

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU051120\
 Data File : VU038098.D
 Acq On : 11 May 2020 11:05
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05037

Quant Time: May 12 00:58:10 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM043020WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu May 07 13:50:08 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	685927	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	683759	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	339536	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	320887	53.19	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	106.38%
7) Chloroethane-d5	1.93	69	263508	53.69	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	107.38%
11) 1,1-Dichloroethene-d2	2.59	63	510325	51.71	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	103.42%
21) 2-Butanone-d5	4.66	46	448964	95.21	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	95.21%
24) Chloroform-d	5.10	84	481651	51.55	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	103.10%
26) 1,2-Dichloroethane-d4	5.74	65	324625	50.02	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	100.04%
32) Benzene-d6	5.76	84	1035062	51.36	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	102.72%
36) 1,2-Dichloropropane-d6	6.72	67	342406	51.24	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	102.48%
41) Toluene-d8	7.93	98	951059	51.44	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	102.88%
43) trans-1,3-Dichloropropene-	8.20	79	159045	50.76	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	101.52%
47) 2-Hexanone-d5	8.65	63	276433	95.12	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	95.12%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	462188	48.00	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	96.00%
64) 1,2-Dichlorobenzene-d4	12.21	152	346175	48.76	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	97.52%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	263460	49.367	ug/L 100
3) Chloromethane	1.53	50	321382	47.518	ug/L 100
5) Vinyl chloride	1.62	62	328692	47.828	ug/L 99
6) Bromomethane	1.87	94	181886	55.567	ug/L 97
8) Chloroethane	1.95	64	201793	48.824	ug/L 100
9) Trichlorofluoromethane	2.16	101	353178	49.446	ug/L 99
10) 1,1,2-Trichloro-1,2,2-trif	2.60	101	226262	51.543	ug/L 99
12) 1,1-Dichloroethene	2.60	96	218431	48.622	ug/L 94
13) Acetone	2.65	43	418812	137.890	ug/L 100
14) Carbon disulfide	2.82	76	686058	46.102	ug/L 98
15) Methyl Acetate	2.97	43	317280	47.978	ug/L 100
16) Methylene chloride	3.07	84	258933	48.897	ug/L 99
17) trans-1,2-Dichloroethene	3.39	96	237766	49.021	ug/L 98
18) Methyl tert-butyl Ether	3.40	73	784907	48.636	ug/L 100
19) 1,1-Dichloroethane	3.91	63	477566	49.427	ug/L 99
20) cis-1,2-Dichloroethene	4.71	96	266785	49.745	ug/L 98
22) 2-Butanone	4.74	43	527610	107.328	ug/L 99

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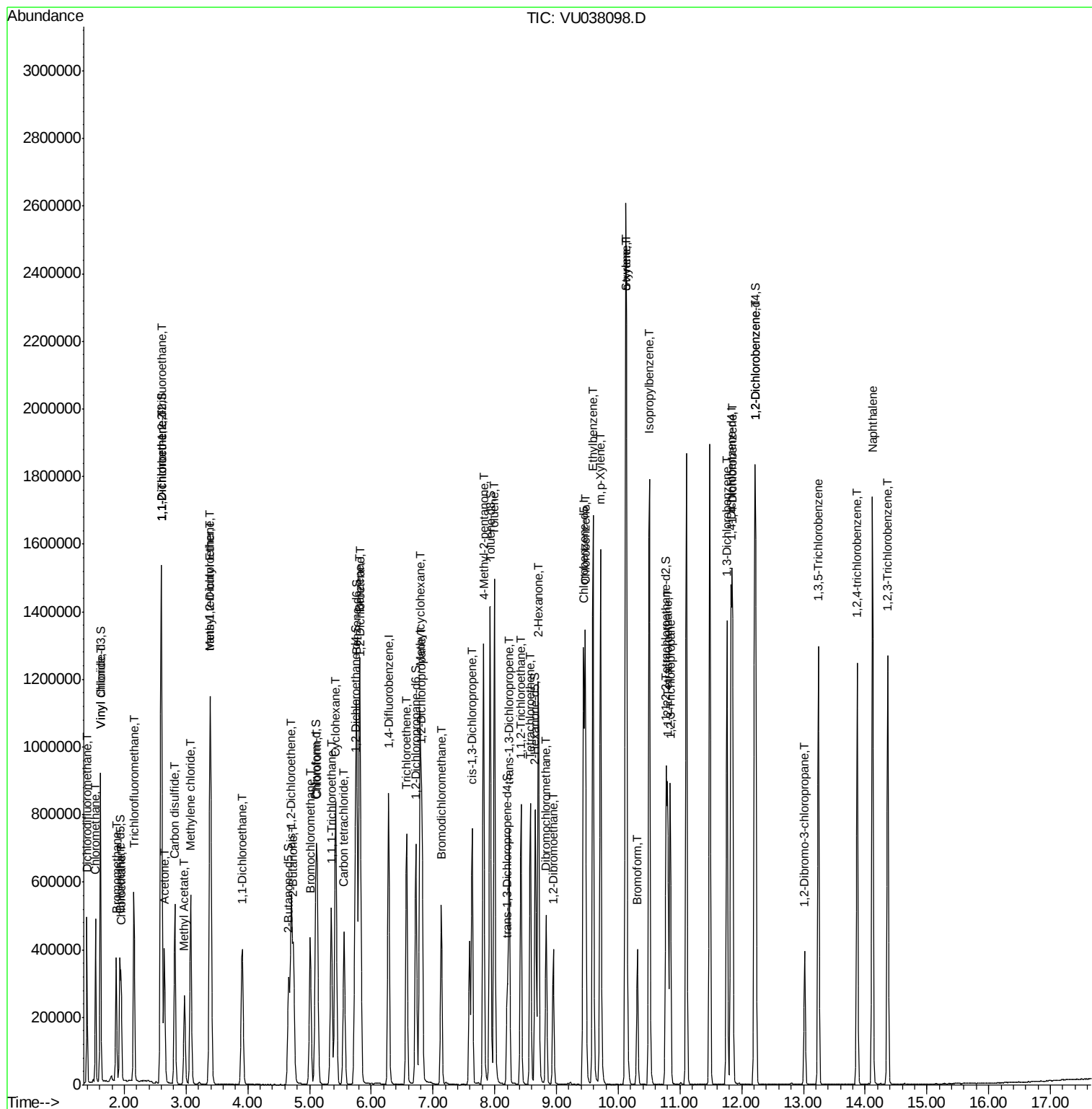
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.01	128	126896	50.302	ug/L	98
25) Chloroform	5.12	83	458623	49.448	ug/L	99
27) 1,2-Dichloroethane	5.83	62	372371	48.553	ug/L	100
29) Cyclohexane	5.42	56	443267	49.613	ug/L	99
30) 1,1,1-Trichloroethane	5.35	97	376092	49.483	ug/L	99
31) Carbon tetrachloride	5.56	117	301217	50.204	ug/L	99
33) Benzene	5.81	78	1047110	48.987	ug/L	100
34) Trichloroethene	6.57	95	253949	48.994	ug/L	99
35) Methylcyclohexane	6.79	83	430460	49.440	ug/L	100
37) 1,2-Dichloropropane	6.82	63	281780	49.307	ug/L	100
38) Bromodichloromethane	7.13	83	340457	49.066	ug/L	100
39) cis-1,3-Dichloropropene	7.63	75	428893	48.959	ug/L	98
40) 4-Methyl-2-pentanone	7.82	43	876273	94.635	ug/L	99
42) Toluene	8.00	91	1102844	49.108	ug/L	100
44) trans-1,3-Dichloropropene	8.23	75	407626	49.840	ug/L	98
45) 1,1,2-Trichloroethane	8.42	97	253233	48.925	ug/L	99
46) Tetrachloroethene	8.58	164	180607	47.725	ug/L	97
48) 2-Hexanone	8.71	43	750961	98.413	ug/L	98
49) Dibromochloromethane	8.84	129	252241	50.532	ug/L	98
50) 1,2-Dibromoethane	8.95	107	269250	48.426	ug/L #	97
51) Chlorobenzene	9.47	112	696423	49.806	ug/L	99
52) Ethylbenzene	9.59	91	1236650	49.676	ug/L	100
53) m,p-Xylene	9.71	106	475595	50.316	ug/L	99
54) o-xylene	10.12	106	467410	50.226	ug/L	97
55) Styrene	10.13	104	790582	50.014	ug/L	100
56) Isopropylbenzene	10.50	105	1216011	50.748	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.80	83	440720	47.695	ug/L	99
59) 1,2,3-Trichloropropane	10.84	75	379131	47.847	ug/L	100
61) Bromoform	10.31	173	175967	48.469	ug/L	99
62) 1,3-Dichlorobenzene	11.76	146	536264	49.331	ug/L	100
63) 1,4-Dichlorobenzene	11.85	146	540931	49.246	ug/L	99
65) 1,2-Dichlorobenzene	12.23	146	531527	48.468	ug/L	99
66) 1,2-Dibromo-3-chloropropan	13.02	75	101414	44.304	ug/L	99
67) 1,3,5-Trichlorobenzene	13.24	180	387744	52.320	ug/L	99
68) 1,2,4-trichlorobenzene	13.87	180	366644	51.614	ug/L	98
69) Naphthalene	14.12	128	1352047	49.610	ug/L	99
70) 1,2,3-Trichlorobenzene	14.37	180	368366	52.690	ug/L	100

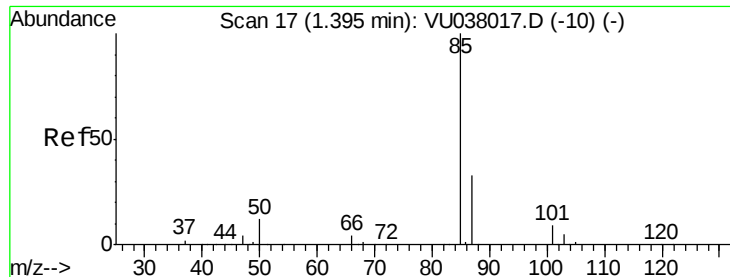
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 49.367 ug/L

RT: 1.39 min Scan# 17

Delta R.T. 0.00 min

Lab File: VU038098.D

Acq: 11 May 2020 11:05

Instrument :

MSVOA_U

ClientSampleId :

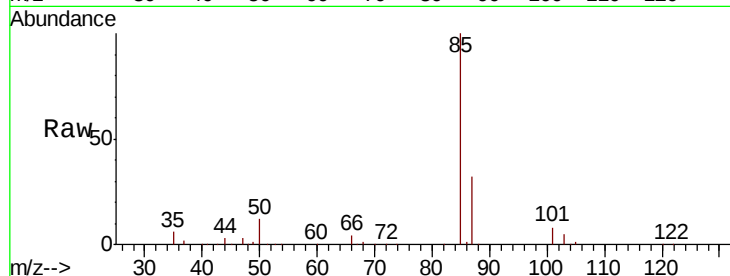
VSTD05037

Tot Ion: 85 Resp: 263460

Ion Ratio Lower Upper

85 100

87 31.5 25.4 38.2



Abundance Ion 85.00 (84.70 to 85.70): VU038017.D (-10) (-)

Ion 87.00 (86.70 to 87.70): VU038017.D (-10) (-)

1.39

250000

200000

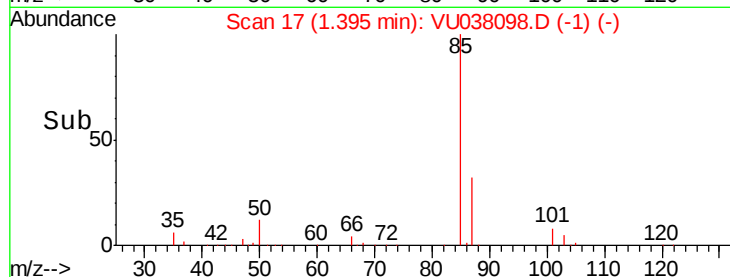
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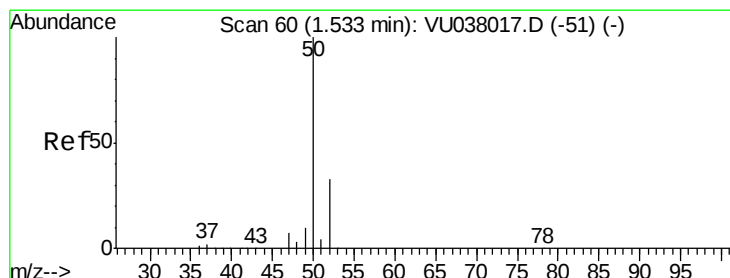
50000

0

Time-->



Time-->



#3

Chloromethane

Concen: 47.518 ug/L

RT: 1.53 min Scan# 60

Delta R.T. 0.00 min

Lab File: VU038098.D

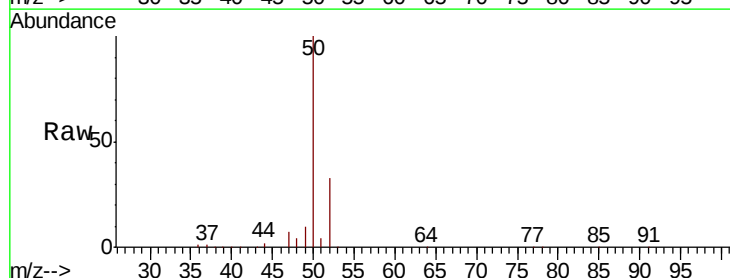
Acq: 11 May 2020 11:05

Tgt Ion: 50 Resp: 321382

Ion Ratio Lower Upper

50 100

52 32.7 22.9 42.5



Abundance Ion 50.00 (49.70 to 50.70): VU038017.D (-51) (-)

Ion 52.00 (51.70 to 52.70): VU038017.D (-51) (-)

1.53

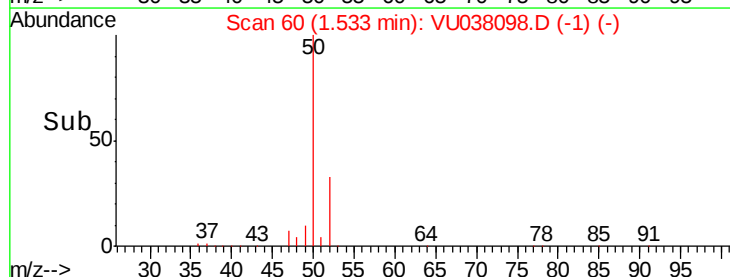
300000

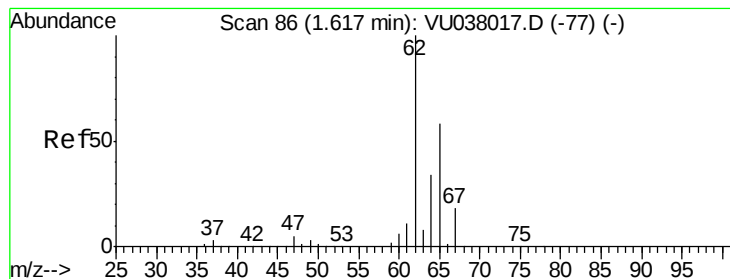
200000

100000

0

Time-->





#5

Vinyl chloride

Concen: 47.828 ug/L

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

Lab File: VU038098.D

Acq: 11 May 2020 11:05

Instrument :

MSVOA_U

ClientSampleId :

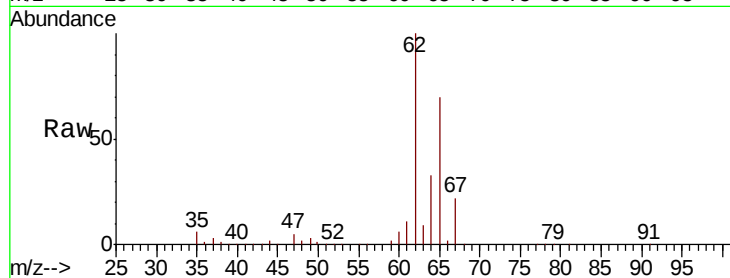
VSTD05037

Tot Ion: 62 Resp: 328692

Ion Ratio Lower Upper

62 100

64 32.8 23.2 43.2



Abundance Ion 62.00 (61.70 to 62.70): VU038017.D (-77) (-)

Ion 64.00 (63.70 to 64.70): VU038017.D (-77) (-)

1.62

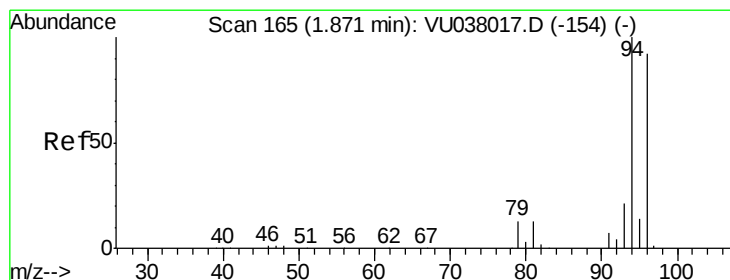
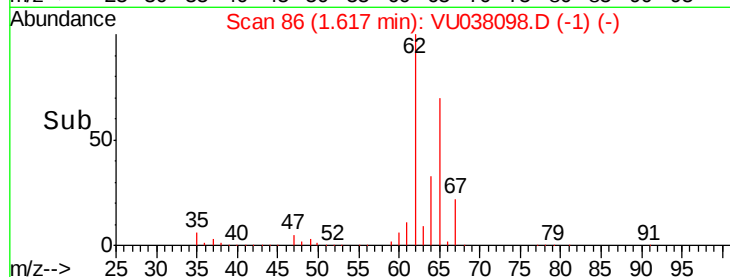
300000

200000

100000

0

Time-->



#6

Bromomethane

Concen: 55.567 ug/L

RT: 1.87 min Scan# 164

Delta R.T. -0.00 min

Lab File: VU038098.D

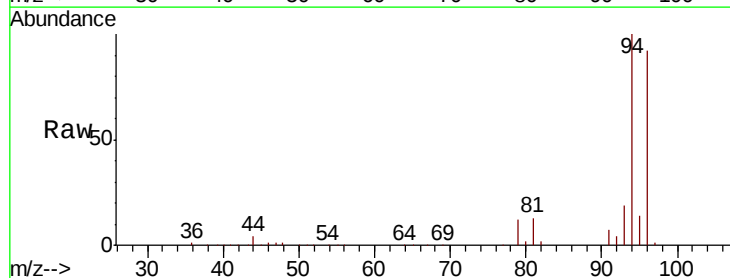
Acq: 11 May 2020 11:05

Tgt Ion: 94 Resp: 181886

Ion Ratio Lower Upper

94 100

96 91.7 65.9 122.5



Abundance Ion 94.00 (93.70 to 94.70): VU038017.D (-154) (-)

Ion 96.00 (95.70 to 96.70): VU038017.D (-154) (-)

1.87

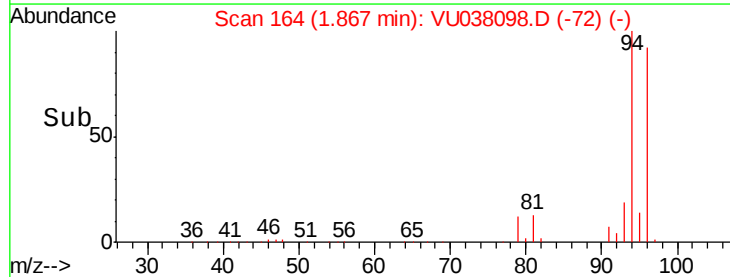
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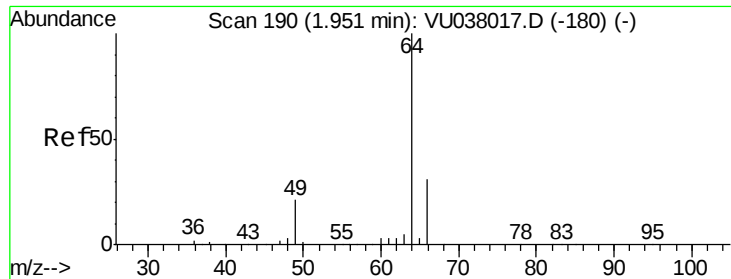
100000

50000

0

Time-->





#8

Chloroethane

Concen: 48.824 ug/L

RT: 1.95 min Scan# 189

Delta R.T. -0.00 min

Lab File: VU038098.D

Acq: 11 May 2020 11:05

Instrument :

MSVOA_U

ClientSampleId :

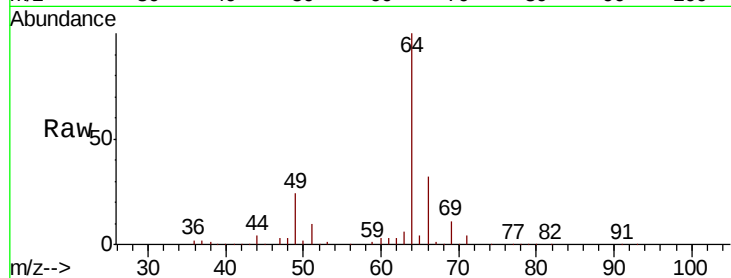
VSTD05037

Tot Ion: 64 Resp: 201793

Ion Ratio Lower Upper

64 100

66 32.2 22.5 41.7



Abundance Ion 64.00 (63.70 to 64.70): VU038017.D (-180) (-)

Ion 66.00 (65.70 to 66.70): VU038017.D (-180) (-)

1.95

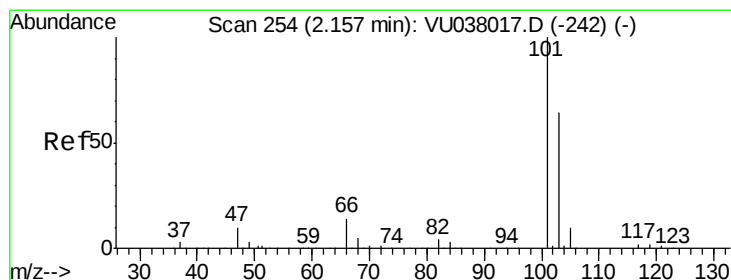
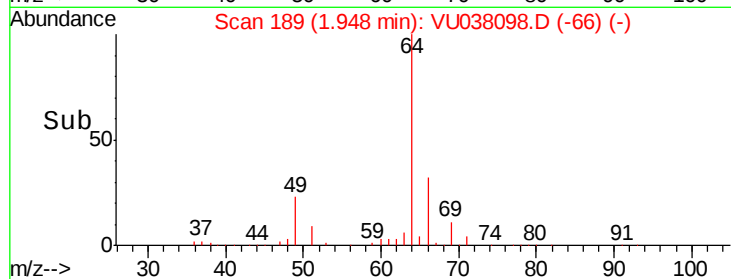
150000

100000

50000

0

Time-->



#9

Trichlorofluoromethane

Concen: 49.446 ug/L

RT: 2.16 min Scan# 254

Delta R.T. 0.00 min

Lab File: VU038098.D

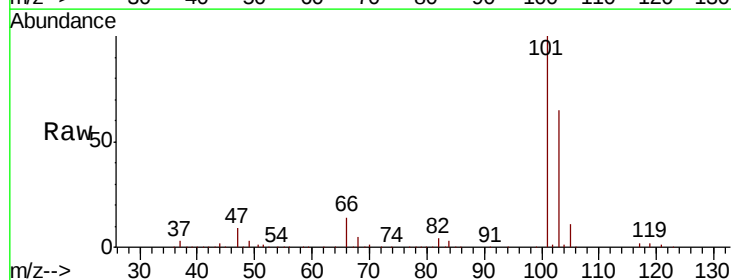
Acq: 11 May 2020 11:05

Tgt Ion:101 Resp: 353178

Ion Ratio Lower Upper

101 100

103 64.8 51.4 77.0



Abundance Ion 101.00 (100.70 to 101.70): VU038017.D (-242) (-)

Ion 103.00 (102.70 to 103.70): VU038017.D (-242) (-)

2.16

250000

200000

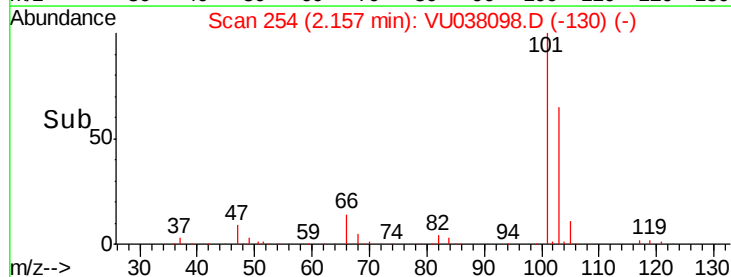
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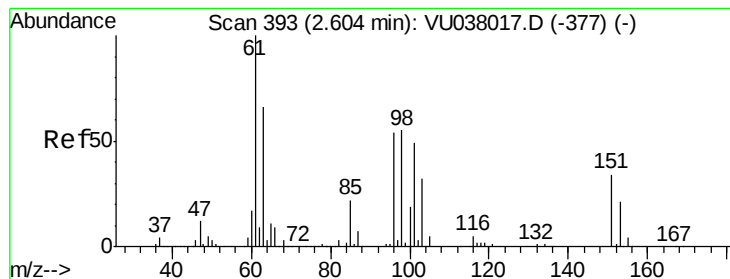
100000

50000

0

Time-->





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 51.543 ug/L

RT: 2.60 min Scan# 393

Delta R.T. 0.00 min

Lab File: VU038098.D

Acq: 11 May 2020 11:05

Instrument :

MSVOA_U

ClientSampleId :

VSTD05037

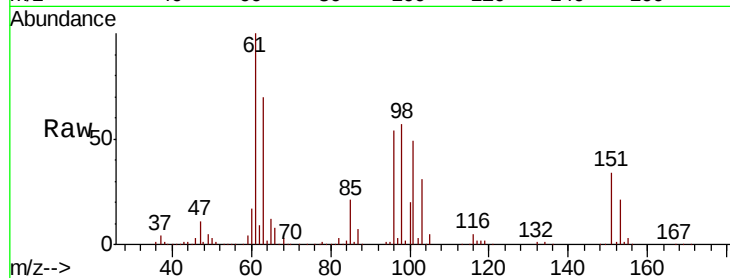
Tot Ion:101 Resp: 226262

Ion Ratio Lower Upper

101 100

85 43.4 34.7 52.1

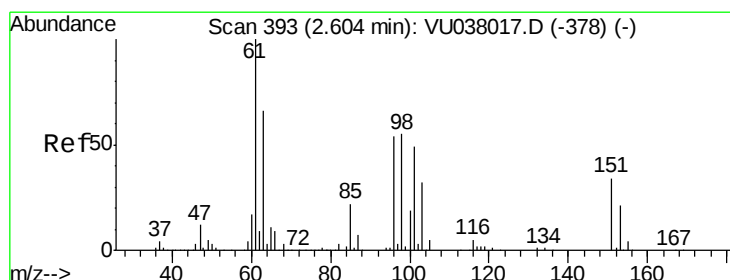
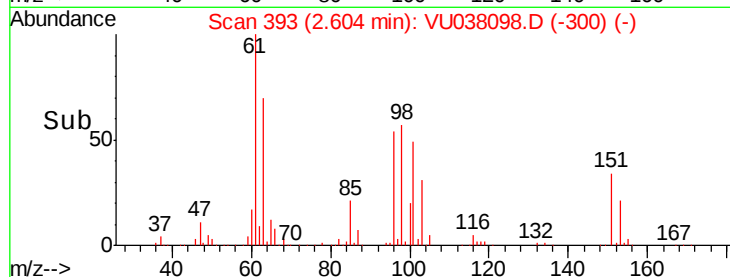
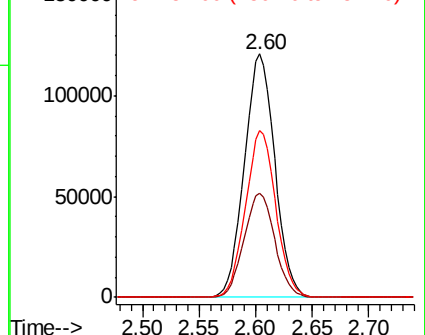
151 68.2 53.4 80.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 48.622 ug/L

RT: 2.60 min Scan# 393

Delta R.T. 0.00 min

Lab File: VU038098.D

Acq: 11 May 2020 11:05

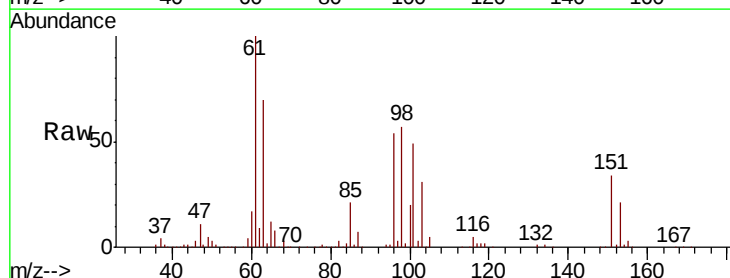
Tgt Ion: 96 Resp: 218431

Ion Ratio Lower Upper

96 100

61 186.0 126.1 234.3

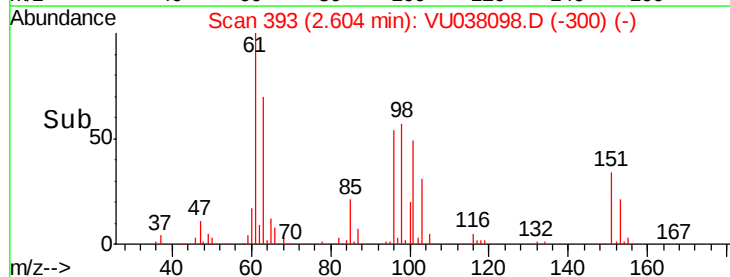
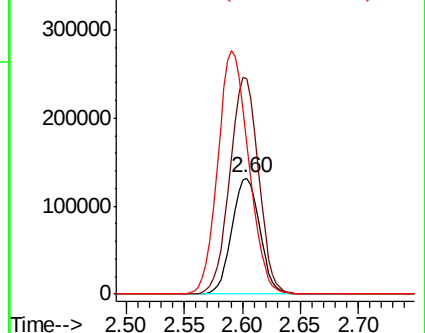
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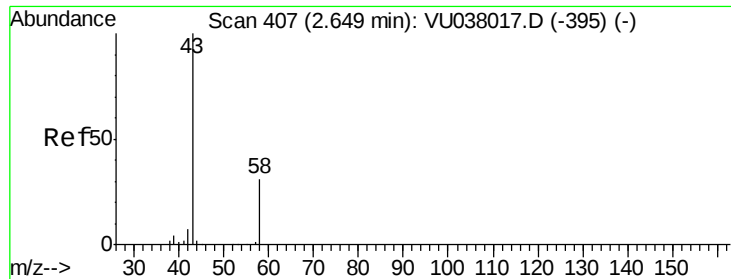


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 137.890 ug/L

RT: 2.65 min Scan# 407

Delta R.T. 0.00 min

Lab File: VU038098.D

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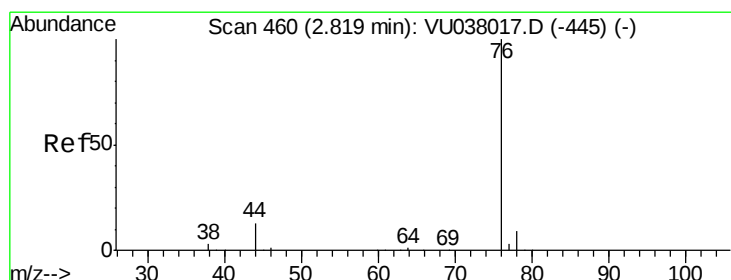
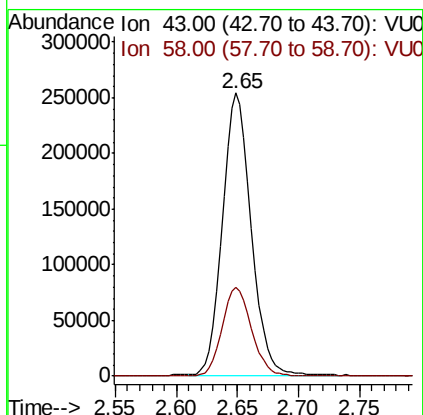
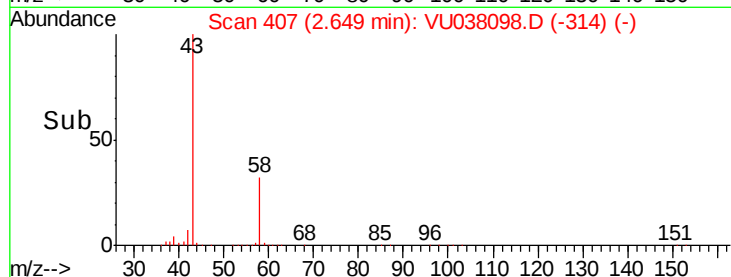
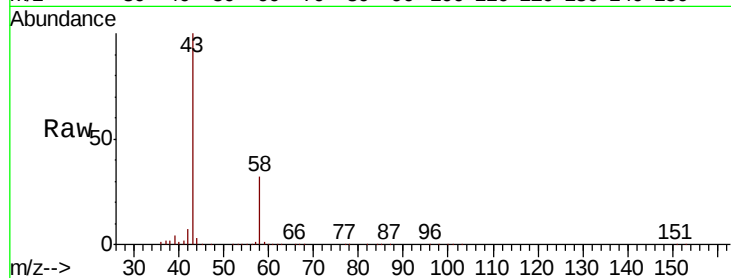
VSTD05037

Tot Ion: 43 Resp: 418812

Ion Ratio Lower Upper

43 100

58 32.4 0.0 64.4



#14

Carbon disulfide

Concen: 46.102 ug/L

RT: 2.82 min Scan# 460

Delta R.T. 0.00 min

Lab File: VU038098.D

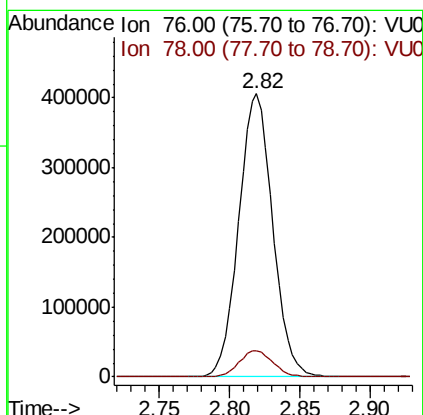
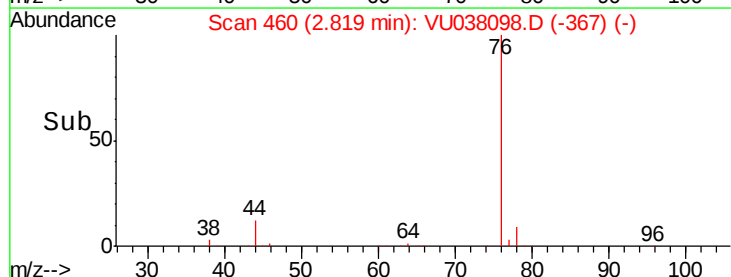
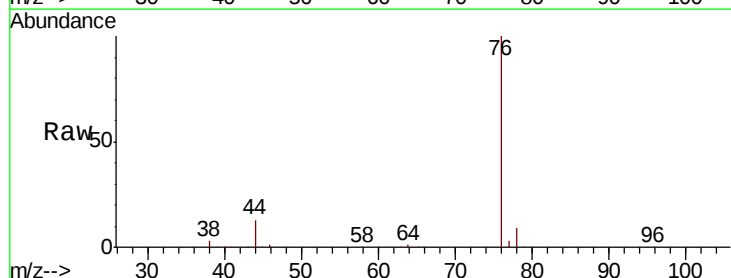
Acq: 11 May 2020 11:05

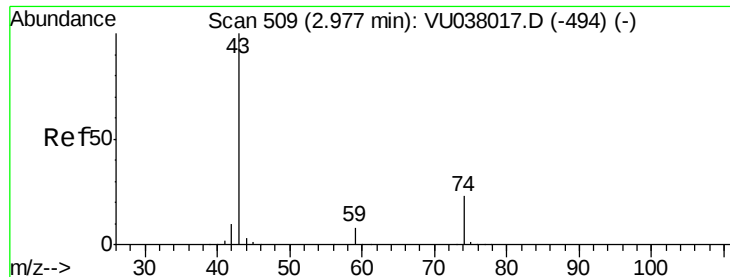
Tgt Ion: 76 Resp: 686058

Ion Ratio Lower Upper

76 100

78 9.3 7.0 10.4





#15

Methvl Acetate

Concen: 47.978 ug/L

RT: 2.97 min Scan# 508

Delta R.T. -0.00 min

Lab File: VU038098.D

Acq: 11 May 2020 11:05

Instrument :

MSVOA_U

ClientSampleId :

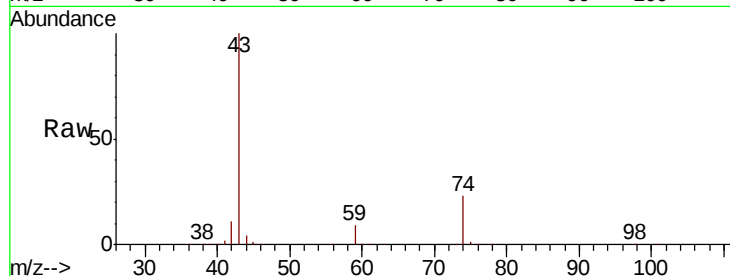
VSTD05037

Tot Ion: 43 Resp: 317280

Ion Ratio Lower Upper

43 100

74 23.1 18.6 27.8



Abundance Ion 43.00 (42.70 to 43.70): VU038017.D (-494) (-)

Ion 74.00 (73.70 to 74.70): VU038017.D (-494) (-)

200000

150000

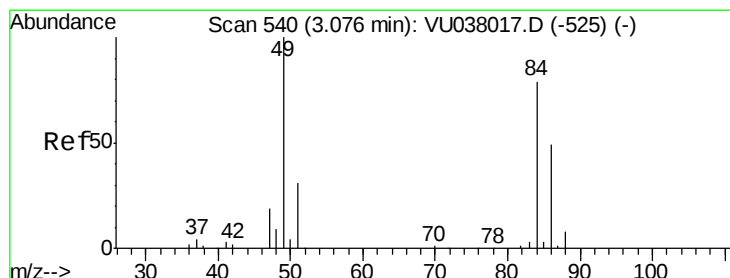
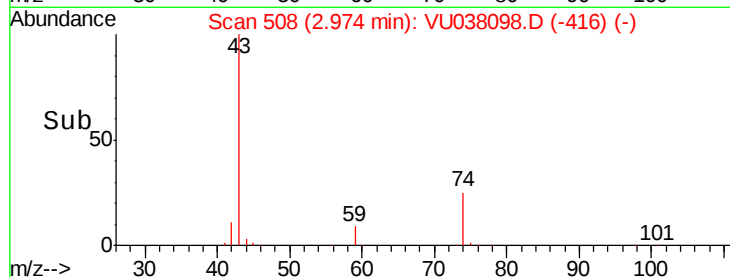
100000

50000

0

2.90 2.95 3.00 3.05 3.10

Time-->



#16

Methylene chloride

Concen: 48.897 ug/L

RT: 3.07 min Scan# 539

Delta R.T. -0.00 min

Lab File: VU038098.D

Acq: 11 May 2020 11:05

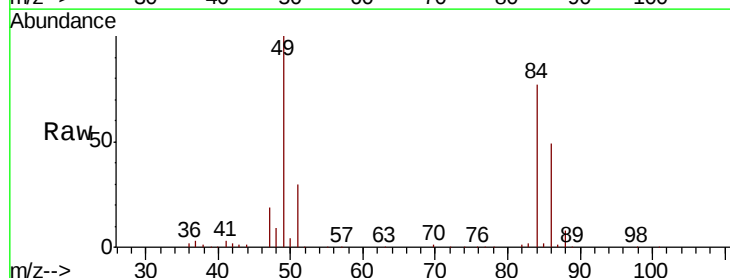
Tgt Ion: 84 Resp: 258933

Ion Ratio Lower Upper

84 100

86 63.9 45.1 83.9

49 129.6 91.2 169.4



Abundance Ion 84.00 (83.70 to 84.70): VU038017.D (-525) (-)

Ion 86.00 (85.70 to 86.70): VU038017.D (-525) (-)

Ion 49.00 (48.70 to 49.70): VU038017.D (-525) (-)

200000

150000

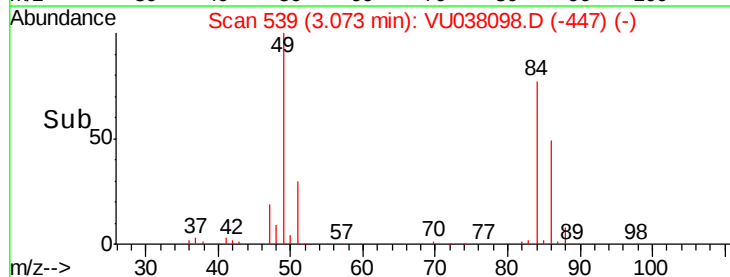
100000

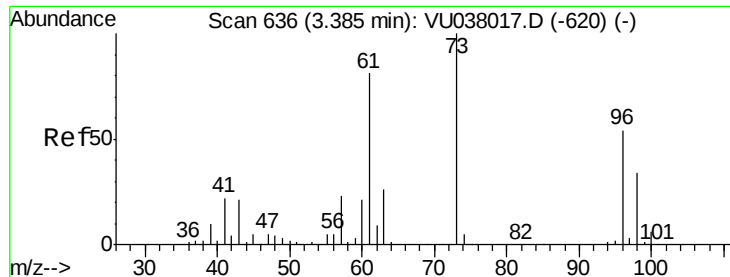
50000

0

3.00 3.05 3.10 3.15

Time-->





#17

trans-1,2-Dichloroethene

Concen: 49.021 ug/L

RT: 3.39 min Scan# 636

Delta R.T. 0.00 min

Lab File: VU038098.D

Acq: 11 May 2020 11:05

Instrument :

MSVOA_U

ClientSampleId :

VSTD05037

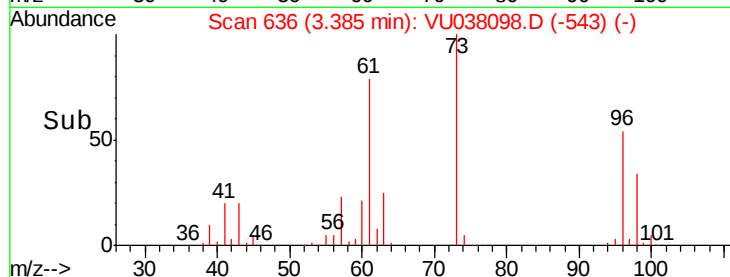
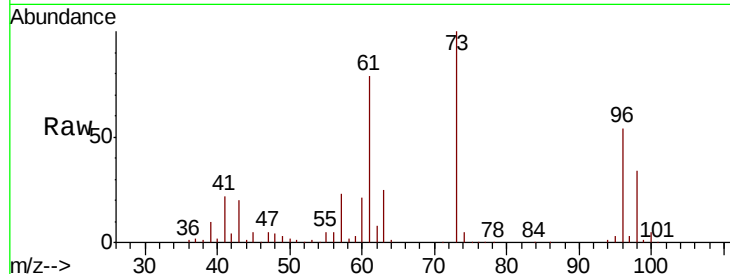
Tot Ion: 96 Resp: 237766

Ion Ratio Lower Upper

96 100

61 146.9 104.9 194.9

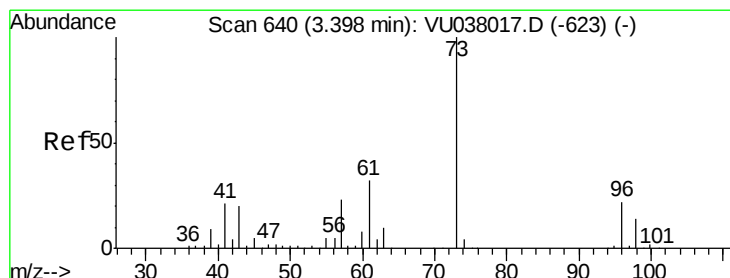
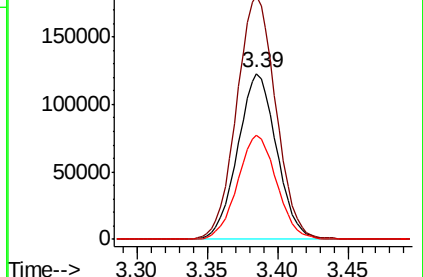
98 62.6 44.6 82.8



Abundance Ion 96.00 (95.70 to 96.70): VU038017.D (-620) (-)

Ion 61.00 (60.70 to 61.70): VU038017.D (-620) (-)

Ion 98.00 (97.70 to 98.70): VU038017.D (-620) (-)



#18

Methyl tert-butyl Ether

Concen: 48.636 ug/L

RT: 3.40 min Scan# 640

Delta R.T. 0.00 min

Lab File: VU038098.D

Acq: 11 May 2020 11:05

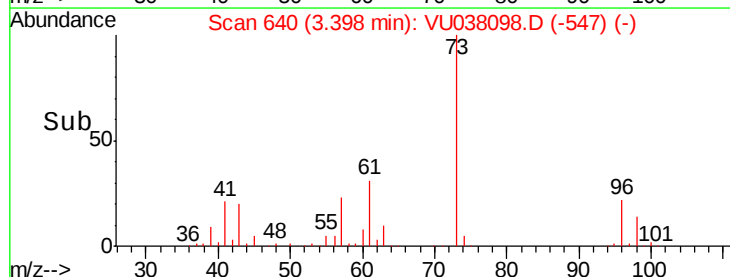
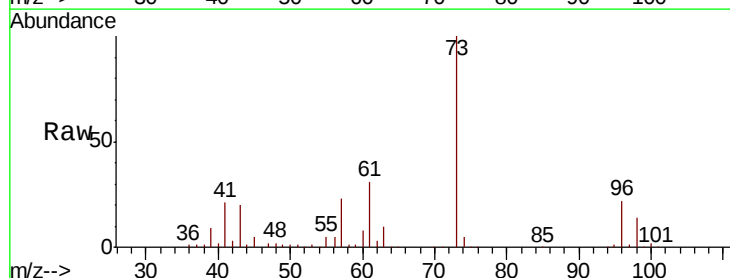
Tgt Ion: 73 Resp: 784907

Ion Ratio Lower Upper

73 100

43 20.2 16.3 24.5

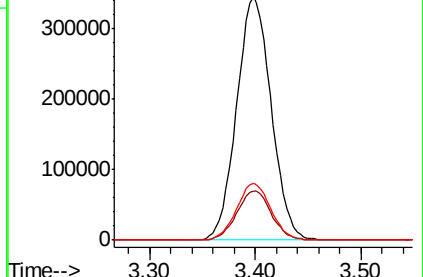
57 23.1 18.4 27.6

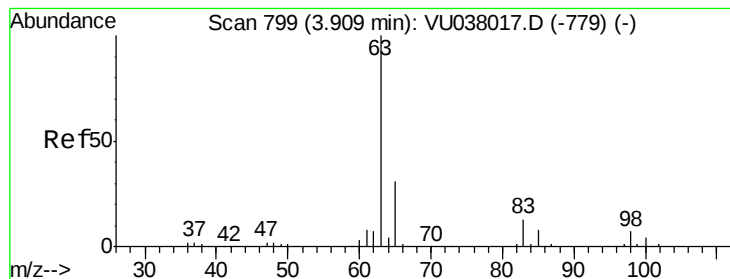


Abundance Ion 73.00 (72.70 to 73.70): VU038017.D (-623) (-)

Ion 43.00 (42.70 to 43.70): VU038017.D (-623) (-)

Ion 57.00 (56.70 to 57.70): VU038017.D (-623) (-)





#19

1,1-Dichloroethane

Concen: 49.427 ug/L

RT: 3.91 min Scan# 799

Delta R.T. 0.00 min

Lab File: VU038098.D

Acq: 11 May 2020 11:05

Instrument :

MSVOA_U

ClientSampleId :

VSTD05037

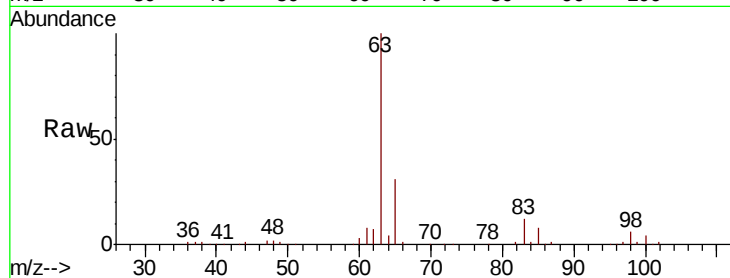
Tot Ion: 63 Resp: 477566

Ion Ratio Lower Upper

63 100

65 31.4 22.5 41.7

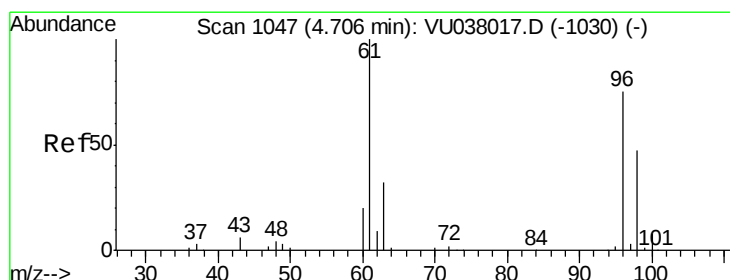
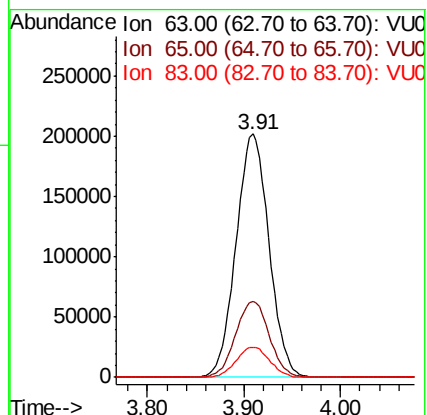
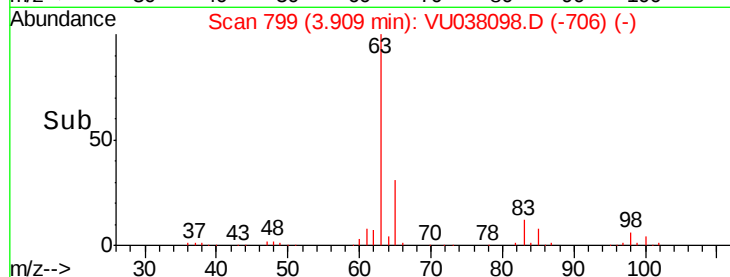
83 12.2 8.5 15.7



Abundance Ion 63.00 (62.70 to 63.70): VU038017.D (-779) (-)

Ion 65.00 (64.70 to 65.70): VU038017.D (-779) (-)

Ion 83.00 (82.70 to 83.70): VU038017.D (-779) (-)



#20

cis-1,2-Dichloroethene

Concen: 49.745 ug/L

RT: 4.71 min Scan# 1047

Delta R.T. 0.00 min

Lab File: VU038098.D

Acq: 11 May 2020 11:05

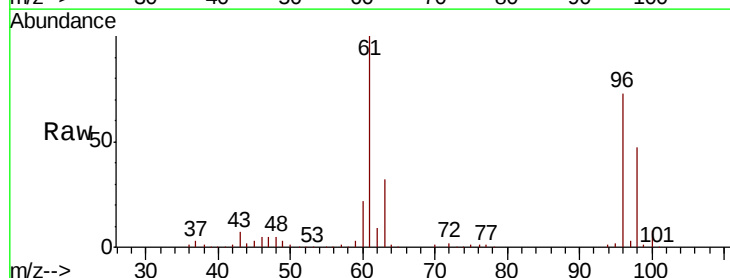
Tgt Ion: 96 Resp: 266785

Ion Ratio Lower Upper

96 100

61 136.6 93.9 174.3

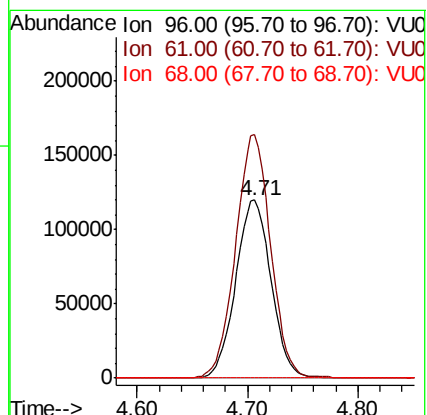
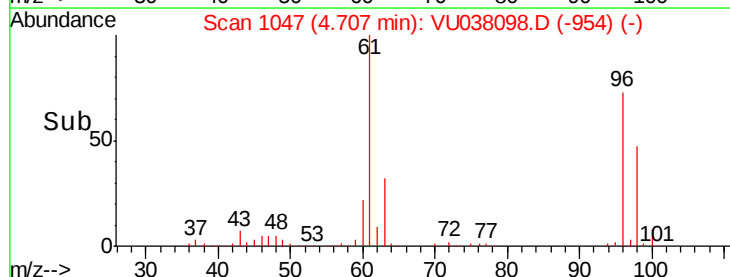
68 0.0 0.0 0.0

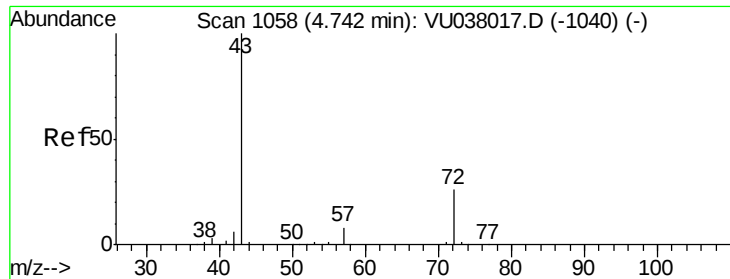


Abundance Ion 96.00 (95.70 to 96.70): VU038017.D (-1030) (-)

Ion 61.00 (60.70 to 61.70): VU038017.D (-1030) (-)

Ion 68.00 (67.70 to 68.70): VU038017.D (-1030) (-)





#22

2-Butanone

Concen: 107.328 ug/L

RT: 4.74 min Scan# 1057

Delta R.T. -0.00 min

Lab File: VU038098.D

Acq: 11 May 2020 11:05

Instrument :

MSVOA_U

ClientSampleId :

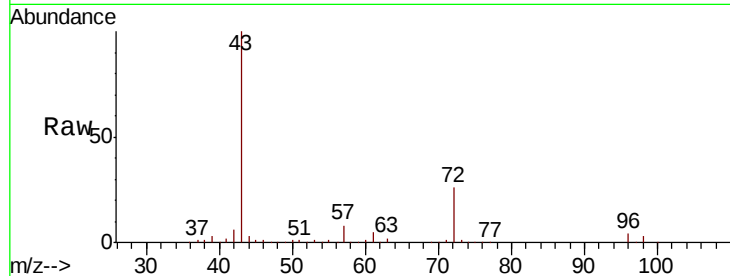
VSTD05037

Tot Ion: 43 Resp: 527610

Ion Ratio Lower Upper

43 100

72 26.3 13.4 40.1



Abundance Ion 43.00 (42.70 to 43.70): VU038017.D (-1040) (-)

Ion 72.00 (71.70 to 72.70): VU038017.D (-1040) (-)

4.74

250000

200000

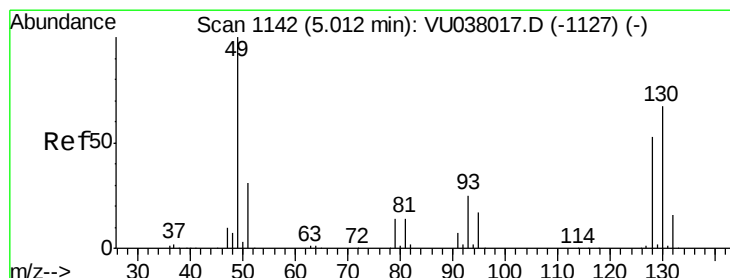
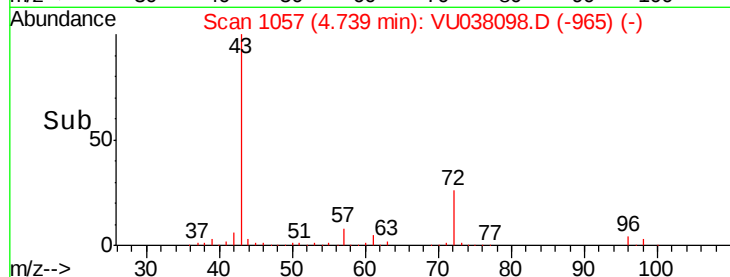
150000

100000

50000

0

Time-->



#23

Bromochloromethane

Concen: 50.302 ug/L

RT: 5.01 min Scan# 1142

Delta R.T. 0.00 min

Lab File: VU038098.D

Acq: 11 May 2020 11:05

Tgt Ion: 128 Resp: 126896

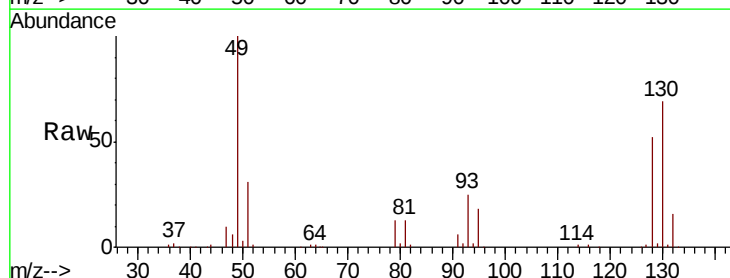
Ion Ratio Lower Upper

128 100

49 191.6 136.2 252.9

130 131.5 91.3 169.5

51 59.1 49.0 73.6



Abundance Ion 128.00 (127.70 to 128.70): VU038017.D (-1127) (-)

Ion 49.00 (48.70 to 49.70): VU038017.D (-1127) (-)

Ion 130.00 (129.70 to 130.70): VU038017.D (-1127) (-)

Ion 51.00 (50.70 to 51.70): VU038017.D (-1127) (-)

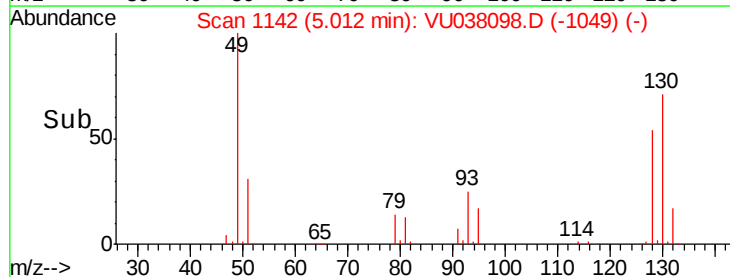
150000

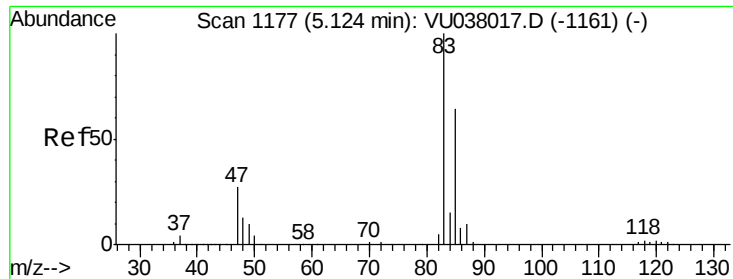
100000

50000

0

Time-->

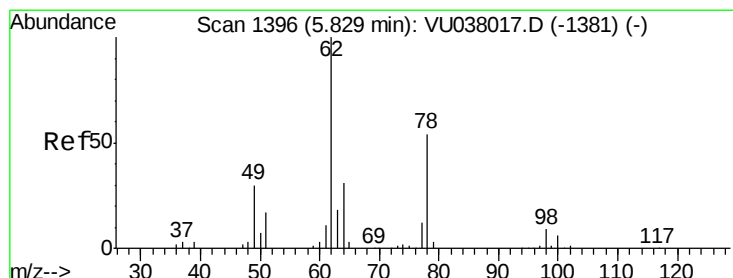
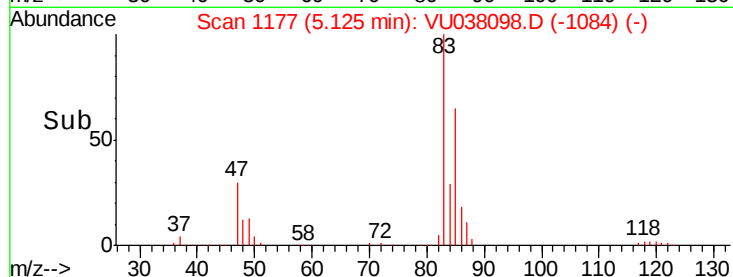
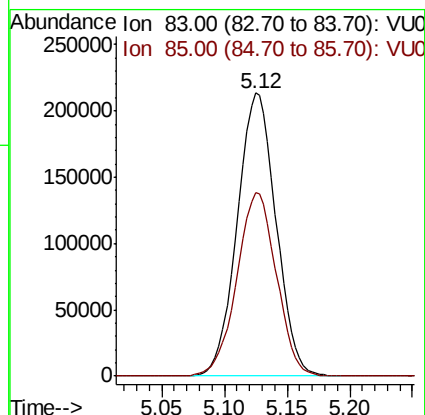
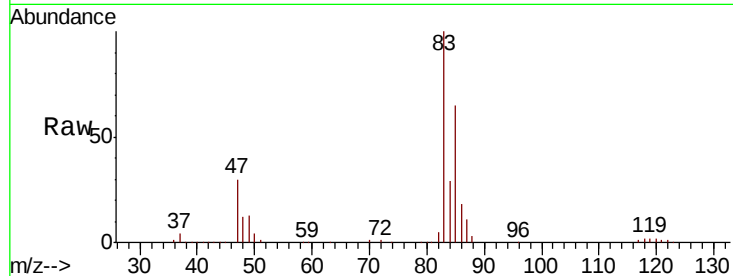




#25
Chloroform
Concen: 49.448 ug/L
RT: 5.12 min Scan# 1177
Delta R.T. 0.00 min
Lab File: VU038098.D
Acq: 11 May 2020 11:05

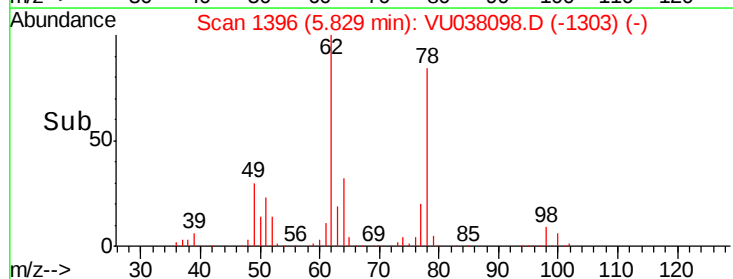
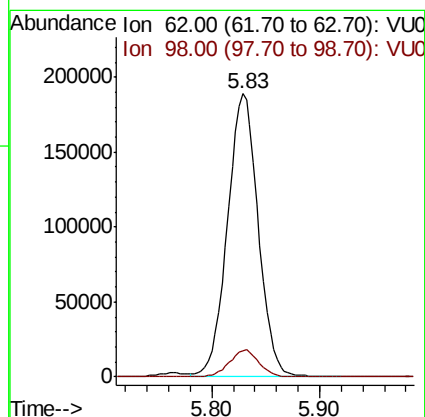
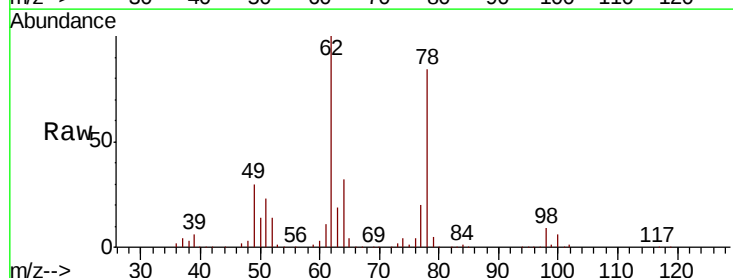
Instrument :
MSVOA_U
ClientSampleId :
VSTD05037

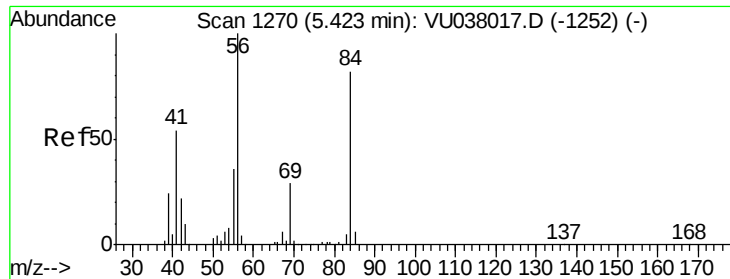
Tot Ion: 83 Resp: 458623
Ion Ratio Lower Upper
83 100
85 64.8 45.0 83.6



#27
1,2-Dichloroethane
Concen: 48.553 ug/L
RT: 5.83 min Scan# 1396
Delta R.T. 0.00 min
Lab File: VU038098.D
Acq: 11 May 2020 11:05

Tgt Ion: 62 Resp: 372371
Ion Ratio Lower Upper
62 100
98 9.4 7.6 11.4

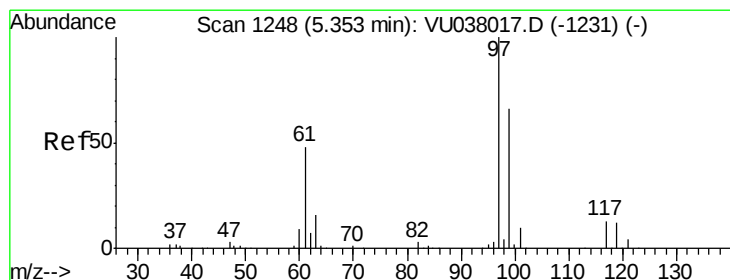
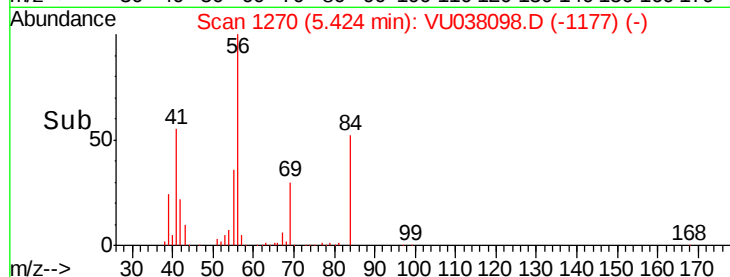
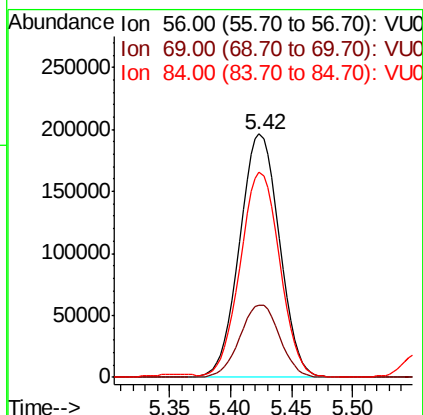
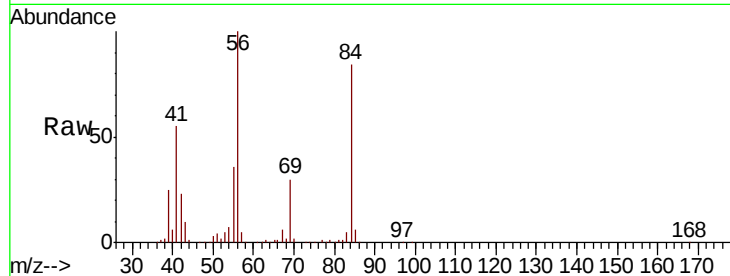




#29
Cyclohexane
Concen: 49.613 ug/L
RT: 5.42 min Scan# 1270
Delta R.T. 0.00 min
Lab File: VU038098.D
Acq: 11 May 2020 11:05

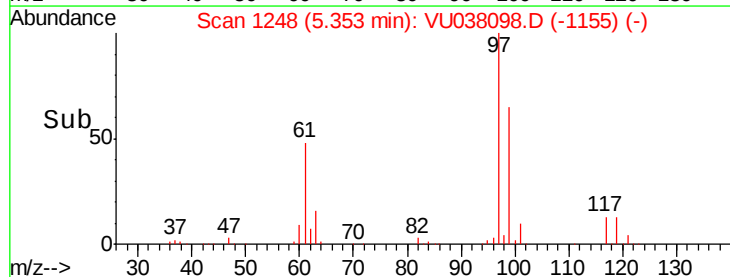
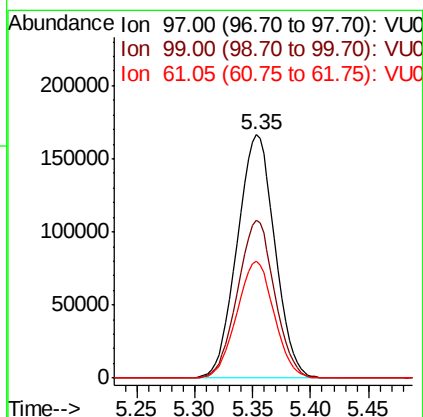
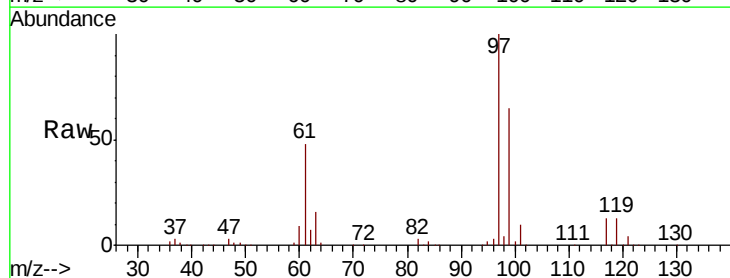
Instrument :
MSVOA_U
ClientSampleId :
VSTD05037

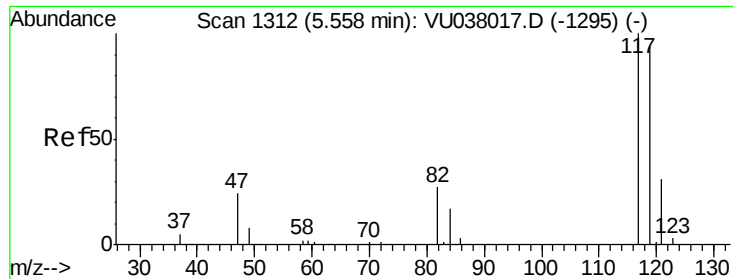
Tot Ion: 56 Resp: 443267
Ion Ratio Lower Upper
56 100
69 29.8 23.8 35.8
84 83.7 68.2 102.4



#30
1,1,1-Trichloroethane
Concen: 49.483 ug/L
RT: 5.35 min Scan# 1248
Delta R.T. 0.00 min
Lab File: VU038098.D
Acq: 11 May 2020 11:05

Tgt Ion: 97 Resp: 376092
Ion Ratio Lower Upper
97 100
99 63.7 50.5 75.7
61 47.6 38.8 58.2





#31

Carbon tetrachloride

Concen: 50.204 ug/L

RT: 5.56 min Scan# 1313

Delta R.T. 0.00 min

Lab File: VU038098.D

Acq: 11 May 2020 11:05

Instrument :

MSVOA_U

ClientSampleId :

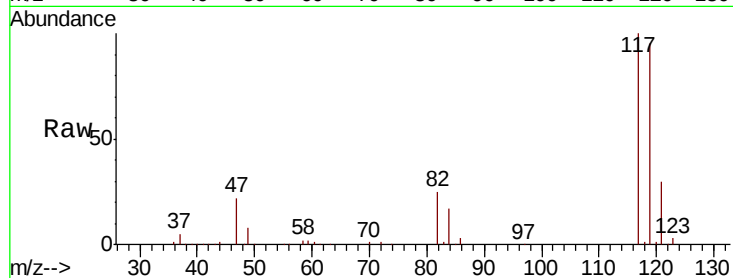
VSTD05037

Tot Ion:117 Resp: 301217

Ion Ratio Lower Upper

117 100

119 96.8 76.7 115.1



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

5.56

150000

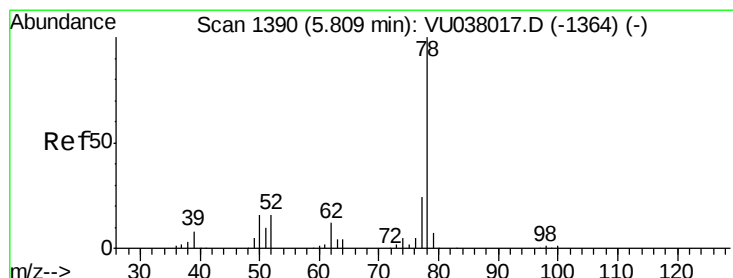
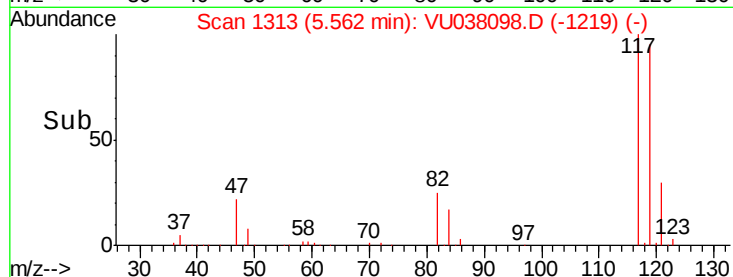
100000

50000

0

Time-->

5.45 5.50 5.55 5.60 5.65



#33

Benzene

Concen: 48.987 ug/L

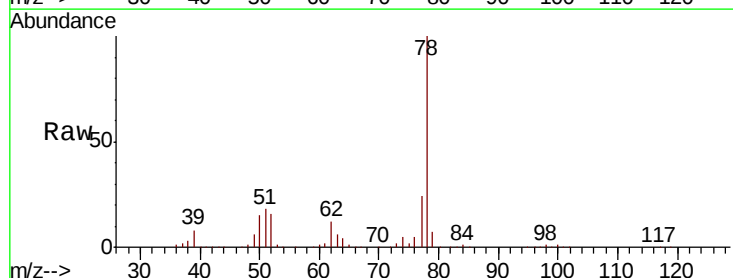
RT: 5.81 min Scan# 1390

Delta R.T. 0.00 min

Lab File: VU038098.D

Acq: 11 May 2020 11:05

Tgt Ion: 78 Resp: 1047110



Abundance Ion 78.00 (77.70 to 78.70): VU0

600000

500000

400000

300000

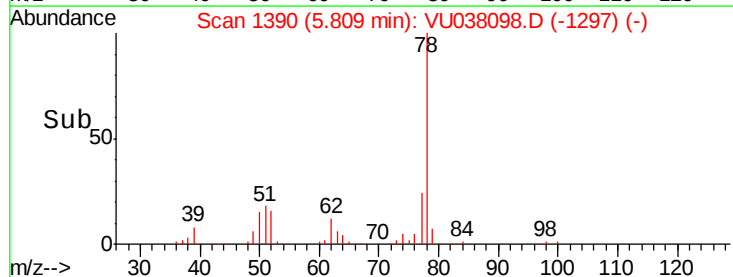
200000

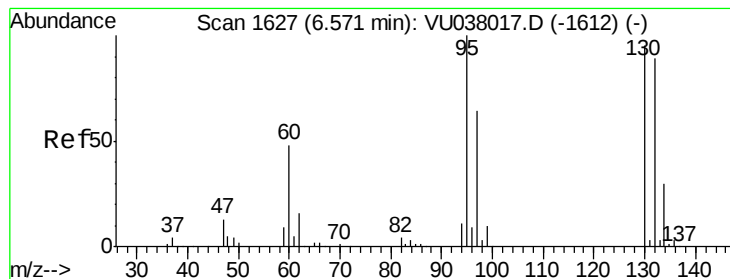
100000

0

Time-->

5.70 5.80 5.90





#34

Trichloroethene

Concen: 48.994 ug/L

RT: 6.57 min Scan# 1627

Delta R.T. 0.00 min

Lab File: VU038098.D

Acq: 11 May 2020 11:05

Instrument :

MSVOA_U

ClientSampleId :

VSTD05037

Tot Ion: 95 Resp: 253949

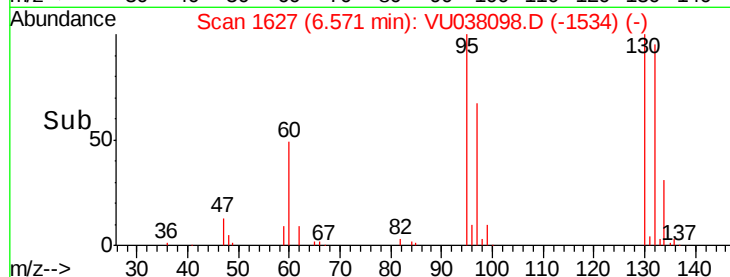
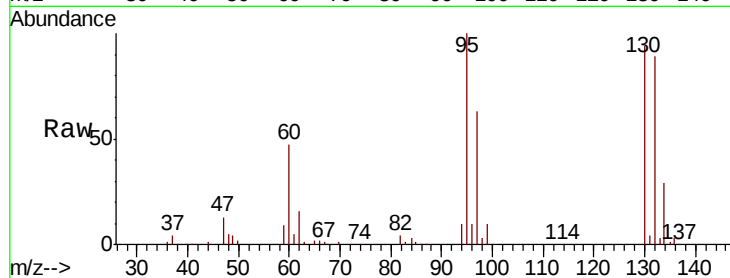
Ion Ratio Lower Upper

95 100

97 62.9 44.9 83.5

132 88.9 63.2 117.4

130 93.5 65.9 122.3

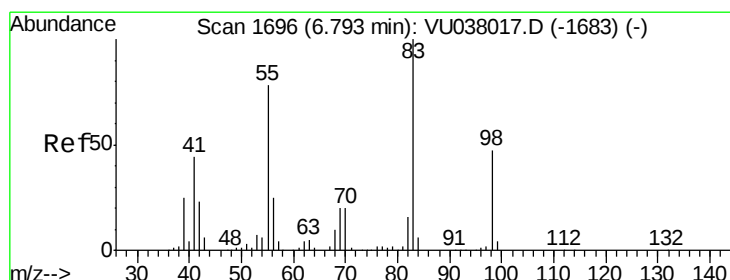
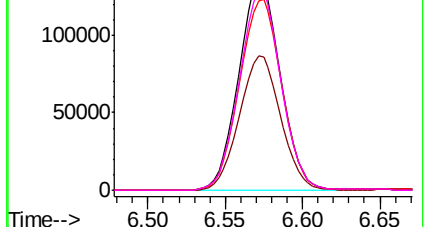


Abundance Ion 95.00 (94.70 to 95.70): VU038017.D (-1612) (-)

Ion 97.00 (96.70 to 97.70): VU038017.D (-1612) (-)

Ion 132.00 (131.70 to 132.70): VU038017.D (-1612) (-)

Ion 130.00 (129.70 to 130.70): VU038017.D (-1612) (-)



#35

Methylcyclohexane

Concen: 49.440 ug/L

RT: 6.79 min Scan# 1696

Delta R.T. 0.00 min

Lab File: VU038098.D

Acq: 11 May 2020 11:05

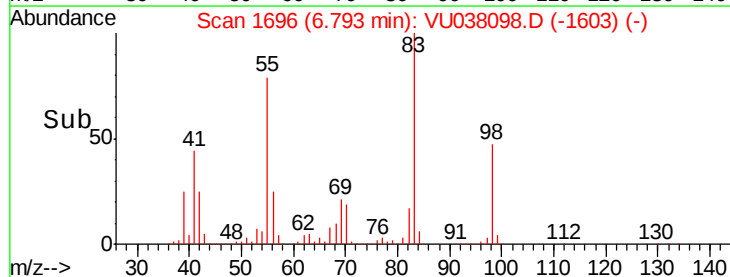
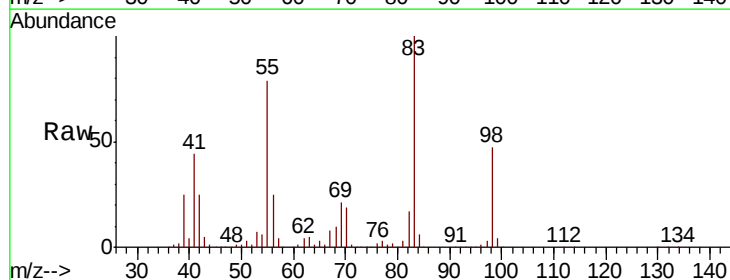
Tgt Ion: 83 Resp: 430460

Ion Ratio Lower Upper

83 100

55 80.1 64.2 96.4

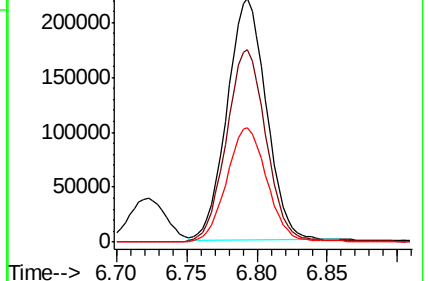
98 48.1 38.1 57.1

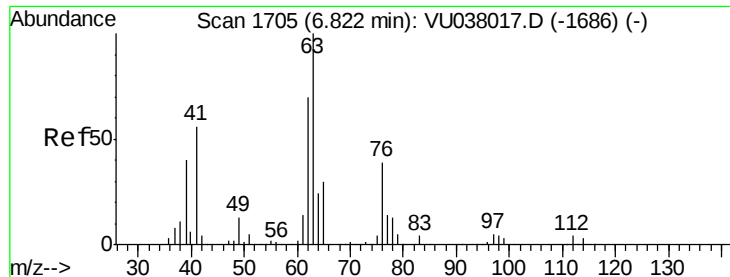


Abundance Ion 83.00 (82.70 to 83.70): VU038017.D (-1683) (-)

Ion 55.00 (54.70 to 55.70): VU038017.D (-1683) (-)

Ion 98.00 (97.70 to 98.70): VU038017.D (-1683) (-)

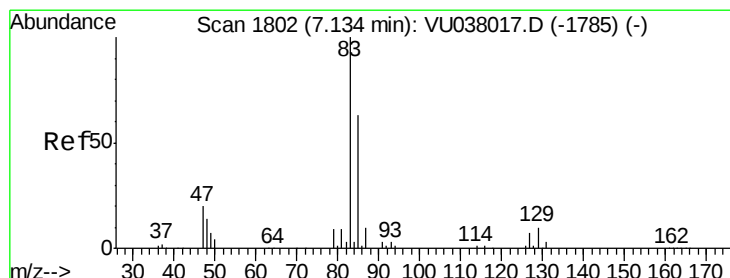
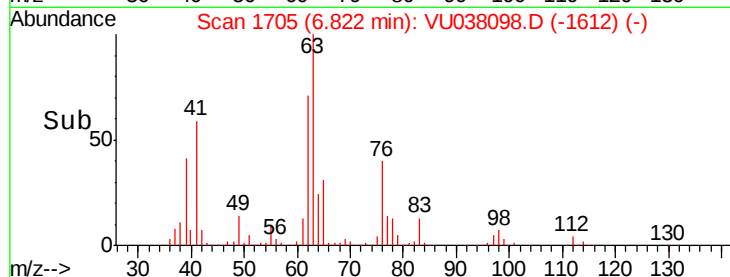
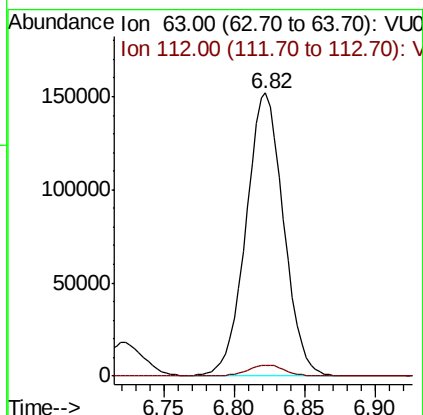
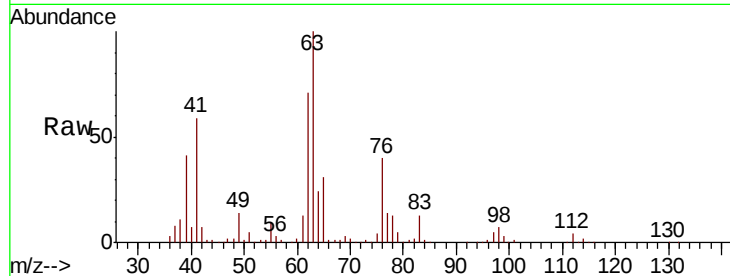




#37
 1,2-Dichloropropane
 Concen: 49.307 ug/L
 RT: 6.82 min Scan# 1705
 Delta R.T. 0.00 min
 Lab File: VU038098.D
 Acq: 11 May 2020 11:05

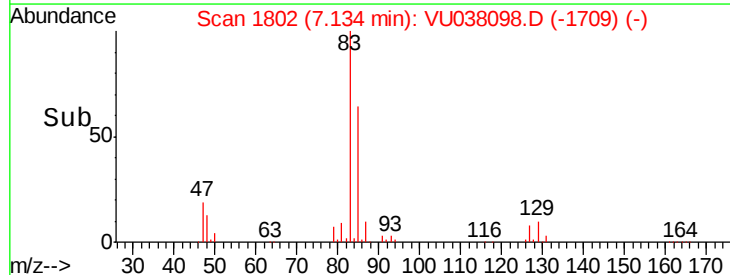
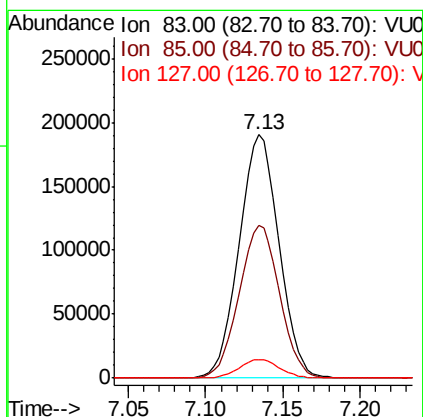
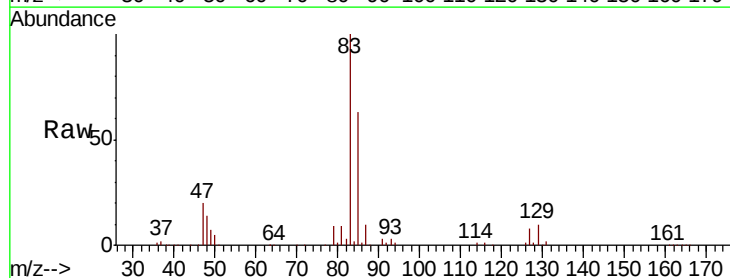
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05037

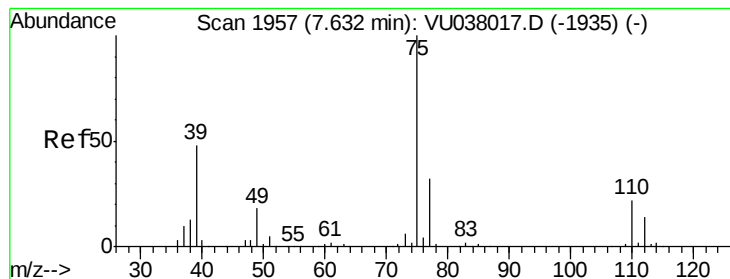
Tot Ion: 63 Resp: 281780
 Ion Ratio Lower Upper
 63 100
 112 4.0 3.1 4.7



#38
 Bromodichloromethane
 Concen: 49.066 ug/L
 RT: 7.13 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VU038098.D
 Acq: 11 May 2020 11:05

Tgt Ion: 83 Resp: 340457
 Ion Ratio Lower Upper
 83 100
 85 62.7 43.8 81.3
 127 7.6 6.1 9.1



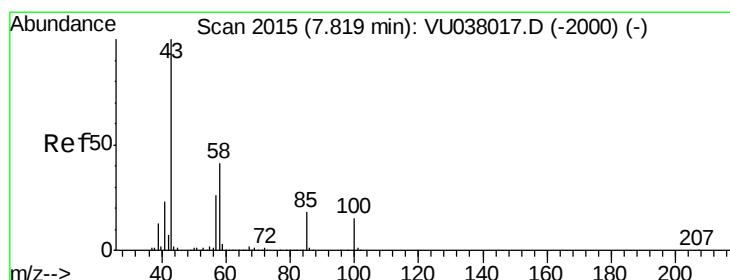
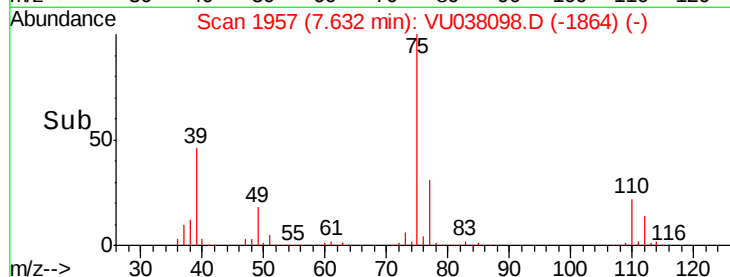
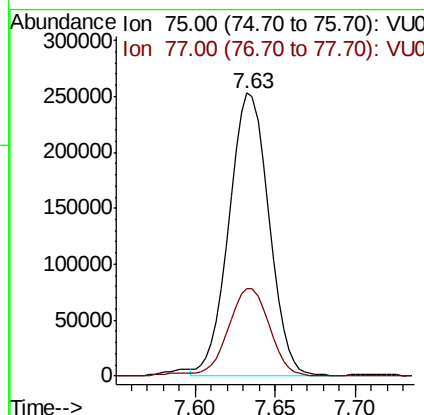
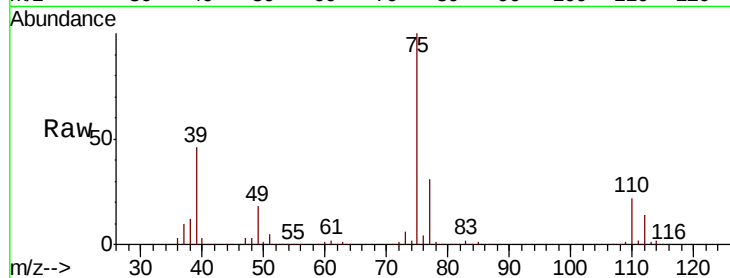


#39

cis-1,3-Dichloropropene
Concen: 48.959 ug/L
RT: 7.63 min Scan# 1957
Delta R.T. 0.00 min
Lab File: VU038098.D
Acq: 11 May 2020 11:05

Instrument :
MSVOA_U
ClientSampleId :
VSTD05037

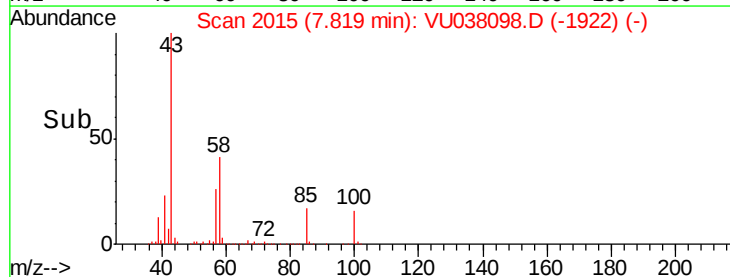
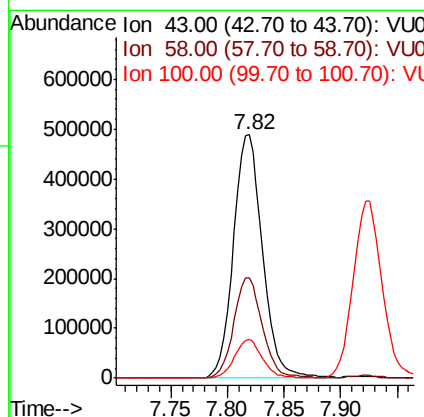
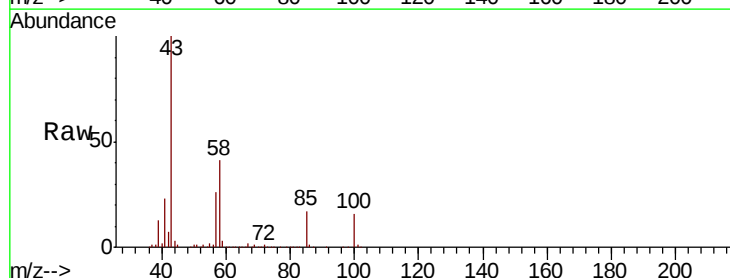
Tot Ion: 75 Resp: 428893
Ion Ratio Lower Upper
75 100
77 31.2 22.6 42.0

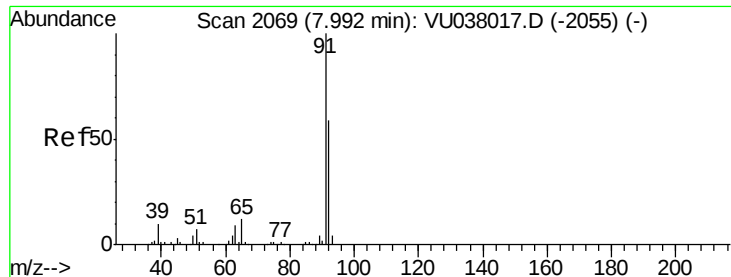


#40

4-Methyl-2-pentanone
Concen: 94.635 ug/L
RT: 7.82 min Scan# 2015
Delta R.T. 0.00 min
Lab File: VU038098.D
Acq: 11 May 2020 11:05

Tgt Ion: 43 Resp: 876273
Ion Ratio Lower Upper
43 100
58 40.5 31.8 47.8
100 15.3 12.2 18.2





#42

Toluene

Concen: 49.108 ug/L

RT: 8.00 min Scan# 2070

Delta R.T. 0.00 min

Lab File: VU038098.D

Acq: 11 May 2020 11:05

Instrument :

MSVOA_U

ClientSampleId :

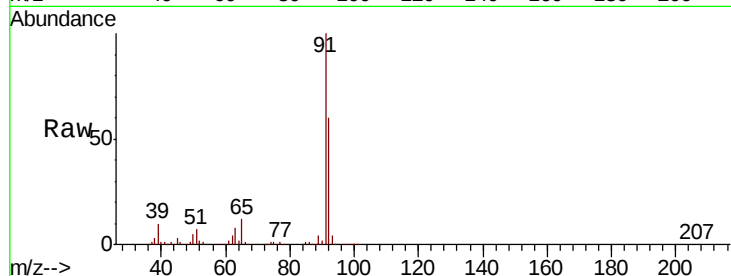
VSTD05037

Tot Ion: 91 Resp: 1102844

Ion Ratio Lower Upper

91 100

92 59.6 41.5 77.1



Abundance Ion 91.00 (90.70 to 91.70): VU038017.D (-2055) (-)

Ion 92.00 (91.70 to 92.70): VU038017.D (-2055) (-)

8.00

600000

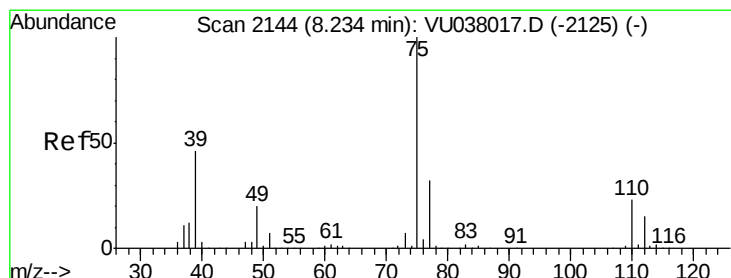
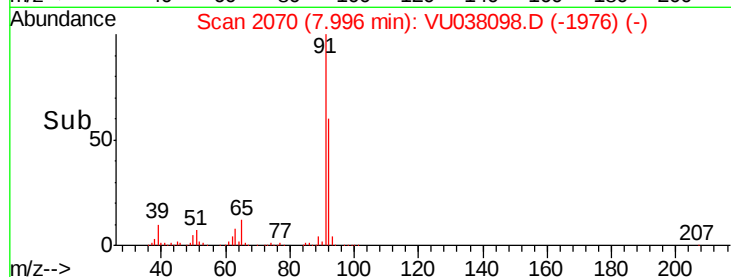
400000

200000

0

7.90 8.00 8.10

Time-->



#44

trans-1,3-Dichloropropene

Concen: 49.840 ug/L

RT: 8.23 min Scan# 2144

Delta R.T. 0.00 min

Lab File: VU038098.D

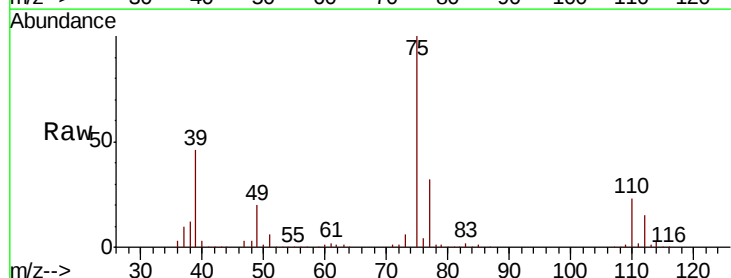
Acq: 11 May 2020 11:05

Tgt Ion: 75 Resp: 407626

Ion Ratio Lower Upper

75 100

77 31.6 21.2 39.4



Abundance Ion 75.00 (74.70 to 75.70): VU038017.D (-2125) (-)

Ion 77.00 (76.70 to 77.70): VU038017.D (-2125) (-)

8.23

250000

200000

150000

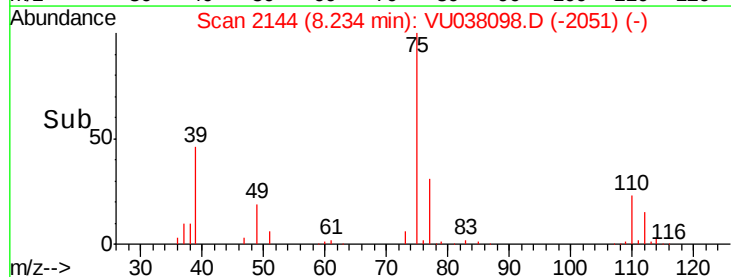
100000

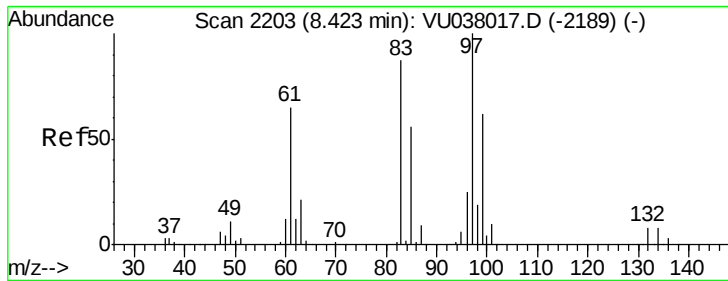
50000

0

8.20 8.30

Time-->

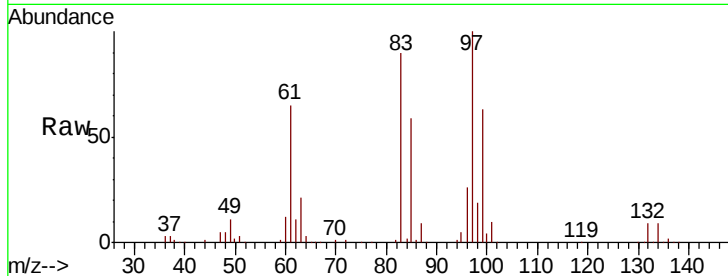




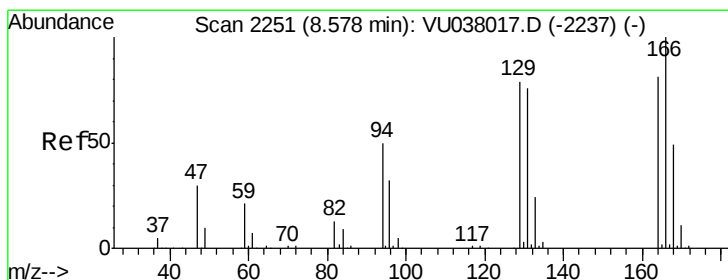
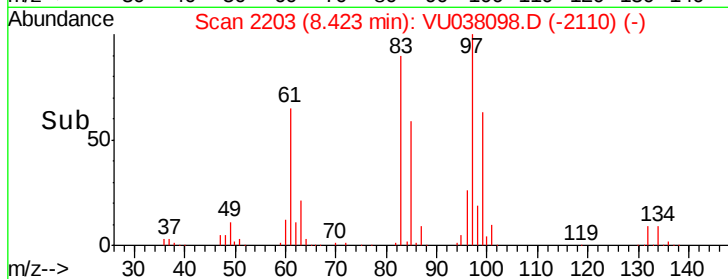
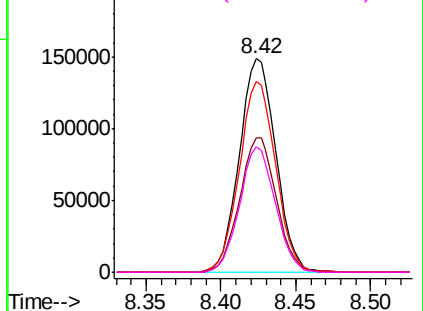
#45
1,1,2-Trichloroethane
Concen: 48.925 ug/L
RT: 8.42 min Scan# 2203
Delta R.T. 0.00 min
Lab File: VU038098.D
Acq: 11 May 2020 11:05

Instrument :
MSVOA_U
ClientSampleId :
VSTD05037

Tot Ion:	97	Resp:	253233
Ion	Ratio	Lower	Upper
97	100		
99	62.8	44.4	82.4
83	89.6	61.9	115.1
85	58.7	40.5	75.1

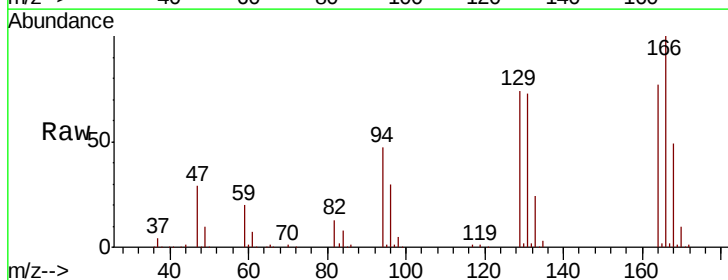


Abundance Ion 97.00 (96.70 to 97.70): VU038017.D (-2189) (-)

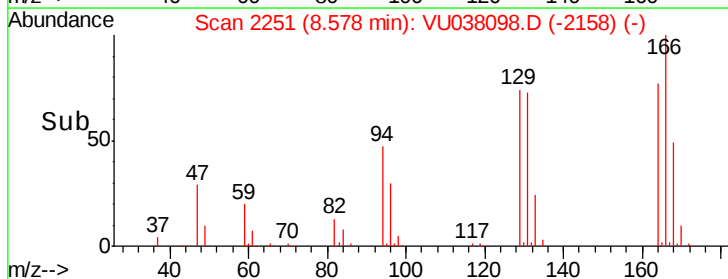
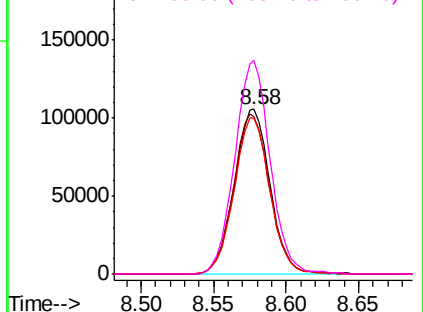


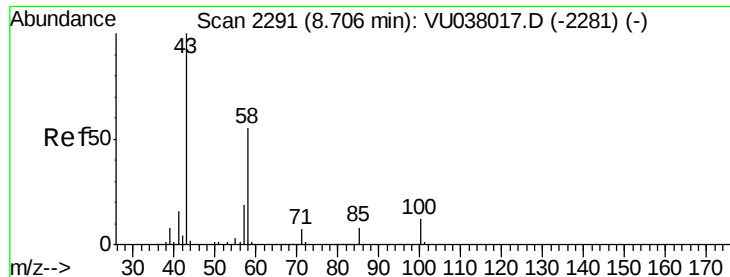
#46
Tetrachloroethene
Concen: 47.725 ug/L
RT: 8.58 min Scan# 2251
Delta R.T. 0.00 min
Lab File: VU038098.D
Acq: 11 May 2020 11:05

Tgt Ion:	164	Resp:	180607
Ion	Ratio	Lower	Upper
164	100		
129	95.6	68.4	127.0
131	95.0	65.7	122.1
166	129.4	86.7	161.1



Abundance Ion 164.00 (163.70 to 164.70): VU038017.D (-2237) (-)

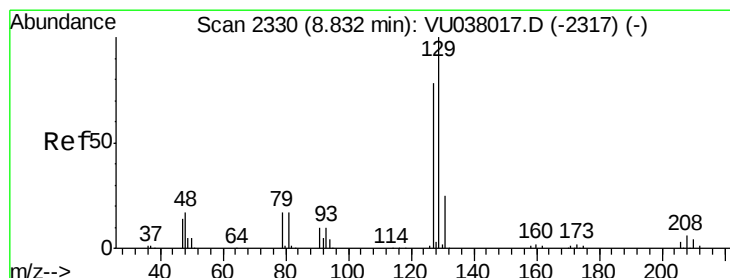
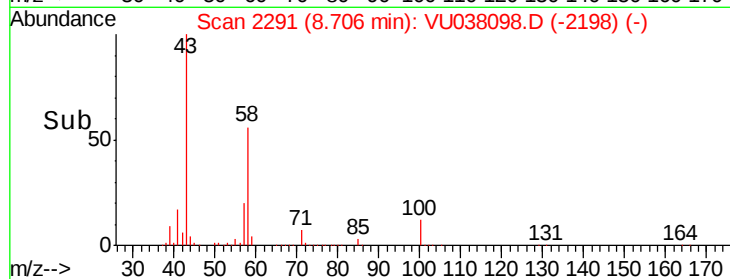
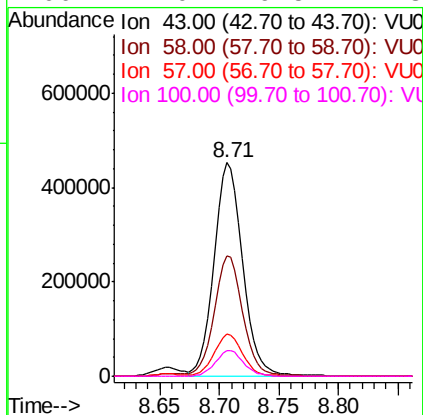
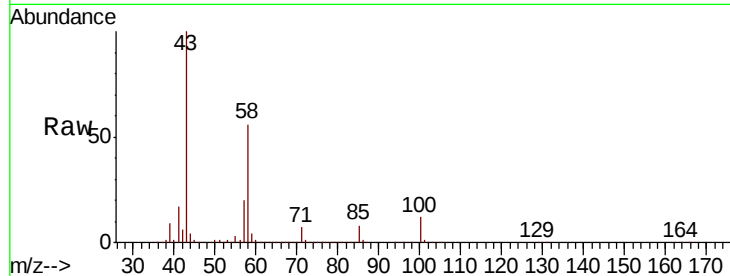




#48
2-Hexanone
Concen: 98.413 ug/L
RT: 8.71 min Scan# 2291
Delta R.T. 0.00 min
Lab File: VU038098.D
Acq: 11 May 2020 11:05

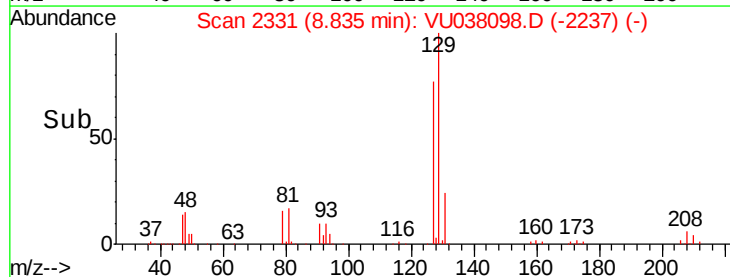
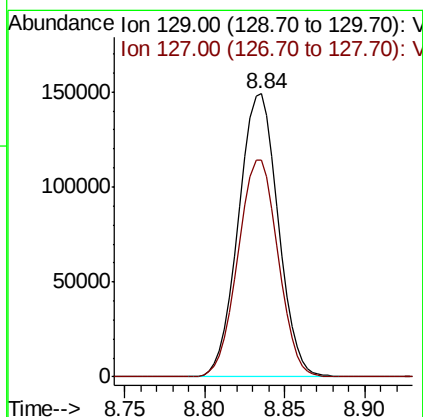
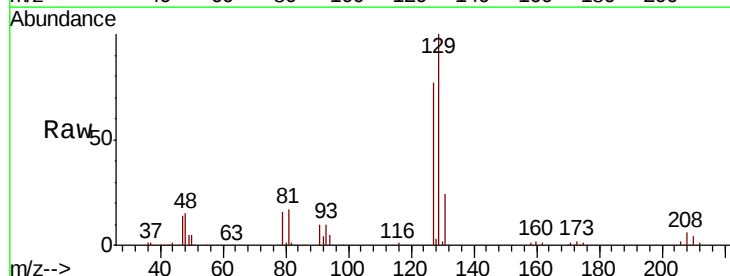
Instrument :
MSVOA_U
ClientSampleId :
VSTD05037

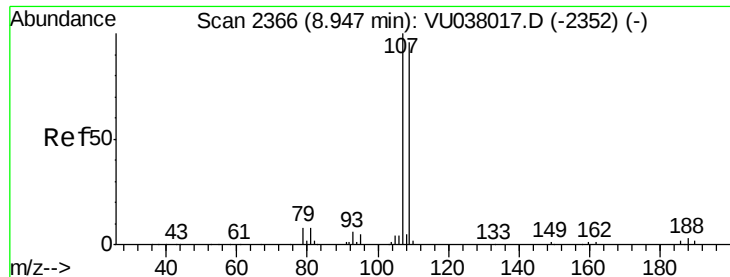
Tot Ion:	43	Resp:	750961
Ion	Ratio	Lower	Upper
43	100		
58	56.3	46.4	69.6
57	19.7	16.4	24.6
100	12.0	9.5	14.3



#49
Dibromochloromethane
Concen: 50.532 ug/L
RT: 8.84 min Scan# 2331
Delta R.T. 0.00 min
Lab File: VU038098.D
Acq: 11 May 2020 11:05

Tgt Ion:	129	Resp:	252241
Ion	Ratio	Lower	Upper
129	100		
127	76.7	54.7	101.5

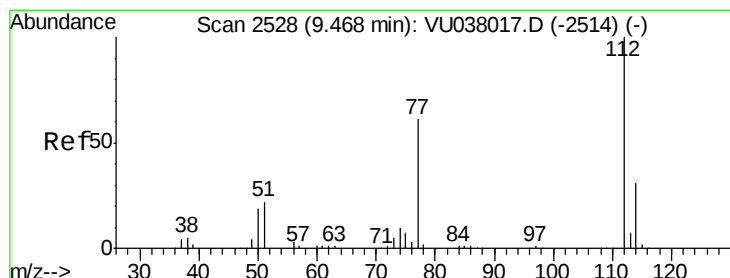
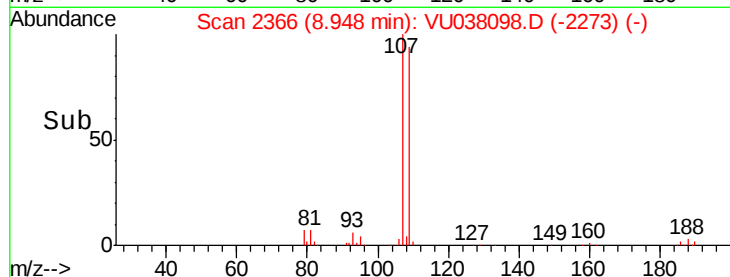
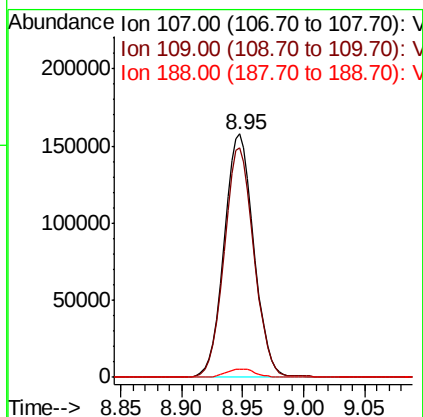
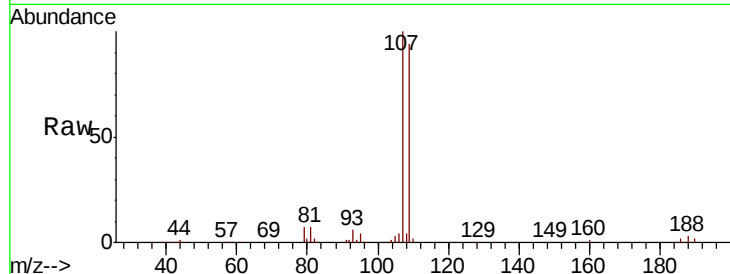




#50
 1,2-Dibromoethane
 Concen: 48.426 ug/L
 RT: 8.95 min Scan# 2366
 Delta R.T. 0.00 min
 Lab File: VU038098.D
 Acq: 11 May 2020 11:05

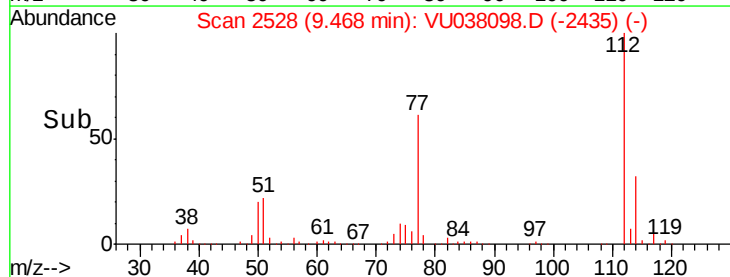
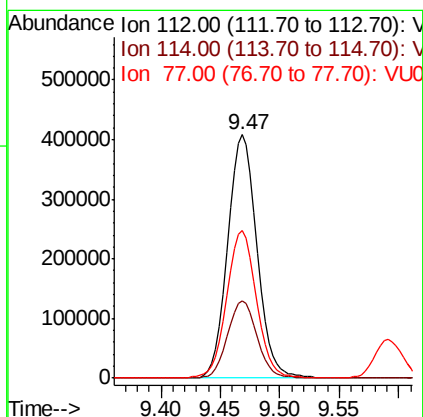
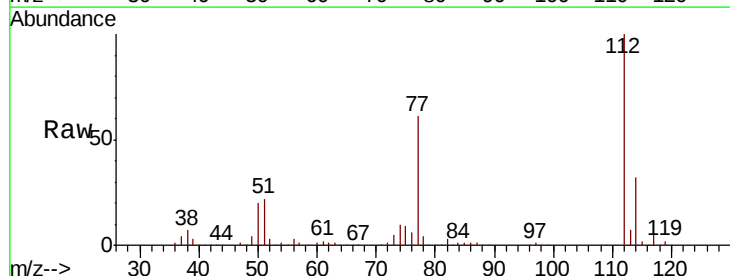
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05037

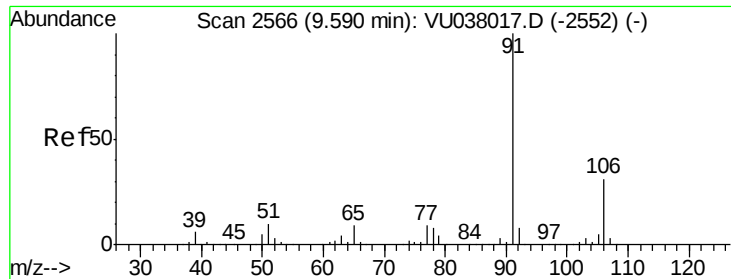
Tot Ion	Ratio	Lower	Upper
107	100		
109	94.5	64.1	119.1
188	3.4	2.2	3.2#



#51
 Chlorobenzene
 Concen: 49.806 ug/L
 RT: 9.47 min Scan# 2528
 Delta R.T. 0.00 min
 Lab File: VU038098.D
 Acq: 11 May 2020 11:05

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.9	21.6	40.2
77	60.6	49.3	73.9





#52

Ethylbenzene

Concen: 49.676 ug/L

RT: 9.59 min Scan# 2566

Delta R.T. 0.00 min

Lab File: VU038098.D

Acq: 11 May 2020 11:05

Instrument :

MSVOA_U

ClientSampleId :

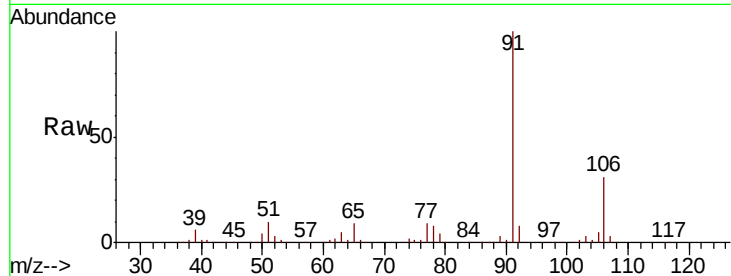
VSTD05037

Tot Ion: 91 Resp: 1236650

Ion Ratio Lower Upper

91 100

106 30.7 21.6 40.2



Abundance Ion 91.00 (90.70 to 91.70): VU038017.D (-2552) (-)

Ion 106.00 (105.70 to 106.70): VU038017.D (-2552) (-)

9.59

800000

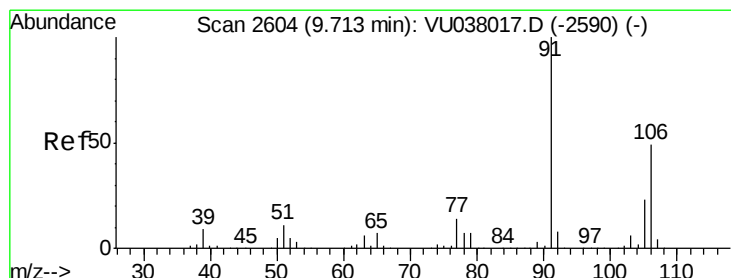
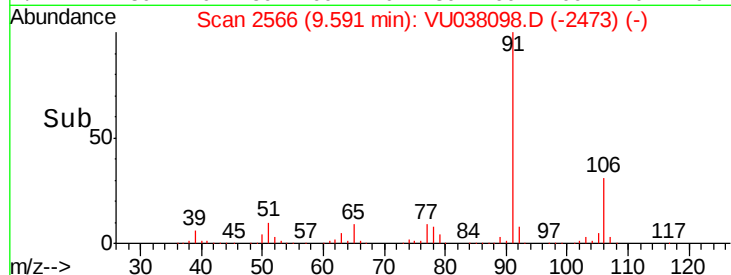
600000

400000

200000

0

Time-->



#53

m,p-Xylene

Concen: 50.316 ug/L

RT: 9.71 min Scan# 2604

Delta R.T. 0.00 min

Lab File: VU038098.D

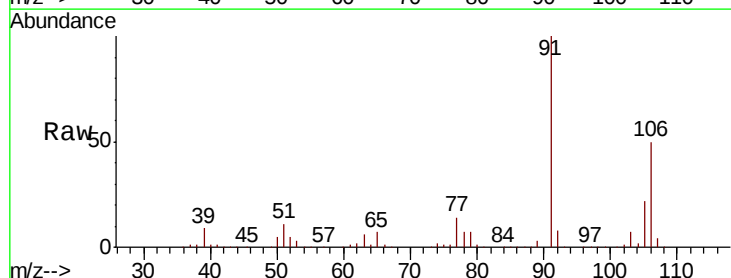
Acq: 11 May 2020 11:05

Tgt Ion: 106 Resp: 475595

Ion Ratio Lower Upper

106 100

91 199.4 138.0 256.4



Abundance Ion 106.00 (105.70 to 106.70): VU038017.D (-2590) (-)

Ion 91.00 (90.70 to 91.70): VU038017.D (-2590) (-)

9.71

600000

500000

400000

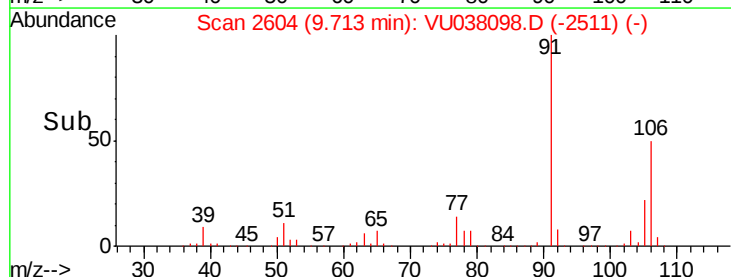
300000

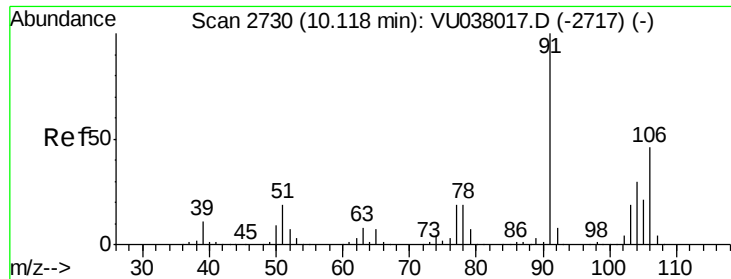
200000

100000

0

Time-->





#54

o-xylene

Concen: 50.226 ug/L

RT: 10.12 min Scan# 2731

Delta R.T. 0.00 min

Lab File: VU038098.D

Acq: 11 May 2020 11:05

Instrument :

MSVOA_U

ClientSampleId :

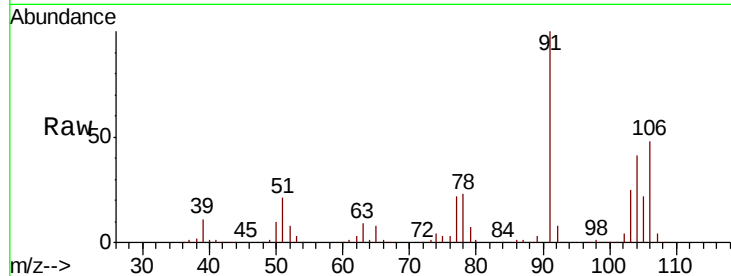
VSTD05037

Tot Ion:106 Resp: 467410

Ion Ratio Lower Upper

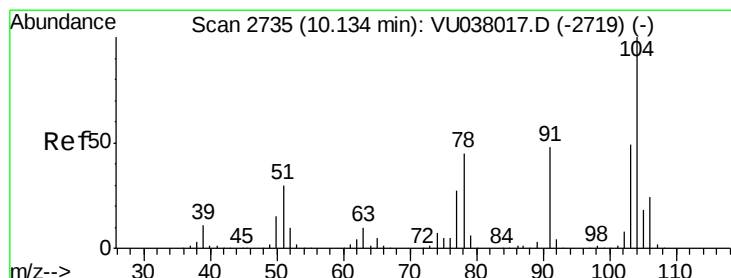
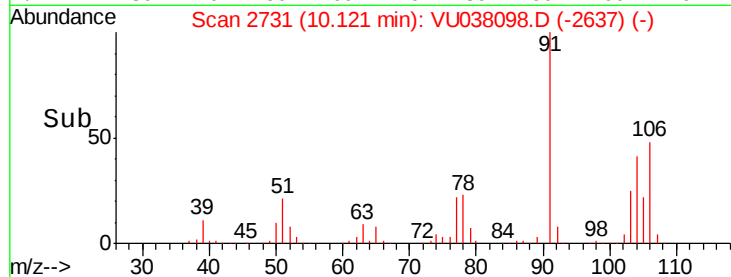
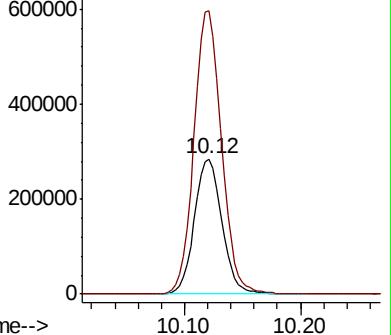
106 100

91 209.3 149.4 277.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 50.014 ug/L

RT: 10.13 min Scan# 2735

Delta R.T. 0.00 min

Lab File: VU038098.D

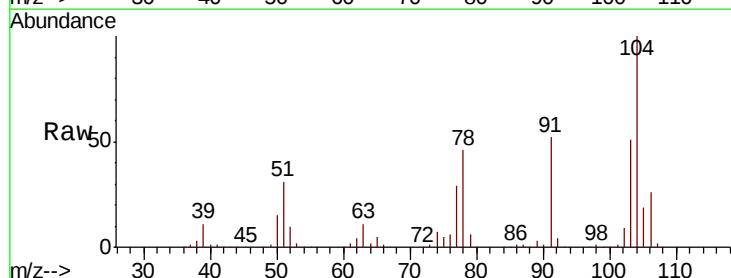
Acq: 11 May 2020 11:05

Tgt Ion:104 Resp: 790582

Ion Ratio Lower Upper

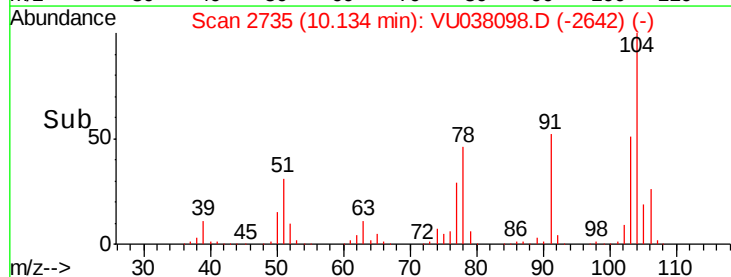
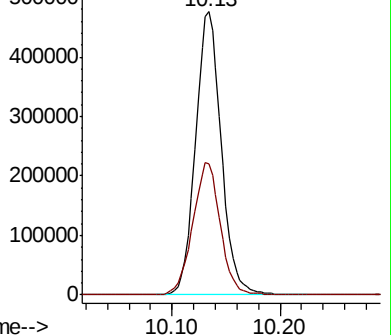
104 100

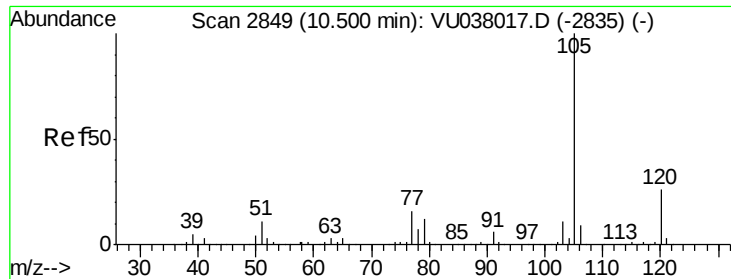
78 46.3 32.3 60.1



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 50.748 ug/L

RT: 10.50 min Scan# 2850

Delta R.T. 0.00 min

Lab File: VU038098.D

Acq: 11 May 2020 11:05

Instrument :

MSVOA_U

ClientSampleId :

VSTD05037

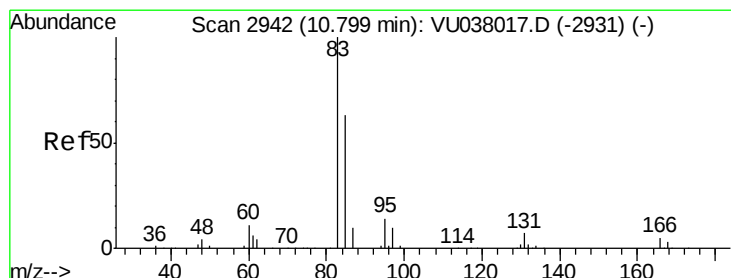
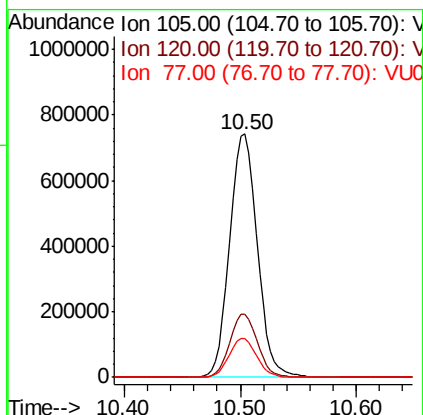
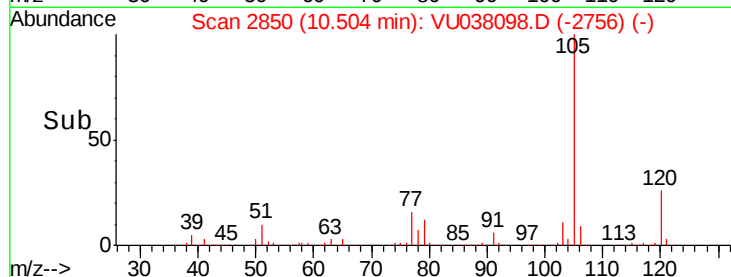
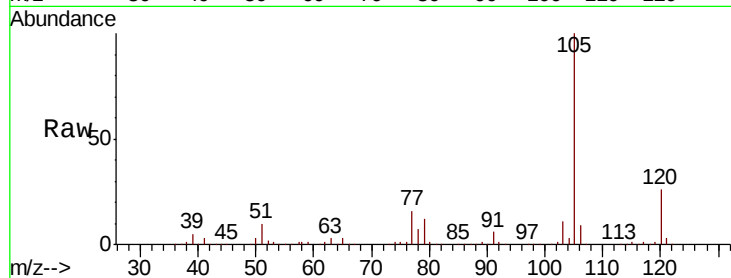
Tot Ion:105 Resp: 1216011

Ion Ratio Lower Upper

105 100

120 26.0 20.5 30.7

77 16.0 13.0 19.4



#58

1,1,2,2-Tetrachloroethane

Concen: 47.695 ug/L

RT: 10.80 min Scan# 2942

Delta R.T. 0.00 min

Lab File: VU038098.D

Acq: 11 May 2020 11:05

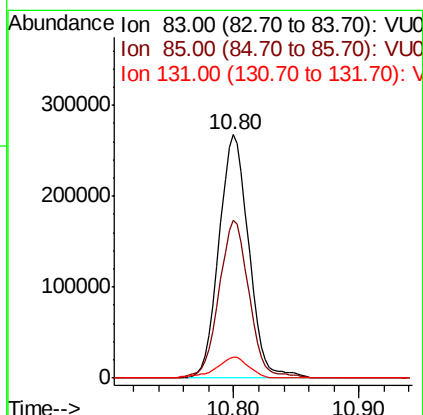
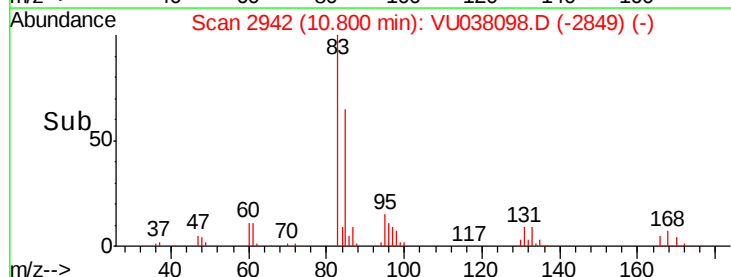
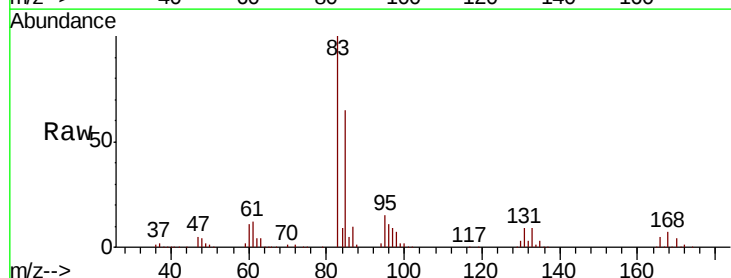
Tgt Ion: 83 Resp: 440720

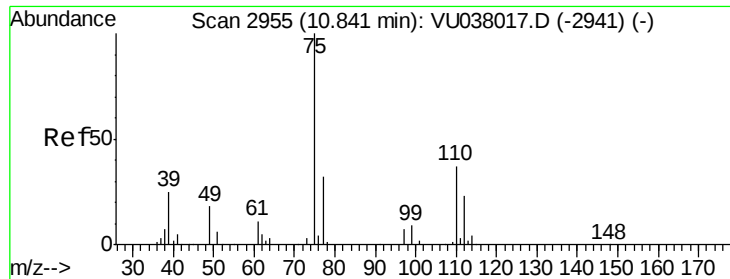
Ion Ratio Lower Upper

83 100

85 65.0 44.9 83.3

131 8.6 6.8 10.2





#59

1,2,3-Trichloropropane

Concen: 47.847 ug/L

RT: 10.84 min Scan# 2955

Delta R.T. 0.00 min

Lab File: VU038098.D

Acq: 11 May 2020 11:05

Instrument :

MSVOA_U

ClientSampleId :

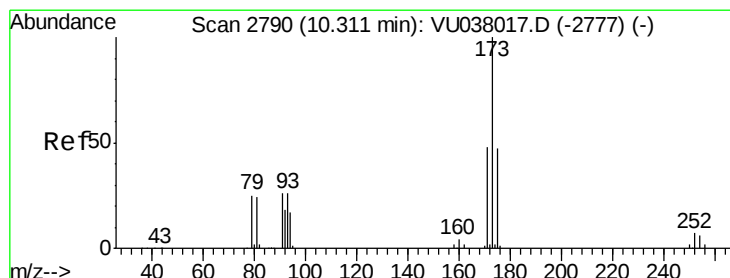
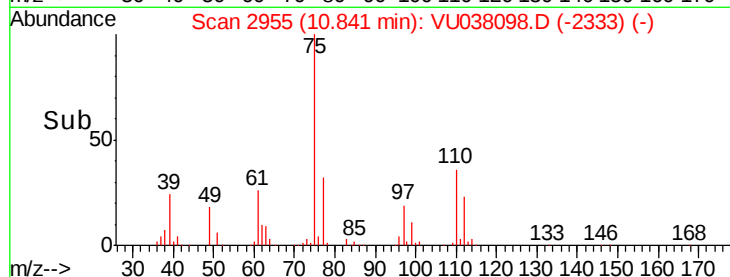
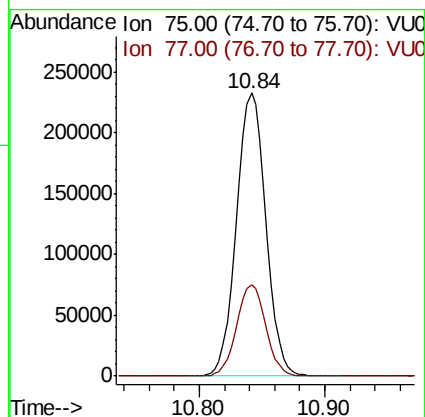
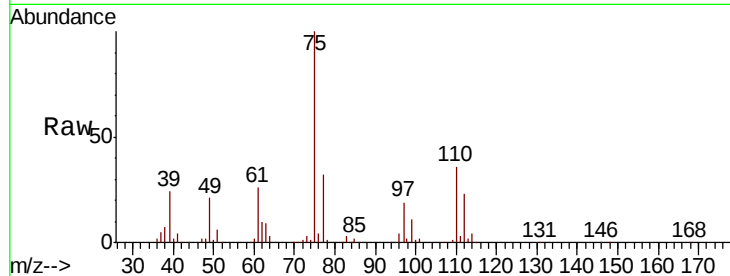
VSTD05037

Tot Ion: 75 Resp: 379131

Ion Ratio Lower Upper

75 100

77 32.1 25.4 38.2



#61

Bromoform

Concen: 48.469 ug/L

RT: 10.31 min Scan# 2790

Delta R.T. 0.00 min

Lab File: VU038098.D

Acq: 11 May 2020 11:05

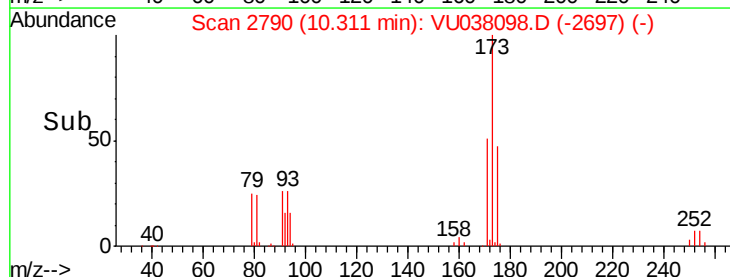
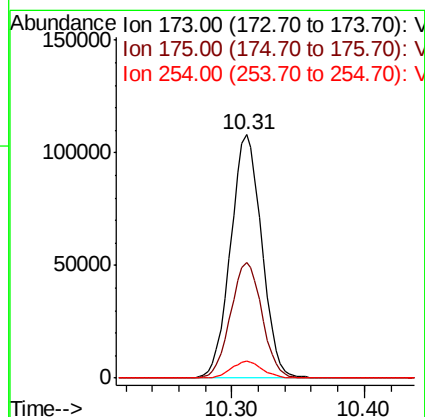
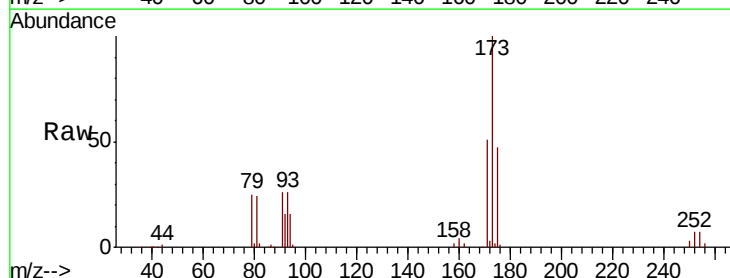
Tgt Ion: 173 Resp: 175967

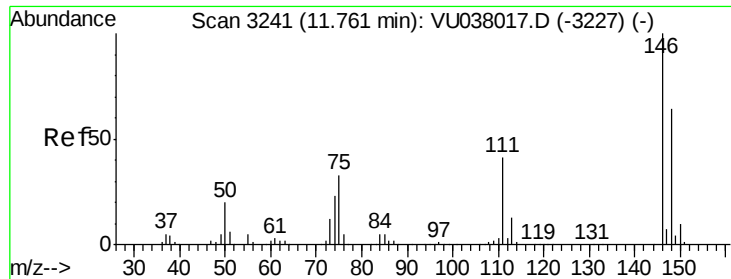
Ion Ratio Lower Upper

173 100

175 48.1 39.0 58.4

254 6.8 4.7 7.1

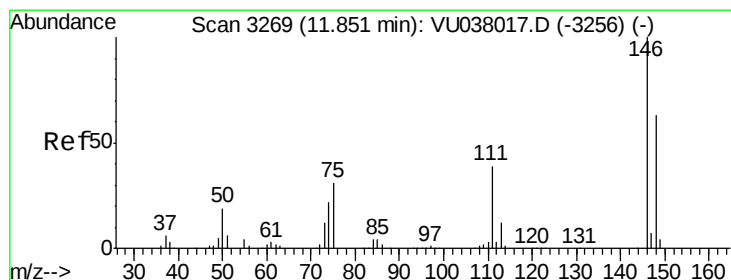
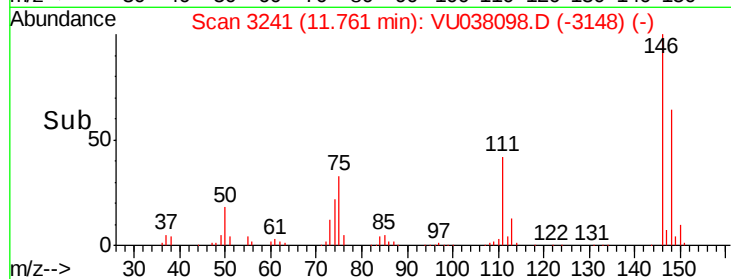
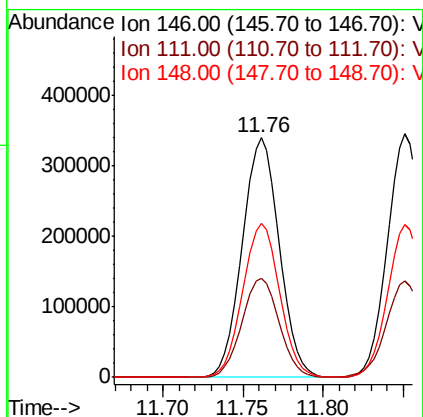
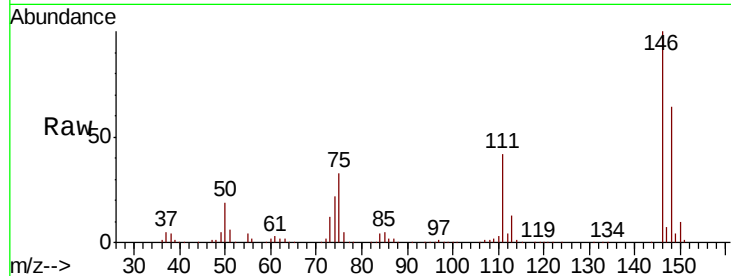




#62
 1,3-Dichlorobenzene
 Concen: 49.331 ug/L
 RT: 11.76 min Scan# 3241
 Delta R.T. 0.00 min
 Lab File: VU038098.D
 Acq: 11 May 2020 11:05

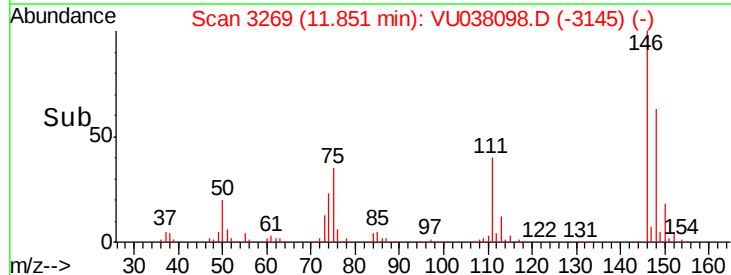
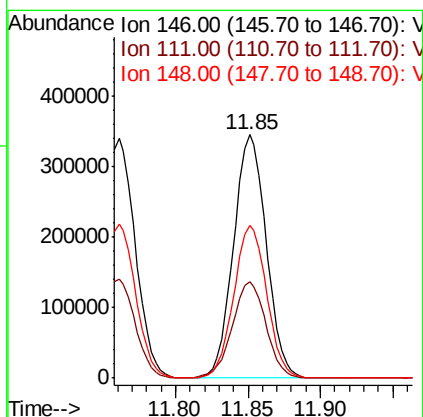
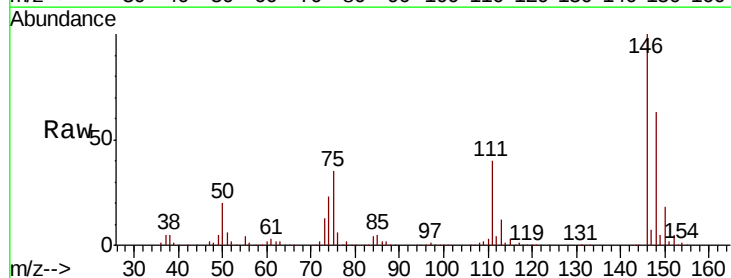
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05037

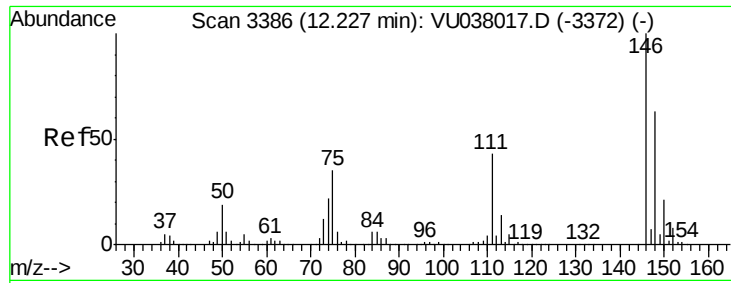
Tot Ion	Ratio	Lower	Upper
146	100		
111	41.5	29.2	54.2
148	64.3	44.9	83.5



#63
 1,4-Dichlorobenzene
 Concen: 49.246 ug/L
 RT: 11.85 min Scan# 3269
 Delta R.T. 0.00 min
 Lab File: VU038098.D
 Acq: 11 May 2020 11:05

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.6	28.2	52.4
148	62.8	44.5	82.7





#65

1,2-Dichlorobenzene

Concen: 48.468 ug/L

RT: 12.23 min Scan# 3386

Delta R.T. 0.00 min

Lab File: VU038098.D

Acq: 11 May 2020 11:05

Instrument :

MSVOA_U

ClientSampleId :

VSTD05037

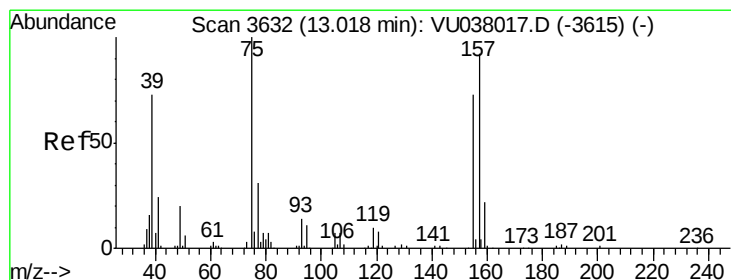
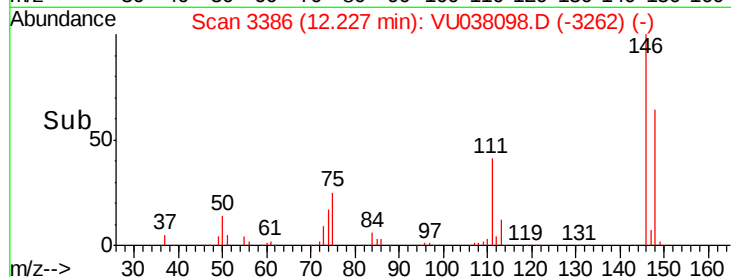
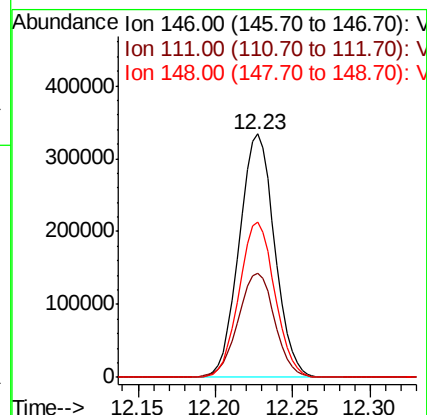
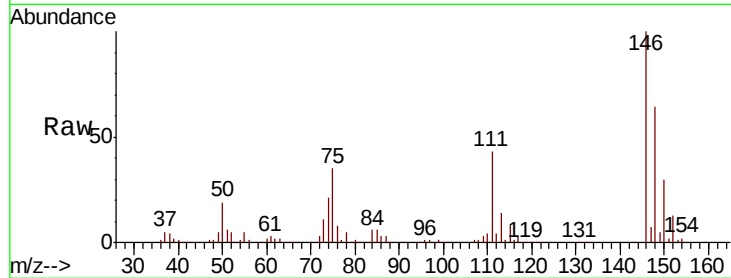
Tot Ion:146 Resp: 531527

Ion Ratio Lower Upper

146 100

111 42.7 34.6 51.8

148 63.7 50.1 75.1



#66

1,2-Dibromo-3-chloropropane

Concen: 44.304 ug/L

RT: 13.02 min Scan# 3632

Delta R.T. 0.00 min

Lab File: VU038098.D

Acq: 11 May 2020 11:05

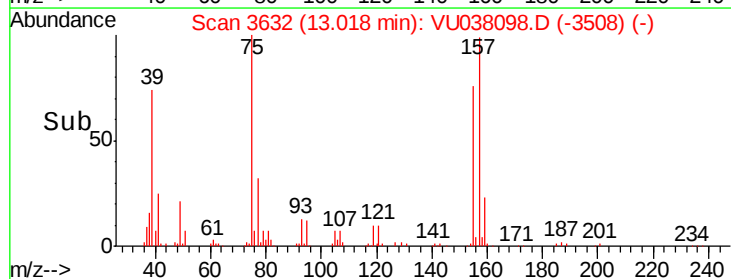
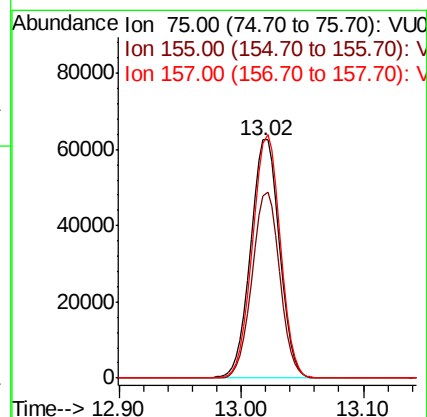
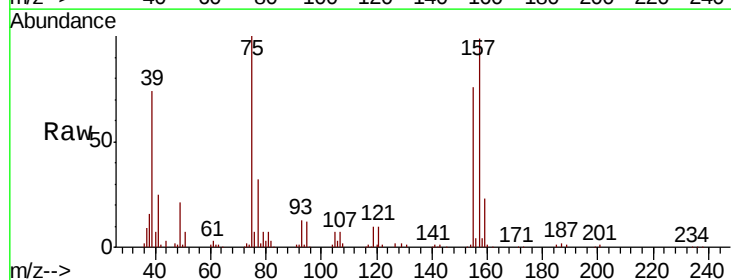
Tgt Ion: 75 Resp: 101414

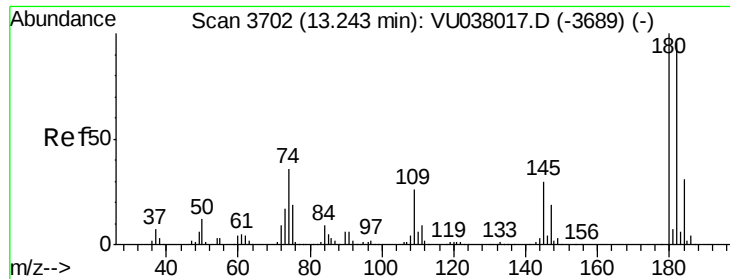
Ion Ratio Lower Upper

75 100

155 76.5 61.3 91.9

157 98.6 76.9 115.3

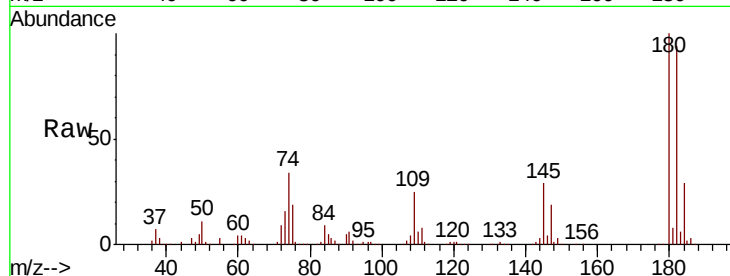




#67
 1,3,5-Trichlorobenzene
 Concen: 52.320 ug/L
 RT: 13.24 min Scan# 3702
 Delta R.T. 0.00 min
 Lab File: VU038098.D
 Acq: 11 May 2020 11:05

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05037

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.1	75.7	113.5
184	30.4	24.2	36.2
145	29.8	24.6	37.0



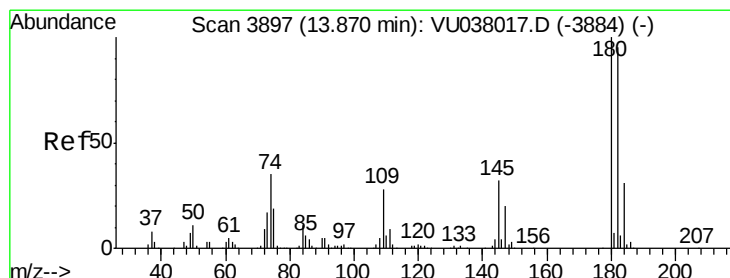
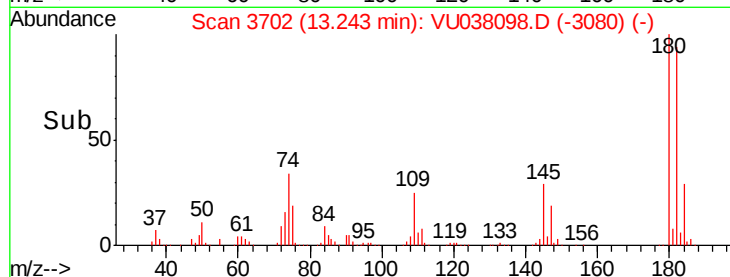
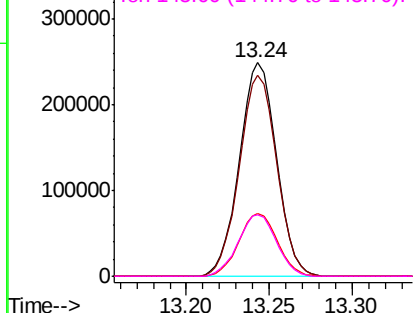
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

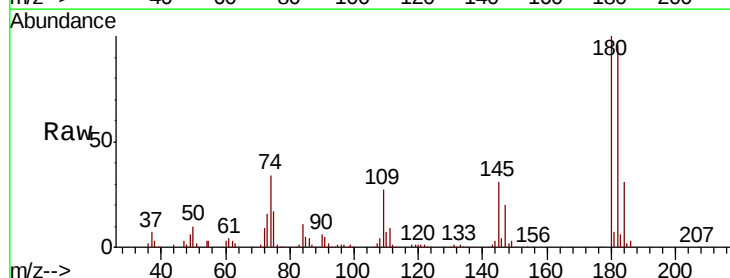
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 51.614 ug/L
 RT: 13.87 min Scan# 3898
 Delta R.T. 0.00 min
 Lab File: VU038098.D
 Acq: 11 May 2020 11:05

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.8	75.4	113.0
145	31.0	25.3	37.9

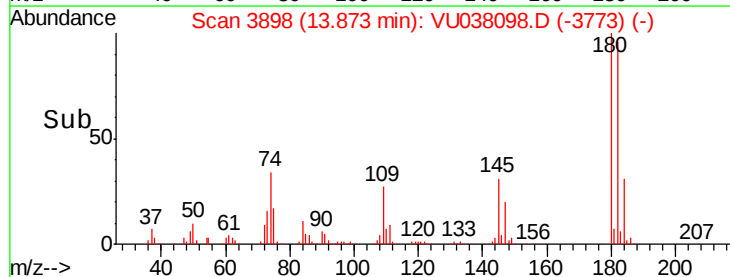
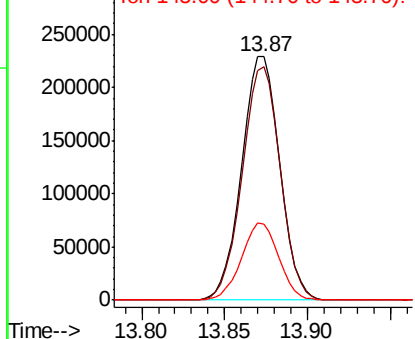


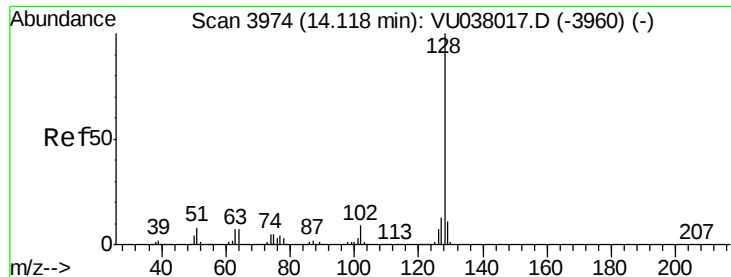
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 49.610 ug/L

RT: 14.12 min Scan# 3975

Delta R.T. 0.00 min

Lab File: VU038098.D

Acq: 11 May 2020 11:05

Instrument :

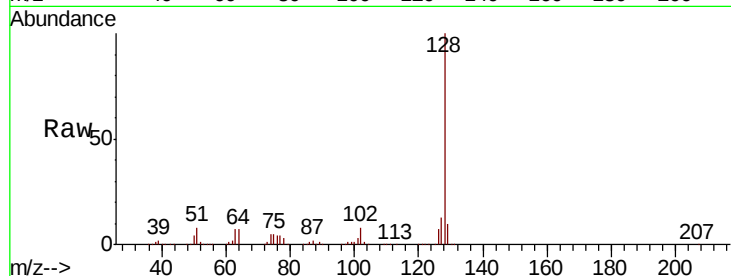
MSVOA_U

ClientSampled :

VSTD05037

Tot Ion:128 Resp: 1352047

Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.4	15.6
129	10.7	8.8	13.2

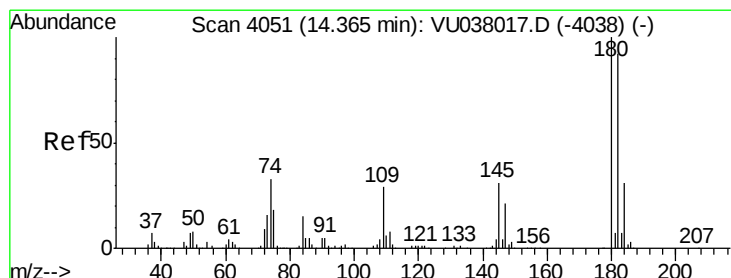
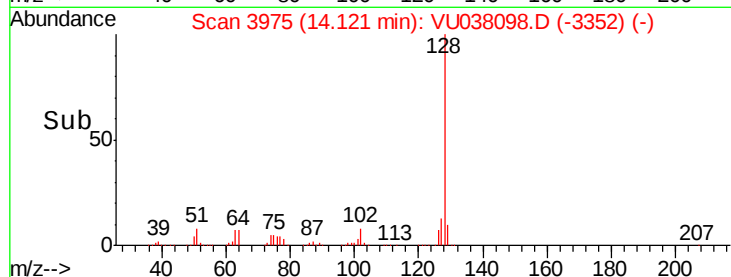
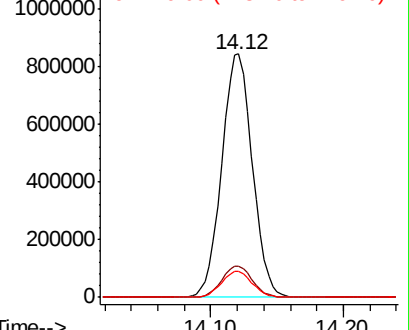


Abundance

Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 52.690 ug/L

RT: 14.37 min Scan# 4051

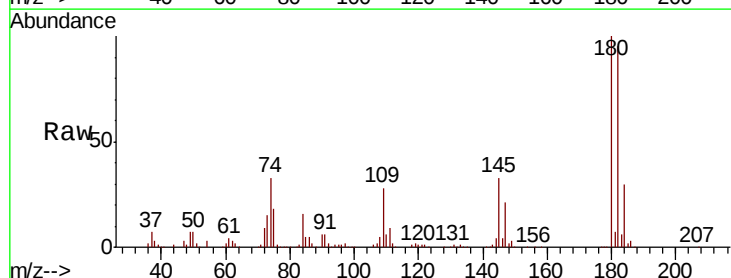
Delta R.T. 0.00 min

Lab File: VU038098.D

Acq: 11 May 2020 11:05

Tgt Ion:180 Resp: 368366

Ion	Ratio	Lower	Upper
180	100		
182	94.9	75.9	113.9
145	33.0	27.0	40.4



Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

