

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU061020\
 Data File : VU038752.D
 Acq On : 10 Jun 2020 02:30
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05047

Quant Time: Jun 10 05:13:59 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060820WMA.M
 Quant Title : VOC Analysis
 QLast Update : Wed Jun 10 05:09:22 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	544712	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.43	117	531430	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.82	152	262120	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	130824	42.99	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	85.98%
7) Chloroethane-d5	1.93	69	115577	48.95	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	97.90%
11) 1,1-Dichloroethene-d2	2.59	63	307103	46.30	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	92.60%
21) 2-Butanone-d5	4.67	46	312930	105.69	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	105.69%
24) Chloroform-d	5.10	84	333151	50.77	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	101.54%
26) 1,2-Dichloroethane-d4	5.74	65	219825	50.55	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	101.10%
32) Benzene-d6	5.76	84	627661	49.03	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.06%
36) 1,2-Dichloropropane-d6	6.72	67	196828	49.89	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	99.78%
41) Toluene-d8	7.92	98	556387	48.10	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	96.20%
43) trans-1,3-Dichloropropene-	8.20	79	100252	50.47	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	100.94%
47) 2-Hexanone-d5	8.65	63	226804	108.00	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	108.00%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	303974	51.65	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	103.30%
64) 1,2-Dichlorobenzene-d4	12.20	152	225077	49.46	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	98.92%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.40	85	195764	45.384	ug/L 100
3) Chloromethane	1.53	50	187910	45.159	ug/L 98
5) Vinyl chloride	1.62	62	204558	46.939	ug/L 94
6) Bromomethane	1.87	94	81020	35.697	ug/L 99
8) Chloroethane	1.95	64	134325	52.689	ug/L 95
9) Trichlorofluoromethane	2.16	101	288951	48.146	ug/L 100
10) 1,1,2-Trichloro-1,2,2-trif	2.61	101	155469	44.442	ug/L 99
12) 1,1-Dichloroethene	2.60	96	168244	48.797	ug/L 95
13) Acetone	2.66	43	246321	103.242	ug/L 97
14) Carbon disulfide	2.82	76	537979	48.186	ug/L 100
15) Methyl Acetate	2.98	43	261776	52.504	ug/L 100
16) Methylene chloride	3.08	84	213362	52.121	ug/L 98
17) trans-1,2-Dichloroethene	3.39	96	190196	50.411	ug/L 100
18) Methyl tert-butyl Ether	3.40	73	649025	53.204	ug/L 100
19) 1,1-Dichloroethane	3.91	63	363757	50.881	ug/L 99
20) cis-1,2-Dichloroethene	4.71	96	214861	51.517	ug/L 100
22) 2-Butanone	4.75	43	391782	107.077	ug/L 100

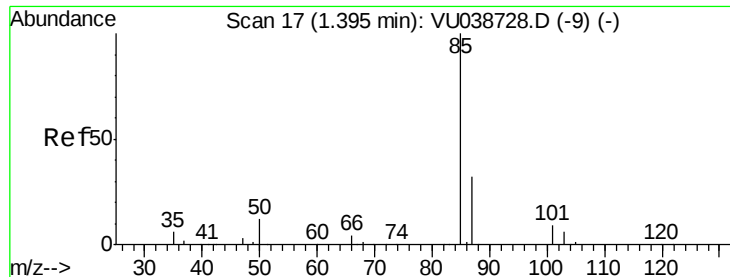
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU061020\
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 Quant Title : VOC Analysis
 QLast Update : Wed Jun 10 05:09:22 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.01	128	109206	52.865	ug/L	97
25) Chloroform	5.12	83	373788	52.243	ug/L	97
27) 1,2-Dichloroethane	5.83	62	315787	53.352	ug/L	99
29) Cyclohexane	5.42	56	260908	42.912	ug/L	98
30) 1,1,1-Trichloroethane	5.35	97	312148	49.989	ug/L	99
31) Carbon tetrachloride	5.56	117	251439	48.641	ug/L	100
33) Benzene	5.81	78	806187	51.086	ug/L	100
34) Trichloroethene	6.57	95	198560	49.471	ug/L	97
35) Methylcyclohexane	6.79	83	264591	43.712	ug/L	97
37) 1,2-Dichloropropane	6.82	63	209541	50.954	ug/L	99
38) Bromodichloromethane	7.13	83	281090	53.320	ug/L	99
39) cis-1,3-Dichloropropene	7.63	75	323144	50.952	ug/L	99
40) 4-Methyl-2-pentanone	7.82	43	681382	105.986	ug/L	100
42) Toluene	7.99	91	831076	50.366	ug/L	99
44) trans-1,3-Dichloropropene	8.23	75	311554	51.286	ug/L	99
45) 1,1,2-Trichloroethane	8.42	97	209330	52.886	ug/L	99
46) Tetrachloroethene	8.57	164	137020	47.320	ug/L	96
48) 2-Hexanone	8.70	43	570675	107.382	ug/L	99
49) Dibromochloromethane	8.83	129	216756	53.323	ug/L	96
50) 1,2-Dibromoethane	8.94	107	223849	52.617	ug/L	99
51) Chlorobenzene	9.47	112	527669	49.777	ug/L	99
52) Ethylbenzene	9.59	91	881601	48.410	ug/L	99
53) m,p-Xylene	9.71	106	348751	49.889	ug/L	99
54) o-xylene	10.12	106	343512	50.618	ug/L	97
55) Styrene	10.13	104	594776	50.557	ug/L	100
56) Isopropylbenzene	10.50	105	834947	47.141	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.80	83	349507	51.885	ug/L	99
59) 1,2,3-Trichloropropane	10.84	75	303785	52.685	ug/L	99
61) Bromoform	10.30	173	155638	54.136	ug/L	99
62) 1,3-Dichlorobenzene	11.76	146	401071	49.576	ug/L	100
63) 1,4-Dichlorobenzene	11.85	146	403255	49.226	ug/L	99
65) 1,2-Dichlorobenzene	12.22	146	411866	51.151	ug/L	99
66) 1,2-Dibromo-3-chloropropan	13.02	75	94711	56.759	ug/L	98
67) 1,3,5-Trichlorobenzene	13.24	180	279580	48.107	ug/L	100
68) 1,2,4-trichlorobenzene	13.86	180	270342	49.344	ug/L	99
69) Naphthalene	14.11	128	1076296	55.569	ug/L	100
70) 1,2,3-Trichlorobenzene	14.36	180	287531	52.310	ug/L	100

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



#2

Dichlorodifluoromethane

Concen: 45.384 ug/L

RT: 1.40 min Scan# 17

Delta R.T. 0.00 min

Lab File: VU038752.D

Acq: 10 Jun 2020 02:30

Instrument :

MSVOA_U

ClientSampleId :

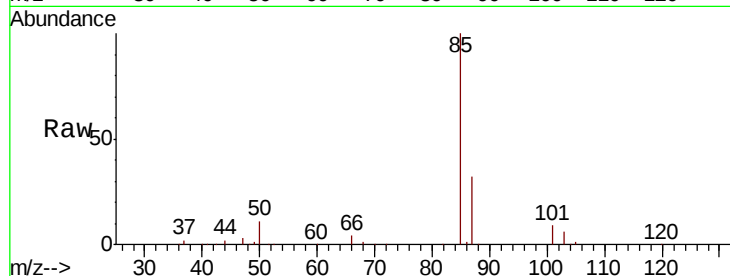
VSTD05047

Tot Ion: 85 Resp: 195764

Ion Ratio Lower Upper

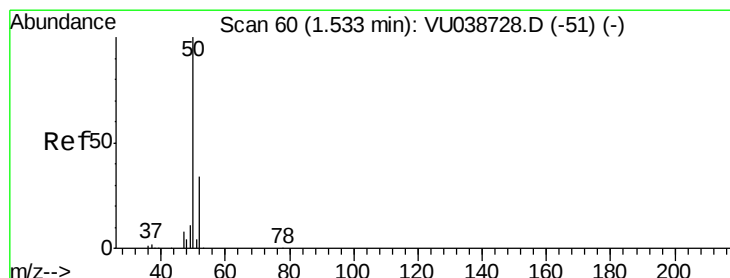
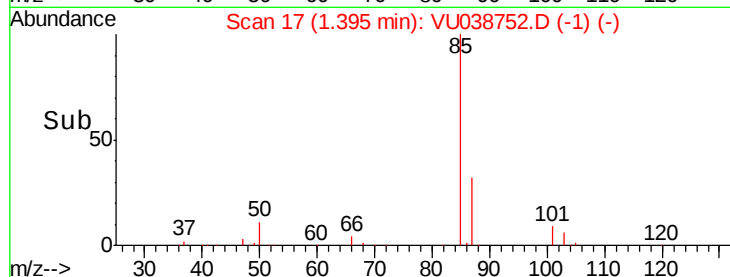
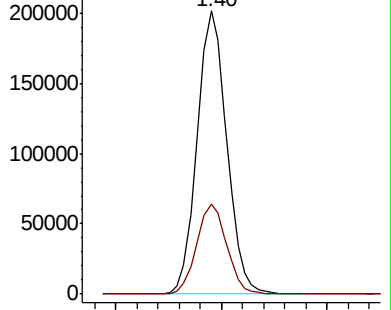
85 100

87 32.4 25.8 38.6



Abundance Ion 85.00 (84.70 to 85.70): VU038728.D (-9) (-)

Ion 87.00 (86.70 to 87.70): VU038728.D (-9) (-)



#3

Chloromethane

Concen: 45.159 ug/L

RT: 1.53 min Scan# 60

Delta R.T. 0.00 min

Lab File: VU038752.D

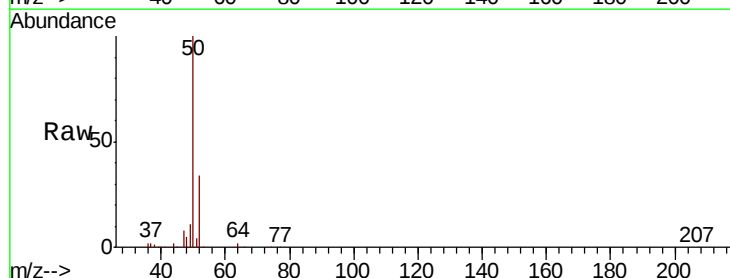
Acq: 10 Jun 2020 02:30

Tgt Ion: 50 Resp: 187910

Ion Ratio Lower Upper

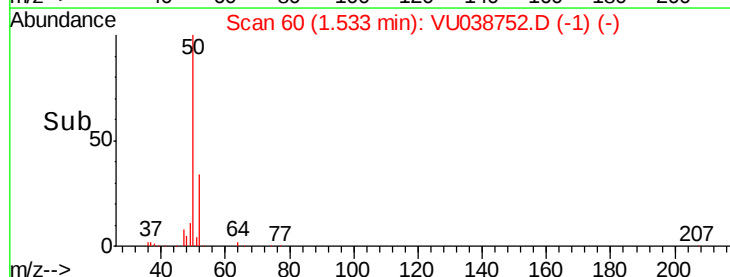
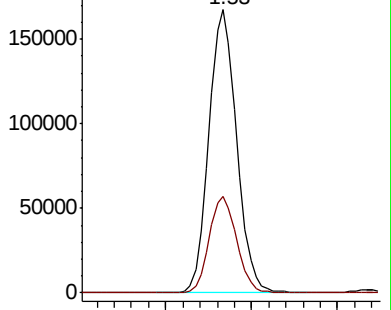
50 100

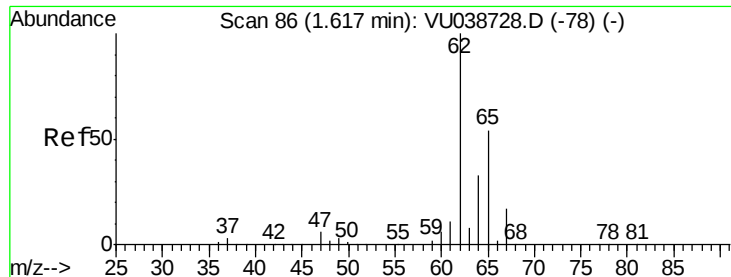
52 34.1 23.2 43.2



Abundance Ion 50.00 (49.70 to 50.70): VU038728.D (-51) (-)

Ion 52.00 (51.70 to 52.70): VU038728.D (-51) (-)





#5

Vinyl chloride

Concen: 46.939 ug/L

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

Lab File: VU038752.D

Acq: 10 Jun 2020 02:30

Instrument :

MSVOA_U

ClientSampleId :

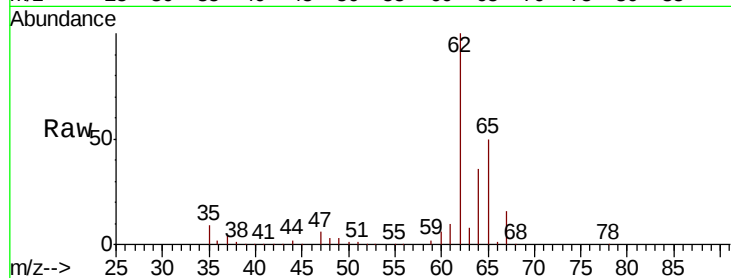
VSTD05047

Tot Ion: 62 Resp: 204558

Ion Ratio Lower Upper

62 100

64 36.0 23.0 42.8



Abundance Ion 62.00 (61.70 to 62.70): VU038728.D (-78) (-)

Ion 64.00 (63.70 to 64.70): VU038728.D (-78) (-)

1.62

200000

150000

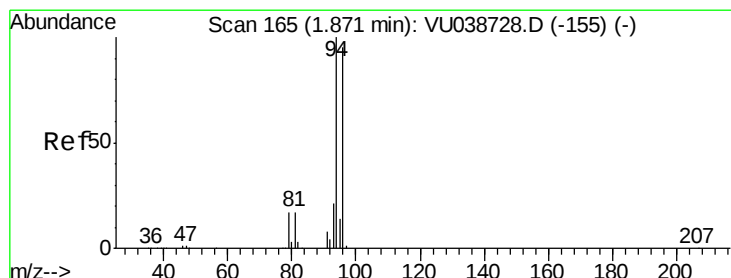
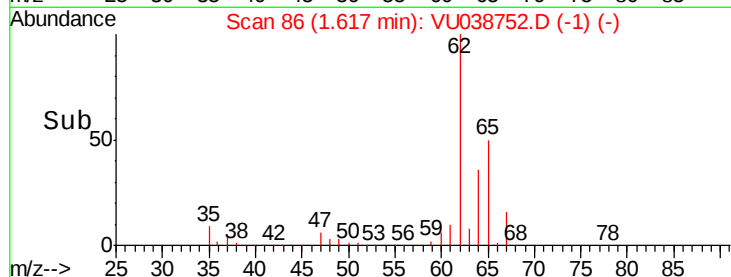
100000

50000

0

1.60 1.65

Time-->



#6

Bromomethane

Concen: 35.697 ug/L

RT: 1.87 min Scan# 166

Delta R.T. 0.00 min

Lab File: VU038752.D

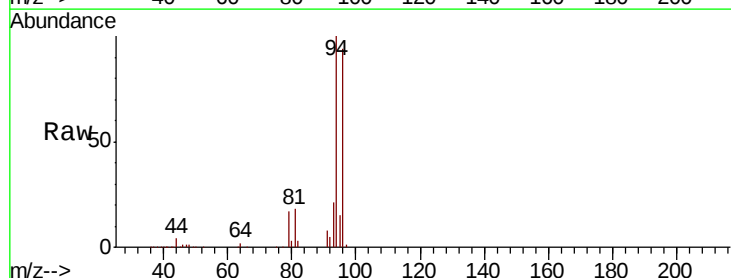
Acq: 10 Jun 2020 02:30

Tgt Ion: 94 Resp: 81020

Ion Ratio Lower Upper

94 100

96 93.9 66.2 123.0



Abundance Ion 94.00 (93.70 to 94.70): VU038728.D (-155) (-)

Ion 96.00 (95.70 to 96.70): VU038728.D (-155) (-)

1.87

80000

60000

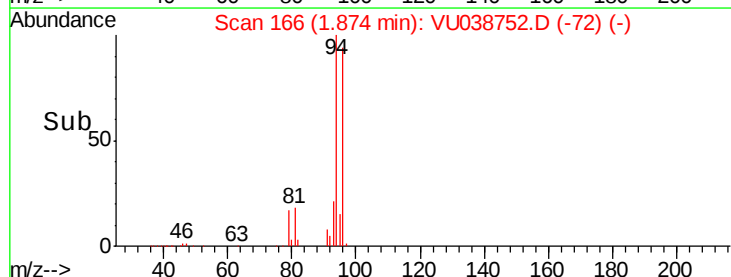
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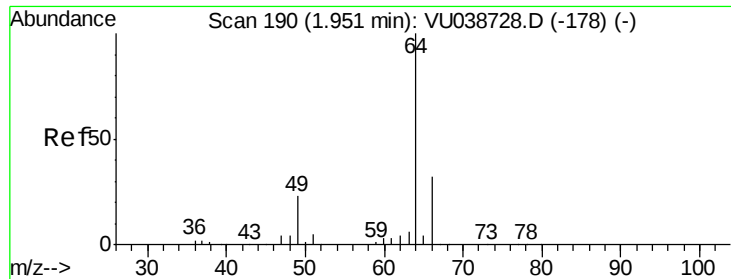
20000

0

1.85 1.90

Time-->

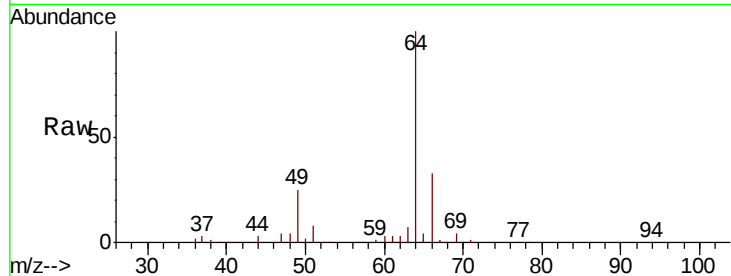




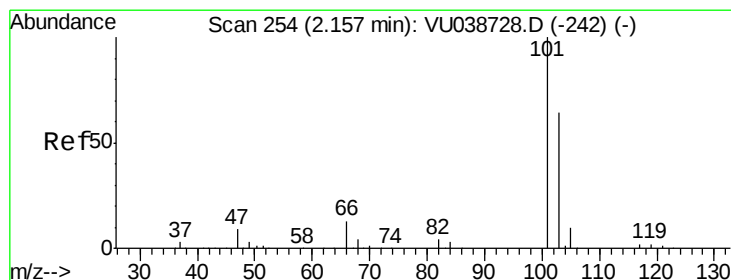
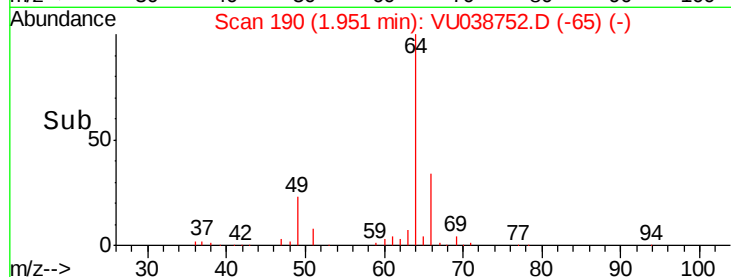
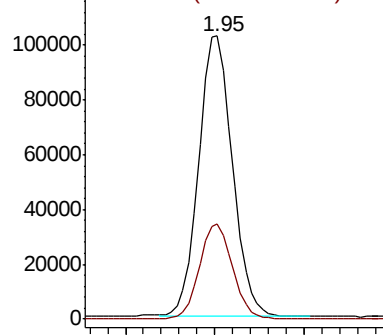
#8
Chloroethane
Concen: 52.689 ug/L
RT: 1.95 min Scan# 190
Delta R.T. 0.00 min
Lab File: VU038752.D
Acq: 10 Jun 2020 02:30

Instrument :
MSVOA_U
ClientSampleId :
VSTD05047

Tot Ion: 64 Resp: 134325
Ion Ratio Lower Upper
64 100
66 33.4 21.6 40.2

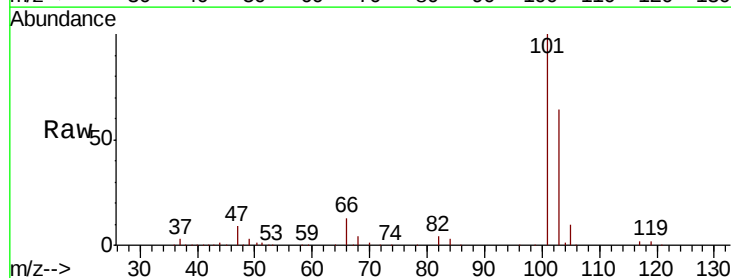


Abundance Ion 64.00 (63.70 to 64.70): VU038728.D (-178) (-)
Ion 66.00 (65.70 to 66.70): VU038728.D (-178) (-)

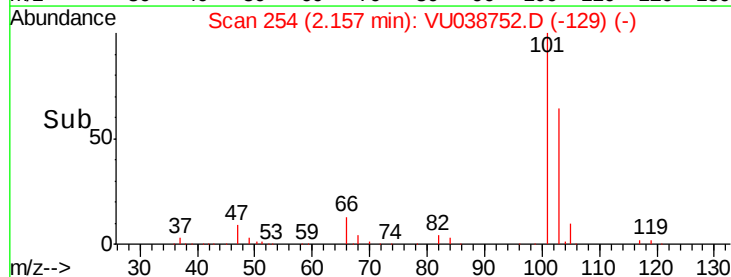
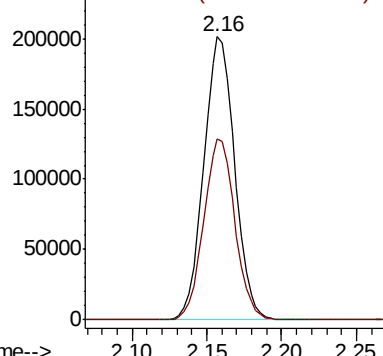


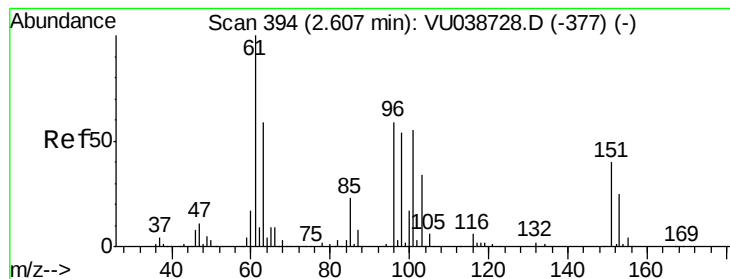
#9
Trichlorofluoromethane
Concen: 48.146 ug/L
RT: 2.16 min Scan# 254
Delta R.T. 0.00 min
Lab File: VU038752.D
Acq: 10 Jun 2020 02:30

Tgt Ion:101 Resp: 288951
Ion Ratio Lower Upper
101 100
103 64.6 51.7 77.5



Abundance Ion 101.00 (100.70 to 101.70): VU038728.D (-242) (-)
Ion 103.00 (102.70 to 103.70): VU038728.D (-242) (-)





#10

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

Concen: 44.442 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU038752.D

Acq: 10 Jun 2020 02:30

Instrument :

MSVOA_U

ClientSampleId :

VSTD05047

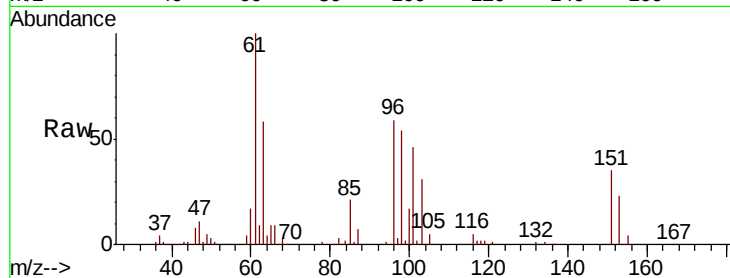
Tot Ion:101 Resp: 155469

Ion Ratio Lower Upper

101 100

85 44.0 35.1 52.7

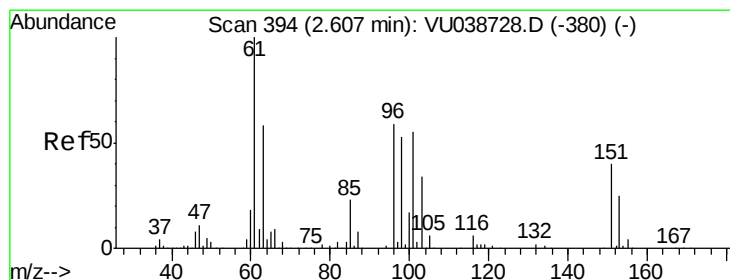
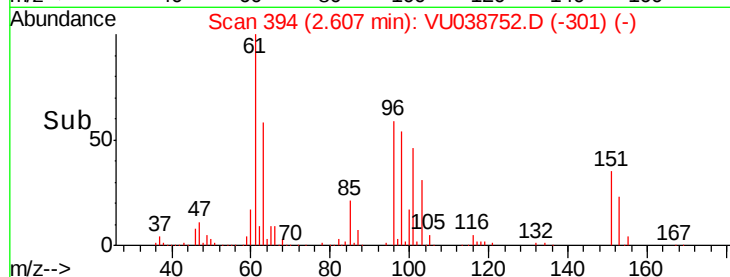
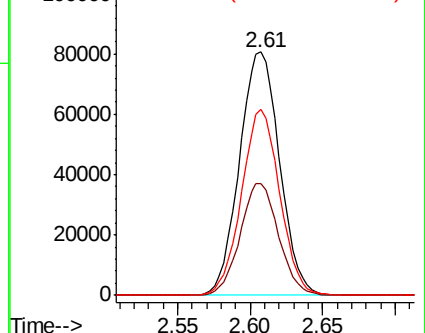
151 72.9 57.4 86.0



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: 48.797 ug/L

RT: 2.60 min Scan# 393

Delta R.T. -0.00 min

Lab File: VU038752.D

Acq: 10 Jun 2020 02:30

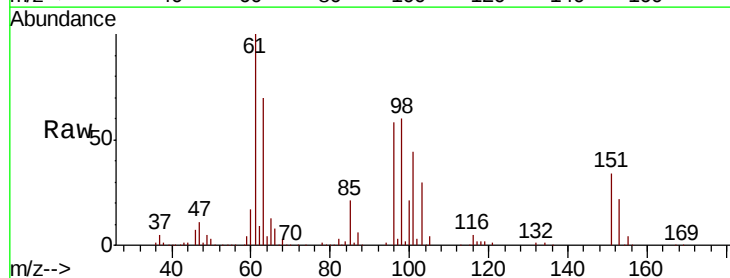
Tgt Ion: 96 Resp: 168244

Ion Ratio Lower Upper

96 100

61 171.7 120.0 223.0

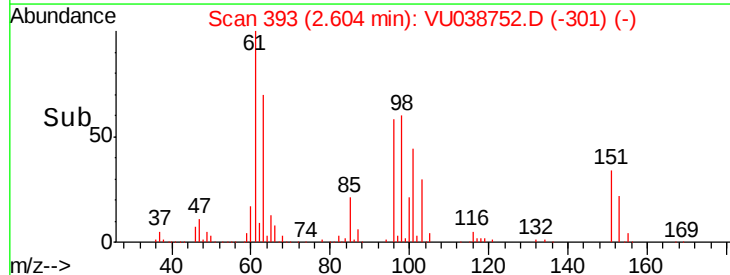
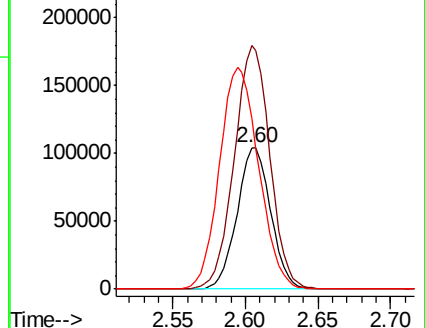
63 120.5 75.8 140.8

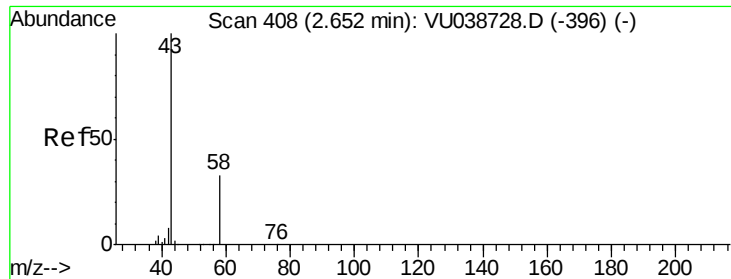


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0

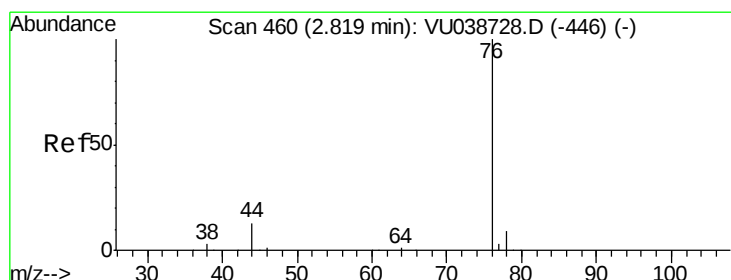
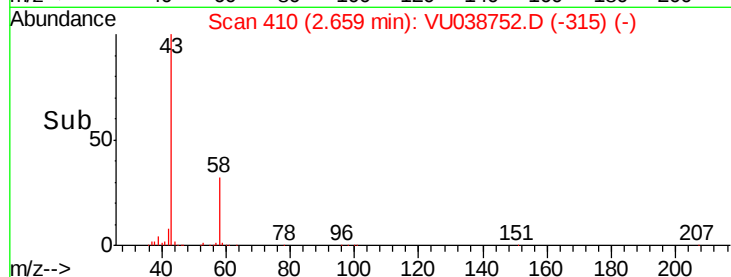
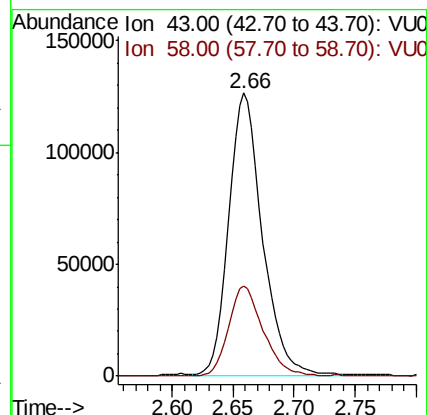
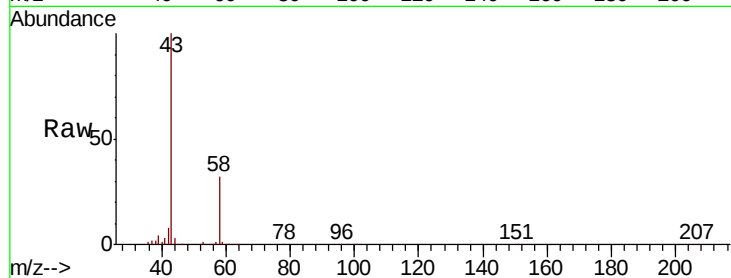




#13
Acetone
Concen: 103.242 ug/L
RT: 2.66 min Scan# 410
Delta R.T. 0.01 min
Lab File: VU038752.D
Acq: 10 Jun 2020 02:30

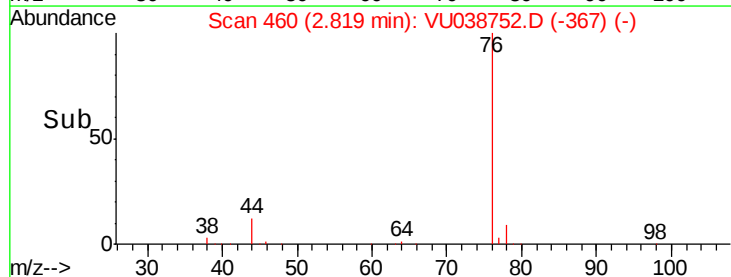
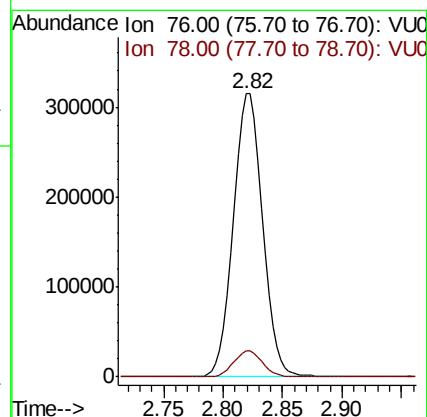
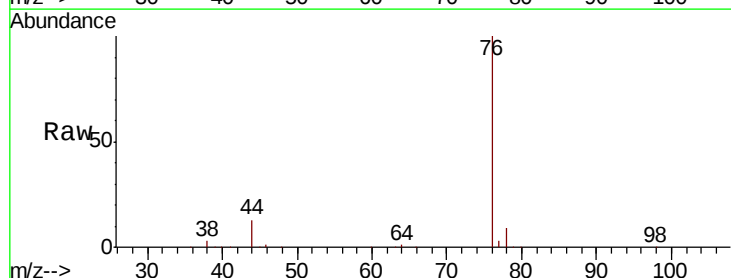
Instrument :
MSVOA_U
ClientSampleId :
VSTD05047

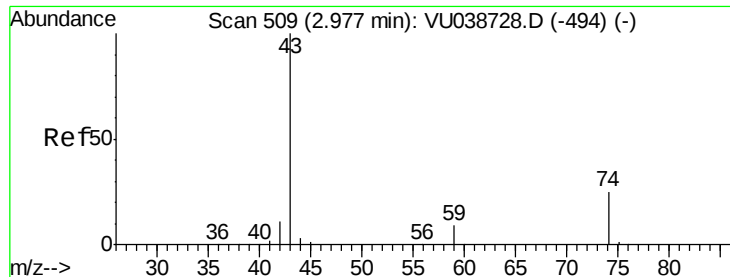
Tot Ion: 43 Resp: 246321
Ion Ratio Lower Upper
43 100
58 32.0 0.0 67.6



#14
Carbon disulfide
Concen: 48.186 ug/L
RT: 2.82 min Scan# 460
Delta R.T. 0.00 min
Lab File: VU038752.D
Acq: 10 Jun 2020 02:30

Tgt Ion: 76 Resp: 537979
Ion Ratio Lower Upper
76 100
78 9.1 7.4 11.2

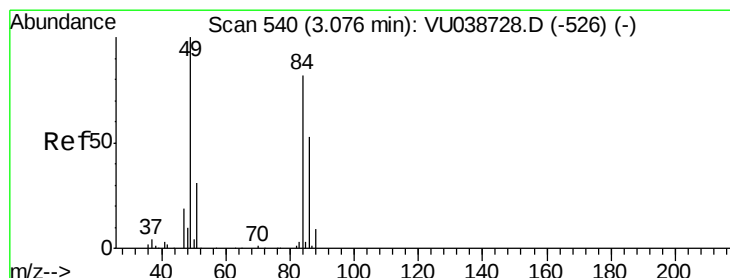
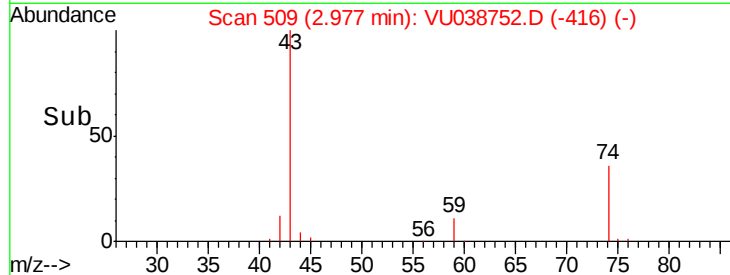
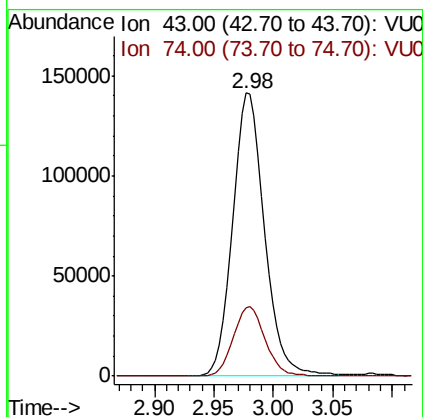
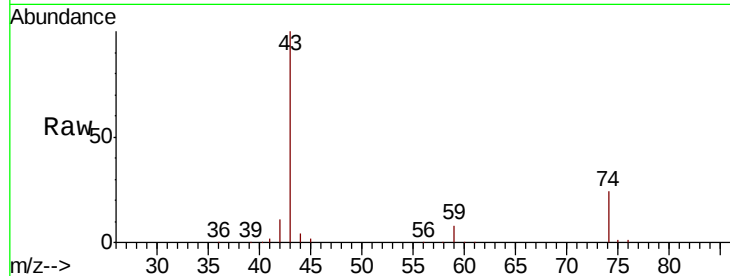




#15
Methvl Acetate
Concen: 52.504 ug/L
RT: 2.98 min Scan# 509
Delta R.T. 0.00 min
Lab File: VU038752.D
Acq: 10 Jun 2020 02:30

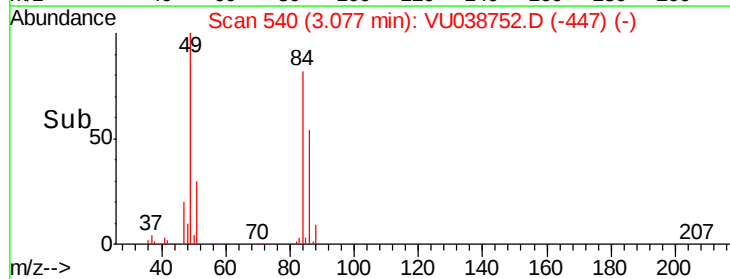
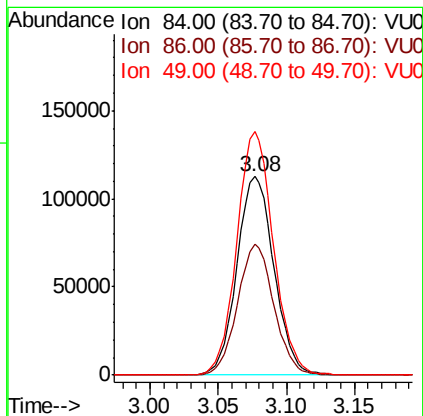
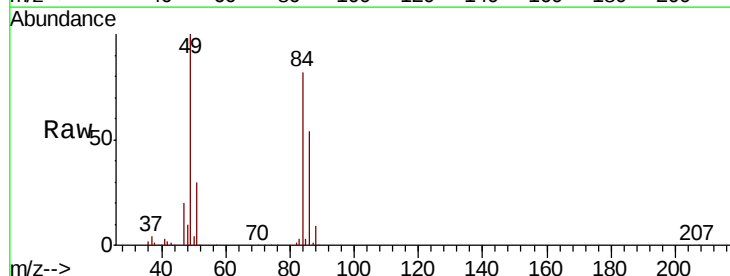
Instrument :
MSVOA_U
ClientSampleId :
VSTD05047

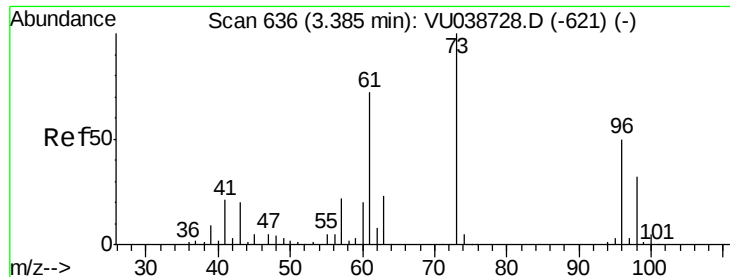
Tot Ion: 43 Resp: 261776
Ion Ratio Lower Upper
43 100
74 24.8 19.7 29.5



#16
Methylene chloride
Concen: 52.121 ug/L
RT: 3.08 min Scan# 540
Delta R.T. 0.00 min
Lab File: VU038752.D
Acq: 10 Jun 2020 02:30

Tgt Ion: 84 Resp: 213362
Ion Ratio Lower Upper
84 100
86 65.8 44.7 83.1
49 122.7 84.5 156.9

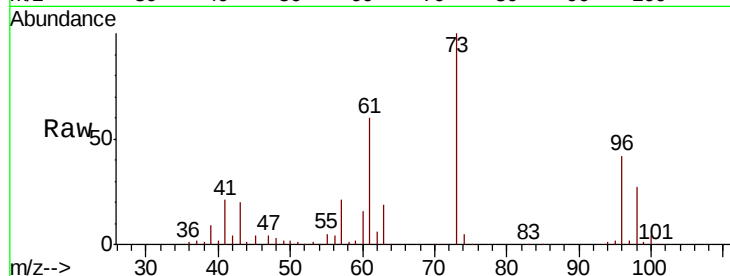




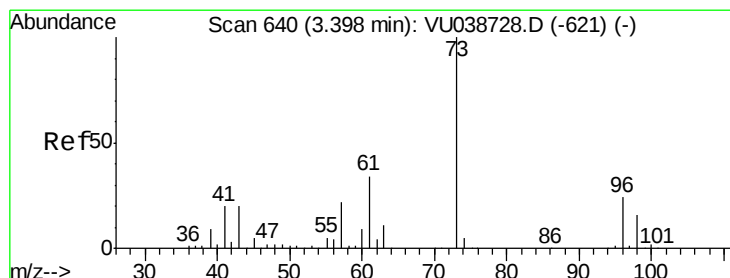
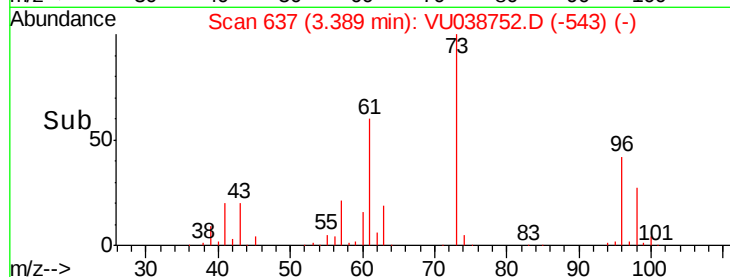
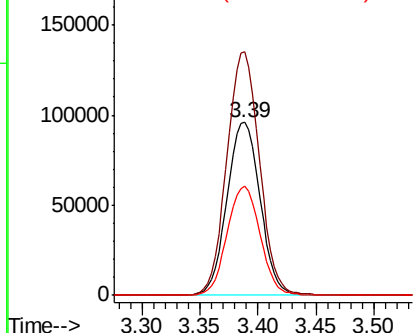
#17
trans-1,2-Dichloroethene
Concen: 50.411 ug/L
RT: 3.39 min Scan# 637
Delta R.T. 0.00 min
Lab File: VU038752.D
Acq: 10 Jun 2020 02:30

Instrument :
MSVOA_U
ClientSampleId :
VSTD05047

Tot Ion: 96 Resp: 190196
Ion Ratio Lower Upper
96 100
61 140.7 98.2 182.4
98 63.2 44.3 82.3

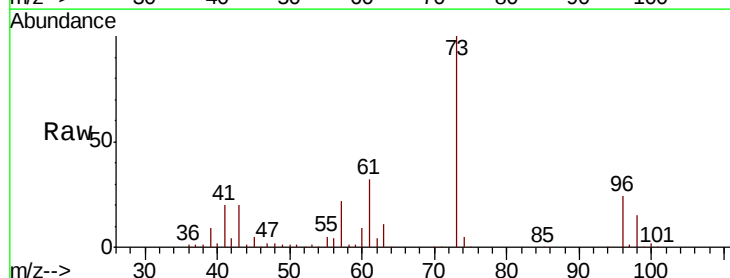


Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.00 (60.70 to 61.70): VU0
Ion 98.00 (97.70 to 98.70): VU0

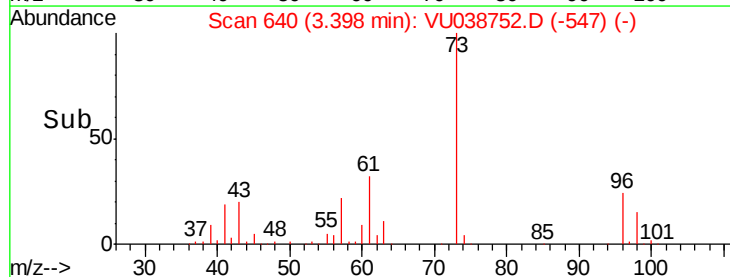
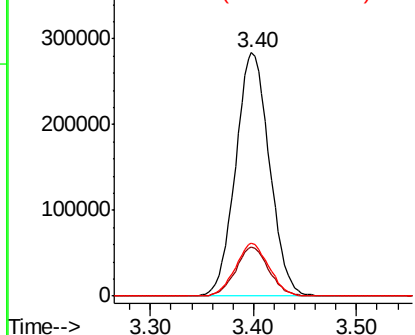


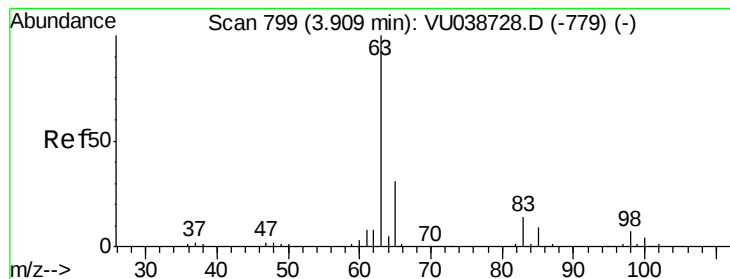
#18
Methyl tert-butyl Ether
Concen: 53.204 ug/L
RT: 3.40 min Scan# 640
Delta R.T. 0.00 min
Lab File: VU038752.D
Acq: 10 Jun 2020 02:30

Tgt Ion: 73 Resp: 649025
Ion Ratio Lower Upper
73 100
43 19.6 15.6 23.4
57 21.4 17.2 25.8



Abundance Ion 73.00 (72.70 to 73.70): VU0
Ion 43.00 (42.70 to 43.70): VU0
Ion 57.00 (56.70 to 57.70): VU0





#19

1,1-Dichloroethane

Concen: 50.881 ug/L

RT: 3.91 min Scan# 799

Delta R.T. 0.00 min

Lab File: VU038752.D

Acq: 10 Jun 2020 02:30

Instrument :

MSVOA_U

ClientSampleId :

VSTD05047

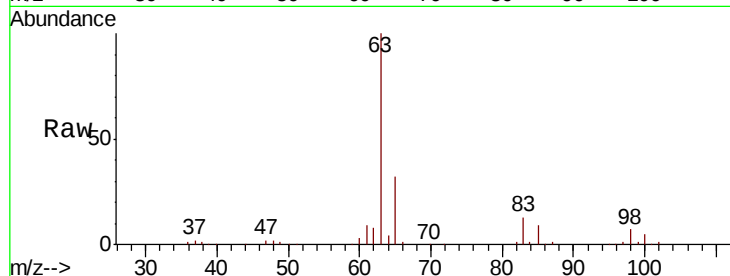
Tot Ion: 63 Resp: 363757

Ion Ratio Lower Upper

63 100

65 32.2 23.0 42.8

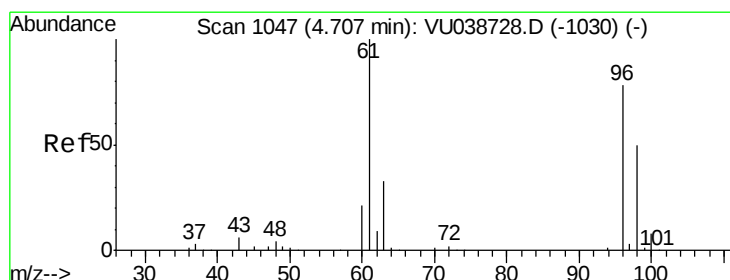
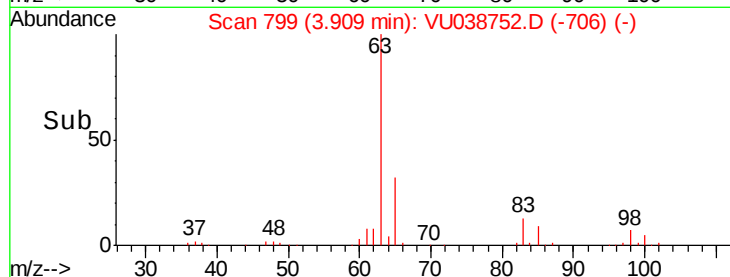
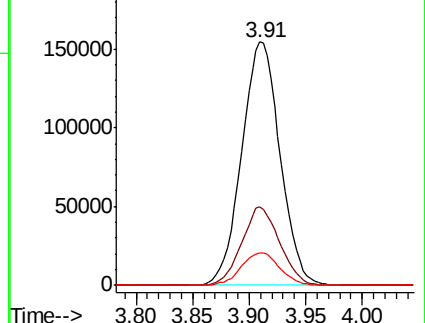
83 13.4 9.2 17.2



Abundance Ion 63.00 (62.70 to 63.70): VU038728.D (-779) (-)

Ion 65.00 (64.70 to 65.70): VU038728.D (-779) (-)

Ion 83.00 (82.70 to 83.70): VU038728.D (-779) (-)



#20

cis-1,2-Dichloroethene

Concen: 51.517 ug/L

RT: 4.71 min Scan# 1047

Delta R.T. 0.00 min

Lab File: VU038752.D

Acq: 10 Jun 2020 02:30

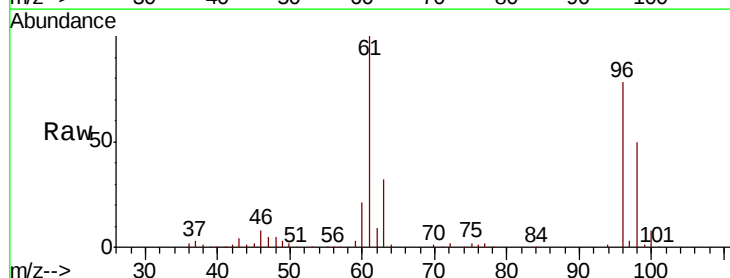
Tgt Ion: 96 Resp: 214861

Ion Ratio Lower Upper

96 100

61 127.7 89.5 166.1

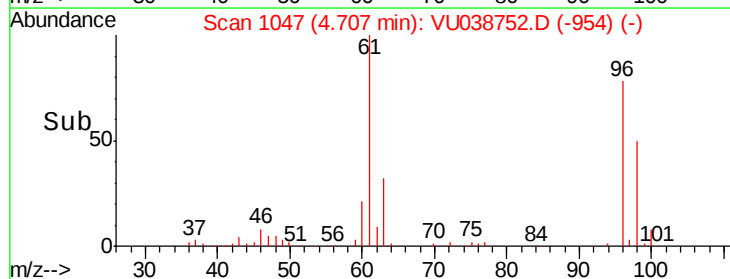
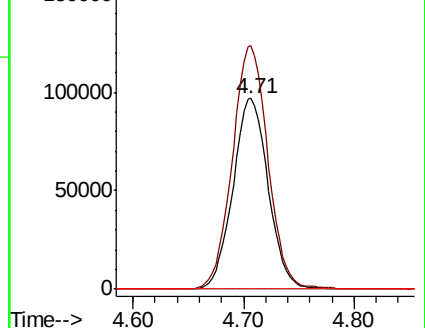
68 0.0 0.0 0.0

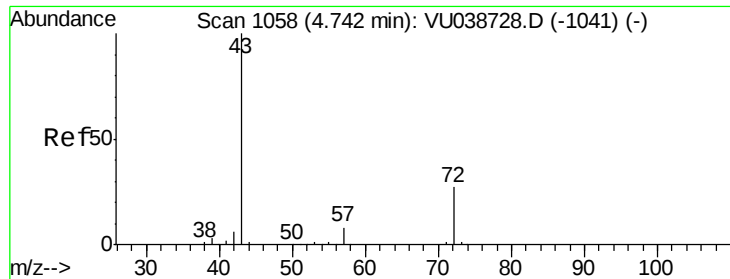


Abundance Ion 96.00 (95.70 to 96.70): VU038728.D (-1030) (-)

Ion 61.00 (60.70 to 61.70): VU038728.D (-1030) (-)

Ion 68.00 (67.70 to 68.70): VU038728.D (-1030) (-)





#22

2-Butanone

Concen: 107.077 ug/L

RT: 4.75 min Scan# 1059

Delta R.T. 0.00 min

Lab File: VU038752.D

Acq: 10 Jun 2020 02:30

Instrument :

MSVOA_U

ClientSampleId :

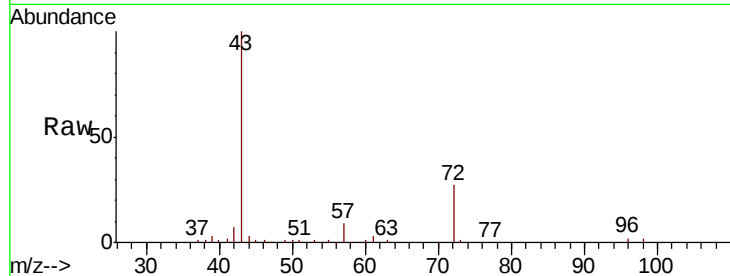
VSTD05047

Tot Ion: 43 Resp: 391782

Ion Ratio Lower Upper

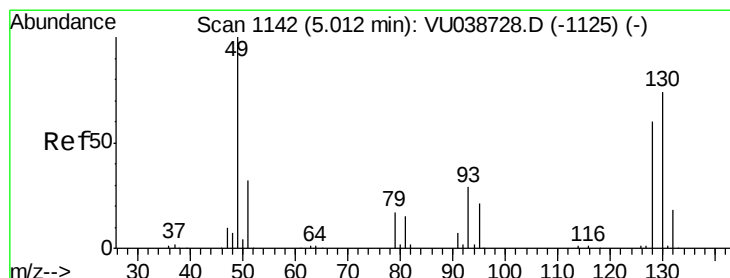
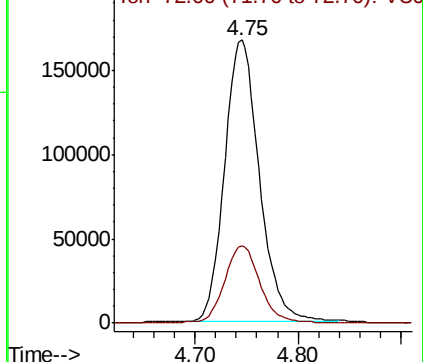
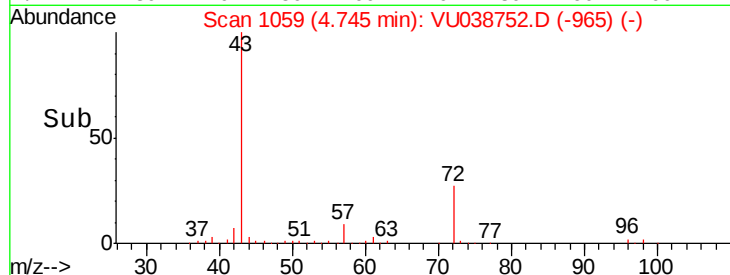
43 100

72 28.2 14.1 42.3



Abundance Ion 43.00 (42.70 to 43.70): VU038752.D (-965) (-)

Ion 72.00 (71.70 to 72.70): VU038752.D (-965) (-)



#23

Bromochloromethane

Concen: 52.865 ug/L

RT: 5.01 min Scan# 1142

Delta R.T. 0.00 min

Lab File: VU038752.D

Acq: 10 Jun 2020 02:30

Tgt Ion: 128 Resp: 109206

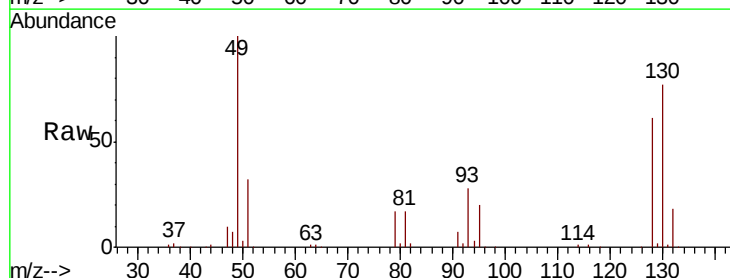
Ion Ratio Lower Upper

128 100

49 164.9 118.6 220.2

130 127.5 92.5 171.7

51 52.7 43.1 64.7

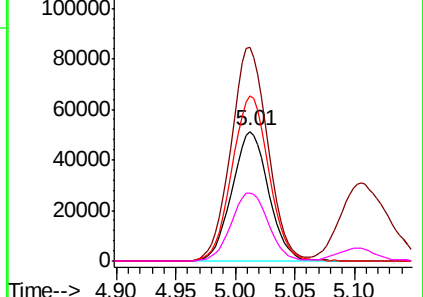
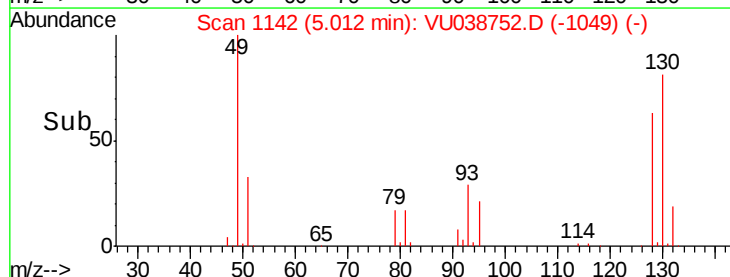


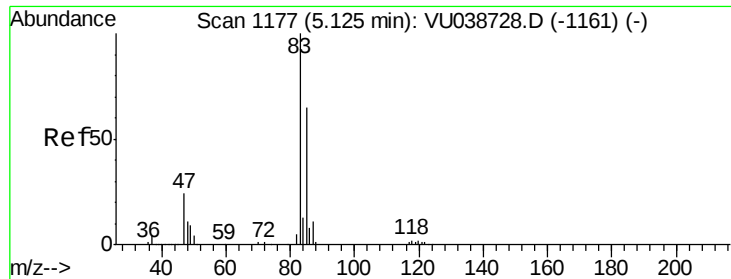
Abundance Ion 128.00 (127.70 to 128.70): VU038752.D (-1049) (-)

Ion 49.00 (48.70 to 49.70): VU038752.D (-1049) (-)

Ion 130.00 (129.70 to 130.70): VU038752.D (-1049) (-)

Ion 51.00 (50.70 to 51.70): VU038752.D (-1049) (-)

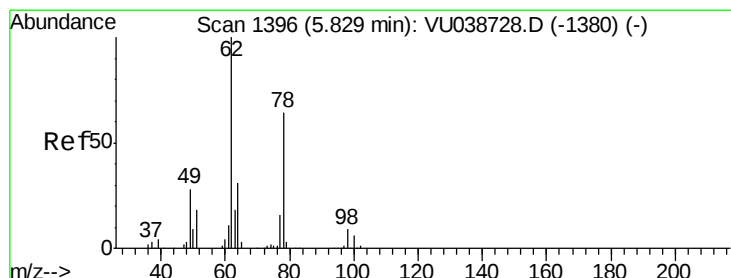
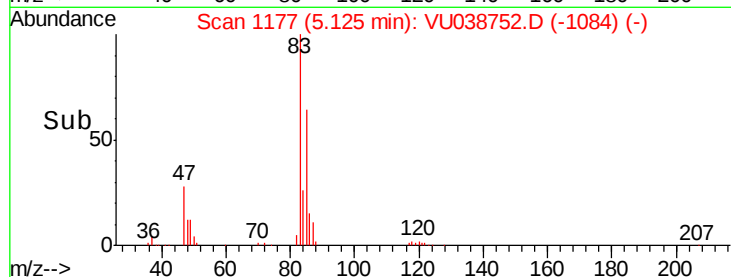
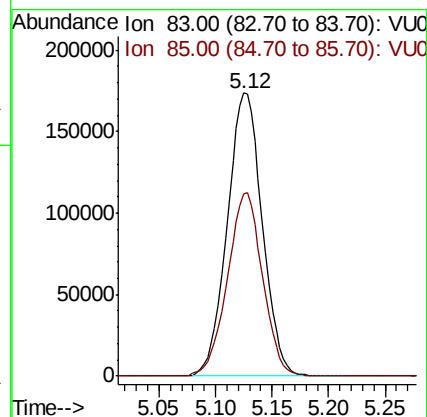
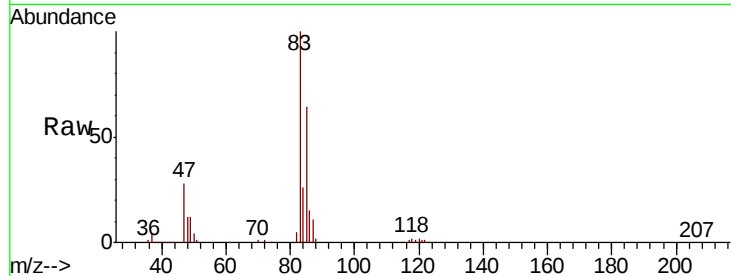




#25
Chloroform
Concen: 52.243 ug/L
RT: 5.12 min Scan# 1177
Delta R.T. 0.00 min
Lab File: VU038752.D
Acq: 10 Jun 2020 02:30

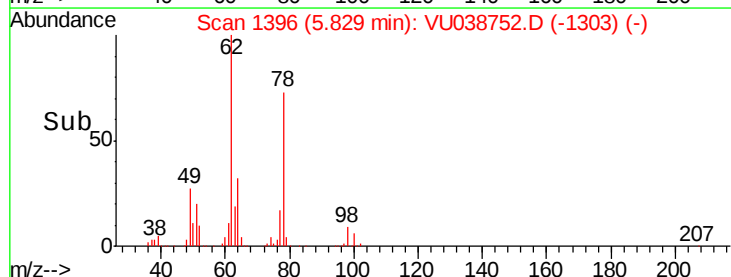
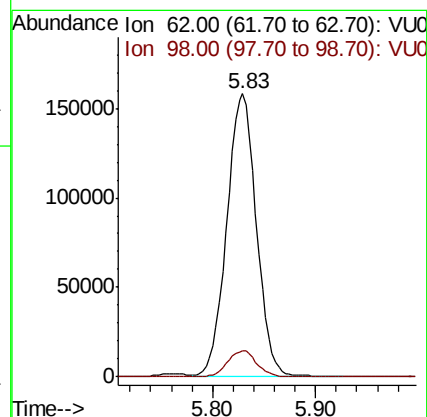
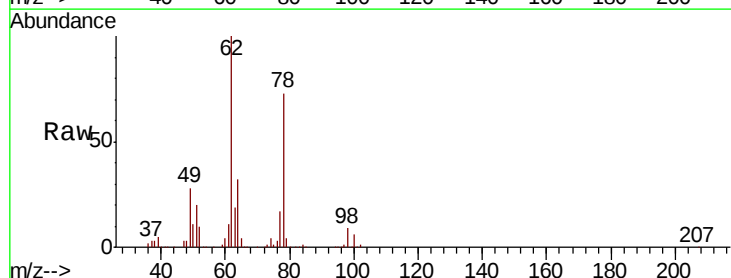
Instrument :
MSVOA_U
ClientSampleId :
VSTD05047

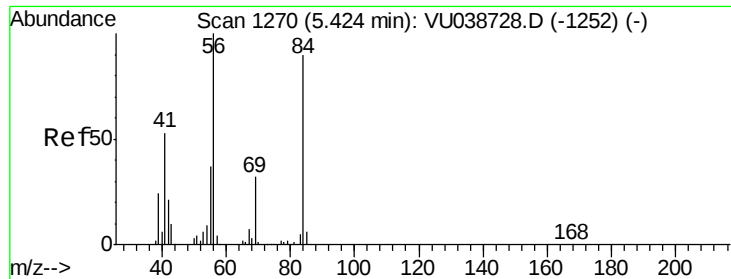
Tot Ion: 83 Resp: 373788
Ion Ratio Lower Upper
83 100
85 64.4 47.0 87.4



#27
1,2-Dichloroethane
Concen: 53.352 ug/L
RT: 5.83 min Scan# 1396
Delta R.T. 0.00 min
Lab File: VU038752.D
Acq: 10 Jun 2020 02:30

Tgt Ion: 62 Resp: 315787
Ion Ratio Lower Upper
62 100
98 9.2 7.8 11.6

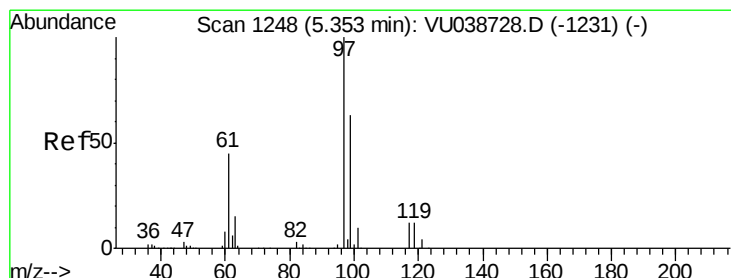
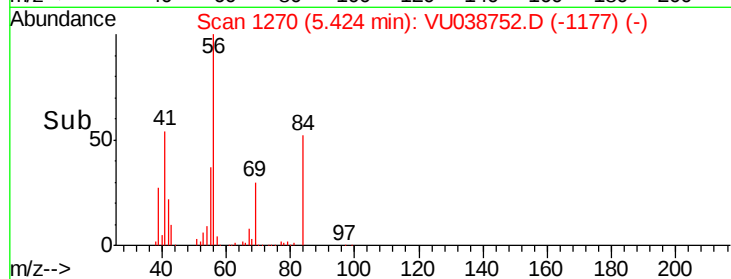
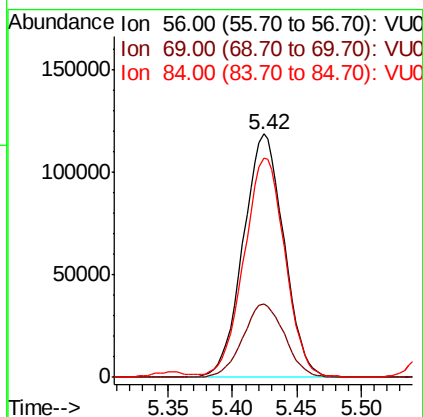
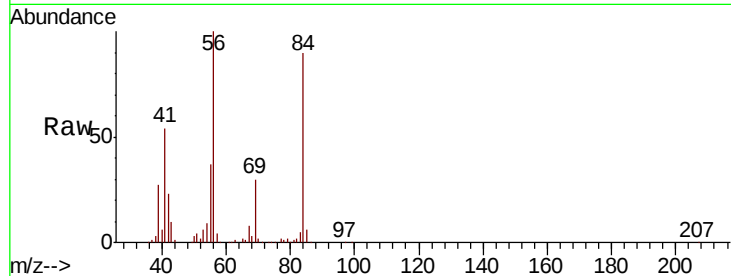




#29
Cyclohexane
Concen: 42.912 ug/L
RT: 5.42 min Scan# 1270
Delta R.T. 0.00 min
Lab File: VU038752.D
Acq: 10 Jun 2020 02:30

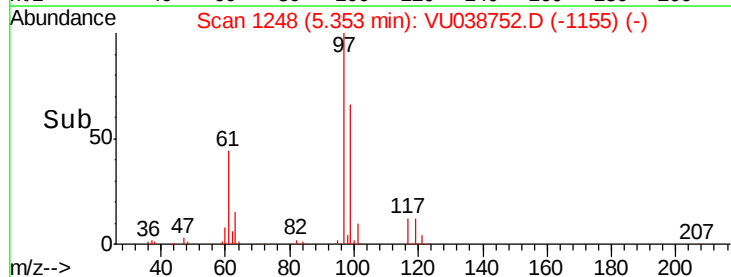
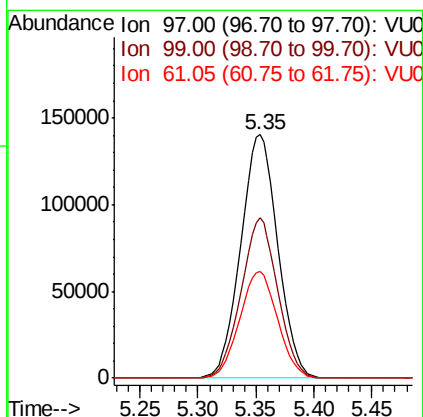
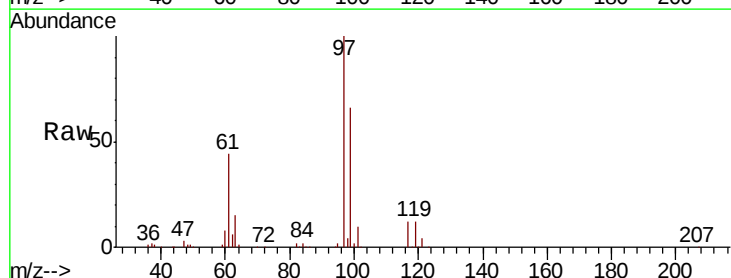
Instrument :
MSVOA_U
ClientSampleId :
VSTD05047

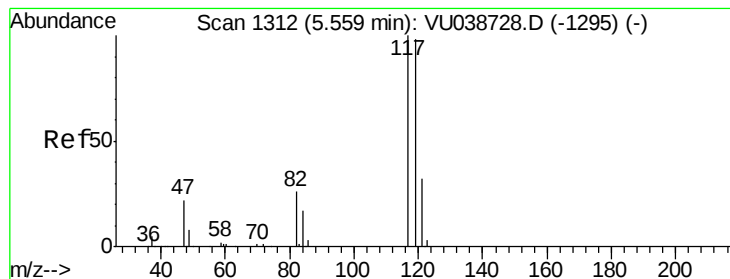
Tot Ion	Ratio	Lower	Upper
56	100		
69	30.8	25.1	37.7
84	90.4	70.5	105.7



#30
1,1,1-Trichloroethane
Concen: 49.989 ug/L
RT: 5.35 min Scan# 1248
Delta R.T. 0.00 min
Lab File: VU038752.D
Acq: 10 Jun 2020 02:30

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.7	51.6	77.4
61	44.7	35.2	52.8





#31

Carbon tetrachloride

Concen: 48.641 ug/L

RT: 5.56 min Scan# 1312

Delta R.T. 0.00 min

Lab File: VU038752.D

Acq: 10 Jun 2020 02:30

Instrument :

MSVOA_U

ClientSampleId :

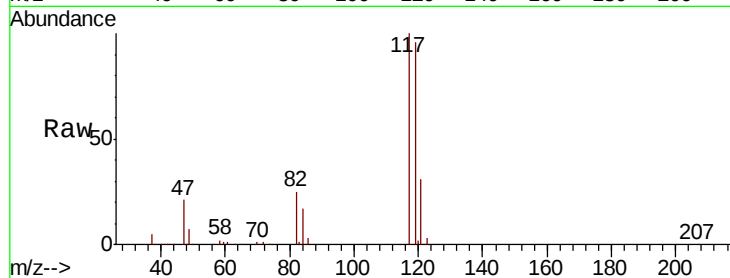
VSTD05047

Tot Ion:117 Resp: 251439

Ion Ratio Lower Upper

117 100

119 95.6 76.6 114.8



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

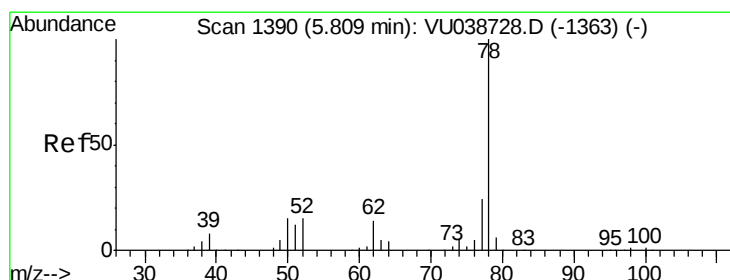
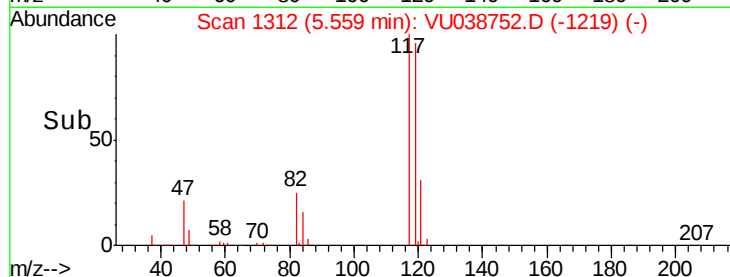
5.56

100000

50000

0

Time--> 5.45 5.50 5.55 5.60 5.65



#33

Benzene

Concen: 51.086 ug/L

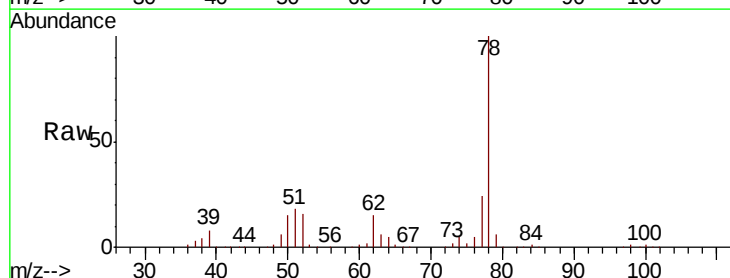
RT: 5.81 min Scan# 1390

Delta R.T. 0.00 min

Lab File: VU038752.D

Acq: 10 Jun 2020 02:30

Tgt Ion: 78 Resp: 806187



Abundance Ion 78.00 (77.70 to 78.70): VU0

5.81

400000

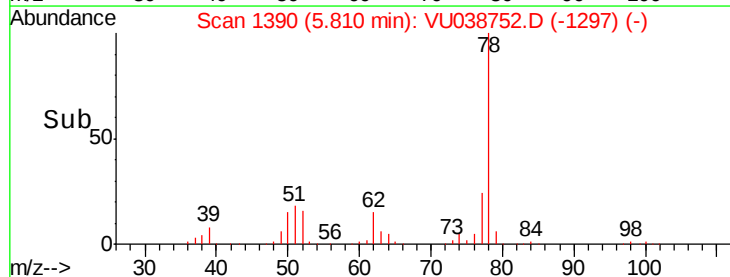
300000

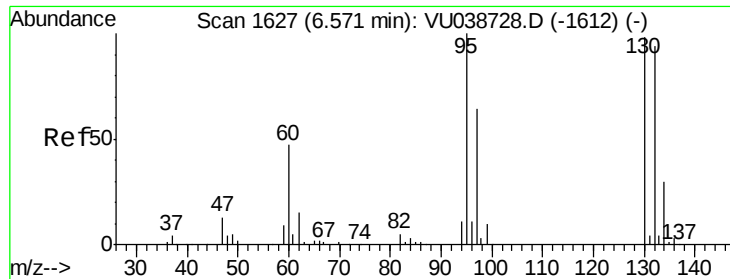
200000

100000

0

Time--> 5.70 5.80 5.90

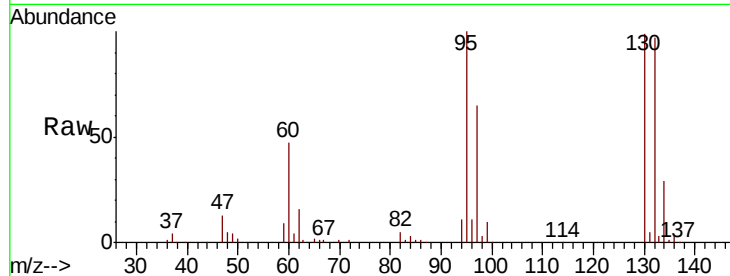




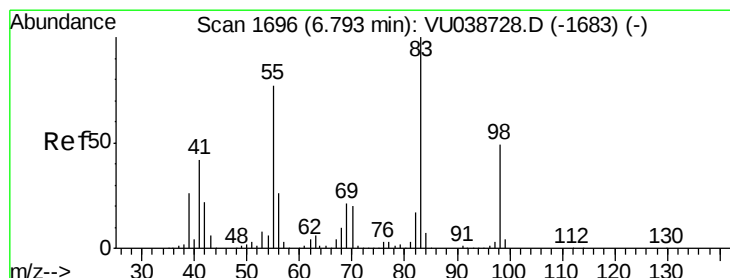
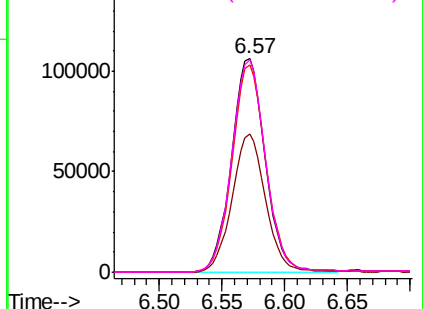
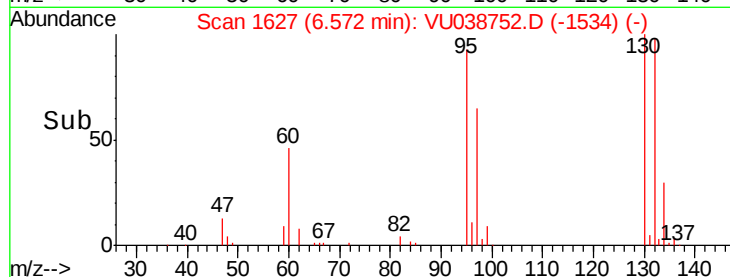
#34
 Trichloroethene
 Concen: 49.471 ug/L
 RT: 6.57 min Scan# 1627
 Delta R.T. 0.00 min
 Lab File: VU038752.D
 Acq: 10 Jun 2020 02:30

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05047

Tot Ion: 95 Resp: 198560
 Ion Ratio Lower Upper
 95 100
 97 64.6 44.4 82.4
 132 96.9 64.9 120.5
 130 99.4 68.6 127.4

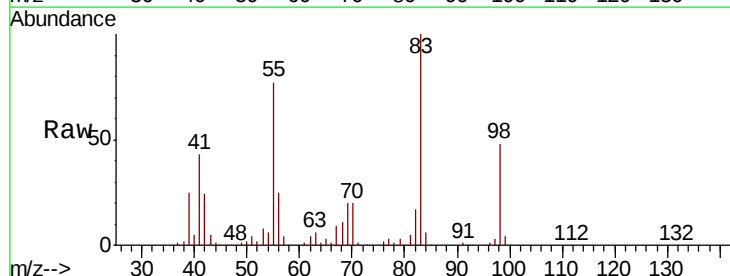


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 97.00 (96.70 to 97.70): VU0
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

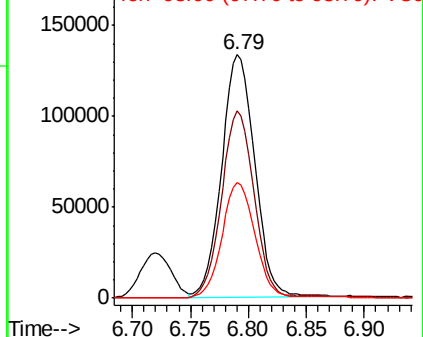
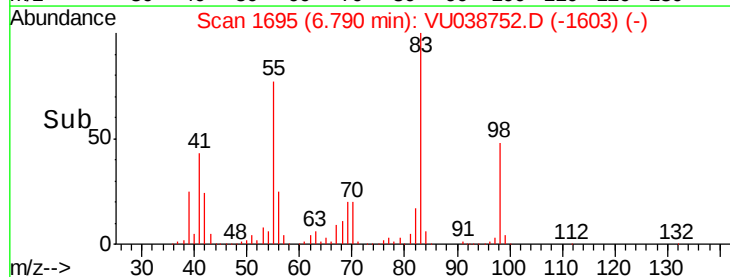


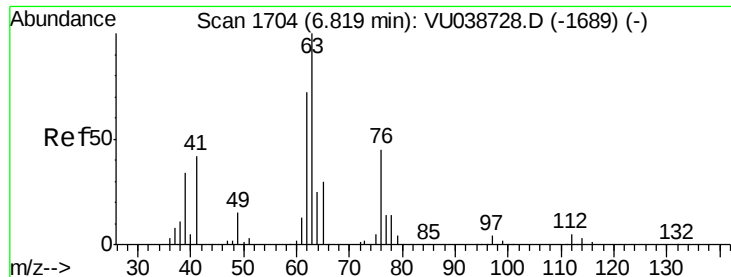
#35
 Methylcyclohexane
 Concen: 43.712 ug/L
 RT: 6.79 min Scan# 1695
 Delta R.T. -0.00 min
 Lab File: VU038752.D
 Acq: 10 Jun 2020 02:30

Tgt Ion: 83 Resp: 264591
 Ion Ratio Lower Upper
 83 100
 55 75.9 63.2 94.8
 98 47.3 38.4 57.6



Abundance Ion 83.00 (82.70 to 83.70): VU0
 Ion 55.00 (54.70 to 55.70): VU0
 Ion 98.00 (97.70 to 98.70): VU0

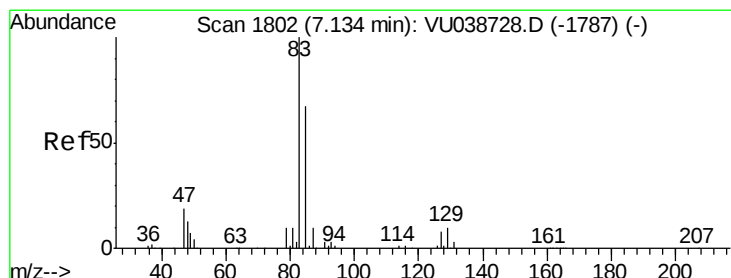
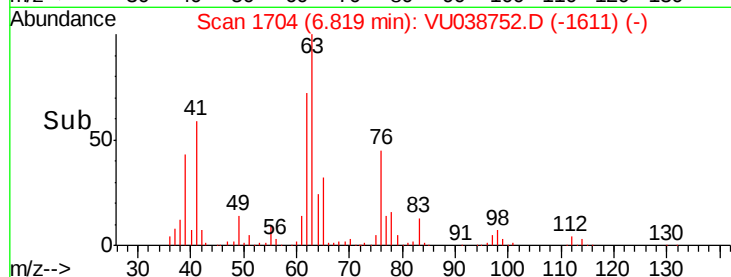
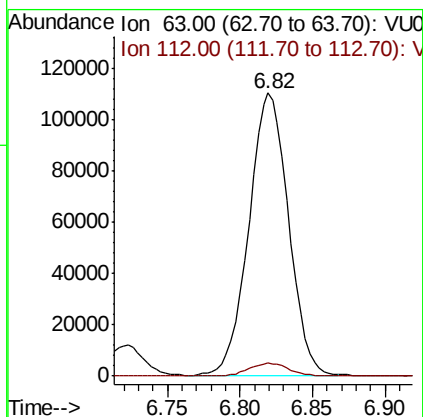
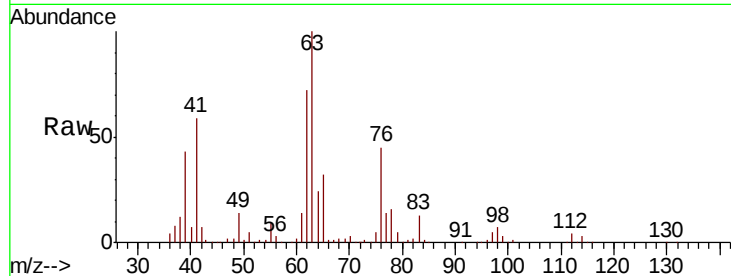




#37
 1,2-Dichloropropane
 Concen: 50.954 ug/L
 RT: 6.82 min Scan# 1704
 Delta R.T. 0.00 min
 Lab File: VU038752.D
 Acq: 10 Jun 2020 02:30

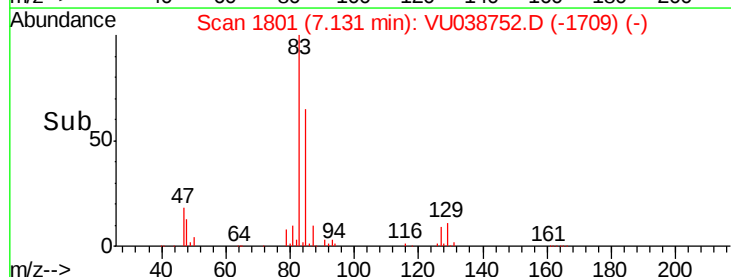
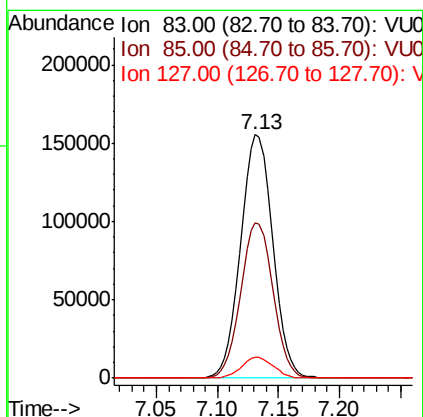
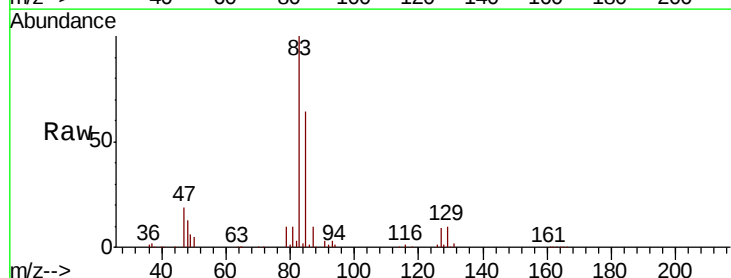
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05047

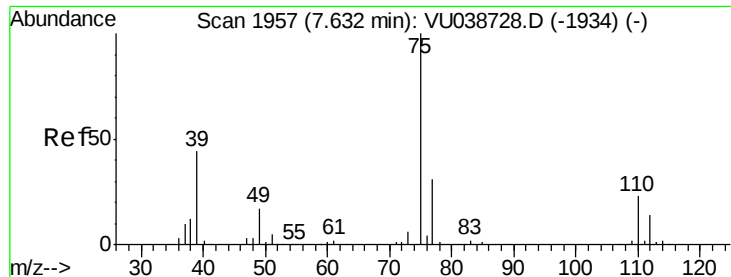
Tot Ion: 63 Resp: 209541
 Ion Ratio Lower Upper
 63 100
 112 4.7 3.4 5.2



#38
 Bromodichloromethane
 Concen: 53.320 ug/L
 RT: 7.13 min Scan# 1801
 Delta R.T. -0.00 min
 Lab File: VU038752.D
 Acq: 10 Jun 2020 02:30

Tgt Ion: 83 Resp: 281090
 Ion Ratio Lower Upper
 83 100
 85 63.8 45.1 83.9
 127 8.7 7.0 10.4

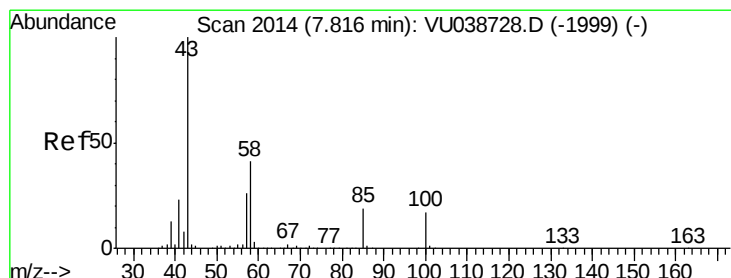
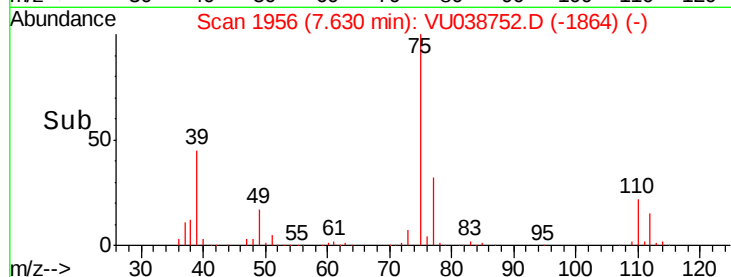
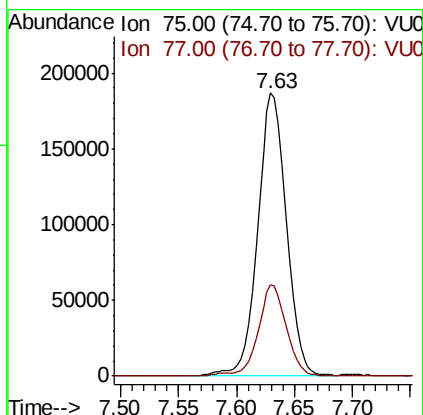
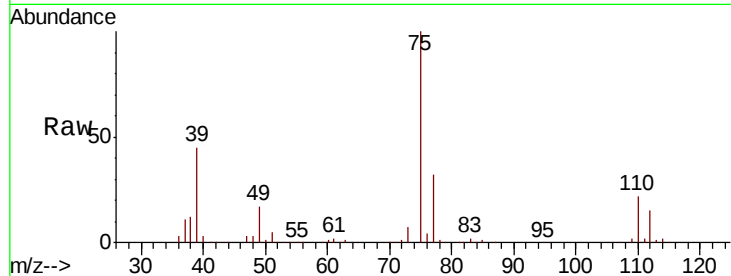




#39
 cis-1,3-Dichloropropene
 Concen: 50.952 ug/L
 RT: 7.63 min Scan# 1956
 Delta R.T. -0.00 min
 Lab File: VU038752.D
 Acq: 10 Jun 2020 02:30

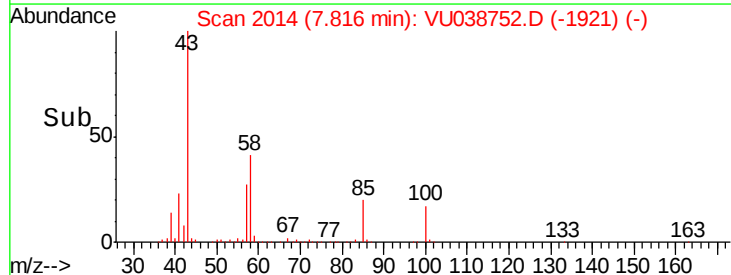
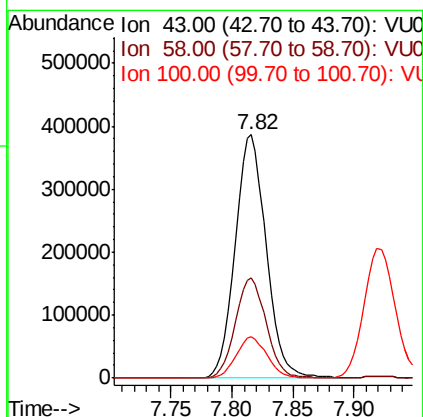
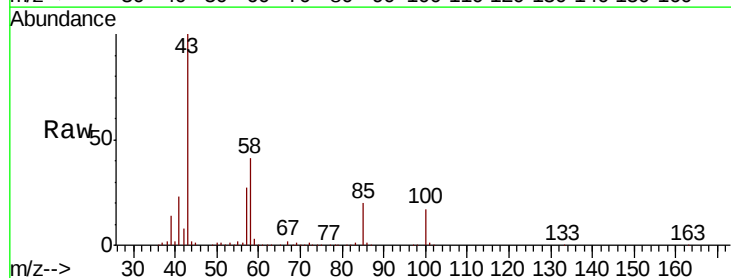
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05047

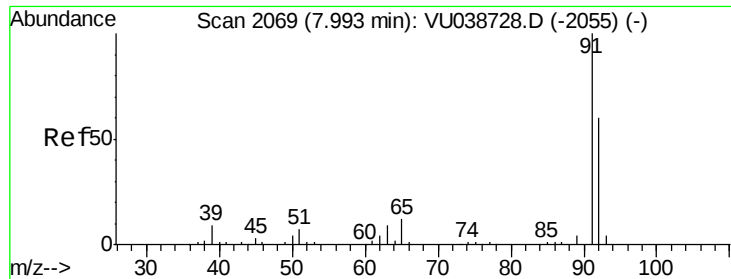
Tot Ion: 75 Resp: 323144
 Ion Ratio Lower Upper
 75 100
 77 32.1 22.2 41.2



#40
 4-Methyl-2-pentanone
 Concen: 105.986 ug/L
 RT: 7.82 min Scan# 2014
 Delta R.T. 0.00 min
 Lab File: VU038752.D
 Acq: 10 Jun 2020 02:30

Tgt Ion: 43 Resp: 681382
 Ion Ratio Lower Upper
 43 100
 58 41.1 33.0 49.4
 100 16.9 13.4 20.0





#42

Toluene

Concen: 50.366 ug/L

RT: 7.99 min Scan# 2069

Delta R.T. 0.00 min

Lab File: VU038752.D

Acq: 10 Jun 2020 02:30

Instrument :

MSVOA_U

ClientSampleId :

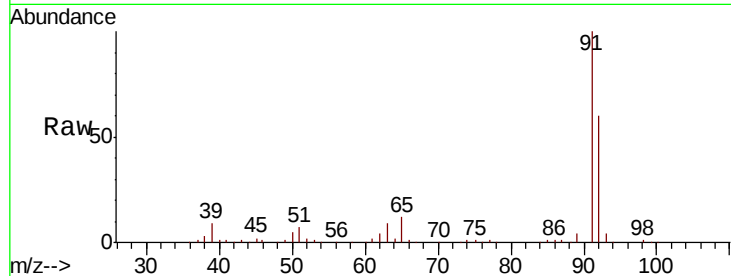
VSTD05047

Tot Ion: 91 Resp: 831076

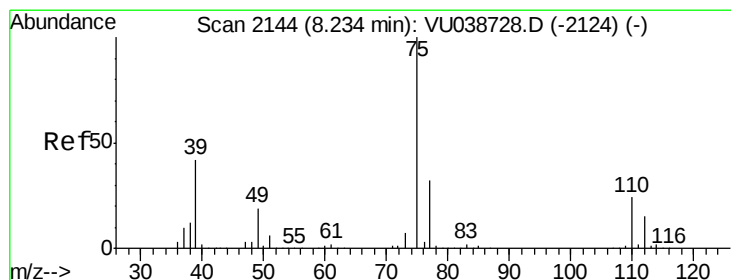
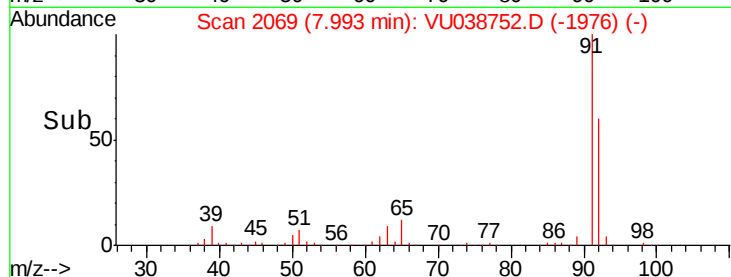
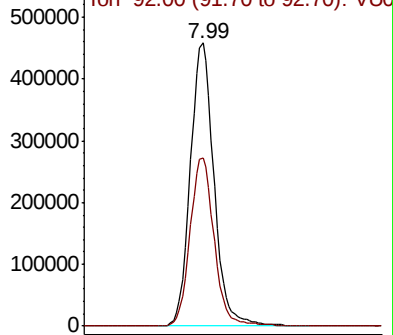
Ion Ratio Lower Upper

91 100

92 59.6 42.2 78.4



Abundance Ion 91.00 (90.70 to 91.70): VU038728.D (-2055) (-)



#44

trans-1,3-Dichloropropene

Concen: 51.286 ug/L

RT: 8.23 min Scan# 2143

Delta R.T. -0.00 min

Lab File: VU038752.D

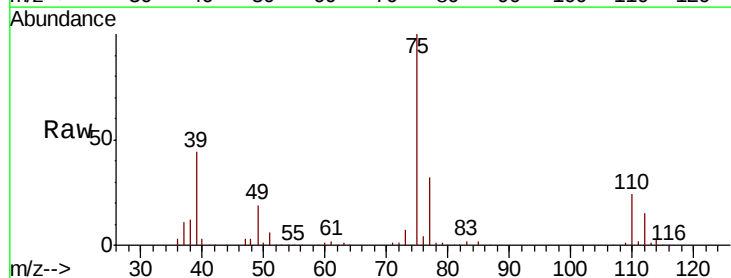
Acq: 10 Jun 2020 02:30

Tgt Ion: 75 Resp: 311554

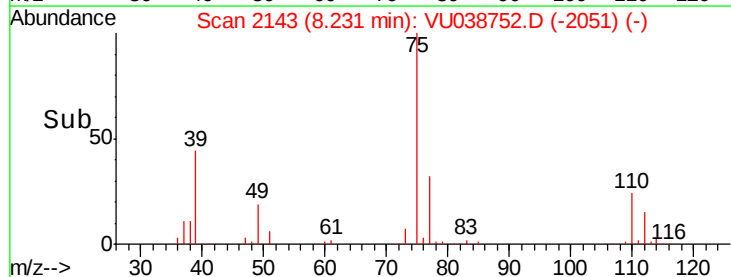
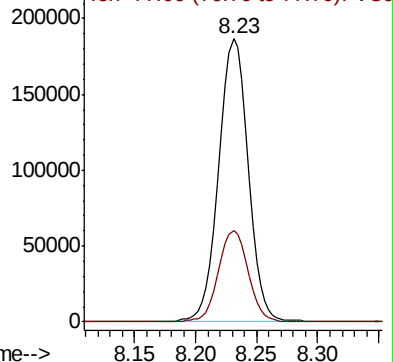
Ion Ratio Lower Upper

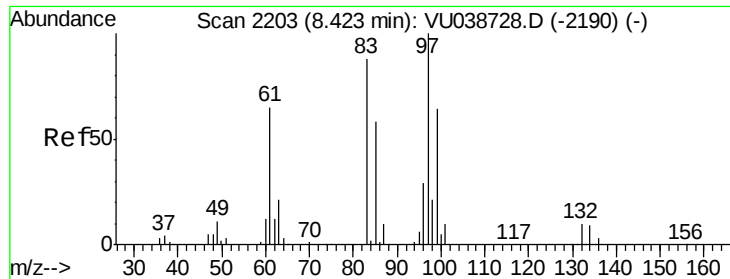
75 100

77 32.5 22.5 41.7



Abundance Ion 75.00 (74.70 to 75.70): VU038728.D (-2124) (-)

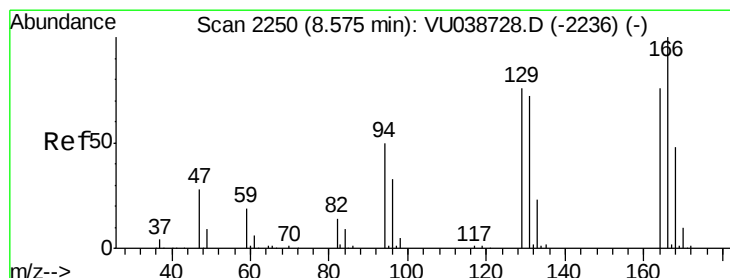
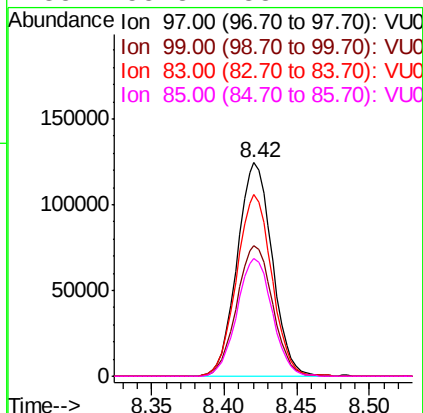
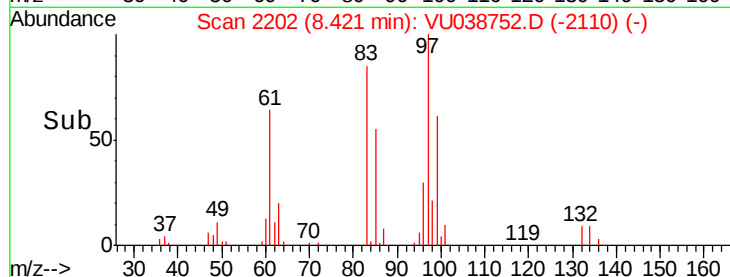
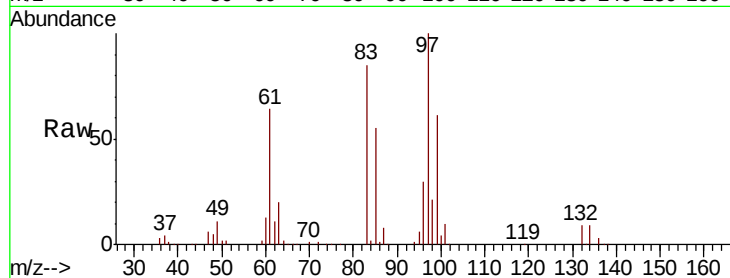




#45
1,1,2-Trichloroethane
Concen: 52.886 ug/L
RT: 8.42 min Scan# 2202
Delta R.T. -0.00 min
Lab File: VU038752.D
Acq: 10 Jun 2020 02:30

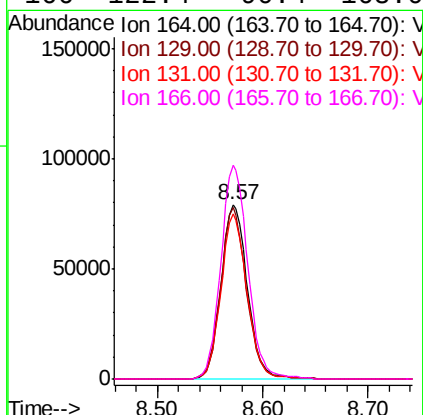
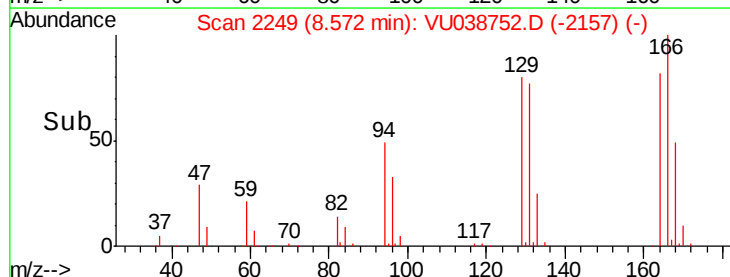
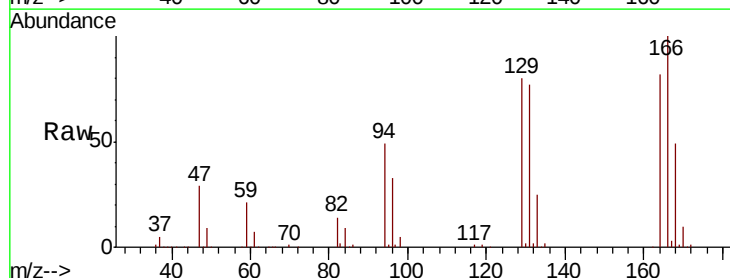
Instrument :
MSVOA_U
ClientSampleId :
VSTD05047

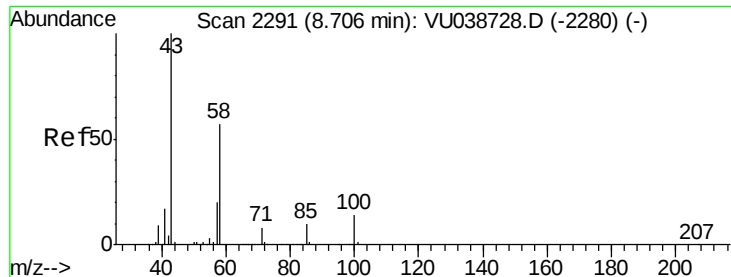
Tot Ion:	97	Resp:	209330
Ion	Ratio	Lower	Upper
97	100		
99	61.4	43.6	81.0
83	84.9	60.0	111.4
85	55.3	38.4	71.2



#46
Tetrachloroethene
Concen: 47.320 ug/L
RT: 8.57 min Scan# 2249
Delta R.T. -0.00 min
Lab File: VU038752.D
Acq: 10 Jun 2020 02:30

Tgt Ion:	164	Resp:	137020
Ion	Ratio	Lower	Upper
164	100		
129	98.4	67.2	124.8
131	94.8	65.5	121.6
166	122.4	90.4	168.0

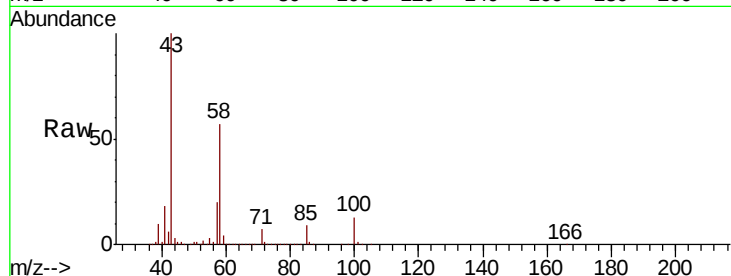




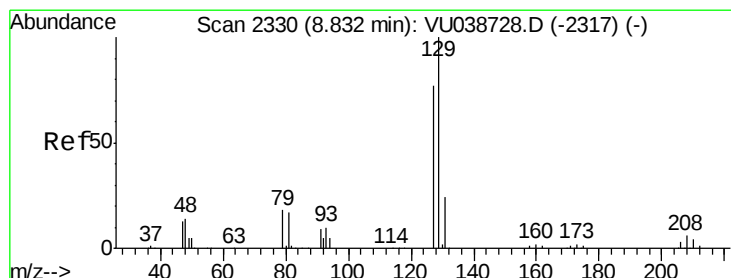
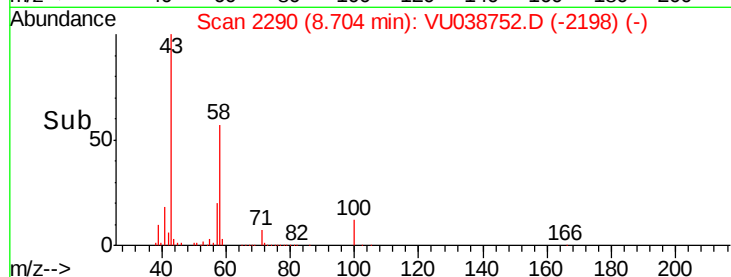
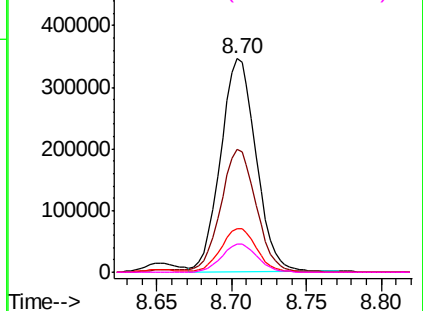
#48
2-Hexanone
Concen: 107.382 ug/L
RT: 8.70 min Scan# 2290
Delta R.T. -0.00 min
Lab File: VU038752.D
Acq: 10 Jun 2020 02:30

Instrument :
MSVOA_U
ClientSampleId :
VSTD05047

Tot Ion:	43	Resp:	570675
Ion	Ratio	Lower	Upper
43	100		
58	57.3	46.2	69.4
57	20.5	16.6	24.8
100	13.4	10.6	16.0

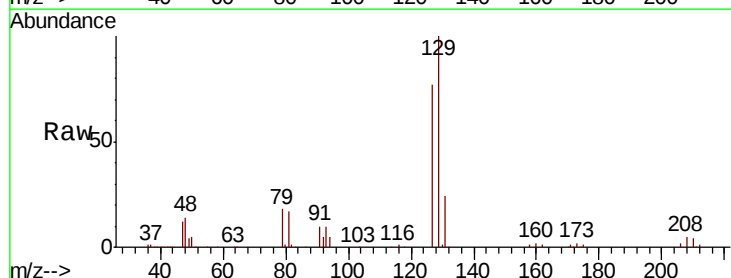


Abundance Ion 43.00 (42.70 to 43.70): VU038752.D (-2280) (-)
Ion 58.00 (57.70 to 58.70): VU038752.D (-2280) (-)
Ion 57.00 (56.70 to 57.70): VU038752.D (-2280) (-)
Ion 100.00 (99.70 to 100.70): VU038752.D (-2280) (-)

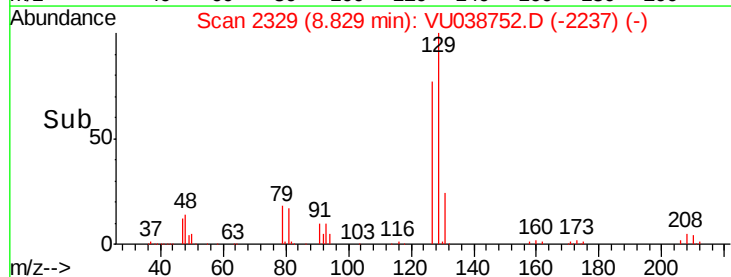
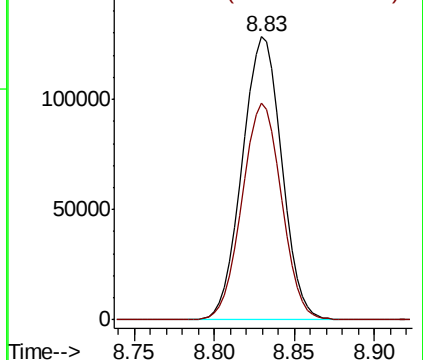


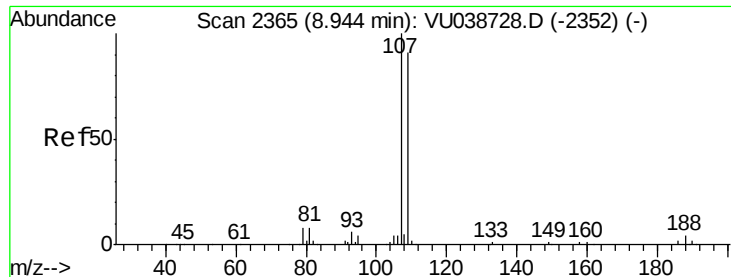
#49
Dibromochloromethane
Concen: 53.323 ug/L
RT: 8.83 min Scan# 2329
Delta R.T. -0.00 min
Lab File: VU038752.D
Acq: 10 Jun 2020 02:30

Tgt Ion:	129	Resp:	216756
Ion	Ratio	Lower	Upper
129	100		
127	76.6	55.8	103.6



Abundance Ion 129.00 (128.70 to 129.70): VU038752.D (-2317) (-)
Ion 127.00 (126.70 to 127.70): VU038752.D (-2317) (-)

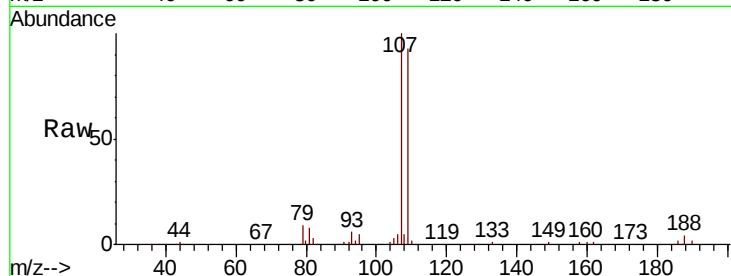




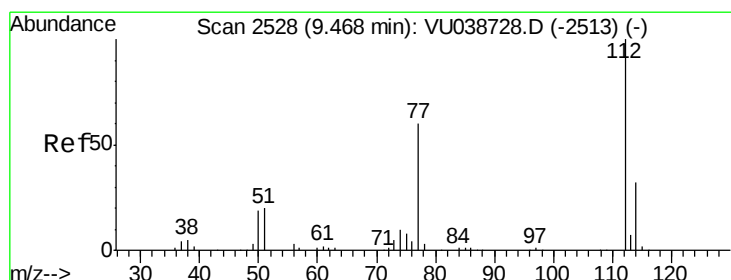
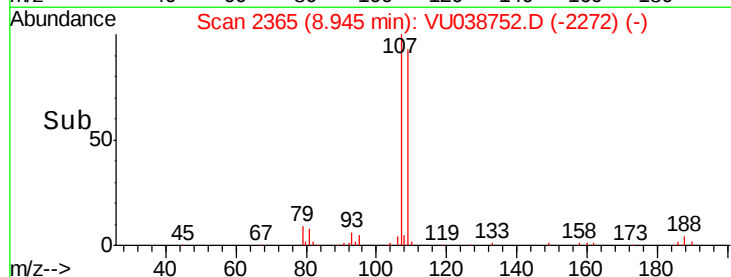
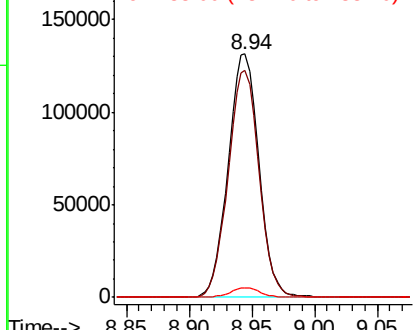
#50
1,2-Dibromoethane
Concen: 52.617 ug/L
RT: 8.94 min Scan# 2365
Delta R.T. 0.00 min
Lab File: VU038752.D
Acq: 10 Jun 2020 02:30

Instrument :
MSVOA_U
ClientSampleId :
VSTD05047

Tot Ion	Ratio	Lower	Upper
107	100		
109	93.4	65.9	122.5
188	3.9	2.9	4.3

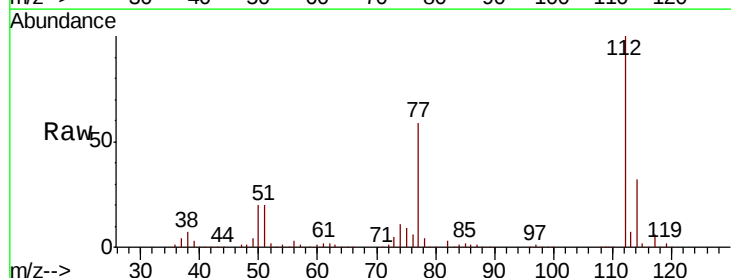


Abundance Ion 107.00 (106.70 to 107.70): V
Ion 109.00 (108.70 to 109.70): V
Ion 188.00 (187.70 to 188.70): V

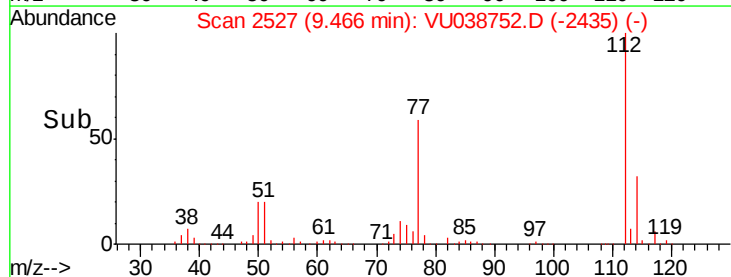
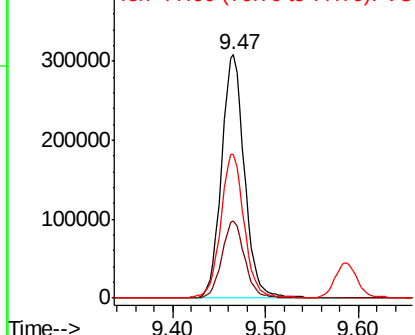


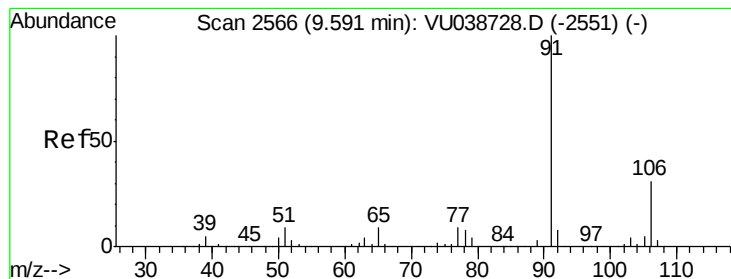
#51
Chlorobenzene
Concen: 49.777 ug/L
RT: 9.47 min Scan# 2527
Delta R.T. -0.00 min
Lab File: VU038752.D
Acq: 10 Jun 2020 02:30

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.8	22.2	41.2
77	58.9	47.9	71.9



Abundance Ion 112.00 (111.70 to 112.70): V
Ion 114.00 (113.70 to 114.70): V
Ion 77.00 (76.70 to 77.70): V





#52

Ethylbenzene

Concen: 48.410 ug/L

RT: 9.59 min Scan# 2565

Delta R.T. -0.00 min

Lab File: VU038752.D

Acq: 10 Jun 2020 02:30

Instrument :

MSVOA_U

ClientSampleId :

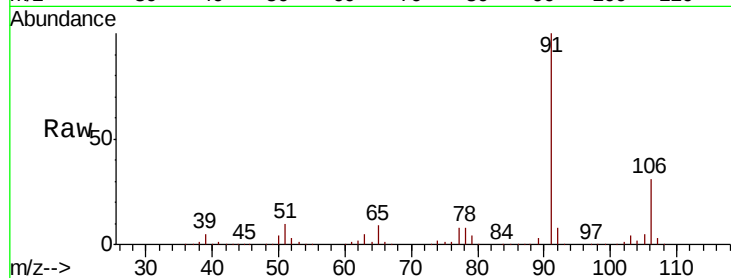
VSTD05047

Tot Ion: 91 Resp: 881601

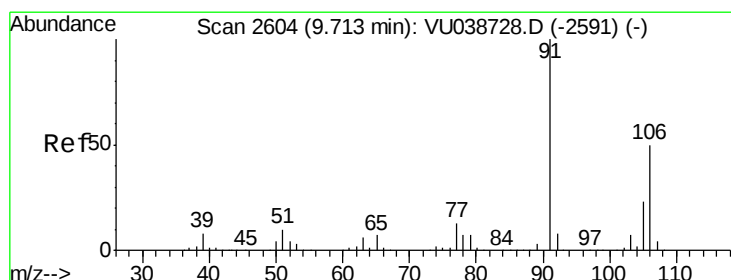
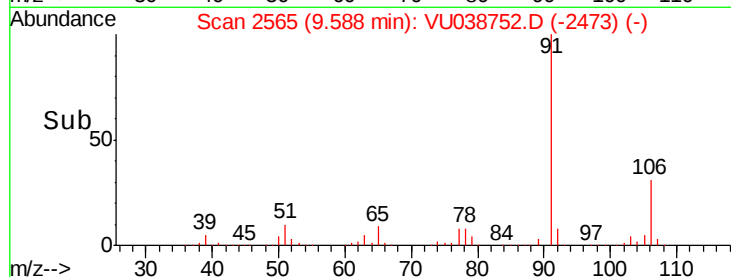
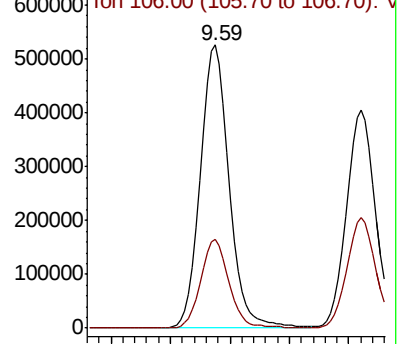
Ion Ratio Lower Upper

91 100

106 31.3 21.5 39.9



Abundance Ion 91.00 (90.70 to 91.70): VU038728.D (-2551) (-)



#53

m,p-Xylene

Concen: 49.889 ug/L

RT: 9.71 min Scan# 2603

Delta R.T. -0.00 min

Lab File: VU038752.D

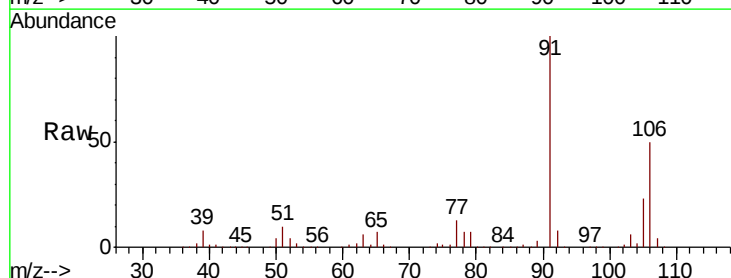
Acq: 10 Jun 2020 02:30

Tgt Ion: 106 Resp: 348751

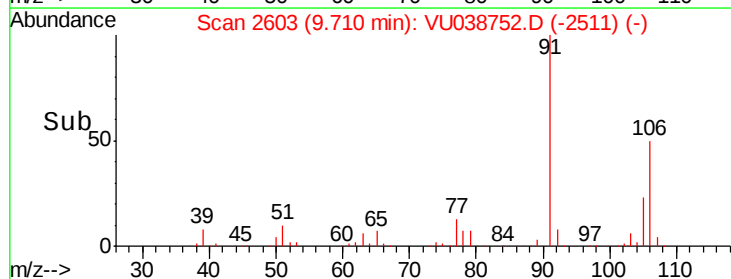
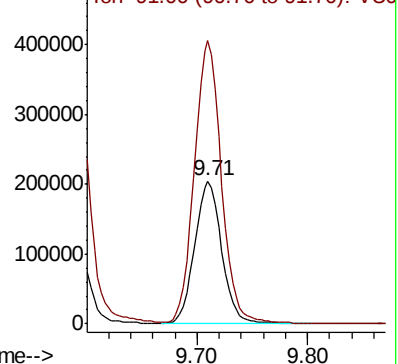
Ion Ratio Lower Upper

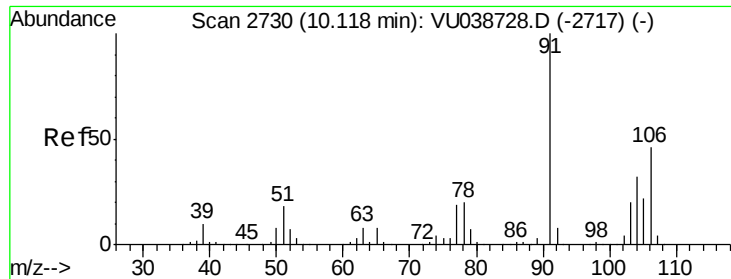
106 100

91 198.2 140.1 260.3



Abundance Ion 106.00 (105.70 to 106.70): VU038728.D (-2591) (-)





#54

o-xylene

Concen: 50.618 ug/L

RT: 10.12 min Scan# 2729

Delta R.T. -0.00 min

Lab File: VU038752.D

Acq: 10 Jun 2020 02:30

Instrument :

MSVOA_U

ClientSampleId :

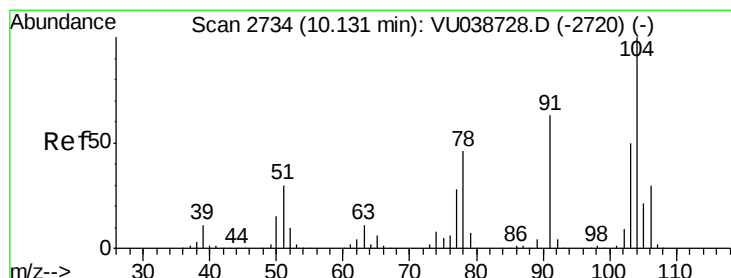
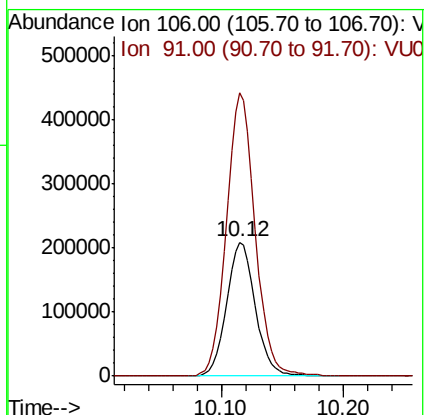
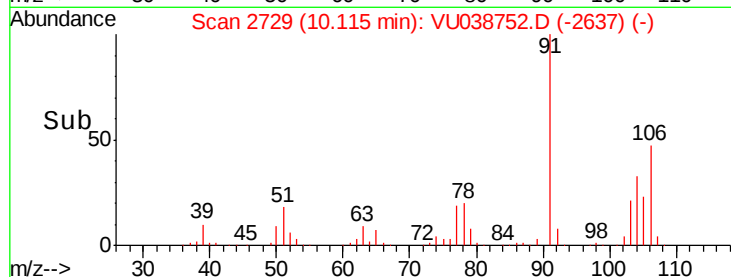
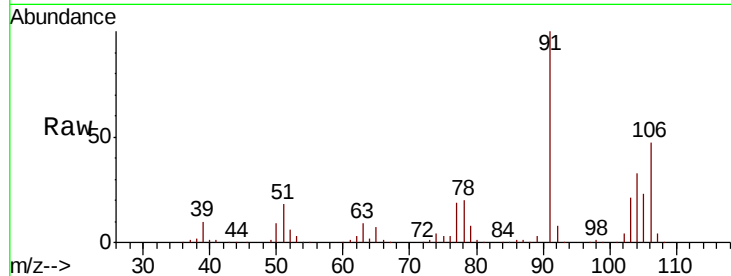
VSTD05047

Tot Ion:106 Resp: 343512

Ion Ratio Lower Upper

106 100

91 211.4 151.2 280.8



#55

Styrene

Concen: 50.557 ug/L

RT: 10.13 min Scan# 2734

Delta R.T. 0.00 min

Lab File: VU038752.D

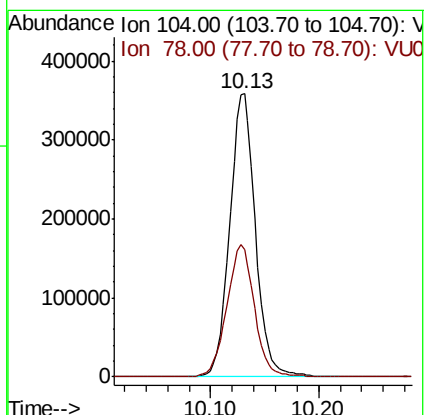
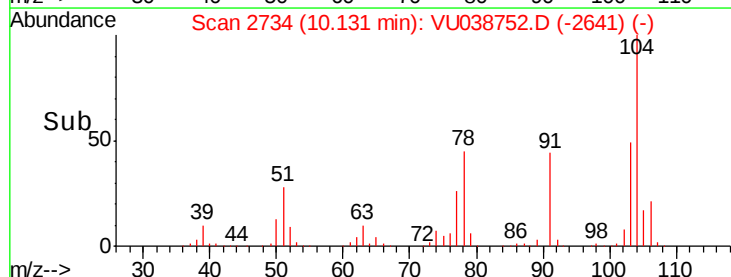
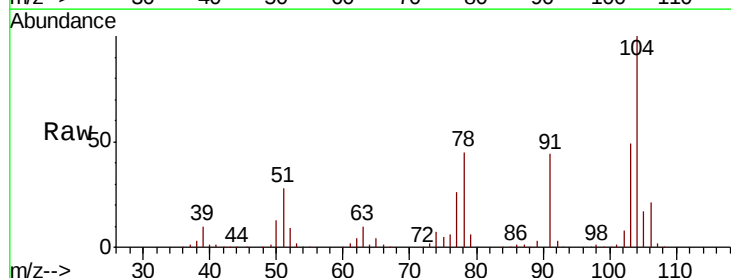
Acq: 10 Jun 2020 02:30

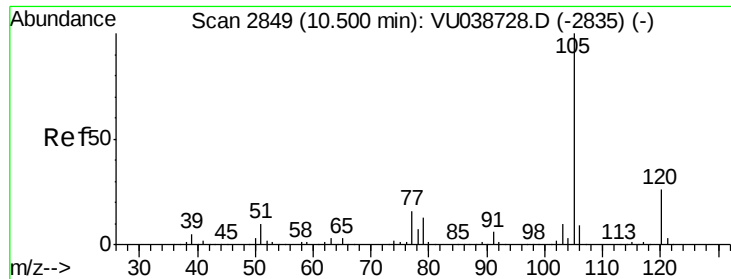
Tgt Ion:104 Resp: 594776

Ion Ratio Lower Upper

104 100

78 44.8 31.6 58.6





#56

Isopropylbenzene

Concen: 47.141 ug/L

RT: 10.50 min Scan# 2848

Delta R.T. -0.00 min

Lab File: VU038752.D

Acq: 10 Jun 2020 02:30

Instrument :

MSVOA_U

ClientSampleId :

VSTD05047

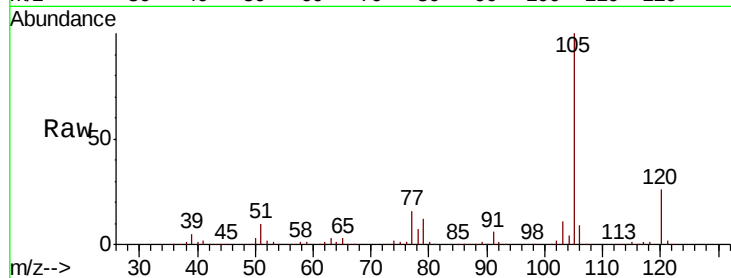
Tot Ion:105 Resp: 834947

Ion Ratio Lower Upper

105 100

120 25.5 20.9 31.3

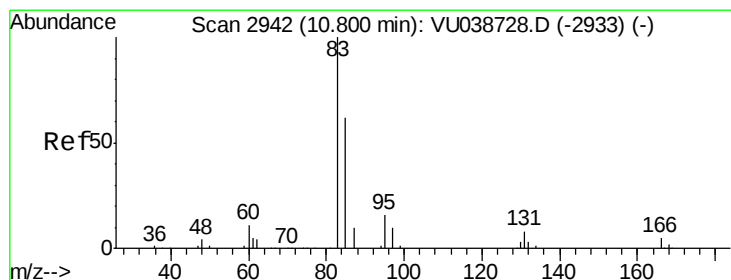
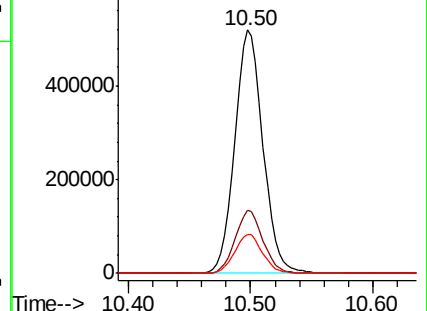
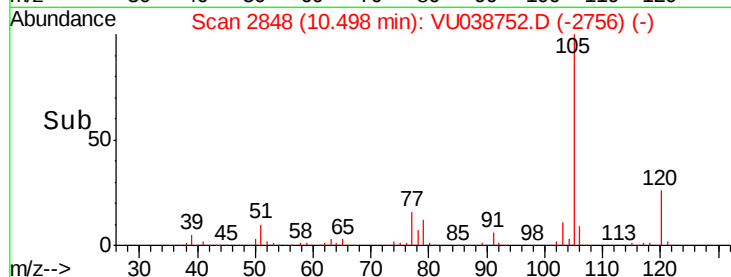
77 15.9 12.6 19.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 51.885 ug/L

RT: 10.80 min Scan# 2941

Delta R.T. -0.00 min

Lab File: VU038752.D

Acq: 10 Jun 2020 02:30

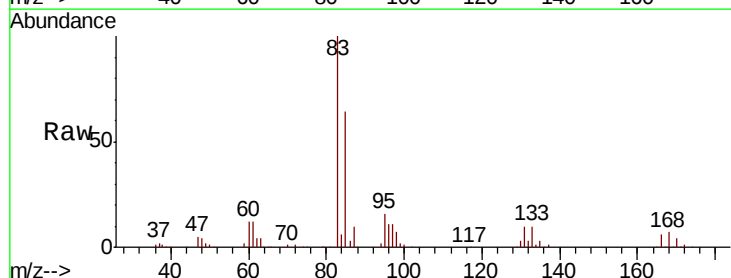
Tgt Ion: 83 Resp: 349507

Ion Ratio Lower Upper

83 100

85 63.6 45.3 84.1

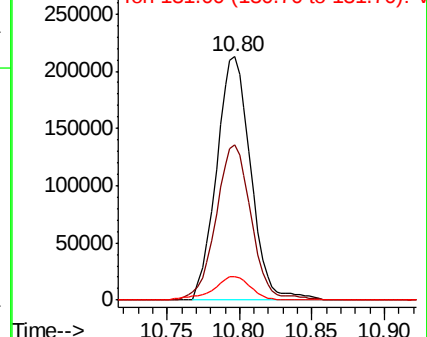
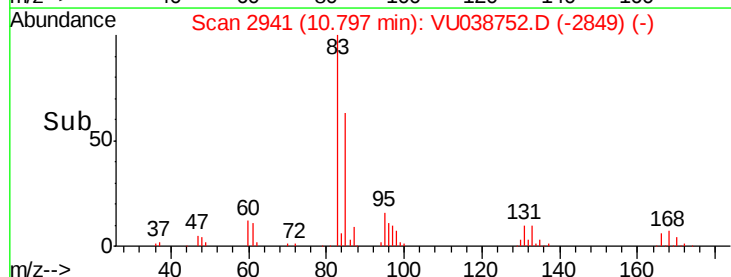
131 9.7 7.2 10.8

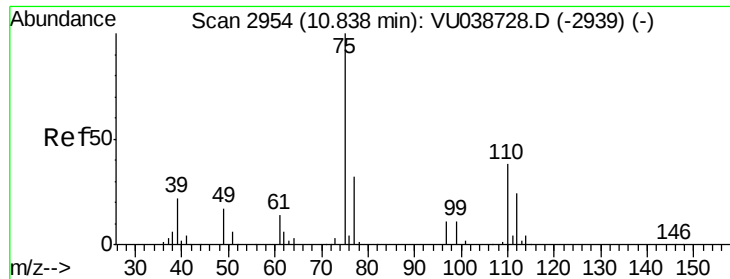


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 52.685 ug/L

RT: 10.84 min Scan# 2953

Delta R.T. -0.00 min

Lab File: VU038752.D

Acq: 10 Jun 2020 02:30

Instrument :

MSVOA_U

ClientSampleId :

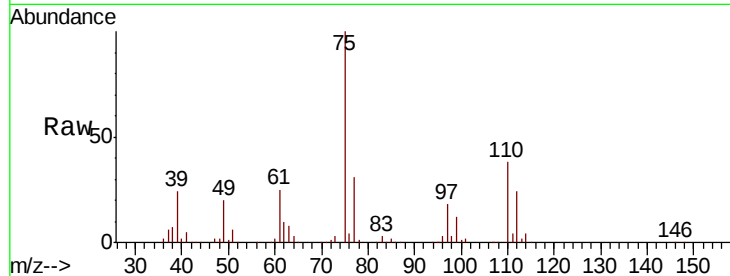
VSTD05047

Tot Ion: 75 Resp: 303785

Ion Ratio Lower Upper

75 100

77 32.0 25.3 37.9



Abundance Ion 75.00 (74.70 to 75.70): VU038728.D (-2939) (-)

Ion 77.00 (76.70 to 77.70): VU038728.D (-2939) (-)

10.84

200000

150000

100000

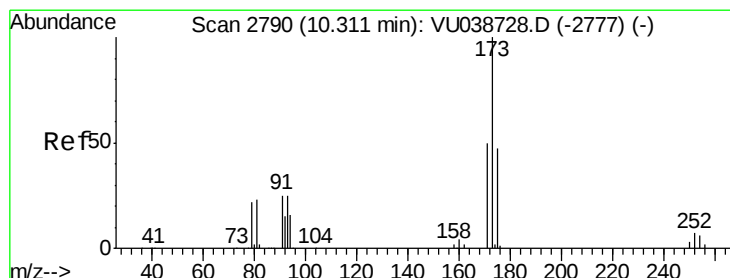
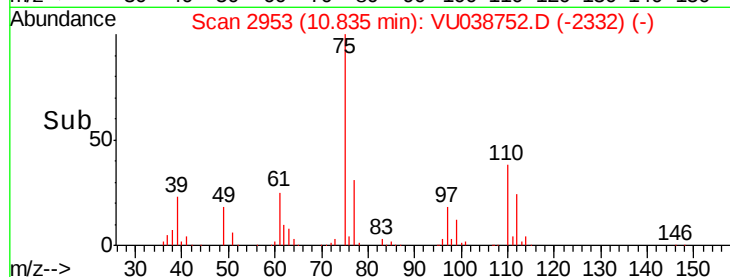
50000

0

10.80

10.90

Time-->



#61

Bromoform

Concen: 54.136 ug/L

RT: 10.30 min Scan# 2788

Delta R.T. -0.01 min

Lab File: VU038752.D

Acq: 10 Jun 2020 02:30

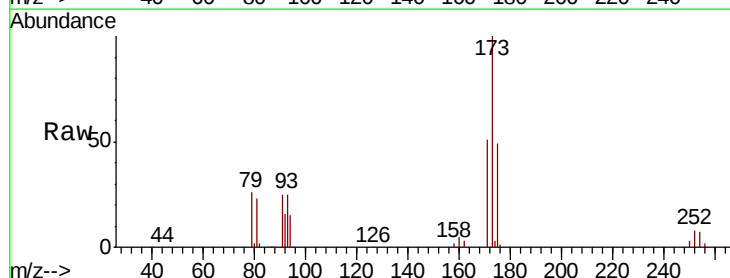
Tgt Ion: 173 Resp: 155638

Ion Ratio Lower Upper

173 100

175 48.1 39.0 58.4

254 7.0 5.8 8.8



Abundance Ion 173.00 (172.70 to 173.70): VU038728.D (-2777) (-)

Ion 175.00 (174.70 to 175.70): VU038728.D (-2777) (-)

Ion 254.00 (253.70 to 254.70): VU038728.D (-2777) (-)

10.30

120000

100000

80000

60000

40000

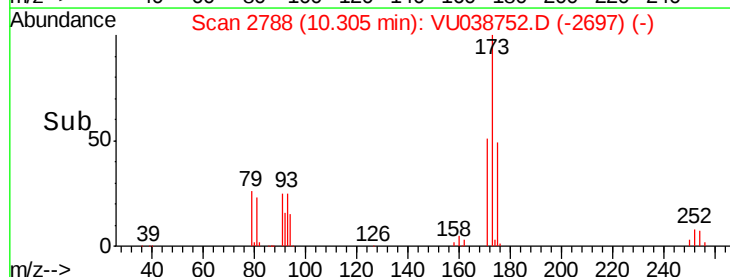
20000

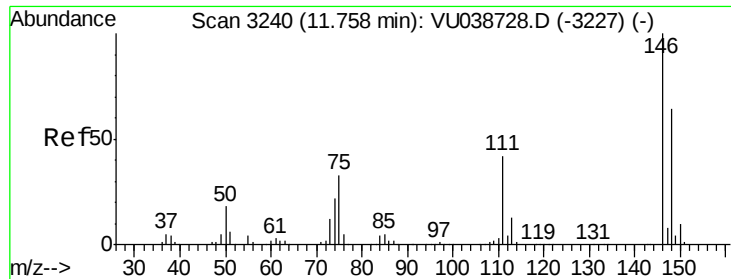
0

10.25

10.35

Time-->

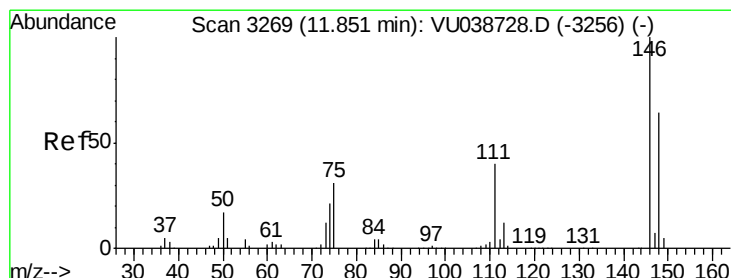
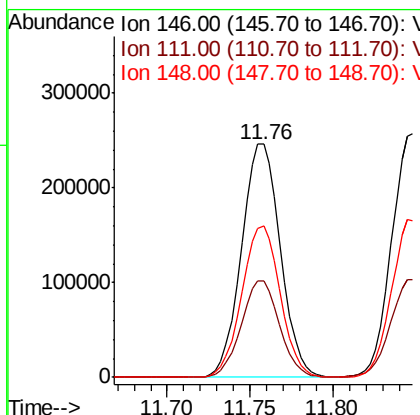
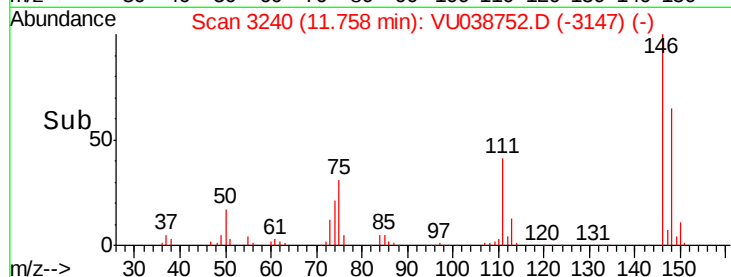
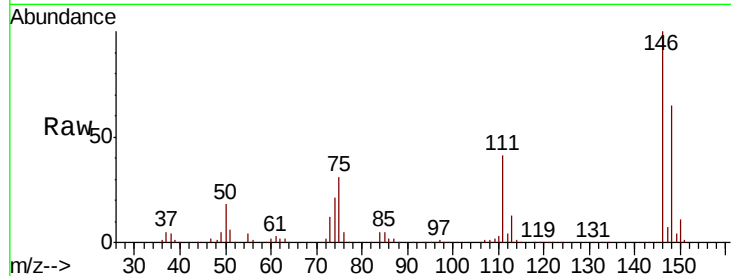




#62
 1,3-Dichlorobenzene
 Concen: 49.576 ug/L
 RT: 11.76 min Scan# 3240
 Delta R.T. 0.00 min
 Lab File: VU038752.D
 Acq: 10 Jun 2020 02:30

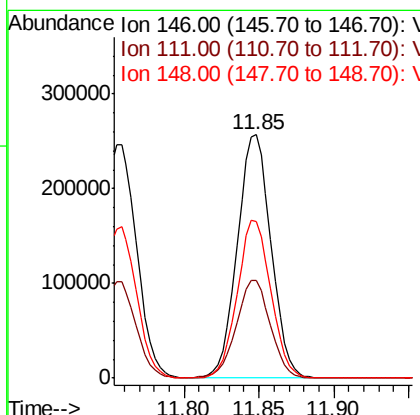
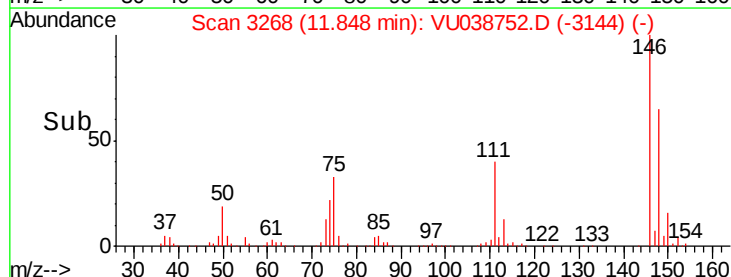
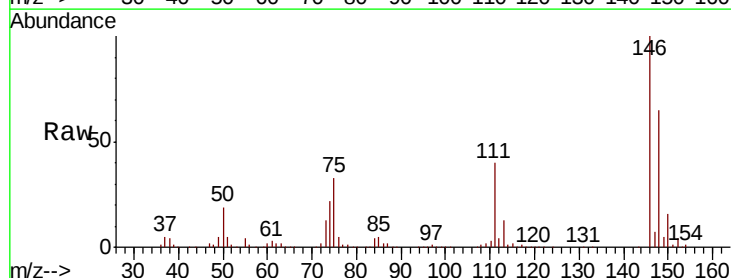
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05047

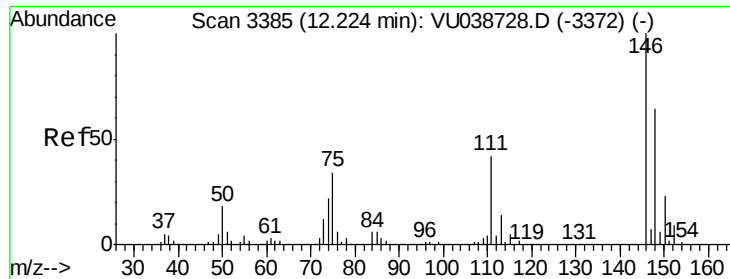
Tot Ion:146 Resp: 401071
 Ion Ratio Lower Upper
 146 100
 111 41.3 29.2 54.2
 148 64.7 45.2 84.0



#63
 1,4-Dichlorobenzene
 Concen: 49.226 ug/L
 RT: 11.85 min Scan# 3268
 Delta R.T. -0.00 min
 Lab File: VU038752.D
 Acq: 10 Jun 2020 02:30

Tgt Ion:146 Resp: 403255
 Ion Ratio Lower Upper
 146 100
 111 40.0 27.6 51.4
 148 64.5 44.3 82.3

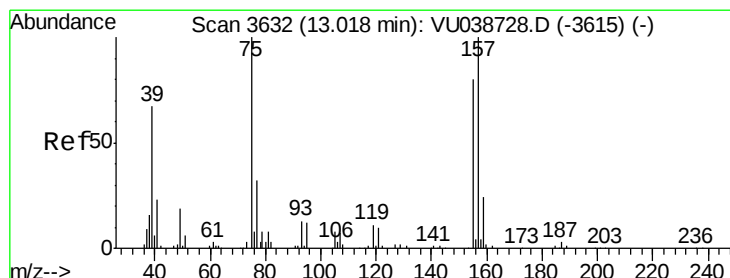
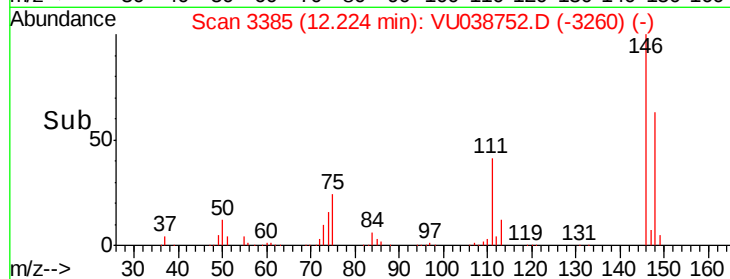
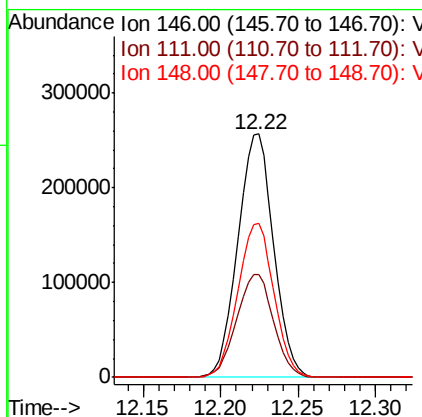
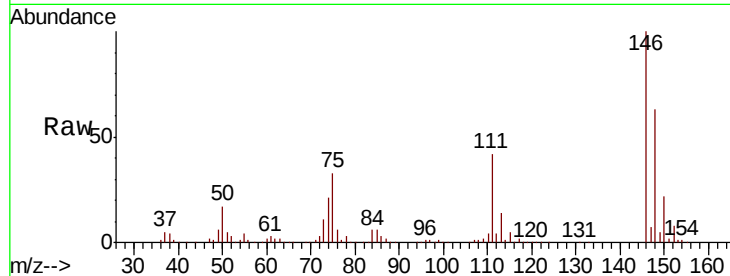




#65
 1,2-Dichlorobenzene
 Concen: 51.151 ug/L
 RT: 12.22 min Scan# 3385
 Delta R.T. 0.00 min
 Lab File: VU038752.D
 Acq: 10 Jun 2020 02:30

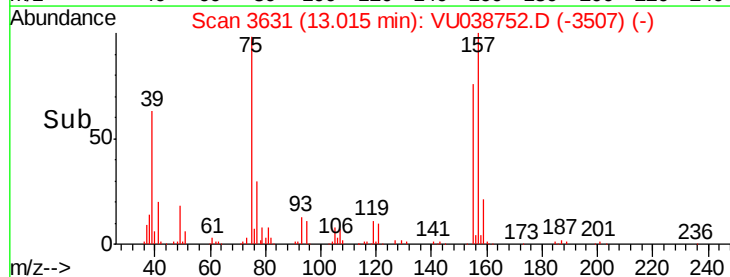
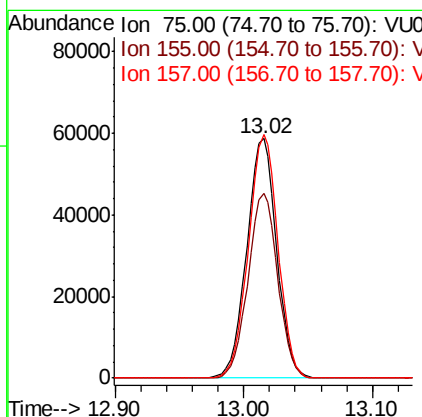
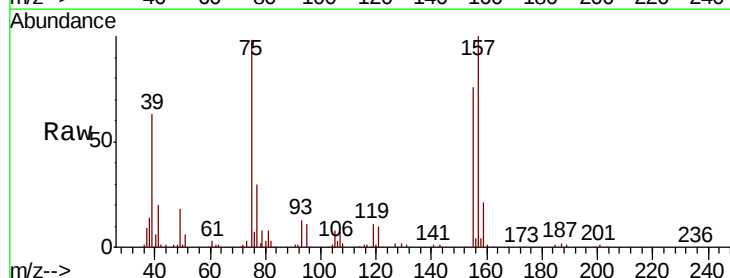
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05047

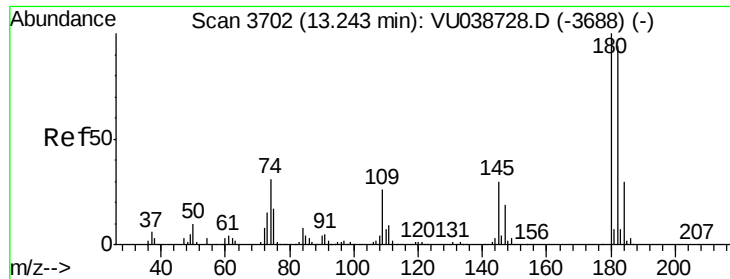
Tot Ion:146 Resp: 411866
 Ion Ratio Lower Upper
 146 100
 111 42.1 34.8 52.2
 148 63.2 50.8 76.2



#66
 1,2-Dibromo-3-chloropropane
 Concen: 56.759 ug/L
 RT: 13.02 min Scan# 3631
 Delta R.T. -0.00 min
 Lab File: VU038752.D
 Acq: 10 Jun 2020 02:30

Tgt Ion: 75 Resp: 94711
 Ion Ratio Lower Upper
 75 100
 155 77.3 63.8 95.6
 157 101.6 80.2 120.2

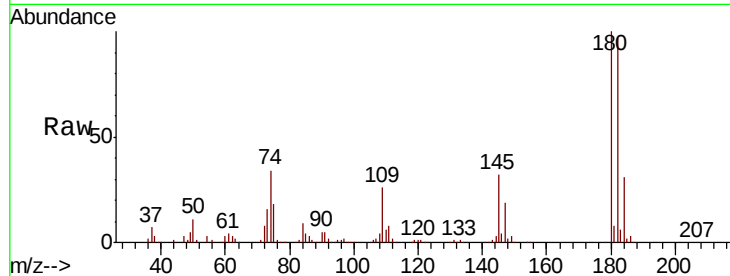




#67
 1,3,5-Trichlorobenzene
 Concen: 48.107 ug/L
 RT: 13.24 min Scan# 3700
 Delta R.T. -0.01 min
 Lab File: VU038752.D
 Acq: 10 Jun 2020 02:30

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05047

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.8	76.6	114.8
184	30.5	24.7	37.1
145	31.0	24.7	37.1



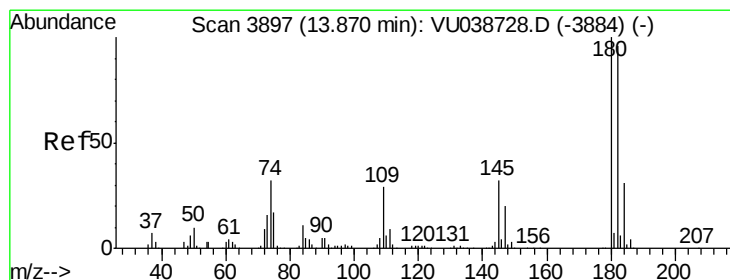
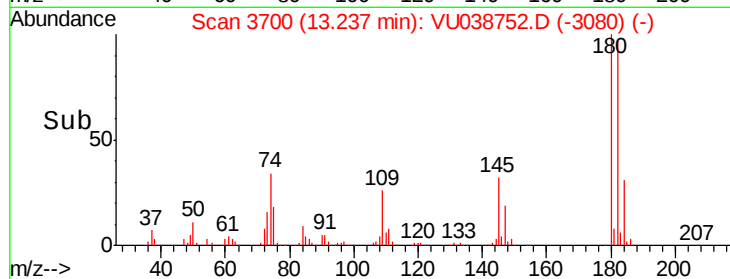
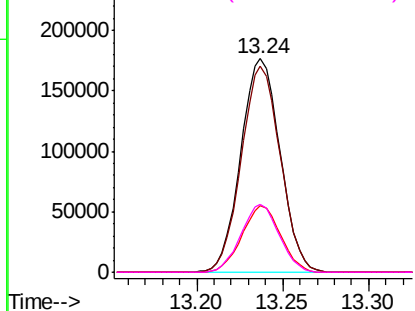
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

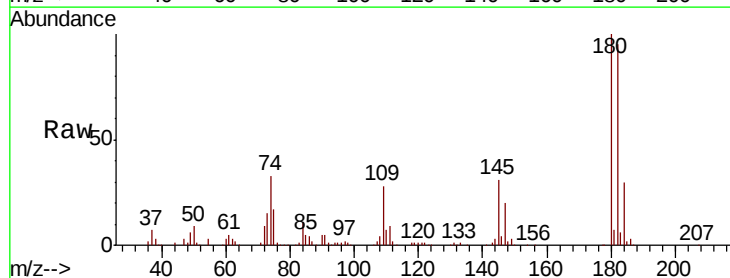
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 49.344 ug/L
 RT: 13.86 min Scan# 3895
 Delta R.T. -0.01 min
 Lab File: VU038752.D
 Acq: 10 Jun 2020 02:30

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.9	76.8	115.2
145	31.1	25.4	38.2

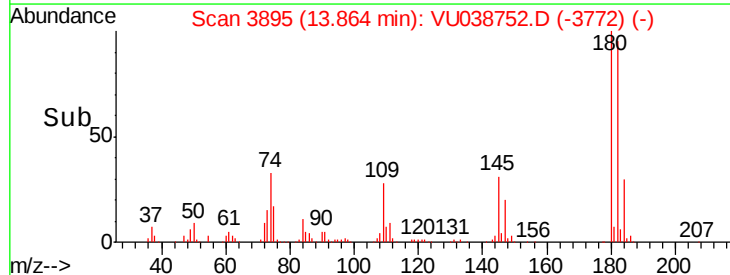
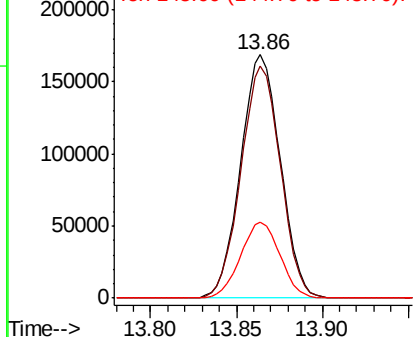


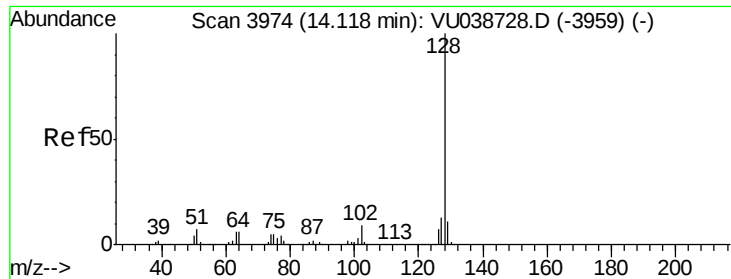
Abundance

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: 55.569 ug/L

RT: 14.11 min Scan# 3972

Delta R.T. -0.01 min

Lab File: VU038752.D

Acq: 10 Jun 2020 02:30

Instrument :

MSVOA_U

ClientSampleId :

VSTD05047

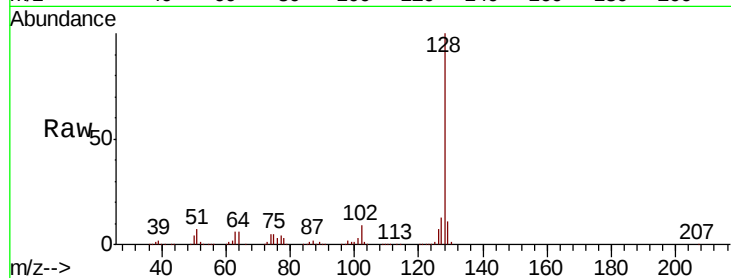
Tot Ion:128 Resp: 1076296

Ion Ratio Lower Upper

128 100

127 13.2 10.6 16.0

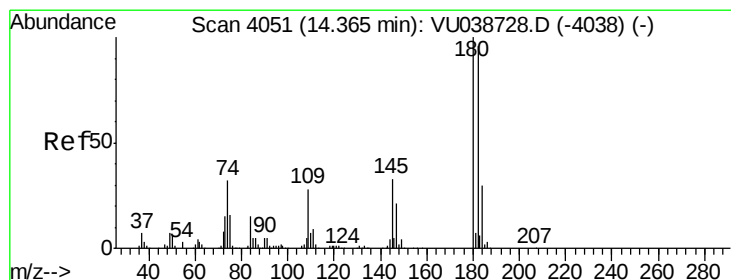
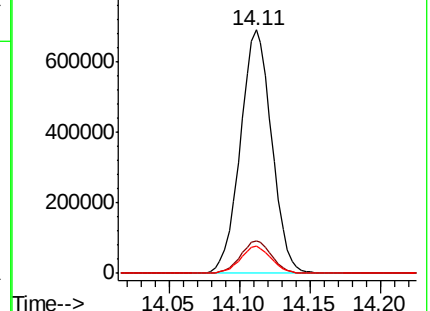
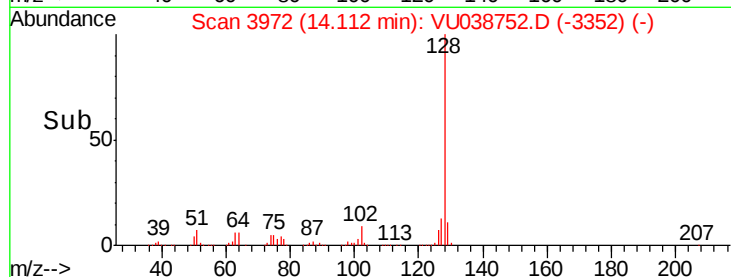
129 10.8 8.6 12.8



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: 52.310 ug/L

RT: 14.36 min Scan# 4048

Delta R.T. -0.01 min

Lab File: VU038752.D

Acq: 10 Jun 2020 02:30

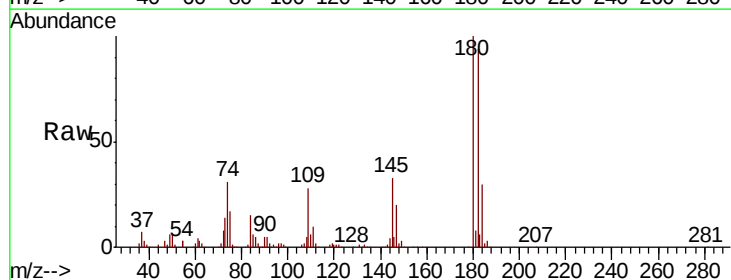
Tgt Ion:180 Resp: 287531

Ion Ratio Lower Upper

180 100

182 95.0 75.9 113.9

145 33.4 26.4 39.6



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

