

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052020\
 Data File : VU038252.D
 Acq On : 20 May 2020 17:01
 Operator : JC/MD
 Sample : L2724-06
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: May 21 01:17:08 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050720WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu May 21 01:14:05 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	336077	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	335087	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	167773	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	131854	4.29	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	85.80%
7) Chloroethane-d5	1.93	69	124624	4.69	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	93.80%
11) 1,1-Dichloroethene-d2	2.59	63	165850	3.23	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	64.60%
20) 2-Butanone-d5	4.67	46	402538	53.07	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	106.14%
24) Chloroform-d	5.10	84	216803	4.65	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	93.00%
26) 1,2-Dichloroethane-d4	5.74	65	129448	4.84	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.80%
32) Benzene-d6	5.76	84	462295	4.60	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.00%
36) 1,2-Dichloropropane-d6	6.72	67	153992	4.75	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	95.00%
41) Toluene-d8	7.92	98	420648	4.66	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	93.20%
43) trans-1,3-Dichloropropene-	8.20	79	57993	4.47	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	89.40%
46) 2-Hexanone-d5	8.65	63	305924	49.90	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	99.80%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	121408	4.75	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	95.00%
64) 1,2-Dichlorobenzene-d4	12.20	152	158185	4.84	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	96.80%

Target Compounds

					Ovalue
3) Chloromethane	1.51	50	16391	0.443 ug/L #	43
5) Vinyl chloride	1.62	62	4378	0.121 ug/L #	1
8) Chloroethane	1.95	64	173427	7.768 ug/L #	75
13) Acetone	2.67	43	18613	3.911 ug/L	96
14) Carbon disulfide	2.83	76	6066	0.073 ug/L	96
15) Methyl Acetate	3.11	43	135305	10.165 ug/L #	54
16) Methylene chloride	3.08	84	2134	0.078 ug/L #	57
17) Methyl tert-butyl Ether	3.40	73	13539	0.209 ug/L #	1
18) trans-1,2-Dichloroethene	3.38	96	3250	0.128 ug/L	92
27) 1,2-Dichloroethane	5.81	62	34956	1.068 ug/L #	73
30) Cyclohexane	5.42	56	73601	1.624 ug/L	99
33) Benzene	5.81	78	3724168	34.706 ug/L	100
35) Methylcyclohexane	6.79	83	60742	1.397 ug/L	92
38) Bromodichloromethane	7.18	83	7534	0.224 ug/L #	25
42) Toluene	7.99	91	109204	0.964 ug/L	98
48) 2-Hexanone	8.71	43	39102	2.643 ug/L #	85
51) Chlorobenzene	9.47	112	4313377	61.359 ug/L	99

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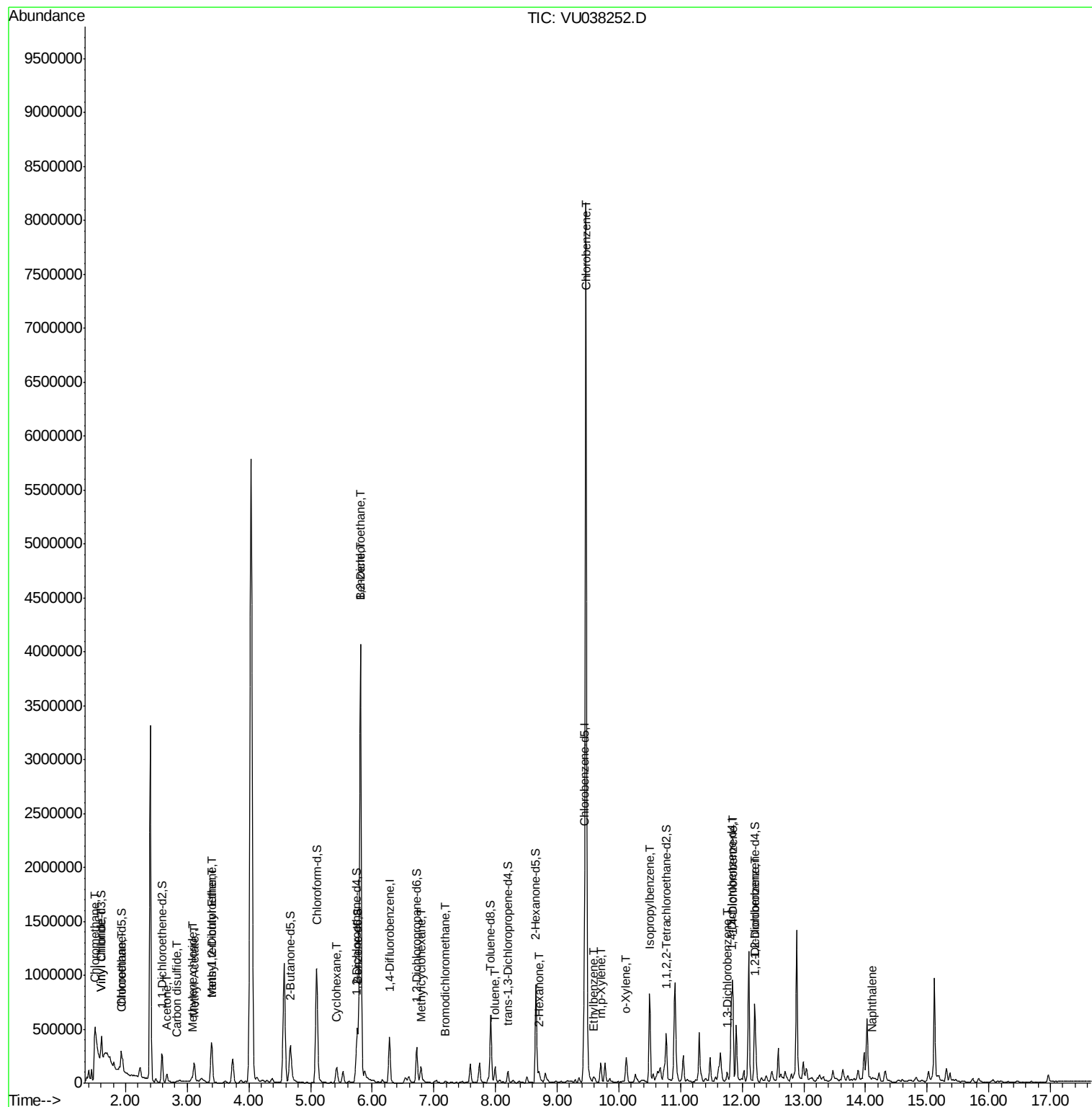
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
52) Ethylbenzene	9.59	91	28534	0.233	ug/L	99
53) m,p-Xylene	9.71	106	31807	0.676	ug/L	94
54) o-Xylene	10.11	106	41601	0.914	ug/L	94
56) Isopropylbenzene	10.50	105	499907	4.278	ug/L	99
62) 1,3-Dichlorobenzene	11.76	146	23355	0.428	ug/L	94
63) 1,4-Dichlorobenzene	11.85	146	333405	6.027	ug/L	98
65) 1,2-Dichlorobenzene	12.22	146	62075	1.182	ug/L	100
69) Naphthalene	14.11	128	18624	0.246	ug/L	99

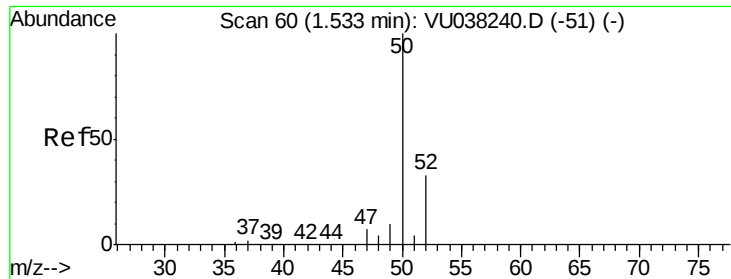
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.443 ug/L

RT: 1.51 min Scan# 52

Delta R.T. -0.03 min

Lab File: VU038252.D

Acq: 20 May 2020 17:01

Instrument :

MSVOA_U

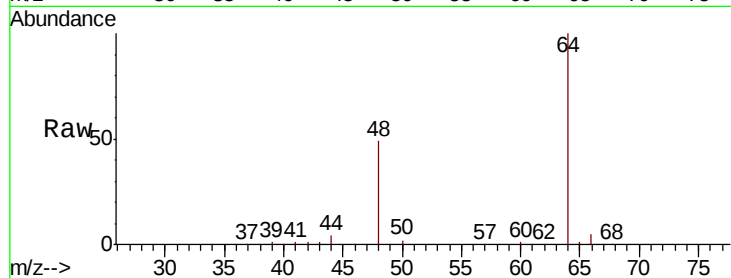
ClientSampleId :

Tot Ion: 50 Resp: 16391

Ion Ratio Lower Upper

50 100

52 0.0 22.5 41.7#



Abundance Ion 50.05 (49.75 to 50.75): VU038240.D (-51) (-)

Ion 52.05 (51.75 to 52.75): VU038240.D (-51) (-)

8000

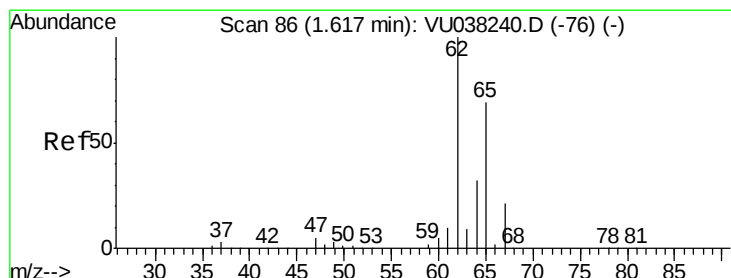
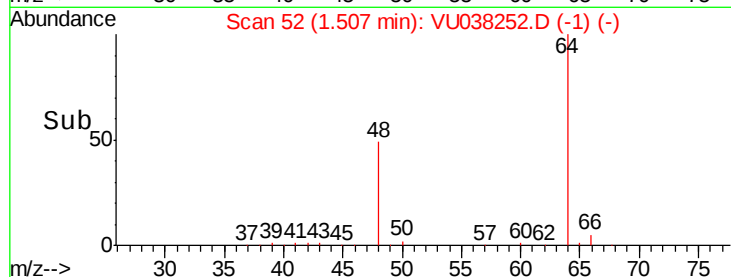
6000

4000

2000

0

Time-->



#5

Vinyl chloride

Concen: 0.121 ug/L

RT: 1.62 min Scan# 86

Delta R.T. -0.00 min

Lab File: VU038252.D

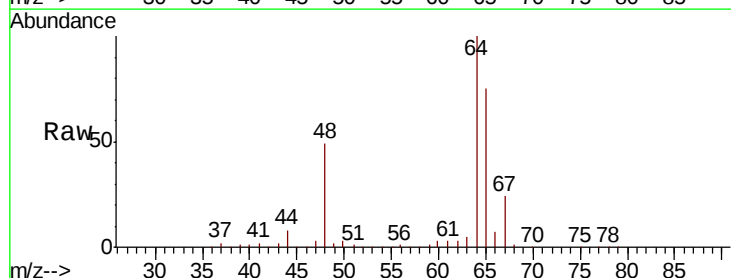
Acq: 20 May 2020 17:01

Tgt Ion: 62 Resp: 4378

Ion Ratio Lower Upper

62 100

64 3235.3 22.8 42.4#



Abundance Ion 62.00 (61.70 to 62.70): VU038240.D (-76) (-)

Ion 64.10 (63.80 to 64.80): VU038240.D (-76) (-)

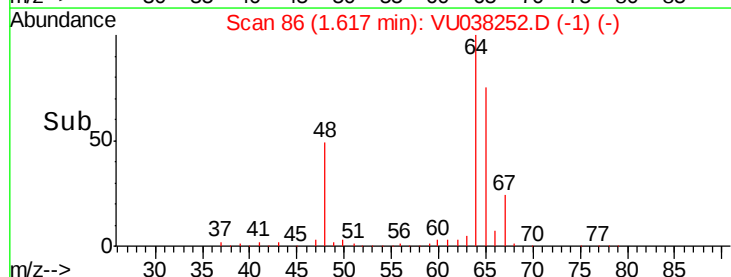
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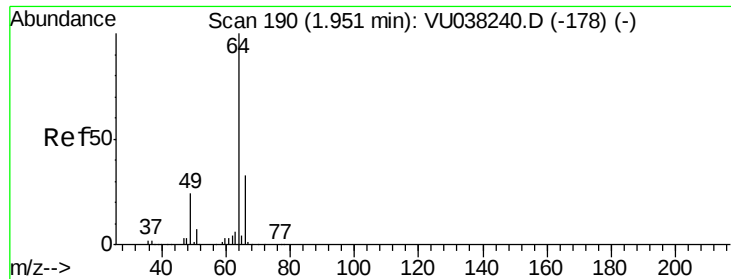
100000

50000

0

Time-->





#8

Chloroethane

Concen: 7.768 ug/L

RT: 1.95 min Scan# 190

Delta R.T. -0.00 min

Lab File: VU038252.D

Acq: 20 May 2020 17:01

Instrument :

MSVOA_U

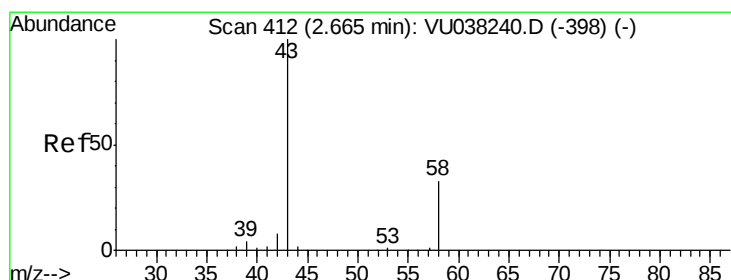
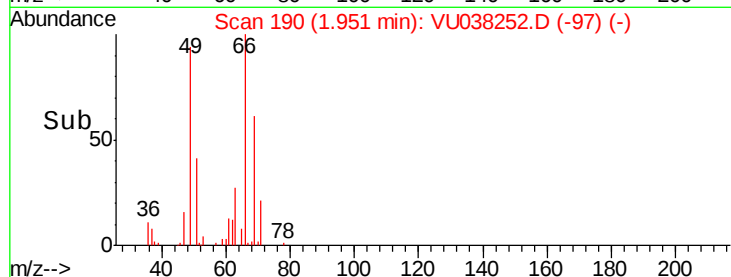
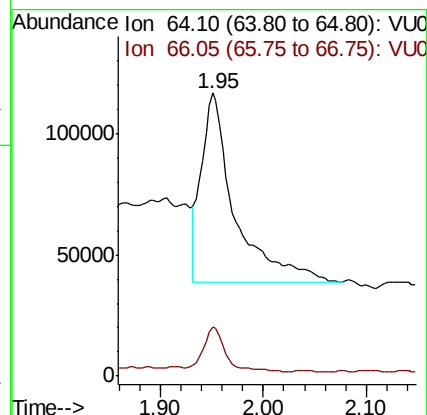
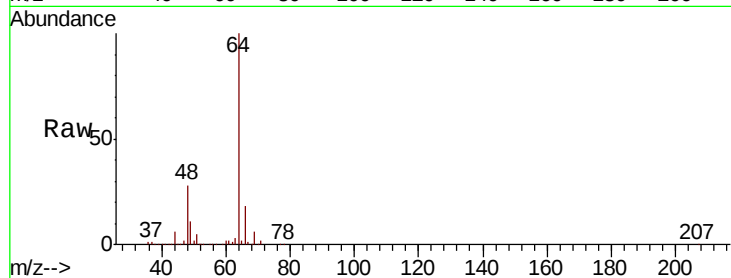
ClientSampleId :

Tot Ion: 64 Resp: 173427

Ion Ratio Lower Upper

64 100

66 17.5 21.8 40.4#



#13

Acetone

Concen: 3.911 ug/L

RT: 2.67 min Scan# 414

Delta R.T. 0.01 min

Lab File: VU038252.D

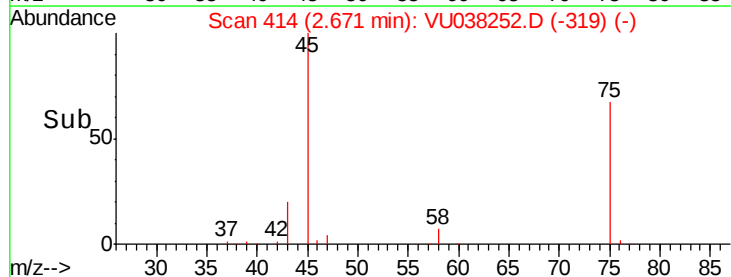
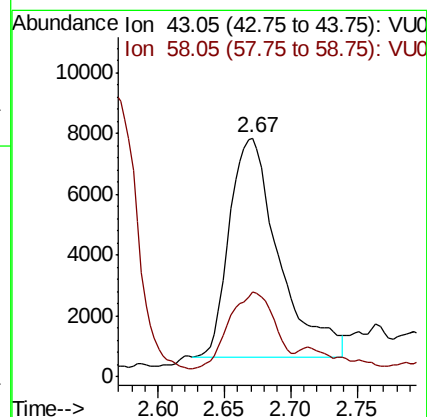
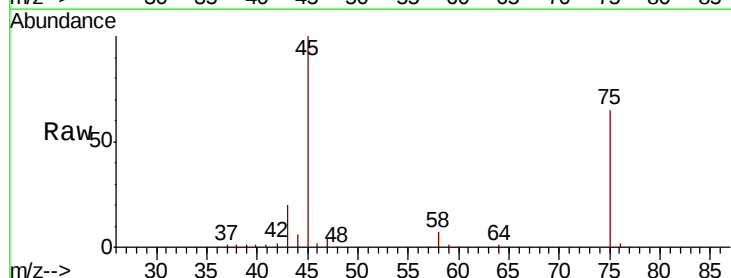
Acq: 20 May 2020 17:01

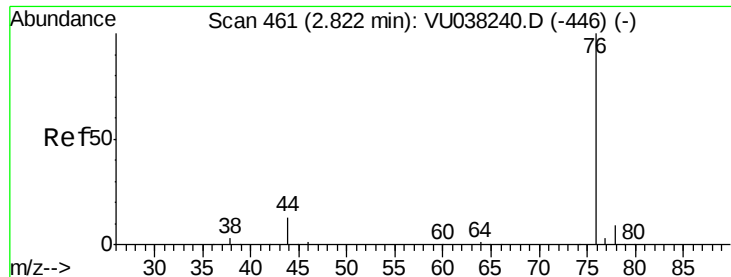
Tgt Ion: 43 Resp: 18613

Ion Ratio Lower Upper

43 100

58 33.9 0.0 63.6





#14

Carbon disulfide

Concen: 0.073 ug/L

RT: 2.83 min Scan# 462

Delta R.T. 0.00 min

Lab File: VU038252.D

Acq: 20 May 2020 17:01

Instrument :

MSVOA_U

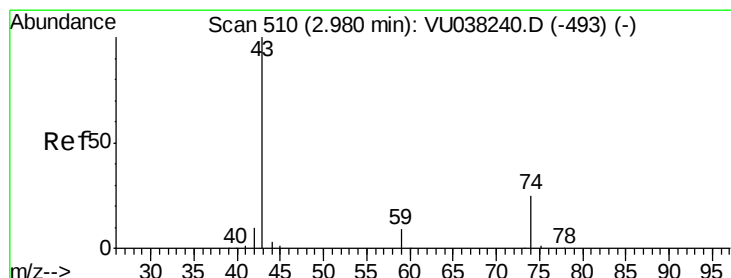
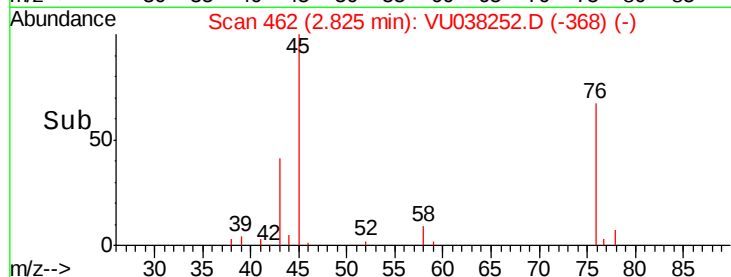
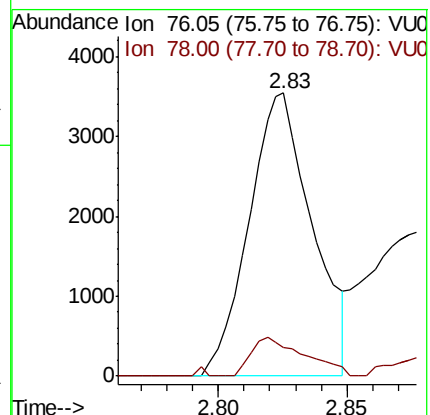
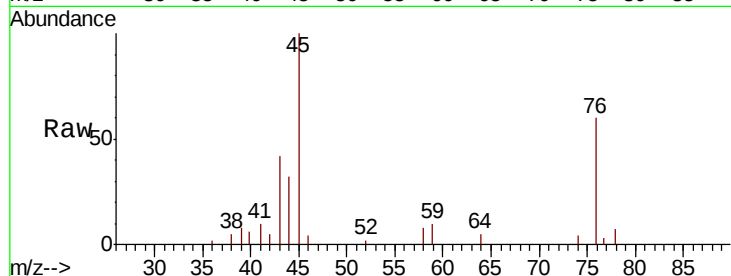
ClientSampleId :

Tot Ion: 76 Resp: 6066

Ion Ratio Lower Upper

76 100

78 10.3 7.1 10.7



#15

Methyl Acetate

Concen: 10.165 ug/L

RT: 3.11 min Scan# 552

Delta R.T. 0.13 min

Lab File: VU038252.D

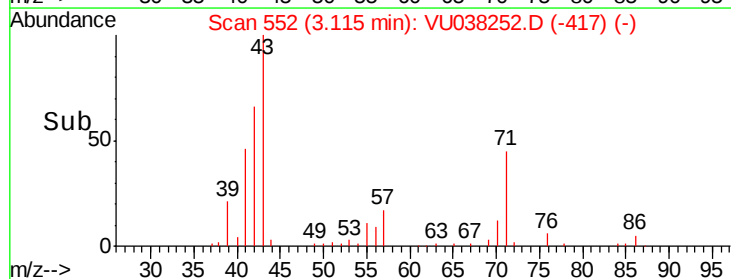
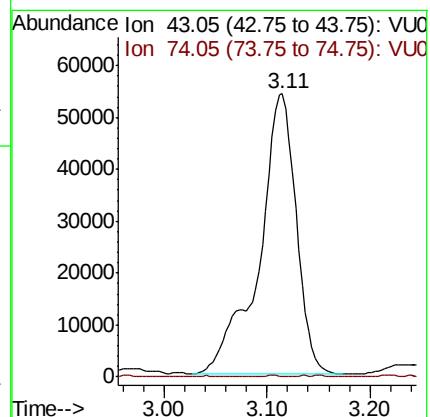
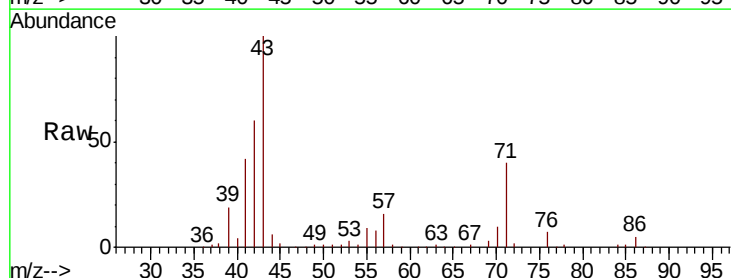
Acq: 20 May 2020 17:01

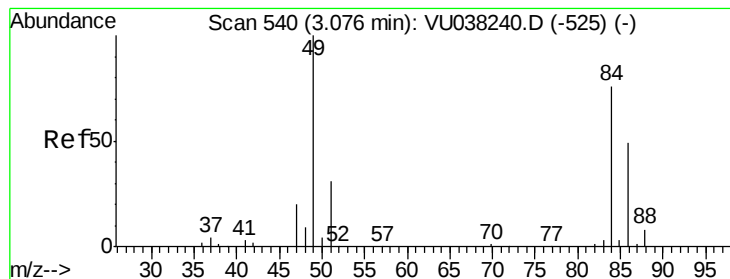
Tgt Ion: 43 Resp: 135305

Ion Ratio Lower Upper

43 100

74 0.2 18.0 27.0#





#16

Methylene chloride

Concen: 0.078 ug/L

RT: 3.08 min Scan# 540

Delta R.T. -0.00 min

Lab File: VU038252.D

Acq: 20 May 2020 17:01

Instrument :

MSVOA_U

ClientSampleId :

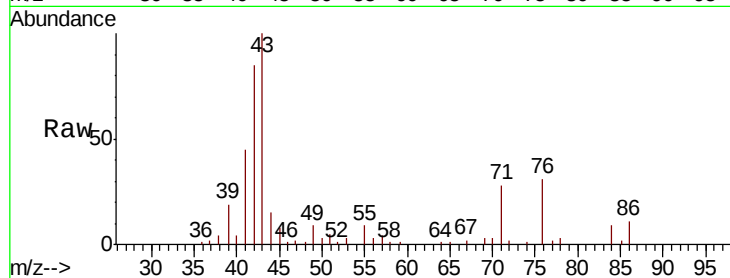
Tot Ion: 84 Resp: 2134

Ion Ratio Lower Upper

84 100

86 122.5 44.9 83.3#

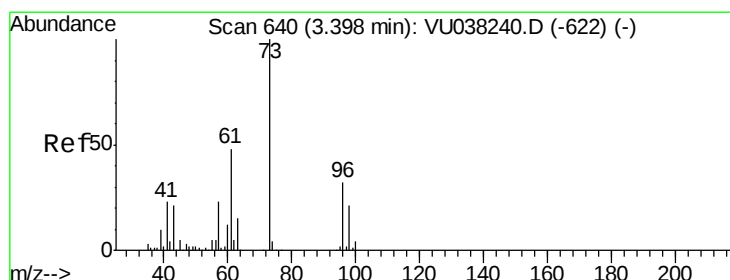
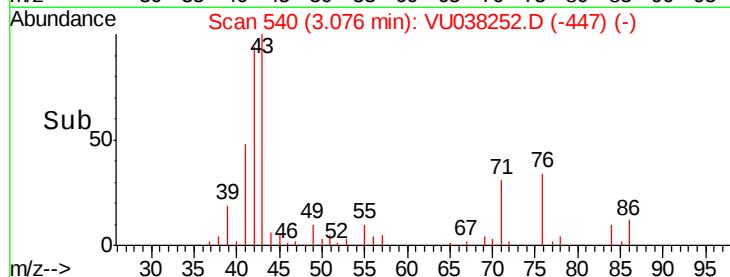
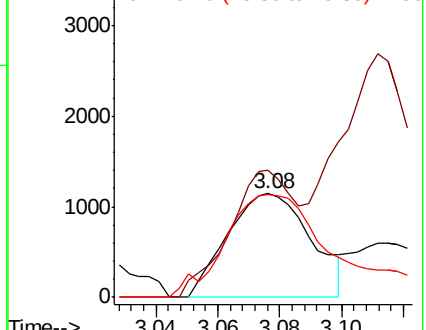
49 98.8 92.0 170.9



Abundance Ion 84.05 (83.75 to 84.75): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.10 (48.80 to 49.80): VU0



#17

Methyl tert-butyl Ether

Concen: 0.209 ug/L

RT: 3.40 min Scan# 641

Delta R.T. 0.00 min

Lab File: VU038252.D

Acq: 20 May 2020 17:01

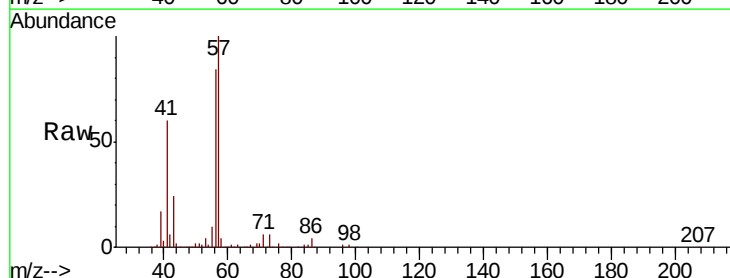
Tgt Ion: 73 Resp: 13539

Ion Ratio Lower Upper

73 100

43 422.9 16.9 25.3#

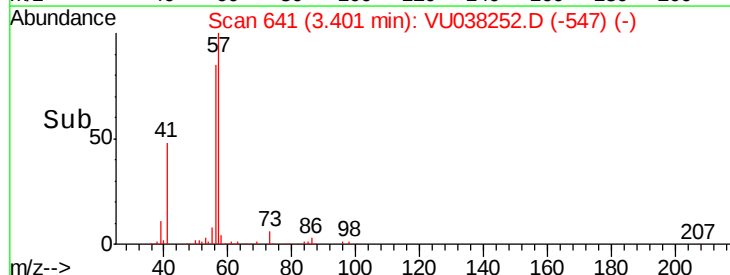
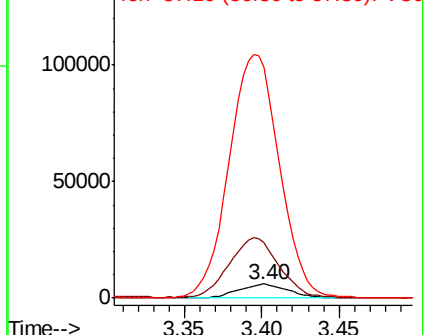
57 1746.3 18.2 27.2#

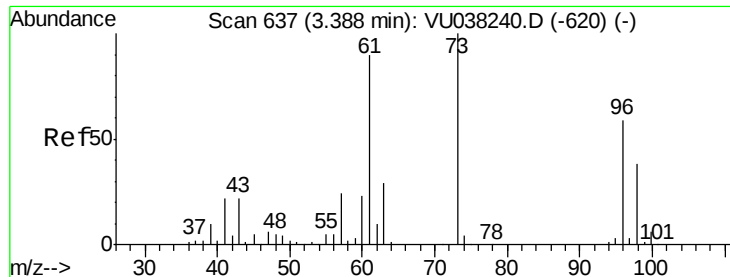


Abundance Ion 73.10 (72.80 to 73.80): VU0

Ion 43.05 (42.75 to 43.75): VU0

Ion 57.10 (56.80 to 57.80): VU0

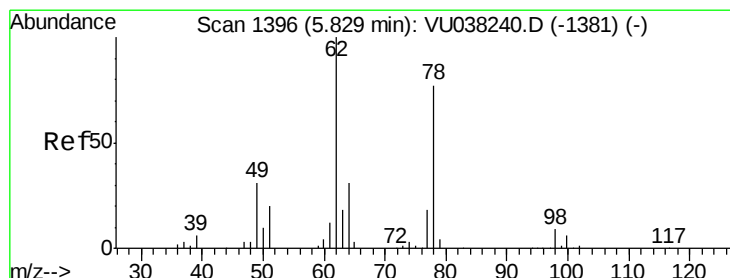
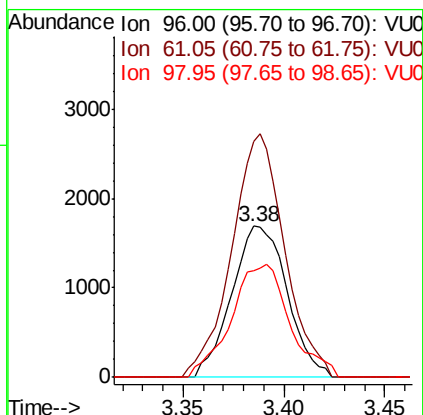
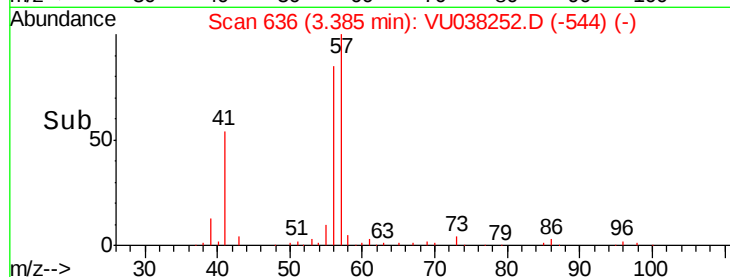
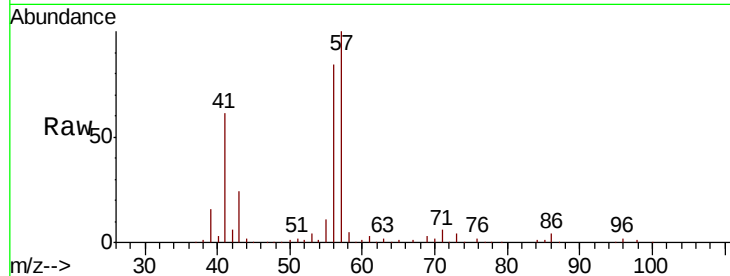




#18
 trans-1,2-Dichloroethene
 Concen: 0.128 ug/L
 RT: 3.38 min Scan# 636
 Delta R.T. -0.00 min
 Lab File: VU038252.D
 Acq: 20 May 2020 17:01

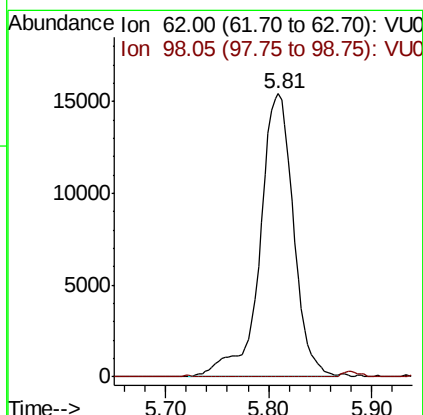
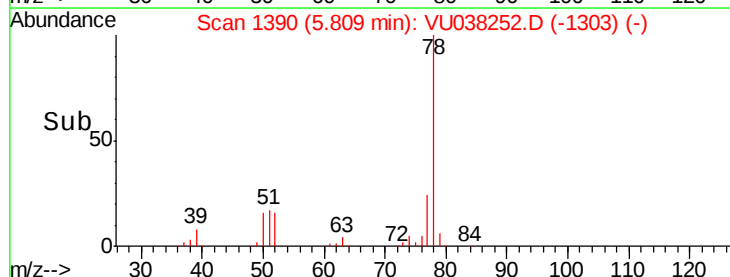
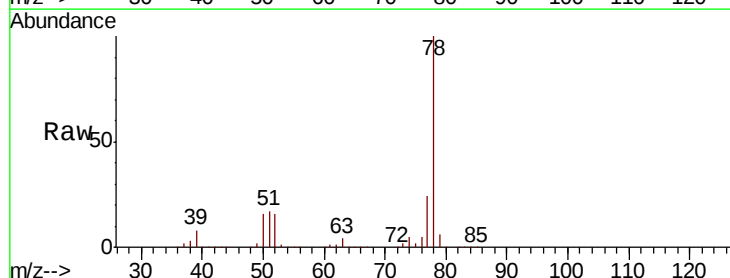
Instrument :
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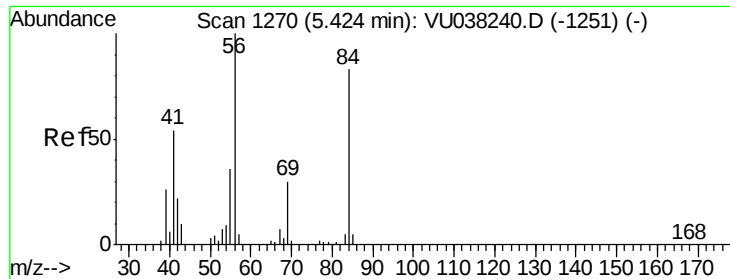
Tot Ion: 96 Resp: 3250
 Ion Ratio Lower Upper
 96 100
 61 156.0 102.1 189.5
 98 71.0 45.6 84.8



#27
 1,2-Dichloroethane
 Concen: 1.068 ug/L
 RT: 5.81 min Scan# 1390
 Delta R.T. -0.02 min
 Lab File: VU038252.D
 Acq: 20 May 2020 17:01

Tgt Ion: 62 Resp: 34956
 Ion Ratio Lower Upper
 62 100
 98 0.0 7.8 11.8#

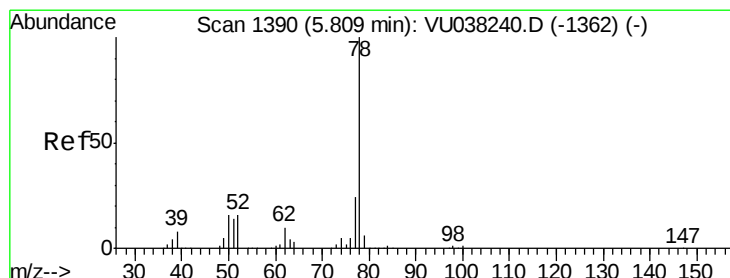
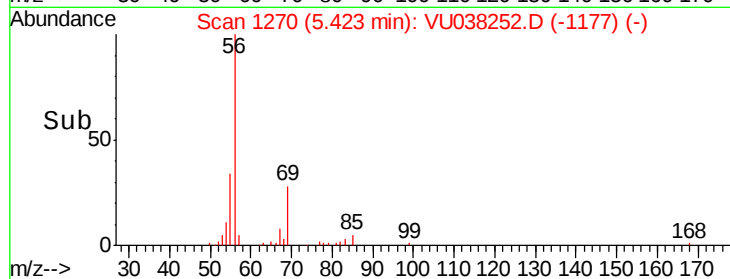
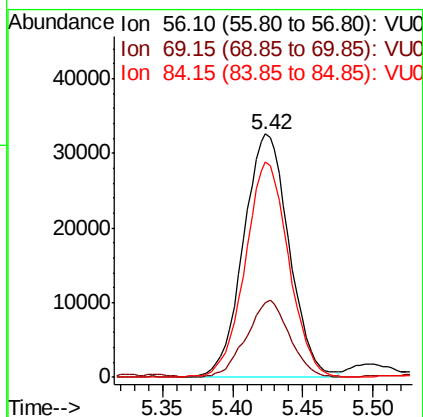
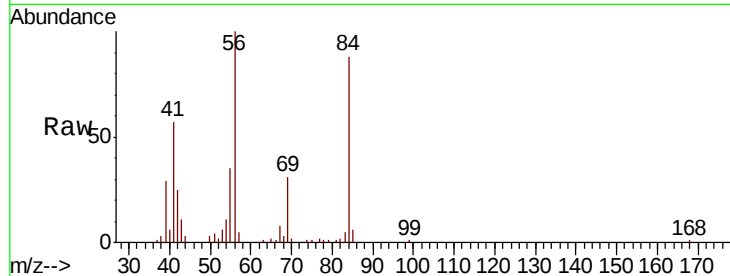




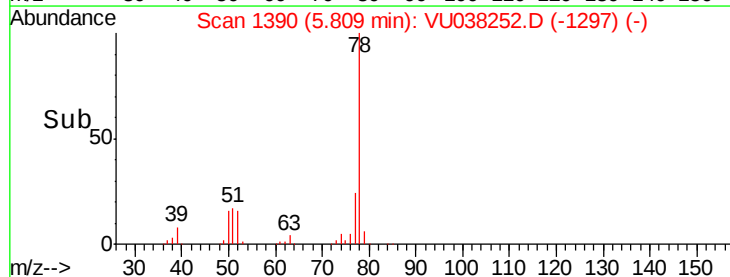
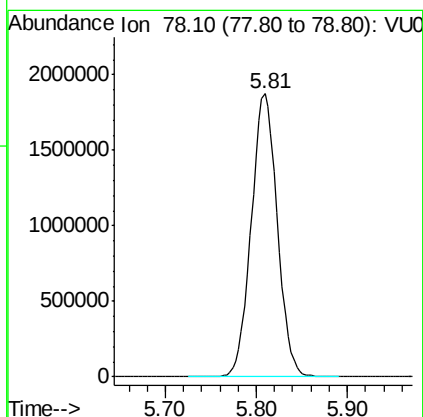
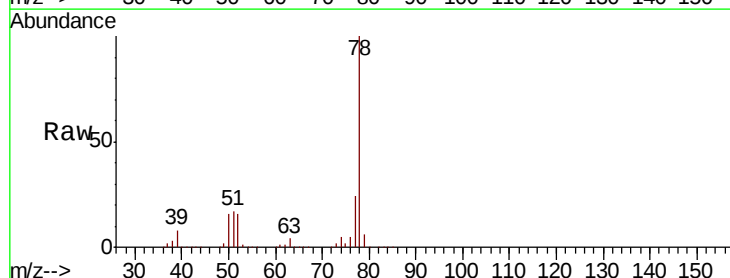
#30
Cyclohexane
Concen: 1.624 ug/L
RT: 5.42 min Scan# 1270
Delta R.T. -0.00 min
Lab File: VU038252.D
Acq: 20 May 2020 17:01

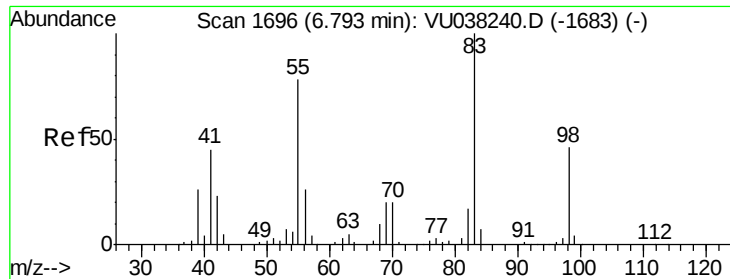
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 56 Resp: 73601
Ion Ratio Lower Upper
56 100
69 30.1 24.2 36.4
84 84.8 68.5 102.7



#33
Benzene
Concen: 34.706 ug/L
RT: 5.81 min Scan# 1390
Delta R.T. -0.00 min
Lab File: VU038252.D
Acq: 20 May 2020 17:01
Tgt Ion: 78 Resp: 3724168

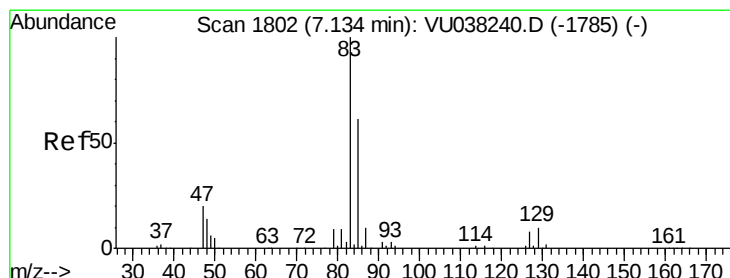
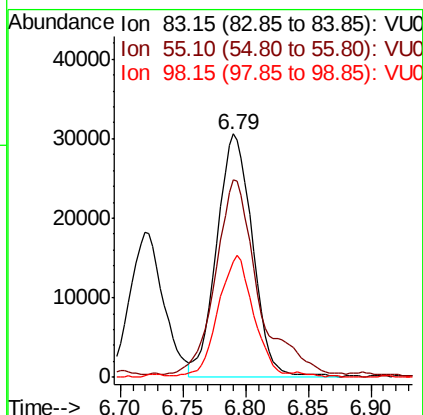
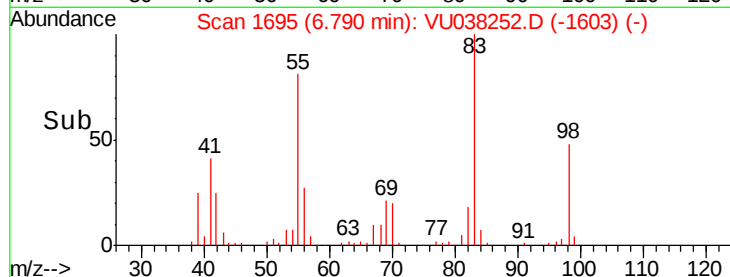
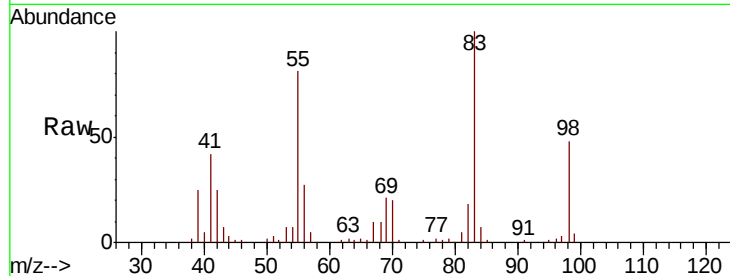




#35
Methylcyclohexane
Concen: 1.397 ug/L
RT: 6.79 min Scan# 1695
Delta R.T. -0.00 min
Lab File: VU038252.D
Acq: 20 May 2020 17:01

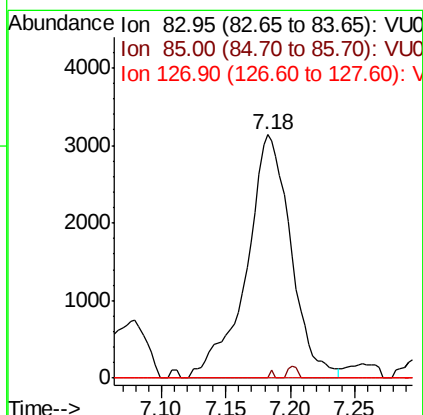
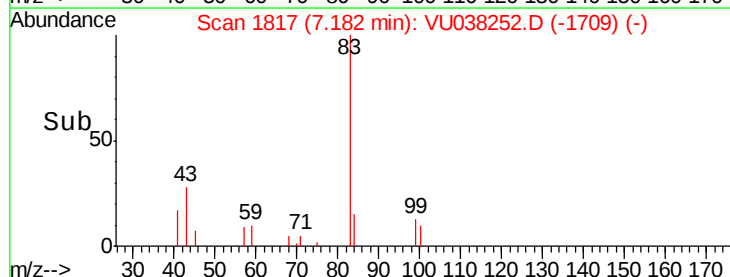
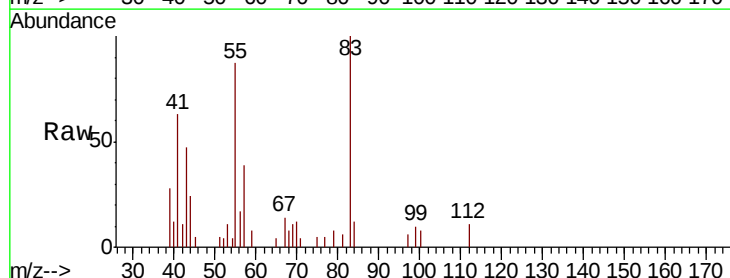
Instrument :
MSVOA_U
ClientSampleId :

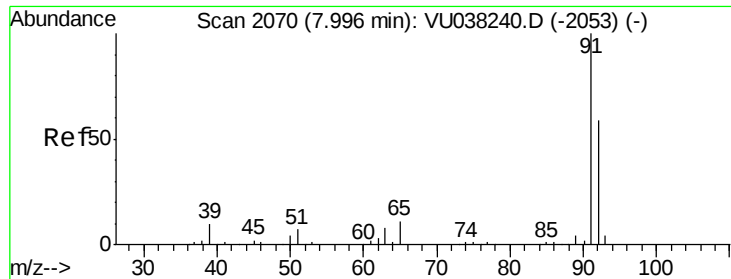
Tot Ion: 83 Resp: 60742
Ion Ratio Lower Upper
83 100
55 94.0 66.7 100.1
98 48.1 39.4 59.2



#38
Bromodichloromethane
Concen: 0.224 ug/L
RT: 7.18 min Scan# 1817
Delta R.T. 0.05 min
Lab File: VU038252.D
Acq: 20 May 2020 17:01

Tgt Ion: 83 Resp: 7534
Ion Ratio Lower Upper
83 100
85 0.0 44.6 82.8#
127 0.0 6.4 9.6#





#42

Toluene

Concen: 0.964 ug/L

RT: 7.99 min Scan# 2069

Delta R.T. -0.00 min

Lab File: VU038252.D

Acq: 20 May 2020 17:01

Instrument :

MSVOA_U

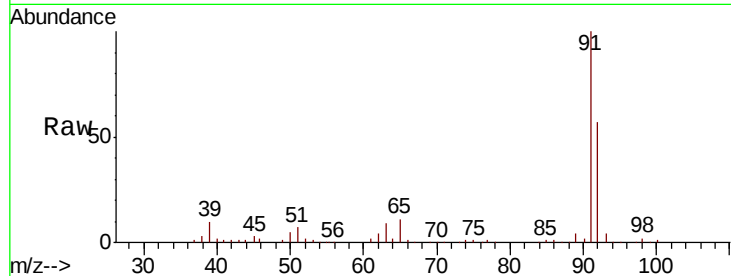
ClientSampleId :

Tot Ion: 91 Resp: 109204

Ion Ratio Lower Upper

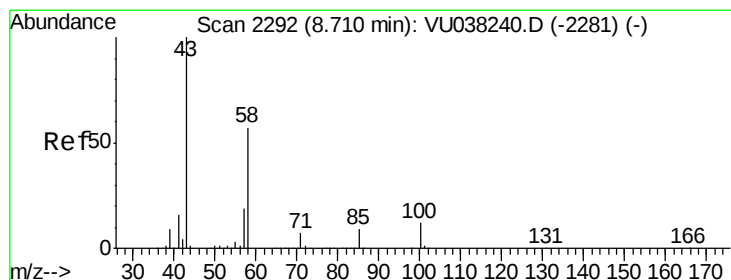
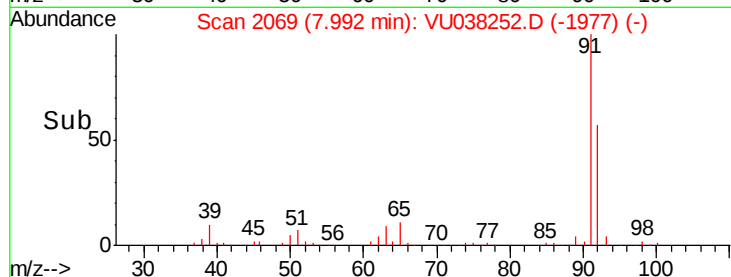
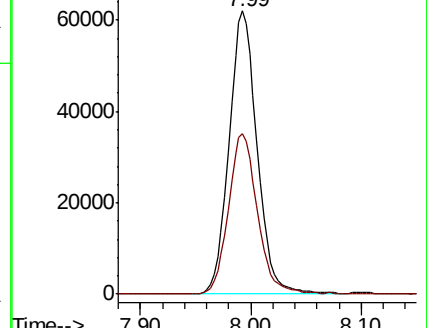
91 100

92 56.8 40.9 75.9



Abundance Ion 91.15 (90.85 to 91.85): VU038240.D (-2053) (-)

Ion 92.15 (91.85 to 92.85): VU038240.D (-2053) (-)



#48

2-Hexanone

Concen: 2.643 ug/L

RT: 8.71 min Scan# 2291

Delta R.T. -0.00 min

Lab File: VU038252.D

Acq: 20 May 2020 17:01

Tgt Ion: 43 Resp: 39102

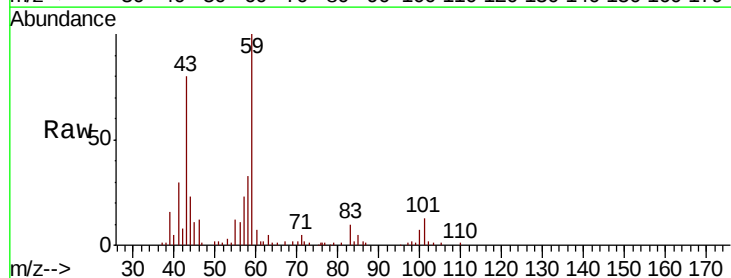
Ion Ratio Lower Upper

43 100

58 44.0 45.2 67.8#

57 24.4 15.5 23.3#

100 8.1 9.5 14.3#

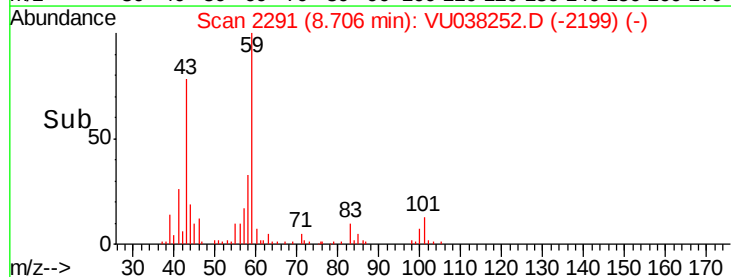
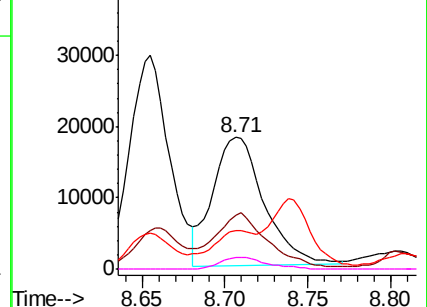


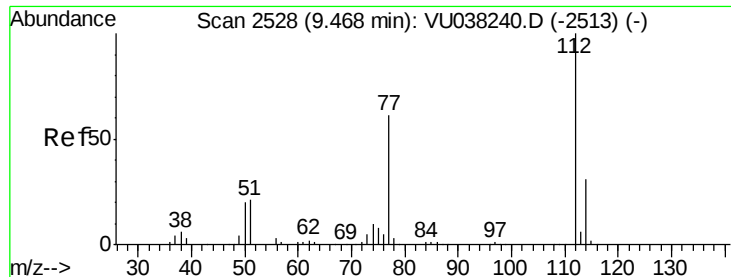
Abundance Ion 43.05 (42.75 to 43.75): VU038240.D (-2281) (-)

Ion 58.05 (57.75 to 58.75): VU038240.D (-2281) (-)

Ion 57.20 (56.90 to 57.90): VU038240.D (-2281) (-)

Ion 100.15 (99.85 to 100.85): VU038240.D (-2281) (-)





#51

Chlorobenzene

Concen: 61.359 ug/L

RT: 9.47 min Scan# 2527

Delta R.T. -0.00 min

Lab File: VU038252.D

Acq: 20 May 2020 17:01

Instrument :
MSVOA_U
ClientSampleId :

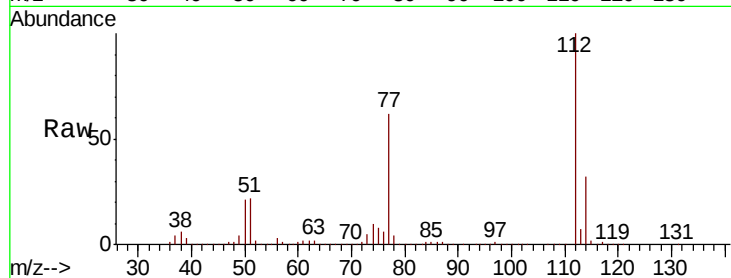
Tot Ion:112 Resp: 4313377

Ion Ratio Lower Upper

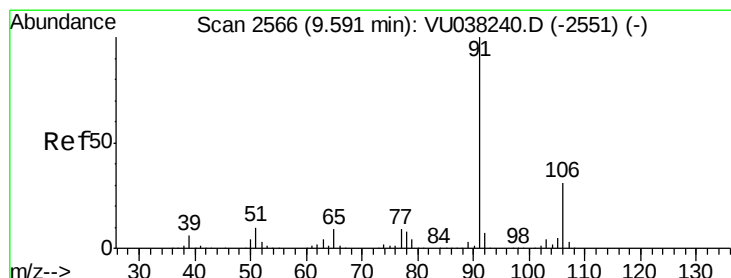
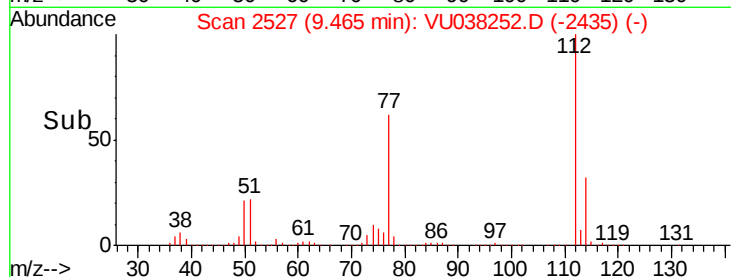
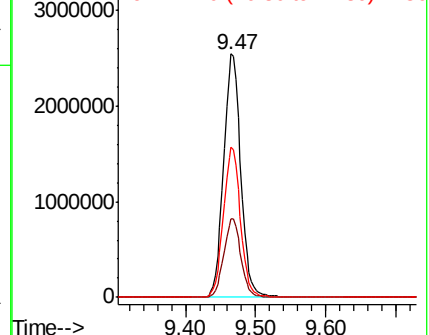
112 100

114 32.2 22.5 41.7

77 61.6 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): V



#52

Ethylbenzene

Concen: 0.233 ug/L

RT: 9.59 min Scan# 2565

Delta R.T. -0.00 min

Lab File: VU038252.D

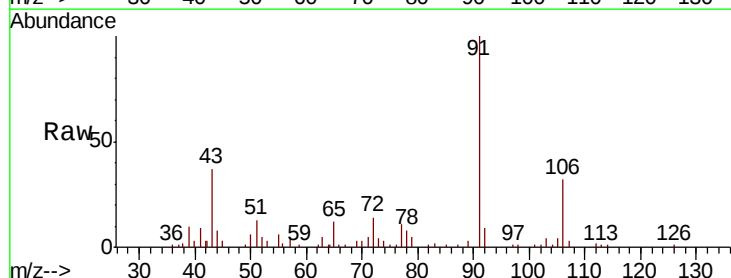
Acq: 20 May 2020 17:01

Tgt Ion: 91 Resp: 28534

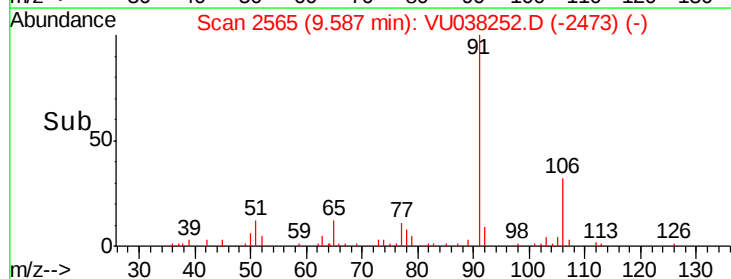
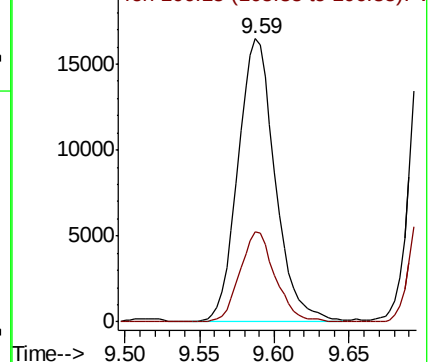
Ion Ratio Lower Upper

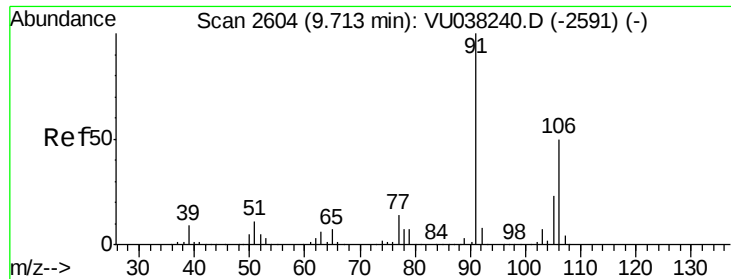
91 100

106 31.7 21.8 40.4



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





#53

m,p-Xylene

Concen: 0.676 ug/L

RT: 9.71 min Scan# 2603

Delta R.T. -0.00 min

Lab File: VU038252.D

Acq: 20 May 2020 17:01

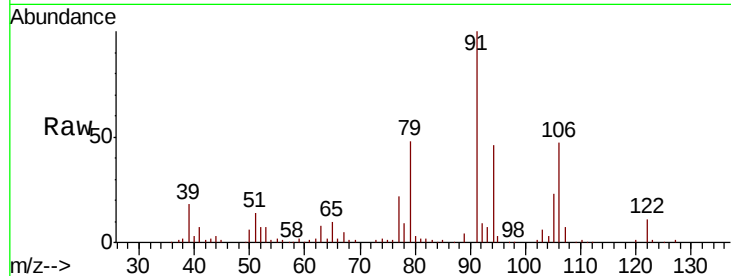
Instrument :
MSVOA_U
ClientSampled :

Tot Ion:106 Resp: 31807

Ion Ratio Lower Upper

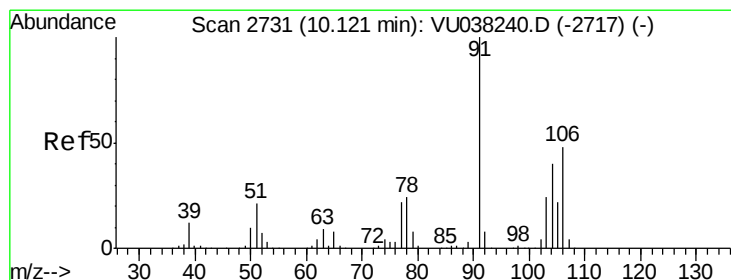
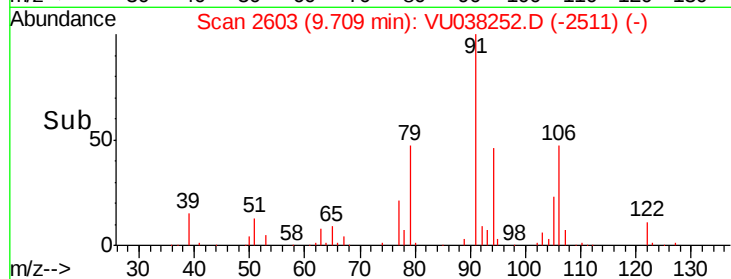
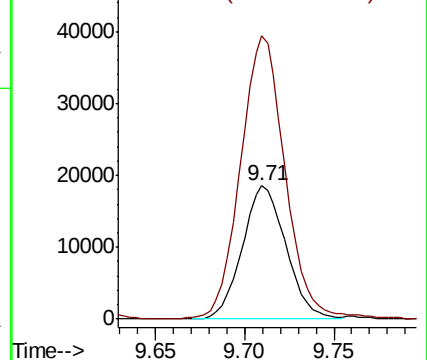
106 100

91 211.9 142.1 263.9



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#54

o-Xylene

Concen: 0.914 ug/L

RT: 10.11 min Scan# 2729

Delta R.T. -0.01 min

Lab File: VU038252.D

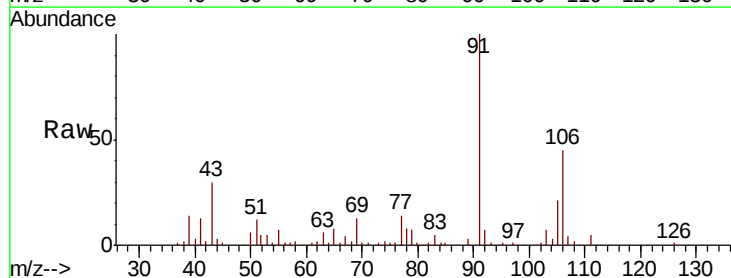
Acq: 20 May 2020 17:01

Tgt Ion:106 Resp: 41601

Ion Ratio Lower Upper

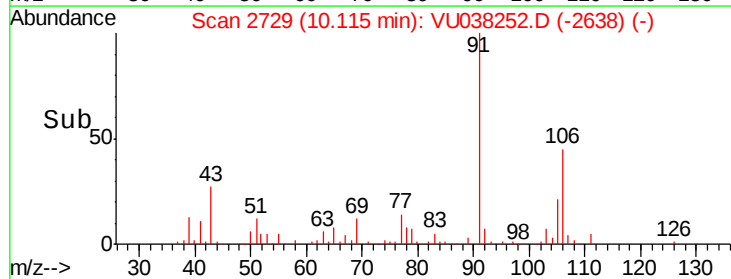
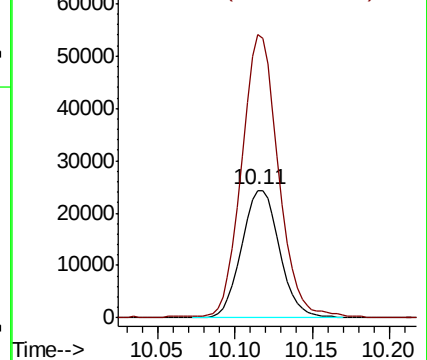
106 100

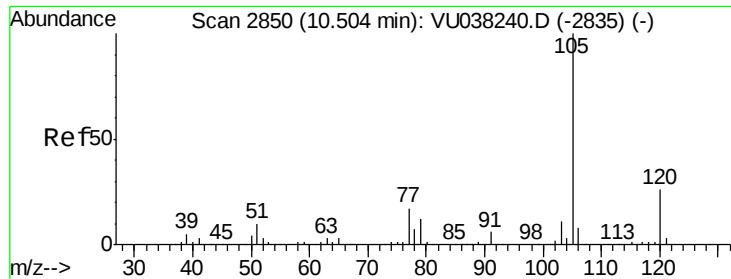
91 221.9 148.5 275.9



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0





#56

Isopropylbenzene

Concen: 4.278 ug/L

RT: 10.50 min Scan# 2849

Delta R.T. -0.00 min

Lab File: VU038252.D

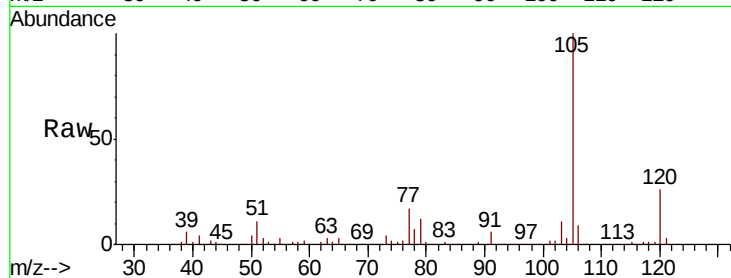
Acq: 20 May 2020 17:01

Instrument :

MSVOA_U

ClientSampleId :

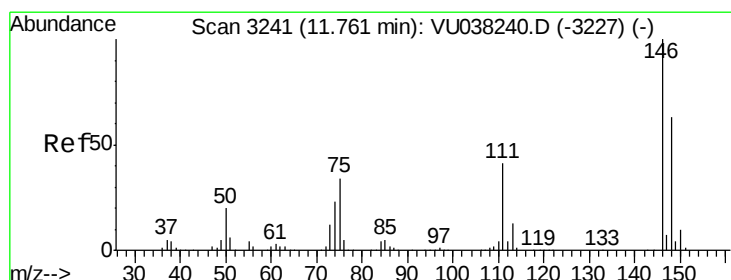
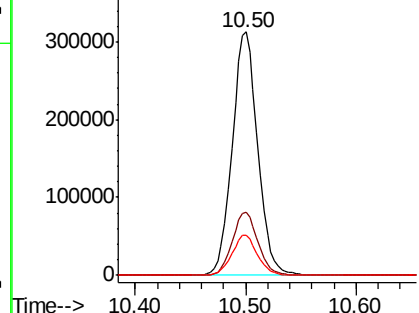
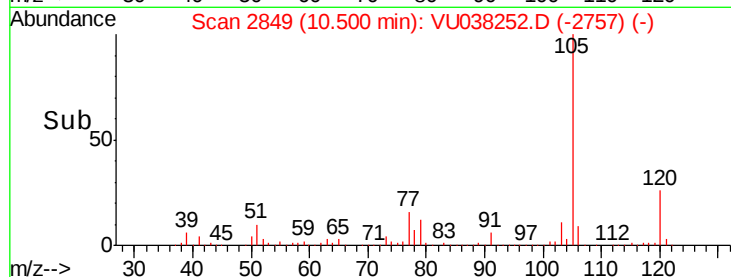
Tot Ion:105	Resp:	499907
Ion Ratio	Lower	Upper
105	100	
120	26.2	21.0 31.6
77	16.6	13.0 19.4



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



#62

1,3-Dichlorobenzene

Concen: 0.428 ug/L

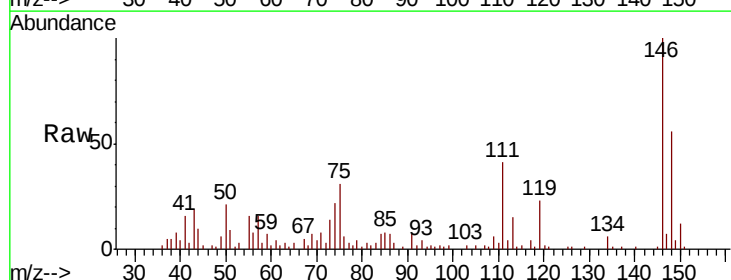
RT: 11.76 min Scan# 3240

Delta R.T. -0.00 min

Lab File: VU038252.D

Acq: 20 May 2020 17:01

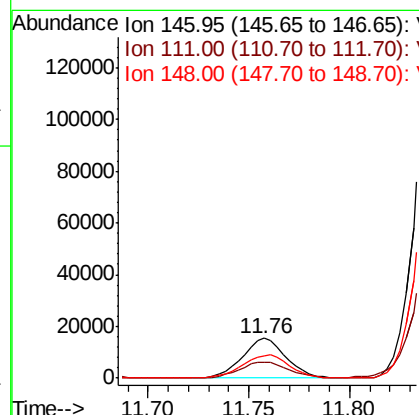
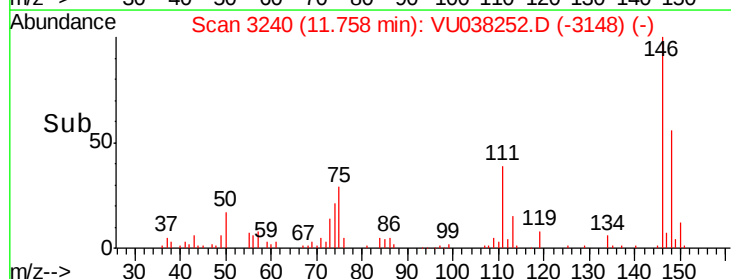
Tgt Ion:146	Resp:	23355
Ion Ratio	Lower	Upper
146	100	
111	41.1	28.6 53.2
148	56.5	45.2 84.0

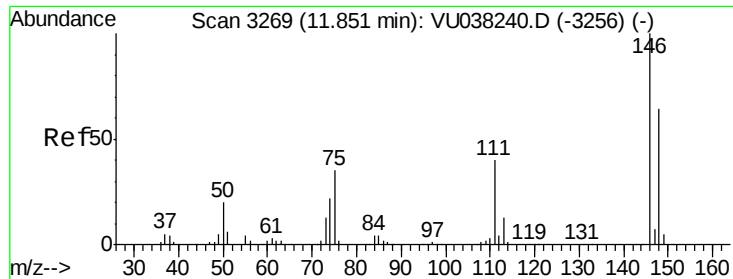


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#63

1,4-Dichlorobenzene

Concen: 6.027 ug/L

RT: 11.85 min Scan# 3268

Delta R.T. -0.00 min

Lab File: VU038252.D

Acq: 20 May 2020 17:01

Instrument :

MSVOA_U

ClientSampled :

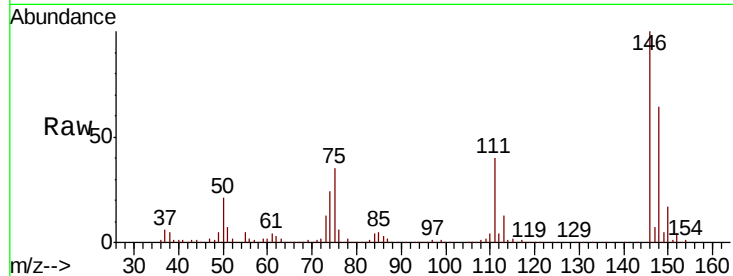
Tot Ion:146 Resp: 333405

Ion Ratio Lower Upper

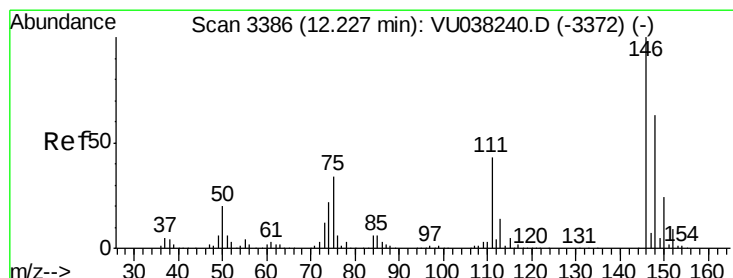
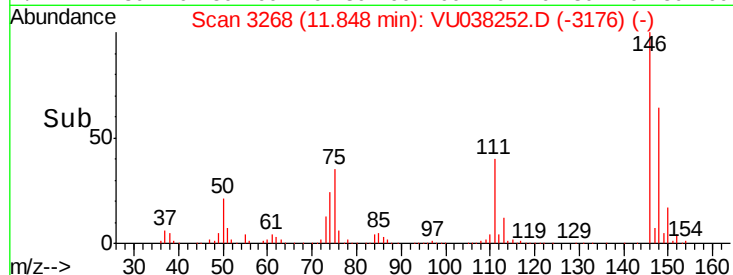
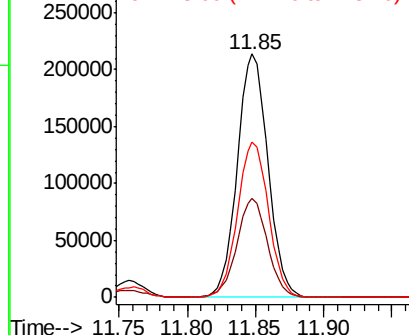
146 100

111 40.4 27.2 50.6

148 63.8 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: 1.182 ug/L

RT: 12.22 min Scan# 3385

Delta R.T. -0.00 min

Lab File: VU038252.D

Acq: 20 May 2020 17:01

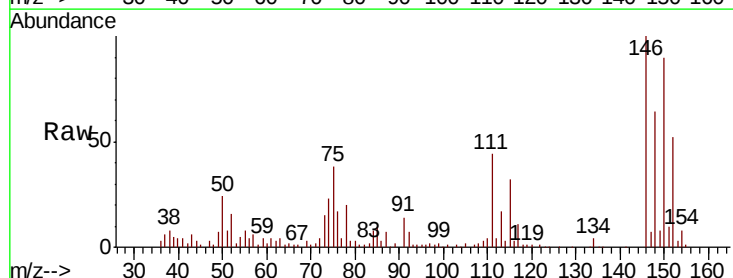
Tgt Ion:146 Resp: 62075

Ion Ratio Lower Upper

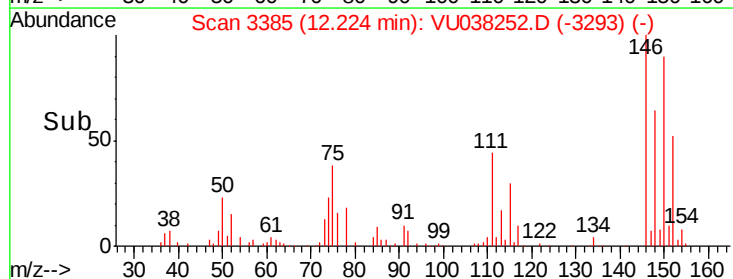
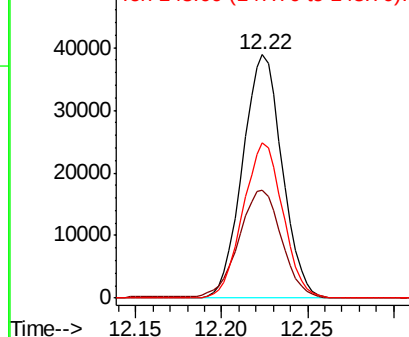
146 100

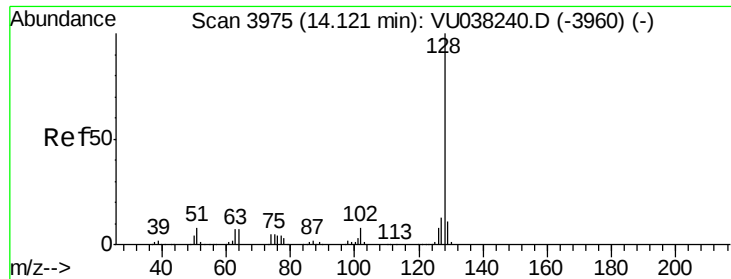
111 44.4 35.3 52.9

148 63.9 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





#69

Naphthalene

Concen: 0.246 ug/L

RT: 14.11 min Scan# 3972

Delta R.T. -0.01 min

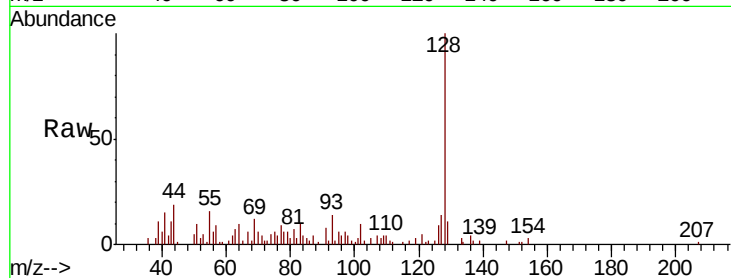
Lab File: VU038252.D

Acq: 20 May 2020 17:01

Instrument :

MSVOA_U

ClientSampleId :



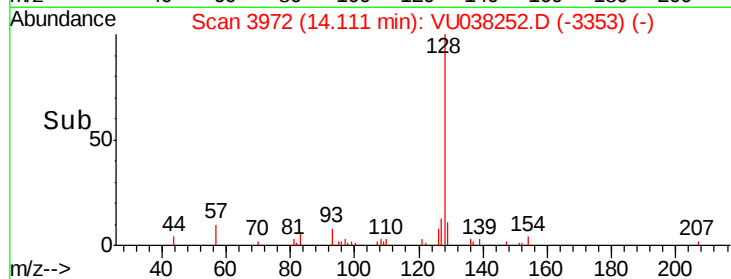
Tot Ion:128 Resp: 18624

Ion Ratio Lower Upper

128 100

129 10.2 8.7 13.1

127 12.9 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

