

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU060620\
 Data File : VU038641.D
 Acq On : 07 Jun 2020 01:44
 Operator : SY/MD
 Sample : L2911-04
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 F9D05

Quant Time: Jun 08 03:01:42 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR053120WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Mon Jun 08 02:53:04 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	307349	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	311599	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.82	152	160587	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	87563	4.40	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	88.00%
7) Chloroethane-d5	1.93	69	76161	4.98	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	99.60%
11) 1,1-Dichloroethene-d2	2.59	63	137611	3.51	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	70.20%
20) 2-Butanone-d5	4.68	46	348230	57.63	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	115.26%
24) Chloroform-d	5.10	84	188638	5.05	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	101.00%
26) 1,2-Dichloroethane-d4	5.74	65	108824	5.13	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	102.60%
32) Benzene-d6	5.76	84	381171	4.90	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	98.00%
36) 1,2-Dichloropropane-d6	6.72	67	121240	5.07	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	101.40%
41) Toluene-d8	7.92	98	370804	5.31	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	106.20%
43) trans-1,3-Dichloropropene-	8.20	79	49499	4.81	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	96.20%
46) 2-Hexanone-d5	8.65	63	298404	58.74	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	117.48%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	106696	5.25	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	105.00%
64) 1,2-Dichlorobenzene-d4	12.20	152	144783	5.23	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	104.60%

Target Compounds

					Ovalue
15) Methyl Acetate	2.99	43	2970	0.307 ug/L #	51
16) Methylene chloride	3.07	84	1464	0.068 ug/L #	8
27) 1,2-Dichloroethane	5.82	62	133882	5.128 ug/L #	87
30) Cyclohexane	5.42	56	183519	5.308 ug/L	97
33) Benzene	5.81	78	7222311	83.119 ug/L	100
35) Methylcyclohexane	6.77	83	32571	0.933 ug/L #	1
37) 1,2-Dichloropropane	6.82	63	2902	0.133 ug/L #	1
38) Bromodichloromethane	7.10	83	15232	0.561 ug/L #	74
39) cis-1,3-Dichloropropene	7.59	75	3853	0.119 ug/L #	13
42) Toluene	7.99	91	294456	3.231 ug/L	97
44) trans-1,3-Dichloropropene	8.13	75	6847	0.240 ug/L	91
45) 1,1,2-Trichloroethane	8.39	97	90550	5.489 ug/L #	21
48) 2-Hexanone	8.71	43	16833	1.421 ug/L	92
50) 1,2-Dibromoethane	8.97	107	2568	0.163 ug/L #	1
52) Ethylbenzene	9.59	91	463393	4.570 ug/L	100
53) m,p-Xylene	9.71	106	28853	0.740 ug/L	88
54) o-Xylene	10.11	106	25719	0.687 ug/L	92

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Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Jun 08 02:53:04 2020
Response via : Initial Calibration

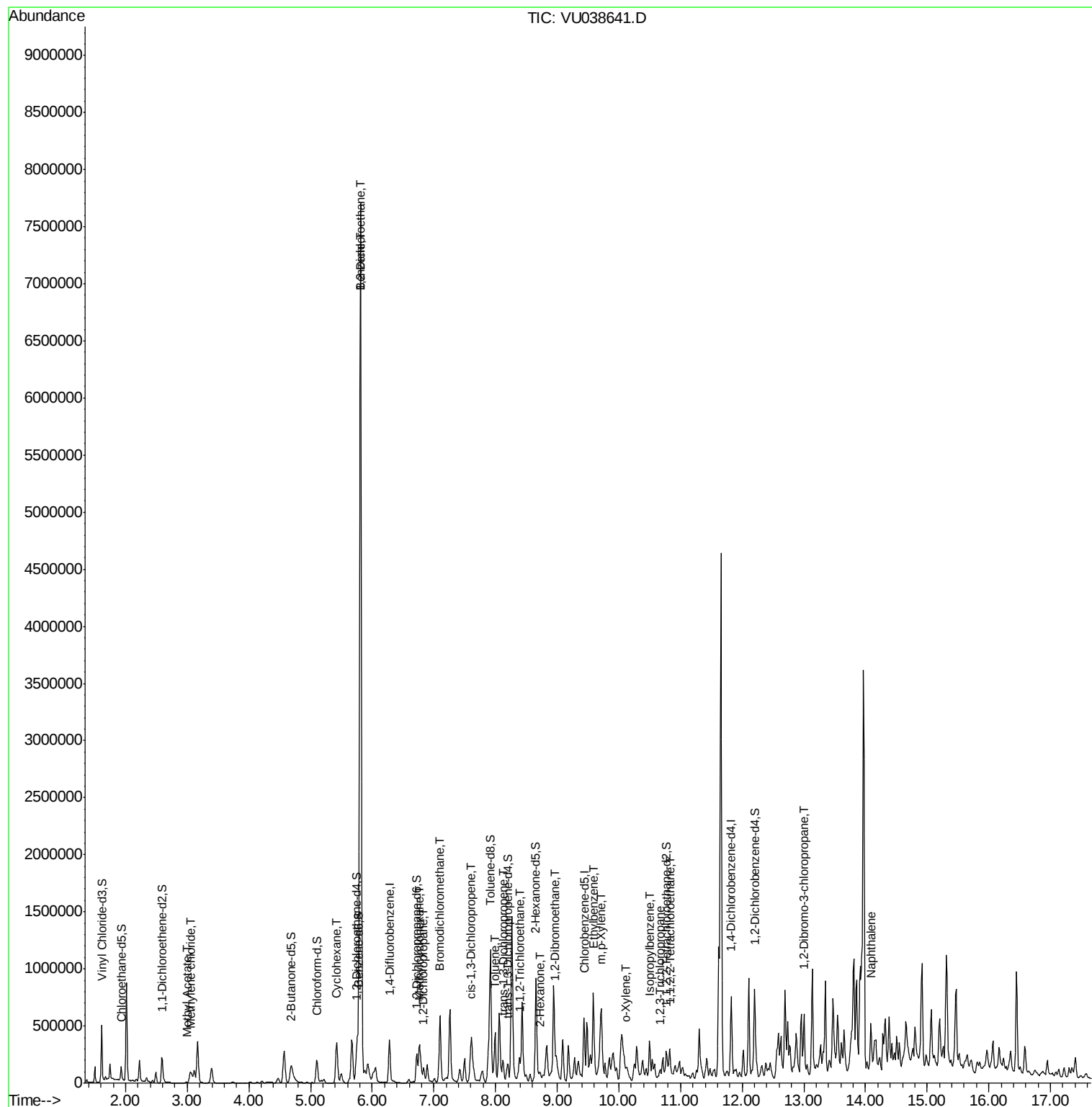
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
56) Isopropylbenzene	10.50	105	217492	2.207	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.82	83	23430	1.118	ug/L #	43
59) 1,2,3-Trichloropropane	10.66	75	2547	0.156	ug/L #	43
66) 1,2-Dibromo-3-chloropropan	13.01	75	2768	0.763	ug/L #	16
69) Naphthalene	14.09	128	52940	0.816	ug/L #	10

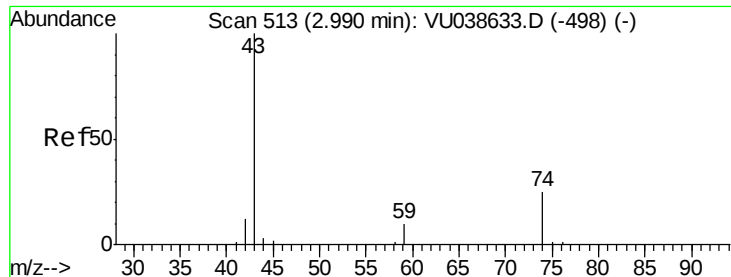
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#15

Methyl Acetate

Concen: 0.307 ug/L

RT: 2.99 min Scan# 513

Delta R.T. 0.00 min

Lab File: VU038641.D

Acq: 07 Jun 2020 01:44

Instrument :

MSVOA_U

ClientSampleId :

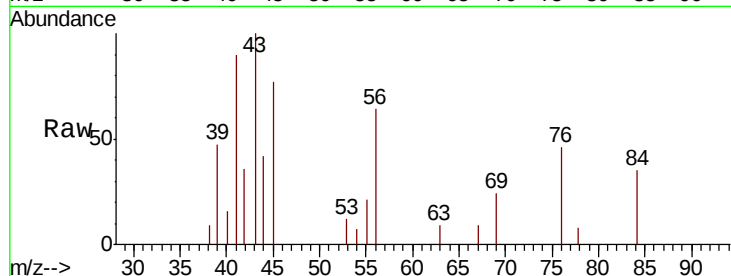
F9D05

Tot Ion: 43 Resp: 2970

Ion Ratio Lower Upper

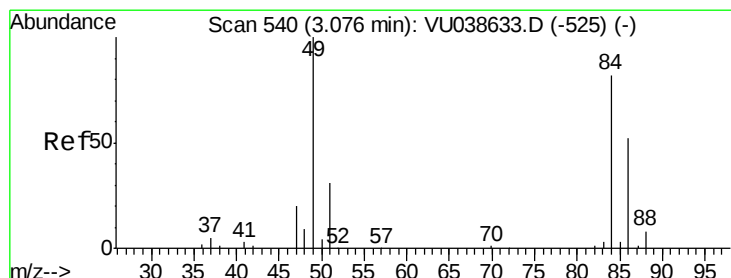
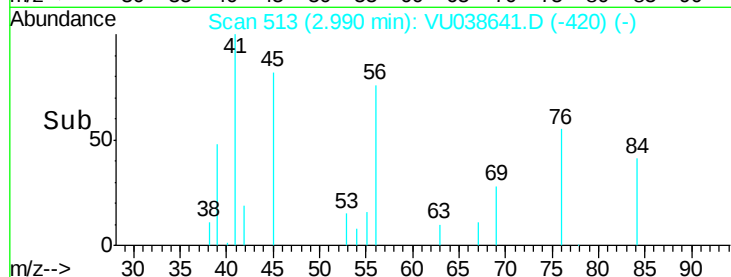
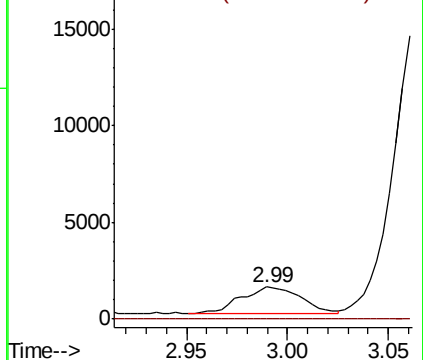
43 100

74 0.0 19.2 28.8#



Abundance Ion 43.05 (42.75 to 43.75): VU038641.D (-420) (-)

Ion 74.05 (73.75 to 74.75): VU038641.D (-420) (-)



#16

Methylene chloride

Concen: 0.068 ug/L

RT: 3.07 min Scan# 538

Delta R.T. -0.01 min

Lab File: VU038641.D

Acq: 07 Jun 2020 01:44

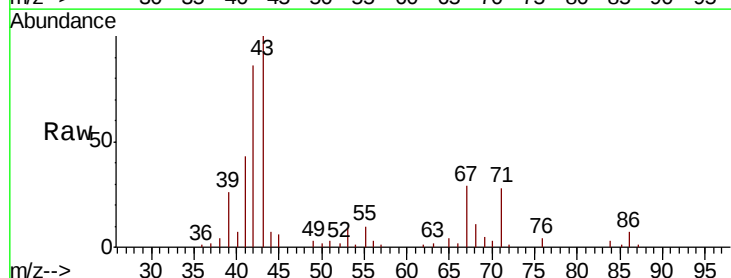
Tgt Ion: 84 Resp: 1464

Ion Ratio Lower Upper

84 100

86 219.2 45.0 83.6#

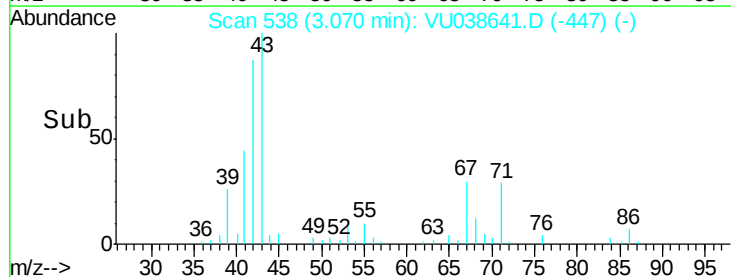
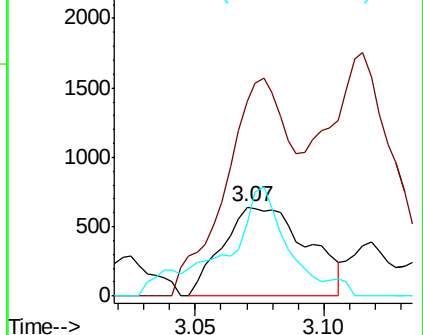
49 81.9 85.5 158.9#

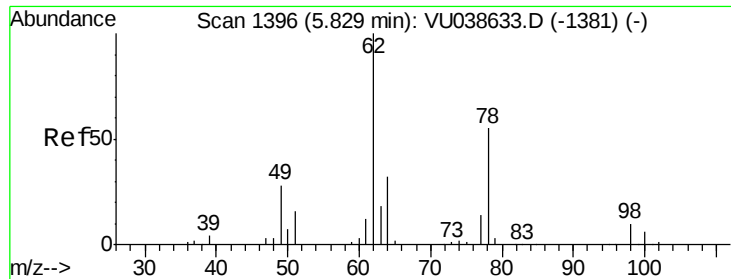


Abundance Ion 84.05 (83.75 to 84.75): VU038641.D (-447) (-)

Ion 86.00 (85.70 to 86.70): VU038641.D (-447) (-)

Ion 49.10 (48.80 to 49.80): VU038641.D (-447) (-)

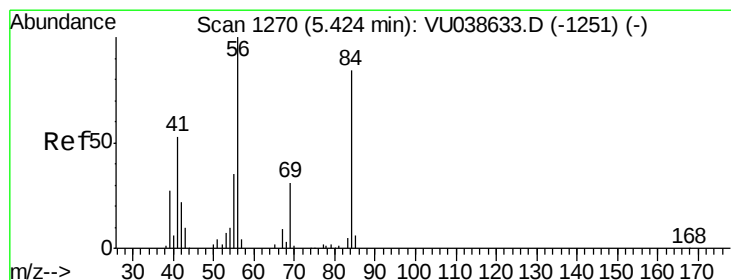
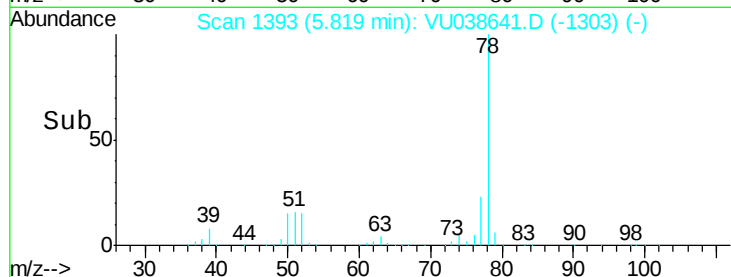
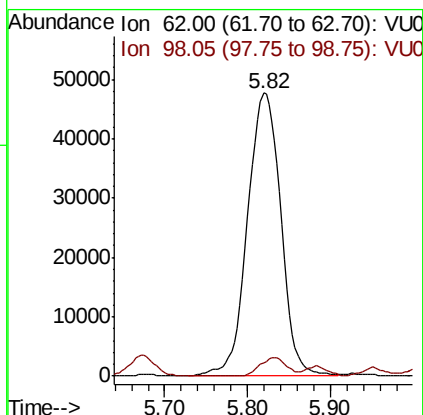
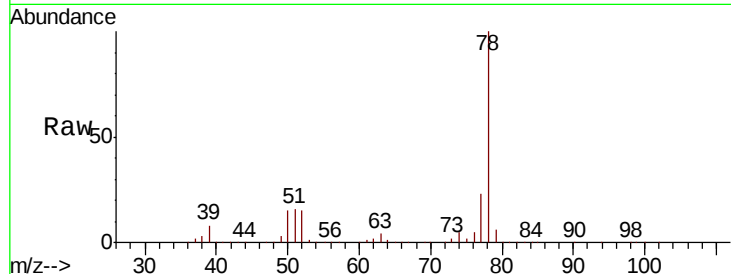




#27
 1,2-Dichloroethane
 Concen: 5.128 ug/L
 RT: 5.82 min Scan# 1393
 Delta R.T. -0.01 min
 Lab File: VU038641.D
 Acq: 07 Jun 2020 01:44

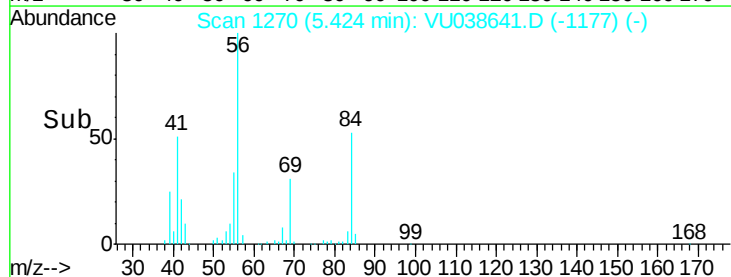
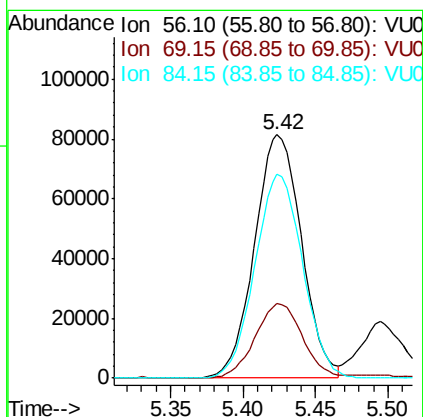
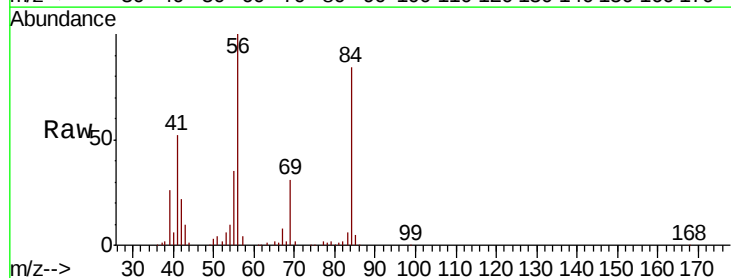
Instrument :
 MSVOA_U
 ClientSampleId :
 F9D05

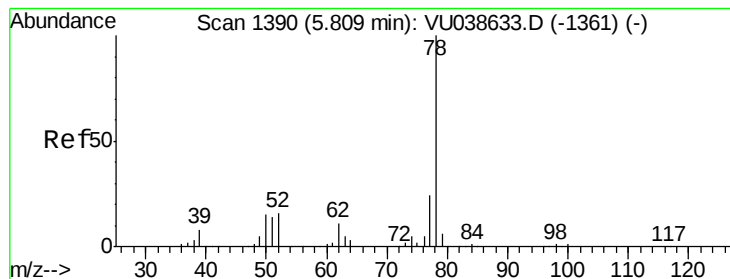
Tot Ion: 62 Resp: 133882
 Ion Ratio Lower Upper
 62 100
 98 4.5 7.4 11.2#



#30
 Cyclohexane
 Concen: 5.308 ug/L
 RT: 5.42 min Scan# 1270
 Delta R.T. 0.00 min
 Lab File: VU038641.D
 Acq: 07 Jun 2020 01:44

Tgt Ion: 56 Resp: 183519
 Ion Ratio Lower Upper
 56 100
 69 30.9 24.2 36.4
 84 85.1 70.8 106.2





#33

Benzene

Concen: 83.119 ug/L

RT: 5.81 min Scan# 1390

Delta R.T. 0.00 min

Lab File: VU038641.D

Acq: 07 Jun 2020 01:44

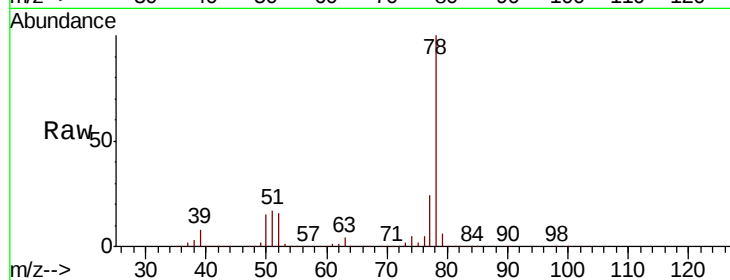
Instrument :

MSVOA_U

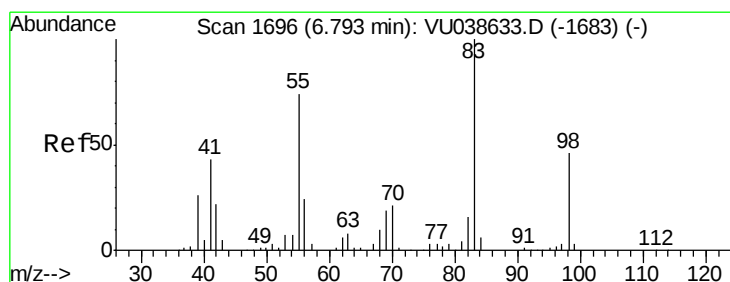
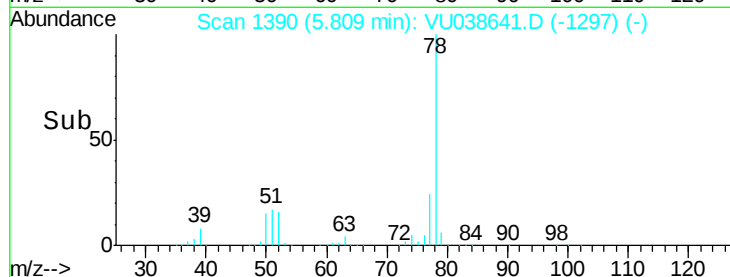
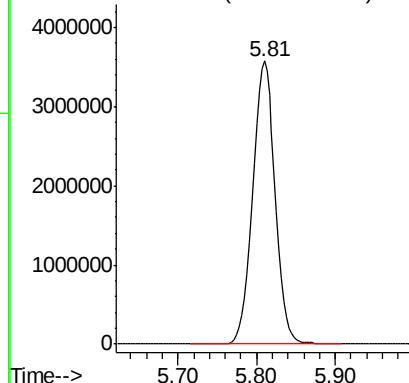
ClientSampleId :

F9D05

Tgt Ion: 78 Resp: 7222311



Abundance Ion 78.10 (77.80 to 78.80): VU0



#35

Methylcyclohexane

Concen: 0.933 ug/L

RT: 6.77 min Scan# 1689

Delta R.T. -0.02 min

Lab File: VU038641.D

Acq: 07 Jun 2020 01:44

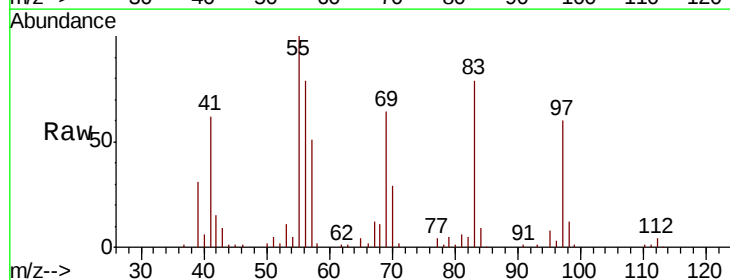
Tgt Ion: 83 Resp: 32571

Ion Ratio Lower Upper

83 100

55 416.0 63.4 95.2#

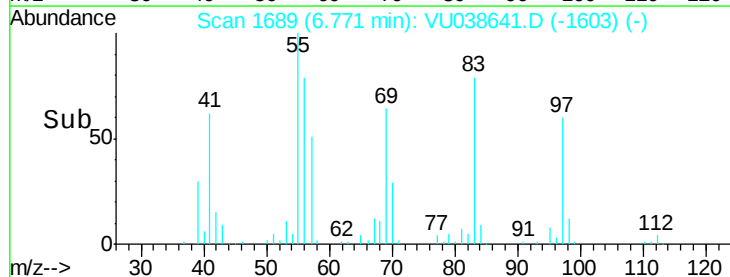
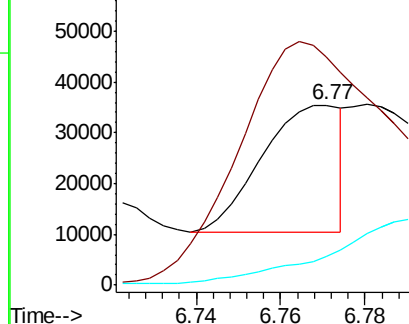
98 91.7 39.0 58.4#

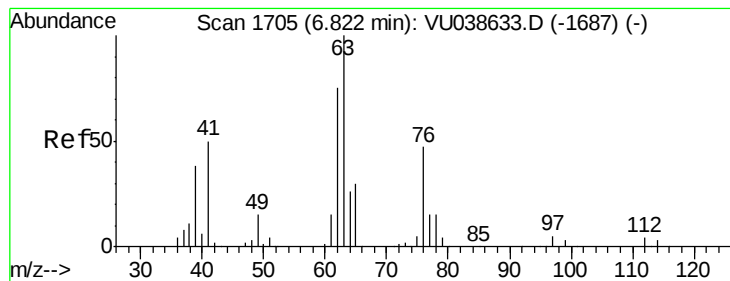


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0





#37

1,2-Dichloropropane

Concen: 0.133 ug/L

RT: 6.82 min Scan# 1703

Delta R.T. -0.01 min

Lab File: VU038641.D

Acq: 07 Jun 2020 01:44

Instrument :

MSVOA_U

ClientSampleId :

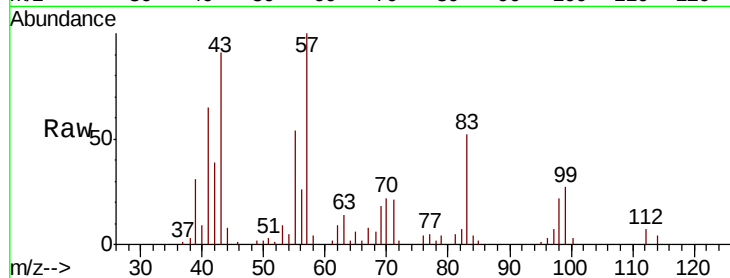
F9D05

Tot Ion: 63 Resp: 2902

Ion Ratio Lower Upper

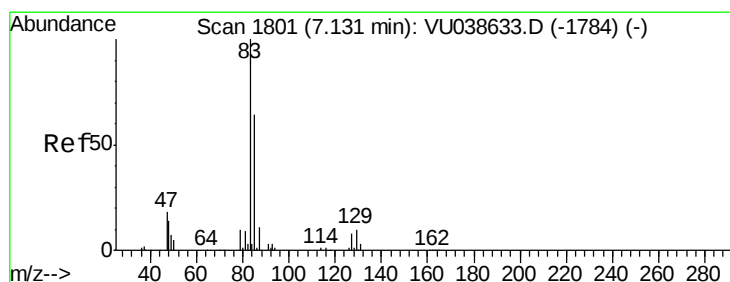
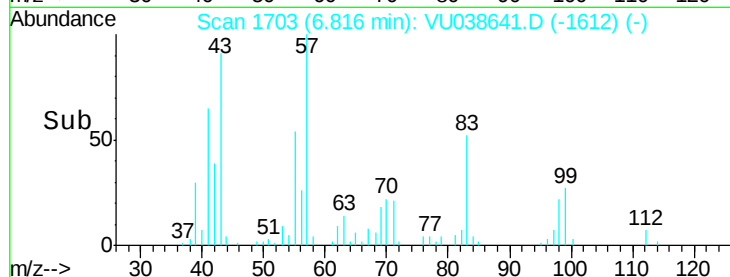
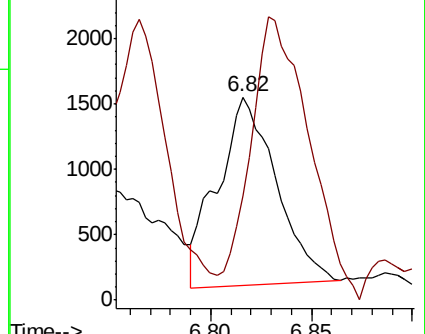
63 100

112 151.8 3.7 5.5#



Abundance Ion 63.10 (62.80 to 63.80): VU038633.D (-1687) (-)

Ion 112.10 (111.80 to 112.80): VU038633.D (-1687) (-)



#38

Bromodichloromethane

Concen: 0.561 ug/L

RT: 7.10 min Scan# 1791

Delta R.T. -0.03 min

Lab File: VU038641.D

Acq: 07 Jun 2020 01:44

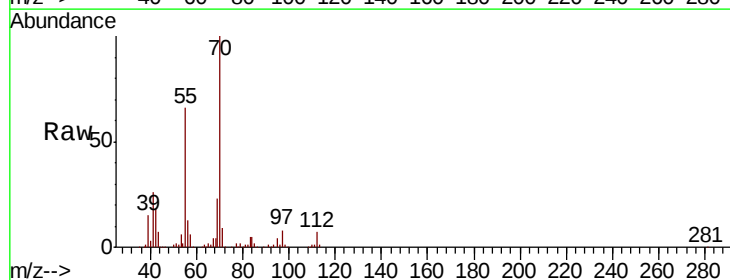
Tgt Ion: 83 Resp: 15232

Ion Ratio Lower Upper

83 100

85 43.1 44.7 83.1#

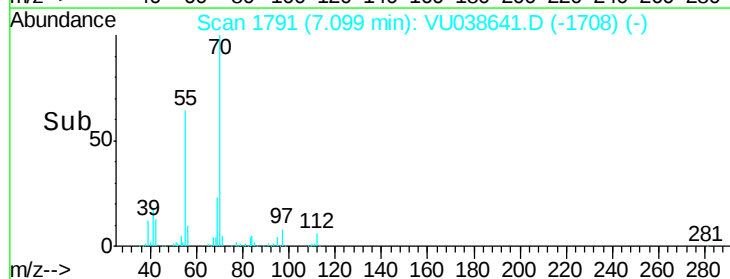
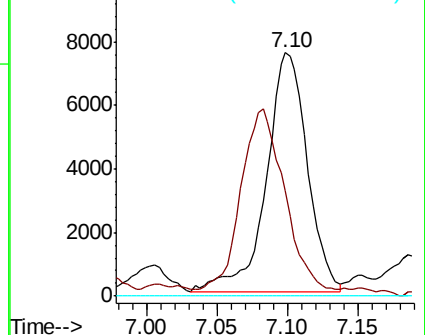
127 0.0 6.8 10.2#

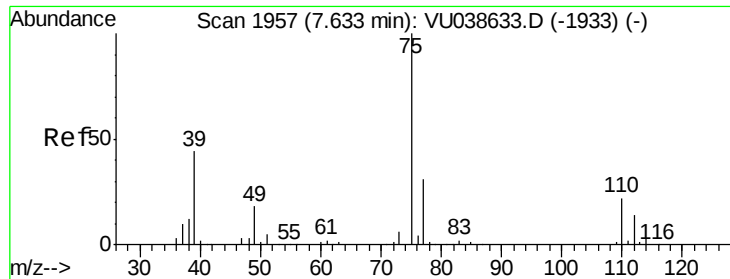


Abundance Ion 82.95 (82.65 to 83.65): VU038633.D (-1784) (-)

Ion 85.00 (84.70 to 85.70): VU038633.D (-1784) (-)

Ion 126.90 (126.60 to 127.60): VU038633.D (-1784) (-)

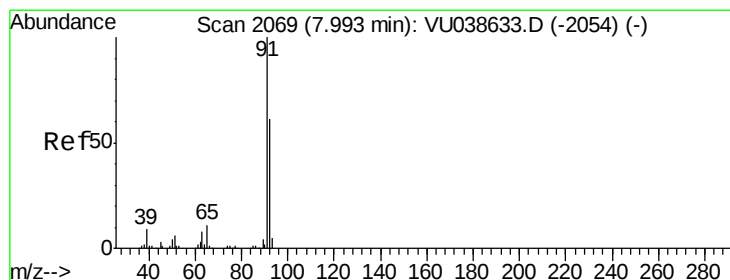
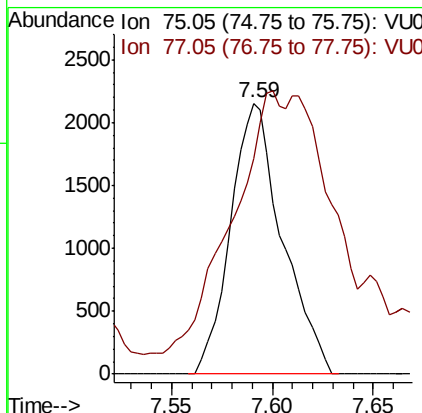
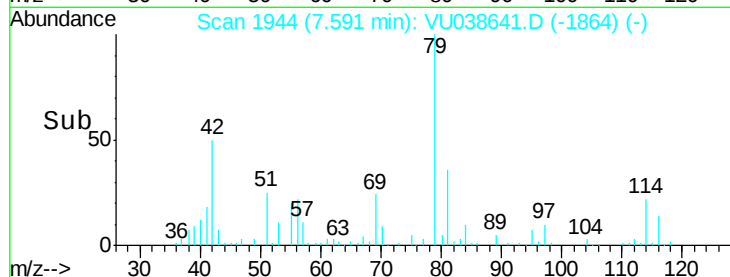
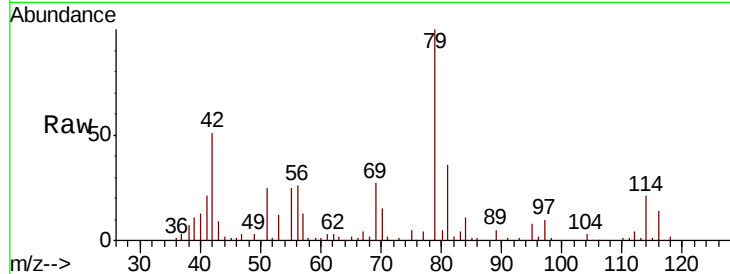




#39
 cis-1,3-Dichloropropene
 Concen: 0.119 ug/L
 RT: 7.59 min Scan# 1944
 Delta R.T. -0.04 min
 Lab File: VU038641.D
 Acq: 07 Jun 2020 01:44

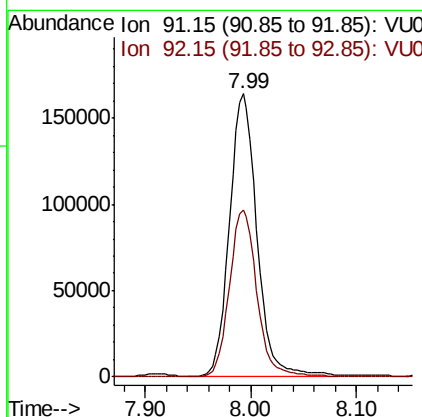
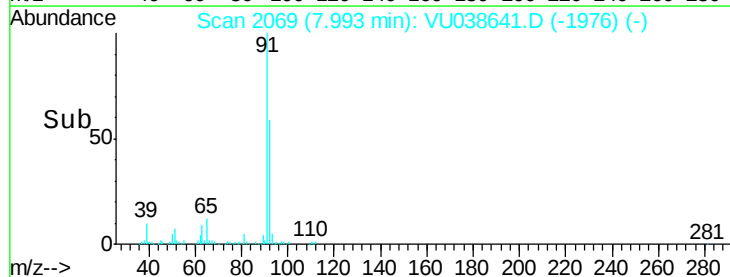
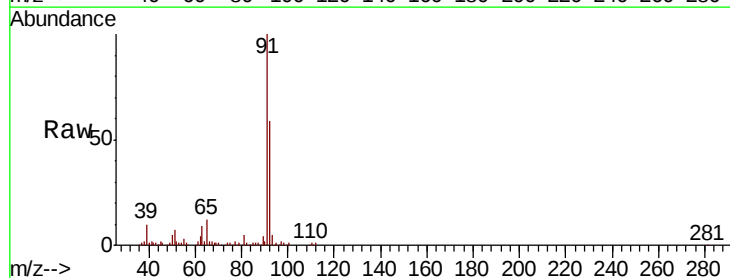
Instrument :
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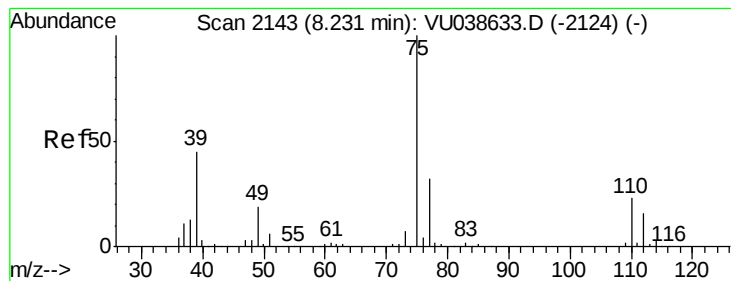
Tot Ion: 75 Resp: 3853
 Ion Ratio Lower Upper
 75 100
 77 79.5 21.9 40.7#



#42
 Toluene
 Concen: 3.231 ug/L
 RT: 7.99 min Scan# 2069
 Delta R.T. 0.00 min
 Lab File: VU038641.D
 Acq: 07 Jun 2020 01:44

Tgt Ion: 91 Resp: 294456
 Ion Ratio Lower Upper
 91 100
 92 59.1 43.0 79.8





#44

trans-1,3-Dichloropropene

Concen: 0.240 ug/L

RT: 8.13 min Scan# 2111

Delta R.T. -0.10 min

Lab File: VU038641.D

Acq: 07 Jun 2020 01:44

Instrument :

MSVOA_U

ClientSampleId :

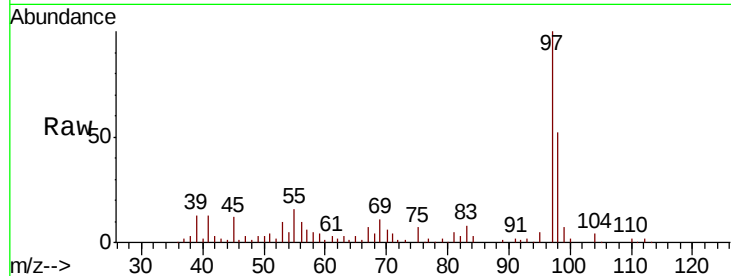
F9D05

Tot Ion: 75 Resp: 6847

Ion Ratio Lower Upper

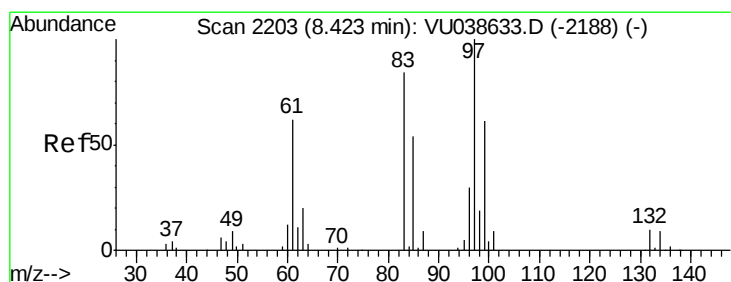
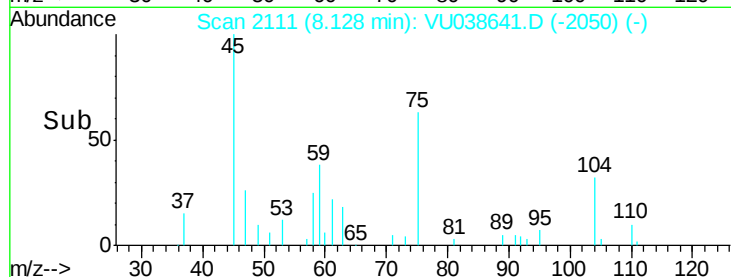
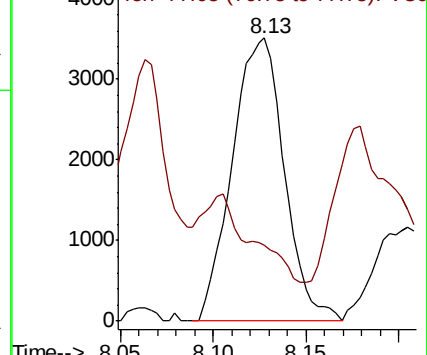
75 100

77 26.8 22.1 41.1



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0



#45

1,1,2-Trichloroethane

Concen: 5.489 ug/L

RT: 8.39 min Scan# 2193

Delta R.T. -0.03 min

Lab File: VU038641.D

Acq: 07 Jun 2020 01:44

Tgt Ion: 97 Resp: 90550

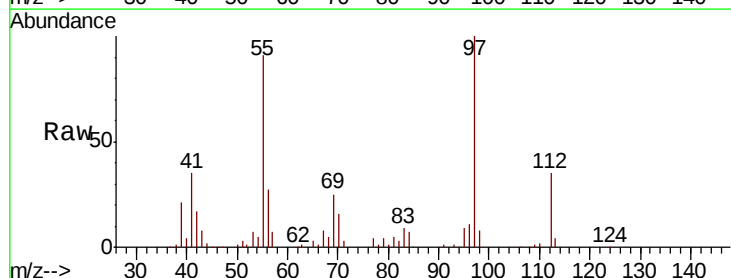
Ion Ratio Lower Upper

97 100

99 0.0 42.1 78.1#

83 9.2 58.8 109.2#

85 0.3 37.4 69.4#

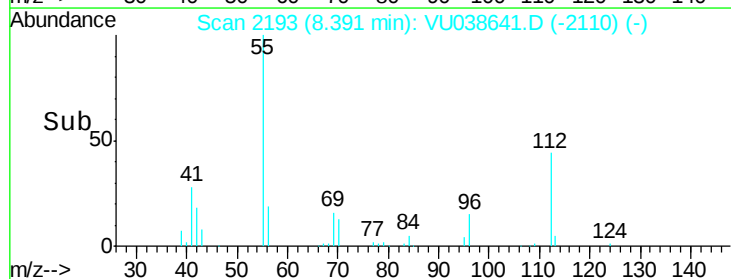
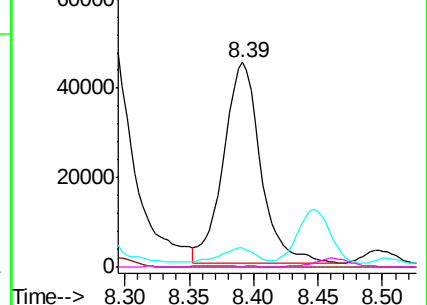


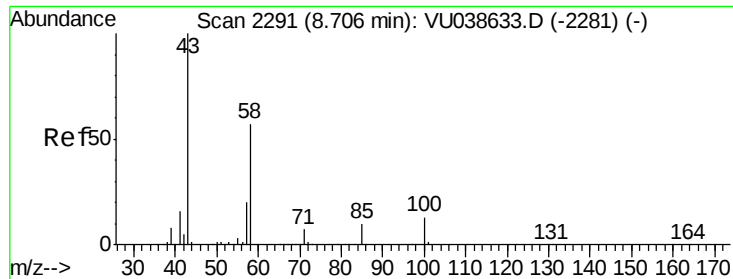
Abundance Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

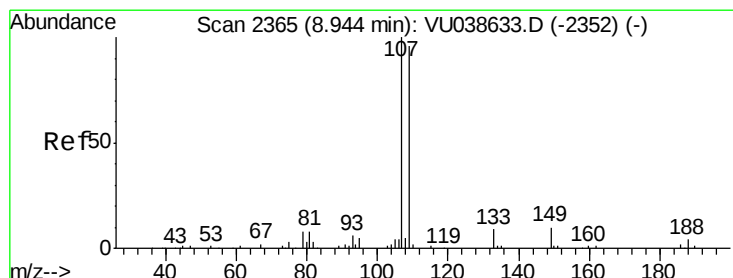
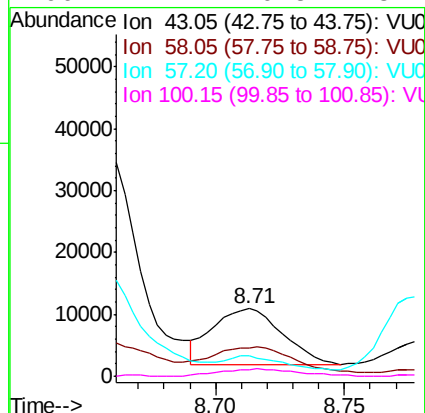
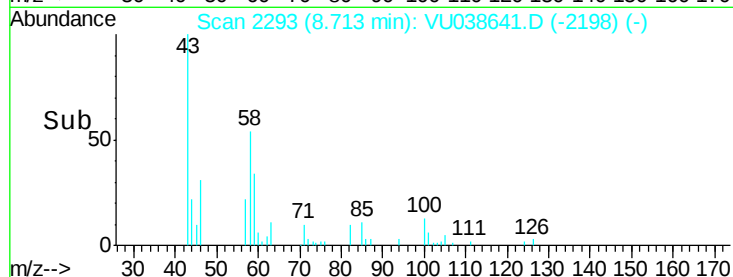
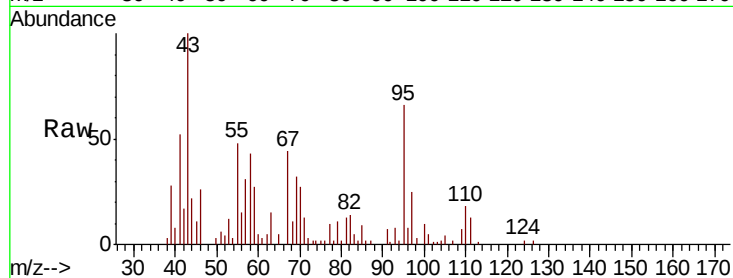




#48
2-Hexanone
Concen: 1.421 ug/L
RT: 8.71 min Scan# 2293
Delta R.T. 0.01 min
Lab File: VU038641.D
Acq: 07 Jun 2020 01:44

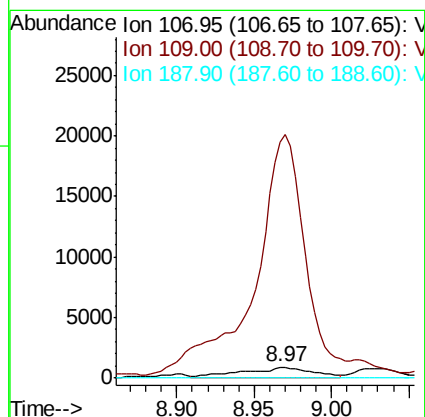
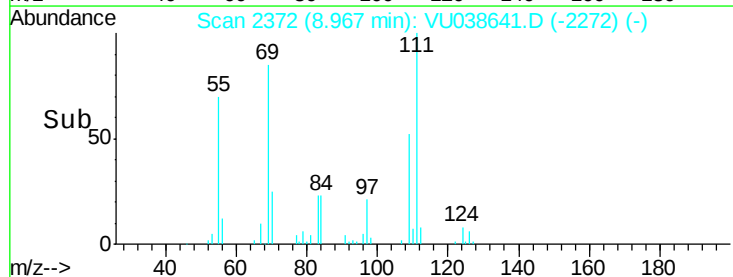
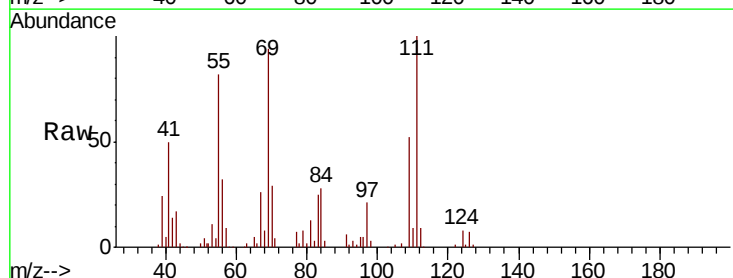
Instrument :
MSVOA_U
ClientSampleId :
F9D05

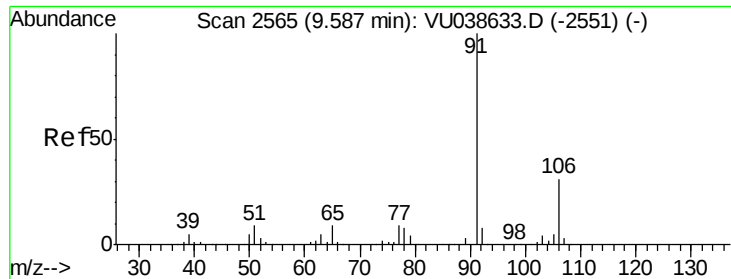
Tot Ion: 43 Resp: 16833
Ion Ratio Lower Upper
43 100
58 65.4 45.4 68.0
57 20.7 15.9 23.9
100 14.7 10.5 15.7



#50
1,2-Dibromoethane
Concen: 0.163 ug/L
RT: 8.97 min Scan# 2372
Delta R.T. 0.02 min
Lab File: VU038641.D
Acq: 07 Jun 2020 01:44

Tgt Ion: 107 Resp: 2568
Ion Ratio Lower Upper
107 100
109 2212.5 67.0 124.4#
188 0.0 3.0 4.4#

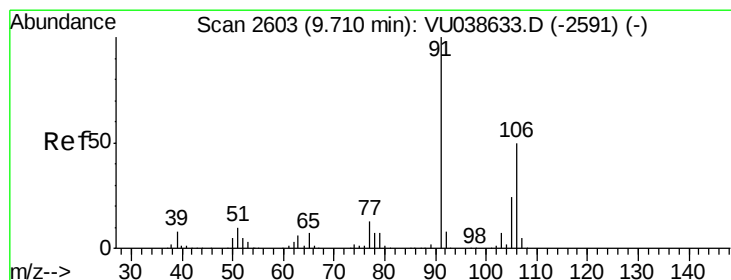
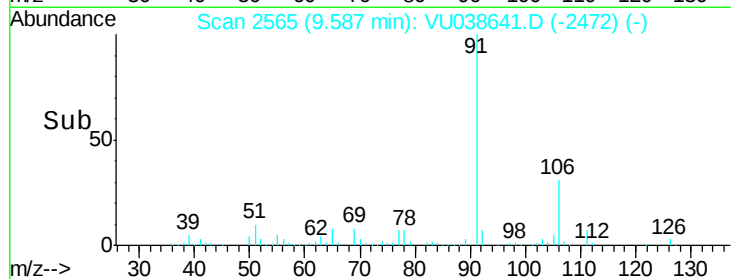
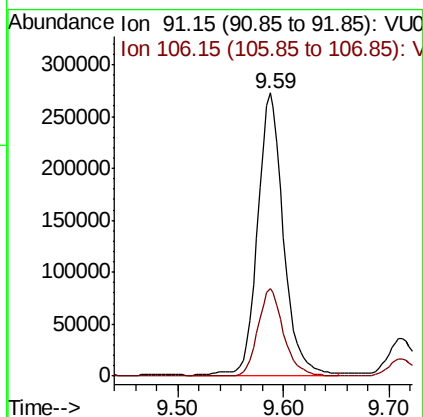
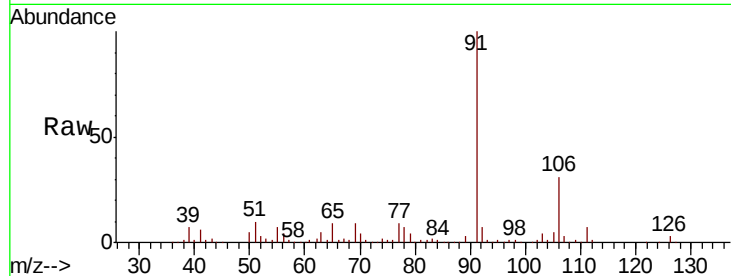




#52
Ethylbenzene
Concen: 4.570 ug/L
RT: 9.59 min Scan# 2565
Delta R.T. 0.00 min
Lab File: VU038641.D
Acq: 07 Jun 2020 01:44

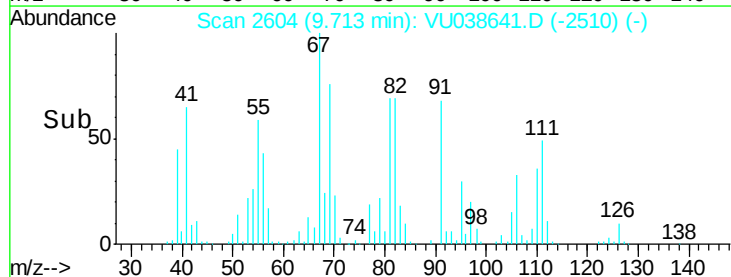
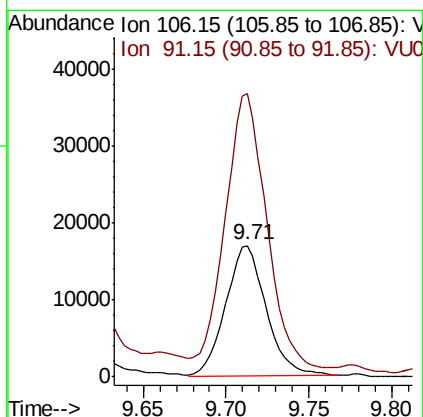
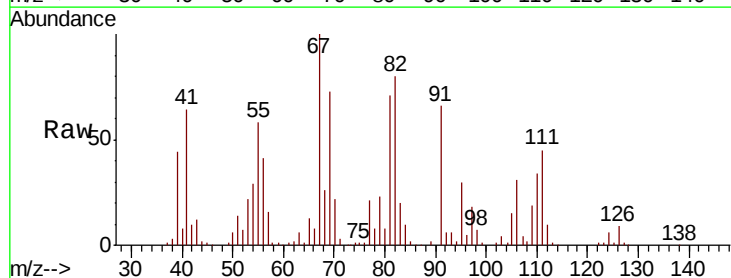
Instrument :
MSVOA_U
ClientSampleId :
F9D05

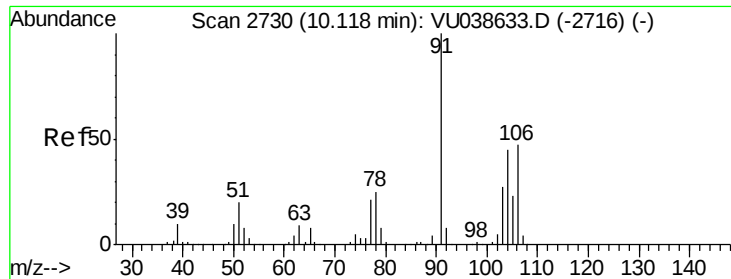
Tot Ion: 91 Resp: 463393
Ion Ratio Lower Upper
91 100
106 31.0 21.7 40.3



#53
m,p-Xylene
Concen: 0.740 ug/L
RT: 9.71 min Scan# 2604
Delta R.T. 0.00 min
Lab File: VU038641.D
Acq: 07 Jun 2020 01:44

Tgt Ion: 106 Resp: 28853
Ion Ratio Lower Upper
106 100
91 215.1 138.1 256.5

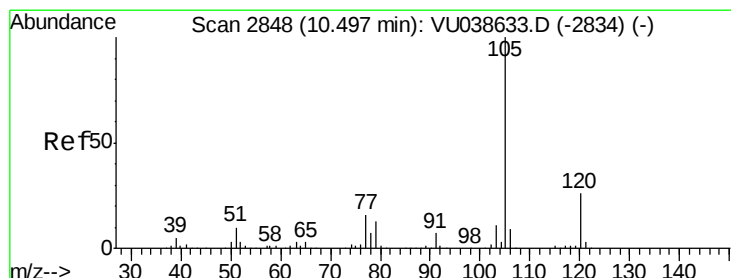
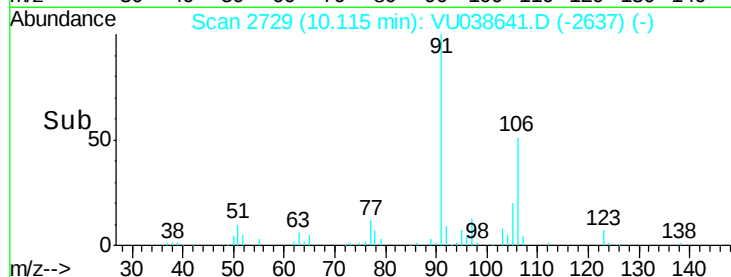
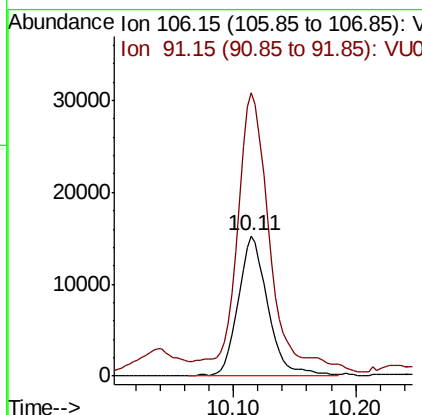
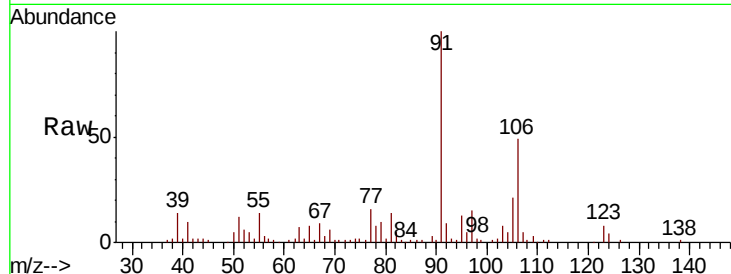




#54
o-Xylene
Concen: 0.687 ug/L
RT: 10.11 min Scan# 2729
Delta R.T. -0.00 min
Lab File: VU038641.D
Acq: 07 Jun 2020 01:44

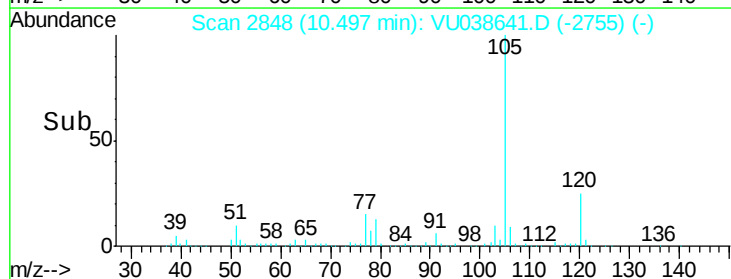
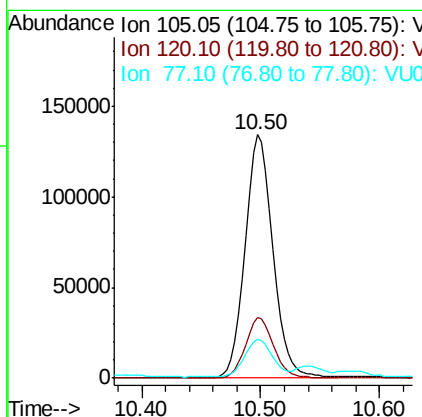
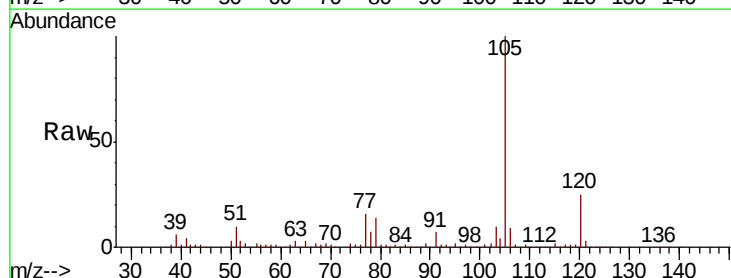
Instrument :
MSVOA_U
ClientSampled :
F9D05

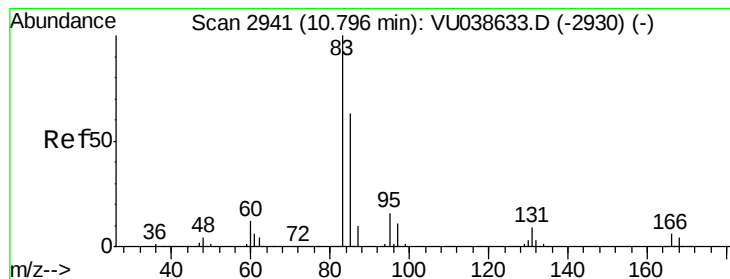
Tot Ion:106 Resp: 25719
Ion Ratio Lower Upper
106 100
91 202.2 150.6 279.8



#56
Isopropylbenzene
Concen: 2.207 ug/L
RT: 10.50 min Scan# 2848
Delta R.T. 0.00 min
Lab File: VU038641.D
Acq: 07 Jun 2020 01:44

Tgt Ion:105 Resp: 217492
Ion Ratio Lower Upper
105 100
120 25.2 20.7 31.1
77 15.0 12.5 18.7





#58

1,1,2,2-Tetrachloroethane

Concen: 1.118 ug/L

RT: 10.82 min Scan# 2949

Delta R.T. 0.03 min

Lab File: VU038641.D

Acq: 07 Jun 2020 01:44

Instrument :

MSVOA_U

ClientSampleId :

F9D05

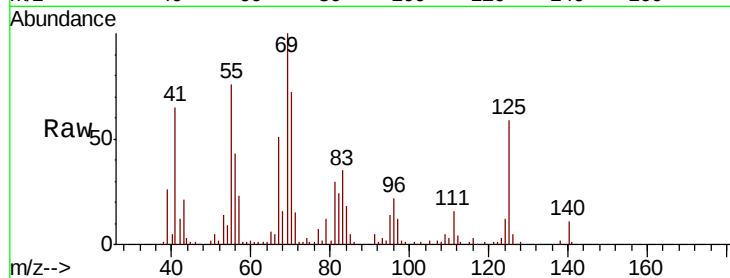
Tot Ion: 83 Resp: 23430

Ion Ratio Lower Upper

83 100

85 15.2 44.2 82.0#

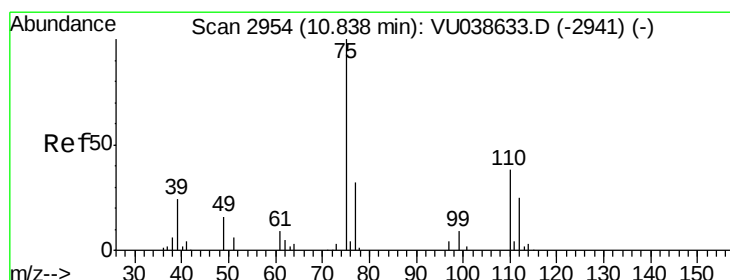
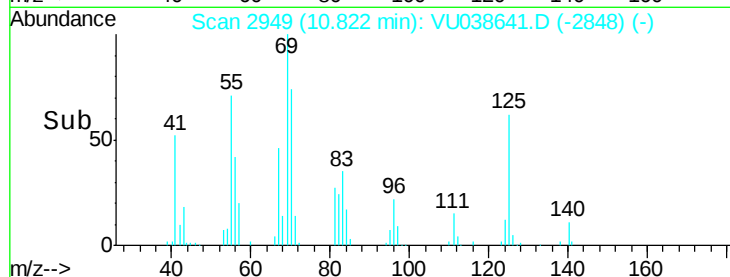
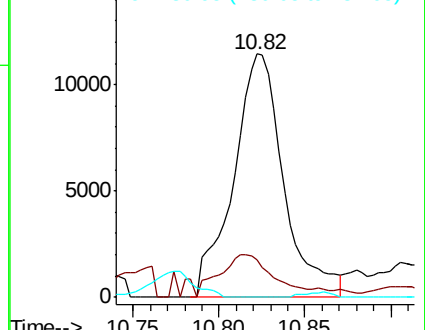
131 0.0 8.1 12.1#



Abundance Ion 82.95 (82.65 to 83.65): VU038641.D (-2848) (-)

Ion 85.00 (84.70 to 85.70): VU038641.D (-2848) (-)

Ion 130.95 (130.65 to 131.65): VU038641.D (-2848) (-)



#59

1,2,3-Trichloropropane

Concen: 0.156 ug/L

RT: 10.66 min Scan# 2899

Delta R.T. -0.18 min

Lab File: VU038641.D

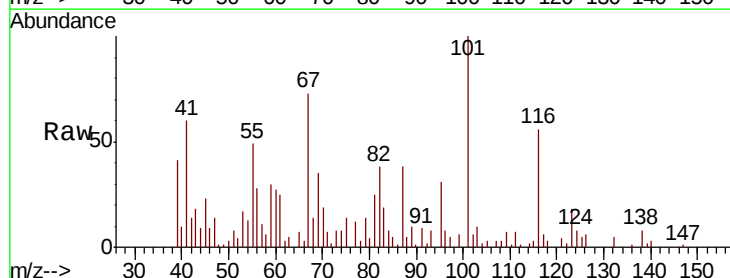
Acq: 07 Jun 2020 01:44

Tgt Ion: 75 Resp: 2547

Ion Ratio Lower Upper

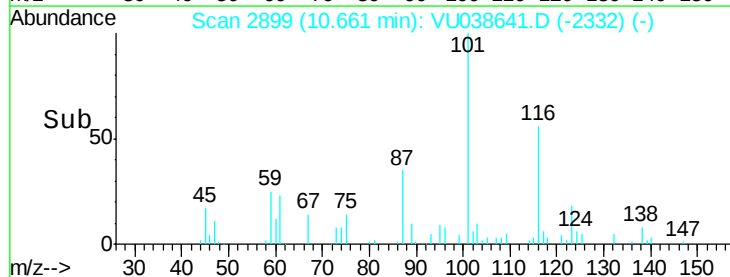
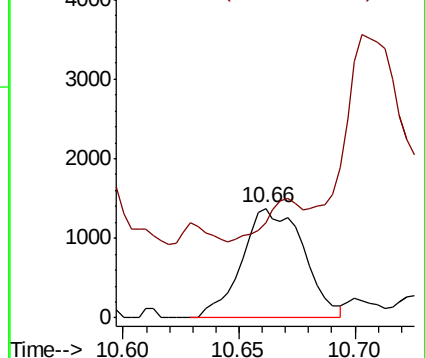
75 100

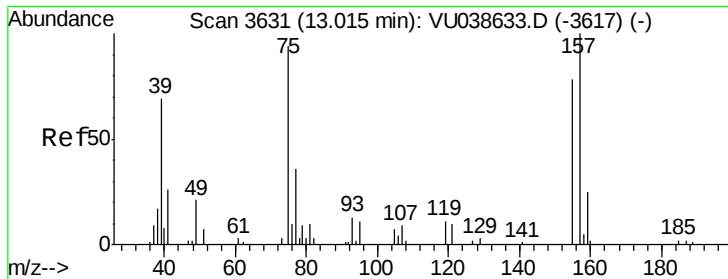
77 0.0 25.4 38.2#



Abundance Ion 75.00 (74.70 to 75.70): VU038641.D (-2332) (-)

Ion 77.00 (76.70 to 77.70): VU038641.D (-2332) (-)

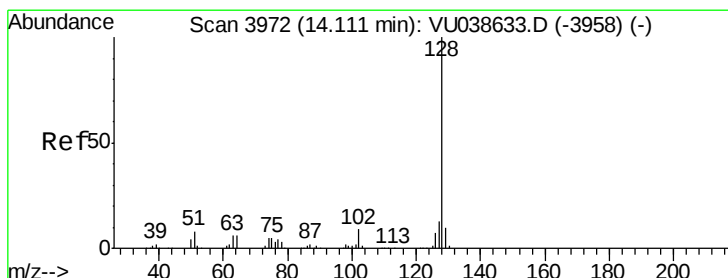
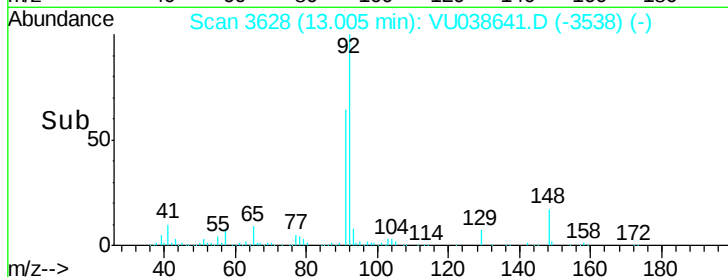
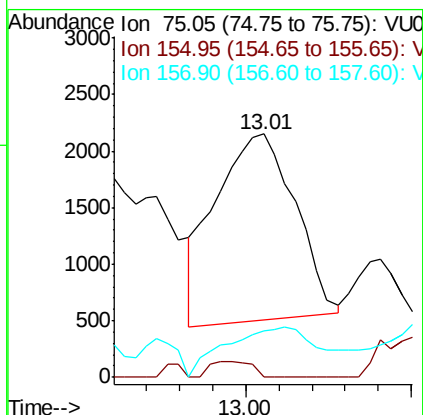
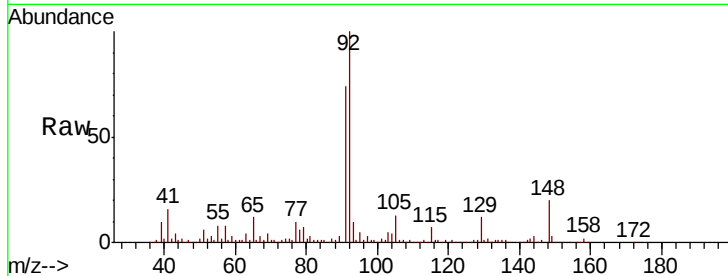




#66
 1,2-Dibromo-3-chloropropane
 Concen: 0.763 ug/L
 RT: 13.01 min Scan# 3628
 Delta R.T. -0.01 min
 Lab File: VU038641.D
 Acq: 07 Jun 2020 01:44

Instrument :
 MSVOA_U
 ClientSampleId :
 F9D05

Tot Ion: 75 Resp: 2768
 Ion Ratio Lower Upper
 75 100
 155 0.0 59.6 89.4#
 157 18.9 79.8 119.6#



#69
 Naphthalene
 Concen: 0.816 ug/L
 RT: 14.09 min Scan# 3965
 Delta R.T. -0.02 min
 Lab File: VU038641.D
 Acq: 07 Jun 2020 01:44

Tgt Ion:128 Resp: 52940
 Ion Ratio Lower Upper
 128 100
 129 58.9 8.9 13.3#
 127 35.9 10.2 15.4#

