

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU051220\
 Data File : VU038129.D
 Acq On : 12 May 2020 17:08
 Operator : JC/MD
 Sample : L2570-02
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: May 13 01:16:48 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050720WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed May 13 01:13:24 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	379703	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	361273	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.82	152	183862	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	137442	3.96	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	79.20%
7) Chloroethane-d5	1.93	69	128567	4.28	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	85.60%
11) 1,1-Dichloroethene-d2	2.59	63	181631	3.13	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	62.60%
20) 2-Butanone-d5	4.68	46	544189	63.51	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	127.02%
24) Chloroform-d	5.10	84	241607	4.58	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	91.60%
26) 1,2-Dichloroethane-d4	5.74	65	148867	4.93	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.60%
32) Benzene-d6	5.76	84	525263	4.85	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	97.00%
36) 1,2-Dichloropropane-d6	6.72	67	174900	5.01	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	100.20%
41) Toluene-d8	7.92	98	469953	4.83	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.60%
43) trans-1,3-Dichloropropene-	8.20	79	66374	4.74	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	94.80%
46) 2-Hexanone-d5	8.65	63	430835	65.19	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	130.38%#
57) 1,1,2,2-Tetrachloroethane-	10.77	84	147546	5.35	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	107.00%
64) 1,2-Dichlorobenzene-d4	12.20	152	179044	5.00	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	100.00%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.62	62	20077	0.490	ug/L	87
12) 1,1-Dichloroethene	2.60	96	1583	0.060	ug/L #	1
13) Acetone	2.69	43	28008	5.210	ug/L	76
19) 1,1-Dichloroethane	3.91	63	65221	1.161	ug/L	97
22) cis-1,2-Dichloroethene	4.71	96	84206	2.716	ug/L	100
27) 1,2-Dichloroethane	5.83	62	32020	0.866	ug/L	98
29) 1,1,1-Trichloroethane	5.36	97	3578	0.086	ug/L	92
30) Cyclohexane	5.42	56	24822	0.508	ug/L	99
33) Benzene	5.81	78	325618	2.815	ug/L	100
34) Trichloroethene	6.57	95	13607	0.470	ug/L	94
35) Methylcyclohexane	6.79	83	6124	0.131	ug/L #	84
37) 1,2-Dichloropropane	6.72	63	18617	0.592	ug/L #	45
38) Bromodichloromethane	7.19	83	2490	0.069	ug/L #	25
39) cis-1,3-Dichloropropene	7.59	75	4373	0.097	ug/L #	59
42) Toluene	7.99	91	30925	0.253	ug/L	95
48) 2-Hexanone	8.71	43	39340	2.466	ug/L #	85
51) Chlorobenzene	9.47	112	289070	3.814	ug/L	99

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Quant Title : TRACE VOA SOM01.0
QLast Update : Wed May 13 01:13:24 2020
Response via : Initial Calibration

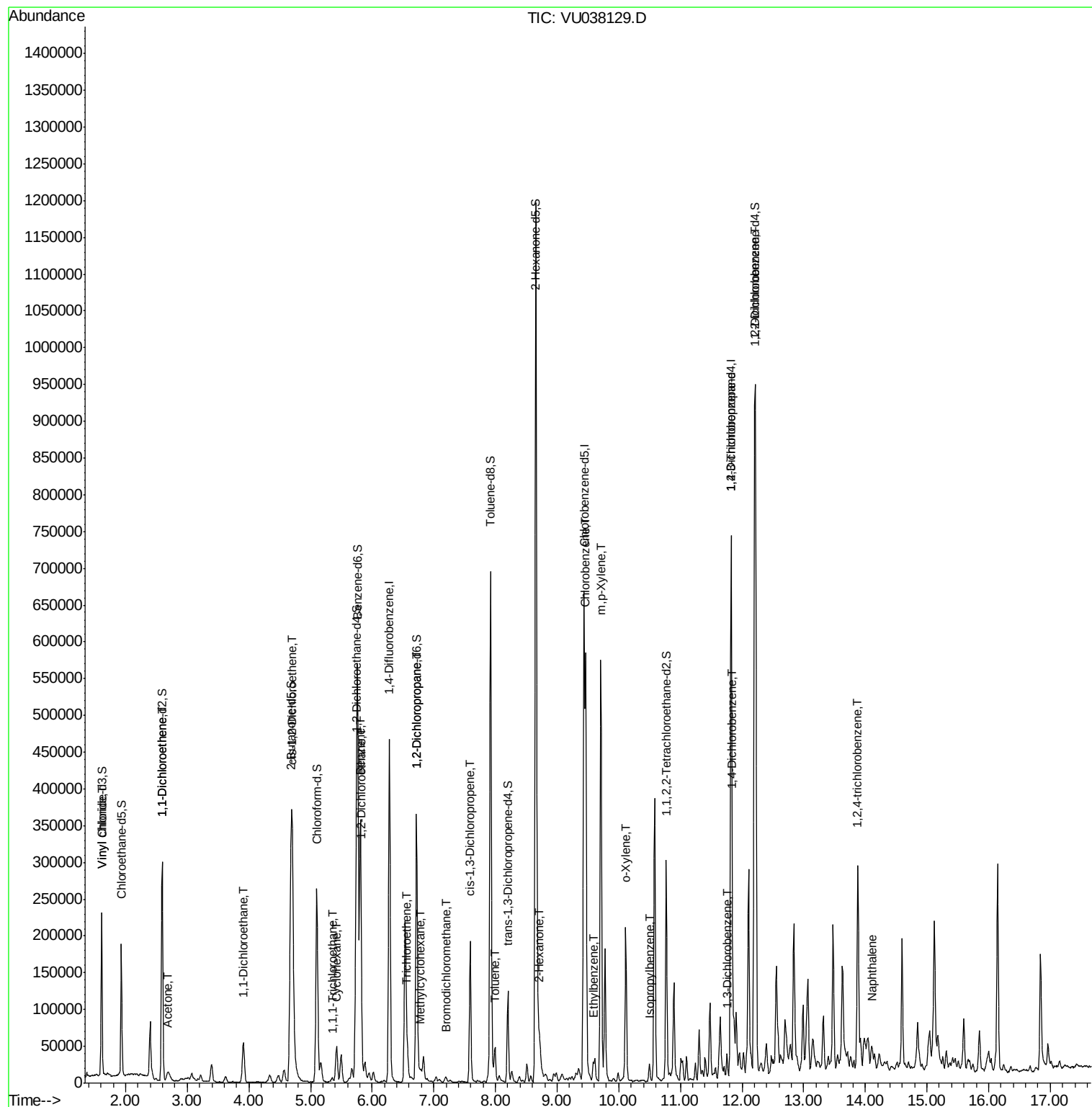
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
52) Ethylbenzene	9.59	91	16965	0.128	ug/L	97
53) m,p-Xylene	9.71	106	168315	3.318	ug/L	96
54) o-Xylene	10.11	106	57042	1.163	ug/L	95
56) Isopropylbenzene	10.50	105	15920	0.126	ug/L	96
59) 1,2,3-Trichloropropane	11.82	75	34650	1.643	ug/L	92
62) 1,3-Dichlorobenzene	11.76	146	10123	0.169	ug/L	93
63) 1,4-Dichlorobenzene	11.85	146	29873	0.493	ug/L	97
65) 1,2-Dichlorobenzene	12.22	146	247208	4.295	ug/L	99
68) 1,2,4-trichlorobenzene	13.87	180	7436	0.189	ug/L #	91
69) Naphthalene	14.11	128	14144	0.171	ug/L	98

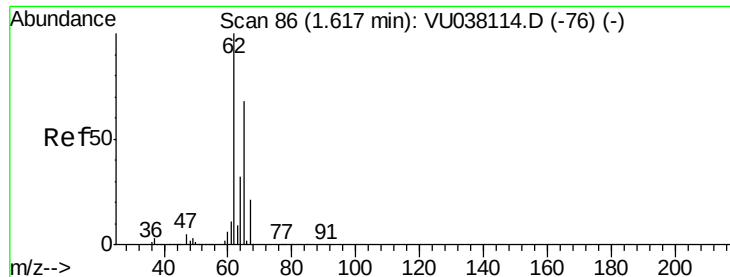
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 0.490 ug/L

RT: 1.62 min Scan# 86

Delta R.T. -0.00 min

Lab File: VU038129.D

Acq: 12 May 2020 17:08

Instrument :

MSVOA_U

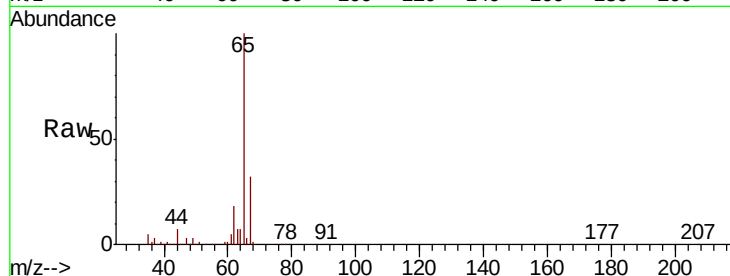
ClientSampleId :

Tot Ion: 62 Resp: 20077

Ion Ratio Lower Upper

62 100

64 39.7 22.8 42.4



Abundance Ion 62.00 (61.70 to 62.70): VU038129.D (-1) (-)

Ion 64.10 (63.80 to 64.80): VU038129.D (-1) (-)

1.62

20000

15000

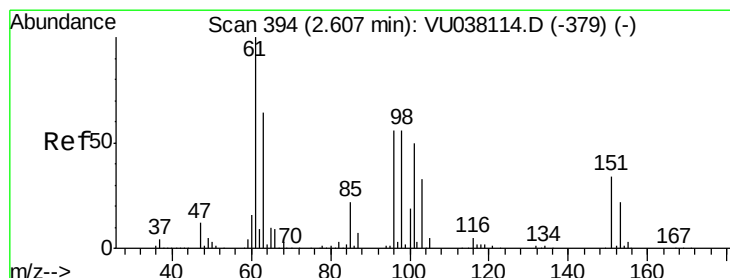
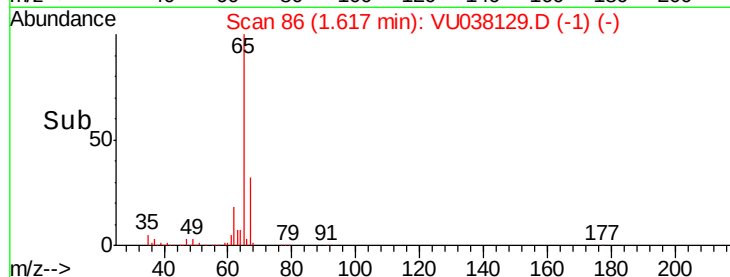
10000

5000

0

1.60 1.65

Time-->



#12

1,1-Dichloroethene

Concen: 0.060 ug/L

RT: 2.60 min Scan# 391

Delta R.T. -0.01 min

Lab File: VU038129.D

Acq: 12 May 2020 17:08

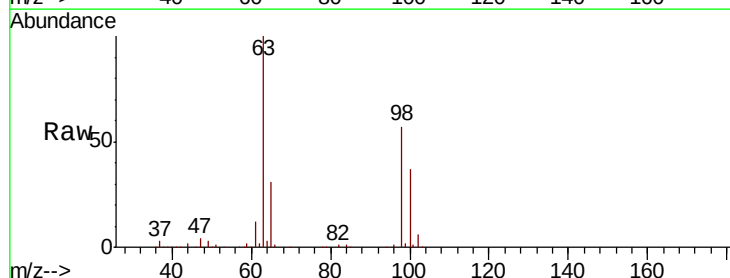
Tgt Ion: 96 Resp: 1583

Ion Ratio Lower Upper

96 100

61 1256.8 126.2 234.4#

63 10554.9 96.9 179.9#



Abundance Ion 96.00 (95.70 to 96.70): VU038129.D (-301) (-)

Ion 61.05 (60.75 to 61.75): VU038129.D (-301) (-)

Ion 63.00 (62.70 to 63.70): VU038129.D (-301) (-)

150000

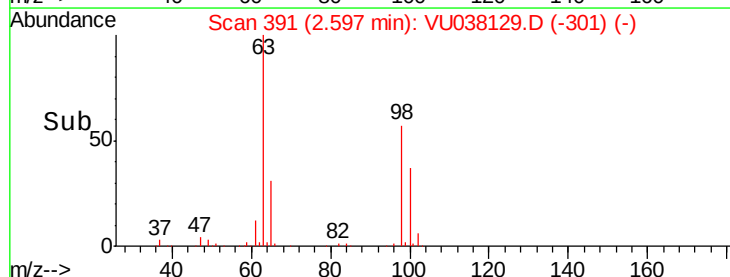
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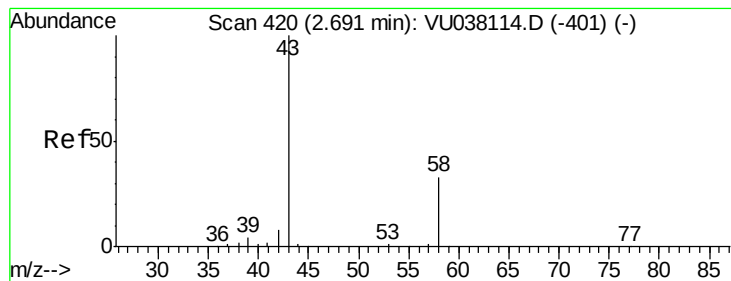
50000

0

2.55 2.60 2.65

Time-->





#13

Acetone

Concen: 5.210 ug/L

RT: 2.69 min Scan# 420

Delta R.T. -0.00 min

Lab File: VU038129.D

Acq: 12 May 2020 17:08

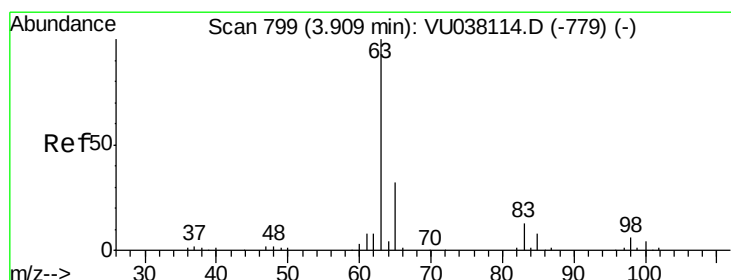
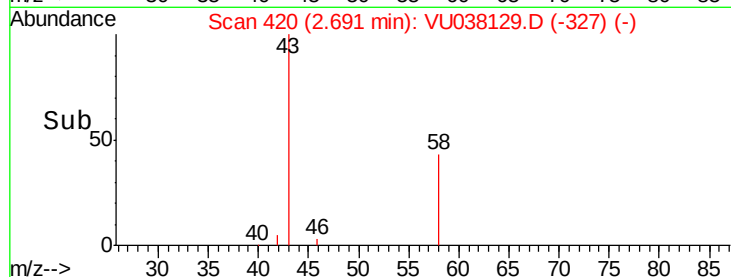
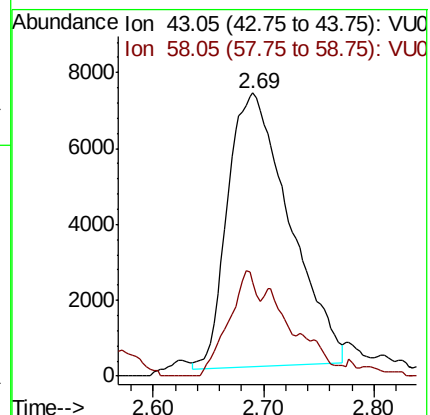
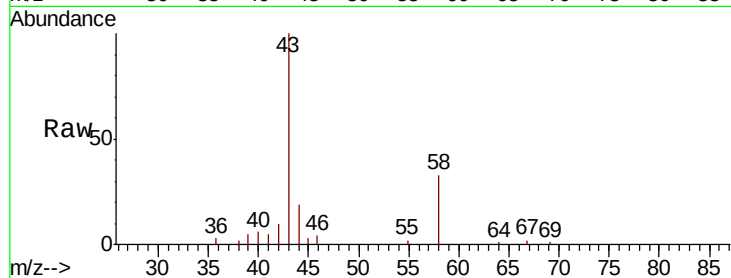
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 28008

Ion Ratio Lower Upper

43 100

58 18.2 0.0 63.6



#19

1,1-Dichloroethane

Concen: 1.161 ug/L

RT: 3.91 min Scan# 799

Delta R.T. -0.00 min

Lab File: VU038129.D

Acq: 12 May 2020 17:08

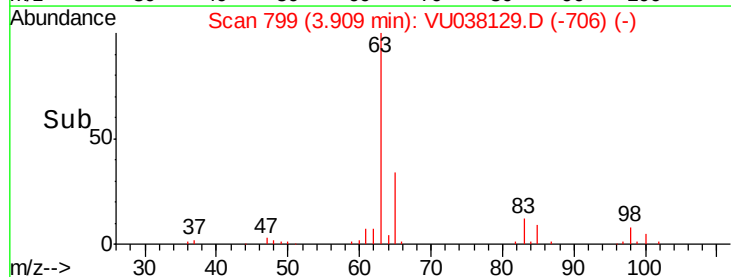
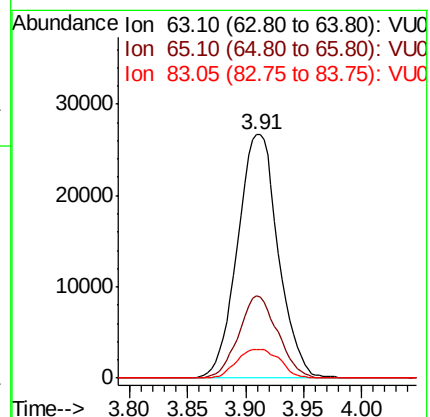
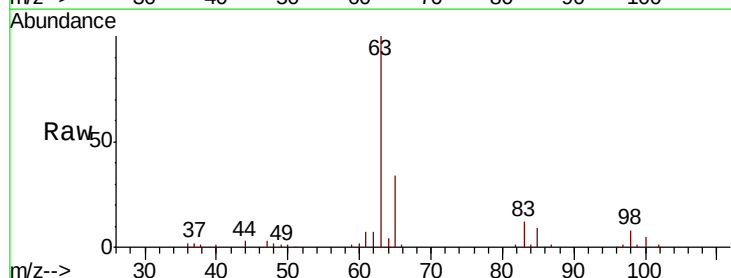
Tgt Ion: 63 Resp: 65221

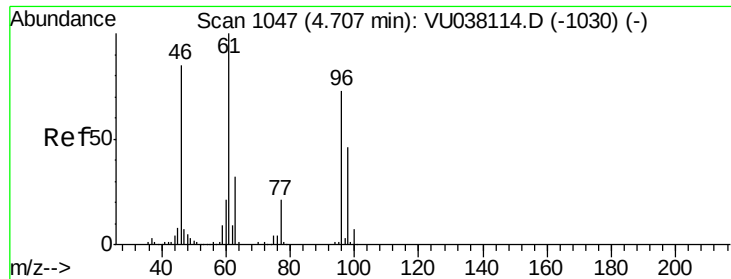
Ion Ratio Lower Upper

63 100

65 34.0 22.5 41.7

83 11.9 8.9 16.5





#22

cis-1,2-Dichloroethene

Concen: 2.716 ug/L

RT: 4.71 min Scan# 1047

Delta R.T. -0.00 min

Lab File: VU038129.D

Acq: 12 May 2020 17:08

Instrument :

MSVOA_U

ClientSampleId :

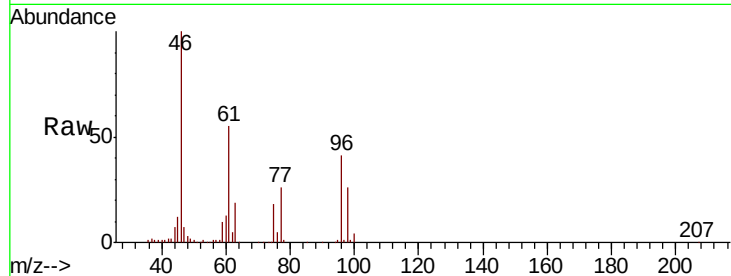
Tot Ion: 96 Resp: 84206

Ion Ratio Lower Upper

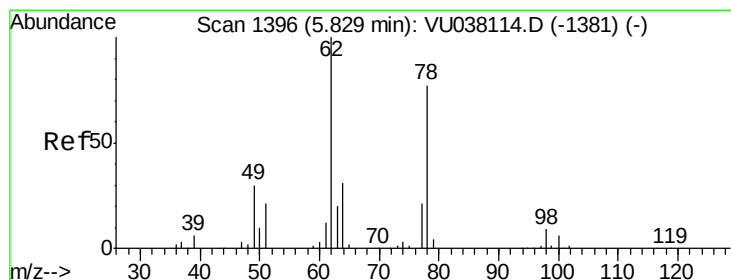
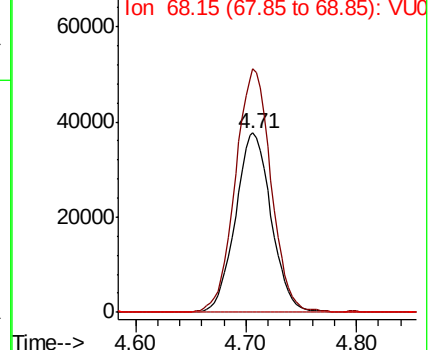
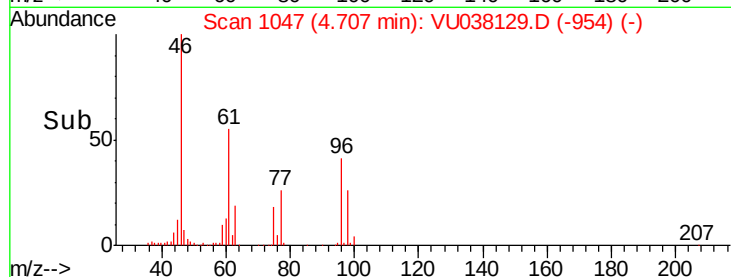
96 100

61 135.7 95.3 176.9

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU038129.D (-954) (-)



#27

1,2-Dichloroethane

Concen: 0.866 ug/L

RT: 5.83 min Scan# 1396

Delta R.T. -0.00 min

Lab File: VU038129.D

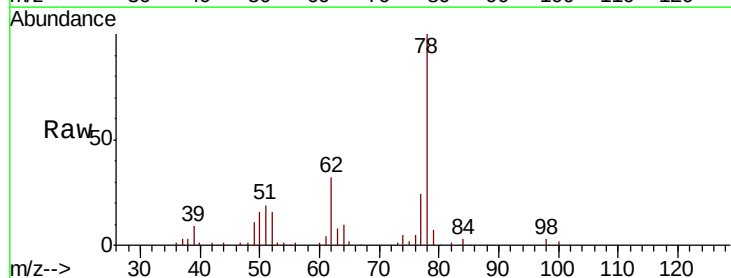
Acq: 12 May 2020 17:08

Tgt Ion: 62 Resp: 32020

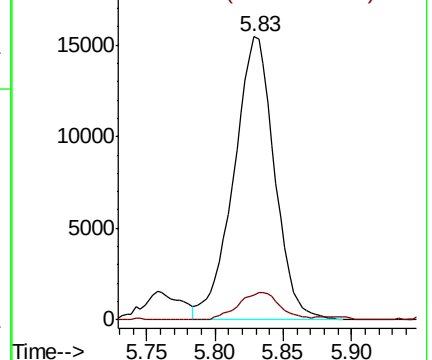
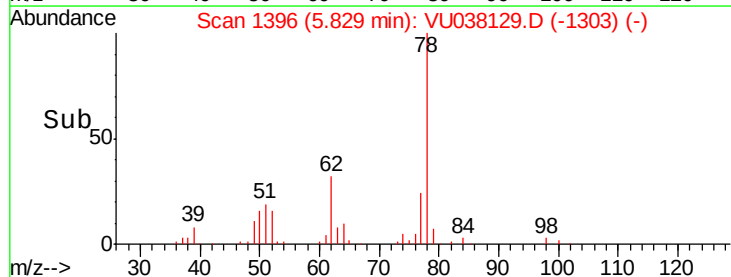
Ion Ratio Lower Upper

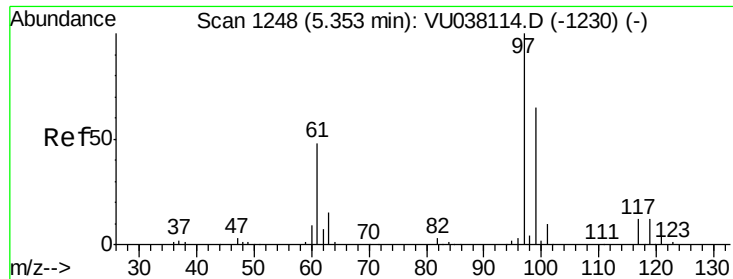
62 100

98 9.0 7.8 11.8



Abundance Ion 62.00 (61.70 to 62.70): VU038129.D (-1303) (-)

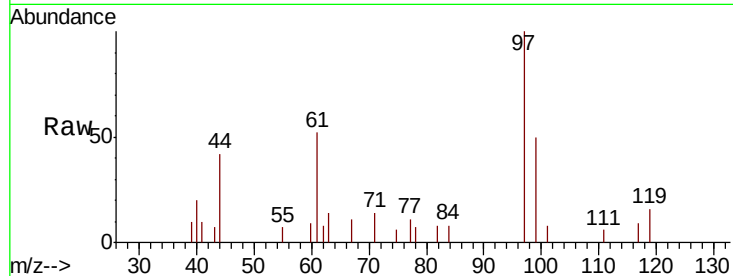




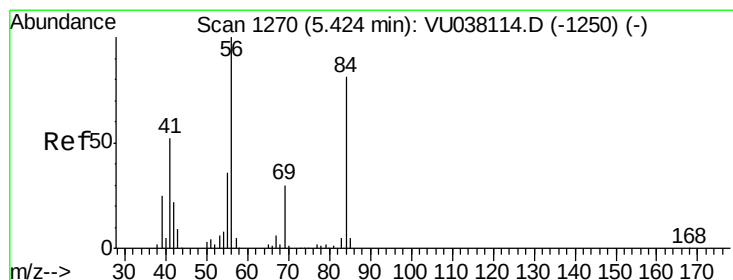
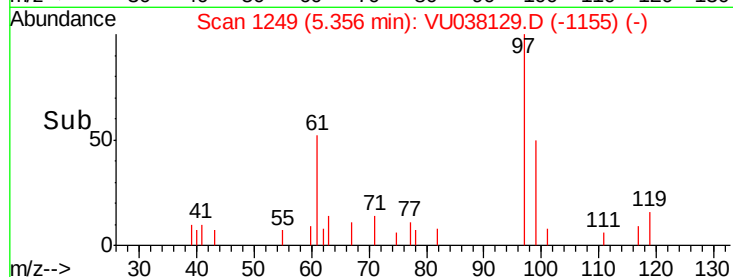
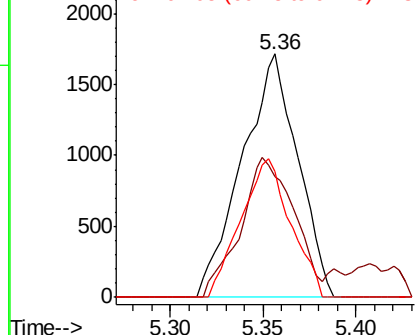
#29
 1,1,1-Trichloroethane
 Concen: 0.086 ug/L
 RT: 5.36 min Scan# 1249
 Delta R.T. 0.00 min
 Lab File: VU038129.D
 Acq: 12 May 2020 17:08

Instrument :
 MSVOA_U
 ClientSampled :

Tot Ion: 97 Resp: 3578
 Ion Ratio Lower Upper
 97 100
 99 55.3 51.0 76.4
 61 50.8 38.2 57.4

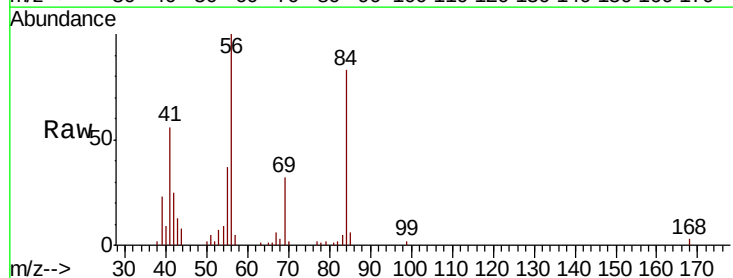


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 61.05 (60.75 to 61.75): VU0

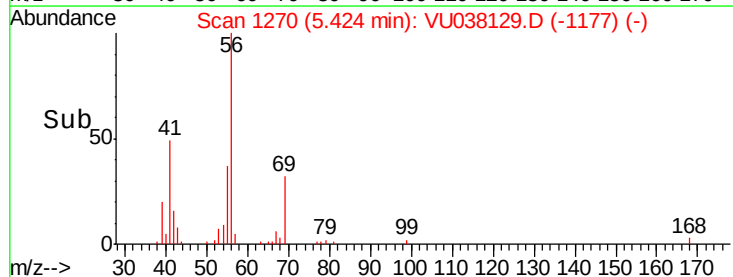
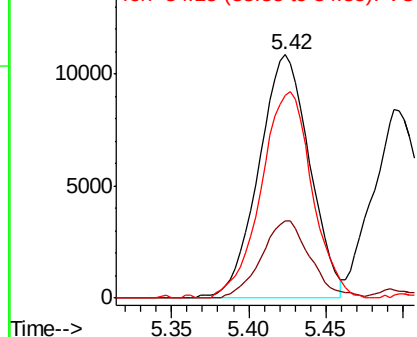


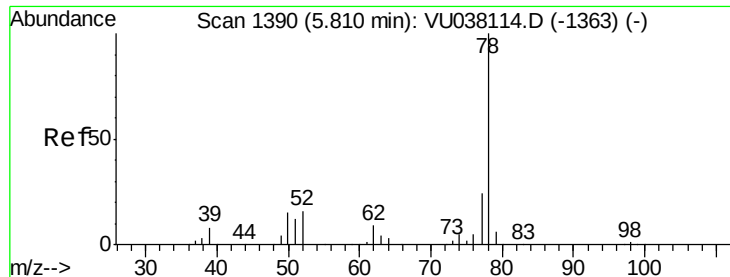
#30
 Cyclohexane
 Concen: 0.508 ug/L
 RT: 5.42 min Scan# 1270
 Delta R.T. -0.00 min
 Lab File: VU038129.D
 Acq: 12 May 2020 17:08

Tgt Ion: 56 Resp: 24822
 Ion Ratio Lower Upper
 56 100
 69 30.6 24.2 36.4
 84 85.1 68.5 102.7



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: 2.815 ug/L

RT: 5.81 min Scan# 1390

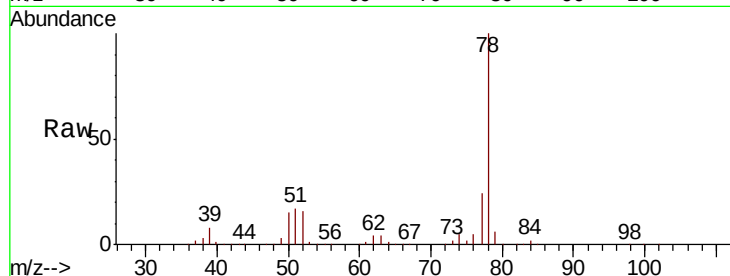
Delta R.T. -0.00 min

Lab File: VU038129.D

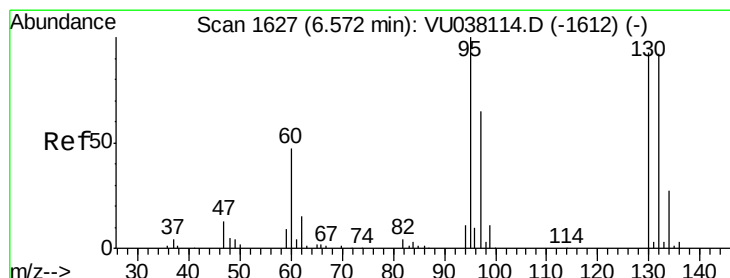
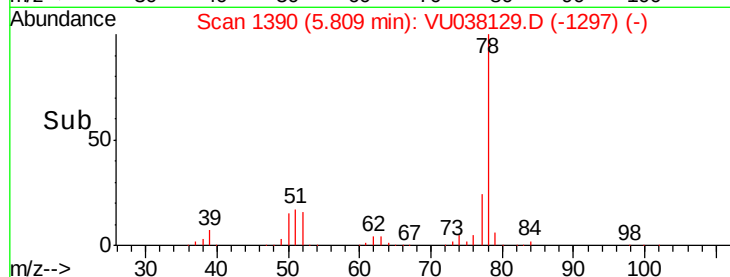
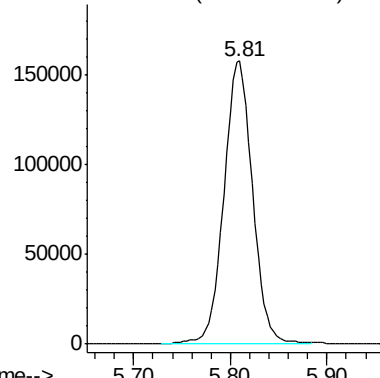
Acq: 12 May 2020 17:08

Instrument :
MSVOA_U
ClientSampled :

Tgt Ion: 78 Resp: 325618



Abundance Ion 78.10 (77.80 to 78.80): VU0



#34

Trichloroethene

Concen: 0.470 ug/L

RT: 6.57 min Scan# 1627

Delta R.T. -0.00 min

Lab File: VU038129.D

Acq: 12 May 2020 17:08

Tgt Ion: 95 Resp: 13607

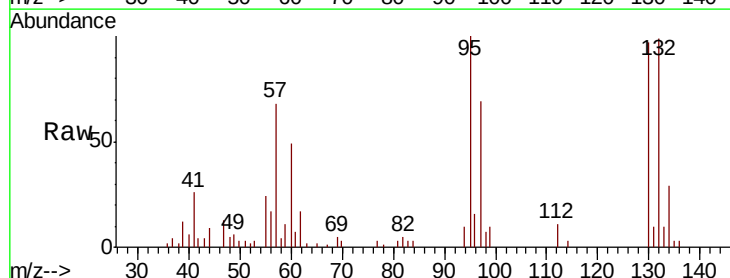
Ion	Ratio	Lower	Upper
95	100		
97	68.7	44.9	83.3
132	98.6	63.3	117.5
130	97.1	65.7	122.1

95 100

97 68.7 44.9 83.3

132 98.6 63.3 117.5

130 97.1 65.7 122.1

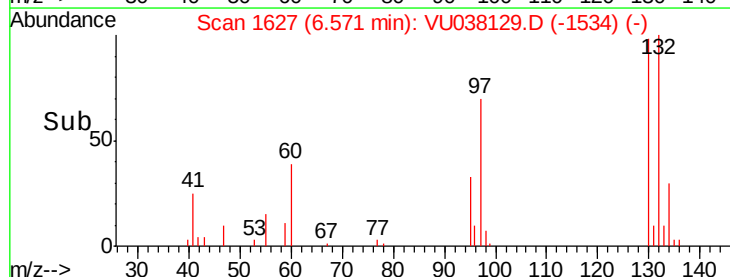


Abundance Ion 95.00 (94.70 to 95.70): VU0

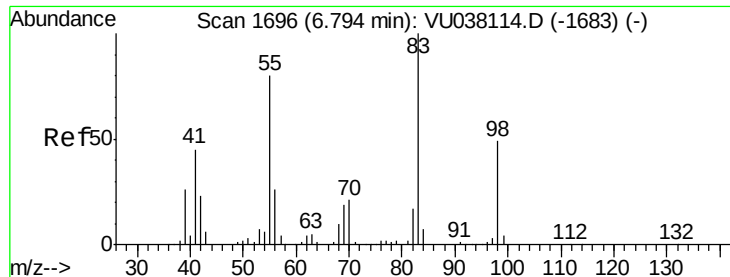
Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



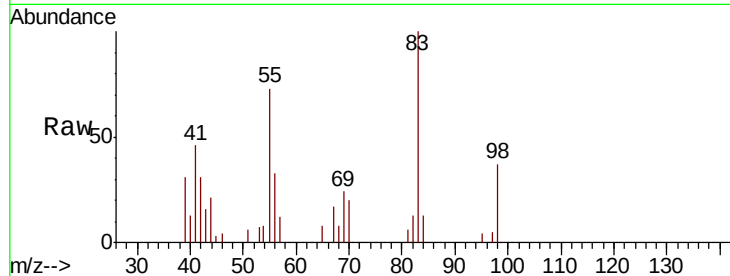
Time-->



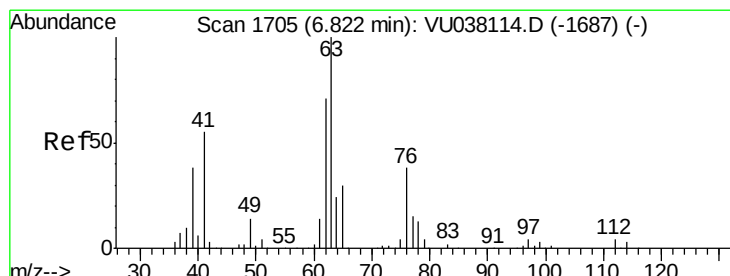
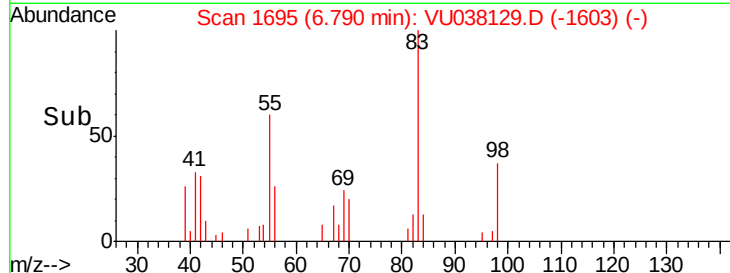
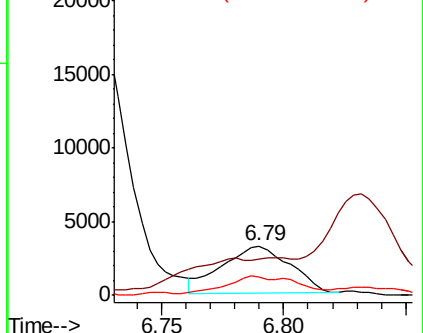
#35
Methylvlcyclohexane
Concen: 0.131 ug/L
RT: 6.79 min Scan# 1695
Delta R.T. -0.00 min
Lab File: VU038129.D
Acq: 12 May 2020 17:08

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 83 Resp: 6124
Ion Ratio Lower Upper
83 100
55 62.9 66.7 100.1#
98 45.4 39.4 59.2

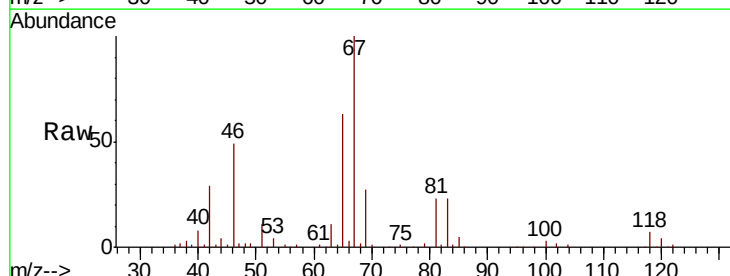


Abundance Ion 83.15 (82.85 to 83.85): VU0
Ion 55.10 (54.80 to 55.80): VU0
Ion 98.15 (97.85 to 98.85): VU0

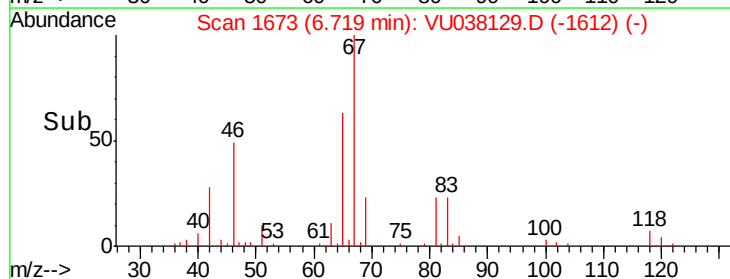
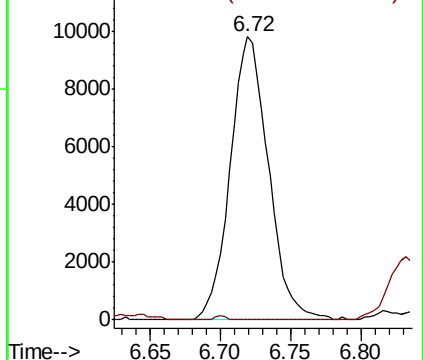


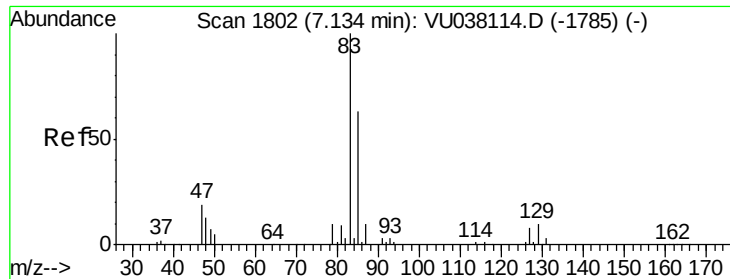
#37
1,2-Dichloropropane
Concen: 0.592 ug/L
RT: 6.72 min Scan# 1673
Delta R.T. -0.10 min
Lab File: VU038129.D
Acq: 12 May 2020 17:08

Tgt Ion: 63 Resp: 18617
Ion Ratio Lower Upper
63 100
112 21.9 3.1 4.7#



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





#38

Bromodichloromethane

Concen: 0.069 ug/L

RT: 7.19 min Scan# 1819

Delta R.T. 0.05 min

Lab File: VU038129.D

Acq: 12 May 2020 17:08

Instrument :

MSVOA_U

ClientSampleId :

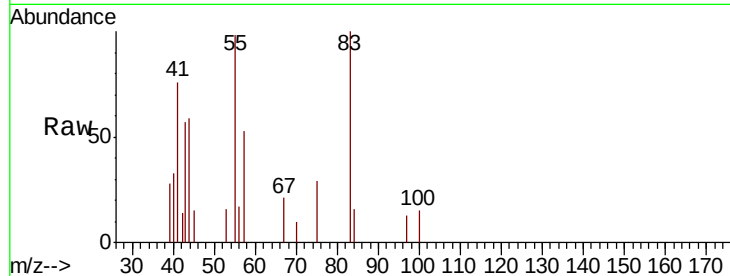
Tot Ion: 83 Resp: 2490

Ion Ratio Lower Upper

83 100

85 0.0 44.6 82.8#

127 0.0 6.4 9.6#

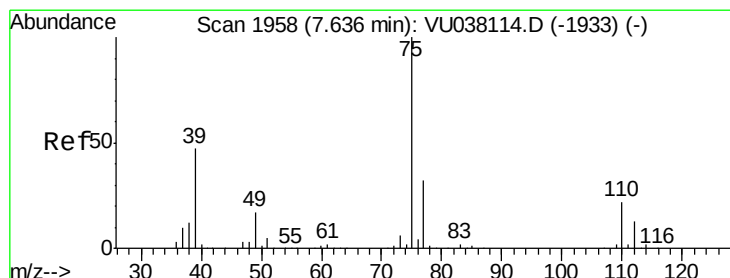
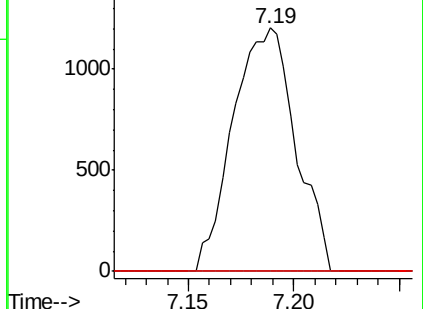
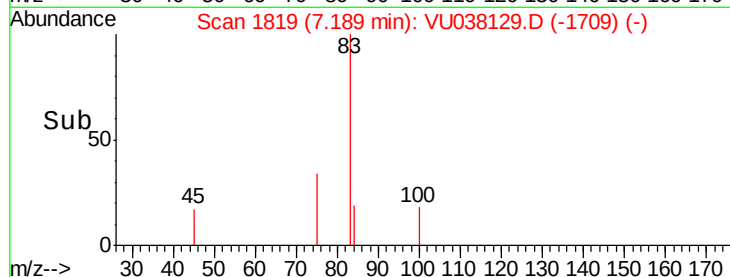


Abundance Ion 82.95 (82.65 to 83.65): VU038114.D (-1785) (-)

Ion 85.00 (84.70 to 85.70): VU038114.D (-1785) (-)

Ion 126.90 (126.60 to 127.60): VU038114.D (-1785) (-)

Time-->



#39

cis-1,3-Dichloropropene

Concen: 0.097 ug/L

RT: 7.59 min Scan# 1943

Delta R.T. -0.05 min

Lab File: VU038129.D

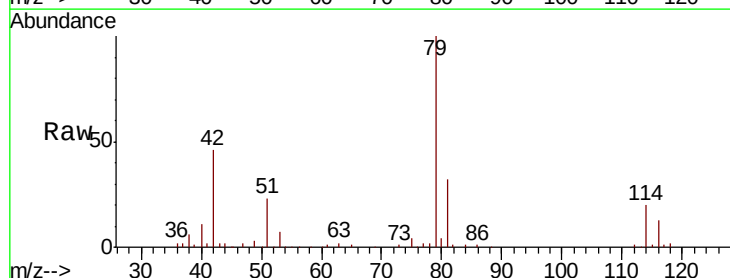
Acq: 12 May 2020 17:08

Tgt Ion: 75 Resp: 4373

Ion Ratio Lower Upper

75 100

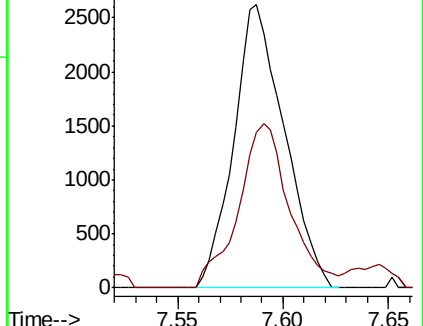
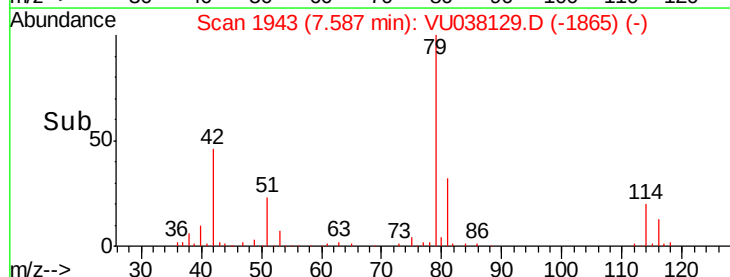
77 54.9 22.4 41.6#

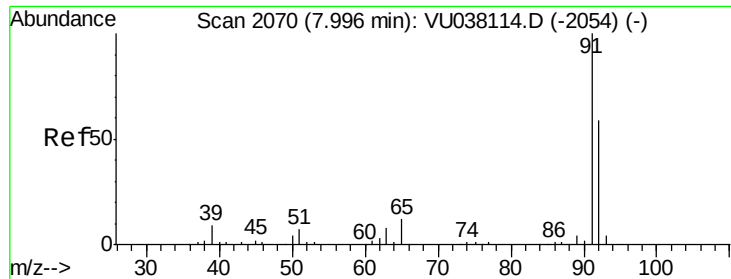


Abundance Ion 75.05 (74.75 to 75.75): VU038114.D (-1933) (-)

Ion 77.05 (76.75 to 77.75): VU038114.D (-1933) (-)

Time-->





#42

Toluene

Concen: 0.253 ug/L

RT: 7.99 min Scan# 2069

Delta R.T. -0.00 min

Lab File: VU038129.D

Acq: 12 May 2020 17:08

Instrument :

MSVOA_U

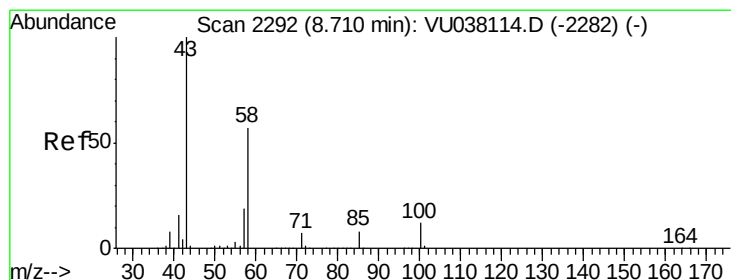
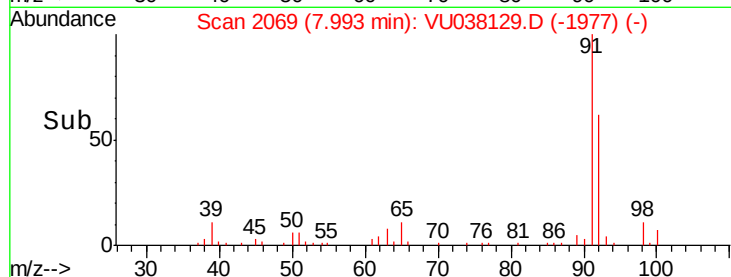
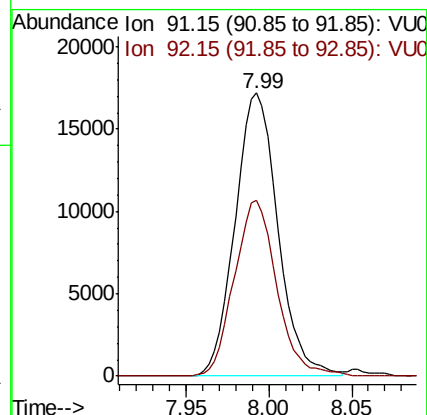
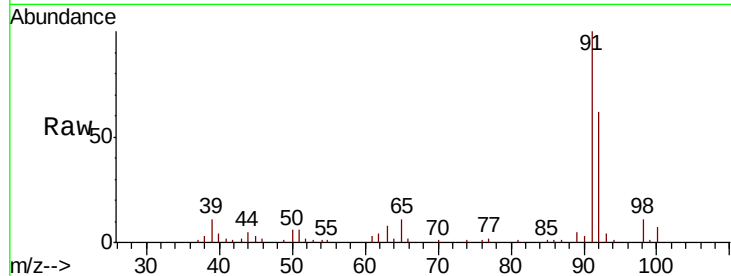
ClientSampleId :

Tot Ion: 91 Resp: 30925

Ion Ratio Lower Upper

91 100

92 62.1 40.9 75.9



#48

2-Hexanone

Concen: 2.466 ug/L

RT: 8.71 min Scan# 2293

Delta R.T. 0.00 min

Lab File: VU038129.D

Acq: 12 May 2020 17:08

Tgt Ion: 43 Resp: 39340

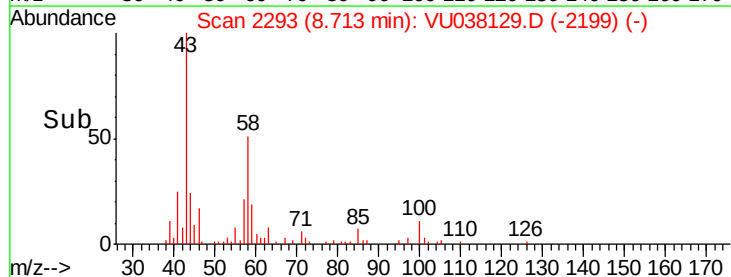
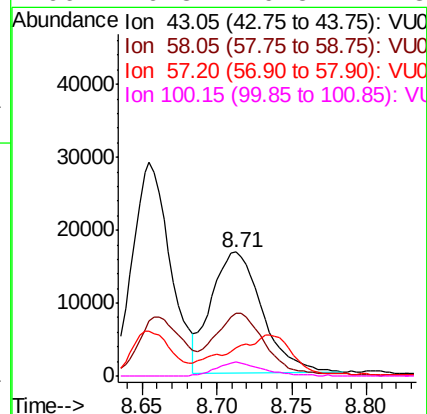
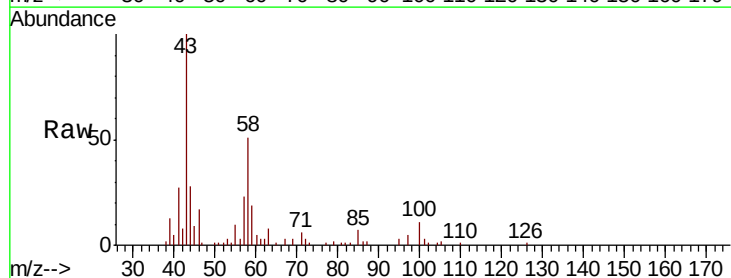
Ion Ratio Lower Upper

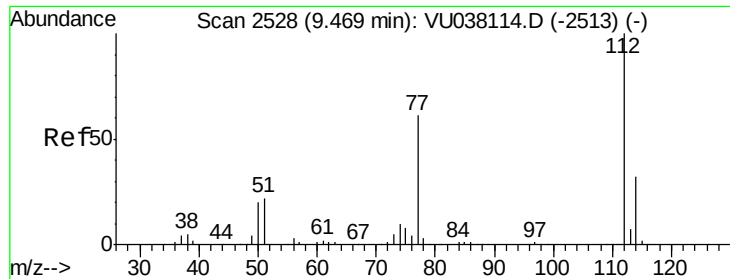
43 100

58 53.1 45.2 67.8

57 42.1 15.5 23.3#

100 10.3 9.5 14.3





#51

Chlorobenzene

Concen: 3.814 ug/L

RT: 9.47 min Scan# 2527

Delta R.T. -0.00 min

Lab File: VU038129.D

Acq: 12 May 2020 17:08

Instrument :

MSVOA_U

ClientSampled :

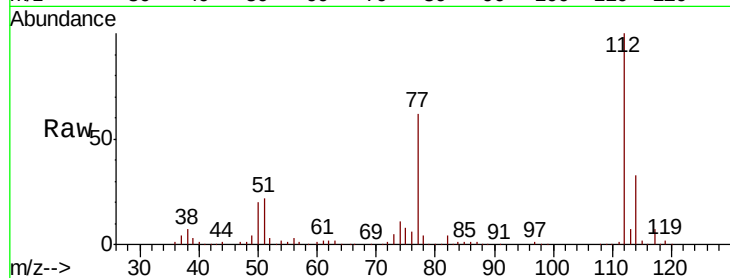
Tot Ion:112 Resp: 289070

Ion Ratio Lower Upper

112 100

114 32.8 22.5 41.7

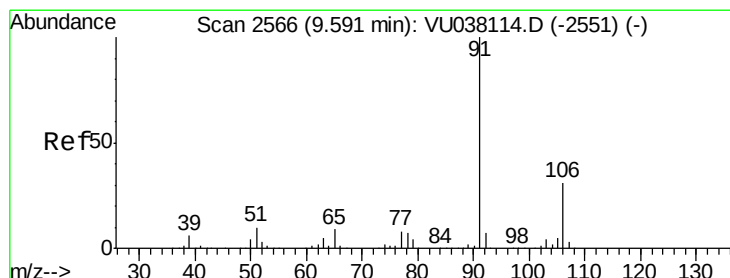
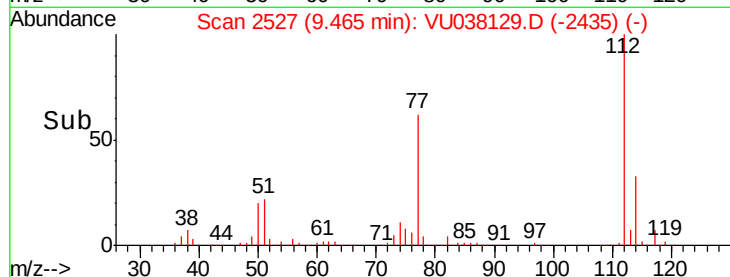
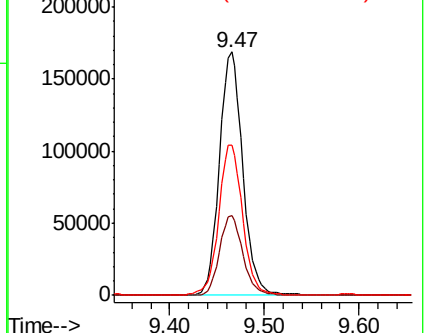
77 61.9 49.9 74.9



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): VU



#52

Ethylbenzene

Concen: 0.128 ug/L

RT: 9.59 min Scan# 2565

Delta R.T. -0.00 min

Lab File: VU038129.D

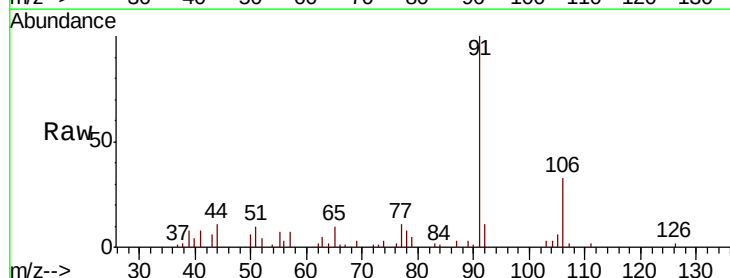
Acq: 12 May 2020 17:08

Tgt Ion: 91 Resp: 16965

Ion Ratio Lower Upper

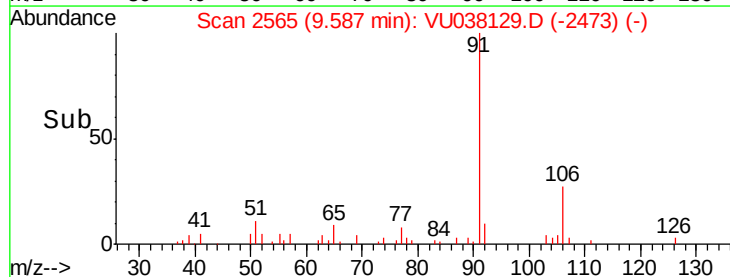
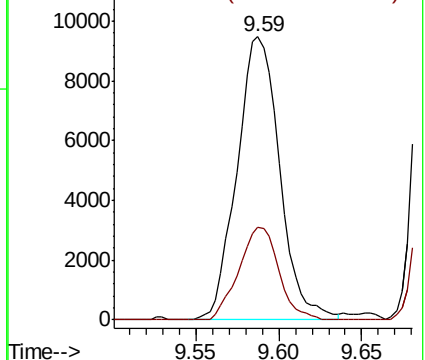
91 100

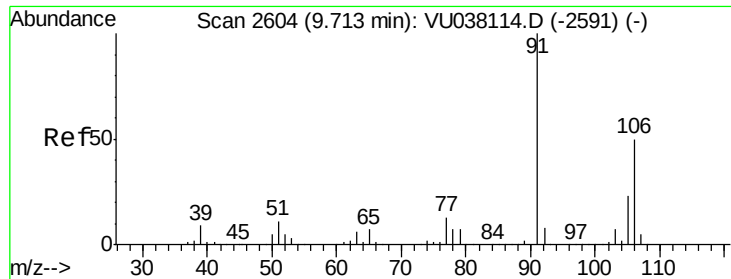
106 32.6 21.8 40.4



Abundance Ion 91.15 (90.85 to 91.85): VU

Ion 106.15 (105.85 to 106.85): V

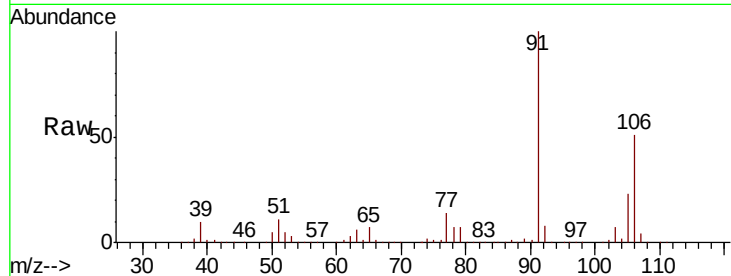




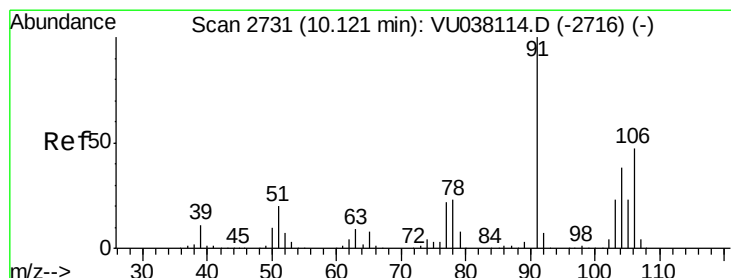
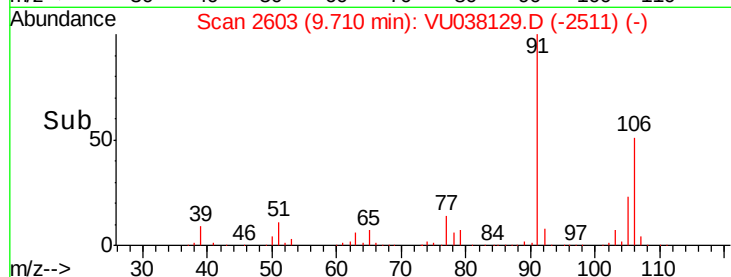
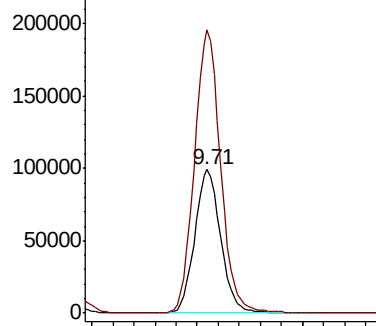
#53
m,p-Xylene
Concen: 3.318 ug/L
RT: 9.71 min Scan# 2603
Delta R.T. -0.00 min
Lab File: VU038129.D
Acq: 12 May 2020 17:08

Instrument :
MSVOA_U
ClientSampled :

Tot Ion:106 Resp: 168315
Ion Ratio Lower Upper
106 100
91 196.8 142.1 263.9

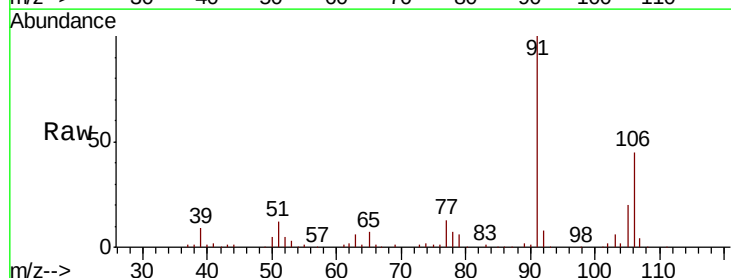


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

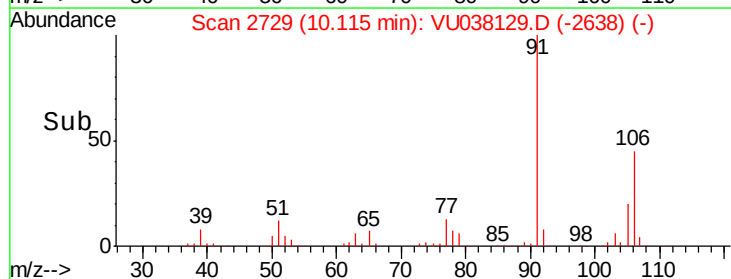
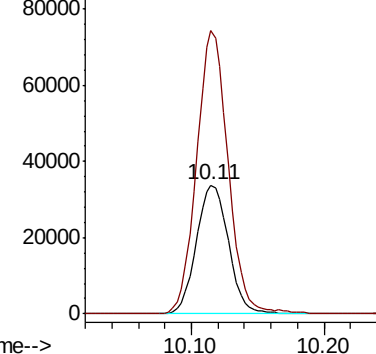


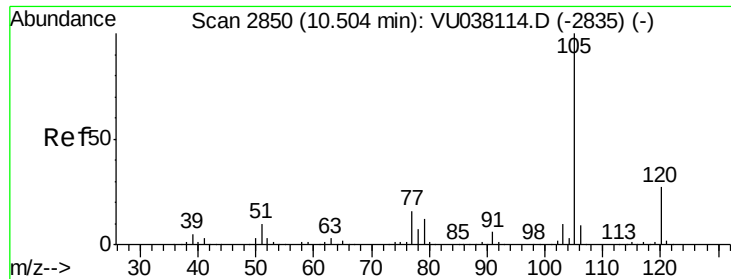
#54
o-Xylene
Concen: 1.163 ug/L
RT: 10.11 min Scan# 2729
Delta R.T. -0.01 min
Lab File: VU038129.D
Acq: 12 May 2020 17:08

Tgt Ion:106 Resp: 57042
Ion Ratio Lower Upper
106 100
91 220.1 148.5 275.9



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





#56

Isopropylbenzene

Concen: 0.126 ug/L

RT: 10.50 min Scan# 2848

Delta R.T. -0.01 min

Lab File: VU038129.D

Acq: 12 May 2020 17:08

Instrument :

MSVOA_U

ClientSampleId :

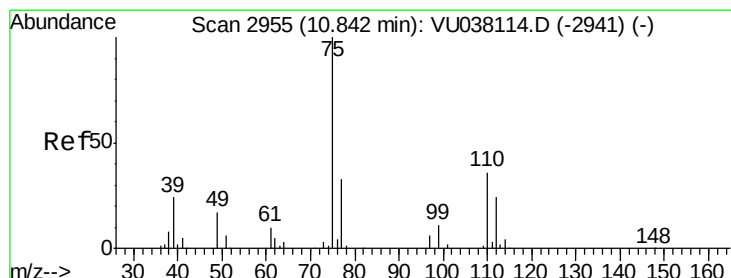
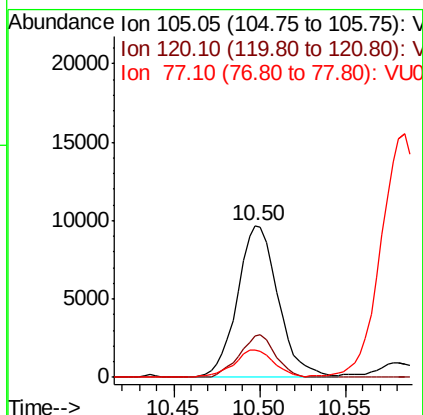
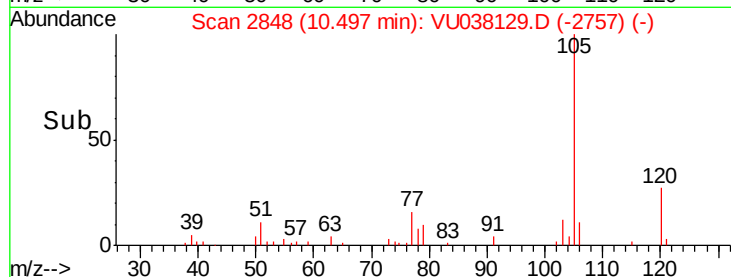
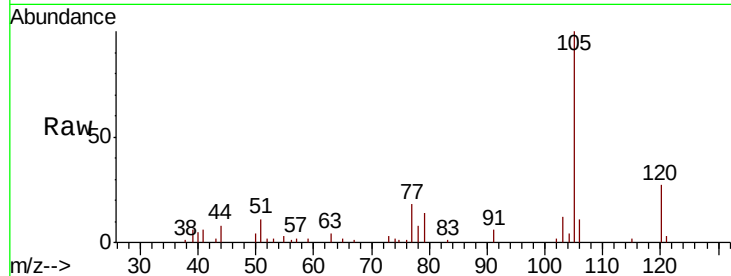
Tot Ion:105 Resp: 15920

Ion Ratio Lower Upper

105 100

120 24.4 21.0 31.6

77 17.6 13.0 19.4



#59

1,2,3-Trichloropropane

Concen: 1.643 ug/L

RT: 11.82 min Scan# 3260

Delta R.T. 0.98 min

Lab File: VU038129.D

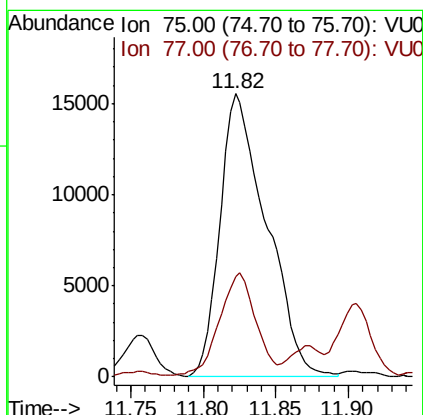
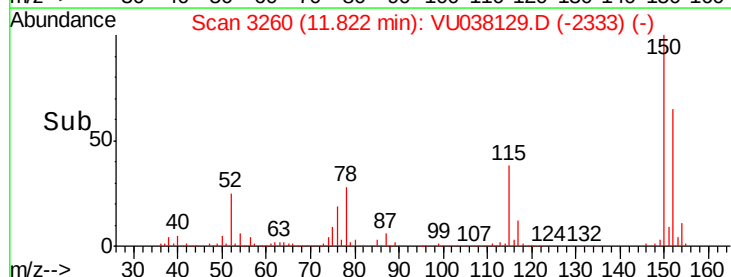
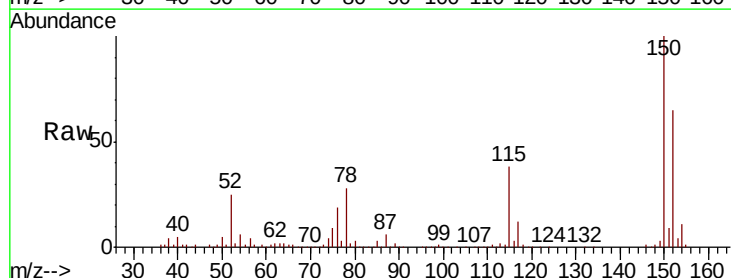
Acq: 12 May 2020 17:08

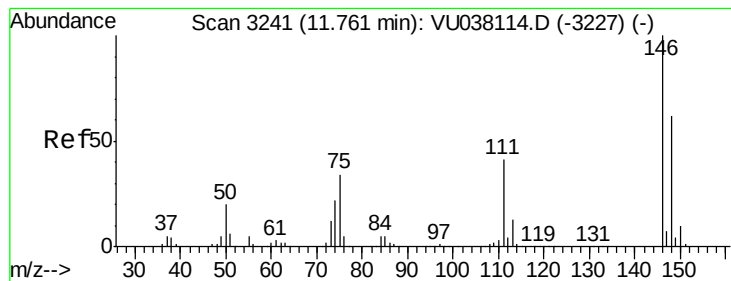
Tgt Ion: 75 Resp: 34650

Ion Ratio Lower Upper

75 100

77 27.5 25.4 38.0





#62

1,3-Dichlorobenzene

Concen: 0.169 ug/L

RT: 11.76 min Scan# 3240

Delta R.T. -0.00 min

Lab File: VU038129.D

Acq: 12 May 2020 17:08

Instrument :

MSVOA_U

ClientSampled :

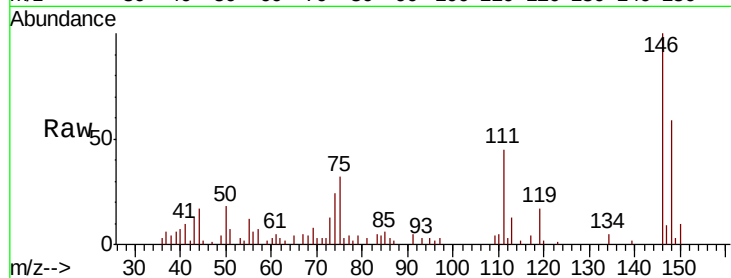
Tot Ion:146 Resp: 10123

Ion Ratio Lower Upper

146 100

111 45.2 28.6 53.2

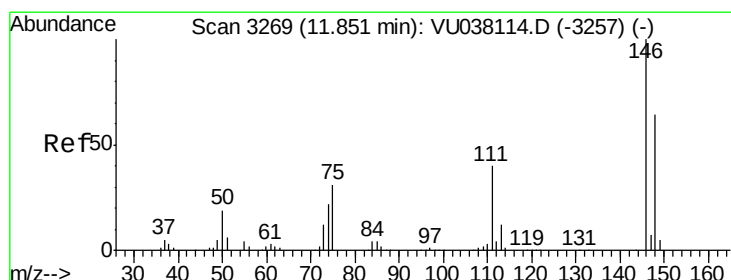
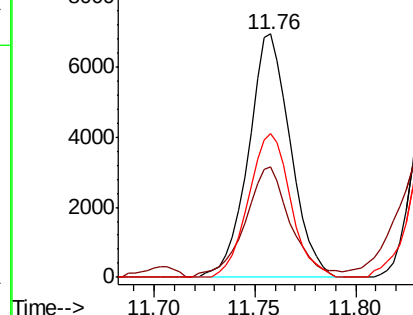
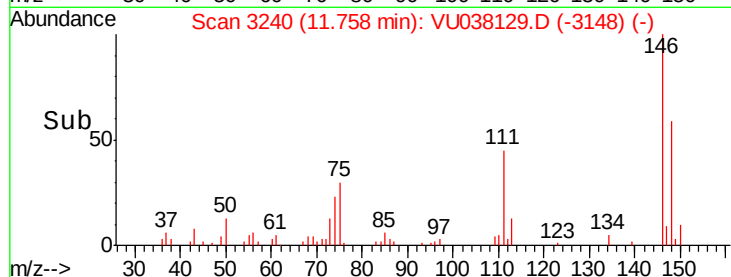
148 59.1 45.2 84.0



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 0.493 ug/L

RT: 11.85 min Scan# 3268

Delta R.T. -0.00 min

Lab File: VU038129.D

Acq: 12 May 2020 17:08

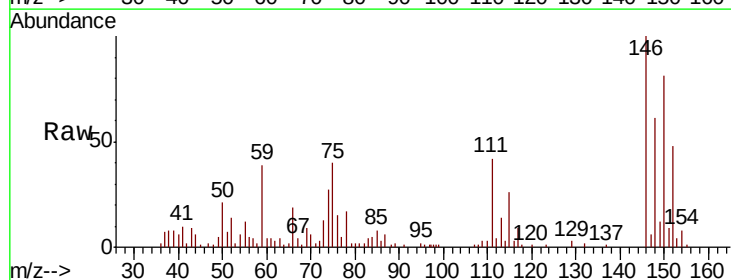
Tgt Ion:146 Resp: 29873

Ion Ratio Lower Upper

146 100

111 42.2 27.2 50.6

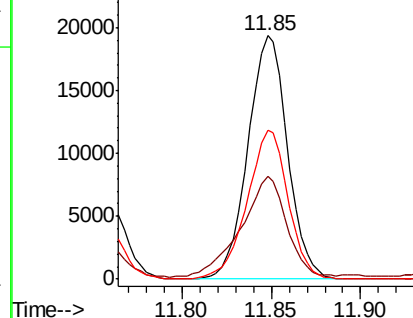
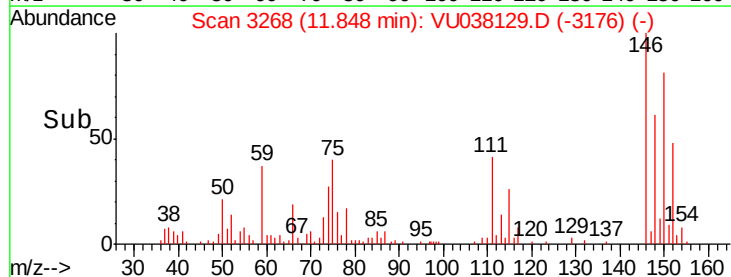
148 61.3 43.8 81.3

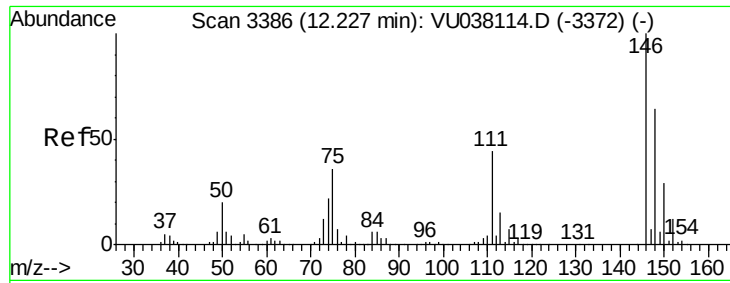


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 4.295 ug/L

RT: 12.22 min Scan# 3385

Delta R.T. -0.00 min

Lab File: VU038129.D

Acq: 12 May 2020 17:08

Instrument :

MSVOA_U

ClientSampleId :

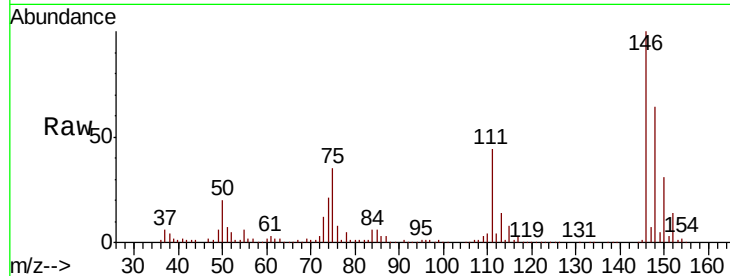
Tot Ion:146 Resp: 247208

Ion Ratio Lower Upper

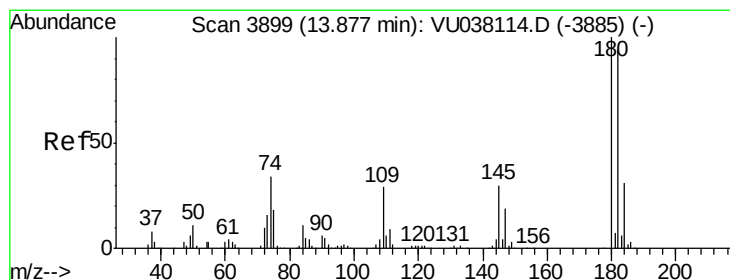
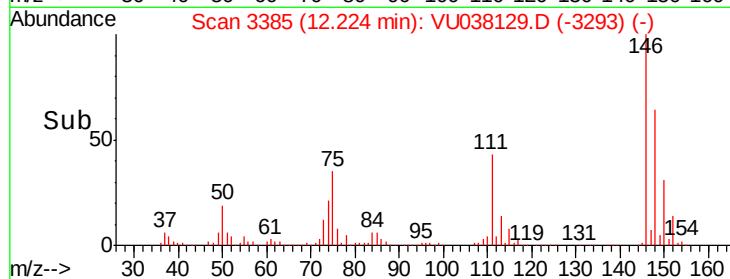
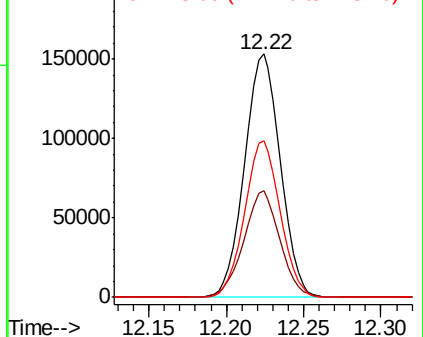
146 100

111 43.7 35.3 52.9

148 64.3 51.0 76.4



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



#68

1,2,4-trichlorobenzene

Concen: 0.189 ug/L

RT: 13.87 min Scan# 3896

Delta R.T. -0.01 min

Lab File: VU038129.D

Acq: 12 May 2020 17:08

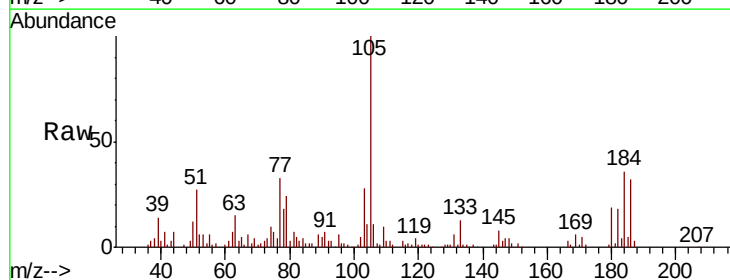
Tgt Ion:180 Resp: 7436

Ion Ratio Lower Upper

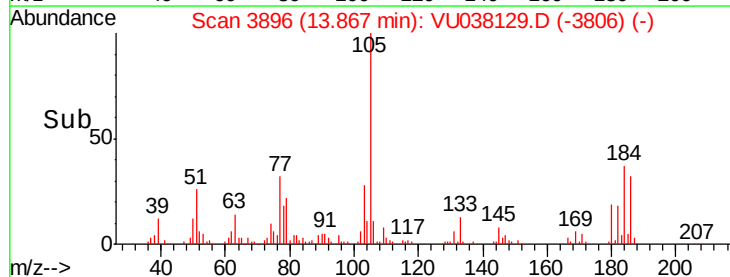
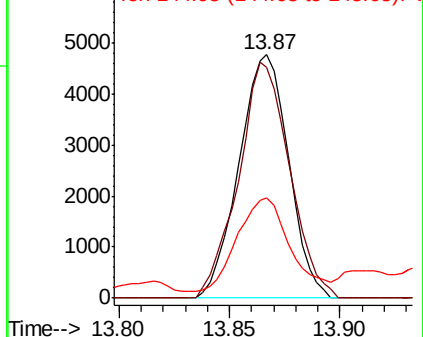
180 100

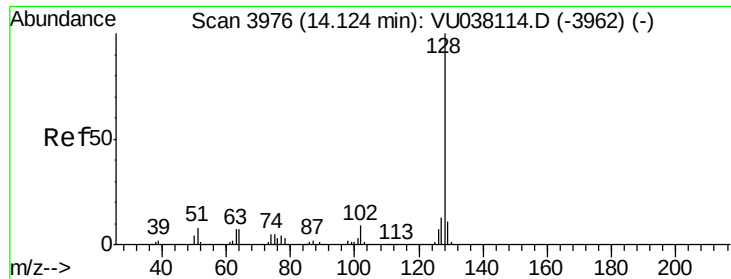
182 99.7 75.0 112.6

145 41.9 24.8 37.2#



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





#69

Naphthalene

Concen: 0.171 ug/L

RT: 14.11 min Scan# 3973

Delta R.T. -0.01 min

Lab File: VU038129.D

Acq: 12 May 2020 17:08

Instrument :

MSVOA_U

ClientSampleId :

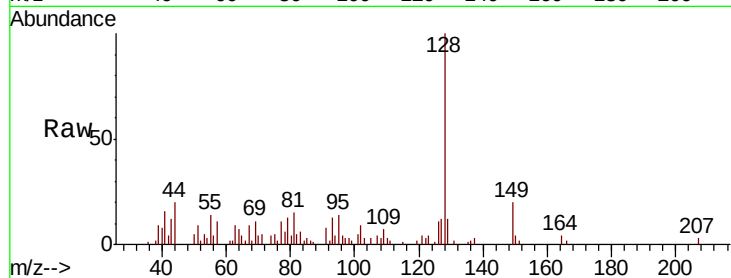
Tot Ion:128 Resp: 14144

Ion Ratio Lower Upper

128 100

129 12.1 8.7 13.1

127 12.6 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

