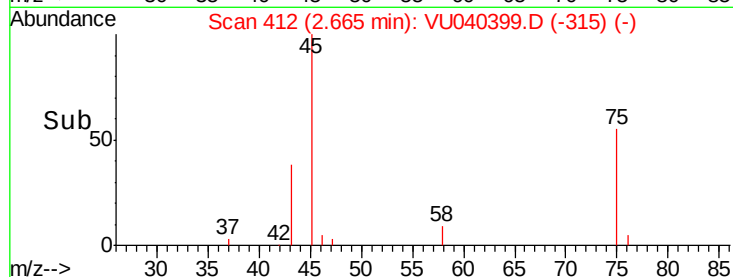
1000

500

0

2.60 2.65 2.70 2.75

Time-->



#14

Carbon disulfide

Concen: 0.048 ug/L

RT: 2.81 min Scan# 458

Delta R.T. 0.01 min

Lab File: VU040399.D

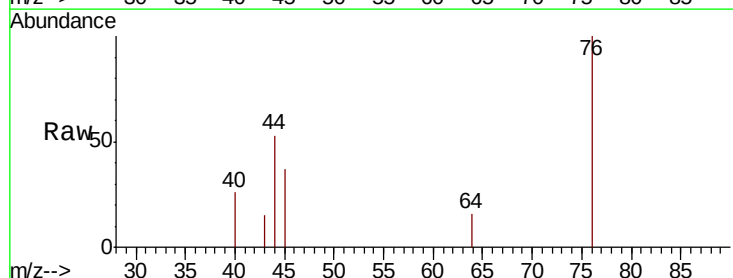
Acq: 30 Sep 2020 15:16

Tgt Ion: 76 Resp: 1537

Ion Ratio Lower Upper

76 100

78 0.0 7.2 10.8#



Abundance Ion 76.05 (75.75 to 76.75): VU040389.D (-442) (-)

Ion 78.00 (77.70 to 78.70): VU040389.D (-442) (-)

2.81

1000

800

600

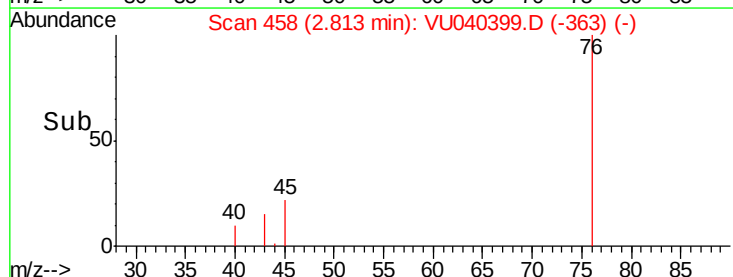
400

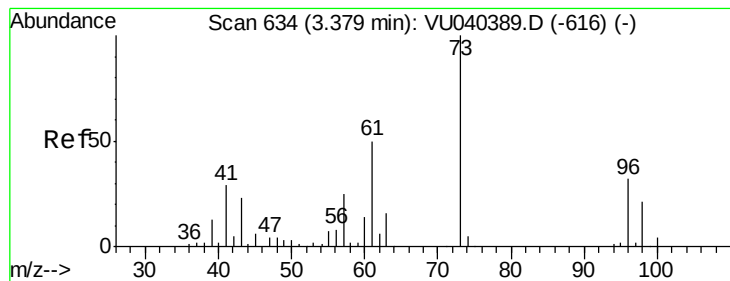
200

0

2.76 2.78 2.80 2.82 2.84

Time-->



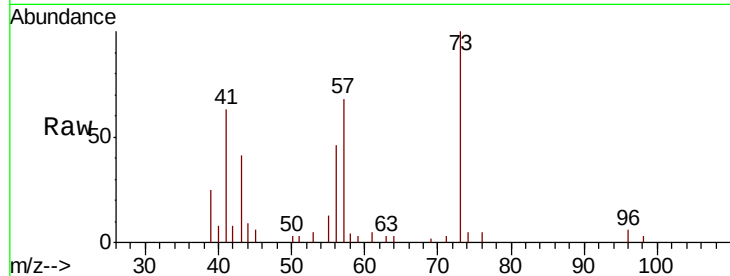


#17

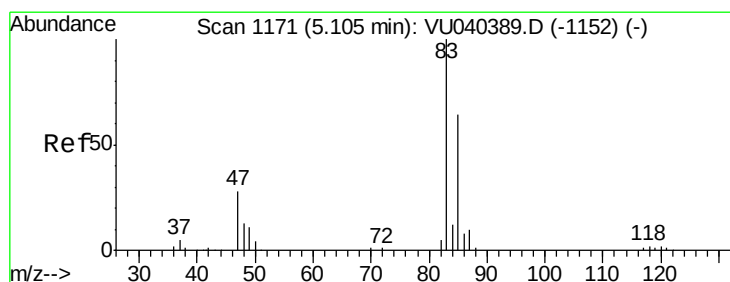
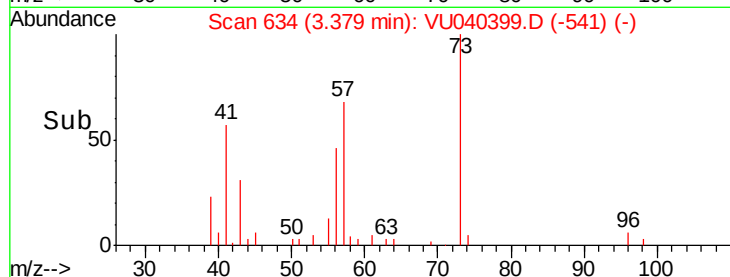
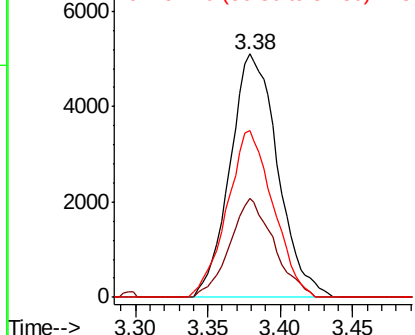
Methyl tert-butyl Ether
 Concen: 0.420 ug/L
 RT: 3.38 min Scan# 634
 Delta R.T. 0.00 min
 Lab File: VU040399.D
 Acq: 30 Sep 2020 15:16

Instrument :
 MSVOA_U
 ClientSampleId :
 BG4A2

Tot Ion: 73 Resp: 11679
 Ion Ratio Lower Upper
 73 100
 43 37.5 19.0 28.4#
 57 66.2 18.9 28.3#



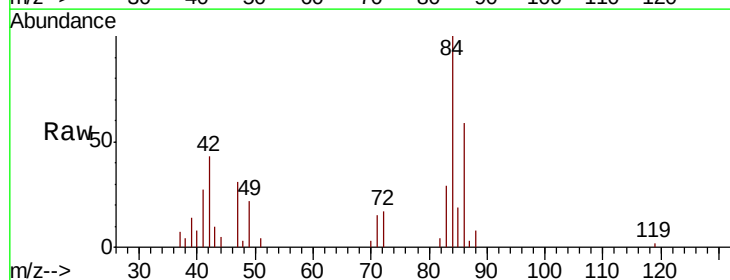
Abundance Ion 73.10 (72.80 to 73.80): VU0
 Ion 43.05 (42.75 to 43.75): VU0
 Ion 57.10 (56.80 to 57.80): VU0



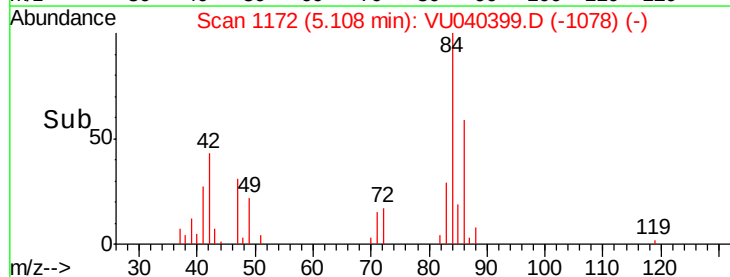
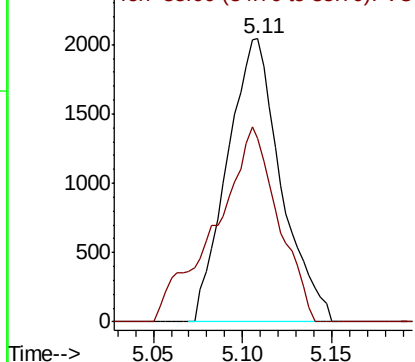
#25

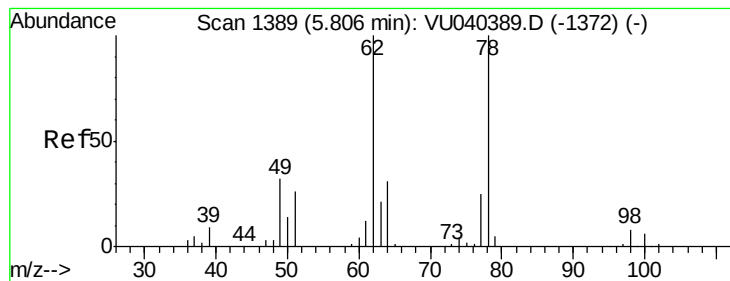
Chloroform
 Concen: 0.195 ug/L
 RT: 5.11 min Scan# 1172
 Delta R.T. 0.00 min
 Lab File: VU040399.D
 Acq: 30 Sep 2020 15:16

Tgt Ion: 83 Resp: 4271
 Ion Ratio Lower Upper
 83 100
 85 64.7 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: 3.388 ug/L

RT: 5.79 min Scan# 1384

Delta R.T. -0.02 min

Lab File: VU040399.D

Acq: 30 Sep 2020 15:16

Instrument :

MSVOA_U

ClientSampleId :

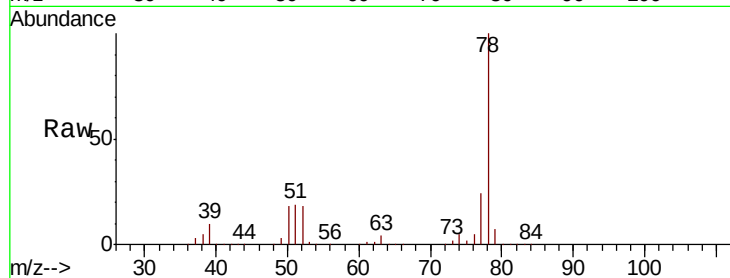
BG4A2

Tot Ion: 62 Resp: 51319

Ion Ratio Lower Upper

62 100

98 0.0 7.5 11.3#



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 98.05 (97.75 to 98.75): VU0

5.79

25000

20000

15000

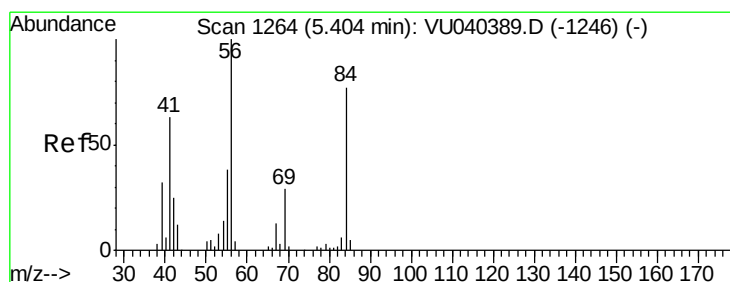
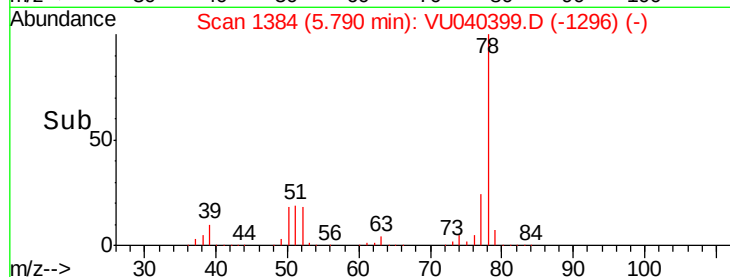
10000

5000

0

Time-->

5.70 5.80 5.90



#30

Cyclohexane

Concen: 0.365 ug/L

RT: 5.40 min Scan# 1264

Delta R.T. 0.00 min

Lab File: VU040399.D

Acq: 30 Sep 2020 15:16

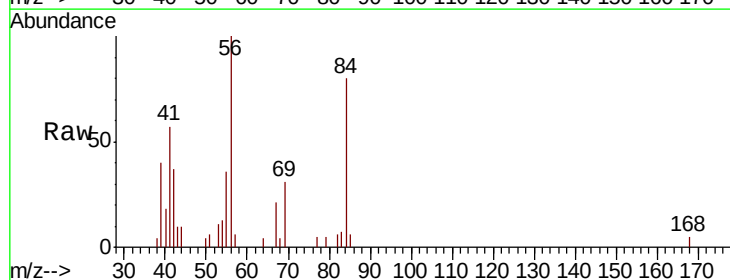
Tgt Ion: 56 Resp: 6399

Ion Ratio Lower Upper

56 100

69 32.3 23.3 34.9

84 88.2 64.2 96.4



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

4000

3000

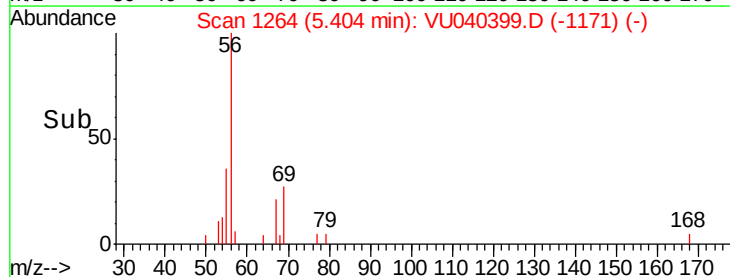
2000

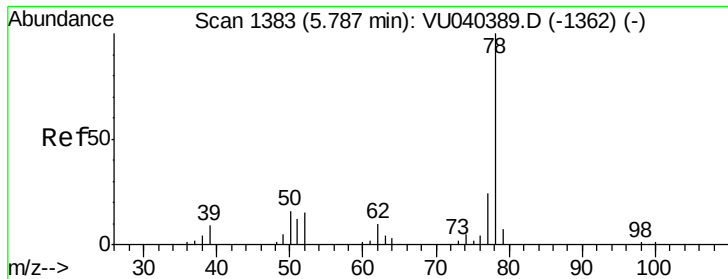
1000

0

Time-->

5.35 5.40 5.45





#33

Benzene

Concen: 127.494 ug/L

RT: 5.79 min Scan# 1384

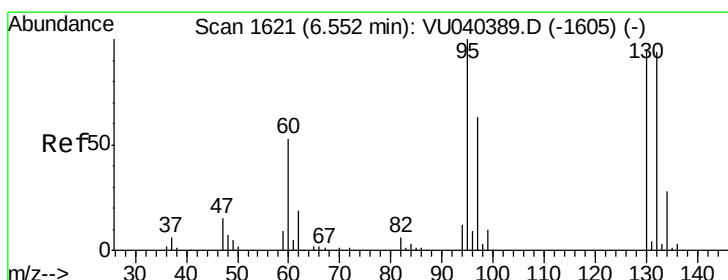
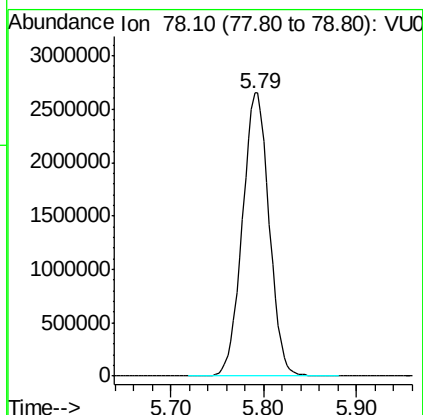
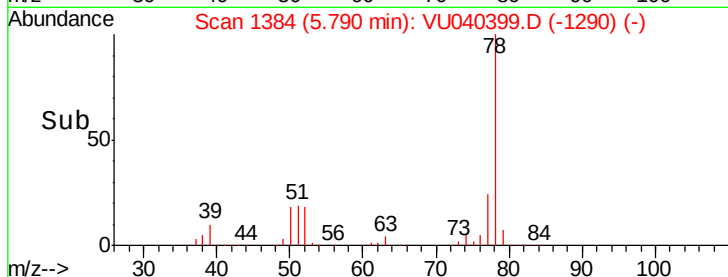
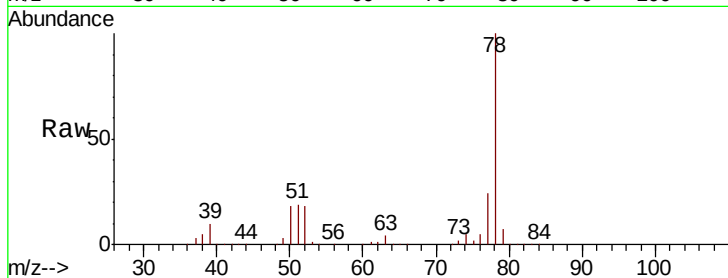
Delta R.T. 0.00 min

Lab File: VU040399.D

Acq: 30 Sep 2020 15:16

Instrument :
MSVOA_U
ClientSampleId :
BG4A2

Tgt Ion: 78 Resp: 5304826



#34

Trichloroethene

Concen: 0.215 ug/L

RT: 6.27 min Scan# 1532

Delta R.T. -0.29 min

Lab File: VU040399.D

Acq: 30 Sep 2020 15:16

Tgt Ion: 95 Resp: 2377

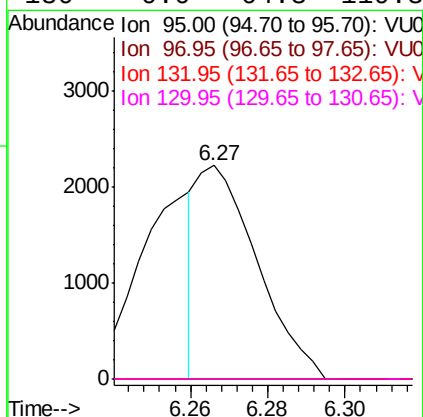
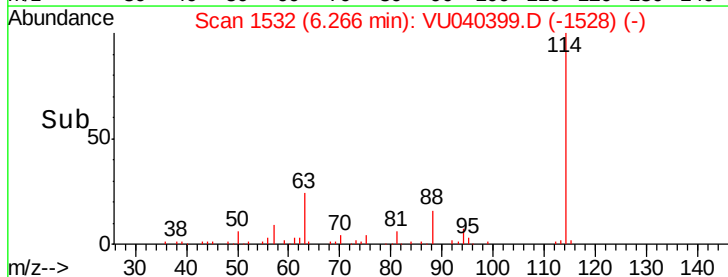
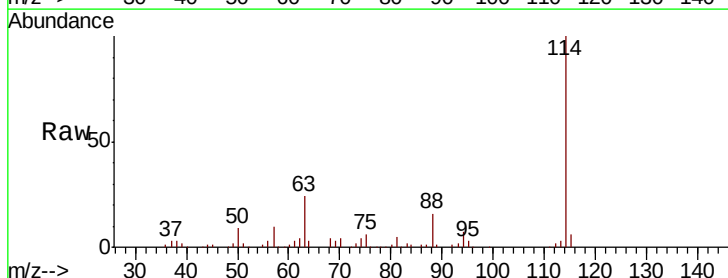
Ion	Ratio	Lower	Upper
95	100		
97	0.0	46.3	85.9#
132	0.0	60.5	112.3#
130	0.0	64.3	119.3#

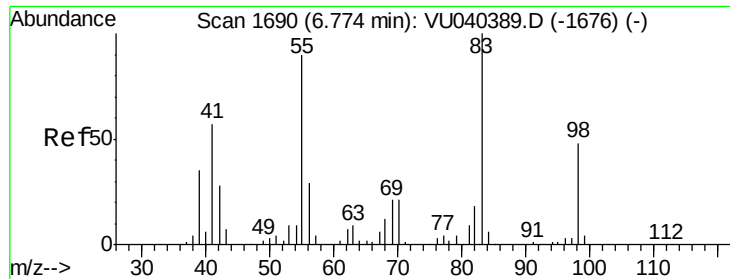
95 100

97 0.0 46.3 85.9#

132 0.0 60.5 112.3#

130 0.0 64.3 119.3#

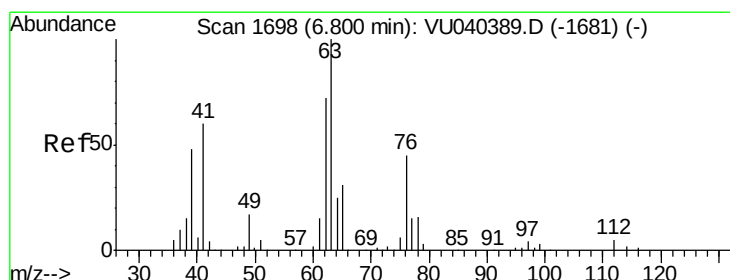
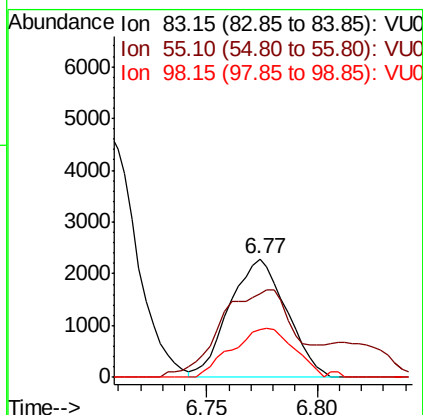
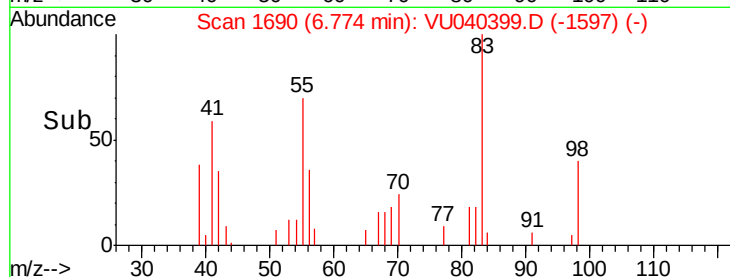
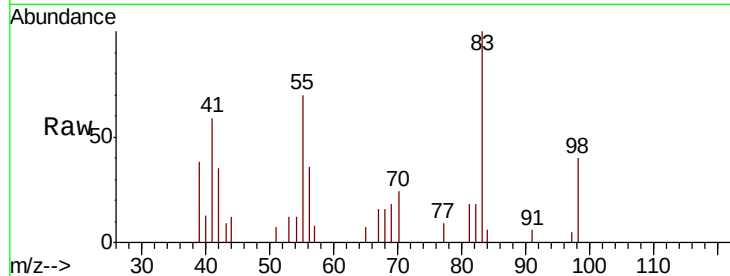




#35
Methylvlcyclohexane
Concen: 0.253 ug/L
RT: 6.77 min Scan# 1690
Delta R.T. 0.00 min
Lab File: VU040399.D
Acq: 30 Sep 2020 15:16

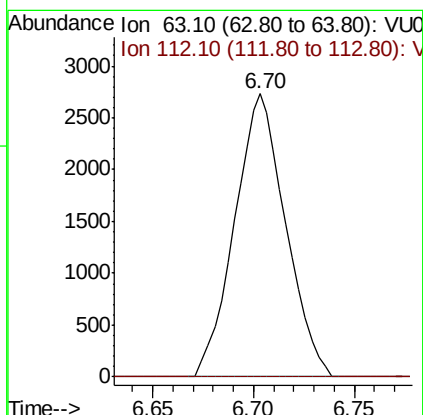
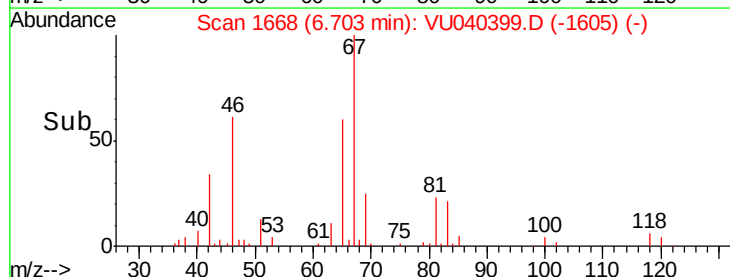
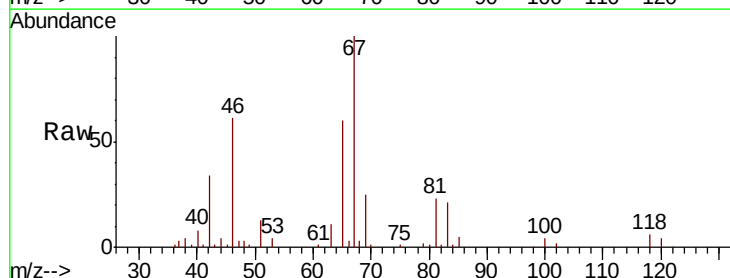
Instrument :
MSVOA_U
ClientSampleId :
BG4A2

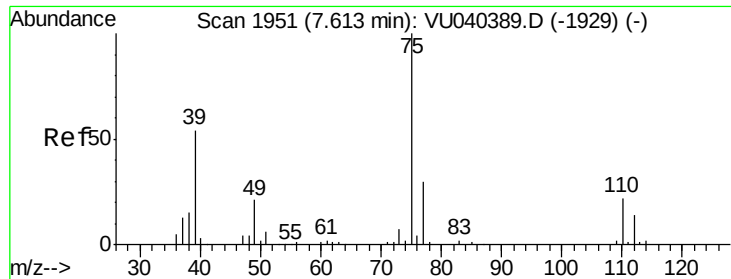
Tot Ion: 83 Resp: 4101
Ion Ratio Lower Upper
83 100
55 98.3 71.4 107.2
98 44.7 38.5 57.7



#37
1,2-Dichloropropane
Concen: 0.415 ug/L
RT: 6.70 min Scan# 1668
Delta R.T. -0.10 min
Lab File: VU040399.D
Acq: 30 Sep 2020 15:16

Tgt Ion: 63 Resp: 4812
Ion Ratio Lower Upper
63 100
112 4.7 3.2 4.8

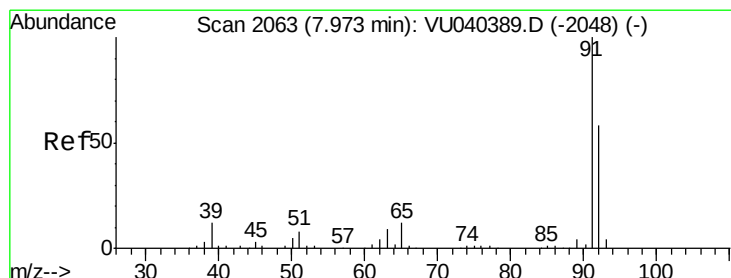
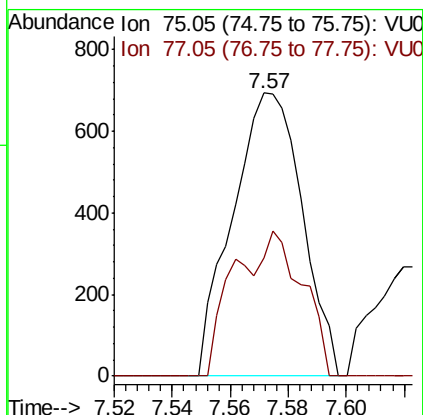
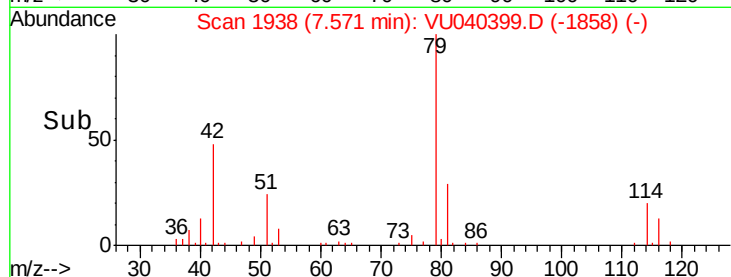
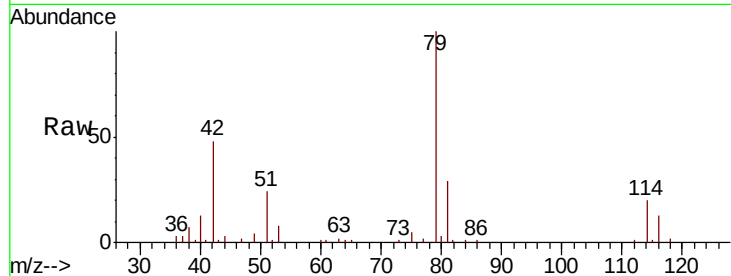




#39
 cis-1,3-Dichloropropene
 Concen: 0.074 ug/L
 RT: 7.57 min Scan# 1938
 Delta R.T. -0.04 min
 Lab File: VU040399.D
 Acq: 30 Sep 2020 15:16

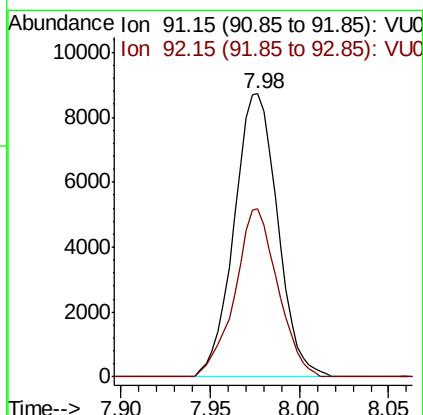
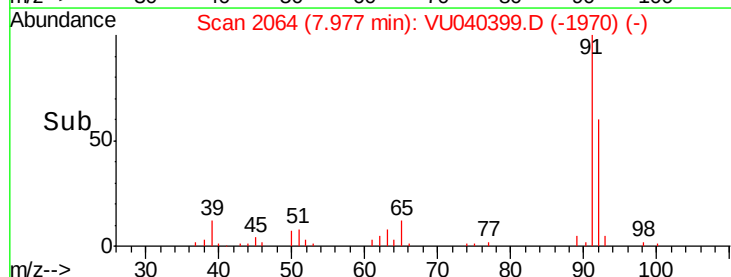
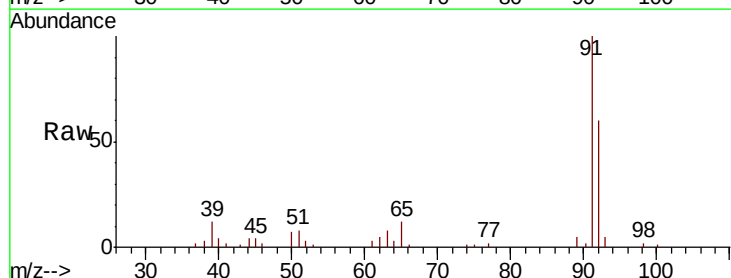
Instrument :
 MSVOA_U
 ClientSampleId :
 BG4A2

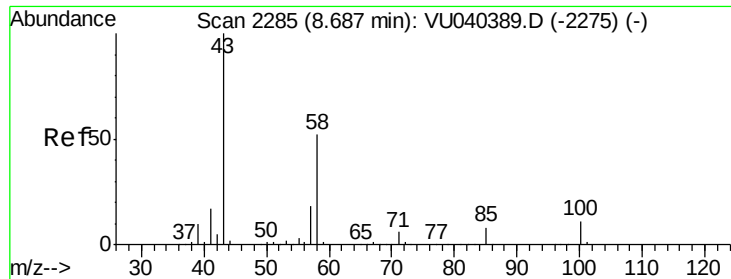
Tot Ion: 75 Resp: 1154
 Ion Ratio Lower Upper
 75 100
 77 41.8 23.5 43.7



#42
 Toluene
 Concen: 0.347 ug/L
 RT: 7.98 min Scan# 2064
 Delta R.T. 0.00 min
 Lab File: VU040399.D
 Acq: 30 Sep 2020 15:16

Tgt Ion: 91 Resp: 14820
 Ion Ratio Lower Upper
 91 100
 92 59.6 40.0 74.4

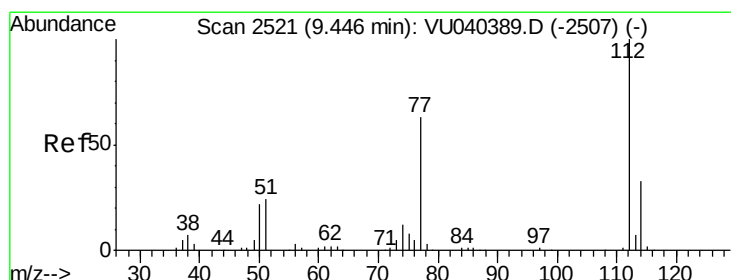
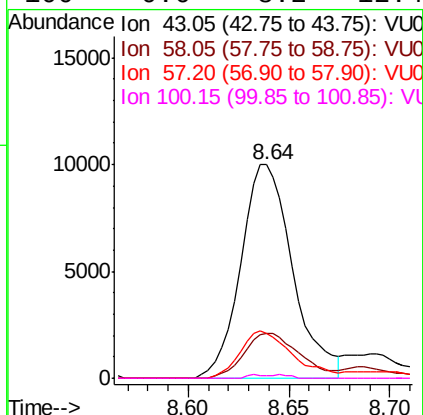
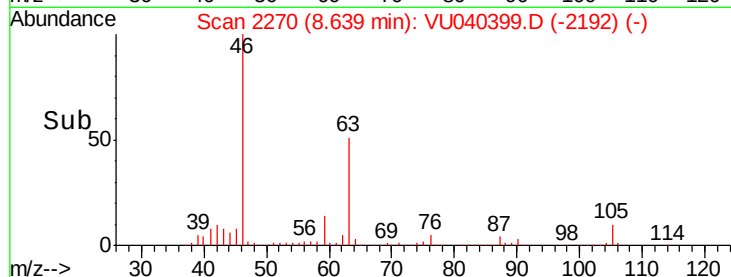
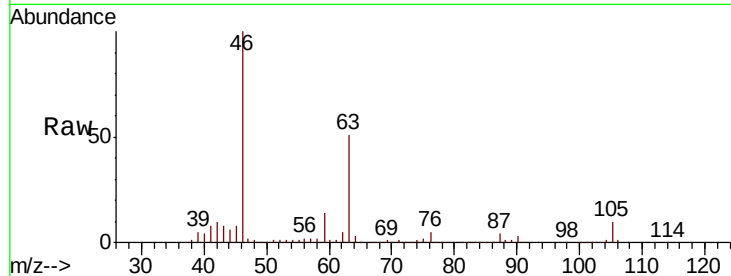




#48
2-Hexanone
Concen: 2.697 ug/L
RT: 8.64 min Scan# 2270
Delta R.T. -0.05 min
Lab File: VU040399.D
Acq: 30 Sep 2020 15:16

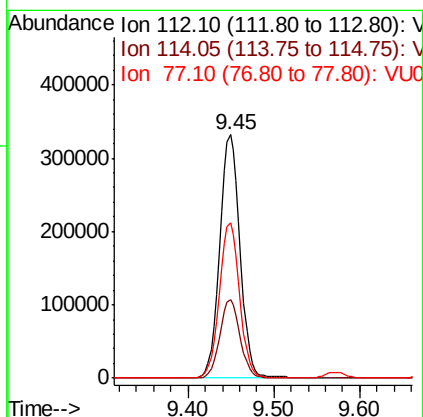
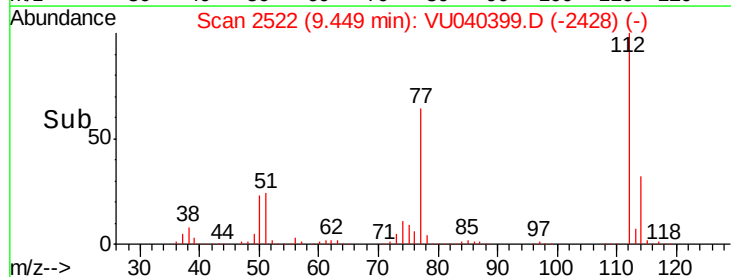
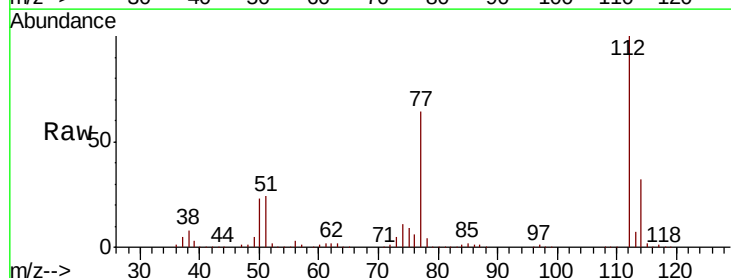
Instrument :
MSVOA_U
ClientSampleId :
BG4A2

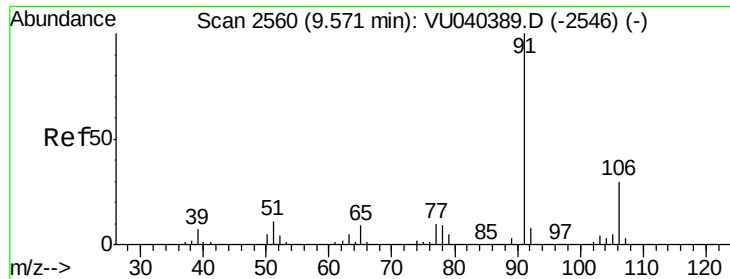
Tot Ion:	43	Resp:	18034
Ion	Ratio	Lower	Upper
43	100		
58	22.2	41.0	61.4#
57	22.3	14.6	22.0#
100	0.6	8.2	12.4#



#51
Chlorobenzene
Concen: 19.708 ug/L
RT: 9.45 min Scan# 2522
Delta R.T. 0.00 min
Lab File: VU040399.D
Acq: 30 Sep 2020 15:16

Tgt Ion:	112	Resp:	543651
Ion	Ratio	Lower	Upper
112	100		
114	32.3	22.0	40.8
77	63.6	49.5	74.3





#52

Ethylbenzene

Concen: 2.785 ug/L

RT: 9.57 min Scan# 2560

Delta R.T. 0.00 min

Lab File: VU040399.D

Acq: 30 Sep 2020 15:16

Instrument :

MSVOA_U

ClientSampleId :

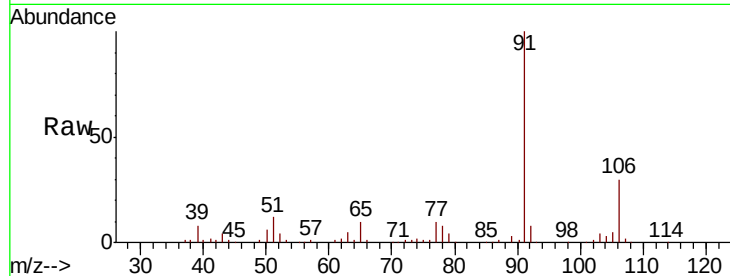
BG4A2

Tot Ion: 91 Resp: 128963

Ion Ratio Lower Upper

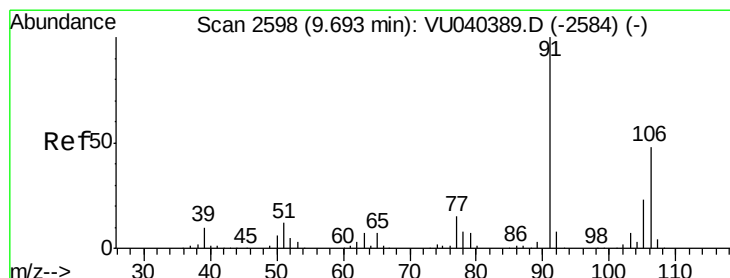
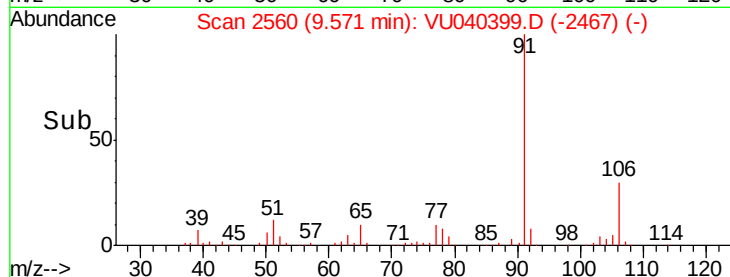
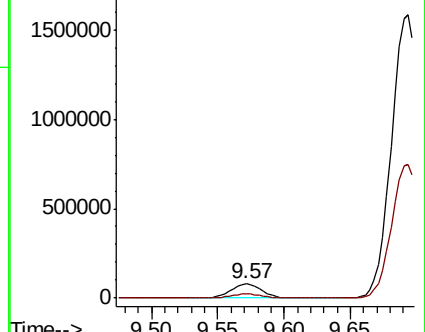
91 100

106 30.2 21.1 39.3



Abundance Ion 91.15 (90.85 to 91.85): VU040399.D (-2546) (-)

Ion 106.15 (105.85 to 106.85): VU040399.D (-2546) (-)



#53

m,p-Xylene

Concen: 68.930 ug/L

RT: 9.69 min Scan# 2598

Delta R.T. 0.00 min

Lab File: VU040399.D

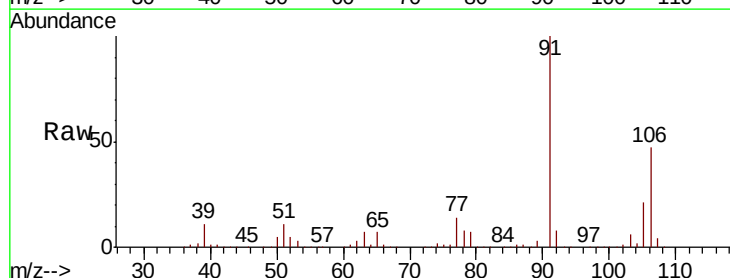
Acq: 30 Sep 2020 15:16

Tgt Ion: 106 Resp: 1188913

Ion Ratio Lower Upper

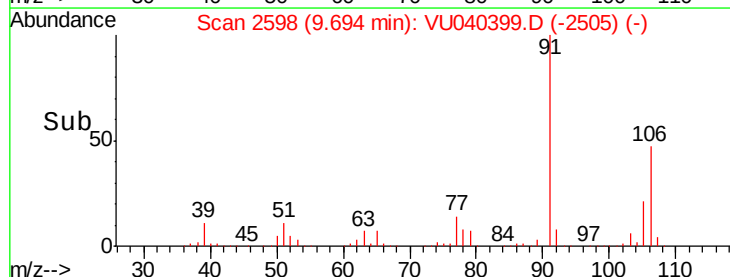
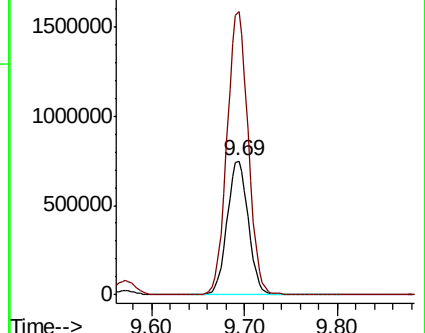
106 100

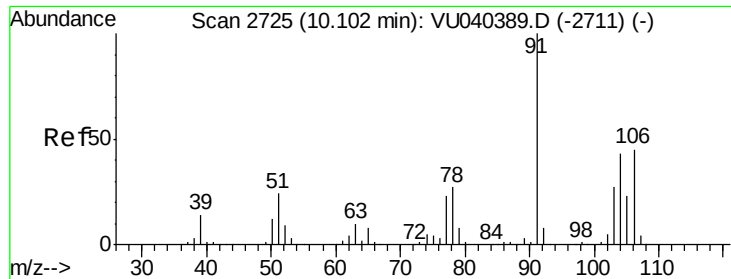
91 211.0 149.0 276.6



Abundance Ion 106.15 (105.85 to 106.85): VU040399.D (-2598) (-)

Ion 91.15 (90.85 to 91.85): VU040399.D (-2598) (-)

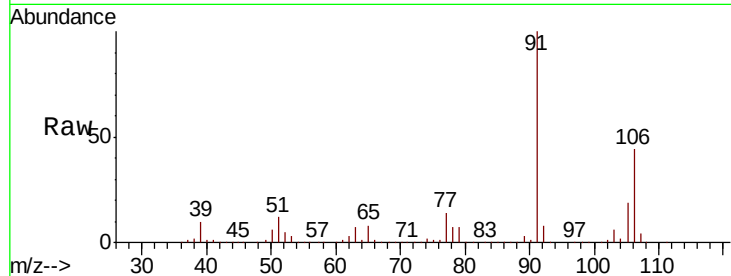




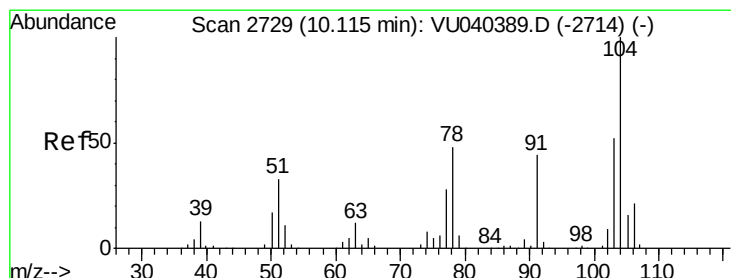
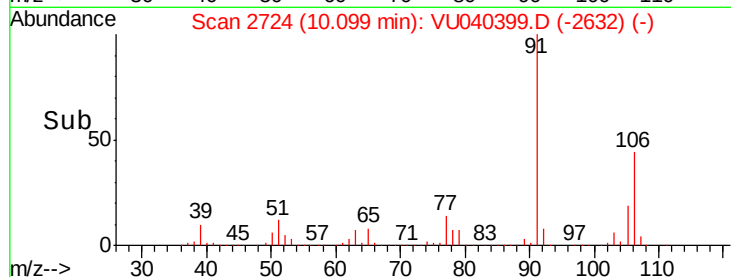
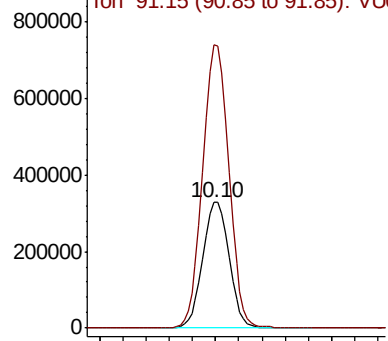
#54
o-Xylene
Concen: 31.708 ug/L
RT: 10.10 min Scan# 2724
Delta R.T. -0.00 min
Lab File: VU040399.D
Acq: 30 Sep 2020 15:16

Instrument :
MSVOA_U
ClientSampled :
BG4A2

Tot Ion:106 Resp: 514500
Ion Ratio Lower Upper
106 100
91 225.5 160.9 298.9

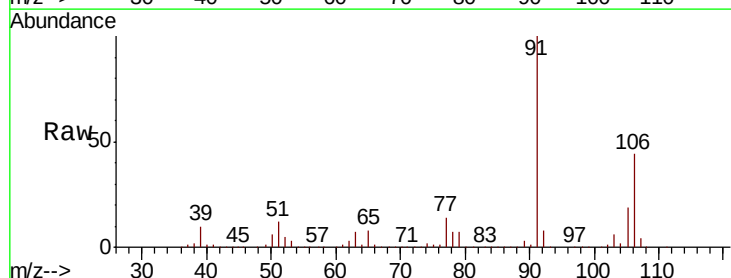


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

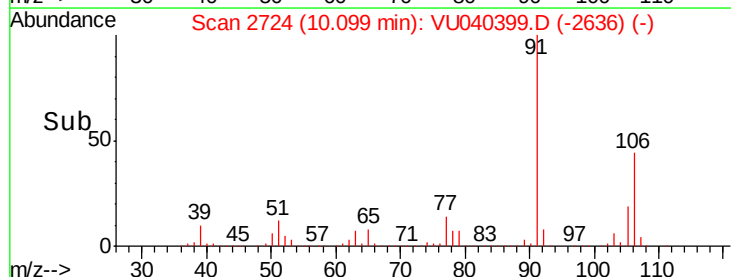
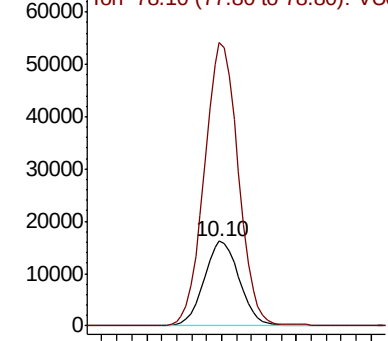


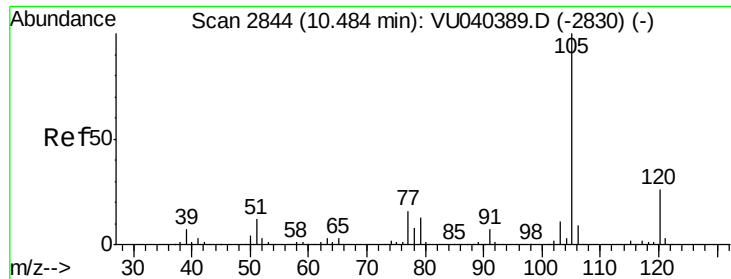
#55
Styrene
Concen: 0.942 ug/L
RT: 10.10 min Scan# 2724
Delta R.T. -0.02 min
Lab File: VU040399.D
Acq: 30 Sep 2020 15:16

Tgt Ion:104 Resp: 26666
Ion Ratio Lower Upper
104 100
78 334.6 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: 2.187 ug/L

RT: 10.48 min Scan# 2843

Delta R.T. -0.00 min

Lab File: VU040399.D

Acq: 30 Sep 2020 15:16

Instrument :

MSVOA_U

ClientSampled :

BG4A2

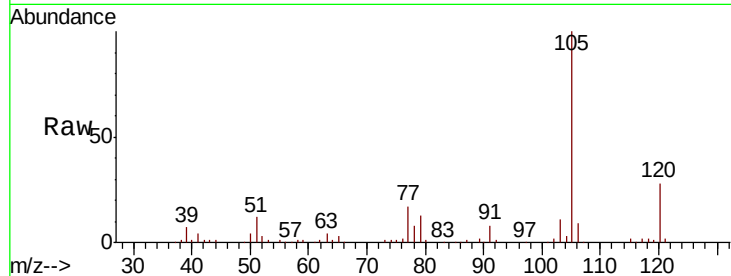
Tot Ion:105 Resp: 95744

Ion Ratio Lower Upper

105 100

120 26.4 20.6 30.8

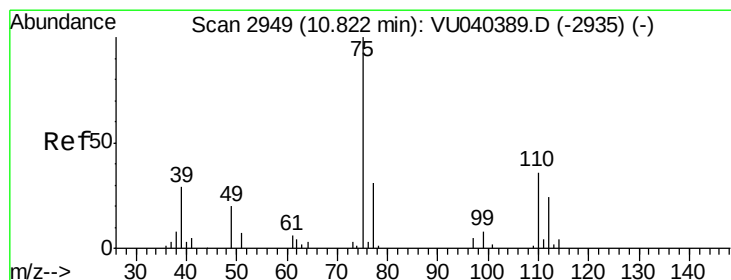
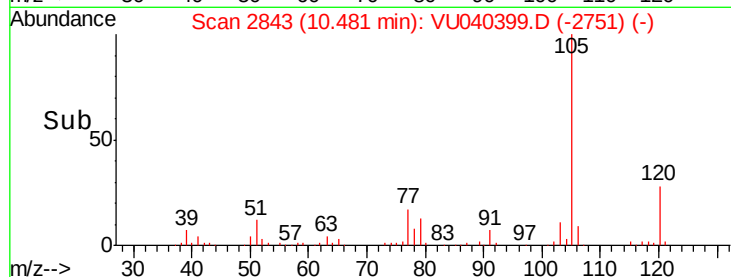
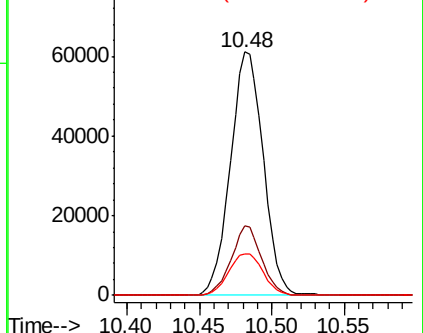
77 17.8 14.3 21.5



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): VU



#59

1,2,3-Trichloropropane

Concen: 0.294 ug/L

RT: 11.46 min Scan# 3148

Delta R.T. 0.64 min

Lab File: VU040399.D

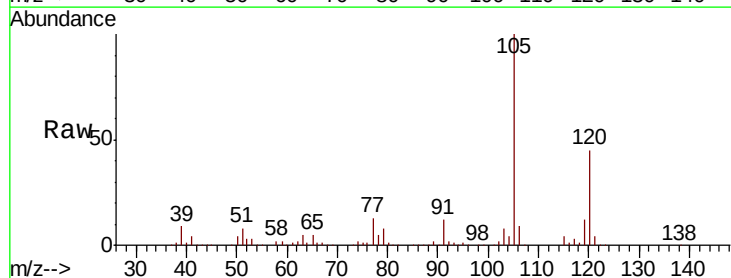
Acq: 30 Sep 2020 15:16

Tgt Ion: 75 Resp: 2466

Ion Ratio Lower Upper

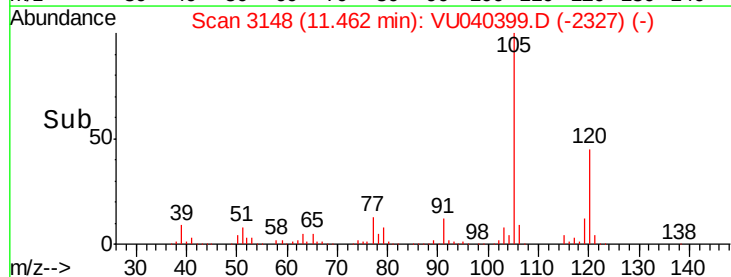
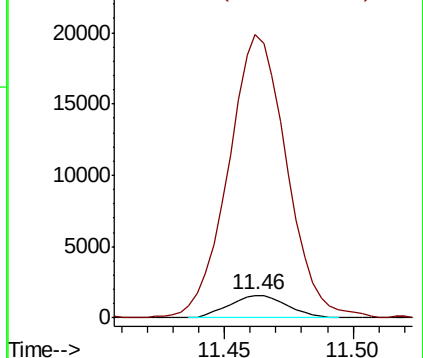
75 100

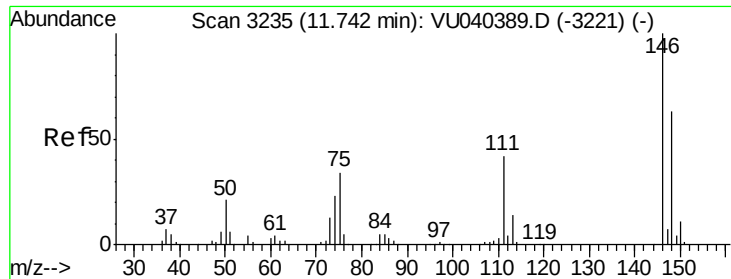
77 1270.8 25.7 38.5#



Abundance Ion 75.00 (74.70 to 75.70): VU

Ion 77.00 (76.70 to 77.70): VU





#62

1,3-Dichlorobenzene

Concen: 0.109 ug/L

RT: 11.74 min Scan# 3235

Delta R.T. 0.00 min

Lab File: VU040399.D

Acq: 30 Sep 2020 15:16

Instrument :

MSVOA_U

ClientSampled :

BG4A2

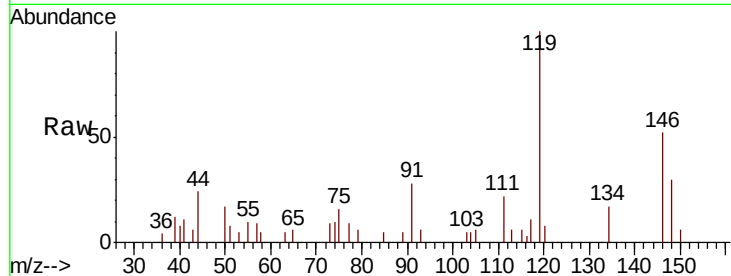
Tot Ion:146 Resp: 2394

Ion Ratio Lower Upper

146 100

111 41.8 28.6 53.0

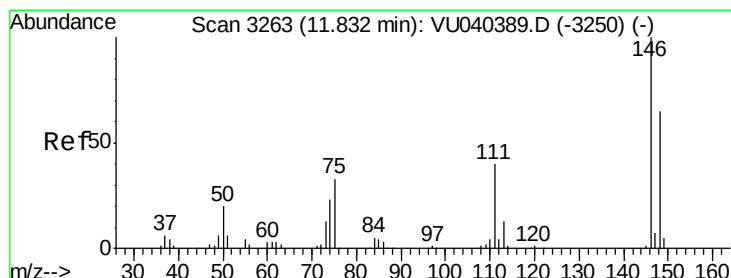
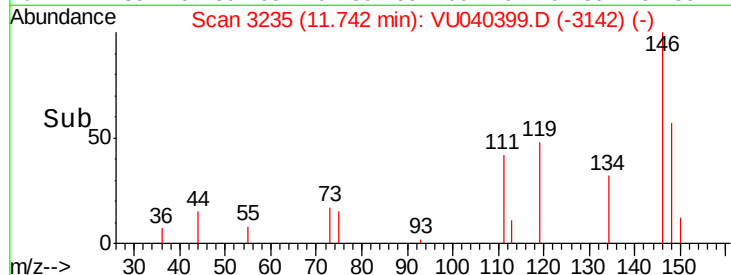
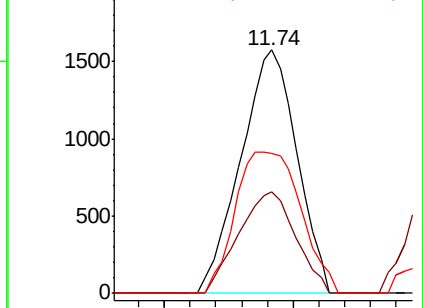
148 57.4 43.4 80.6



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



#63

1,4-Dichlorobenzene

Concen: 1.290 ug/L

RT: 11.83 min Scan# 3263

Delta R.T. 0.00 min

Lab File: VU040399.D

Acq: 30 Sep 2020 15:16

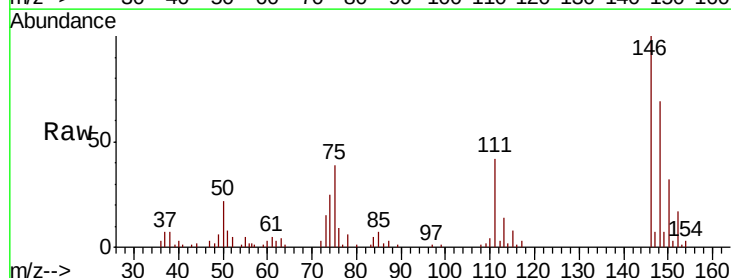
Tgt Ion:146 Resp: 29528

Ion Ratio Lower Upper

146 100

111 42.4 29.2 54.2

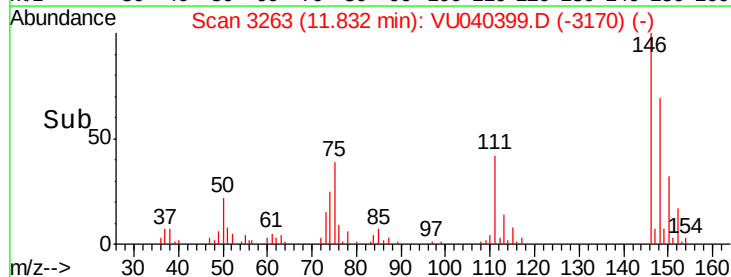
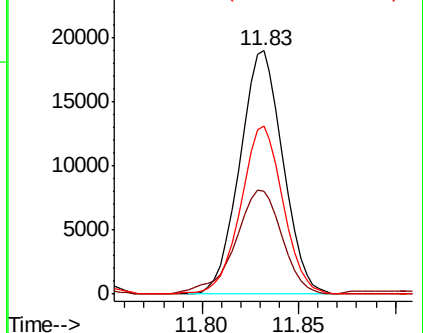
148 68.8 44.4 82.4

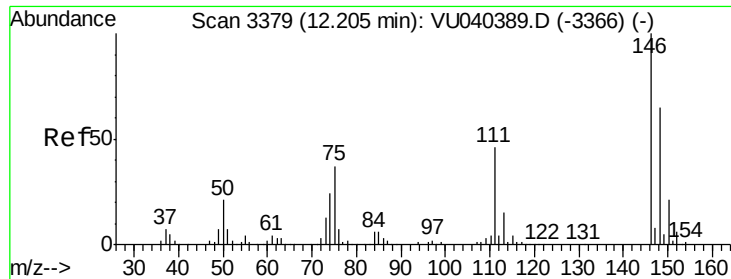


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

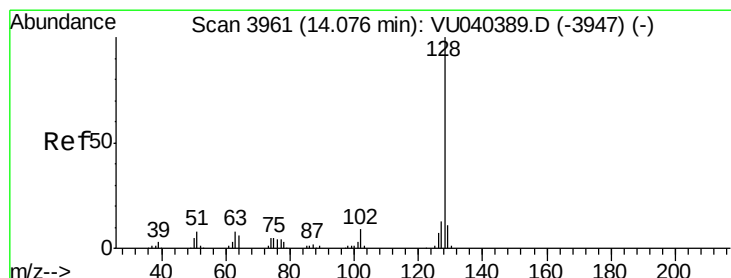
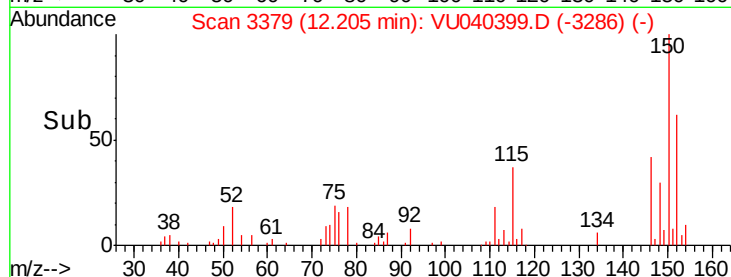
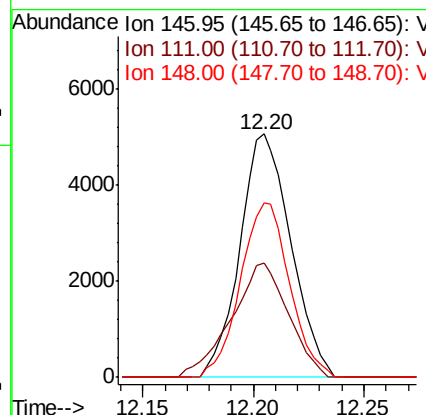
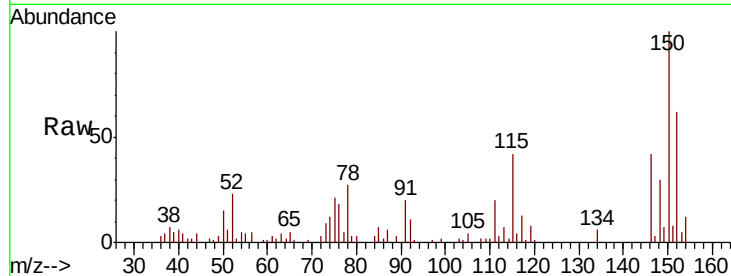




#65
 1,2-Dichlorobenzene
 Concen: 0.379 ug/L
 RT: 12.20 min Scan# 3379
 Delta R.T. 0.00 min
 Lab File: VU040399.D
 Acq: 30 Sep 2020 15:16

Instrument :
 MSVOA_U
 ClientSampleId :
 BG4A2

Tot Ion:146 Resp: 8103
 Ion Ratio Lower Upper
 146 100
 111 47.2 35.6 53.4
 148 71.5 49.8 74.6



#69
 Naphthalene
 Concen: 1.289 ug/L
 RT: 14.08 min Scan# 3961
 Delta R.T. 0.00 min
 Lab File: VU040399.D
 Acq: 30 Sep 2020 15:16

Tgt Ion:128 Resp: 27812
 Ion Ratio Lower Upper
 128 100
 129 11.4 8.2 12.4
 127 13.9 10.2 15.4

