

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU071020\
 Data File : VU039429.D
 Acq On : 10 Jul 2020 14:57
 Operator : SY/MD
 Sample : L3261-07DL 100X
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jul 11 02:51:57 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR070720WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat Jul 11 02:49:36 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.27	114	101229	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	93944	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	44873	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	22109	3.77	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	75.40%
7) Chloroethane-d5	1.93	69	29019	4.84	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	96.80%
11) 1,1-Dichloroethene-d2	2.58	63	36235	3.14	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	62.80%
20) 2-Butanone-d5	4.66	46	149773	55.79	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	111.58%
24) Chloroform-d	5.09	84	60388	4.83	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	96.60%
26) 1,2-Dichloroethane-d4	5.72	65	40357	5.15	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	103.00%
32) Benzene-d6	5.74	84	115376	5.10	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	102.00%
36) 1,2-Dichloropropane-d6	6.70	67	41153	5.18	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	103.60%
41) Toluene-d8	7.91	98	98427	5.02	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	100.40%
43) trans-1,3-Dichloropropene-	8.19	79	16637	4.74	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	94.80%
46) 2-Hexanone-d5	8.64	63	111744	53.69	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	107.38%
57) 1,1,2,2-Tetrachloroethane-	10.76	84	39175	4.97	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	99.40%
64) 1,2-Dichlorobenzene-d4	12.19	152	40043	5.00	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	100.00%

Target Compounds

					Ovalue
8) Chloroethane	1.94	64	1901	0.319 ug/L	94
16) Methylene chloride	3.06	84	909	0.120 ug/L	90
22) cis-1,2-Dichloroethene	4.68	96	1114	0.149 ug/L	99
25) Chloroform	5.11	83	2562	0.195 ug/L	95
27) 1,2-Dichloroethane	5.79	62	1692	0.178 ug/L #	78
33) Benzene	5.79	78	165786	5.903 ug/L	100
34) Trichloroethene	6.27	95	1655	0.228 ug/L #	7
35) Methylcyclohexane	6.70	83	9257	0.796 ug/L #	18
37) 1,2-Dichloropropane	6.70	63	4760	0.622 ug/L #	91
39) cis-1,3-Dichloropropene	7.58	75	1456	0.126 ug/L	87
42) Toluene	7.98	91	270558	8.996 ug/L	99
51) Chlorobenzene	9.45	112	23080	1.256 ug/L	97
52) Ethylbenzene	9.57	91	39071	1.175 ug/L	99
53) m,p-Xylene	9.69	106	35322	2.820 ug/L	93
54) o-Xylene	10.10	106	10995	0.902 ug/L	92
56) Isopropylbenzene	10.49	105	6616	0.201 ug/L	98
59) 1,2,3-Trichloropropane	11.81	75	7714	1.367 ug/L	98

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Quant Title : TRACE VOA SOM01.0
QLast Update : Sat Jul 11 02:49:36 2020
Response via : Initial Calibration

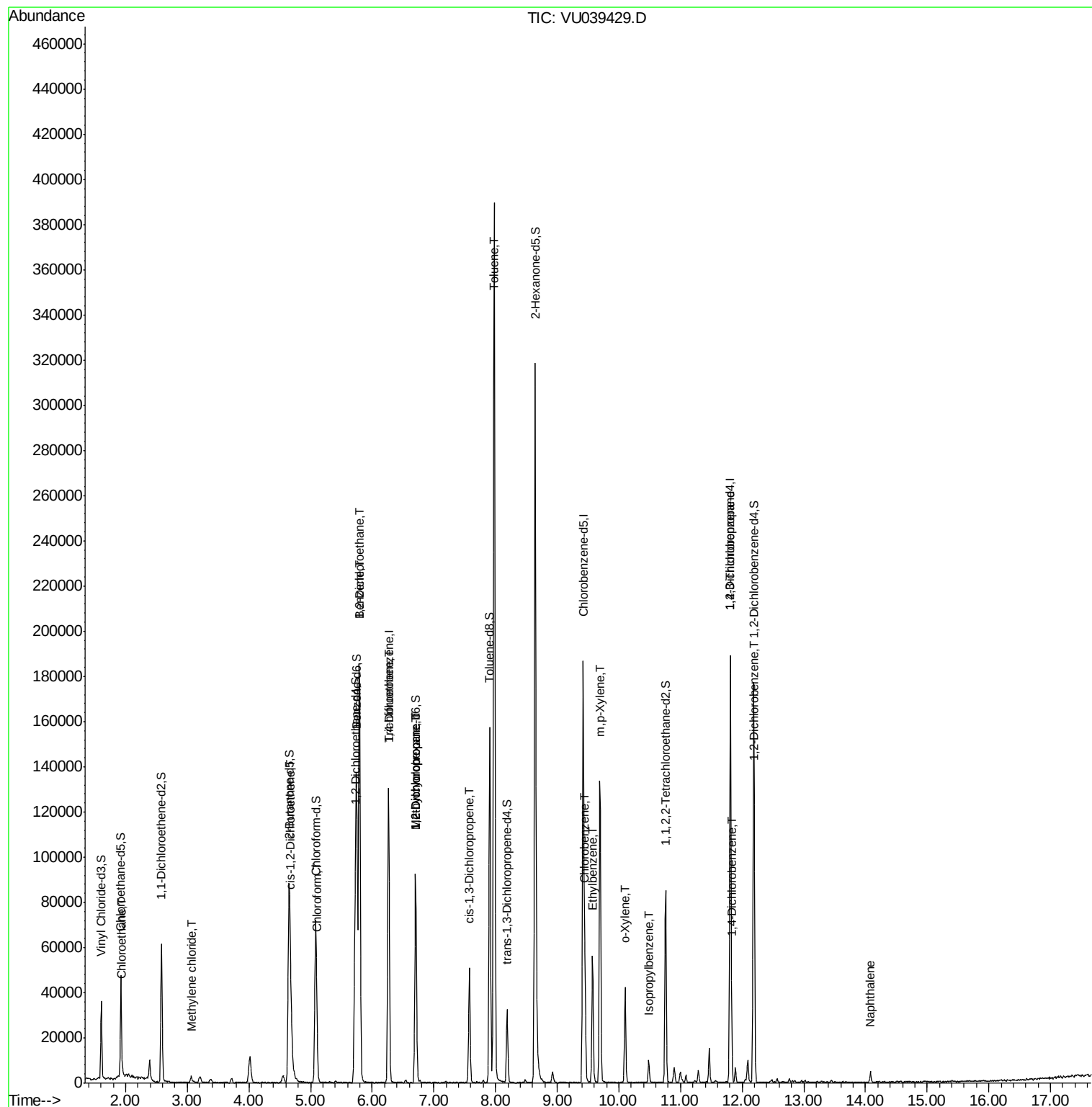
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
63) 1,4-Dichlorobenzene	11.84	146	1252	0.089	ug/L	90
65) 1,2-Dichlorobenzene	12.21	146	1674	0.119	ug/L	91
69) Naphthalene	14.08	128	3649	0.201	ug/L	97

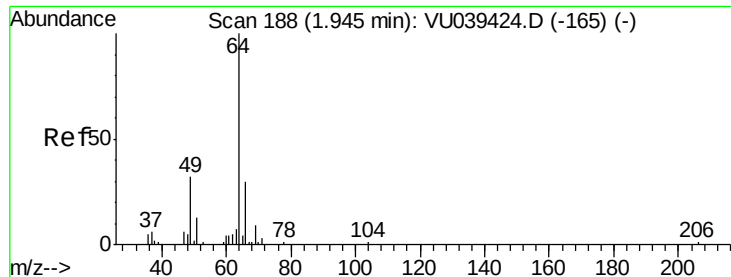
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#8

Chloroethane

Concen: 0.319 ug/L

RT: 1.94 min Scan# 188

Delta R.T. -0.00 min

Lab File: VU039429.D

Acq: 10 Jul 2020 14:57

Instrument :

MSVOA_U

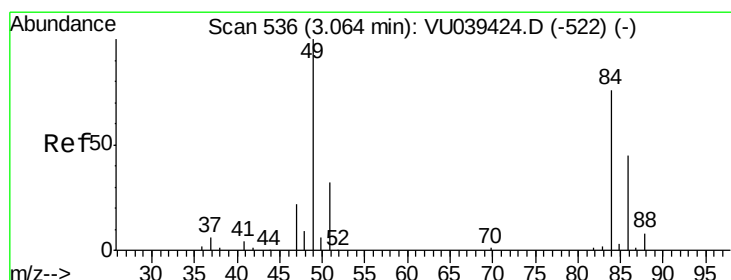
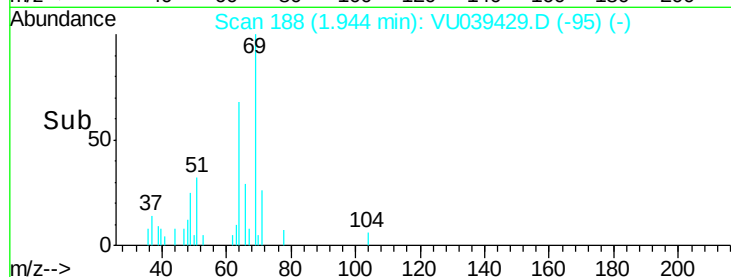
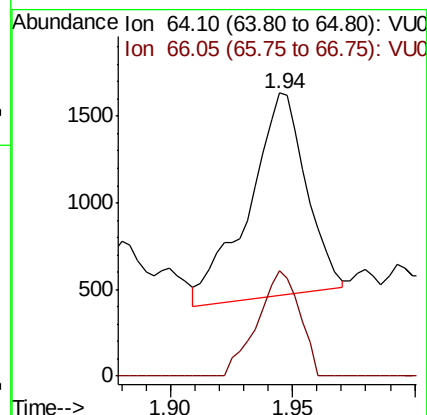
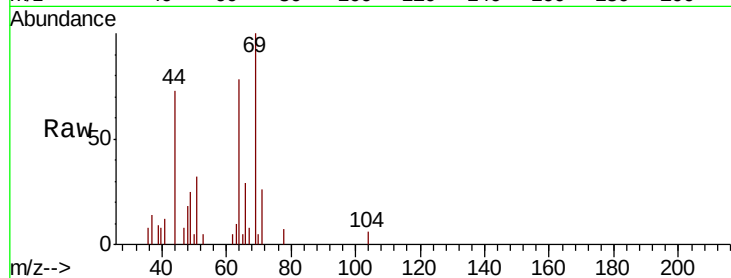
ClientSampleId :

Tot Ion: 64 Resp: 1901

Ion Ratio Lower Upper

64 100

66 37.1 23.5 43.7



#16

Methylene chloride

Concen: 0.120 ug/L

RT: 3.06 min Scan# 536

Delta R.T. -0.00 min

Lab File: VU039429.D

Acq: 10 Jul 2020 14:57

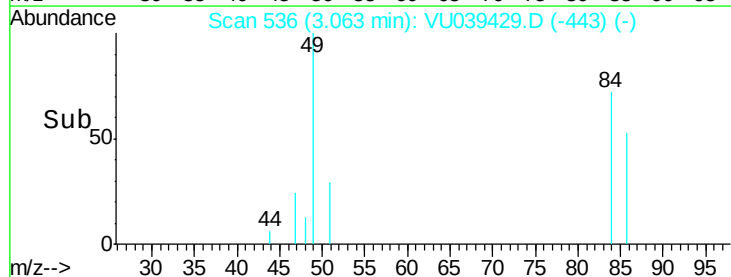
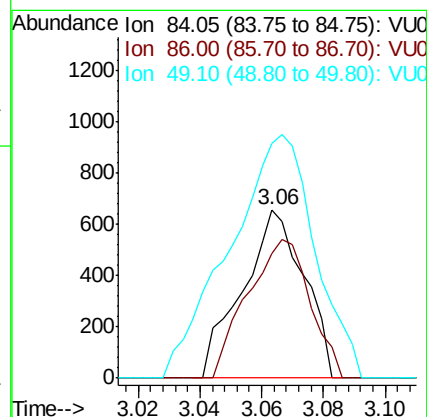
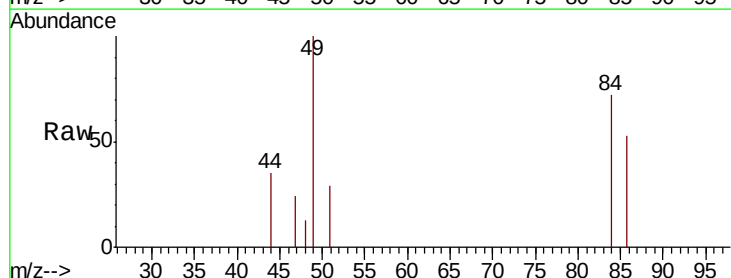
Tgt Ion: 84 Resp: 909

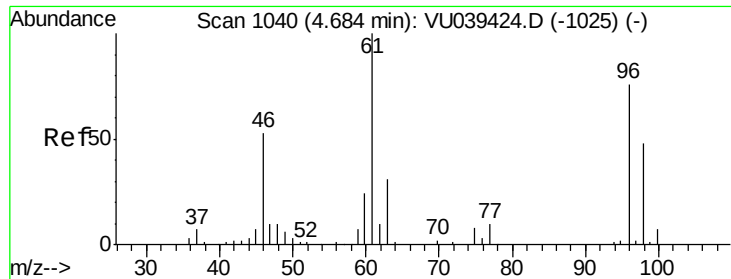
Ion Ratio Lower Upper

84 100

86 73.7 43.5 80.9

49 139.3 91.1 169.1

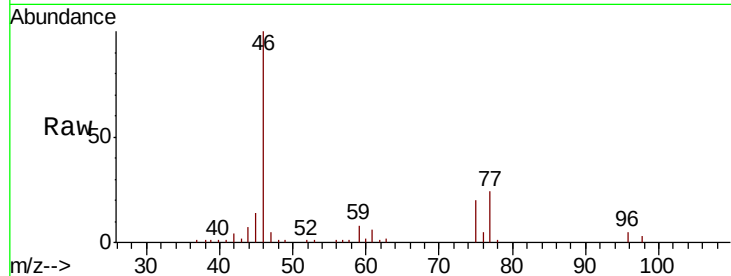




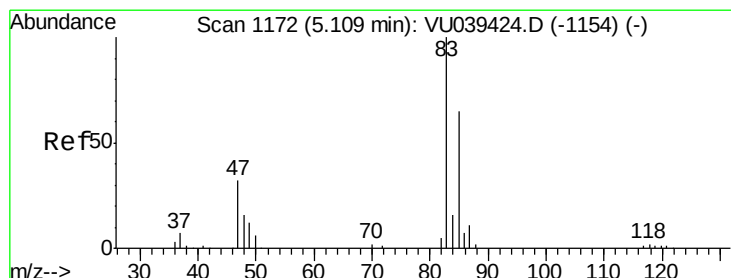
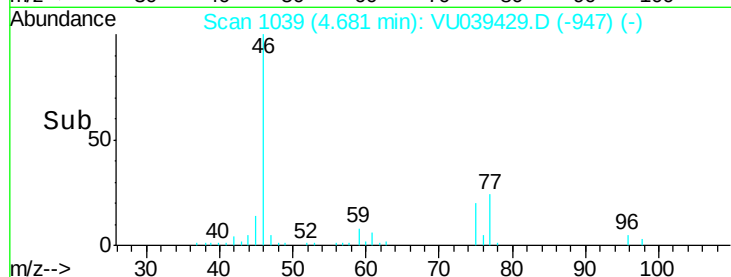
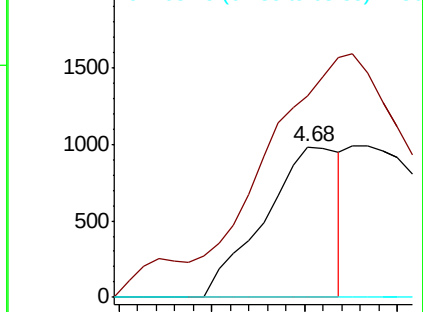
#22
 cis-1,2-Dichloroethene
 Concen: 0.149 ug/L
 RT: 4.68 min Scan# 1039
 Delta R.T. -0.00 min
 Lab File: VU039429.D
 Acq: 10 Jul 2020 14:57

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 96 Resp: 1114
 Ion Ratio Lower Upper
 96 100
 61 133.7 92.8 172.4
 68 0.0 0.0 0.0

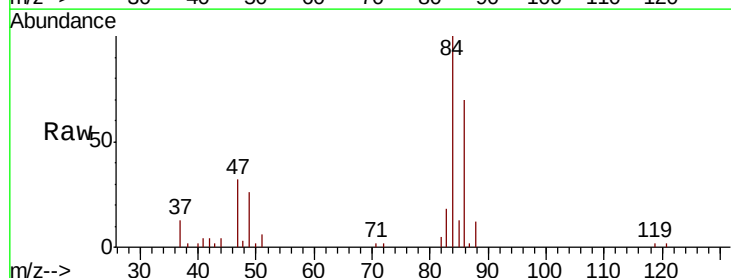


Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 68.15 (67.85 to 68.85): VU0

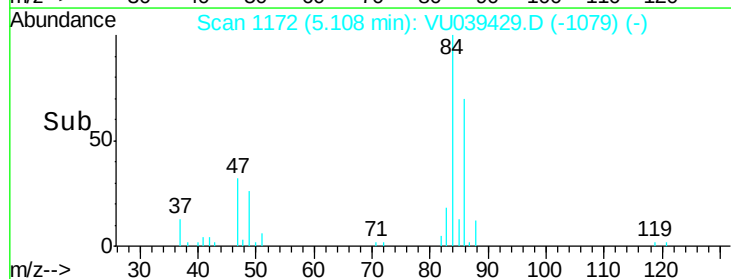
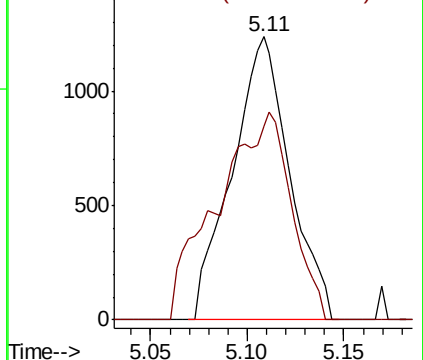


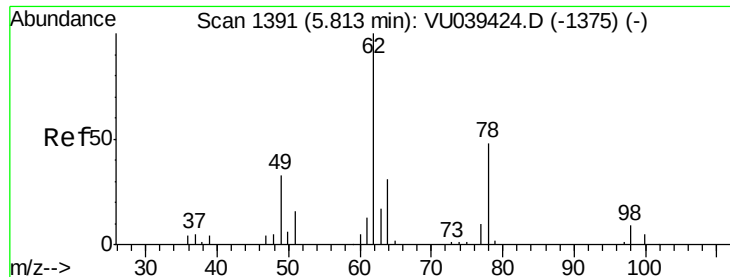
#25
 Chloroform
 Concen: 0.195 ug/L
 RT: 5.11 min Scan# 1172
 Delta R.T. -0.00 min
 Lab File: VU039429.D
 Acq: 10 Jul 2020 14:57

Tgt Ion: 83 Resp: 2562
 Ion Ratio Lower Upper
 83 100
 85 68.2 44.9 83.5



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

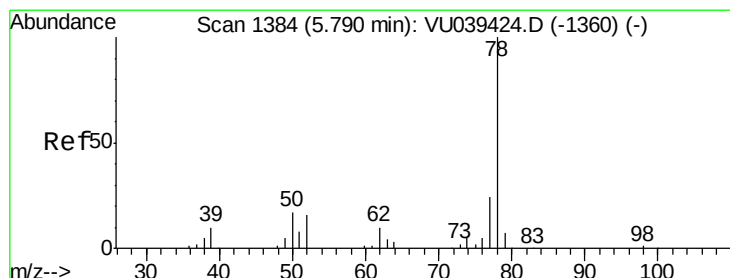
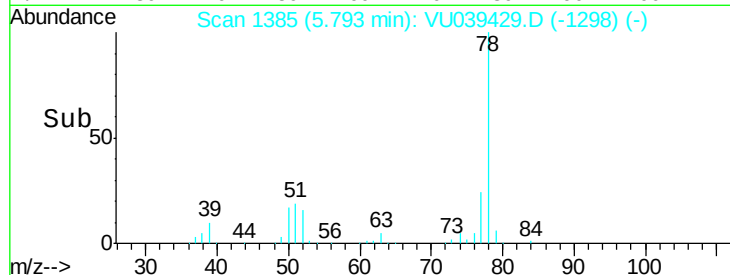
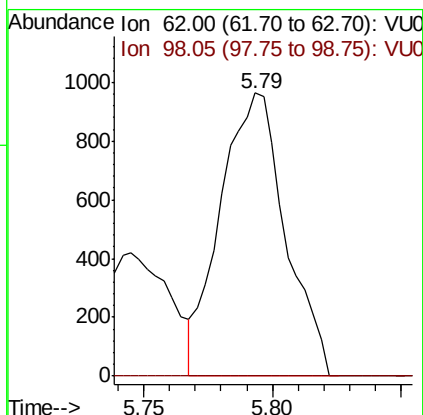
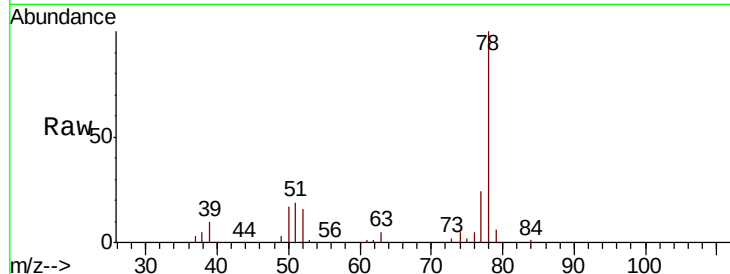




#27
 1,2-Dichloroethane
 Concen: 0.178 ug/L
 RT: 5.79 min Scan# 1385
 Delta R.T. -0.02 min
 Lab File: VU039429.D
 Acq: 10 Jul 2020 14:57

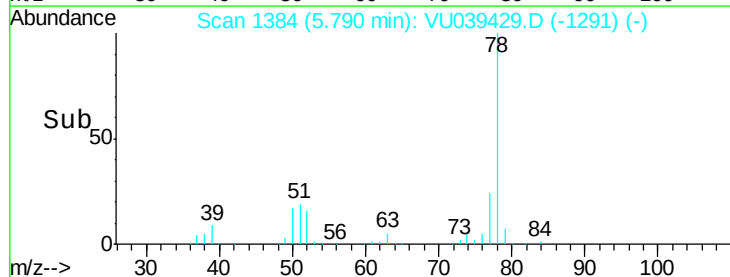
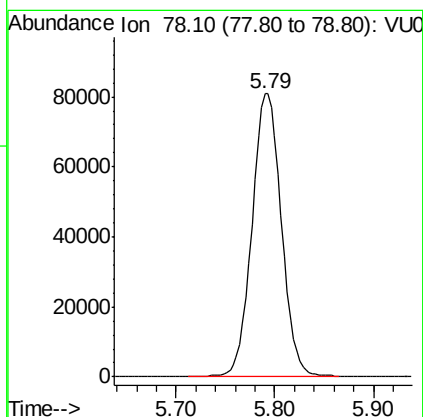
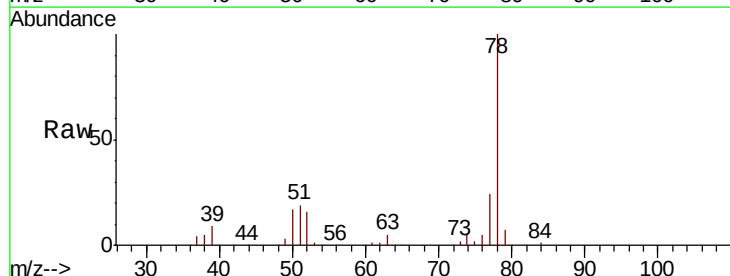
Instrument :
 MSVOA_U
 ClientSampled :

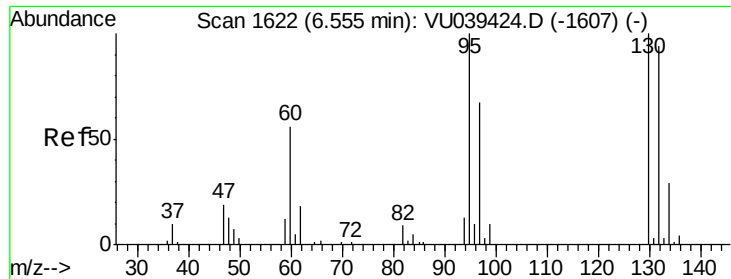
Tot Ion: 62 Resp: 1692
 Ion Ratio Lower Upper
 62 100
 98 0.0 6.3 9.5#



#33
 Benzene
 Concen: 5.903 ug/L
 RT: 5.79 min Scan# 1384
 Delta R.T. -0.00 min
 Lab File: VU039429.D
 Acq: 10 Jul 2020 14:57

Tgt Ion: 78 Resp: 165786





#34

Trichloroethene

Concen: 0.228 ug/L

RT: 6.27 min Scan# 1533

Delta R.T. -0.29 min

Lab File: VU039429.D

Acq: 10 Jul 2020 14:57

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 95 Resp: 1655

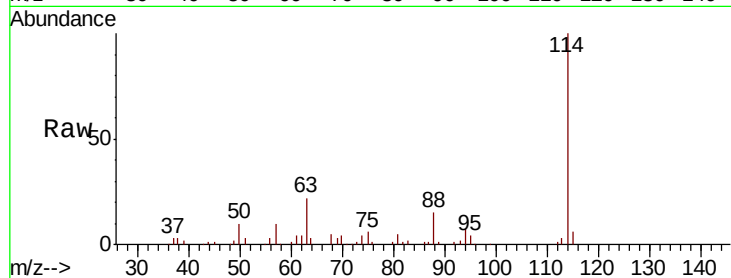
Ion Ratio Lower Upper

95 100

97 0.0 46.3 85.9#

132 0.0 64.0 118.8#

130 0.0 64.3 119.5#

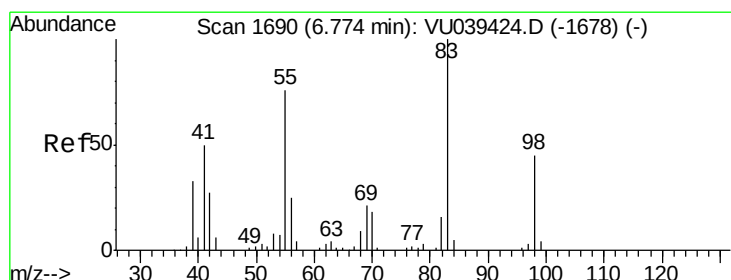
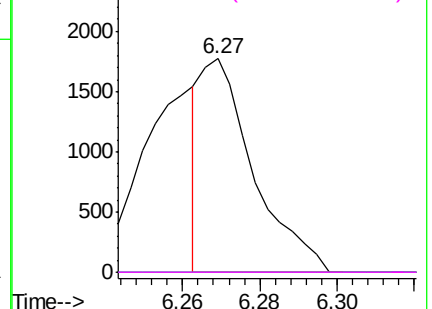
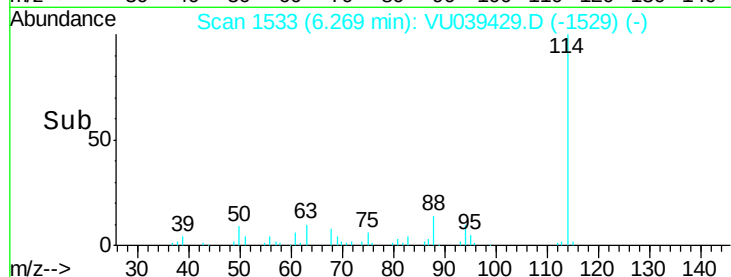


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 0.796 ug/L

RT: 6.70 min Scan# 1668

Delta R.T. -0.07 min

Lab File: VU039429.D

Acq: 10 Jul 2020 14:57

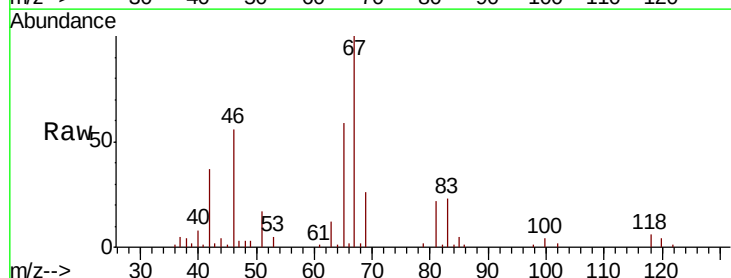
Tgt Ion: 83 Resp: 9257

Ion Ratio Lower Upper

83 100

55 0.2 62.1 93.1#

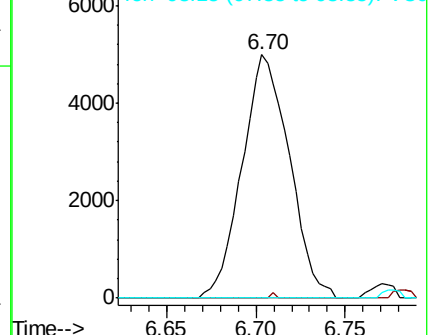
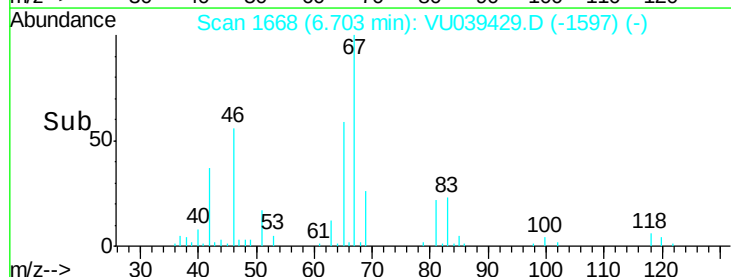
98 0.2 35.9 53.9#

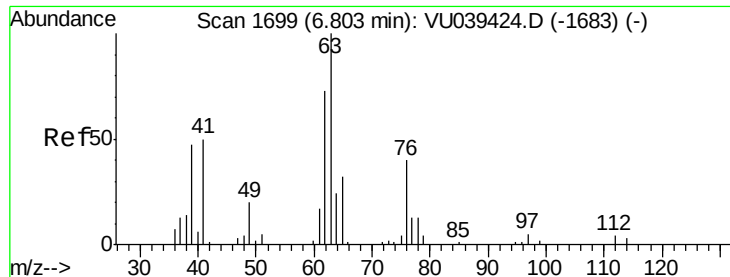


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

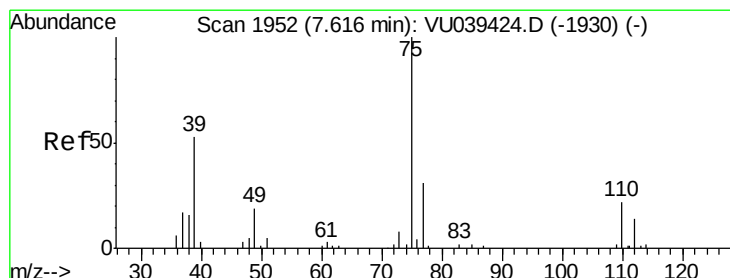
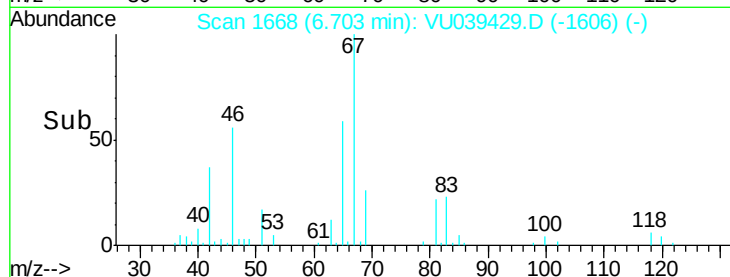
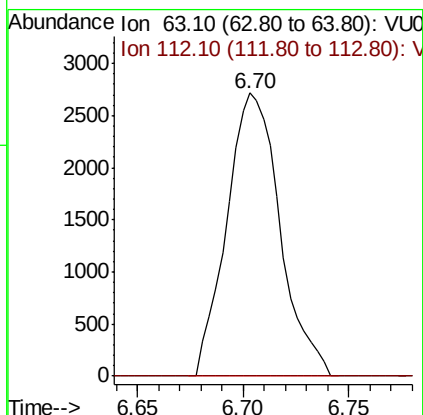
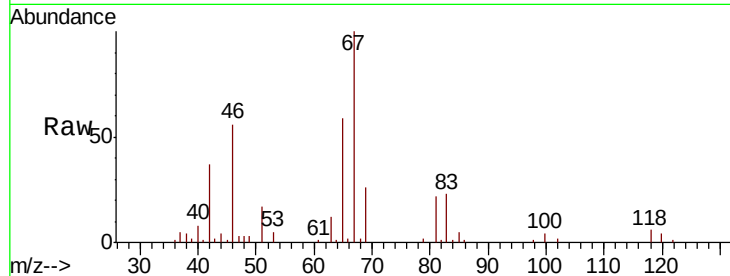




#37
 1,2-Dichloropropane
 Concen: 0.622 ug/L
 RT: 6.70 min Scan# 1668
 Delta R.T. -0.10 min
 Lab File: VU039429.D
 Acq: 10 Jul 2020 14:57

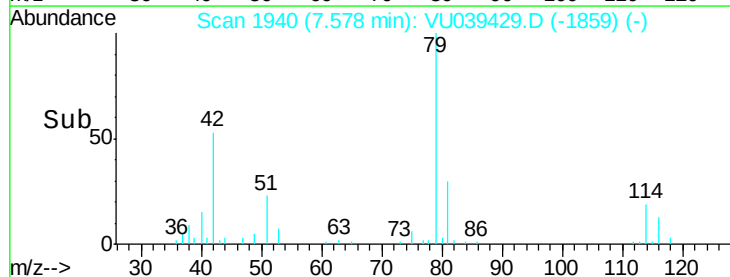
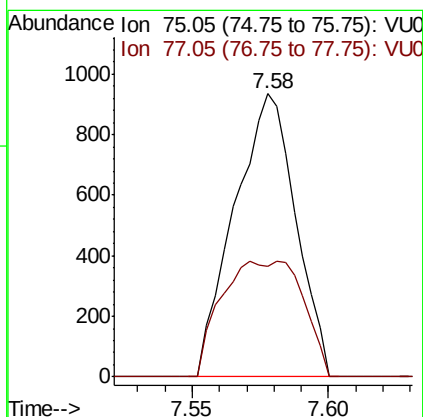
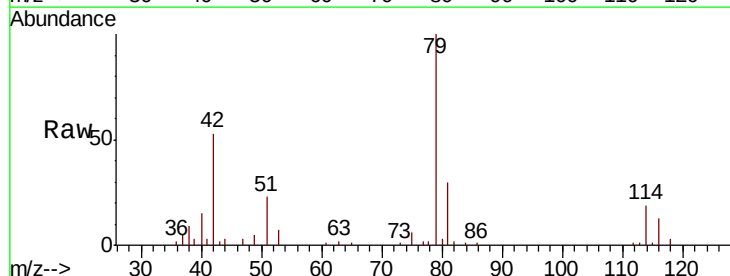
Instrument :
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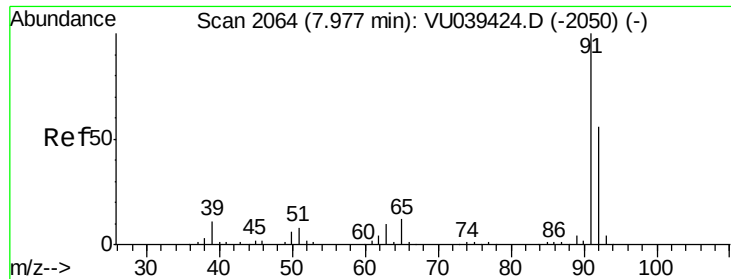
Tot Ion: 63 Resp: 4760
 Ion Ratio Lower Upper
 63 100
 112 0.0 2.5 3.7#



#39
 cis-1,3-Dichloropropene
 Concen: 0.126 ug/L
 RT: 7.58 min Scan# 1940
 Delta R.T. -0.04 min
 Lab File: VU039429.D
 Acq: 10 Jul 2020 14:57

Tgt Ion: 75 Resp: 1456
 Ion Ratio Lower Upper
 75 100
 77 38.9 22.3 41.3





#42

Toluene

Concen: 8.996 ug/L

RT: 7.98 min Scan# 2065

Delta R.T. 0.00 min

Lab File: VU039429.D

Acq: 10 Jul 2020 14:57

Instrument :

MSVOA_U

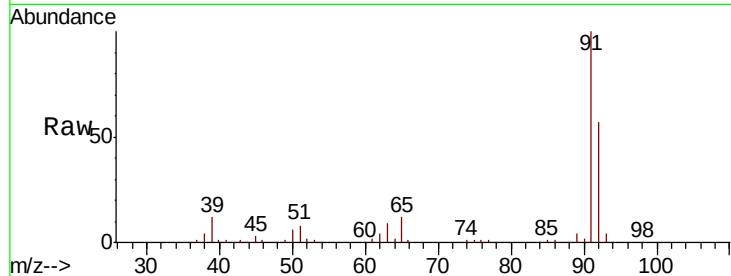
ClientSampleId :

Tot Ion: 91 Resp: 270558

Ion Ratio Lower Upper

91 100

92 57.2 39.3 73.1



Abundance Ion 91.15 (90.85 to 91.85): VU039429.D (-1971) (-)

Ion 92.15 (91.85 to 92.85): VU039429.D (-1971) (-)

7.98

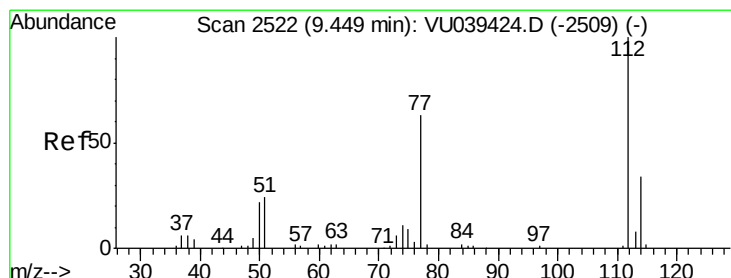
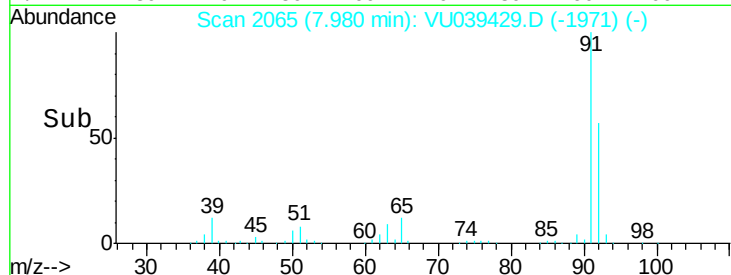
150000

100000

50000

0

Time-->



#51

Chlorobenzene

Concen: 1.256 ug/L

RT: 9.45 min Scan# 2523

Delta R.T. 0.00 min

Lab File: VU039429.D

Acq: 10 Jul 2020 14:57

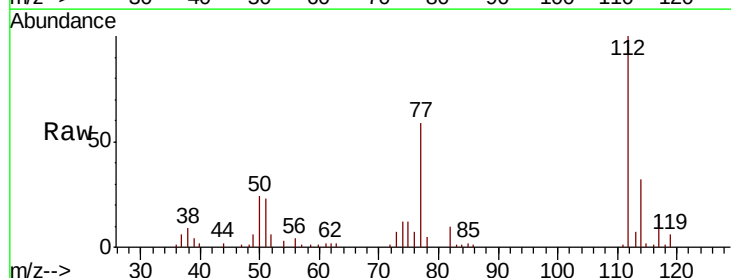
Tgt Ion: 112 Resp: 23080

Ion Ratio Lower Upper

112 100

114 32.3 22.1 41.1

77 58.9 49.9 74.9



Abundance Ion 112.10 (111.80 to 112.80): VU039429.D (-2429) (-)

Ion 114.05 (113.75 to 114.75): VU039429.D (-2429) (-)

Ion 77.10 (76.80 to 77.80): VU039429.D (-2429) (-)

9.45

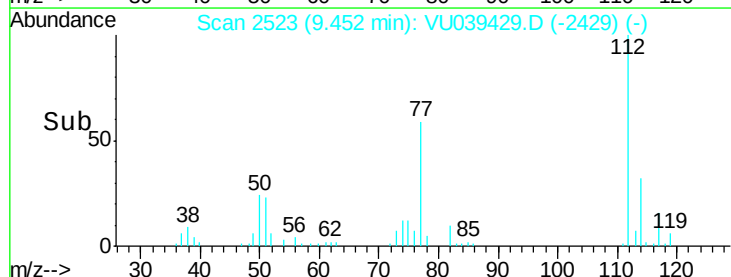
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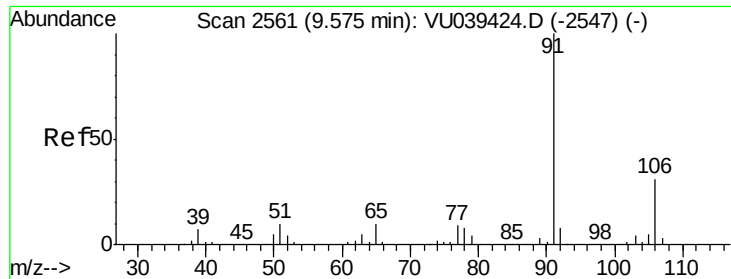
10000

5000

0

Time-->





#52

Ethylbenzene

Concen: 1.175 ug/L

RT: 9.57 min Scan# 2561

Delta R.T. -0.00 min

Lab File: VU039429.D

Acq: 10 Jul 2020 14:57

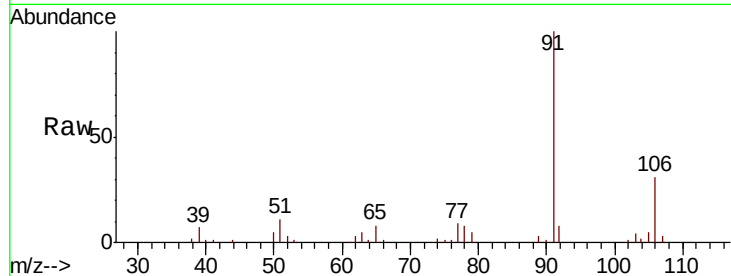
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 91 Resp: 39071

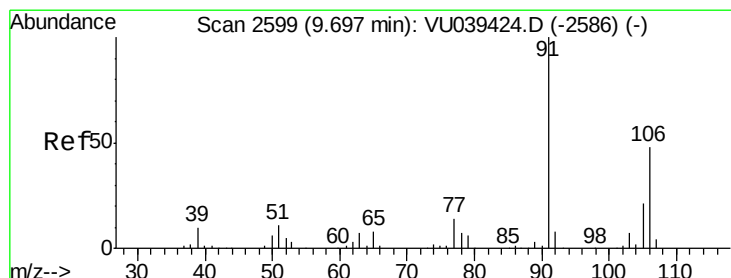
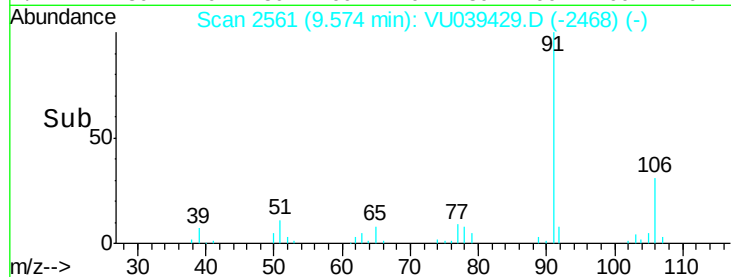
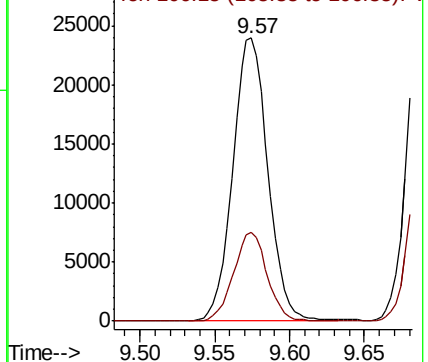
Ion Ratio Lower Upper

91 100

106 31.2 21.3 39.6



Abundance Ion 91.15 (90.85 to 91.85): VU039429.D (-2547) (-)



#53

m,p-Xylene

Concen: 2.820 ug/L

RT: 9.69 min Scan# 2598

Delta R.T. -0.00 min

Lab File: VU039429.D

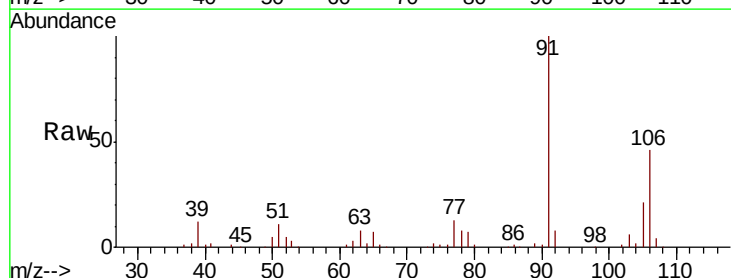
Acq: 10 Jul 2020 14:57

Tgt Ion: 106 Resp: 35322

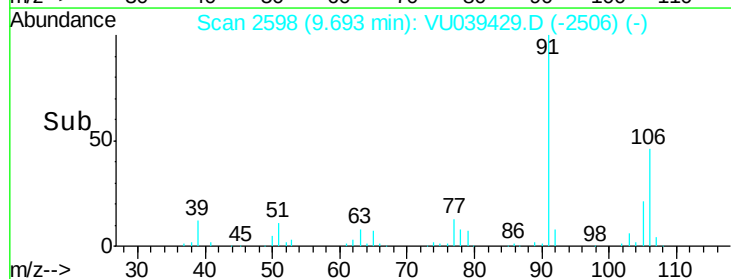
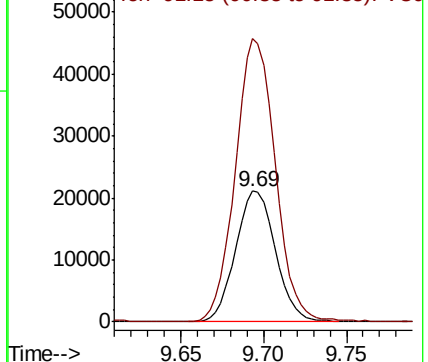
Ion Ratio Lower Upper

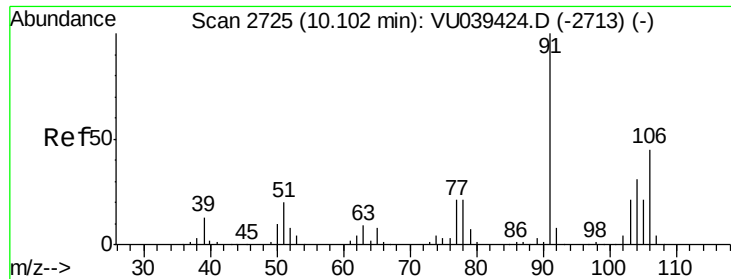
106 100

91 216.5 144.0 267.4



Abundance Ion 106.15 (105.85 to 106.85): VU039429.D (-2598) (-)

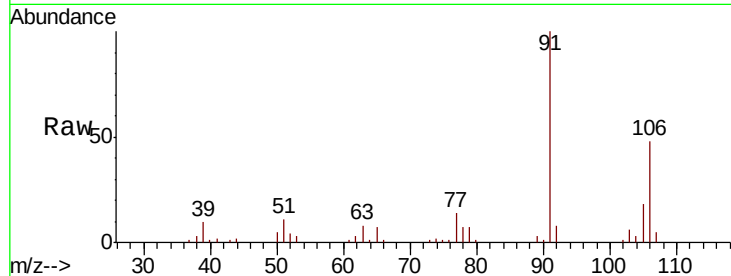




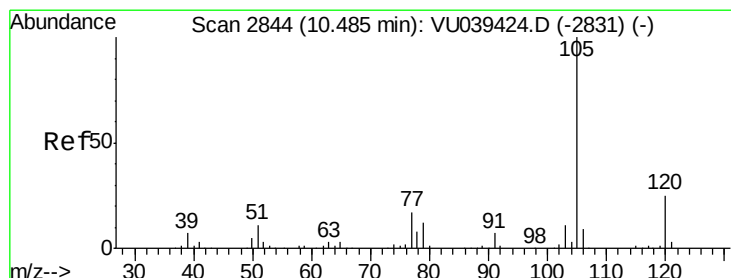
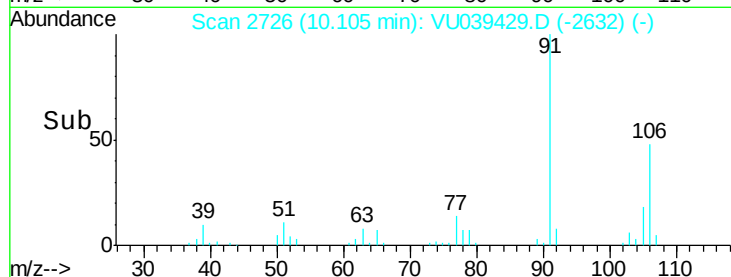
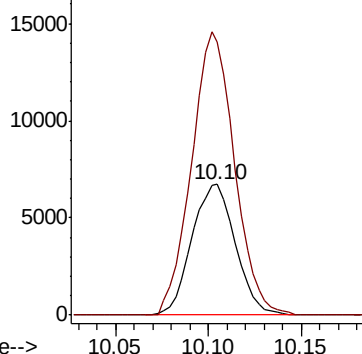
#54
o-Xylene
Concen: 0.902 ug/L
RT: 10.10 min Scan# 2726
Delta R.T. 0.00 min
Lab File: VU039429.D
Acq: 10 Jul 2020 14:57

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:106 Resp: 10995
Ion Ratio Lower Upper
106 100
91 208.6 154.6 287.2

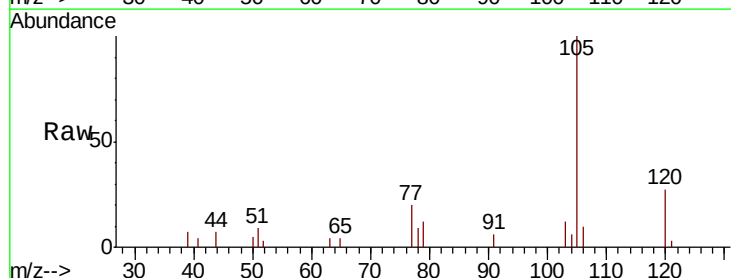


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

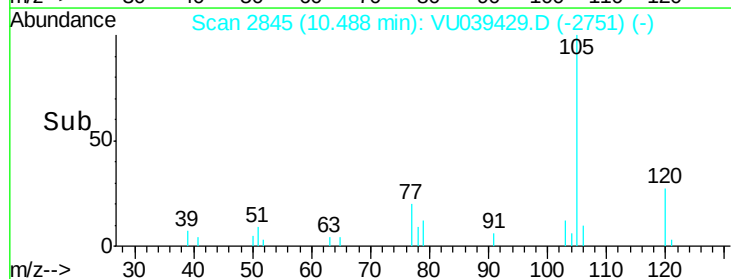
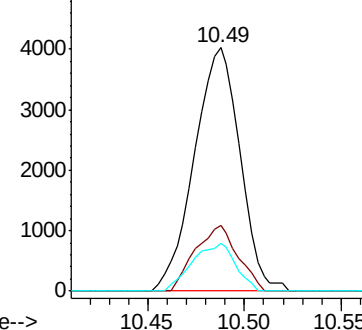


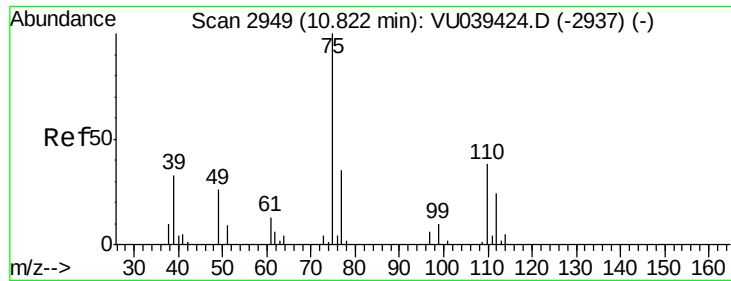
#56
Isopropylbenzene
Concen: 0.201 ug/L
RT: 10.49 min Scan# 2845
Delta R.T. 0.00 min
Lab File: VU039429.D
Acq: 10 Jul 2020 14:57

Tgt Ion:105 Resp: 6616
Ion Ratio Lower Upper
105 100
120 25.1 20.7 31.1
77 18.6 13.9 20.9



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: 1.367 ug/L

RT: 11.81 min Scan# 3257

Delta R.T. 0.99 min

Lab File: VU039429.D

Acq: 10 Jul 2020 14:57

Instrument :

MSVOA_U

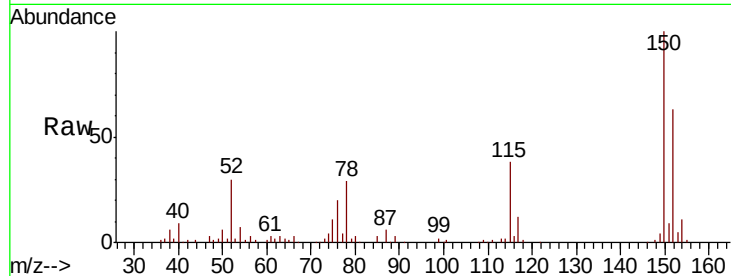
ClientSampleId :

Tot Ion: 75 Resp: 7714

Ion Ratio Lower Upper

75 100

77 34.6 26.8 40.2



Abundance Ion 75.00 (74.70 to 75.70): VU039429.D (-3257) (-)

Ion 77.00 (76.70 to 77.70): VU039429.D (-3257) (-)

11.81

4000

3000

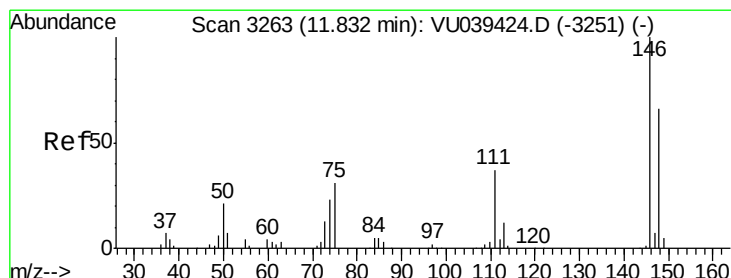
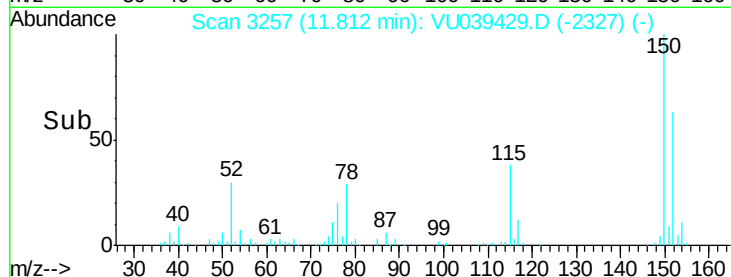
2000

1000

0

11.75 11.80 11.85

Time-->



#63

1,4-Dichlorobenzene

Concen: 0.089 ug/L

RT: 11.84 min Scan# 3265

Delta R.T. 0.01 min

Lab File: VU039429.D

Acq: 10 Jul 2020 14:57

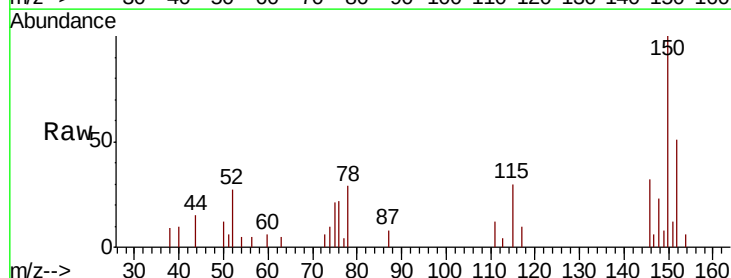
Tgt Ion: 146 Resp: 1252

Ion Ratio Lower Upper

146 100

111 36.3 28.6 53.0

148 73.1 45.0 83.6



Abundance Ion 145.95 (145.65 to 146.65): VU039429.D (-3265) (-)

Ion 111.00 (110.70 to 111.70): VU039429.D (-3265) (-)

Ion 148.00 (147.70 to 148.70): VU039429.D (-3265) (-)

11.84

1000

800

600

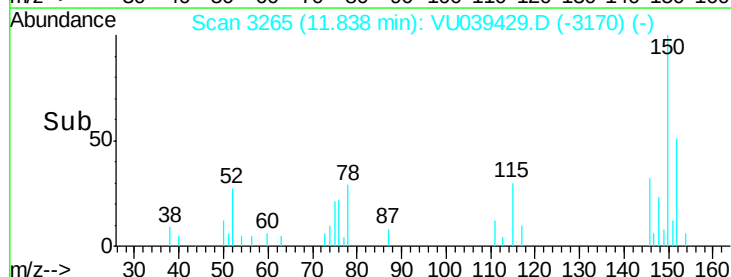
400

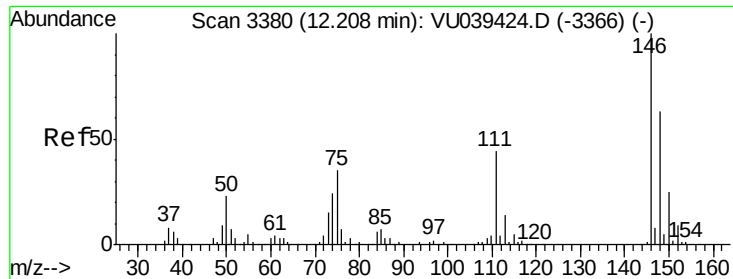
200

0

11.80 11.85

Time-->





#65

1,2-Dichlorobenzene

Concen: 0.119 ug/L

RT: 12.21 min Scan# 3380

Delta R.T. -0.00 min

Lab File: VU039429.D

Acq: 10 Jul 2020 14:57

Instrument :

MSVOA_U

ClientSampleId :

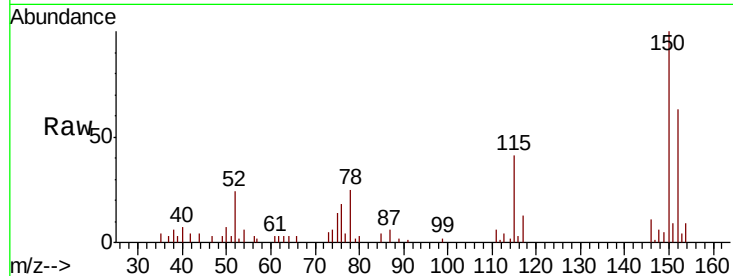
Tot Ion:146 Resp: 1674

Ion Ratio Lower Upper

146 100

111 50.7 35.0 52.4

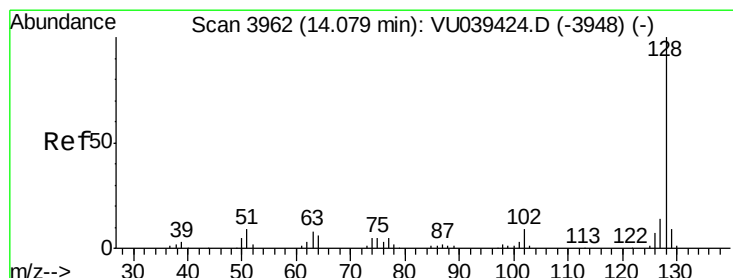
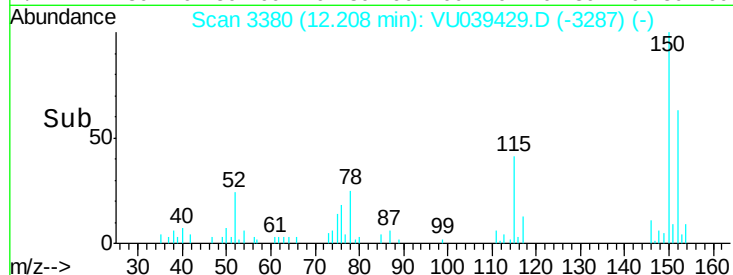
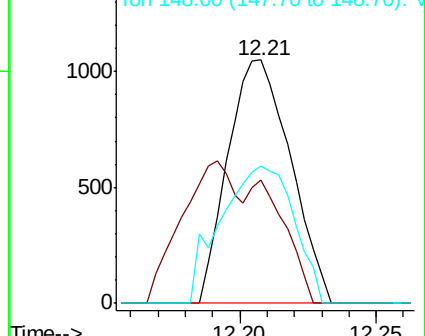
148 56.6 50.6 75.8



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



#69

Naphthalene

Concen: 0.201 ug/L

RT: 14.08 min Scan# 3962

Delta R.T. -0.00 min

Lab File: VU039429.D

Acq: 10 Jul 2020 14:57

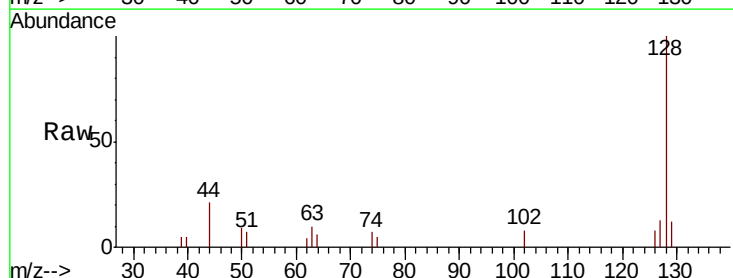
Tgt Ion:128 Resp: 3649

Ion Ratio Lower Upper

128 100

129 9.2 8.6 13.0

127 13.7 10.4 15.6



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

