

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052120\
 Data File : VU038264.D
 Acq On : 21 May 2020 15:07
 Operator : JC/MD
 Sample : L2724-11
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: May 22 01:05:10 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050720WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri May 22 01:03:14 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.32	114	352595	5.00	ug/L	0.04
28) Chlorobenzene-d5	9.45	117	357372	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	183222	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.65	65	114487	3.55	ug/L	0.04
Spiked Amount	5.000	Range	40 - 130	Recovery	=	71.00%
7) Chloroethane-d5	1.96	69	122553	4.39	ug/L	0.03
Spiked Amount	5.000	Range	65 - 130	Recovery	=	87.80%
11) 1,1-Dichloroethene-d2	2.63	63	172235	3.19	ug/L	0.03
Spiked Amount	5.000	Range	60 - 125	Recovery	=	63.80%
20) 2-Butanone-d5	4.80	46	410960	51.65	ug/L	0.11
Spiked Amount	50.000	Range	40 - 130	Recovery	=	103.30%
24) Chloroform-d	5.14	84	229960	4.70	ug/L	0.04
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.00%
26) 1,2-Dichloroethane-d4	5.80	65	135525	4.83	ug/L	0.06
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.60%
32) Benzene-d6	5.81	84	467342	4.36	ug/L	0.05
Spiked Amount	5.000	Range	70 - 125	Recovery	=	87.20%
36) 1,2-Dichloropropane-d6	6.76	67	162501	4.70	ug/L	0.04
Spiked Amount	5.000	Range	60 - 140	Recovery	=	94.00%
41) Toluene-d8	7.94	98	424218	4.41	ug/L	0.02
Spiked Amount	5.000	Range	70 - 130	Recovery	=	88.20%
43) trans-1,3-Dichloropropene-	8.22	79	58344	4.21	ug/L	0.01
Spiked Amount	5.000	Range	55 - 130	Recovery	=	84.20%
46) 2-Hexanone-d5	8.68	63	381209	58.31	ug/L	0.02
Spiked Amount	50.000	Range	45 - 130	Recovery	=	116.62%
57) 1,1,2,2-Tetrachloroethane-	10.78	84	142314	5.22	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	104.40%
64) 1,2-Dichlorobenzene-d4	12.20	152	168415	4.72	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	94.40%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
8) Chloroethane	1.99	64	144822	6.183	ug/L	91
13) Acetone	2.45	43	1424364	285.305	ug/L	50
14) Carbon disulfide	2.86	76	15415	0.177	ug/L #	83
16) Methylene chloride	3.12	84	4696	0.165	ug/L	97
17) Methyl tert-butyl Ether	3.47	73	68770	1.011	ug/L #	91
18) trans-1,2-Dichloroethene	3.42	96	8184	0.306	ug/L	87
19) 1,1-Dichloroethane	3.95	63	30369	0.582	ug/L	94
27) 1,2-Dichloroethane	5.86	62	755491	21.991	ug/L #	73
30) Cyclohexane	5.46	56	98883	2.045	ug/L	98
35) Methylcyclohexane	6.82	83	64763	1.397	ug/L	98
37) 1,2-Dichloropropane	6.76	63	17945	0.577	ug/L #	15
38) Bromodichloromethane	7.21	83	5692	0.158	ug/L #	39
42) Toluene	8.01	91	342708	2.837	ug/L	99
48) 2-Hexanone	8.73	43	56085	3.555	ug/L #	81
52) Ethylbenzene	9.60	91	1639210	12.526	ug/L	100
53) m,p-Xylene	9.72	106	4533493	90.346	ug/L	97
54) o-Xylene	10.12	106	797320	16.434	ug/L	99

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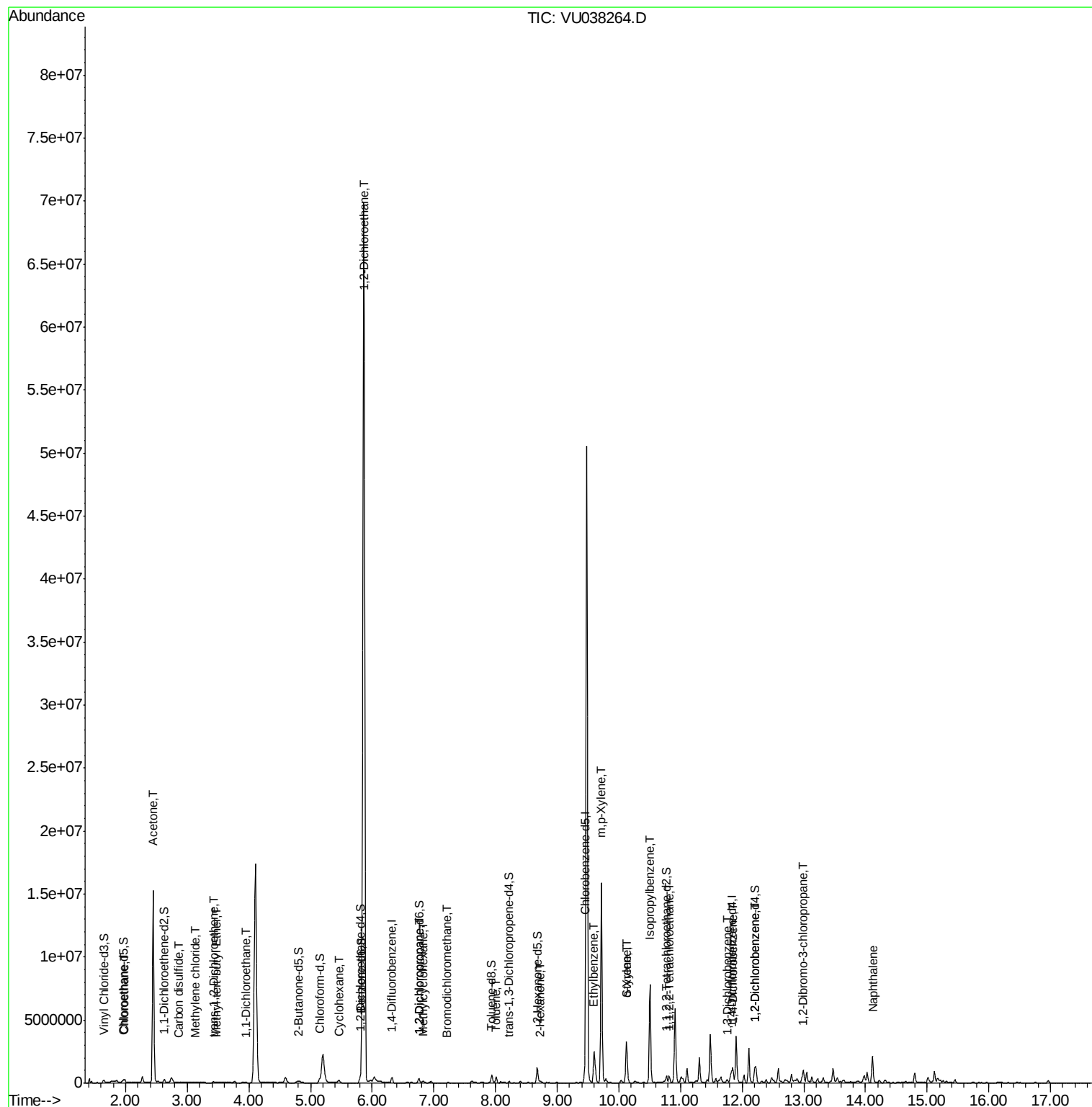
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
55) Styrene	10.12	104	50170	0.616	ug/L #	1
56) Isopropylbenzene	10.50	105	5151452	41.336	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.81	83	10509	0.383	ug/L #	46
62) 1,3-Dichlorobenzene	11.76	146	38210	0.641	ug/L	97
63) 1,4-Dichlorobenzene	11.85	146	432179	7.154	ug/L	99
65) 1,2-Dichlorobenzene	12.22	146	317489	5.536	ug/L	99
66) 1,2-Dibromo-3-chloropropan	13.00	75	4043	0.863	ug/L #	8
69) Naphthalene	14.11	128	1592049	19.274	ug/L	99

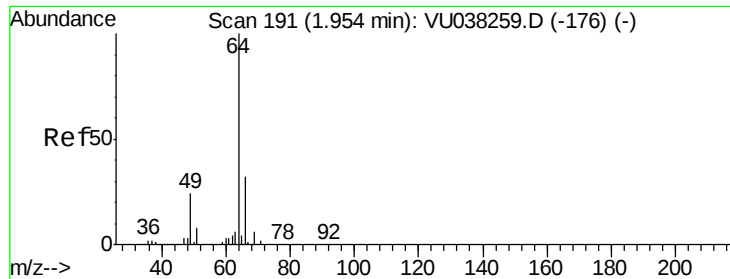
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#8

Chloroethane

Concen: 6.183 ug/L

RT: 1.99 min Scan# 201

Delta R.T. 0.03 min

Lab File: VU038264.D

Acq: 21 May 2020 15:07

Instrument :

MSVOA_U

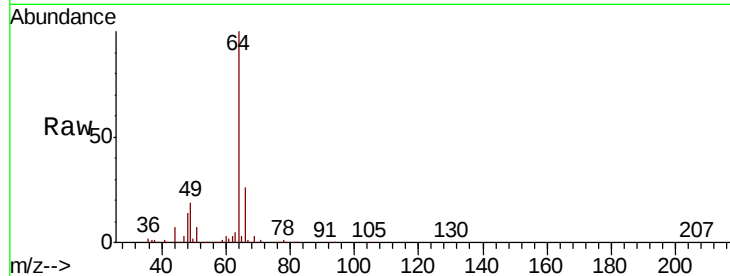
ClientSampled :

Tot Ion: 64 Resp: 144822

Ion Ratio Lower Upper

64 100

66 26.4 21.8 40.4



Abundance Ion 64.10 (63.80 to 64.80): VU038259.D (-176) (-)

Ion 66.05 (65.75 to 66.75): VU038259.D (-176) (-)

1.99

150000

100000

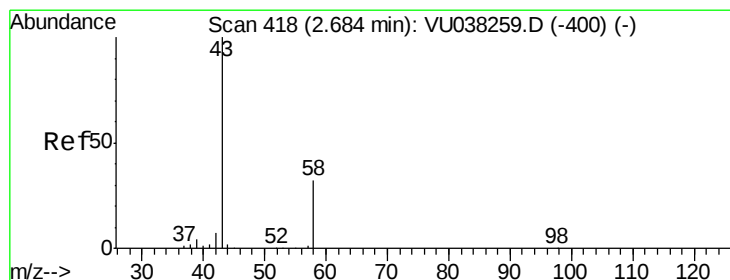
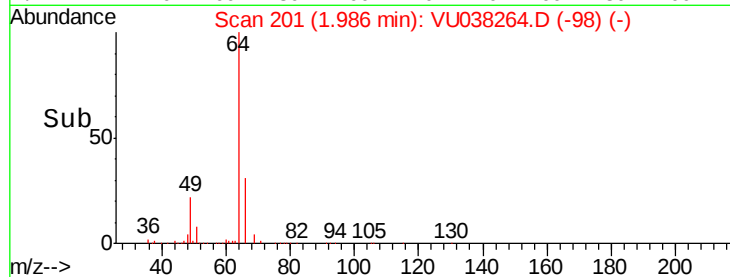
50000

0

1.95

2.00

Time-->



#13

Acetone

Concen: 285.305 ug/L

RT: 2.45 min Scan# 344

Delta R.T. -0.24 min

Lab File: VU038264.D

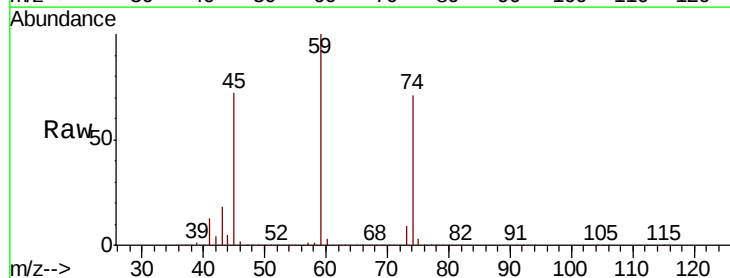
Acq: 21 May 2020 15:07

Tgt Ion: 43 Resp: 1424364

Ion Ratio Lower Upper

43 100

58 3.9 0.0 63.6



Abundance Ion 43.05 (42.75 to 43.75): VU038259.D (-400) (-)

Ion 58.05 (57.75 to 58.75): VU038259.D (-400) (-)

2.45

1000000

800000

600000

400000

200000

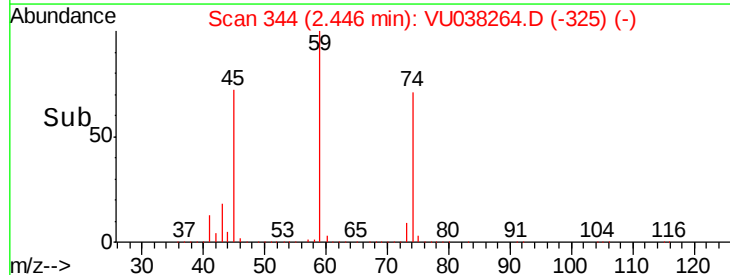
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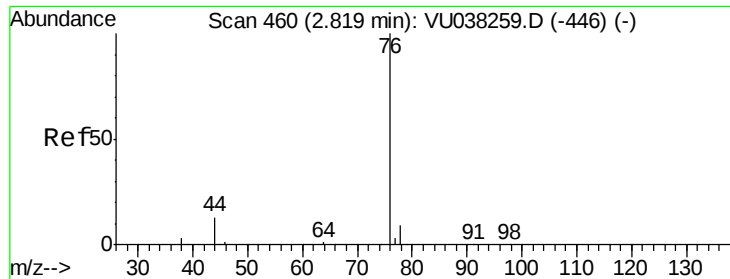
2.40

2.50

2.60

Time-->





#14

Carbon disulfide

Concen: 0.177 ug/L

RT: 2.86 min Scan# 472

Delta R.T. 0.04 min

Lab File: VU038264.D

Acq: 21 May 2020 15:07

Instrument :

MSVOA_U

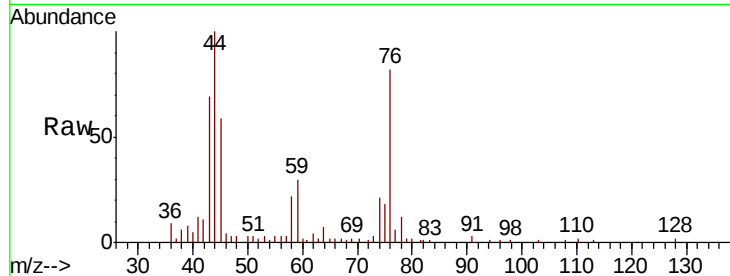
ClientSampleId :

Tot Ion: 76 Resp: 15415

Ion Ratio Lower Upper

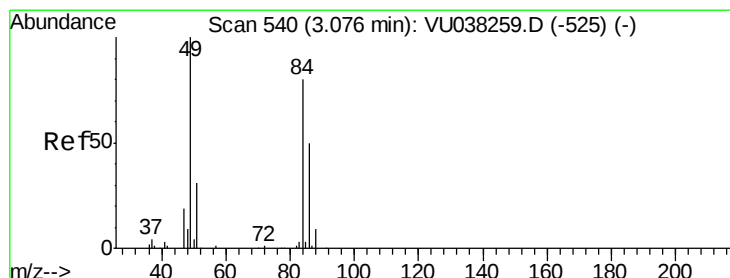
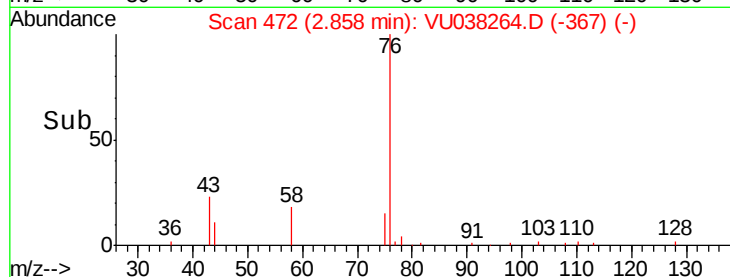
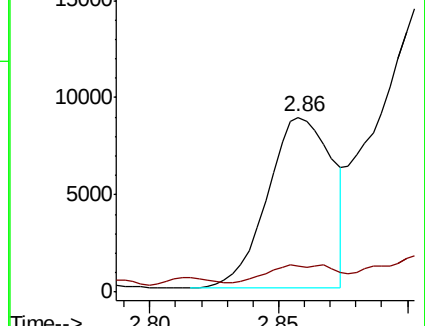
76 100

78 14.9 7.1 10.7#



Abundance Ion 76.05 (75.75 to 76.75): VU038259.D (-446) (-)

Ion 78.00 (77.70 to 78.70): VU038259.D (-446) (-)



#16

Methylene chloride

Concen: 0.165 ug/L

RT: 3.12 min Scan# 554

Delta R.T. 0.05 min

Lab File: VU038264.D

Acq: 21 May 2020 15:07

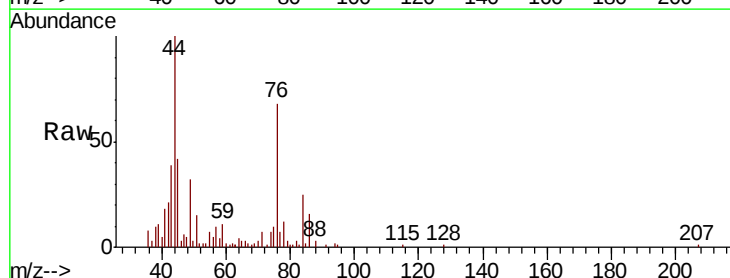
Tgt Ion: 84 Resp: 4696

Ion Ratio Lower Upper

84 100

86 63.0 44.9 83.3

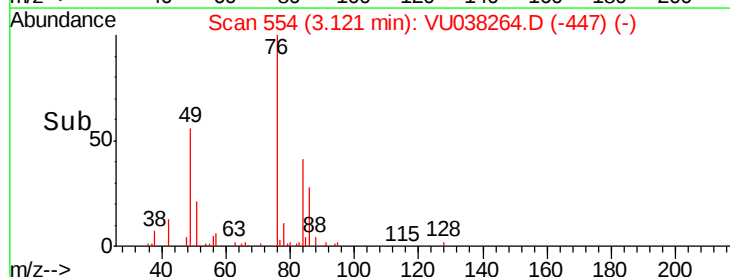
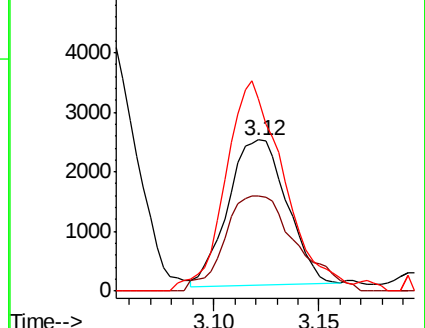
49 127.3 92.0 170.9

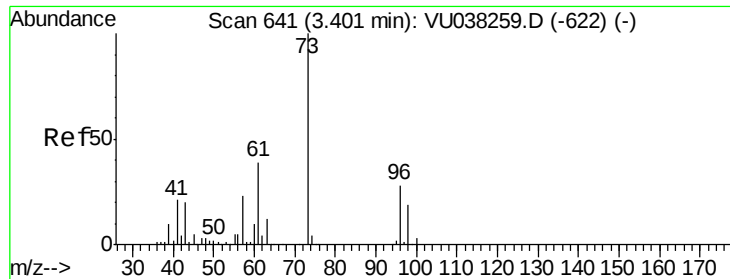


Abundance Ion 84.05 (83.75 to 84.75): VU038259.D (-525) (-)

Ion 86.00 (85.70 to 86.70): VU038259.D (-525) (-)

Ion 49.10 (48.80 to 49.80): VU038259.D (-525) (-)

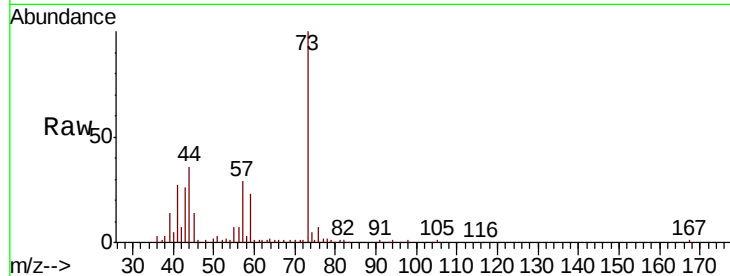




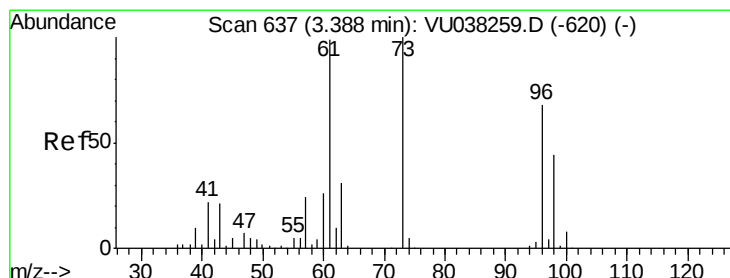
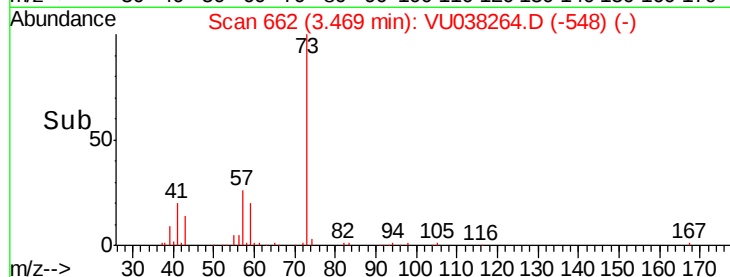
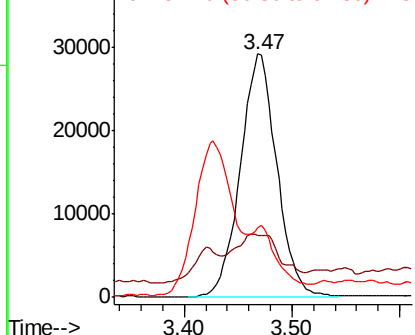
#17
Methvl tert-butvl Ether
Concen: 1.011 ug/L
RT: 3.47 min Scan# 662
Delta R.T. 0.07 min
Lab File: VU038264.D
Acq: 21 May 2020 15:07

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 73 Resp: 68770
Ion Ratio Lower Upper
73 100
43 21.2 16.9 25.3
57 14.8 18.2 27.2#

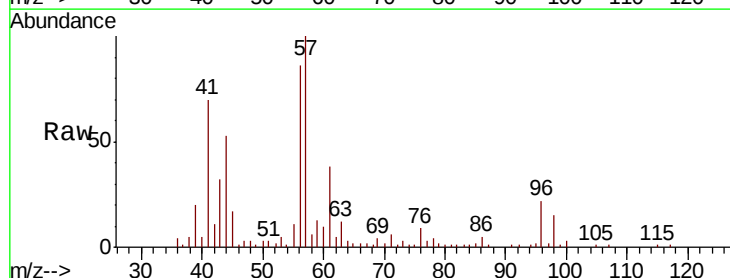


Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

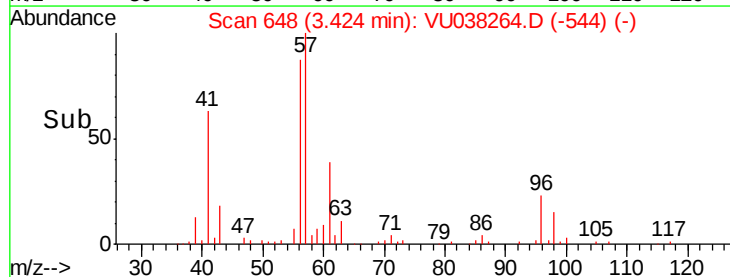
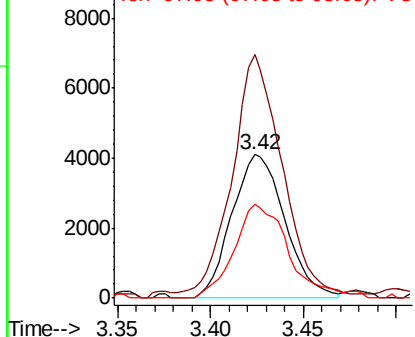


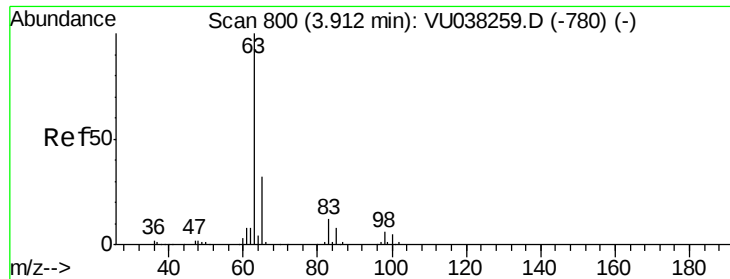
#18
trans-1,2-Dichloroethene
Concen: 0.306 ug/L
RT: 3.42 min Scan# 648
Delta R.T. 0.04 min
Lab File: VU038264.D
Acq: 21 May 2020 15:07

Tgt Ion: 96 Resp: 8184
Ion Ratio Lower Upper
96 100
61 169.7 102.1 189.5
98 65.5 45.6 84.8



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 97.95 (97.65 to 98.65): VU0

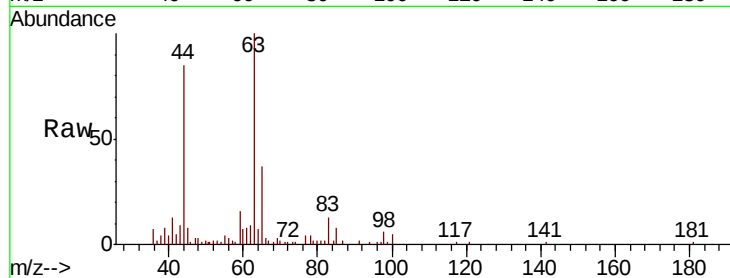




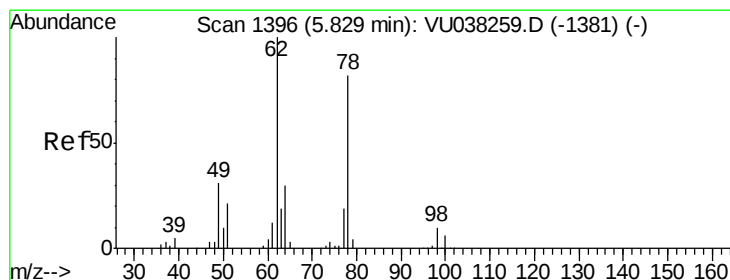
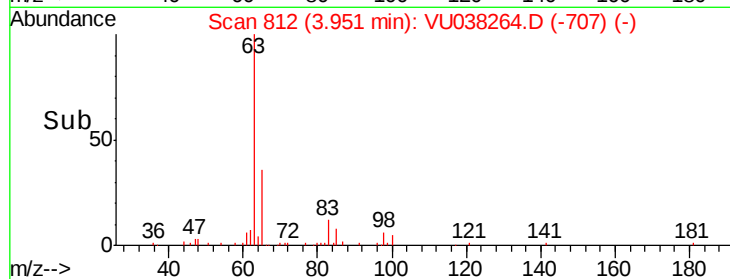
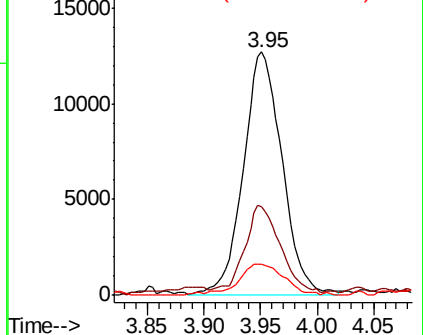
#19
 1,1-Dichloroethane
 Concen: 0.582 ug/L
 RT: 3.95 min Scan# 812
 Delta R.T. 0.04 min
 Lab File: VU038264.D
 Acq: 21 May 2020 15:07

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 63 Resp: 30369
 Ion Ratio Lower Upper
 63 100
 65 36.7 22.5 41.7
 83 12.7 8.9 16.5

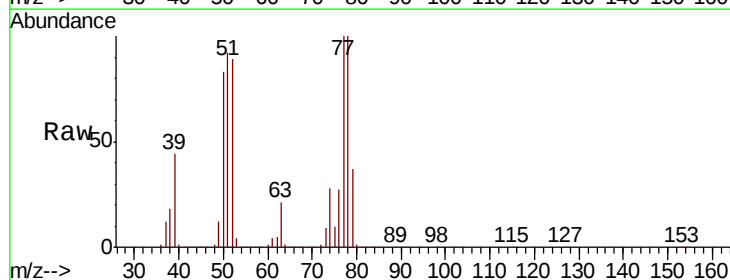


Abundance Ion 63.10 (62.80 to 63.80): VU0
 Ion 65.10 (64.80 to 65.80): VU0
 Ion 83.05 (82.75 to 83.75): VU0

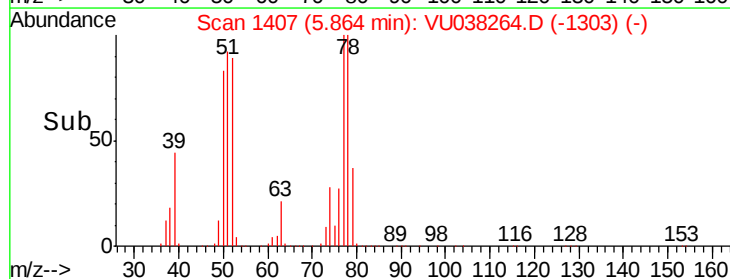
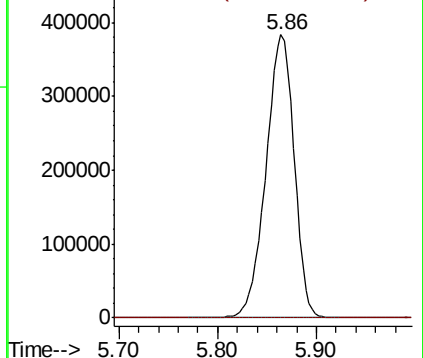


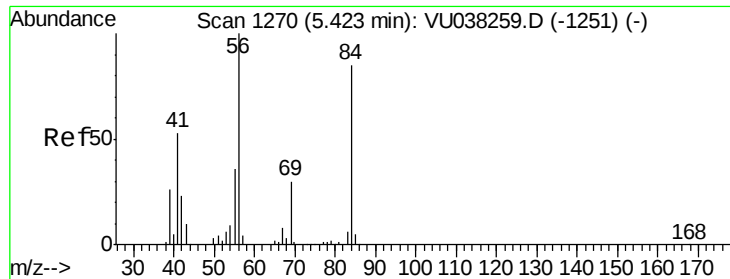
#27
 1,2-Dichloroethane
 Concen: 21.991 ug/L
 RT: 5.86 min Scan# 1407
 Delta R.T. 0.04 min
 Lab File: VU038264.D
 Acq: 21 May 2020 15:07

Tgt Ion: 62 Resp: 755491
 Ion Ratio Lower Upper
 62 100
 98 0.0 7.8 11.8#



Abundance Ion 62.00 (61.70 to 62.70): VU0
 Ion 98.05 (97.75 to 98.75): VU0

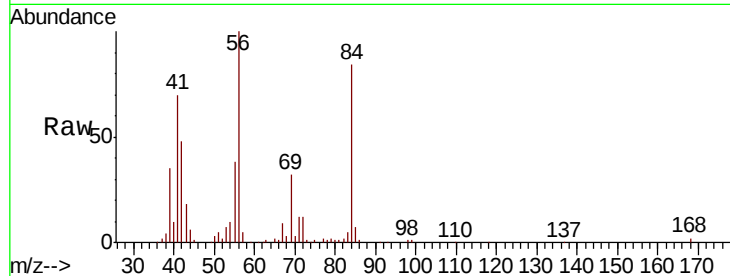




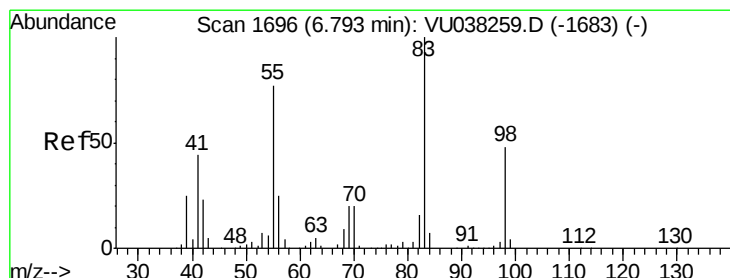
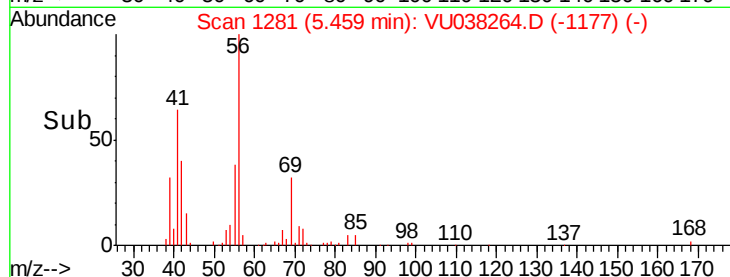
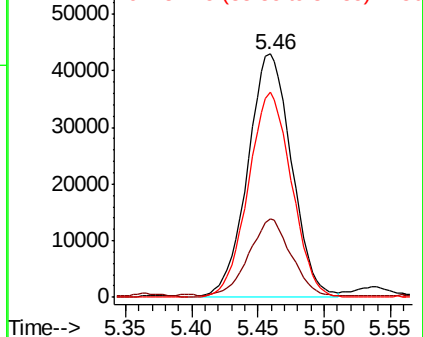
#30
Cyclohexane
Concen: 2.045 ug/L
RT: 5.46 min Scan# 1281
Delta R.T. 0.04 min
Lab File: VU038264.D
Acq: 21 May 2020 15:07

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 56 Resp: 98883
Ion Ratio Lower Upper
56 100
69 29.6 24.2 36.4
84 82.9 68.5 102.7

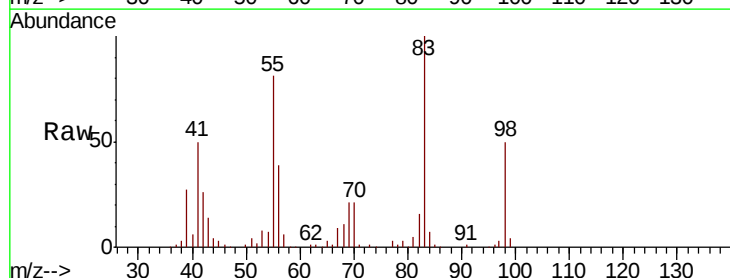


Abundance Ion 56.10 (55.80 to 56.80): VU0
Ion 69.15 (68.85 to 69.85): VU0
Ion 84.15 (83.85 to 84.85): VU0

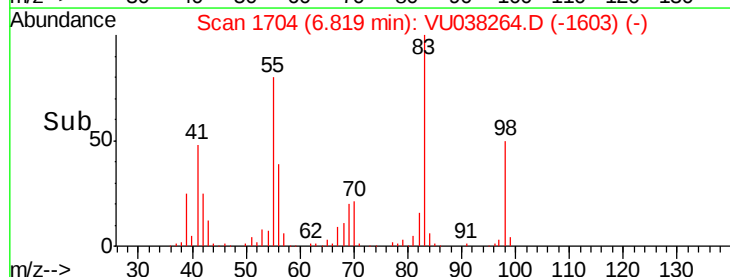
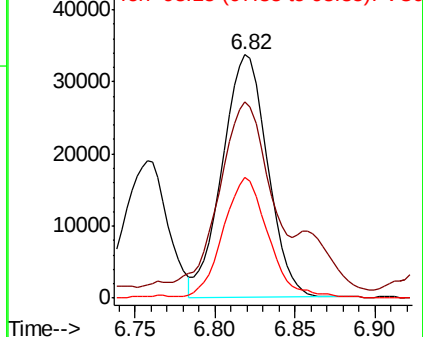


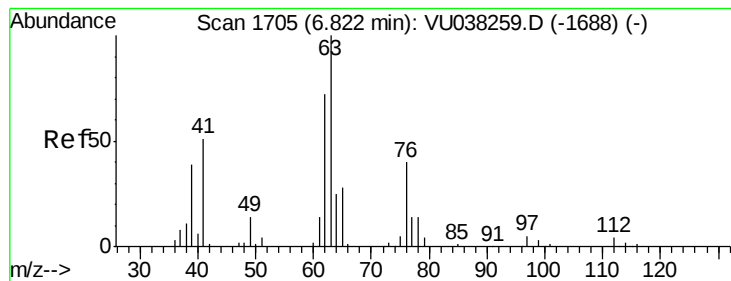
#35
Methylcyclohexane
Concen: 1.397 ug/L
RT: 6.82 min Scan# 1704
Delta R.T. 0.03 min
Lab File: VU038264.D
Acq: 21 May 2020 15:07

Tgt Ion: 83 Resp: 64763
Ion Ratio Lower Upper
83 100
55 85.2 66.7 100.1
98 50.6 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: 0.577 ug/L

RT: 6.76 min Scan# 1685

Delta R.T. -0.06 min

Lab File: VU038264.D

Acq: 21 May 2020 15:07

Instrument :

MSVOA_U

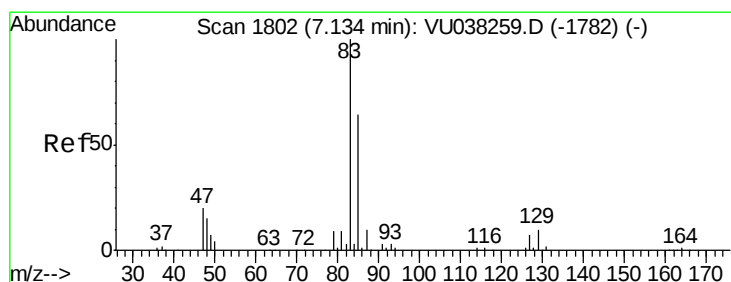
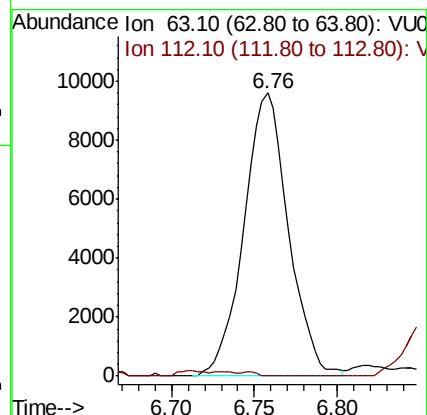
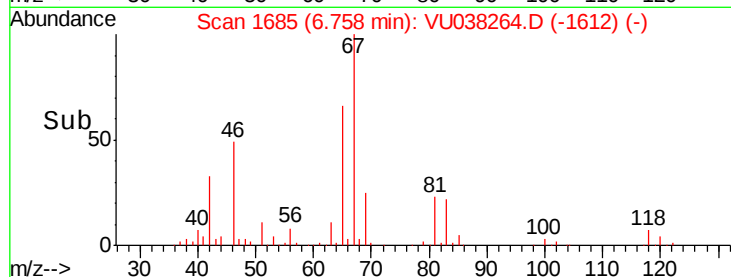
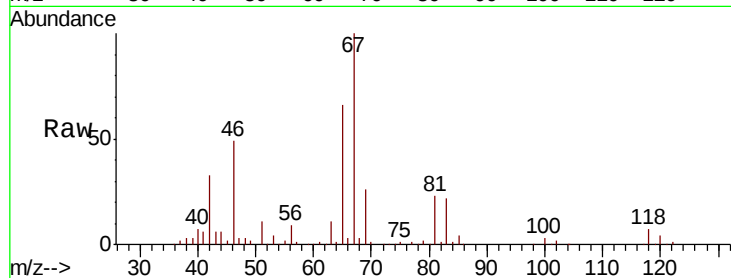
ClientSampled :

Tot Ion: 63 Resp: 17945

Ion Ratio Lower Upper

63 100

112 31.9 3.1 4.7#



#38

Bromodichloromethane

Concen: 0.158 ug/L

RT: 7.21 min Scan# 1825

Delta R.T. 0.07 min

Lab File: VU038264.D

Acq: 21 May 2020 15:07

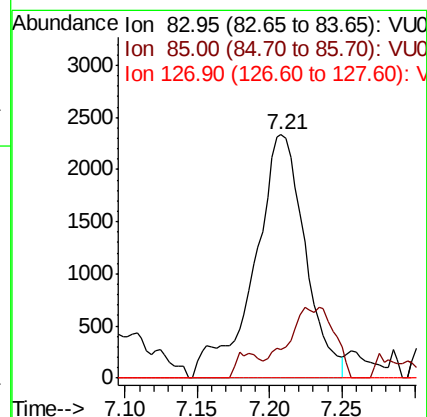
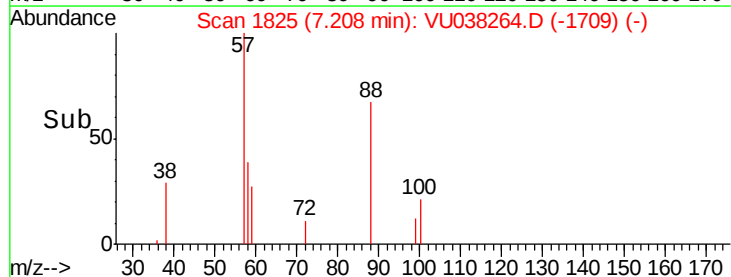
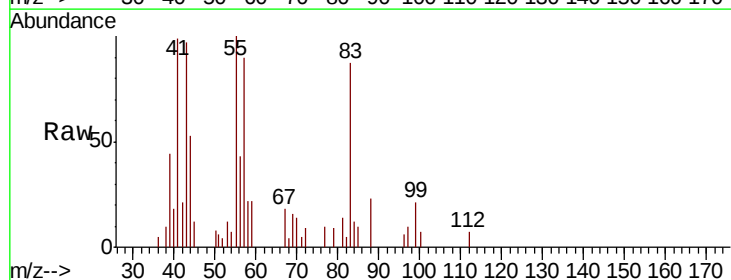
Tgt Ion: 83 Resp: 5692

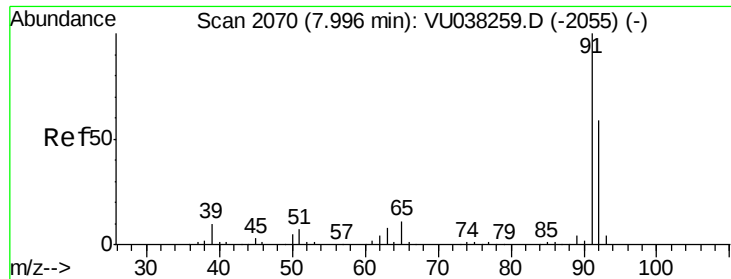
Ion Ratio Lower Upper

83 100

85 12.0 44.6 82.8#

127 0.0 6.4 9.6#





#42

Toluene

Concen: 2.837 ug/L

RT: 8.01 min Scan# 2074

Delta R.T. 0.01 min

Lab File: VU038264.D

Acq: 21 May 2020 15:07

Instrument :

MSVOA_U

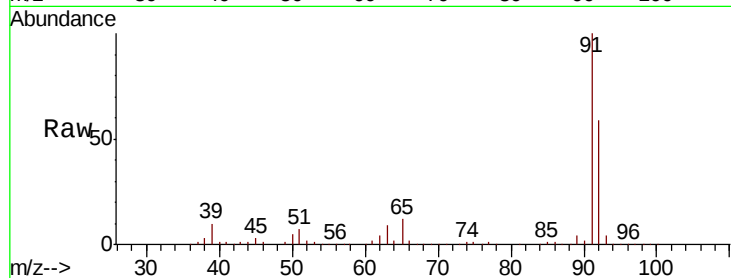
ClientSampled :

Tot Ion: 91 Resp: 342708

Ion Ratio Lower Upper

91 100

92 59.4 40.9 75.9



Abundance Ion 91.15 (90.85 to 91.85): VU038259.D (-2055) (-)

Ion 92.15 (91.85 to 92.85): VU038259.D (-2055) (-)

8.01

200000

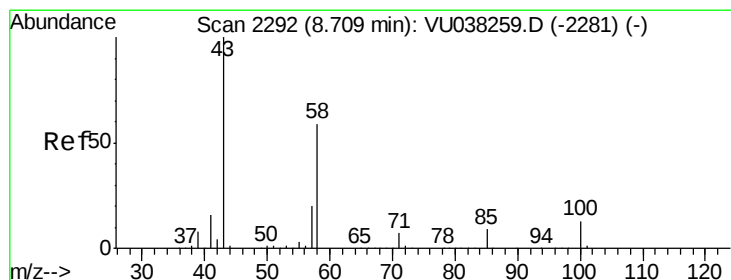
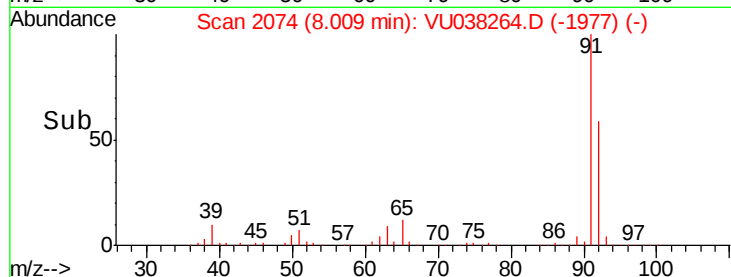
150000

100000

50000

0

Time-->



#48

2-Hexanone

Concen: 3.555 ug/L

RT: 8.73 min Scan# 2298

Delta R.T. 0.02 min

Lab File: VU038264.D

Acq: 21 May 2020 15:07

Tgt Ion: 43 Resp: 56085

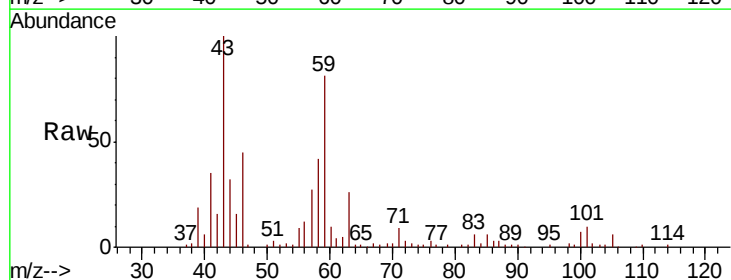
Ion Ratio Lower Upper

43 100

58 46.5 45.2 67.8

57 38.5 15.5 23.3#

100 8.6 9.5 14.3#



Abundance Ion 43.05 (42.75 to 43.75): VU038259.D (-2281) (-)

Ion 58.05 (57.75 to 58.75): VU038259.D (-2281) (-)

Ion 57.20 (56.90 to 57.90): VU038259.D (-2281) (-)

Ion 100.15 (99.85 to 100.85): VU038259.D (-2281) (-)

200000

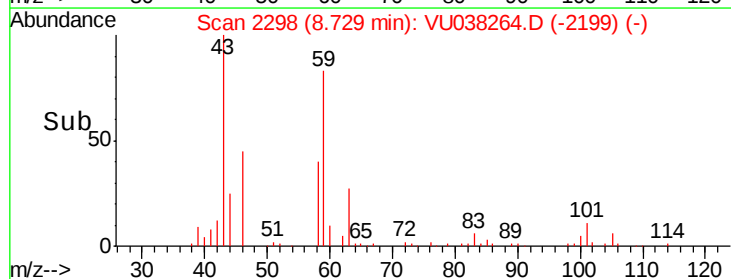
150000

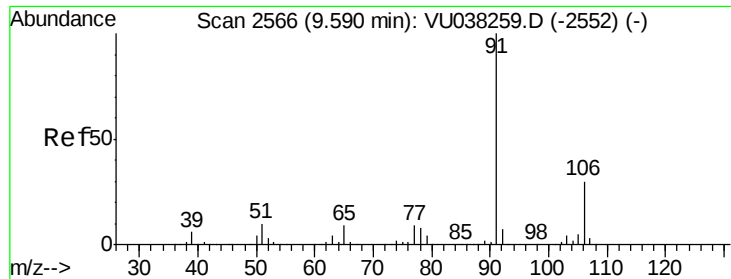
100000

50000

0

Time-->





#52

Ethylbenzene

Concen: 12.526 ug/L

RT: 9.60 min Scan# 2568

Delta R.T. 0.01 min

Lab File: VU038264.D

Acq: 21 May 2020 15:07

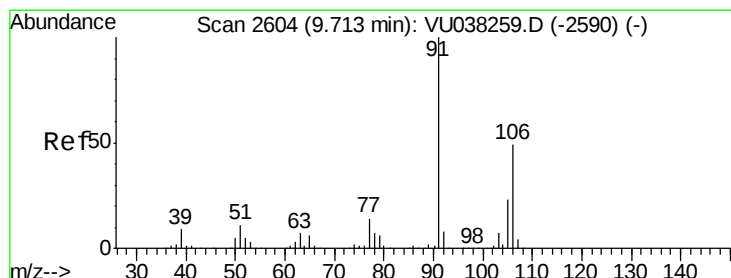
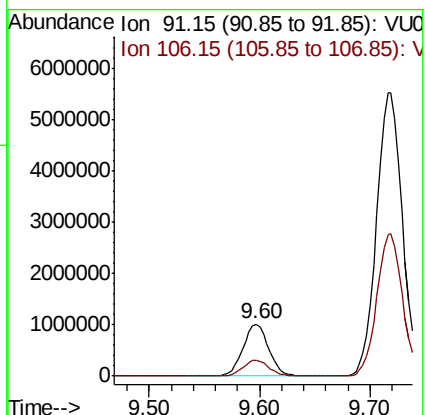
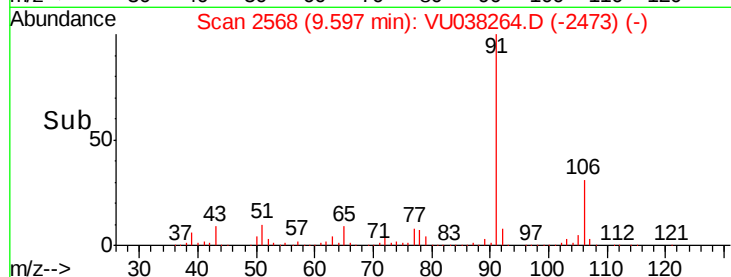
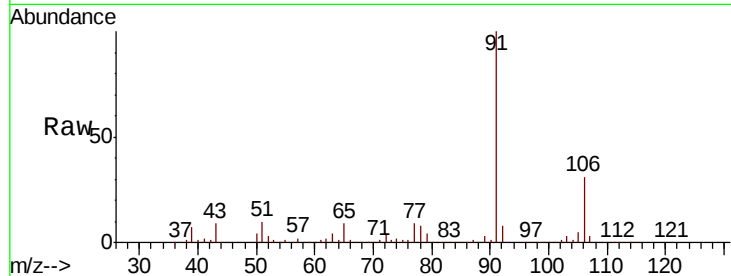
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 91 Resp: 1639210

Ion Ratio Lower Upper

91 100

106 31.1 21.8 40.4



#53

m,p-Xylene

Concen: 90.346 ug/L

RT: 9.72 min Scan# 2606

Delta R.T. 0.01 min

Lab File: VU038264.D

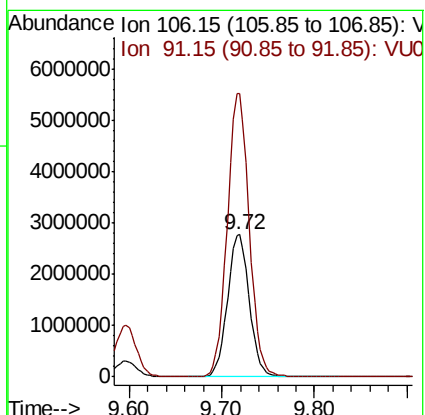
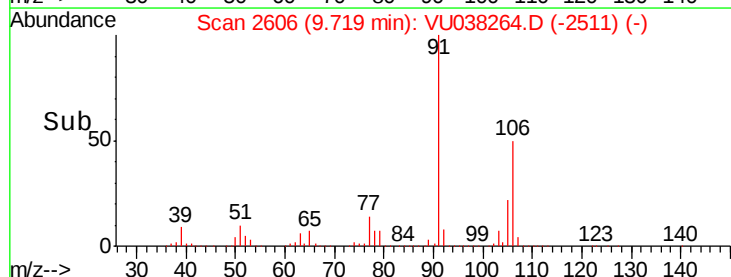
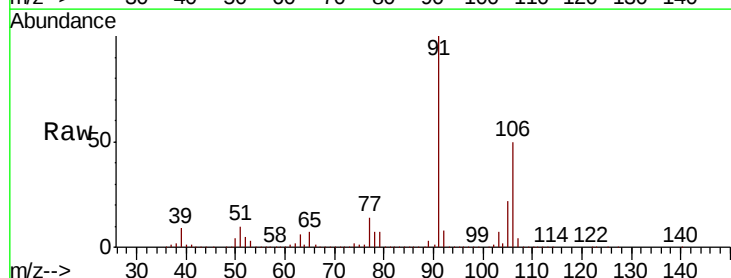
Acq: 21 May 2020 15:07

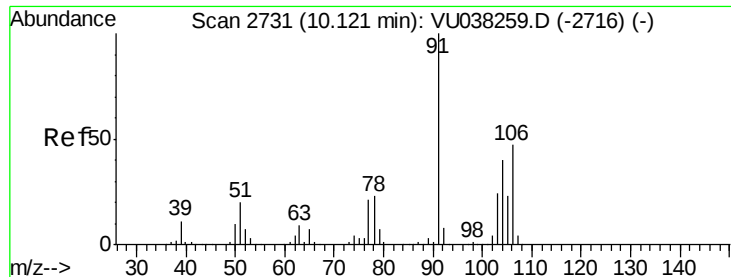
Tgt Ion: 106 Resp: 4533493

Ion Ratio Lower Upper

106 100

91 198.8 142.1 263.9

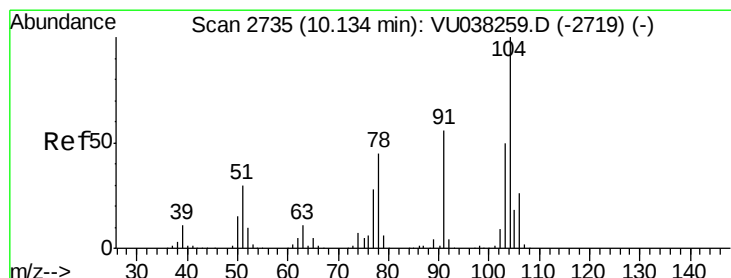
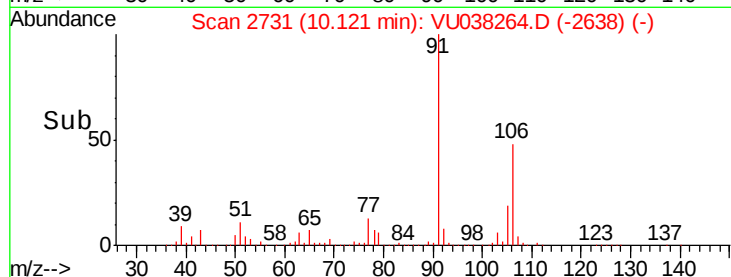
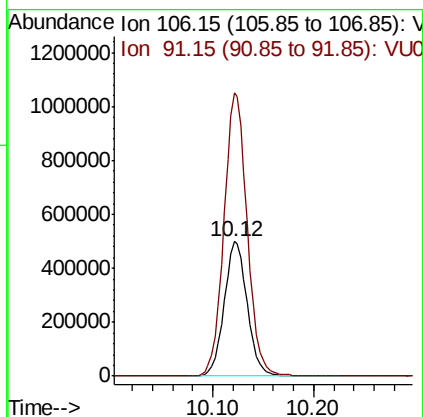
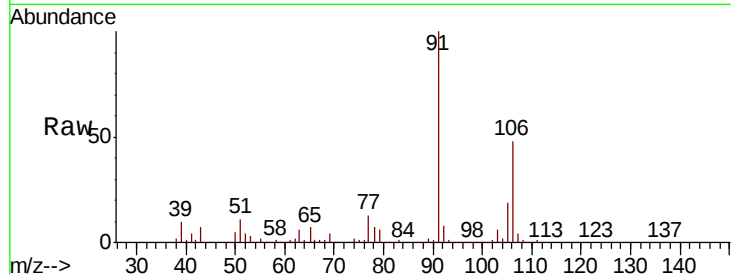




#54
o-Xylene
Concen: 16.434 ug/L
RT: 10.12 min Scan# 2731
Delta R.T. 0.00 min
Lab File: VU038264.D
Acq: 21 May 2020 15:07

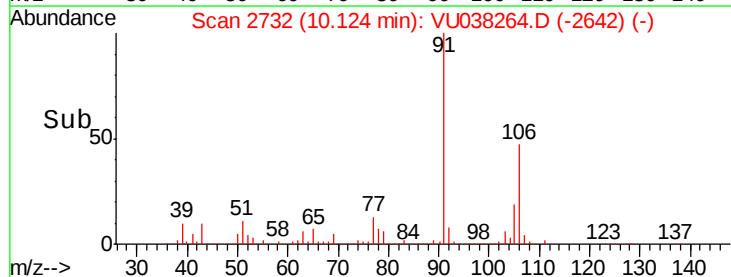
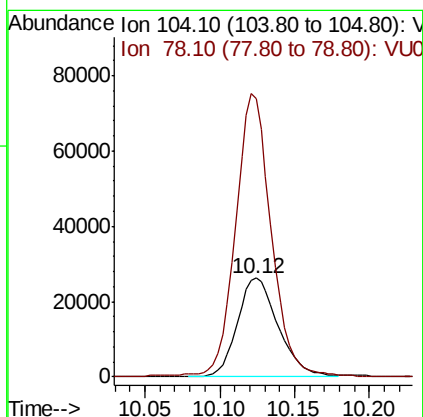
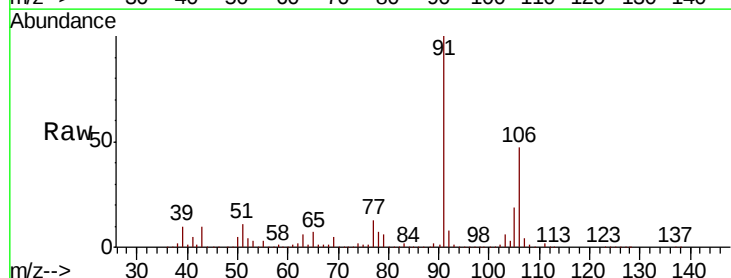
Instrument :
MSVOA_U
ClientSampled :

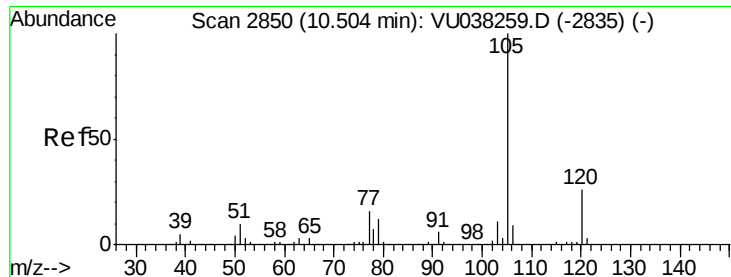
Tot Ion:106 Resp: 797320
Ion Ratio Lower Upper
106 100
91 210.5 148.5 275.9



#55
Styrene
Concen: 0.616 ug/L
RT: 10.12 min Scan# 2732
Delta R.T. -0.01 min
Lab File: VU038264.D
Acq: 21 May 2020 15:07

Tgt Ion:104 Resp: 50170
Ion Ratio Lower Upper
104 100
78 282.4 32.3 59.9#





#56

Isopropylbenzene

Concen: 41.336 ug/L

RT: 10.50 min Scan# 2850

Delta R.T. 0.00 min

Lab File: VU038264.D

Acq: 21 May 2020 15:07

Instrument :

MSVOA_U

ClientSampleId :

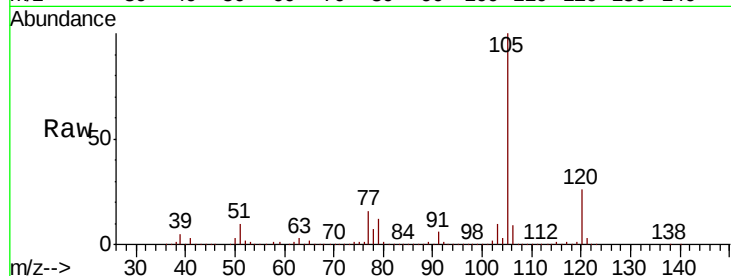
Tot Ion:105 Resp: 5151452

Ion Ratio Lower Upper

105 100

120 25.9 21.0 31.6

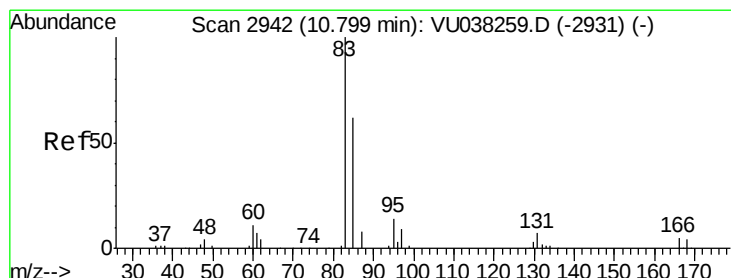
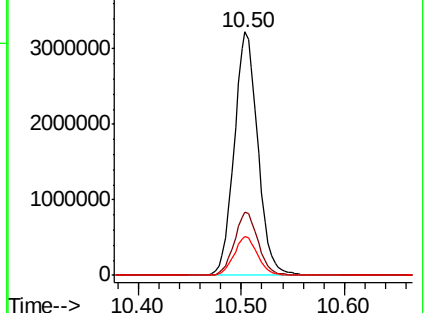
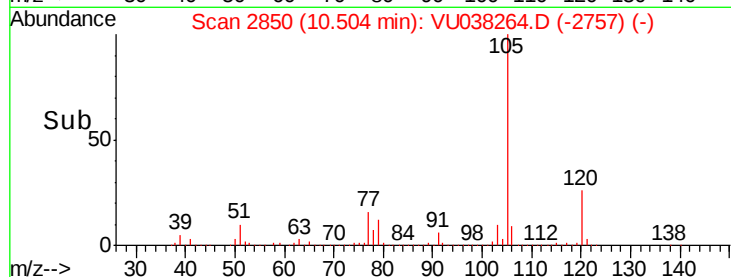
77 15.9 13.0 19.4



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): V



#58

1,1,2,2-Tetrachloroethane

Concen: 0.383 ug/L

RT: 10.81 min Scan# 2946

Delta R.T. 0.01 min

Lab File: VU038264.D

Acq: 21 May 2020 15:07

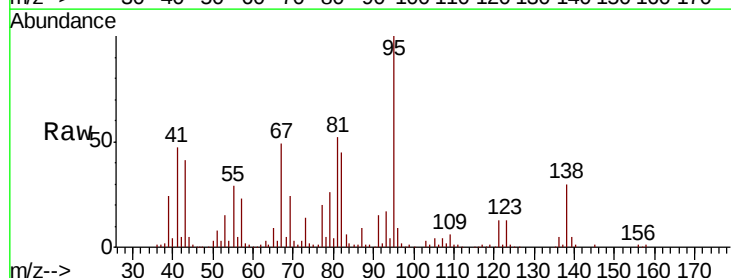
Tgt Ion: 83 Resp: 10509

Ion Ratio Lower Upper

83 100

85 20.8 47.0 87.2#

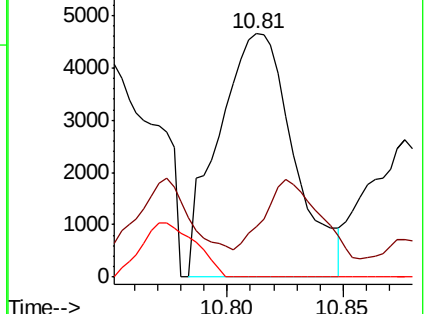
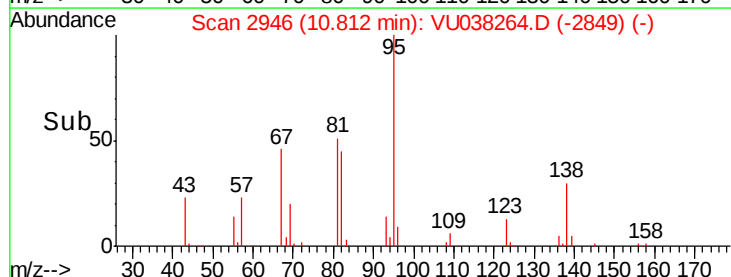
131 0.0 7.7 11.5#

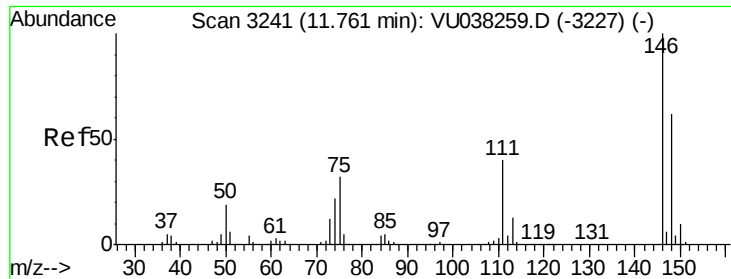


Abundance Ion 82.95 (82.65 to 83.65): VU

Ion 85.00 (84.70 to 85.70): VU

Ion 130.95 (130.65 to 131.65): V





#62

1,3-Dichlorobenzene

Concen: 0.641 ug/L

RT: 11.76 min Scan# 3241

Delta R.T. 0.00 min

Lab File: VU038264.D

Acq: 21 May 2020 15:07

Instrument :

MSVOA_U

ClientSampleId :

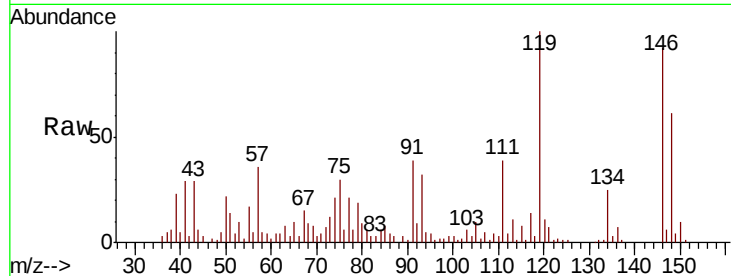
Tot Ion:146 Resp: 38210

Ion Ratio Lower Upper

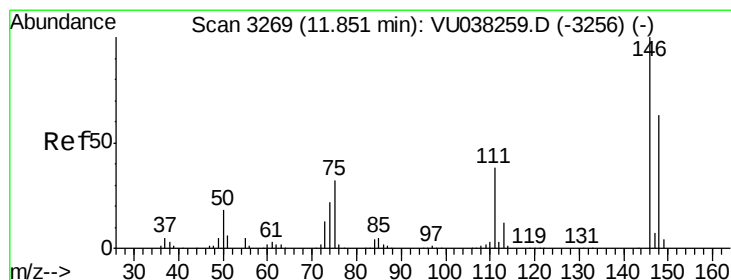
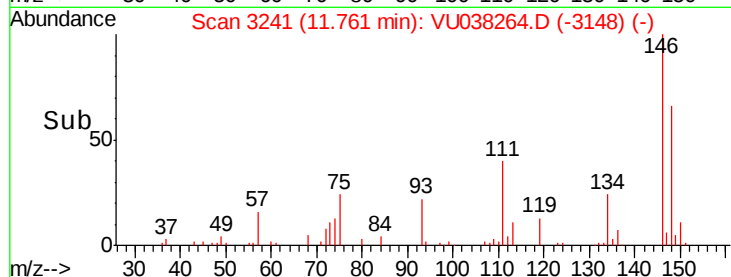
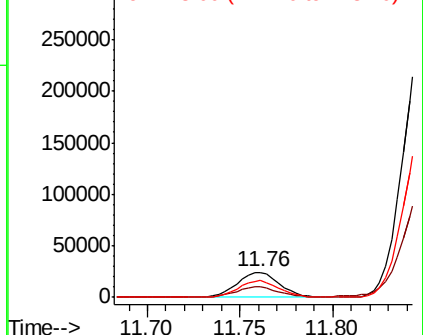
146 100

111 42.7 28.6 53.2

148 66.4 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: 7.154 ug/L

RT: 11.85 min Scan# 3269

Delta R.T. 0.00 min

Lab File: VU038264.D

Acq: 21 May 2020 15:07

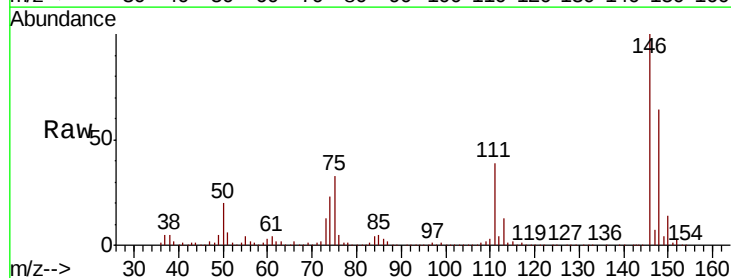
Tgt Ion:146 Resp: 432179

Ion Ratio Lower Upper

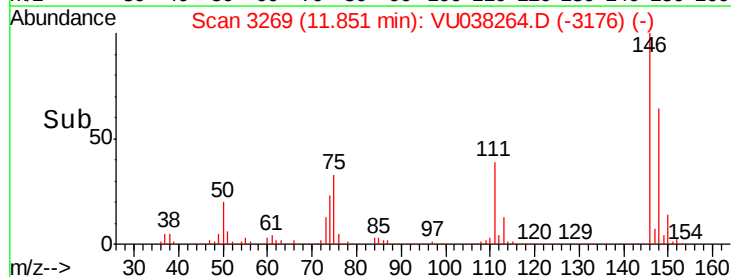
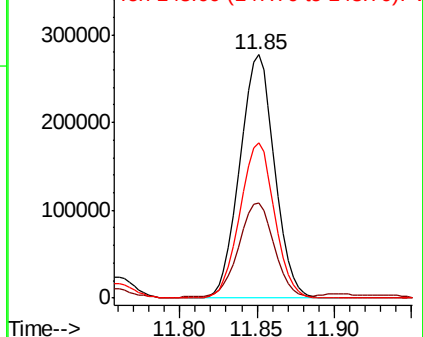
146 100

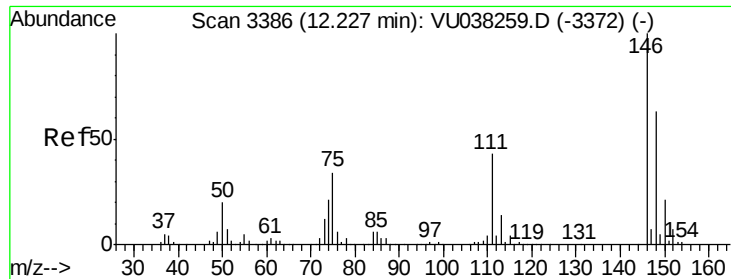
111 39.0 27.2 50.6

148 64.0 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: 5.536 ug/L

RT: 12.22 min Scan# 3385

Delta R.T. -0.00 min

Lab File: VU038264.D

Acq: 21 May 2020 15:07

Instrument :

MSVOA_U

ClientSampled :

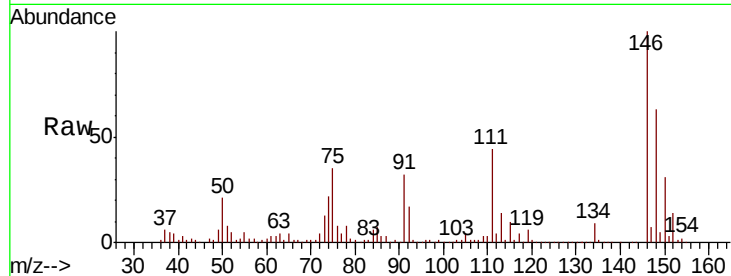
Tot Ion:146 Resp: 317489

Ion Ratio Lower Upper

146 100

111 43.6 35.3 52.9

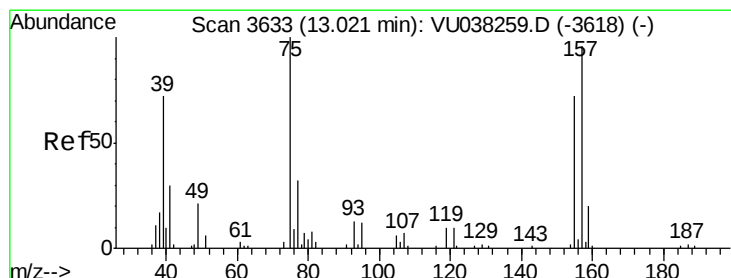
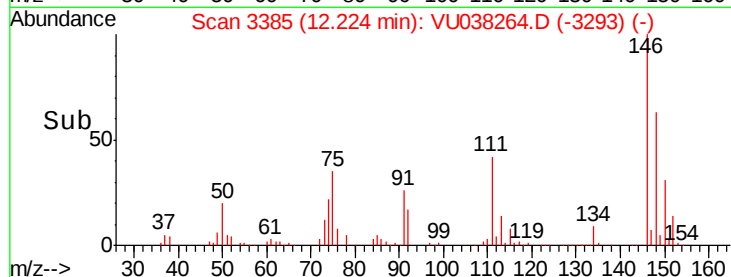
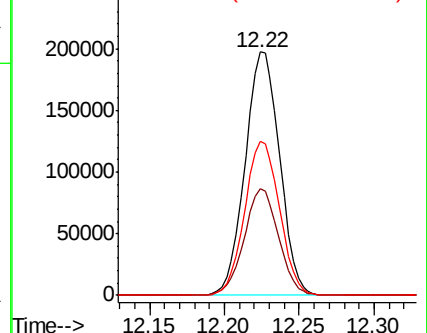
148 63.1 51.0 76.4



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



#66

1,2-Dibromo-3-chloropropane

Concen: 0.863 ug/L

RT: 13.00 min Scan# 3625

Delta R.T. -0.03 min

Lab File: VU038264.D

Acq: 21 May 2020 15:07

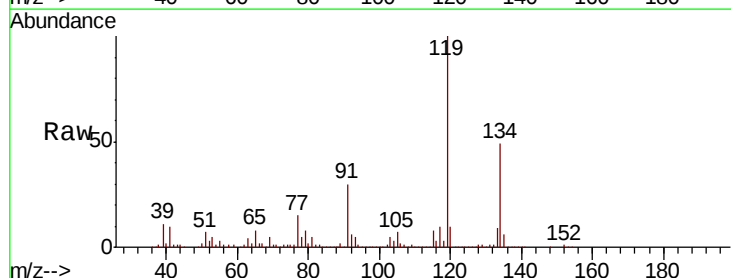
Tgt Ion: 75 Resp: 4043

Ion Ratio Lower Upper

75 100

155 0.0 58.2 87.2#

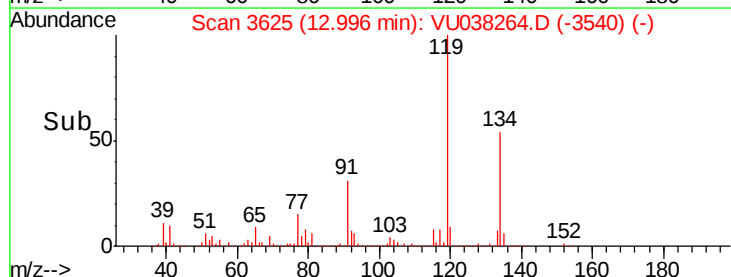
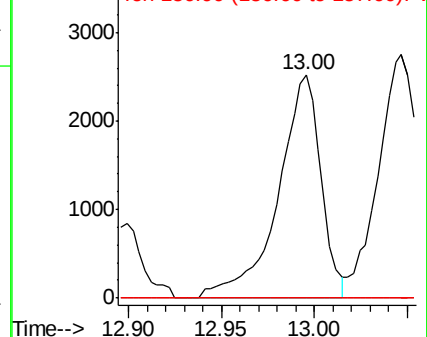
157 0.0 72.9 109.3#

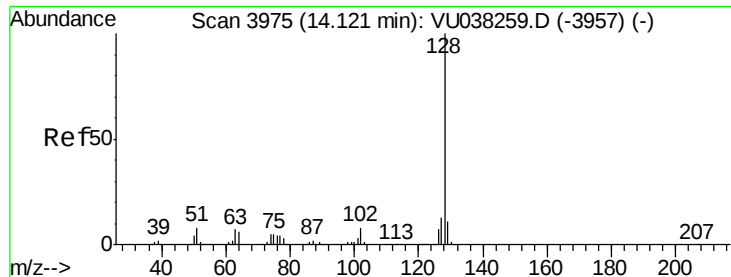


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V





#69

Naphthalene

Concen: 19.274 ug/L

RT: 14.11 min Scan# 3973

Delta R.T. -0.01 min

Lab File: VU038264.D

Acq: 21 May 2020 15:07

Instrument :

MSVOA_U

ClientSampleId :

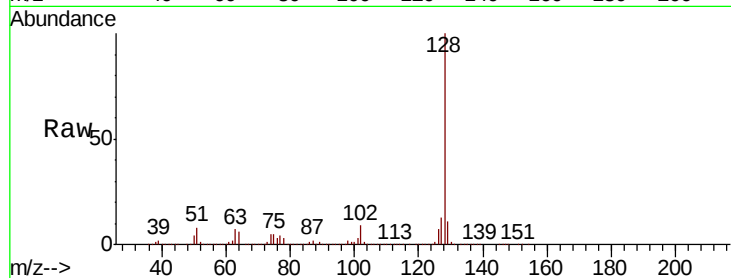
Tot Ion:128 Resp: 1592049

Ion Ratio Lower Upper

128 100

129 11.1 8.7 13.1

127 13.1 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

