

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU102120\
 Data File : VU040871.D
 Acq On : 21 Oct 2020 13:54
 Operator : SY/MD
 Sample : VSTDCCC005
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00522

Quant Time: Oct 22 00:40:29 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102120WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu Oct 22 00:32:07 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	266388	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	264836	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	139569	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	91445	5.01	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	100.20%
7) Chloroethane-d5	1.92	69	78574	4.93	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	98.60%
11) 1,1-Dichloroethene-d2	2.58	63	191562	4.93	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	98.60%
20) 2-Butanone-d5	4.65	46	398617	61.47	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	122.94%
24) Chloroform-d	5.08	84	193277	4.82	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	96.40%
26) 1,2-Dichloroethane-d4	5.72	65	116094	5.17	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	103.40%
32) Benzene-d6	5.74	84	349857	5.05	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	101.00%
36) 1,2-Dichloropropane-d6	6.70	67	118788	5.04	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	100.80%
41) Toluene-d8	7.91	98	315692	5.13	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	102.60%
43) trans-1,3-Dichloropropene-	8.19	79	50306	5.33	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	106.60%
46) 2-Hexanone-d5	8.64	63	314780	66.37	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	132.74%#
57) 1,1,2,2-Tetrachloroethane-	10.75	84	113184	5.64	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	112.80%
64) 1,2-Dichlorobenzene-d4	12.19	152	123532	5.04	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	100.80%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.39	85	133699	4.944	ug/L	99
3) Chloromethane	1.53	50	141876	4.833	ug/L	98
5) Vinyl chloride	1.61	62	134544	4.929	ug/L	98
6) Bromomethane	1.87	94	74160	5.392	ug/L	98
8) Chloroethane	1.94	64	83728	4.745	ug/L	100
9) Trichlorofluoromethane	2.15	101	181041	5.028	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.59	101	107093	5.117	ug/L	96
12) 1,1-Dichloroethene	2.59	96	99691	5.109	ug/L	97
13) Acetone	2.66	43	261714	57.430	ug/L	98
14) Carbon disulfide	2.81	76	342330	4.932	ug/L	97
15) Methyl Acetate	2.97	43	64152	5.566	ug/L	99
16) Methylene chloride	3.06	84	114940	4.790	ug/L	98
17) Methyl tert-butyl Ether	3.38	73	266205	5.605	ug/L	99
18) trans-1,2-Dichloroethene	3.37	96	105394	5.209	ug/L	97
19) 1,1-Dichloroethane	3.89	63	205956	5.059	ug/L	100
21) 2-Butanone	4.73	43	432485	62.966	ug/L	99
22) cis-1,2-Dichloroethene	4.68	96	108856	4.899	ug/L	99

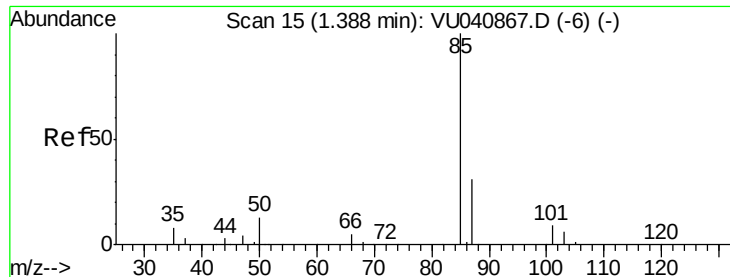
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU102120\
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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102120WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu Oct 22 00:32:07 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.99	128	52020	5.238	ug/L	99
25) Chloroform	5.11	83	207600	4.998	ug/L	98
27) 1,2-Dichloroethane	5.81	62	151355	5.336	ug/L	99
29) 1,1,1-Trichloroethane	5.33	97	172337	5.006	ug/L	98
30) Cyclohexane	5.40	56	183615	5.347	ug/L	99
31) Carbon tetrachloride	5.54	117	152107	5.026	ug/L	99
33) Benzene	5.79	78	431686	5.071	ug/L	100
34) Trichloroethene	6.55	95	109928	5.073	ug/L	97
35) Methylcyclohexane	6.77	83	174861	5.392	ug/L	100
37) 1,2-Dichloropropane	6.80	63	118097	5.138	ug/L	100
38) Bromodichloromethane	7.11	83	146837	5.031	ug/L	96
39) cis-1,3-Dichloropropene	7.61	75	163966	5.334	ug/L	99
40) 4-Methyl-2-pentanone	7.80	43	985077	63.865	ug/L	100
42) Toluene	7.97	91	455007	5.321	ug/L	100
44) trans-1,3-Dichloropropene	8.21	75	153039	5.499	ug/L	100
45) 1,1,2-Trichloroethane	8.40	97	86131	5.499	ug/L	98
47) Tetrachloroethene	8.56	164	80450	4.989	ug/L	97
48) 2-Hexanone	8.69	43	747219	66.593	ug/L	99
49) Dibromochloromethane	8.81	129	98917	5.293	ug/L	97
50) 1,2-Dibromoethane	8.93	107	83939	5.738	ug/L	99
51) Chlorobenzene	9.45	112	280504	5.080	ug/L	99
52) Ethylbenzene	9.57	91	482856	5.252	ug/L	98
53) m,p-Xylene	9.69	106	176087	5.317	ug/L	98
54) o-Xylene	10.10	106	168852	5.362	ug/L	96
55) Styrene	10.11	104	302192	5.516	ug/L	99
56) Isopropylbenzene	10.48	105	455159	5.400	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.78	83	119625	5.997	ug/L	98
59) 1,2,3-Trichloropropane	10.82	75	88242	5.907	ug/L	95
61) Bromoform	10.29	173	54931	5.368	ug/L	98
62) 1,3-Dichlorobenzene	11.74	146	224966	5.087	ug/L	99
63) 1,4-Dichlorobenzene	11.83	146	233806	5.144	ug/L	100
65) 1,2-Dichlorobenzene	12.21	146	219378	5.286	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.99	75	22628	5.859	ug/L	96
67) 1,3,5-Trichlorobenzene	13.21	180	165865	5.110	ug/L	99
68) 1,2,4-trichlorobenzene	13.83	180	144703	5.288	ug/L	99
69) Naphthalene	14.08	128	286666	5.692	ug/L	100
70) 1,2,3-Trichlorobenzene	14.32	180	139557	5.259	ug/L	100

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



#2

Dichlorodifluoromethane

Concen: 4.944 ug/L

RT: 1.39 min Scan# 15

Delta R.T. 0.00 min

Lab File: VU040871.D

Acq: 21 Oct 2020 13:54

Instrument :

MSVOA_U

ClientSampleId :

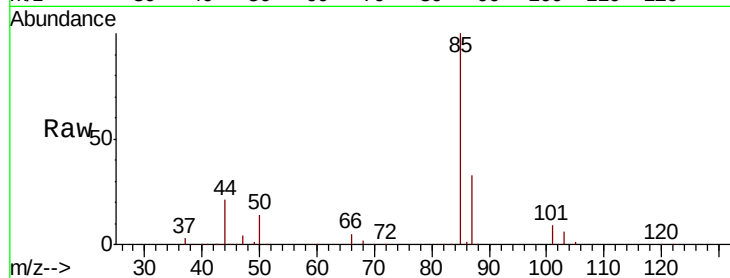
VSTD00522

Tot Ion: 85 Resp: 133699

Ion Ratio Lower Upper

85 100

87 32.0 25.0 37.6



Abundance Ion 85.00 (84.70 to 85.70): VU040871.D (-6) (-)

Ion 87.00 (86.70 to 87.70): VU040871.D (-6) (-)

1.39

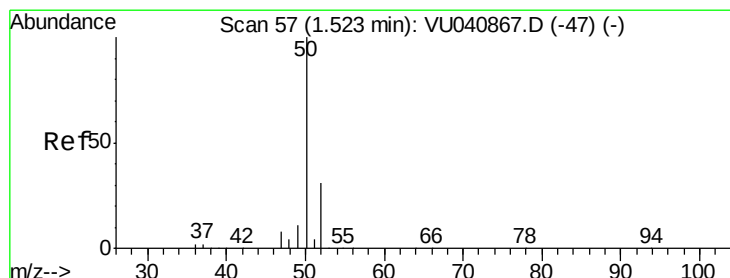
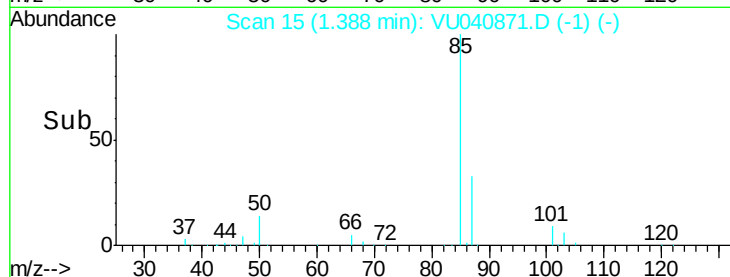
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 4.833 ug/L

RT: 1.53 min Scan# 58

Delta R.T. 0.00 min

Lab File: VU040871.D

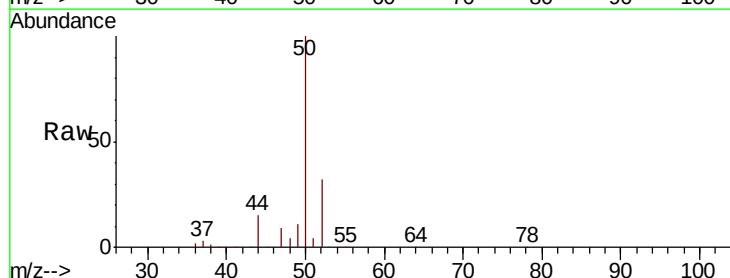
Acq: 21 Oct 2020 13:54

Tgt Ion: 50 Resp: 141876

Ion Ratio Lower Upper

50 100

52 32.2 21.8 40.6



Abundance Ion 50.05 (49.75 to 50.75): VU040871.D (-47) (-)

Ion 52.05 (51.75 to 52.75): VU040871.D (-47) (-)

1.53

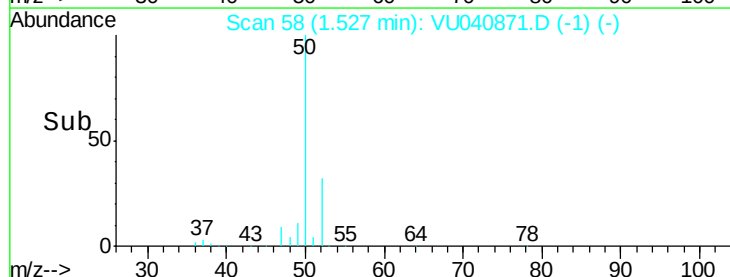
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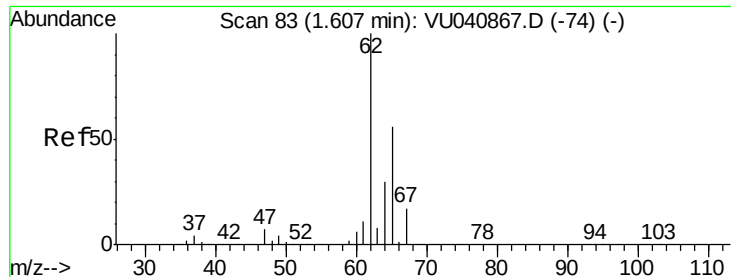
100000

50000

0

Time-->





#5

Vinyl chloride

Concen: 4.929 ug/L

RT: 1.61 min Scan# 84

Delta R.T. 0.00 min

Lab File: VU040871.D

Acq: 21 Oct 2020 13:54

Instrument :

MSVOA_U

ClientSampleId :

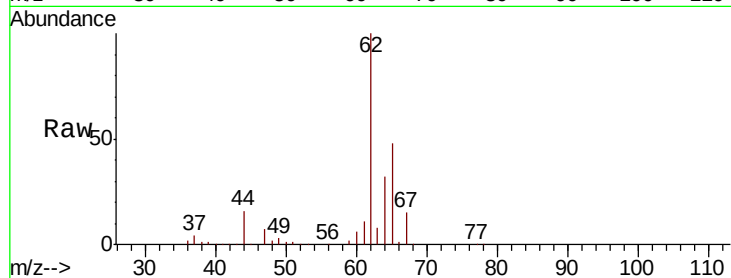
VSTD00522

Tot Ion: 62 Resp: 134544

Ion Ratio Lower Upper

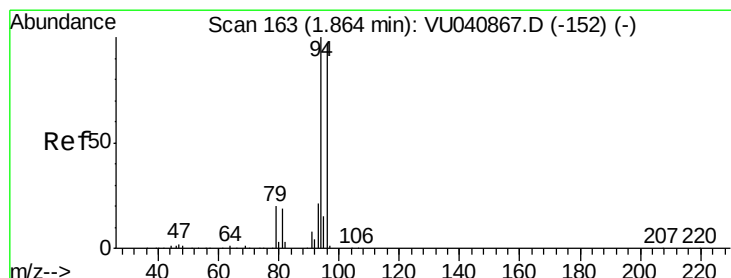
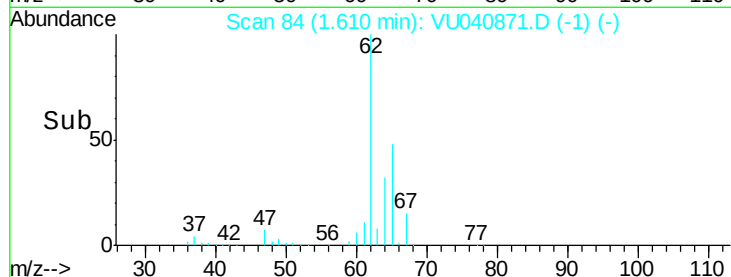
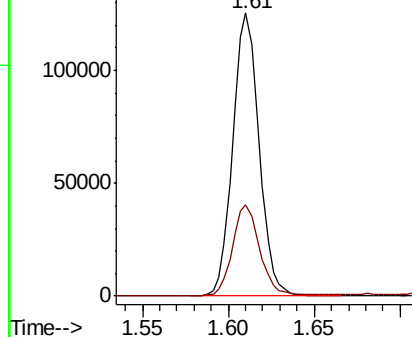
62 100

64 32.5 21.8 40.6



Abundance Ion 62.00 (61.70 to 62.70): VU040871.D (-1) (-)

Ion 64.10 (63.80 to 64.80): VU040871.D (-1) (-)



#6

Bromomethane

Concen: 5.392 ug/L

RT: 1.87 min Scan# 164

Delta R.T. 0.00 min

Lab File: VU040871.D

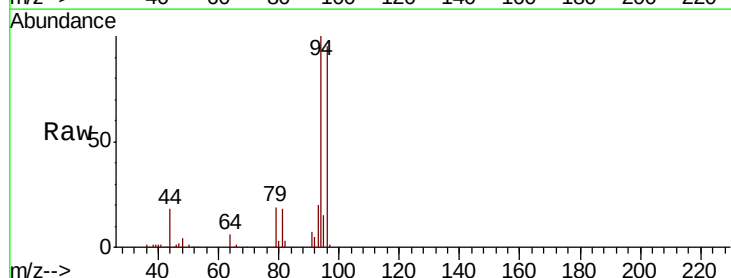
Acq: 21 Oct 2020 13:54

Tgt Ion: 94 Resp: 74160

Ion Ratio Lower Upper

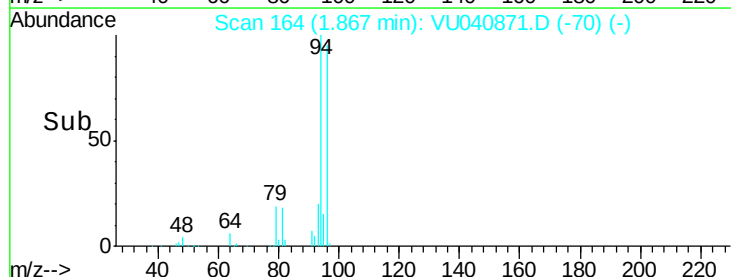
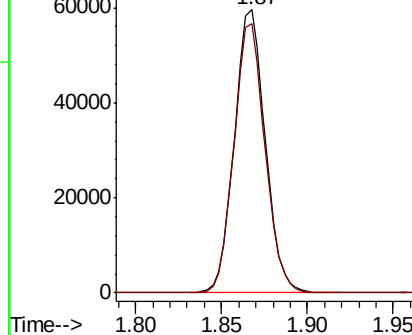
94 100

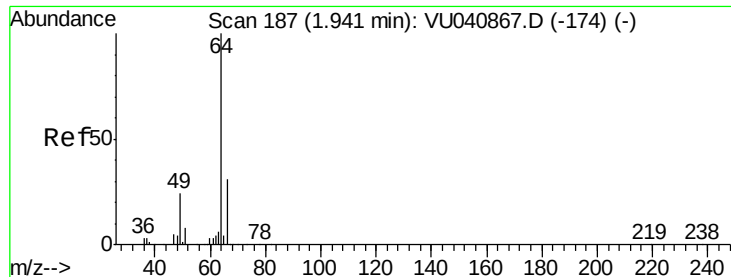
96 95.2 67.8 125.8



Abundance Ion 94.00 (93.70 to 94.70): VU040871.D (-70) (-)

Ion 96.00 (95.70 to 96.70): VU040871.D (-70) (-)

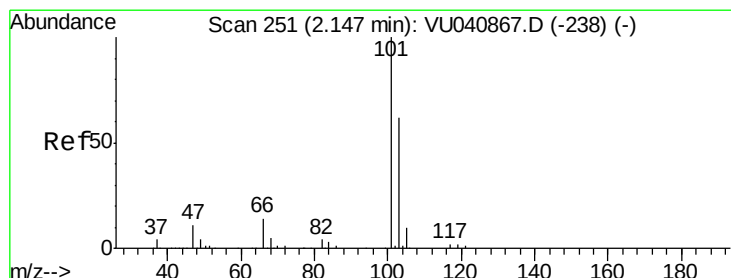
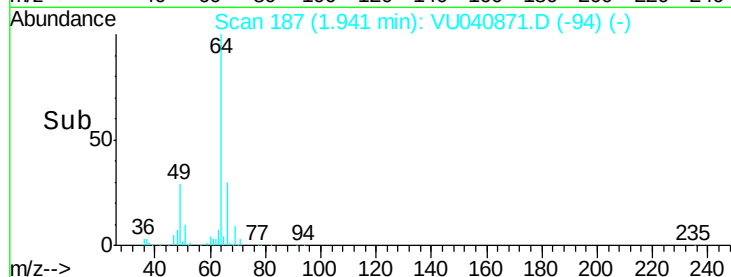
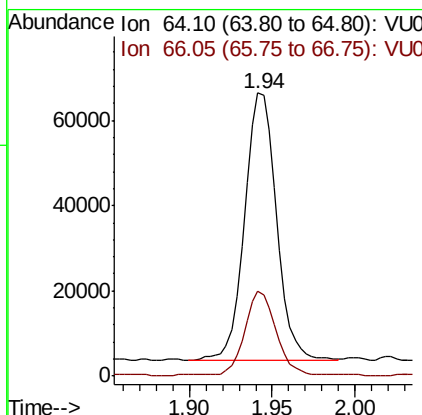
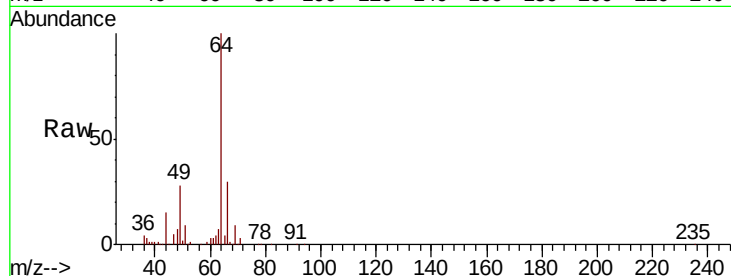




#8
Chloroethane
Concen: 4.745 ug/L
RT: 1.94 min Scan# 187
Delta R.T. 0.00 min
Lab File: VU040871.D
Acq: 21 Oct 2020 13:54

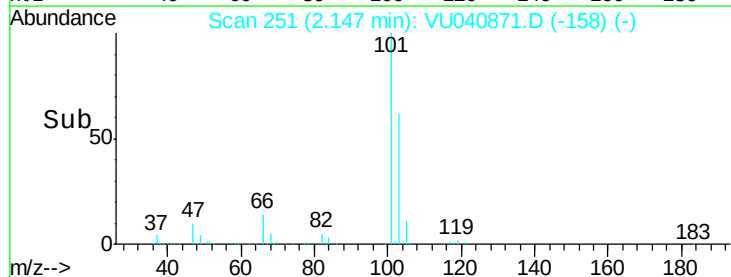
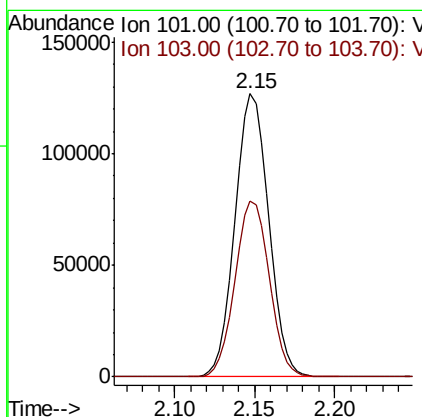
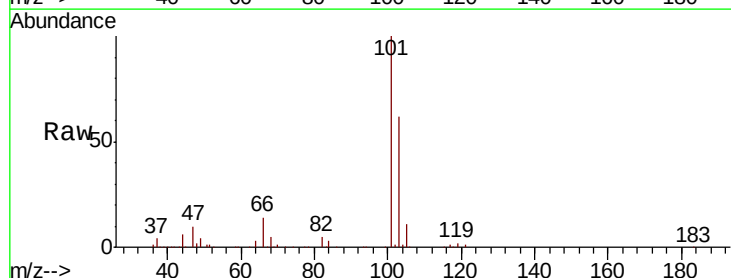
Instrument :
MSVOA_U
ClientSampleId :
VSTD00522

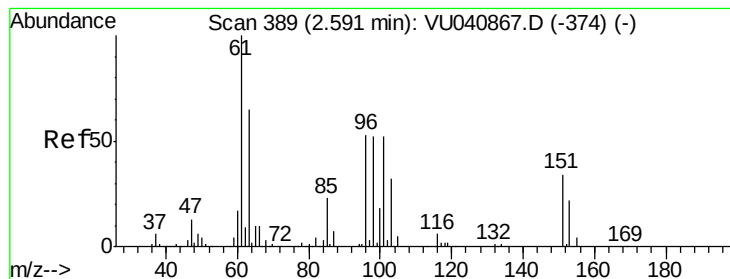
Tot Ion: 64 Resp: 83728
Ion Ratio Lower Upper
64 100
66 30.1 21.2 39.4



#9
Trichlorofluoromethane
Concen: 5.028 ug/L
RT: 2.15 min Scan# 251
Delta R.T. 0.00 min
Lab File: VU040871.D
Acq: 21 Oct 2020 13:54

Tgt Ion: 101 Resp: 181041
Ion Ratio Lower Upper
101 100
103 63.3 51.4 77.2





#10

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

Concen: 5.117 ug/L

RT: 2.59 min Scan# 390

Delta R.T. 0.00 min

Lab File: VU040871.D

Acq: 21 Oct 2020 13:54

Instrument :

MSVOA_U

ClientSampleId :

VSTD00522

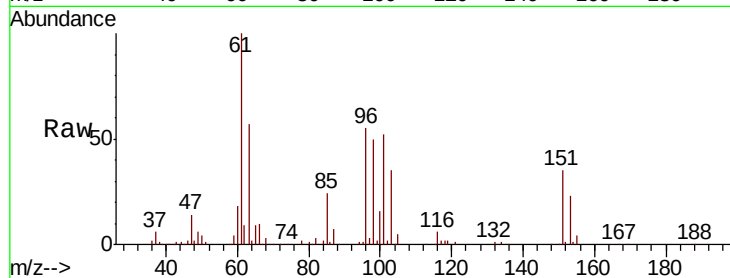
Tot Ion:101 Resp: 107093

Ion Ratio Lower Upper

101 100

85 43.6 36.4 54.6

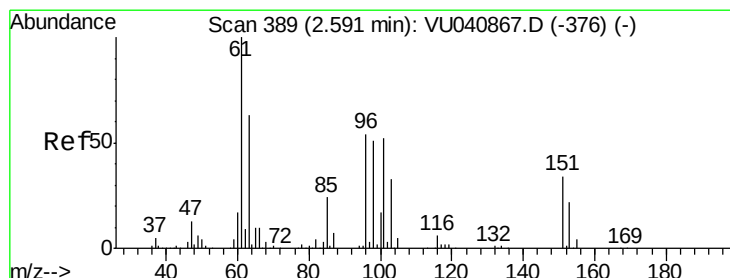
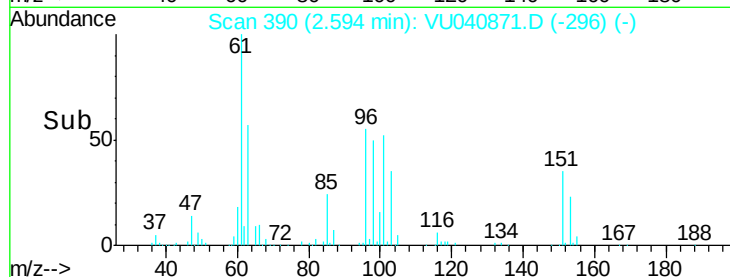
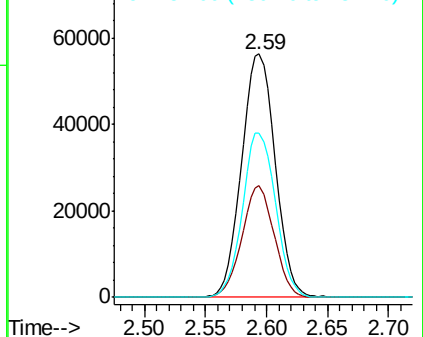
151 66.2 56.3 84.5



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: 5.109 ug/L

RT: 2.59 min Scan# 389

Delta R.T. 0.00 min

Lab File: VU040871.D

Acq: 21 Oct 2020 13:54

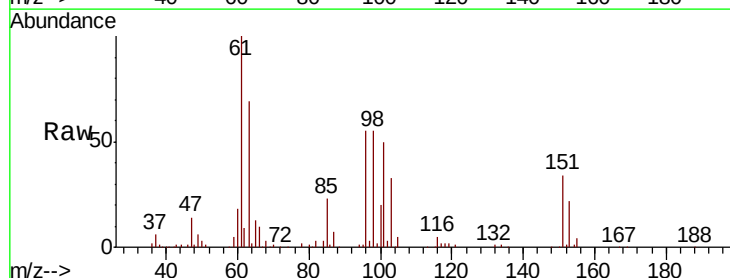
Tgt Ion: 96 Resp: 99691

Ion Ratio Lower Upper

96 100

61 182.5 130.9 243.1

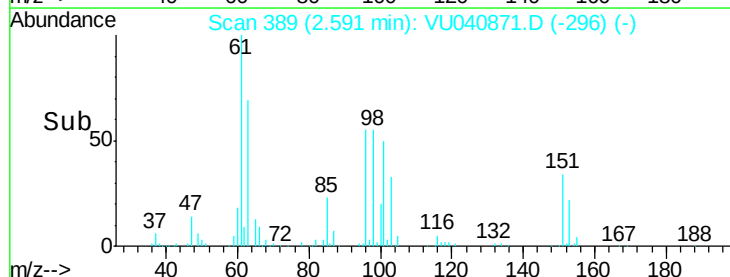
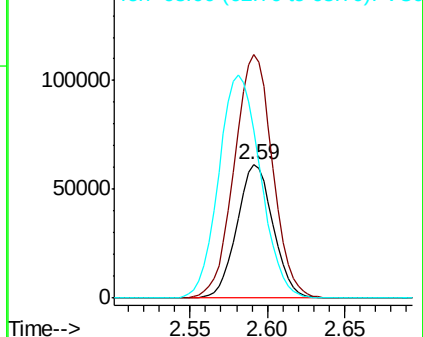
63 126.0 85.4 158.6

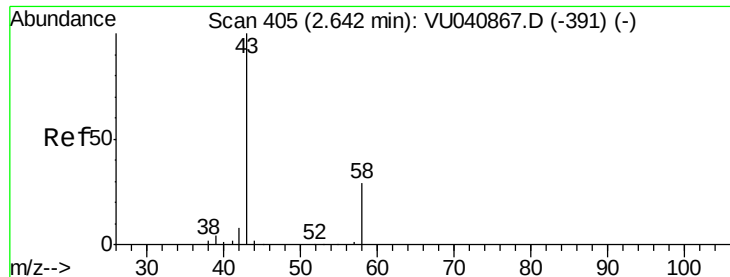


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 57.430 ug/L

RT: 2.66 min Scan# 409

Delta R.T. 0.01 min

Lab File: VU040871.D

Acq: 21 Oct 2020 13:54

Instrument :

MSVOA_U

ClientSampleId :

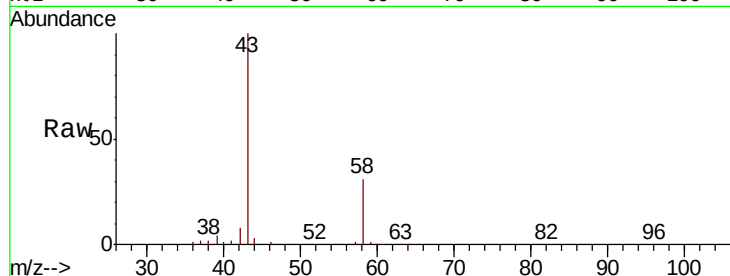
VSTD00522

Tot Ion: 43 Resp: 261714

Ion Ratio Lower Upper

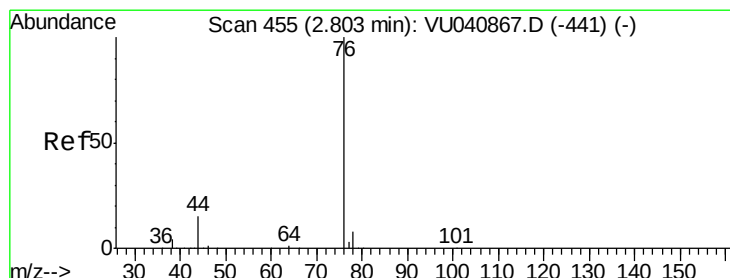
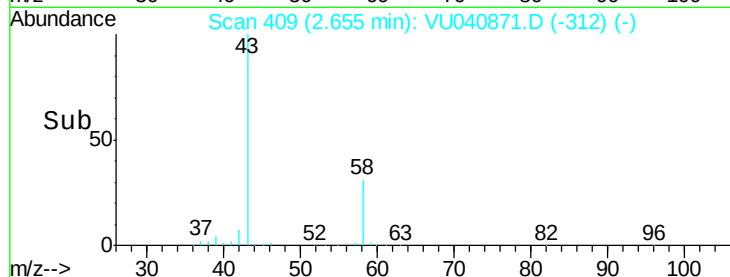
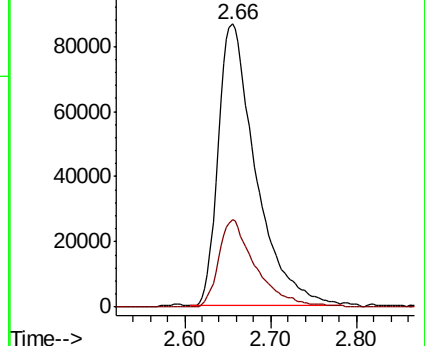
43 100

58 30.4 0.0 58.6



Abundance Ion 43.05 (42.75 to 43.75): VU040871.D (-391) (-)

Ion 58.05 (57.75 to 58.75): VU040871.D (-391) (-)



#14

Carbon disulfide

Concen: 4.932 ug/L

RT: 2.81 min Scan# 456

Delta R.T. 0.00 min

Lab File: VU040871.D

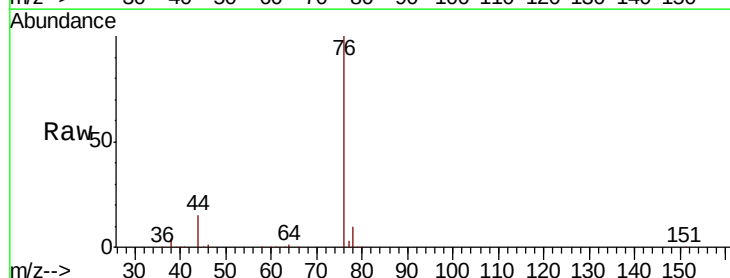
Acq: 21 Oct 2020 13:54

Tgt Ion: 76 Resp: 342330

Ion Ratio Lower Upper

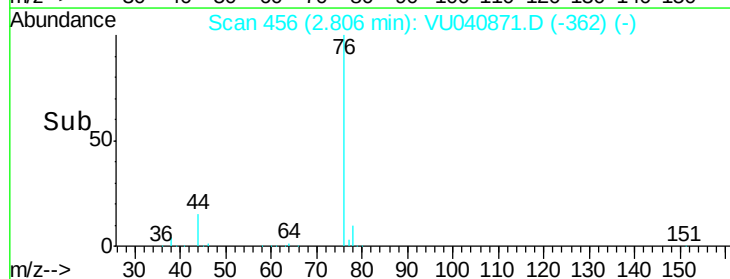
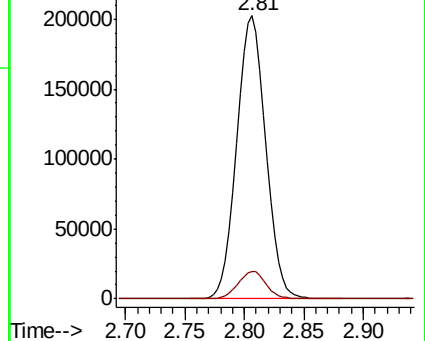
76 100

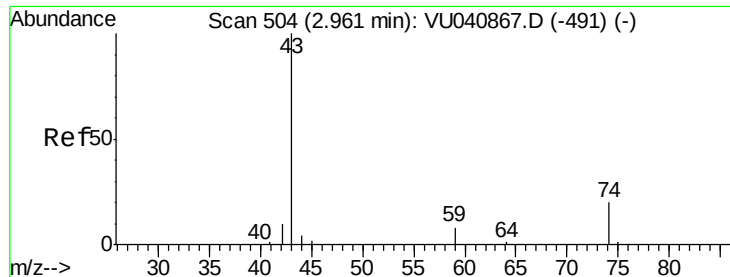
78 9.7 6.8 10.2



Abundance Ion 76.05 (75.75 to 76.75): VU040871.D (-362) (-)

Ion 78.00 (77.70 to 78.70): VU040871.D (-362) (-)

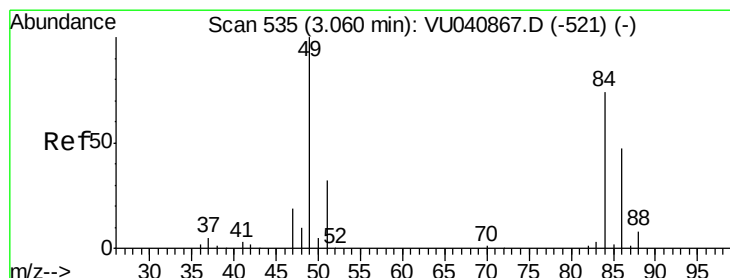
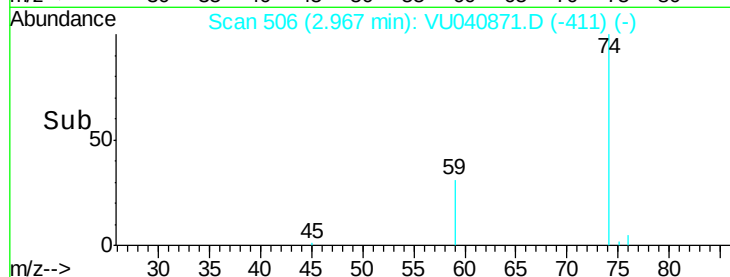
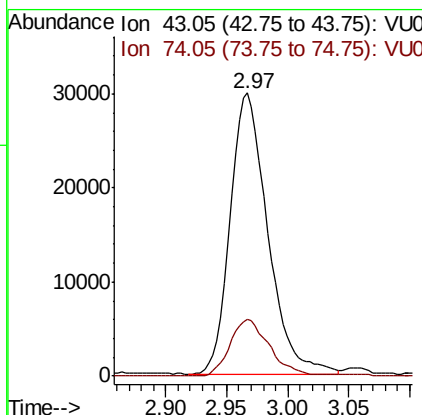
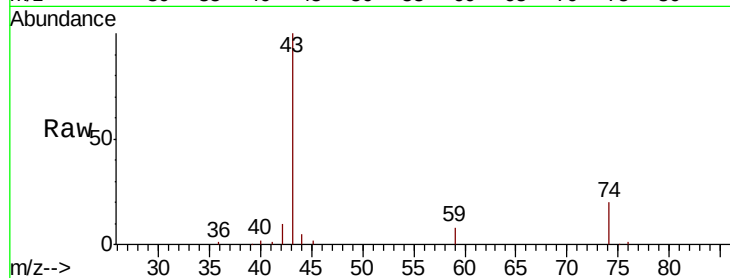




#15
Methvl Acetate
Concen: 5.566 ug/L
RT: 2.97 min Scan# 506
Delta R.T. 0.01 min
Lab File: VU040871.D
Acq: 21 Oct 2020 13:54

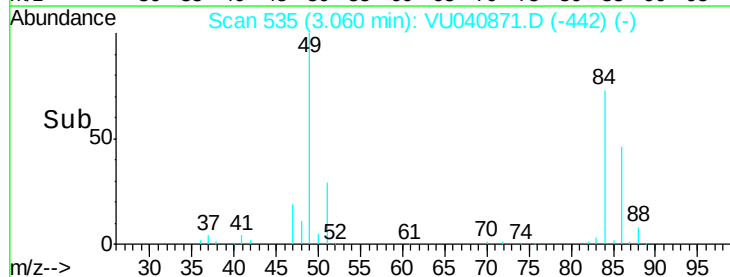
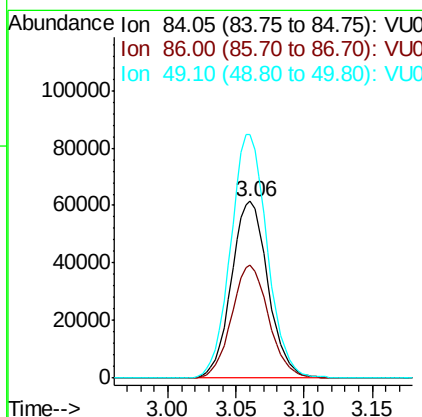
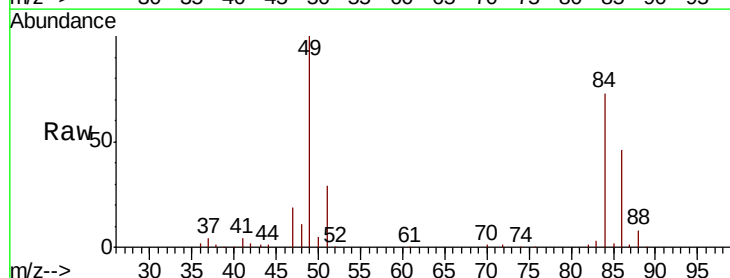
Instrument :
MSVOA_U
ClientSampleId :
VSTD00522

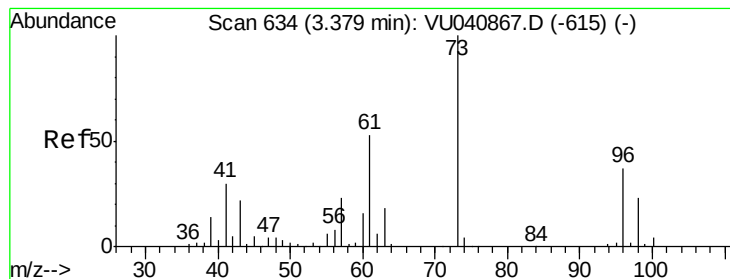
Tot Ion: 43 Resp: 64152
Ion Ratio Lower Upper
43 100
74 21.1 16.6 25.0



#16
Methylene chloride
Concen: 4.790 ug/L
RT: 3.06 min Scan# 535
Delta R.T. 0.00 min
Lab File: VU040871.D
Acq: 21 Oct 2020 13:54

Tgt Ion: 84 Resp: 114940
Ion Ratio Lower Upper
84 100
86 63.9 44.9 83.5
49 137.7 94.7 175.9



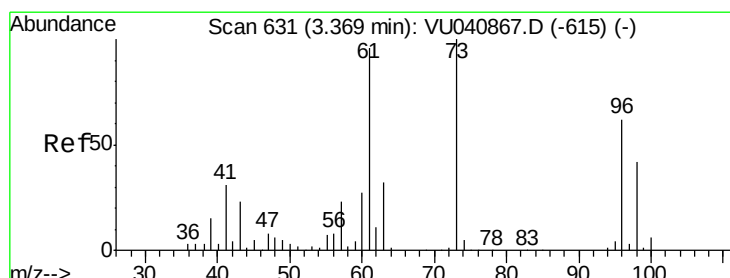
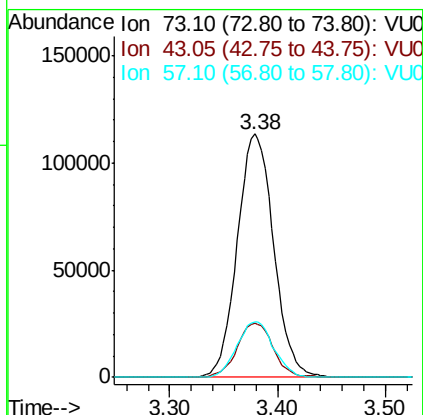
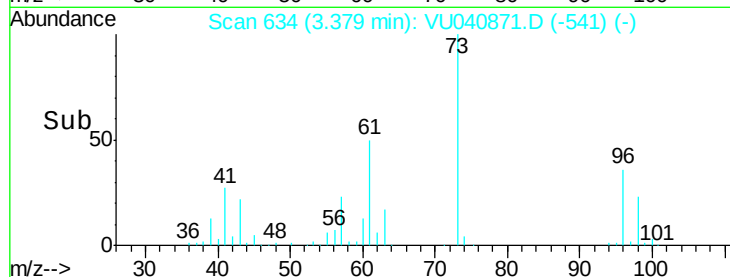
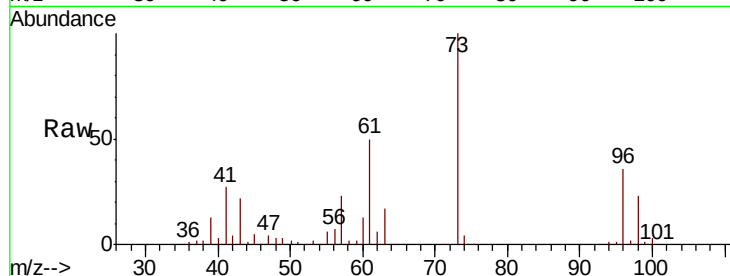


#17

Methyl tert-butyl Ether
 Concen: 5.605 ug/L
 RT: 3.38 min Scan# 634
 Delta R.T. 0.00 min
 Lab File: VU040871.D
 Acq: 21 Oct 2020 13:54

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00522

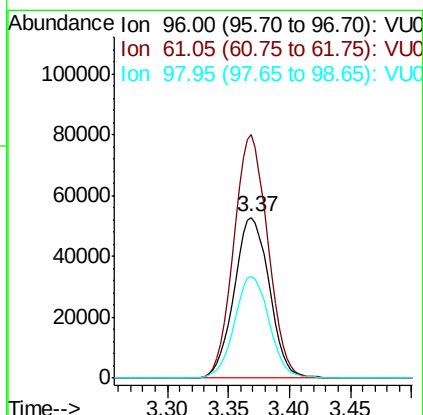
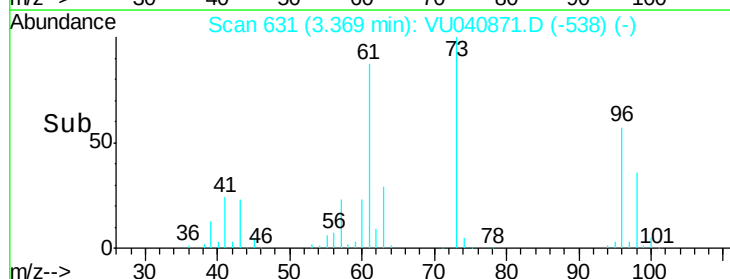
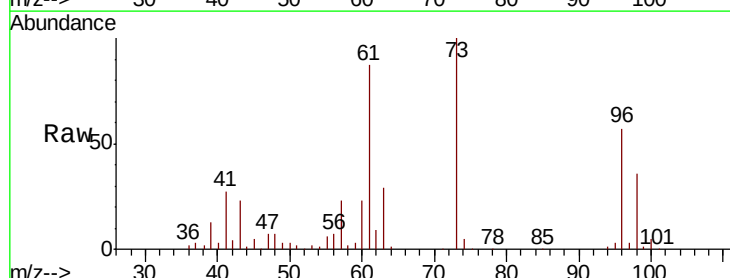
Tot Ion: 73 Resp: 266205
 Ion Ratio Lower Upper
 73 100
 43 22.0 18.6 27.8
 57 23.1 18.5 27.7

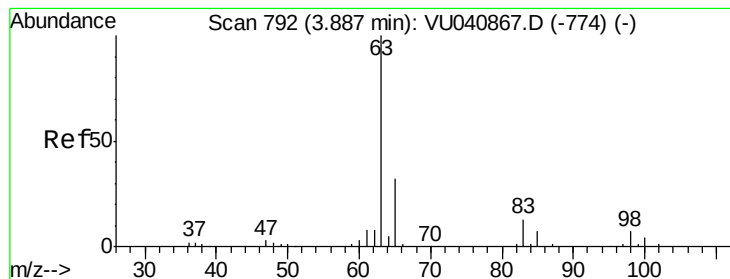


#18

trans-1,2-Dichloroethene
 Concen: 5.209 ug/L
 RT: 3.37 min Scan# 631
 Delta R.T. 0.00 min
 Lab File: VU040871.D
 Acq: 21 Oct 2020 13:54

Tgt Ion: 96 Resp: 105394
 Ion Ratio Lower Upper
 96 100
 61 151.7 107.9 200.3
 98 63.5 47.5 88.1





#19

1,1-Dichloroethane

Concen: 5.059 ug/L

RT: 3.89 min Scan# 792

Delta R.T. 0.00 min

Lab File: VU040871.D

Acq: 21 Oct 2020 13:54

Instrument :

MSVOA_U

ClientSampleId :

VSTD00522

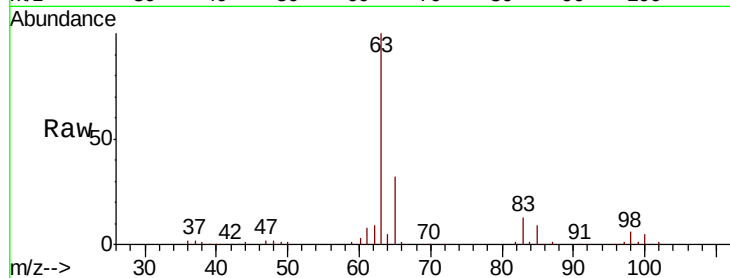
Tot Ion: 63 Resp: 205956

Ion Ratio Lower Upper

63 100

65 32.2 22.6 42.0

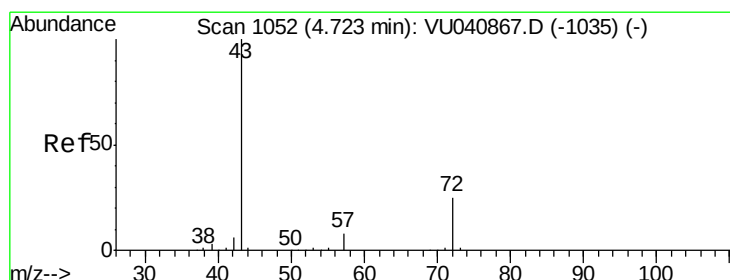
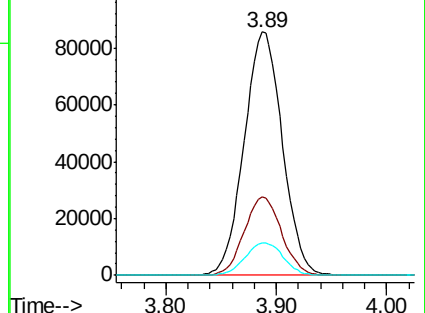
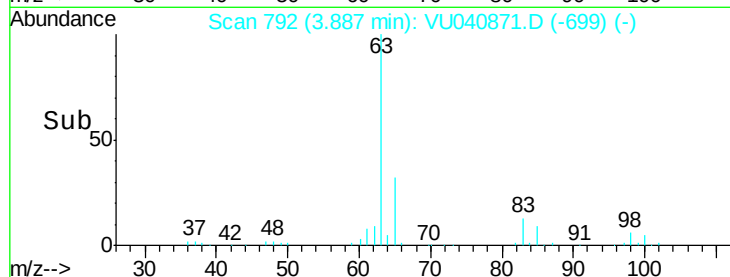
83 13.4 9.4 17.6



Abundance Ion 63.10 (62.80 to 63.80): VU040871.D (-699) (-)

Ion 65.10 (64.80 to 65.80): VU040871.D (-699) (-)

Ion 83.05 (82.75 to 83.75): VU040871.D (-699) (-)



#21

2-Butanone

Concen: 62.966 ug/L

RT: 4.73 min Scan# 1054

Delta R.T. 0.01 min

Lab File: VU040871.D

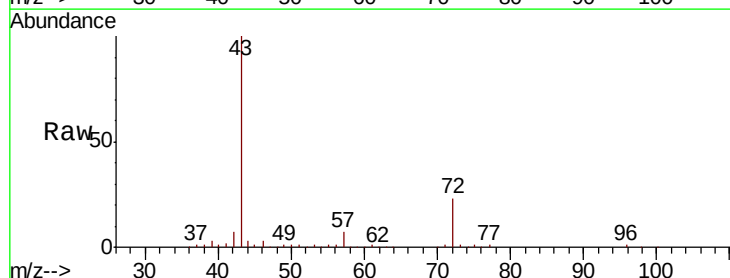
Acq: 21 Oct 2020 13:54

Tgt Ion: 43 Resp: 432485

Ion Ratio Lower Upper

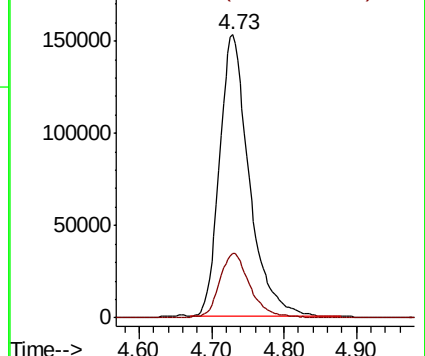
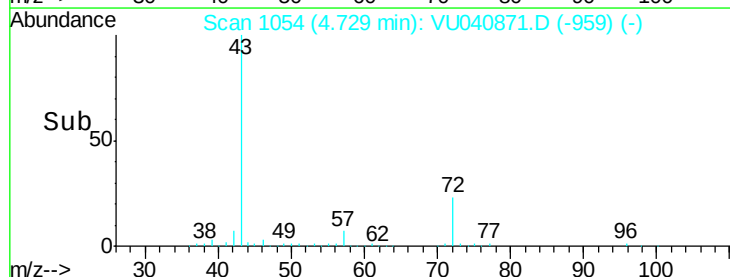
43 100

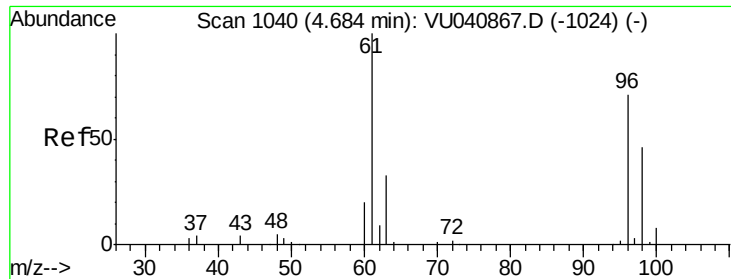
72 23.9 12.2 36.4



Abundance Ion 43.05 (42.75 to 43.75): VU040871.D (-959) (-)

Ion 72.10 (71.80 to 72.80): VU040871.D (-959) (-)





#22

cis-1,2-Dichloroethene

Concen: 4.899 ug/L

RT: 4.68 min Scan# 1040

Delta R.T. 0.00 min

Lab File: VU040871.D

Acq: 21 Oct 2020 13:54

Instrument :

MSVOA_U

ClientSampleId :

VSTD00522

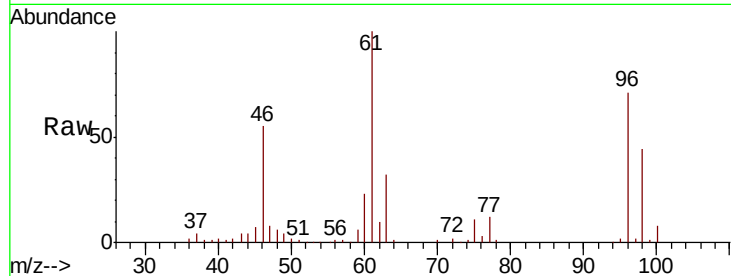
Tot Ion: 96 Resp: 108856

Ion Ratio Lower Upper

96 100

61 141.1 100.0 185.6

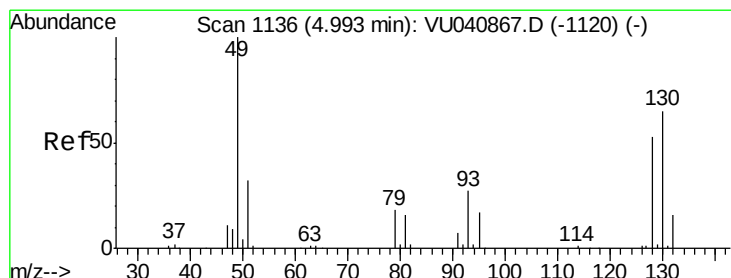
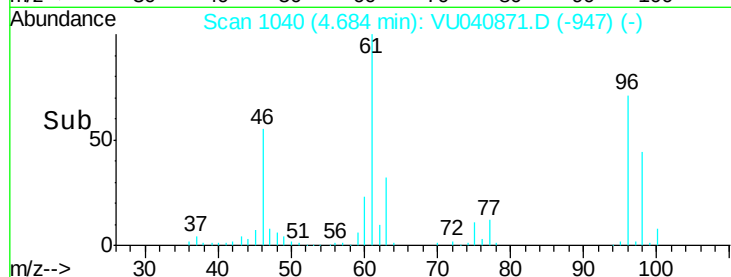
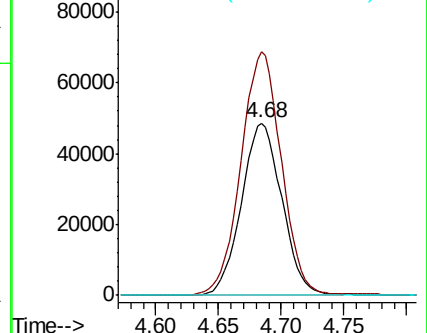
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU040871.D (-947) (-)

Ion 61.05 (60.75 to 61.75): VU040871.D (-947) (-)

Ion 68.15 (67.85 to 68.85): VU040871.D (-947) (-)



#23

Bromochloromethane

Concen: 5.238 ug/L

RT: 4.99 min Scan# 1136

Delta R.T. 0.00 min

Lab File: VU040871.D

Acq: 21 Oct 2020 13:54

Tgt Ion: 128 Resp: 52020

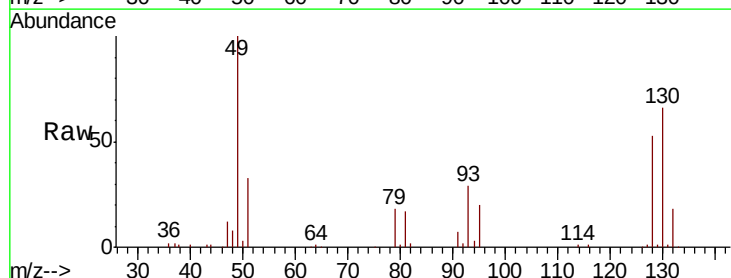
Ion Ratio Lower Upper

128 100

49 190.3 133.2 247.4

130 125.3 86.6 160.8

51 61.9 48.8 73.2

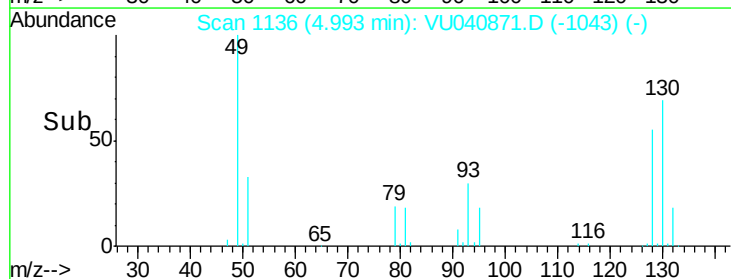
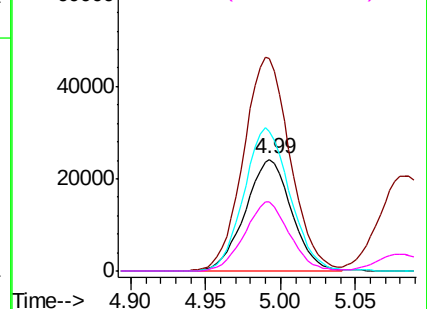


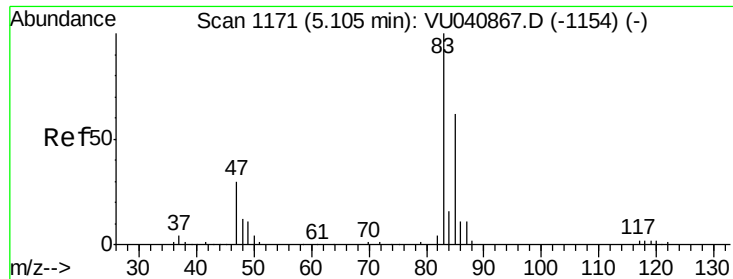
Abundance Ion 127.90 (127.60 to 128.60): VU040871.D (-1043) (-)

Ion 49.10 (48.80 to 49.80): VU040871.D (-1043) (-)

Ion 129.95 (129.65 to 130.65): VU040871.D (-1043) (-)

Ion 51.05 (50.75 to 51.75): VU040871.D (-1043) (-)

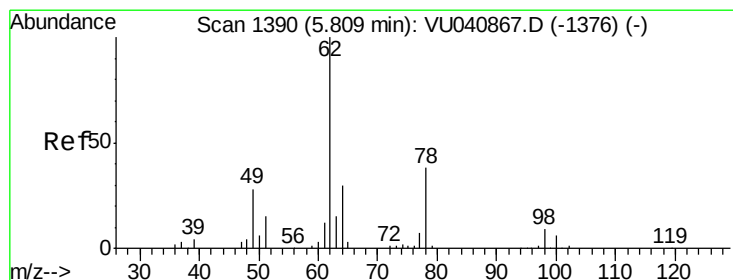
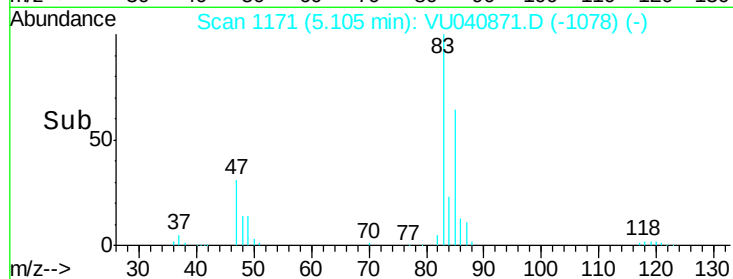
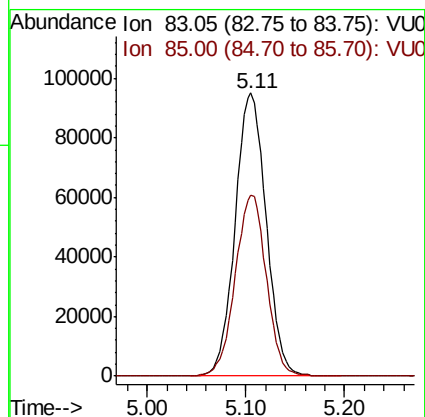
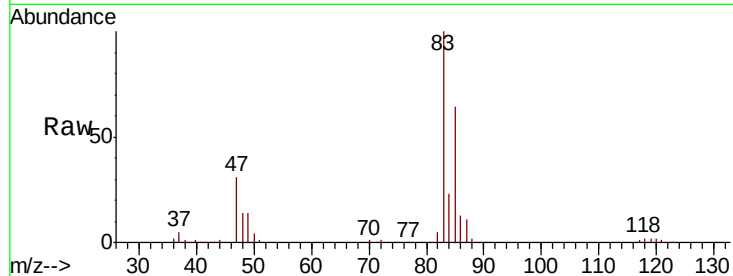




#25
Chloroform
Concen: 4.998 ug/L
RT: 5.11 min Scan# 1171
Delta R.T. 0.00 min
Lab File: VU040871.D
Acq: 21 Oct 2020 13:54

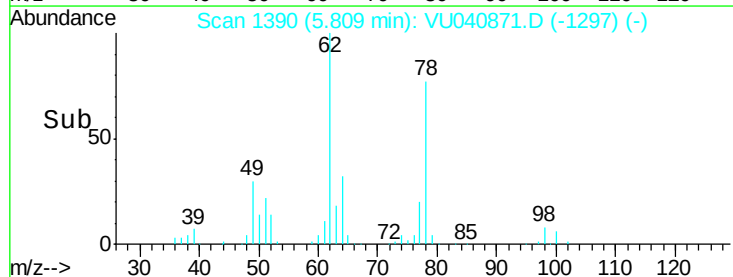
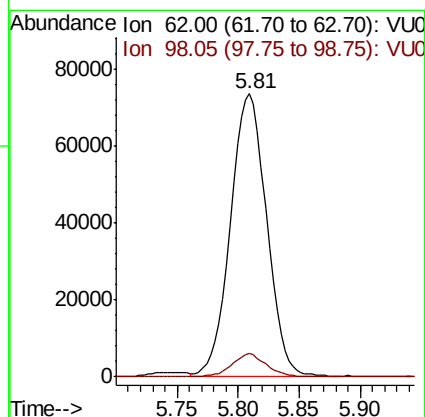
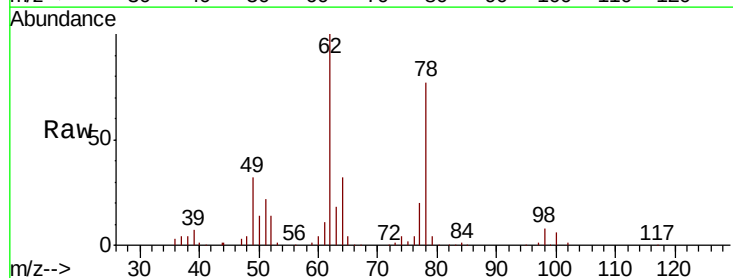
Instrument :
MSVOA_U
ClientSampleId :
VSTD00522

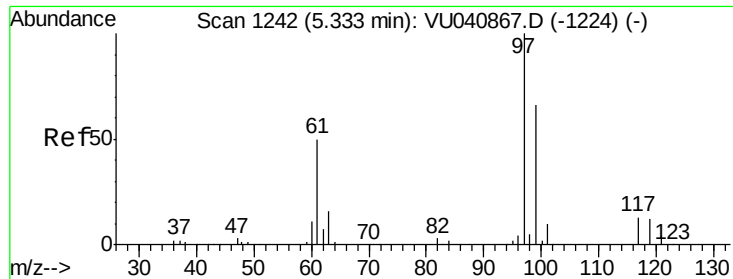
Tot Ion: 83 Resp: 207600
Ion Ratio Lower Upper
83 100
85 63.9 43.4 80.6



#27
1,2-Dichloroethane
Concen: 5.336 ug/L
RT: 5.81 min Scan# 1390
Delta R.T. 0.00 min
Lab File: VU040871.D
Acq: 21 Oct 2020 13:54

Tgt Ion: 62 Resp: 151355
Ion Ratio Lower Upper
62 100
98 8.4 7.0 10.6

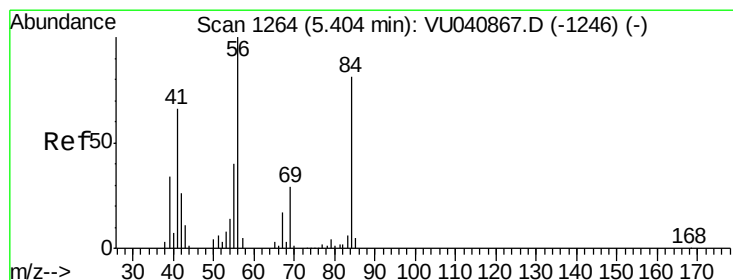
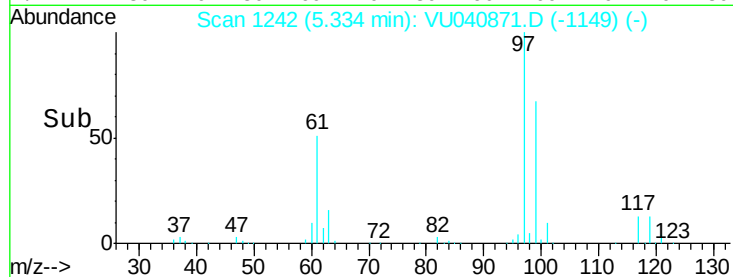
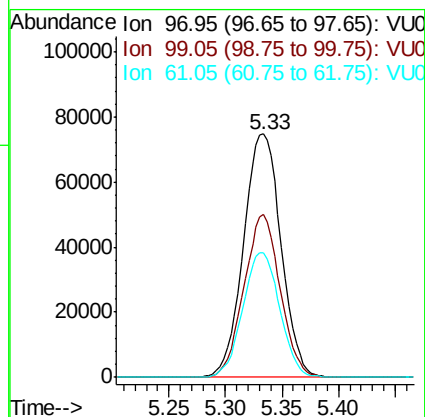
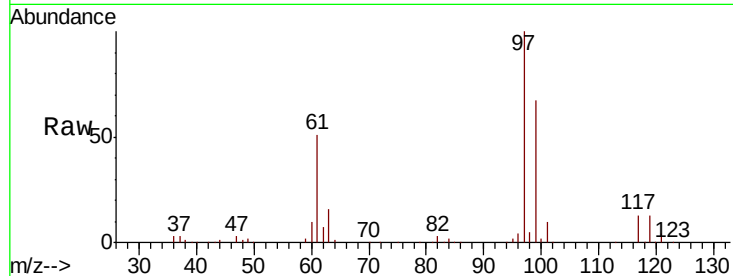




#29
 1,1,1-Trichloroethane
 Concen: 5.006 ug/L
 RT: 5.33 min Scan# 1242
 Delta R.T. 0.00 min
 Lab File: VU040871.D
 Acq: 21 Oct 2020 13:54

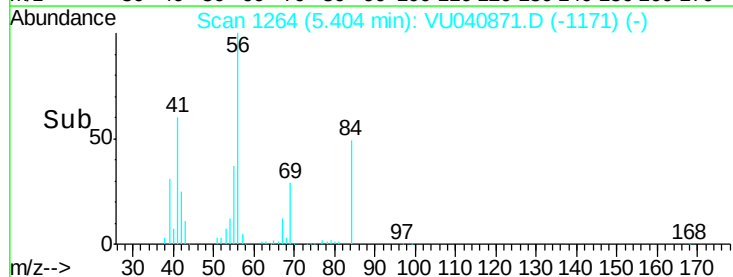
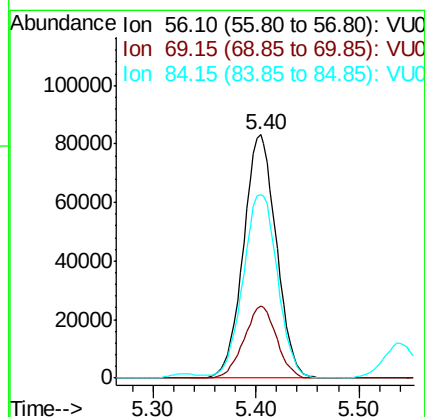
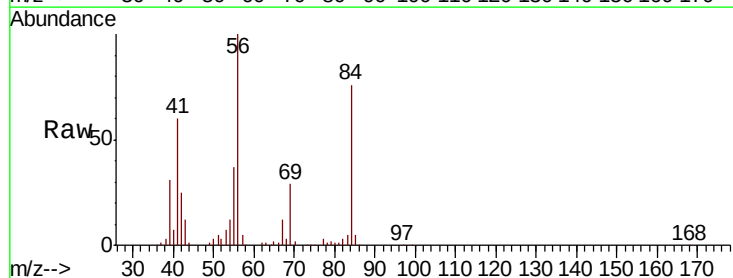
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00522

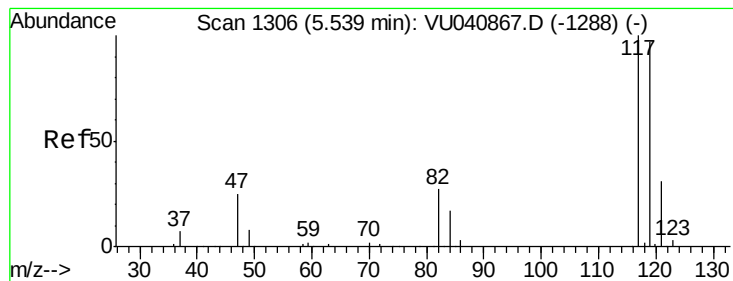
Tot Ion: 97 Resp: 172337
 Ion Ratio Lower Upper
 97 100
 99 64.4 51.2 76.8
 61 50.7 39.0 58.6



#30
 Cyclohexane
 Concen: 5.347 ug/L
 RT: 5.40 min Scan# 1264
 Delta R.T. 0.00 min
 Lab File: VU040871.D
 Acq: 21 Oct 2020 13:54

Tgt Ion: 56 Resp: 183615
 Ion Ratio Lower Upper
 56 100
 69 29.2 22.6 33.8
 84 79.3 63.0 94.6





#31

Carbon tetrachloride

Concen: 5.026 ug/L

RT: 5.54 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VU040871.D

Acq: 21 Oct 2020 13:54

Instrument :

MSVOA_U

ClientSampleId :

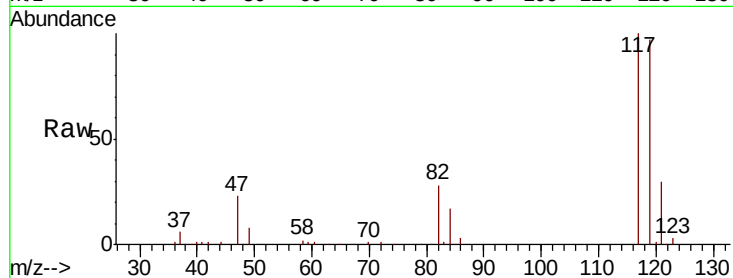
VSTD00522

Tot Ion:117 Resp: 152107

Ion Ratio Lower Upper

117 100

119 97.1 77.2 115.8



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V

5.54

80000

60000

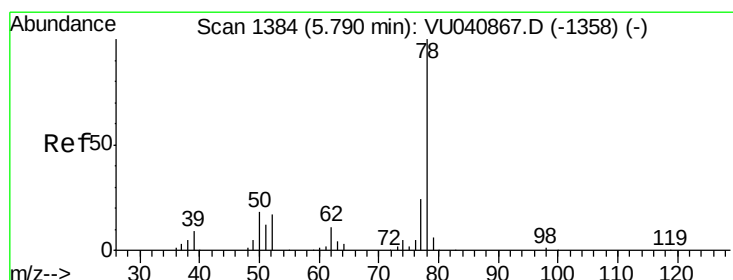
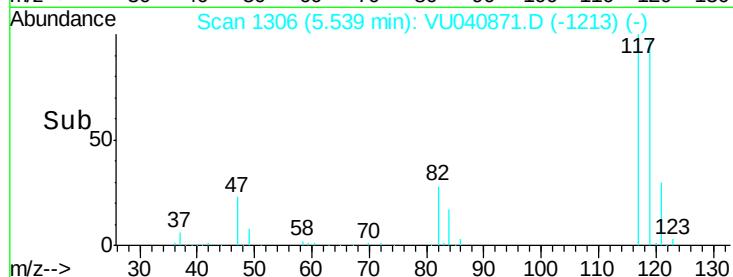
40000

20000

0

Time-->

5.45 5.50 5.55 5.60



#33

Benzene

Concen: 5.071 ug/L

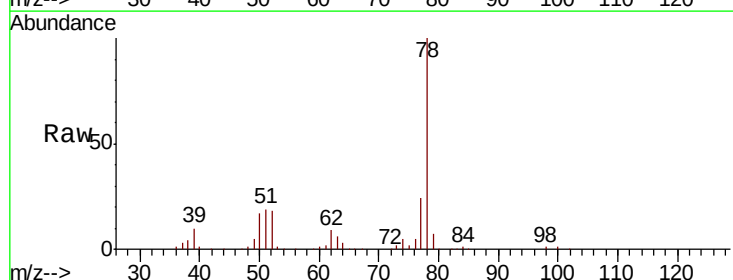
RT: 5.79 min Scan# 1383

Delta R.T. -0.00 min

Lab File: VU040871.D

Acq: 21 Oct 2020 13:54

Tgt Ion: 78 Resp: 431686



Abundance Ion 78.10 (77.80 to 78.80): VU0

250000

200000

150000

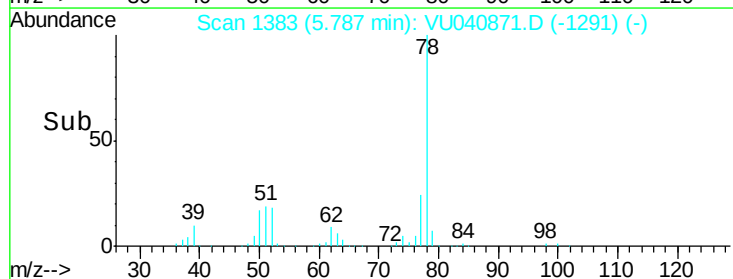
100000

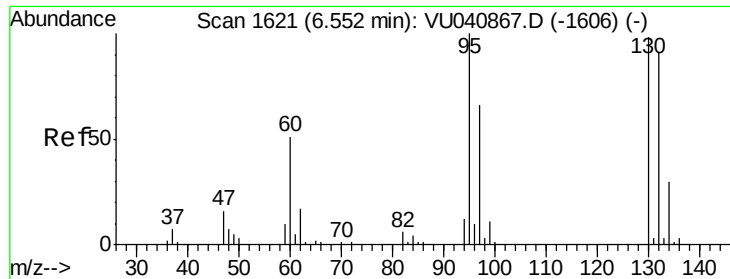
50000

0

Time-->

5.70 5.80 5.90

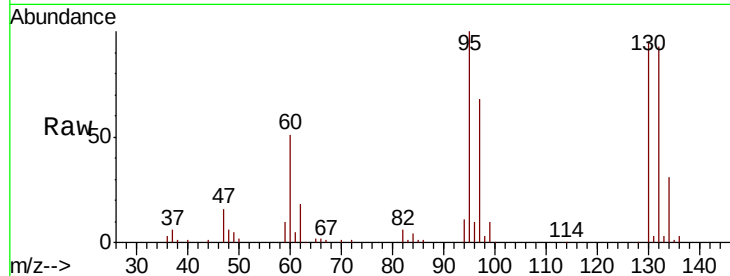




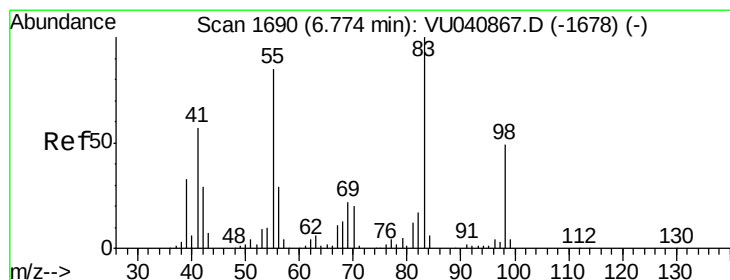
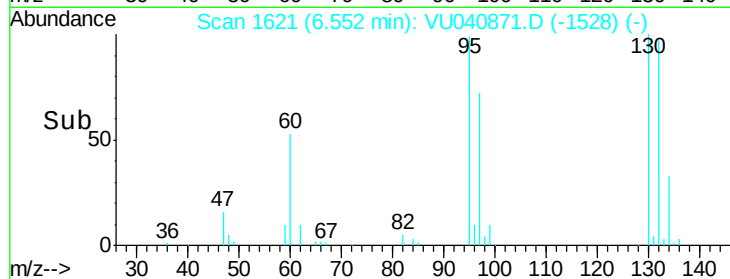
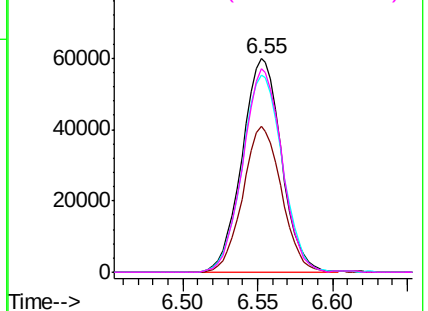
#34
 Trichloroethene
 Concen: 5.073 ug/L
 RT: 6.55 min Scan# 1621
 Delta R.T. 0.00 min
 Lab File: VU040871.D
 Acq: 21 Oct 2020 13:54

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00522

Tot Ion: 95 Resp: 109928
 Ion Ratio Lower Upper
 95 100
 97 68.3 46.0 85.4
 132 92.5 63.6 118.2
 130 95.3 68.6 127.4

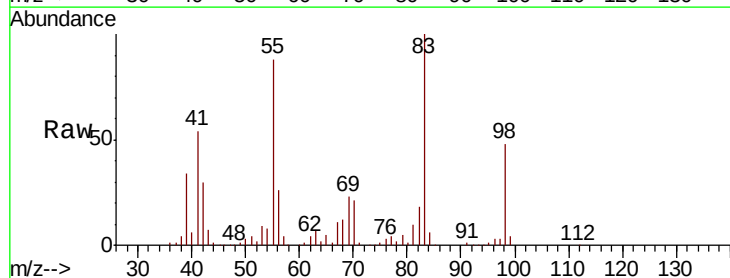


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 96.95 (96.65 to 97.65): VU0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

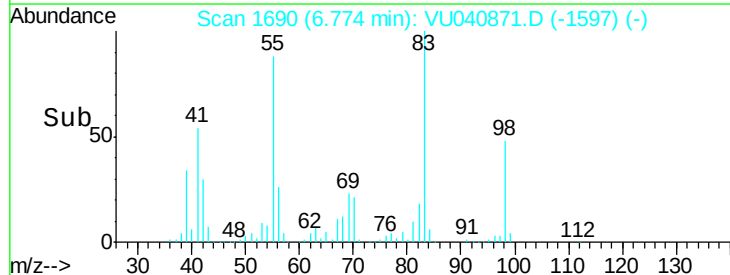
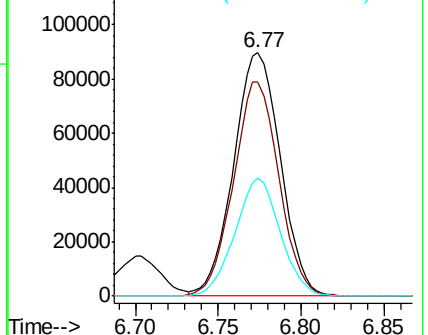


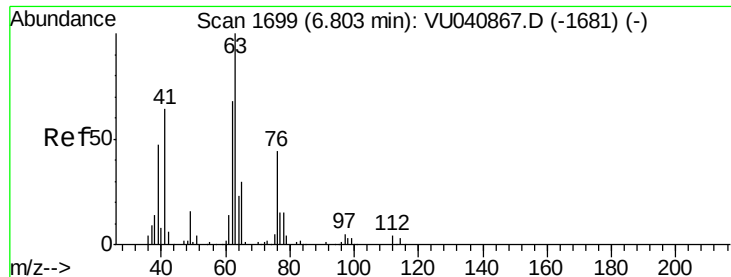
#35
 Methylcyclohexane
 Concen: 5.392 ug/L
 RT: 6.77 min Scan# 1690
 Delta R.T. 0.00 min
 Lab File: VU040871.D
 Acq: 21 Oct 2020 13:54

Tgt Ion: 83 Resp: 174861
 Ion Ratio Lower Upper
 83 100
 55 86.3 69.1 103.7
 98 47.1 37.8 56.6



Abundance Ion 83.15 (82.85 to 83.85): VU0
 Ion 55.10 (54.80 to 55.80): VU0
 Ion 98.15 (97.85 to 98.85): VU0

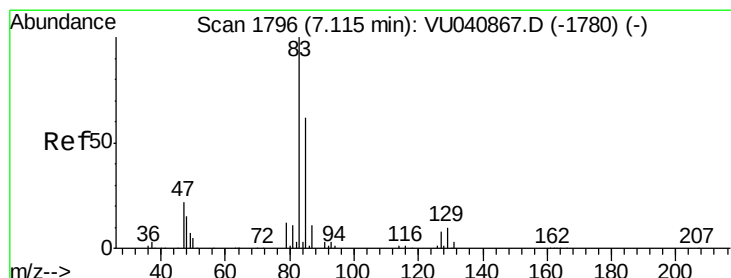
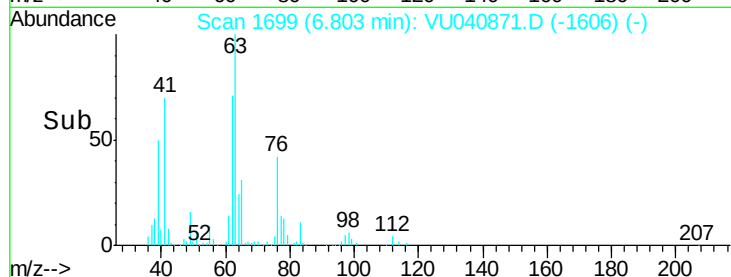
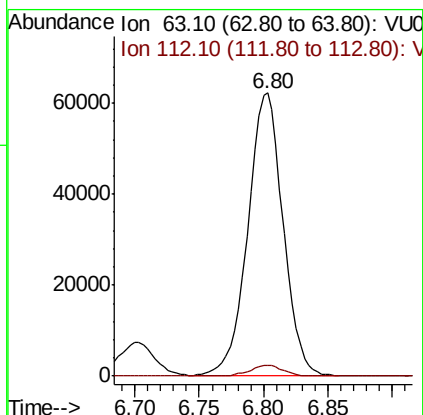
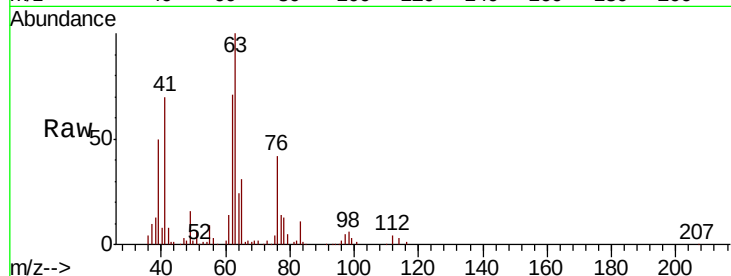




#37
 1,2-Dichloropropane
 Concen: 5.138 ug/L
 RT: 6.80 min Scan# 1699
 Delta R.T. 0.00 min
 Lab File: VU040871.D
 Acq: 21 Oct 2020 13:54

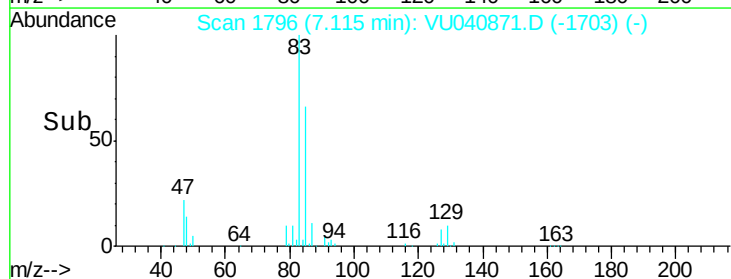
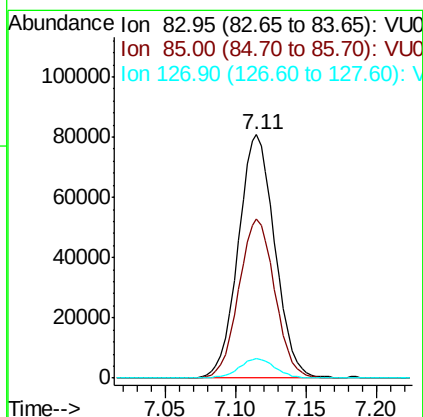
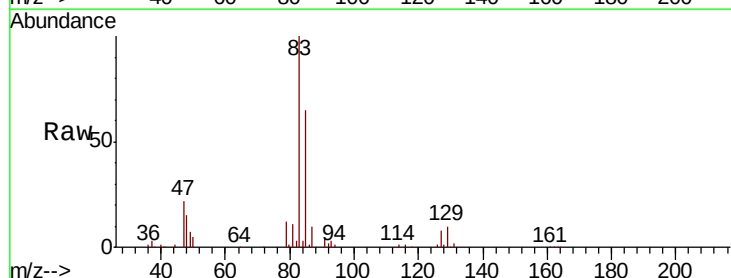
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00522

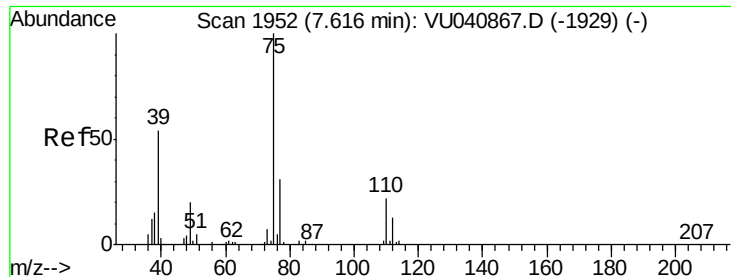
Tot Ion: 63 Resp: 118097
 Ion Ratio Lower Upper
 63 100
 112 3.7 3.0 4.6



#38
 Bromodichloromethane
 Concen: 5.031 ug/L
 RT: 7.11 min Scan# 1796
 Delta R.T. 0.00 min
 Lab File: VU040871.D
 Acq: 21 Oct 2020 13:54

Tgt Ion: 83 Resp: 146837
 Ion Ratio Lower Upper
 83 100
 85 65.2 43.3 80.5
 127 8.0 6.2 9.4



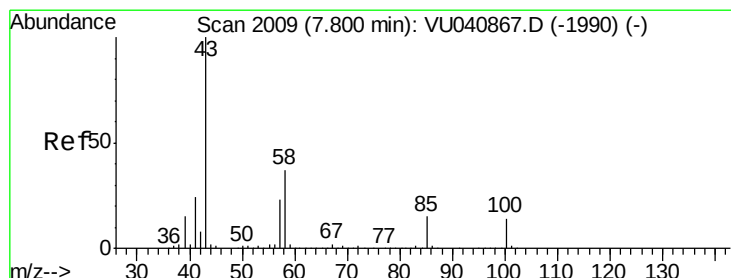
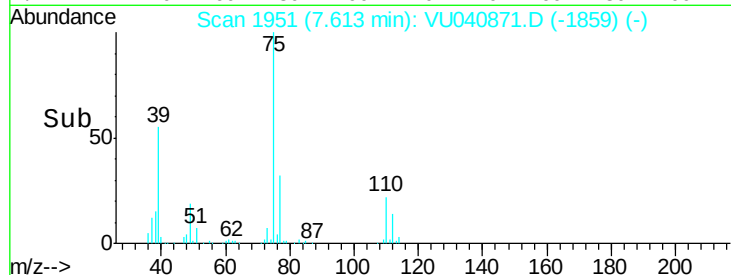
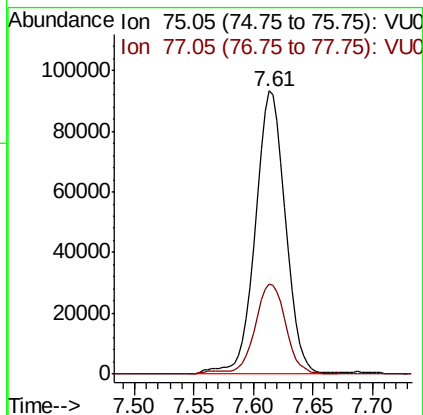
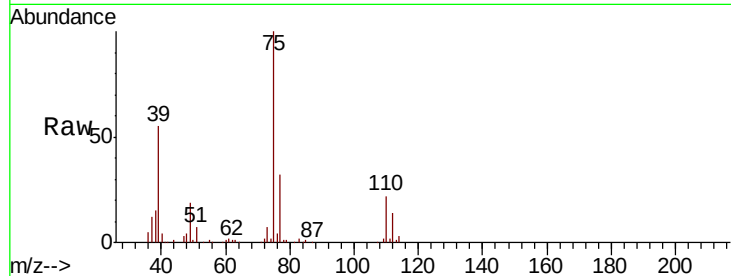


#39

cis-1,3-Dichloropropene
 Concen: 5.334 ug/L
 RT: 7.61 min Scan# 1951
 Delta R.T. -0.00 min
 Lab File: VU040871.D
 Acq: 21 Oct 2020 13:54

Instrument :
 MSVOA_U
 ClientSampleID :
 VSTD00522

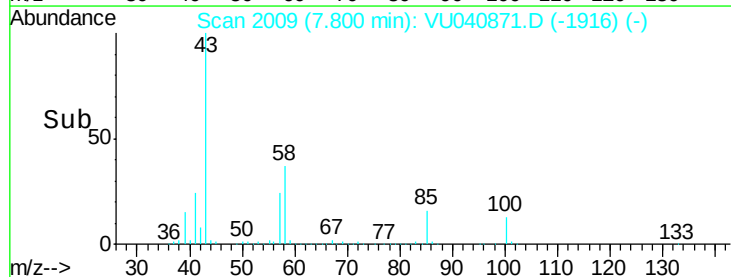
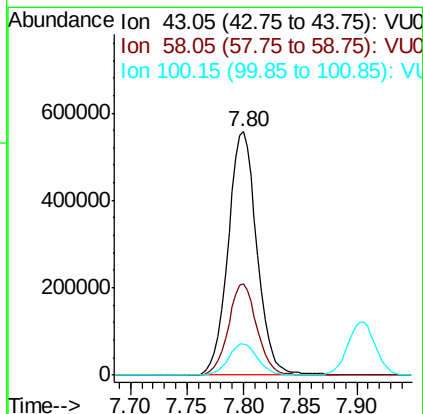
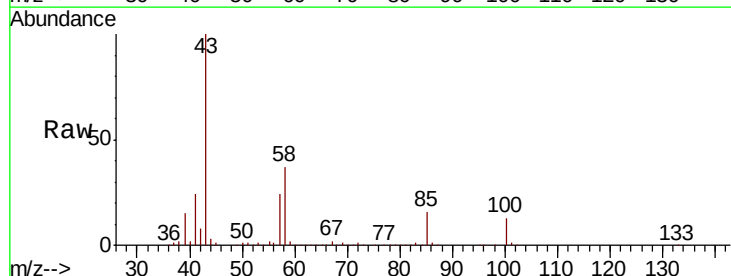
Tot Ion: 75 Resp: 163966
 Ion Ratio Lower Upper
 75 100
 77 31.7 21.6 40.2

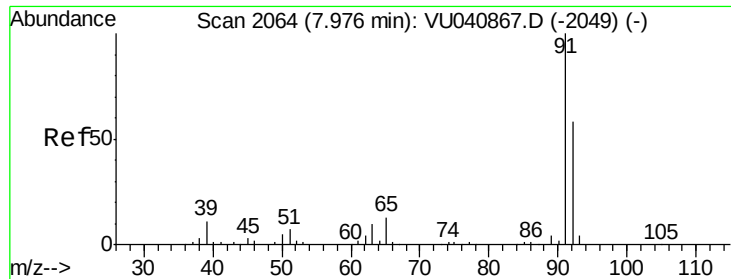


#40

4-Methyl-2-pentanone
 Concen: 63.865 ug/L
 RT: 7.80 min Scan# 2009
 Delta R.T. 0.00 min
 Lab File: VU040871.D
 Acq: 21 Oct 2020 13:54

Tgt Ion: 43 Resp: 985077
 Ion Ratio Lower Upper
 43 100
 58 37.1 29.7 44.5
 100 13.1 10.6 16.0





#42

Toluene

Concen: 5.321 ug/L

RT: 7.97 min Scan# 2063

Delta R.T. -0.00 min

Lab File: VU040871.D

Acq: 21 Oct 2020 13:54

Instrument :

MSVOA_U

ClientSampleId :

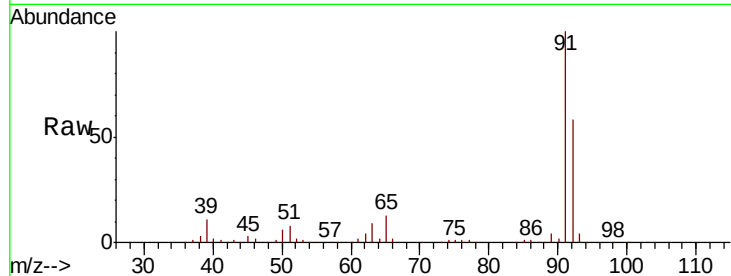
VSTD00522

Tot Ion: 91 Resp: 455007

Ion Ratio Lower Upper

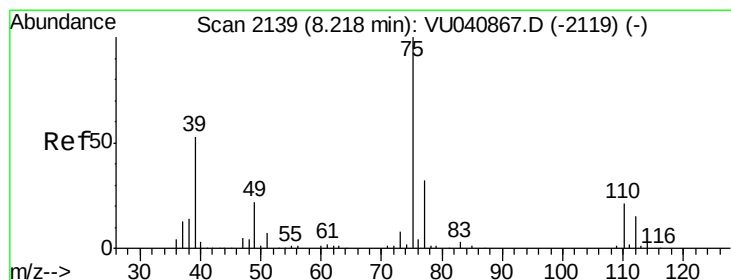
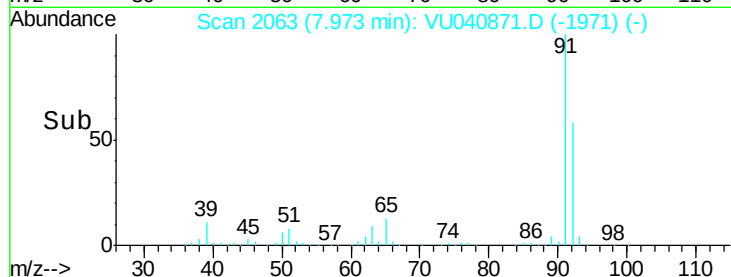
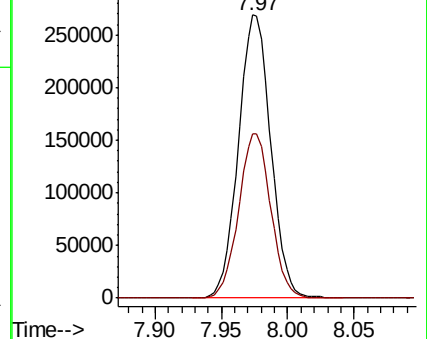
91 100

92 57.9 40.6 75.4



Abundance Ion 91.15 (90.85 to 91.85): VU040871.D (-1971) (-)

Ion 92.15 (91.85 to 92.85): VU040871.D (-1971) (-)



#44

trans-1,3-Dichloropropene

Concen: 5.499 ug/L

RT: 8.21 min Scan# 2138

Delta R.T. -0.00 min

Lab File: VU040871.D

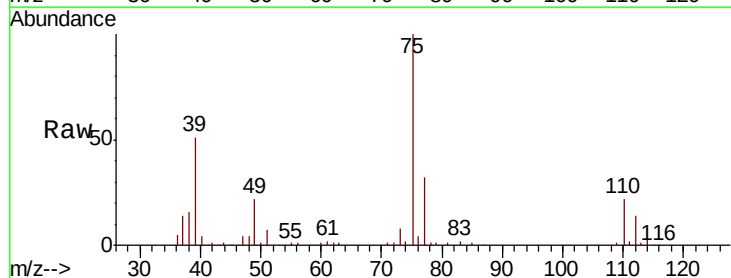
Acq: 21 Oct 2020 13:54

Tgt Ion: 75 Resp: 153039

Ion Ratio Lower Upper

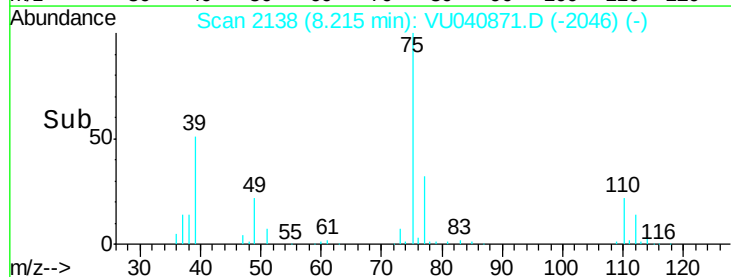
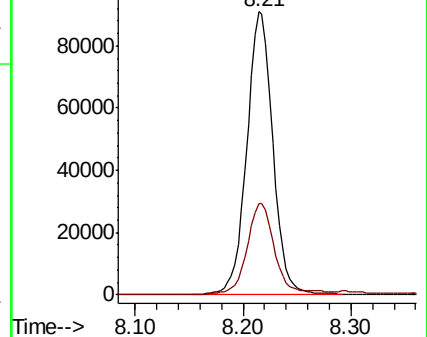
75 100

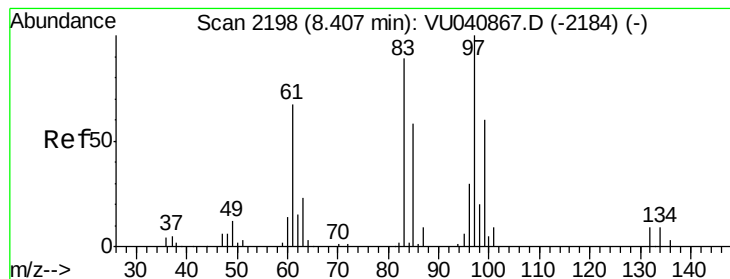
77 32.1 22.6 42.0



Abundance Ion 75.05 (74.75 to 75.75): VU040871.D (-2046) (-)

Ion 77.05 (76.75 to 77.75): VU040871.D (-2046) (-)





#45

1,1,2-Trichloroethane

Concen: 5.499 ug/L

RT: 8.40 min Scan# 2197

Delta R.T. -0.00 min

Lab File: VU040871.D

Acq: 21 Oct 2020 13:54

Instrument :

MSVOA_U

ClientSampleId :

VSTD00522

Tot Ion: 97 Resp: 86131

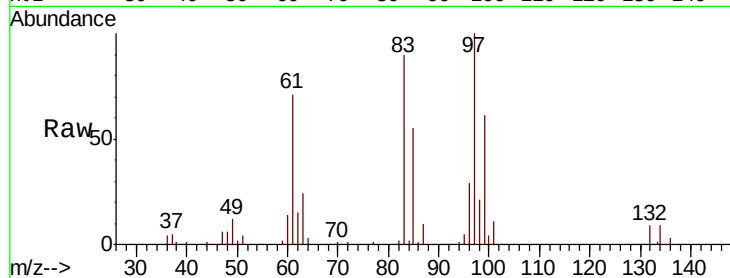
Ion Ratio Lower Upper

97 100

99 61.0 42.1 78.1

83 90.0 62.0 115.2

85 55.1 40.3 74.8



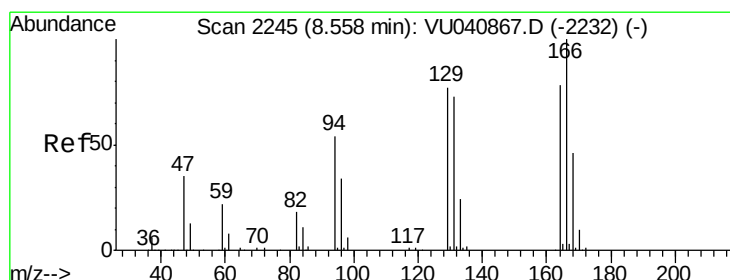
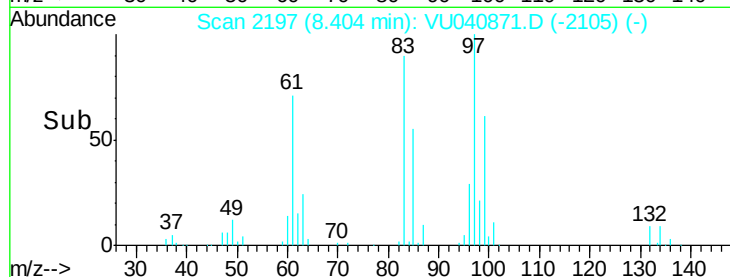
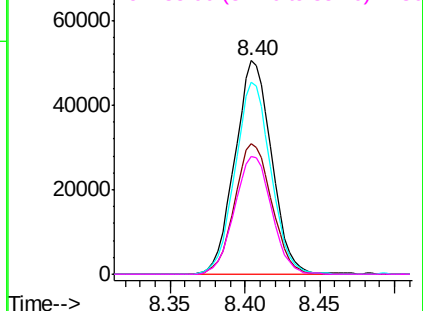
Abundance

Ion 96.95 (96.65 to 97.65): VU040871.D (-2184) (-)

Ion 99.05 (98.75 to 99.75): VU040871.D (-2184) (-)

Ion 82.95 (82.65 to 83.65): VU040871.D (-2184) (-)

Ion 85.00 (84.70 to 85.70): VU040871.D (-2184) (-)



#47

Tetrachloroethene

Concen: 4.989 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. 0.00 min

Lab File: VU040871.D

Acq: 21 Oct 2020 13:54

Tgt Ion: 164 Resp: 80450

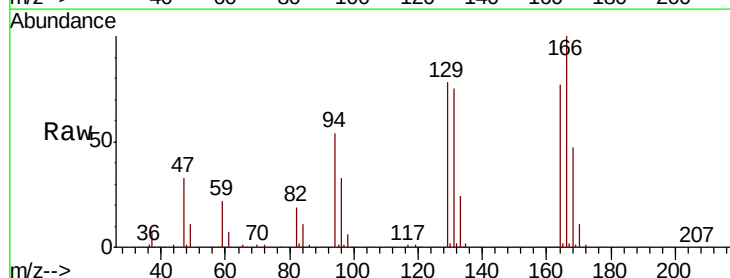
Ion Ratio Lower Upper

164 100

129 101.6 69.7 129.4

131 98.2 65.4 121.4

166 130.4 90.0 167.2



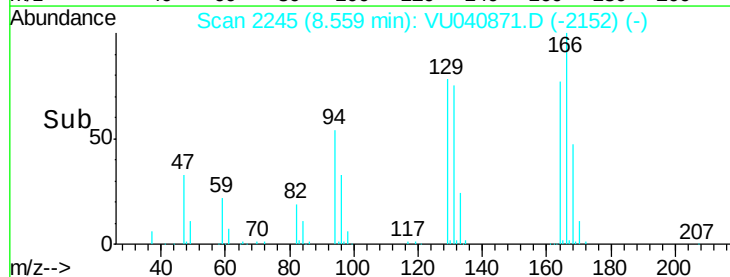
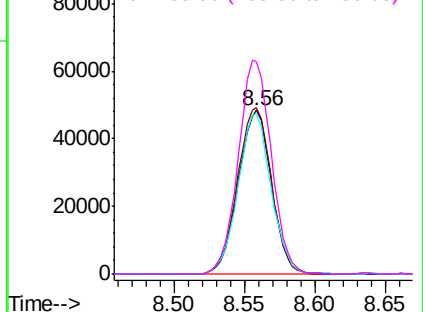
Abundance

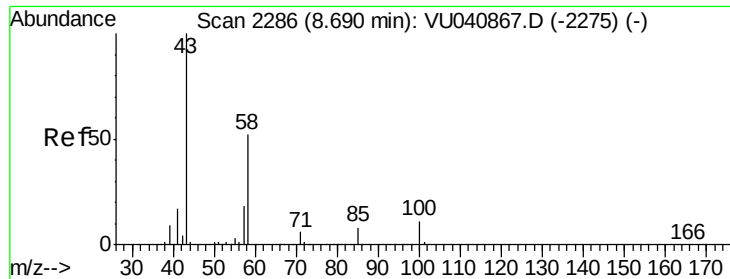
Ion 163.90 (163.60 to 164.60): VU040871.D (-2232) (-)

Ion 128.95 (128.65 to 129.65): VU040871.D (-2232) (-)

Ion 130.95 (130.65 to 131.65): VU040871.D (-2232) (-)

Ion 165.90 (165.60 to 166.60): VU040871.D (-2232) (-)

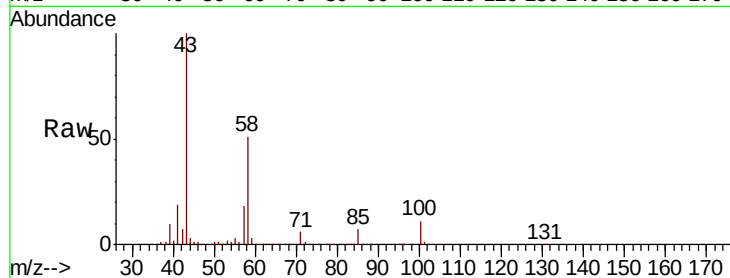




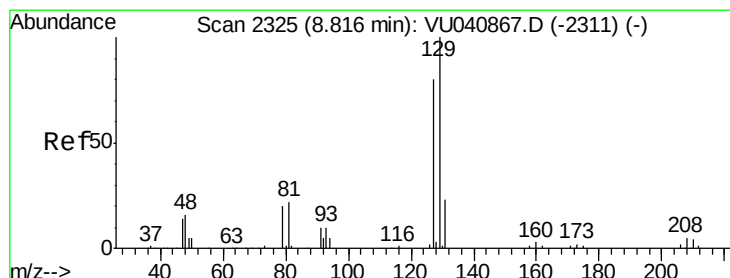
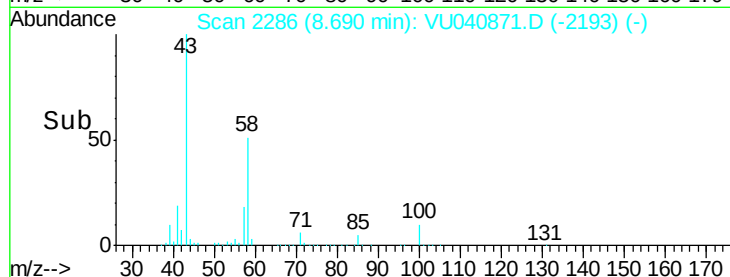
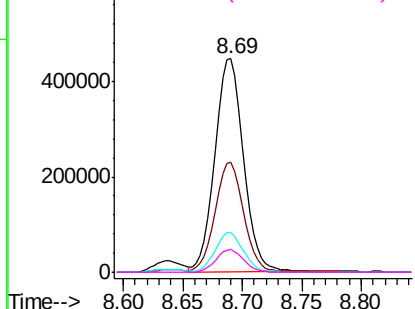
#48
2-Hexanone
Concen: 66.593 ug/L
RT: 8.69 min Scan# 2286
Delta R.T. 0.00 min
Lab File: VU040871.D
Acq: 21 Oct 2020 13:54

Instrument :
MSVOA_U
ClientSampleId :
VSTD00522

Tot Ion: 43 Resp: 747219
Ion Ratio Lower Upper
43 100
58 51.6 40.9 61.3
57 18.1 14.4 21.6
100 10.5 8.3 12.5

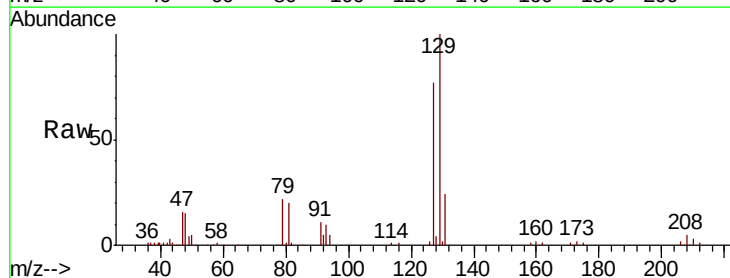


Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0
Ion 57.20 (56.90 to 57.90): VU0
Ion 100.15 (99.85 to 100.85): VU0

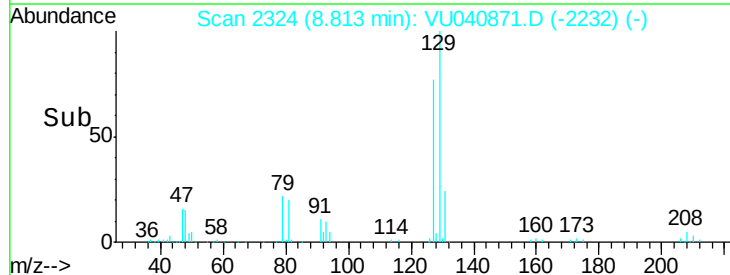
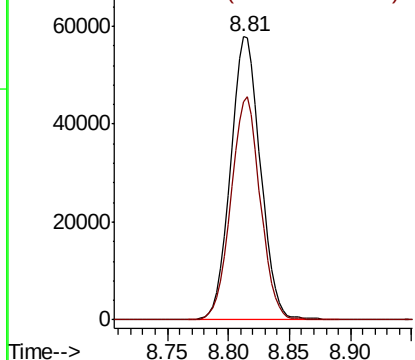


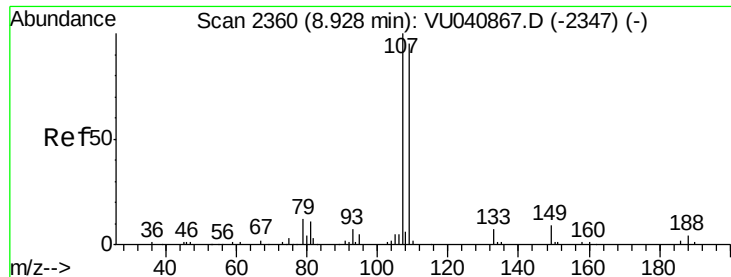
#49
Dibromochloromethane
Concen: 5.293 ug/L
RT: 8.81 min Scan# 2324
Delta R.T. -0.00 min
Lab File: VU040871.D
Acq: 21 Oct 2020 13:54

Tgt Ion: 129 Resp: 98917
Ion Ratio Lower Upper
129 100
127 77.3 55.9 103.9



Abundance Ion 128.95 (128.65 to 129.65): V
Ion 126.90 (126.60 to 127.60): V

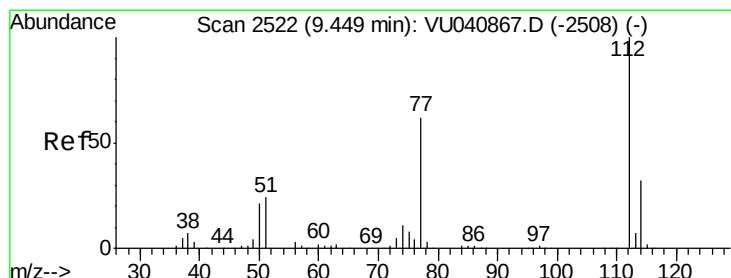
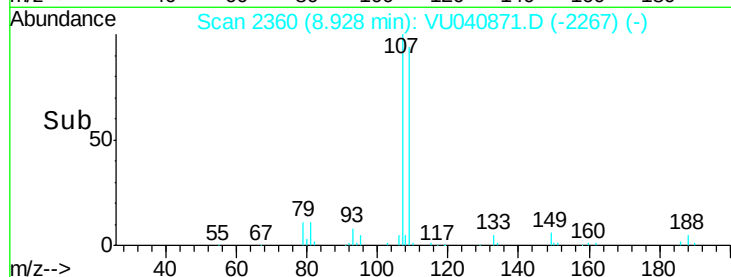
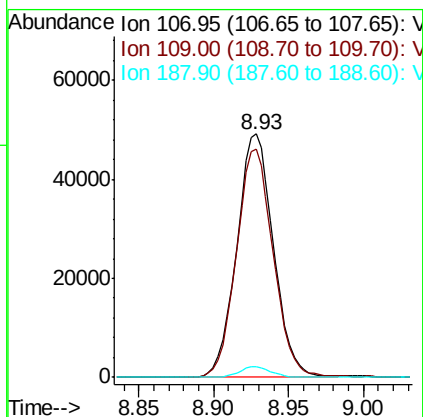
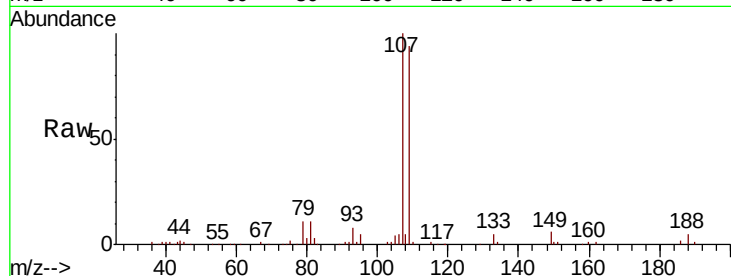




#50
 1,2-Dibromoethane
 Concen: 5.738 ug/L
 RT: 8.93 min Scan# 2360
 Delta R.T. 0.00 min
 Lab File: VU040871.D
 Acq: 21 Oct 2020 13:54

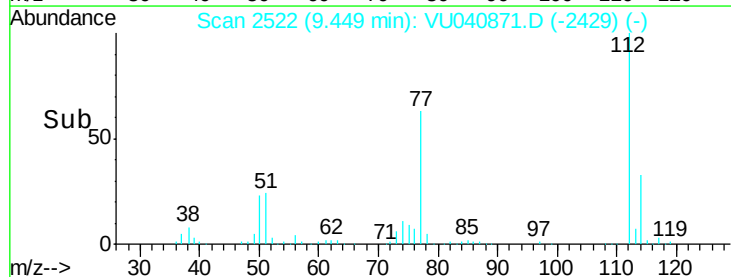
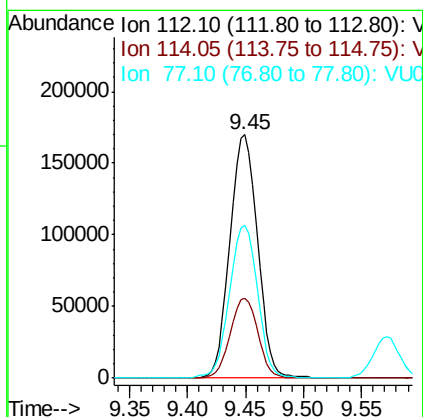
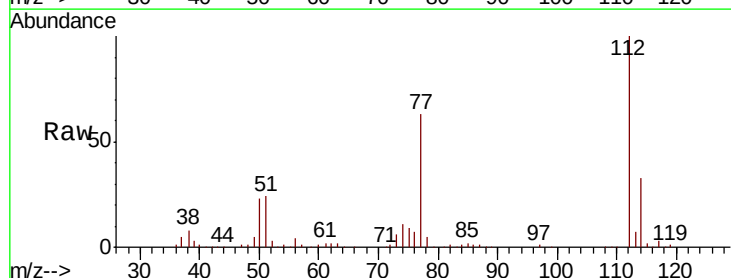
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00522

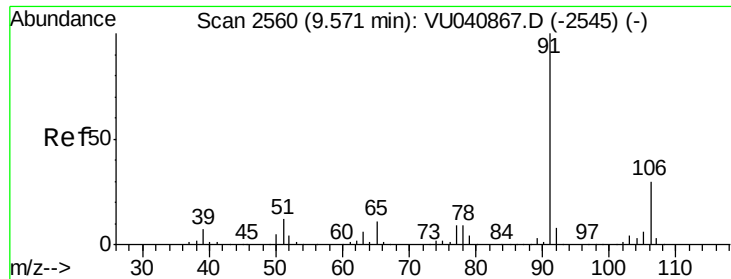
Tot Ion:107 Resp: 83939
 Ion Ratio Lower Upper
 107 100
 109 93.6 66.2 123.0
 188 4.5 3.1 4.7



#51
 Chlorobenzene
 Concen: 5.080 ug/L
 RT: 9.45 min Scan# 2522
 Delta R.T. 0.00 min
 Lab File: VU040871.D
 Acq: 21 Oct 2020 13:54

Tgt Ion:112 Resp: 280504
 Ion Ratio Lower Upper
 112 100
 114 33.0 22.3 41.3
 77 62.9 49.8 74.6

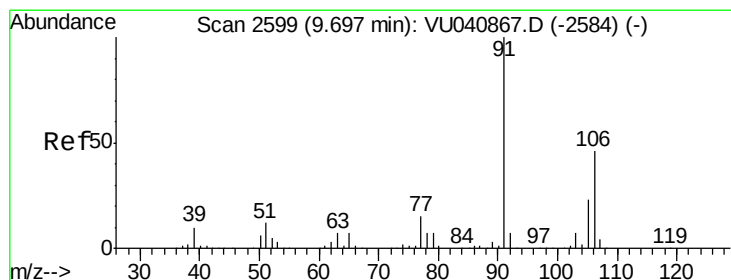
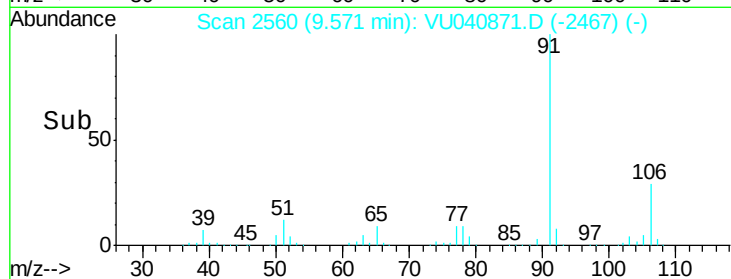
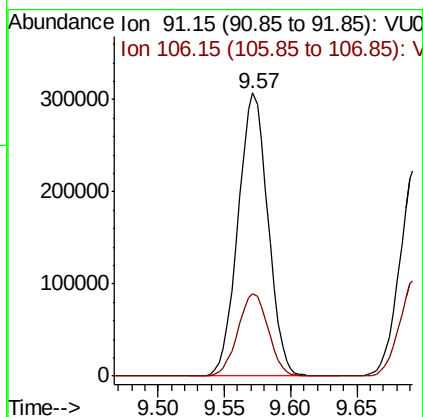
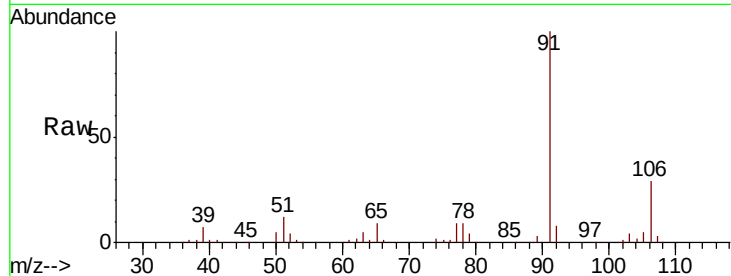




#52
Ethylbenzene
Concen: 5.252 ug/L
RT: 9.57 min Scan# 2560
Delta R.T. 0.00 min
Lab File: VU040871.D
Acq: 21 Oct 2020 13:54

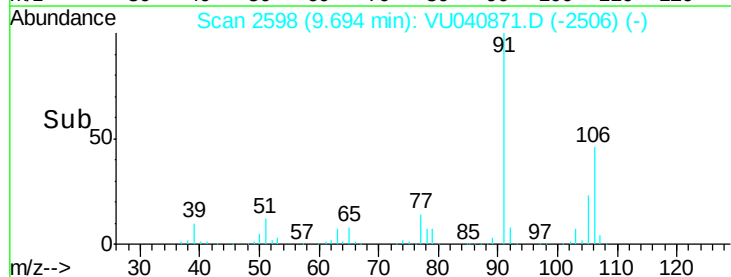
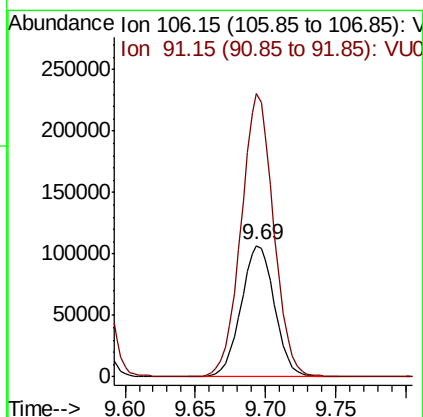
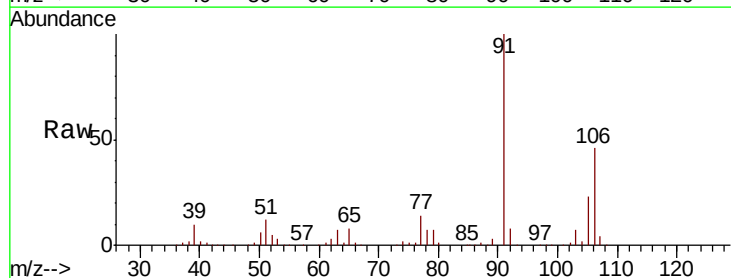
Instrument :
MSVOA_U
ClientSampled :
VSTD00522

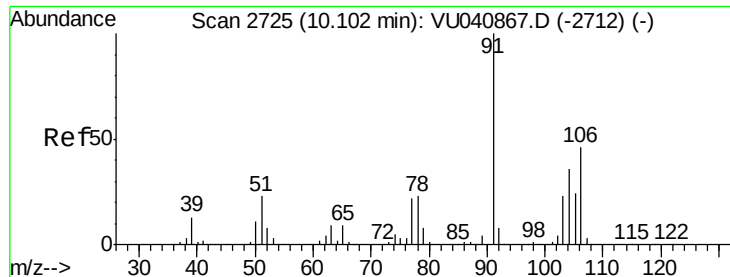
Tot Ion: 91 Resp: 482856
Ion Ratio Lower Upper
91 100
106 29.3 21.2 39.4



#53
m,p-Xylene
Concen: 5.317 ug/L
RT: 9.69 min Scan# 2598
Delta R.T. -0.00 min
Lab File: VU040871.D
Acq: 21 Oct 2020 13:54

Tgt Ion: 106 Resp: 176087
Ion Ratio Lower Upper
106 100
91 215.6 153.3 284.7

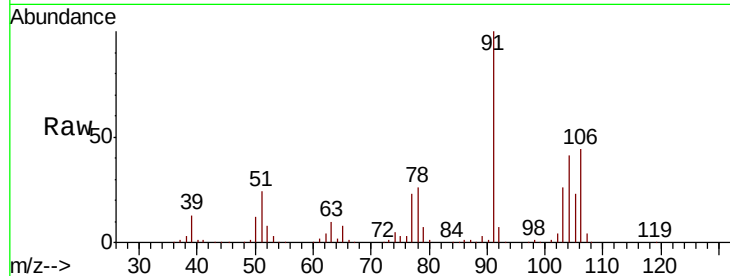




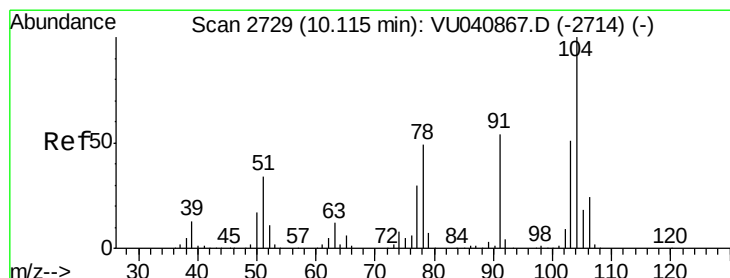
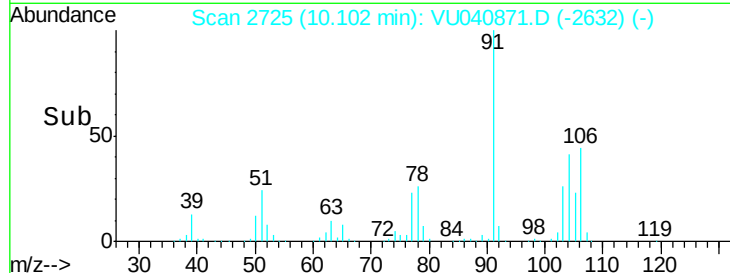
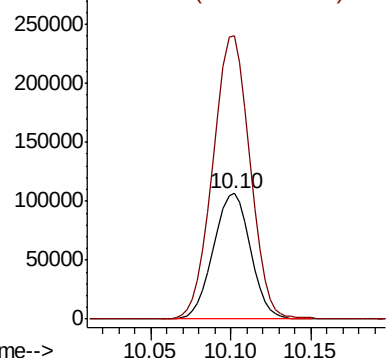
#54
o-Xylene
Concen: 5.362 ug/L
RT: 10.10 min Scan# 2725
Delta R.T. 0.00 min
Lab File: VU040871.D
Acq: 21 Oct 2020 13:54

Instrument :
MSVOA_U
ClientSampleId :
VSTD00522

Tot Ion:106 Resp: 168852
Ion Ratio Lower Upper
106 100
91 225.2 153.6 285.2

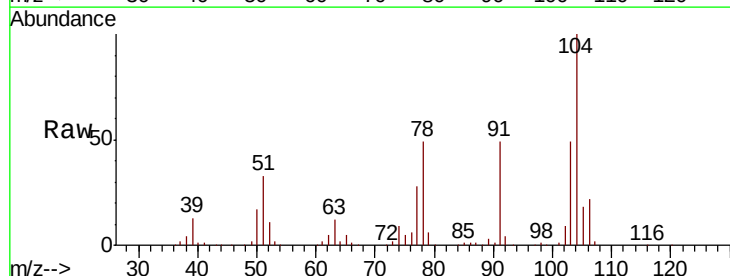


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

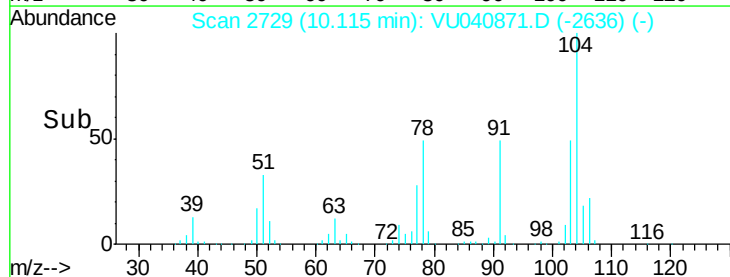
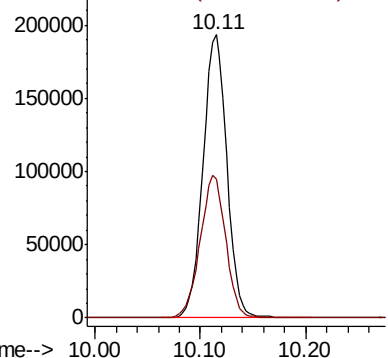


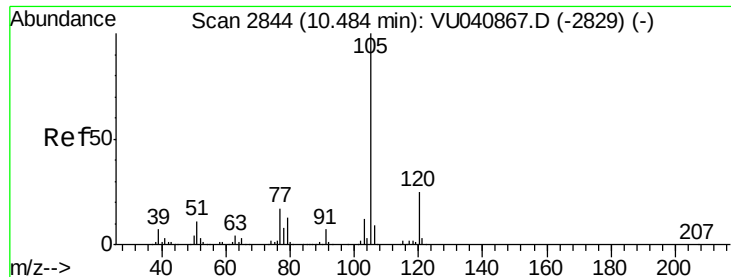
#55
Styrene
Concen: 5.516 ug/L
RT: 10.11 min Scan# 2729
Delta R.T. 0.00 min
Lab File: VU040871.D
Acq: 21 Oct 2020 13:54

Tgt Ion:104 Resp: 302192
Ion Ratio Lower Upper
104 100
78 49.2 34.6 64.3



Abundance Ion 104.10 (103.80 to 104.80): V
Ion 78.10 (77.80 to 78.80): VU0





#56

Isopropylbenzene

Concen: 5.400 ug/L

RT: 10.48 min Scan# 2844

Delta R.T. 0.00 min

Lab File: VU040871.D

Acq: 21 Oct 2020 13:54

Instrument :

MSVOA_U

ClientSampleId :

VSTD00522

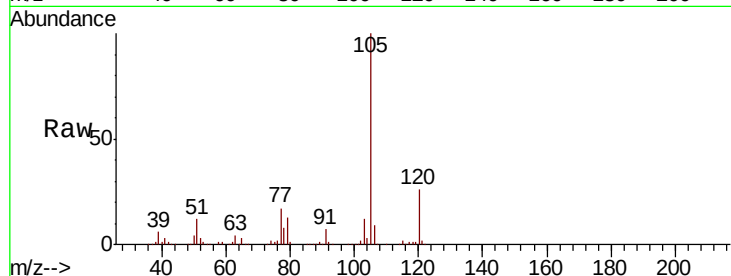
Tot Ion:105 Resp: 455159

Ion Ratio Lower Upper

105 100

120 26.1 20.2 30.4

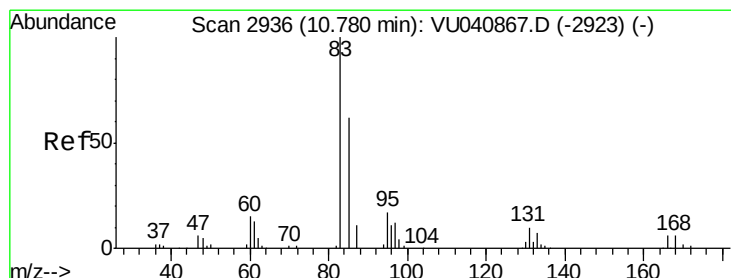
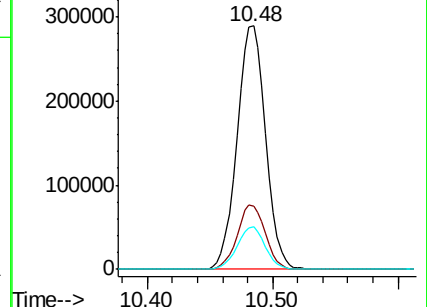
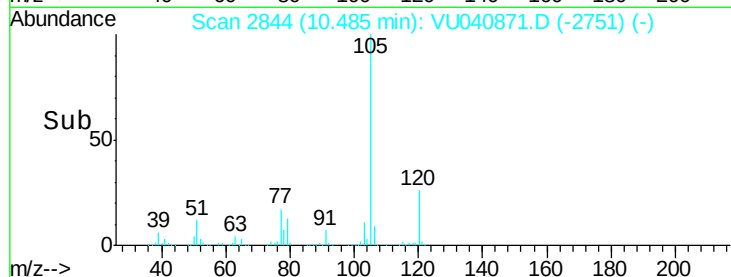
77 17.1 13.6 20.4



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 5.997 ug/L

RT: 10.78 min Scan# 2936

Delta R.T. 0.00 min

Lab File: VU040871.D

Acq: 21 Oct 2020 13:54

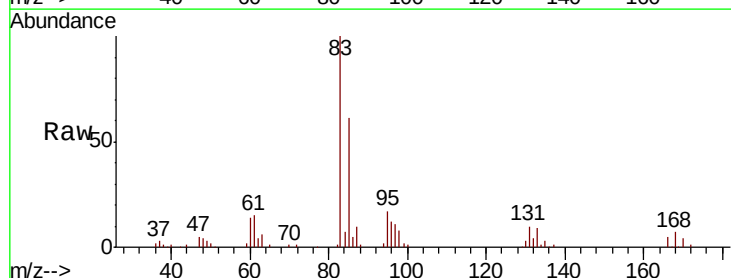
Tgt Ion: 83 Resp: 119625

Ion Ratio Lower Upper

83 100

85 61.0 44.1 81.9

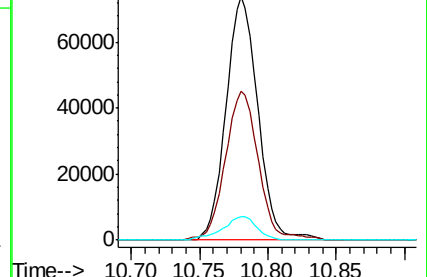
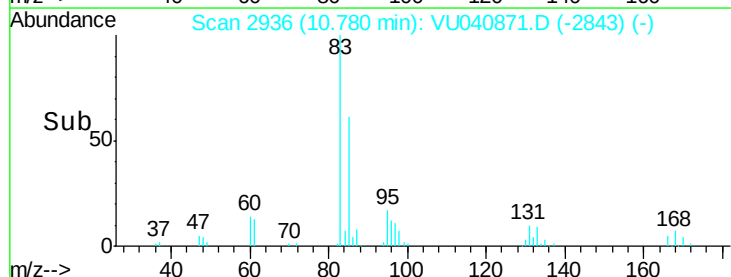
131 9.8 8.1 12.1

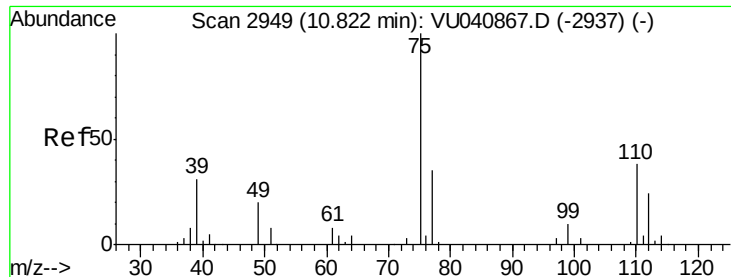


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 5.907 ug/L

RT: 10.82 min Scan# 2949

Delta R.T. 0.00 min

Lab File: VU040871.D

Acq: 21 Oct 2020 13:54

Instrument :

MSVOA_U

ClientSampleId :

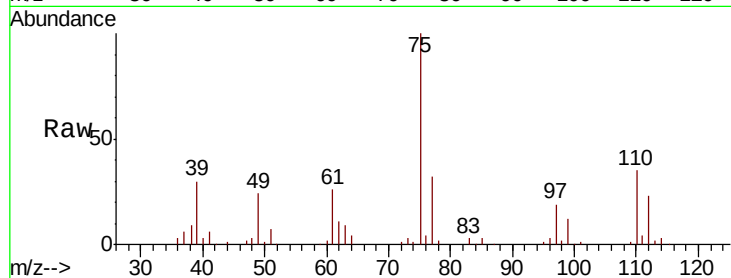
VSTD00522

Tot Ion: 75 Resp: 88242

Ion Ratio Lower Upper

75 100

77 31.7 27.5 41.3



Abundance Ion 75.00 (74.70 to 75.70): VU040867.D (-2937) (-)

Ion 77.00 (76.70 to 77.70): VU040867.D (-2937) (-)

10.82

60000

50000

40000

30000

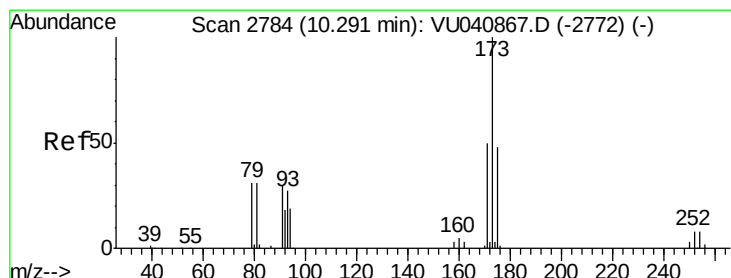
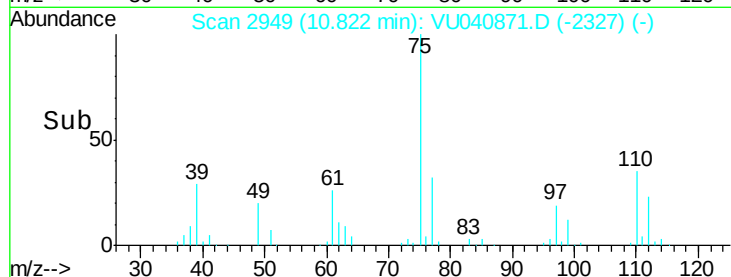
20000

10000

0

10.75 10.80 10.85 10.90

Time-->



#61

Bromoform

Concen: 5.368 ug/L

RT: 10.29 min Scan# 2784

Delta R.T. 0.00 min

Lab File: VU040871.D

Acq: 21 Oct 2020 13:54

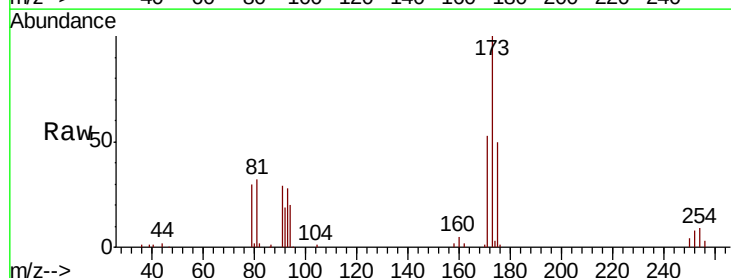
Tgt Ion: 173 Resp: 54931

Ion Ratio Lower Upper

173 100

175 47.5 39.0 58.6

254 8.5 6.9 10.3



Abundance Ion 172.90 (172.60 to 173.60): VU040867.D (-2772) (-)

Ion 174.90 (174.60 to 175.60): VU040867.D (-2772) (-)

Ion 253.75 (253.45 to 254.45): VU040867.D (-2772) (-)

10.29

40000

30000

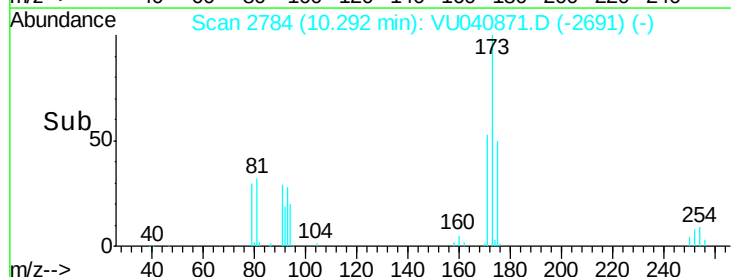
20000

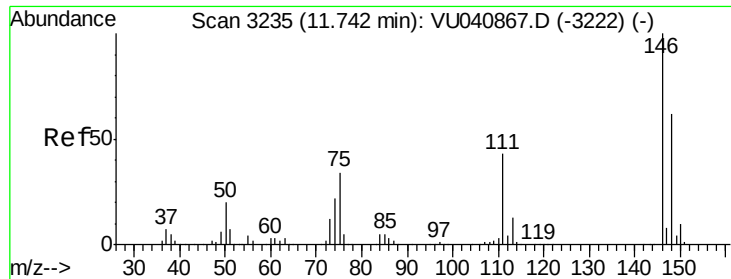
10000

0

10.25 10.30 10.35

Time-->





#62

1,3-Dichlorobenzene

Concen: 5.087 ug/L

RT: 11.74 min Scan# 3235

Delta R.T. 0.00 min

Lab File: VU040871.D

Acq: 21 Oct 2020 13:54

Instrument :

MSVOA_U

ClientSampleId :

VSTD00522

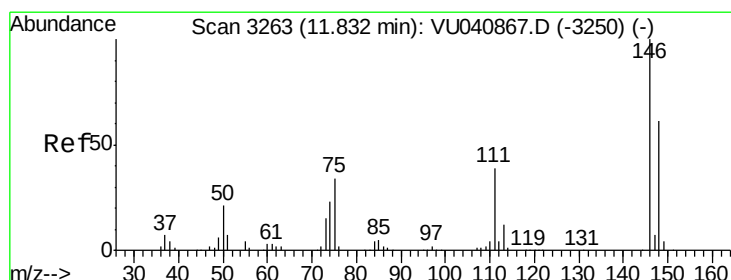
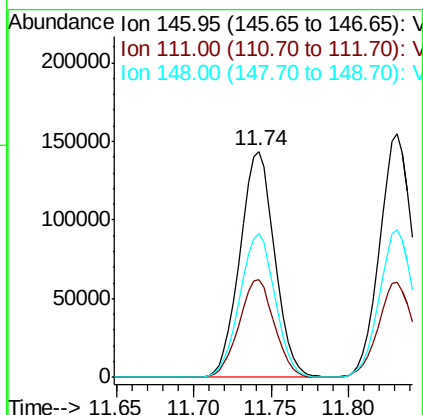
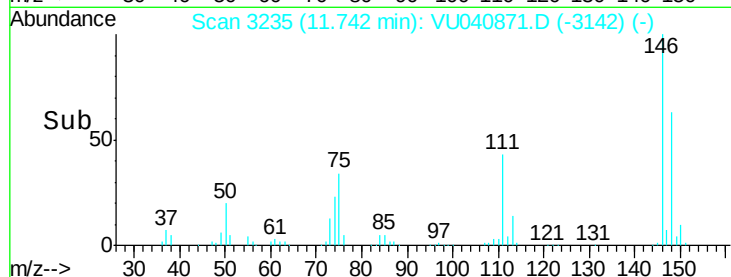
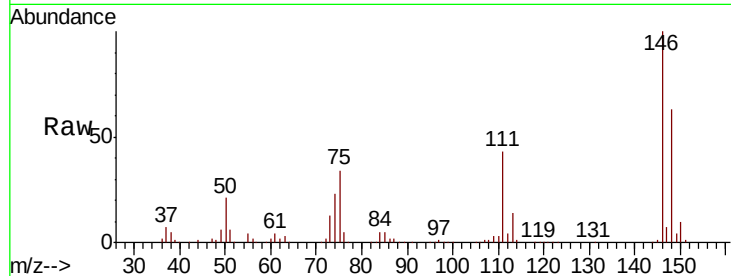
Tot Ion:146 Resp: 224966

Ion Ratio Lower Upper

146 100

111 43.4 30.2 56.2

148 63.4 43.7 81.1



#63

1,4-Dichlorobenzene

Concen: 5.144 ug/L

RT: 11.83 min Scan# 3263

Delta R.T. 0.00 min

Lab File: VU040871.D

Acq: 21 Oct 2020 13:54

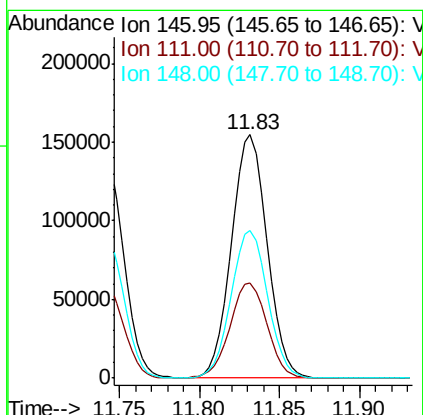
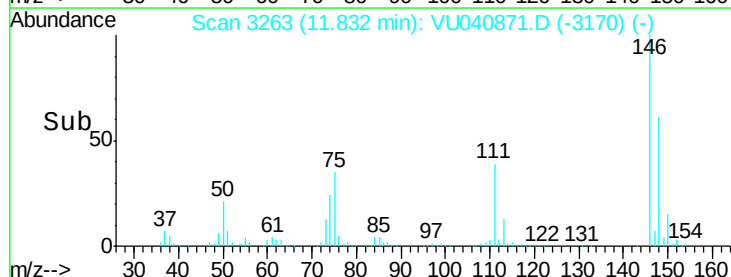
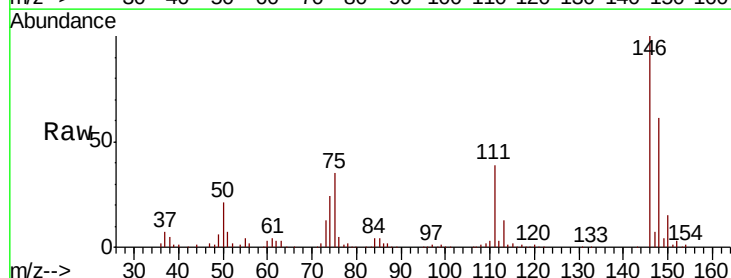
Tgt Ion:146 Resp: 233806

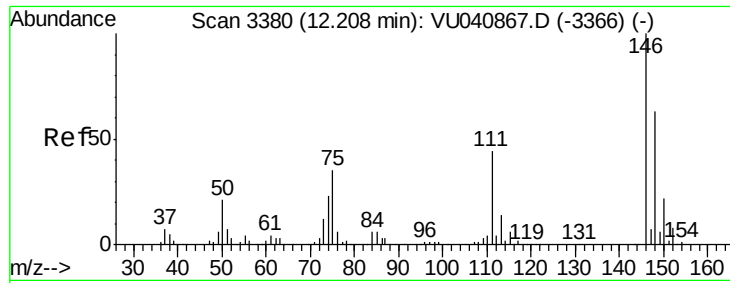
Ion Ratio Lower Upper

146 100

111 38.9 27.6 51.4

148 60.6 42.4 78.8

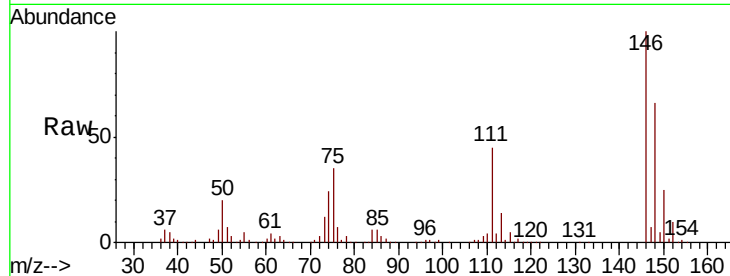




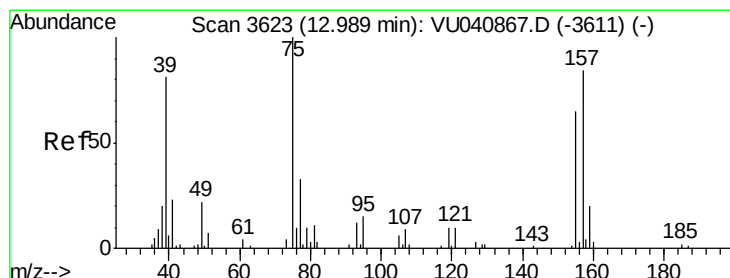
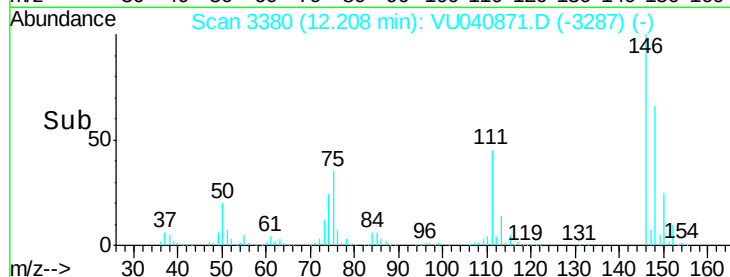
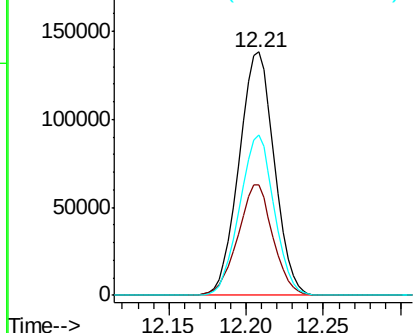
#65
 1,2-Dichlorobenzene
 Concen: 5.286 ug/L
 RT: 12.21 min Scan# 3380
 Delta R.T. 0.00 min
 Lab File: VU040871.D
 Acq: 21 Oct 2020 13:54

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00522

Tot Ion:146 Resp: 219378
 Ion Ratio Lower Upper
 146 100
 111 45.4 35.4 53.2
 148 65.7 50.7 76.1

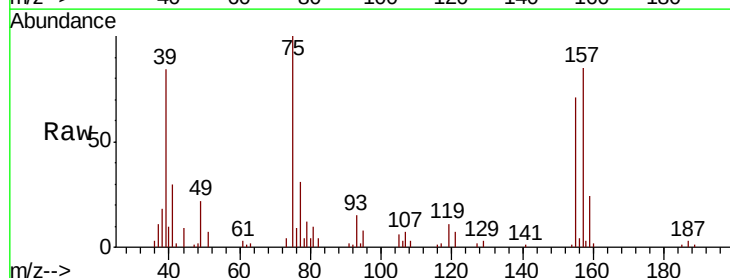


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

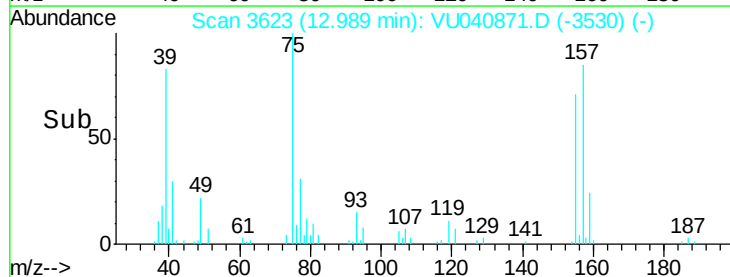
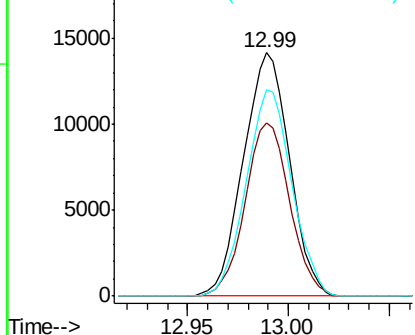


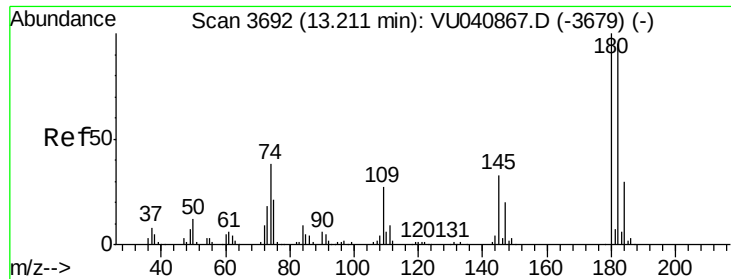
#66
 1,2-Dibromo-3-chloropropane
 Concen: 5.859 ug/L
 RT: 12.99 min Scan# 3623
 Delta R.T. 0.00 min
 Lab File: VU040871.D
 Acq: 21 Oct 2020 13:54

Tgt Ion: 75 Resp: 22628
 Ion Ratio Lower Upper
 75 100
 155 71.2 51.7 77.5
 157 84.7 66.9 100.3



Abundance Ion 75.05 (74.75 to 75.75): VU0
 Ion 154.95 (154.65 to 155.65): V
 Ion 156.90 (156.60 to 157.60): V

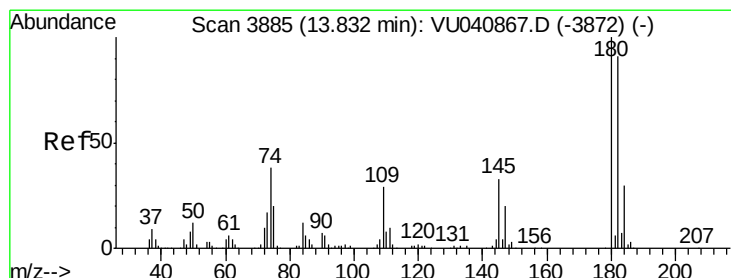
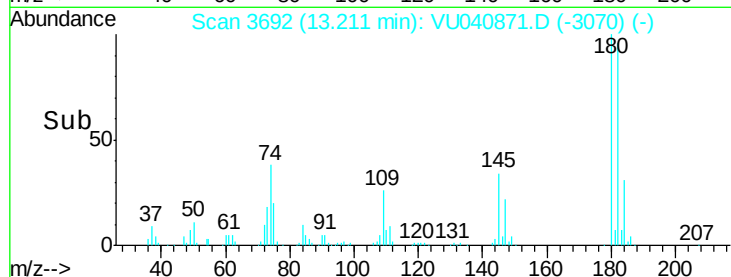
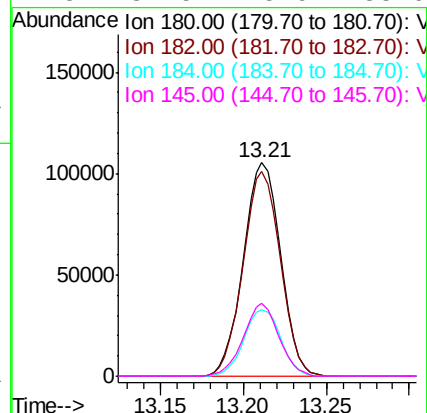
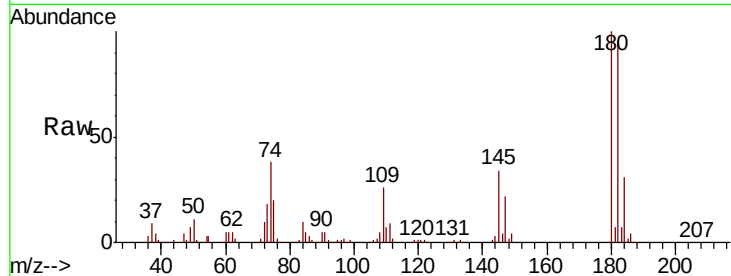




#67
 1,3,5-Trichlorobenzene
 Concen: 5.110 ug/L
 RT: 13.21 min Scan# 3692
 Delta R.T. 0.00 min
 Lab File: VU040871.D
 Acq: 21 Oct 2020 13:54

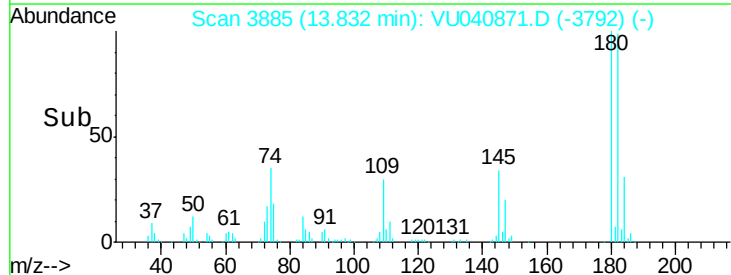
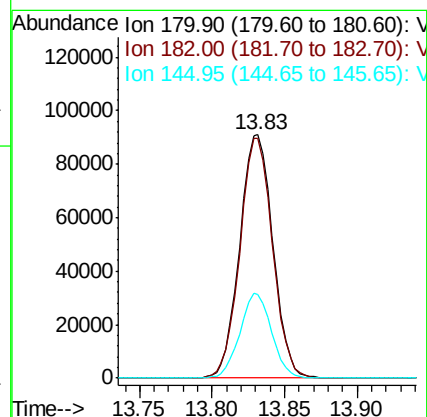
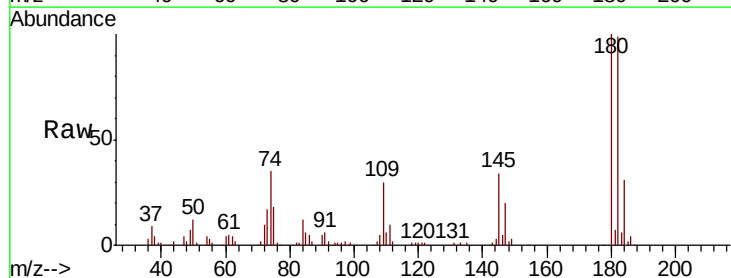
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00522

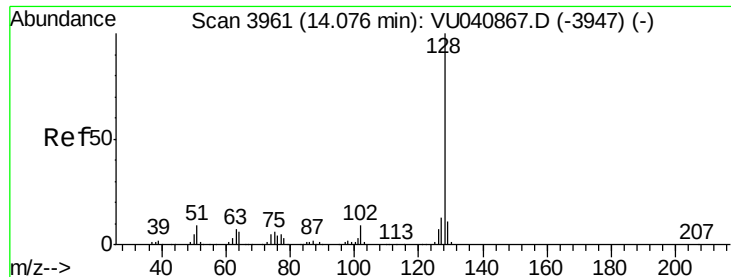
Tot Ion	Ratio	Lower	Upper
180	100		
182	95.7	77.6	116.4
184	30.9	24.7	37.1
145	32.5	25.9	38.9



#68
 1,2,4-trichlorobenzene
 Concen: 5.288 ug/L
 RT: 13.83 min Scan# 3885
 Delta R.T. 0.00 min
 Lab File: VU040871.D
 Acq: 21 Oct 2020 13:54

Tgt Ion	Ratio	Lower	Upper
180	100		
182	97.1	76.4	114.6
145	33.1	26.2	39.2





#69

Naphthalene

Concen: 5.692 ug/L

RT: 14.08 min Scan# 3961

Delta R.T. 0.00 min

Lab File: VU040871.D

Acq: 21 Oct 2020 13:54

Instrument :

MSVOA_U

ClientSampleId :

VSTD00522

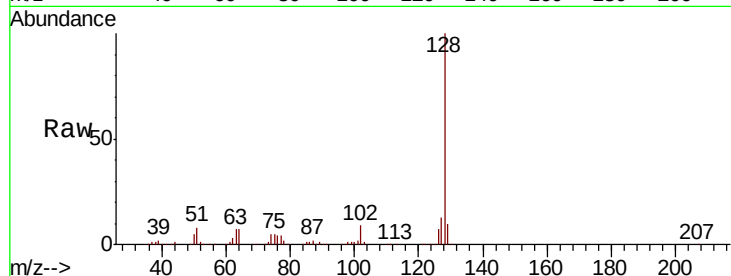
Tot Ion:128 Resp: 286666

Ion Ratio Lower Upper

128 100

129 11.0 8.9 13.3

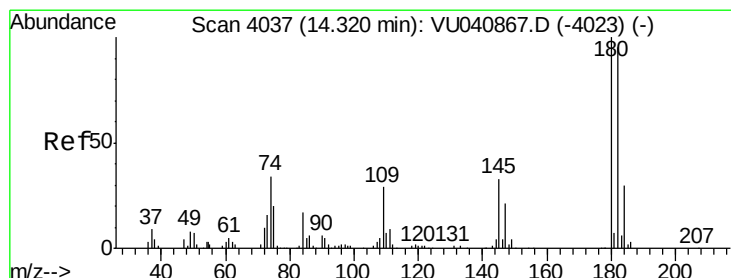
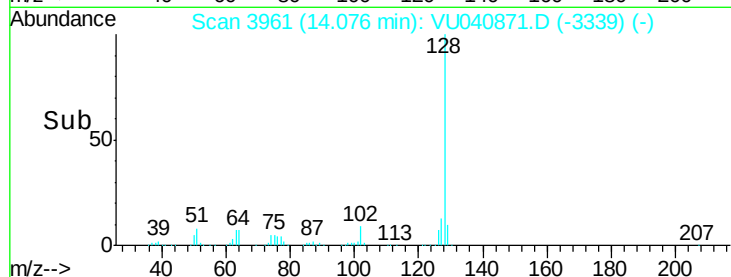
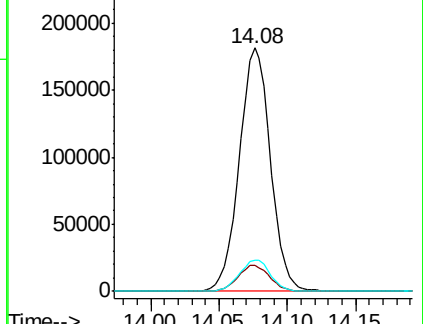
127 13.0 10.3 15.5



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 5.259 ug/L

RT: 14.32 min Scan# 4037

Delta R.T. 0.00 min

Lab File: VU040871.D

Acq: 21 Oct 2020 13:54

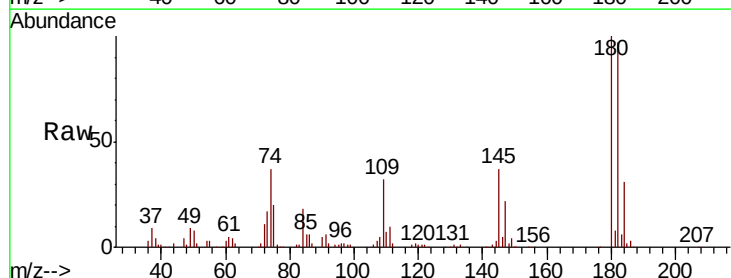
Tgt Ion:180 Resp: 139557

Ion Ratio Lower Upper

180 100

182 94.8 75.8 113.6

145 35.4 28.2 42.2



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

