

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU090220\
 Data File : VU040020.D
 Acq On : 02 Sep 2020 12:35
 Operator : SY/MD
 Sample : MDL05
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Sep 03 01:19:14 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR083120WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu Sep 03 01:16:12 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	118597	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	116746	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	54315	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	27346	4.22	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	84.40%
7) Chloroethane-d5	1.92	69	25813	4.79	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	95.80%
11) 1,1-Dichloroethene-d2	2.58	63	50828	3.06	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	61.20%
20) 2-Butanone-d5	4.66	46	134549	51.95	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	103.90%
24) Chloroform-d	5.08	84	65659	4.34	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	86.80%
26) 1,2-Dichloroethane-d4	5.72	65	42131	4.51	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	90.20%
32) Benzene-d6	5.75	84	122317	4.49	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	89.80%
36) 1,2-Dichloropropane-d6	6.70	67	40423	4.50	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	90.00%
41) Toluene-d8	7.91	98	106124	4.31	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	86.20%
43) trans-1,3-Dichloropropene-	8.19	79	17173	4.16	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	83.20%
46) 2-Hexanone-d5	8.64	63	96467	49.35	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	98.70%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	36886	4.75	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	95.00%
64) 1,2-Dichlorobenzene-d4	12.19	152	41997	4.78	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	95.60%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	2174	0.185 ug/L	94
3) Chloromethane	1.53	50	2619	0.232 ug/L	98
5) Vinyl chloride	1.61	62	2335	0.204 ug/L #	77
6) Bromomethane	1.87	94	1167	0.200 ug/L	95
8) Chloroethane	1.94	64	1649	0.240 ug/L	99
9) Trichlorofluoromethane	2.15	101	3296	0.201 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.59	101	2503	0.236 ug/L #	67
12) 1,1-Dichloroethene	2.59	96	2003	0.218 ug/L #	1
13) Acetone	2.67	43	3915	1.633 ug/L	75
14) Carbon disulfide	2.81	76	5419	0.184 ug/L	100
16) Methylene chloride	3.06	84	3992	0.332 ug/L	95
17) Methyl tert-butyl Ether	3.39	73	4918	0.178 ug/L #	92
18) trans-1,2-Dichloroethene	3.37	96	1746	0.177 ug/L	97
19) 1,1-Dichloroethane	3.89	63	3712	0.183 ug/L	90
21) 2-Butanone	4.74	43	8274	2.114 ug/L	79
22) cis-1,2-Dichloroethene	4.69	96	1949	0.184 ug/L	86
25) Chloroform	5.11	83	6525	0.314 ug/L	88

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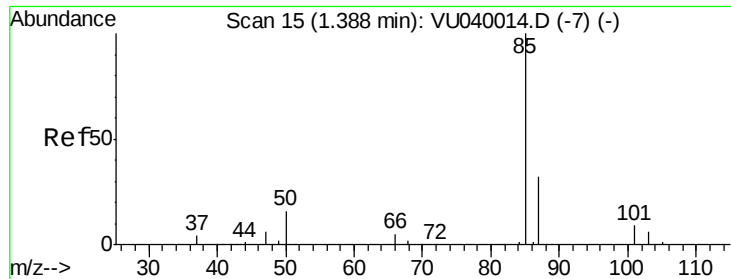
Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Sep 03 01:19:14 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR083120WMA.M
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

27) 1,2-Dichloroethane	5.81	62	3298	0.216	ug/L #	91
29) 1,1,1-Trichloroethane	5.34	97	3184	0.174	ug/L	96
30) Cyclohexane	5.40	56	3226	0.181	ug/L	99
31) Carbon tetrachloride	5.54	117	3122	0.199	ug/L	83
33) Benzene	5.79	78	7744	0.185	ug/L	100
34) Trichloroethene	6.55	95	2270	0.203	ug/L	92
35) Methylcyclohexane	6.77	83	3099	0.181	ug/L #	89
37) 1,2-Dichloropropane	6.80	63	2292	0.203	ug/L #	88
38) Bromodichloromethane	7.11	83	3106	0.201	ug/L #	92
39) cis-1,3-Dichloropropene	7.62	75	3024	0.181	ug/L	97
40) 4-Methyl-2-pentanone	7.80	43	16686	1.798	ug/L #	89
42) Toluene	7.98	91	8472	0.197	ug/L	96
44) trans-1,3-Dichloropropene	8.22	75	3040	0.197	ug/L #	40
45) 1,1,2-Trichloroethane	8.40	97	1681	0.204	ug/L	86
47) Tetrachloroethene	8.56	164	1444	0.196	ug/L	95
48) 2-Hexanone	8.69	43	15412	2.277	ug/L	97
49) Dibromochloromethane	8.82	129	1699	0.172	ug/L	90
50) 1,2-Dibromoethane	8.93	107	1452	0.183	ug/L #	98
51) Chlorobenzene	9.45	112	5189	0.194	ug/L	95
52) Ethylbenzene	9.57	91	8760	0.179	ug/L	87
53) m,p-Xylene	9.69	106	3075	0.177	ug/L	91
54) o-Xylene	10.10	106	2827	0.171	ug/L	92
55) Styrene	10.11	104	4708	0.163	ug/L	99
56) Isopropylbenzene	10.48	105	7718	0.171	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.78	83	2353	0.223	ug/L	94
59) 1,2,3-Trichloropropane	11.81	75	10799	1.289	ug/L	99
61) Bromoform	10.29	173	993	0.199	ug/L #	95
62) 1,3-Dichlorobenzene	11.74	146	4058	0.204	ug/L	92
63) 1,4-Dichlorobenzene	11.83	146	4402	0.219	ug/L	87
65) 1,2-Dichlorobenzene	12.20	146	4010	0.209	ug/L	90
66) 1,2-Dibromo-3-chloropropan	13.00	75	325	0.158	ug/L	95
67) 1,3,5-Trichlorobenzene	13.83	180	2297	0.165	ug/L	95
68) 1,2,4-trichlorobenzene	13.83	180	2297	0.191	ug/L	93
69) Naphthalene	14.08	128	3678	0.147	ug/L #	92
70) 1,2,3-Trichlorobenzene	14.32	180	2066	0.187	ug/L	85

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



#2

Dichlorodifluoromethane

Concen: 0.185 ug/L

RT: 1.39 min Scan# 15

Delta R.T. 0.00 min

Lab File: VU040020.D

Acq: 02 Sep 2020 12:35

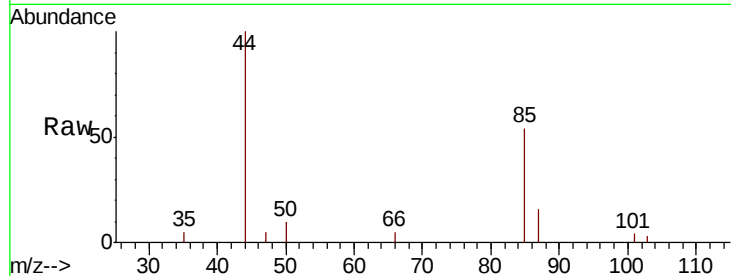
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 85 Resp: 2174

Ion Ratio Lower Upper

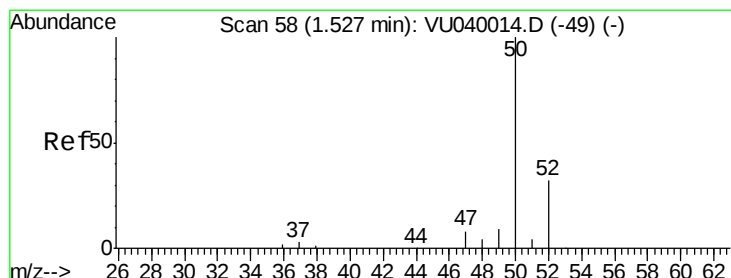
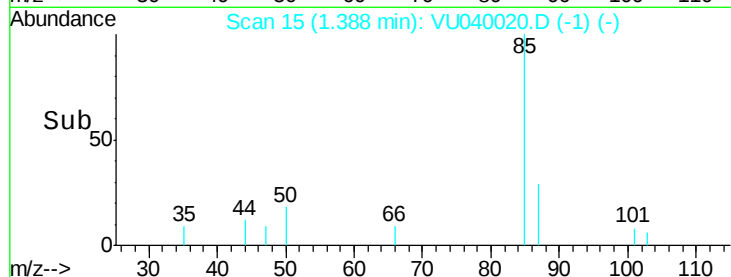
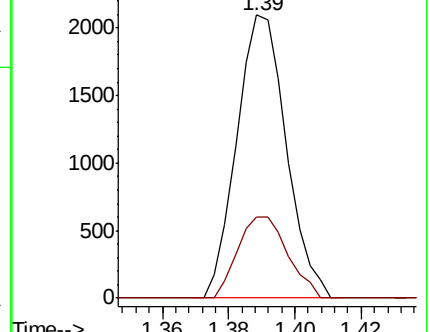
85 100

87 28.9 25.9 38.9



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 0.232 ug/L

RT: 1.53 min Scan# 58

Delta R.T. 0.00 min

Lab File: VU040020.D

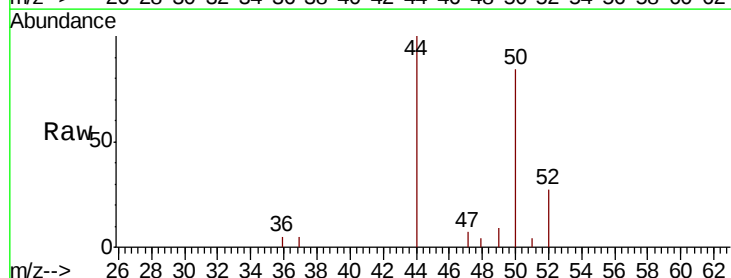
Acq: 02 Sep 2020 12:35

Tgt Ion: 50 Resp: 2619

Ion Ratio Lower Upper

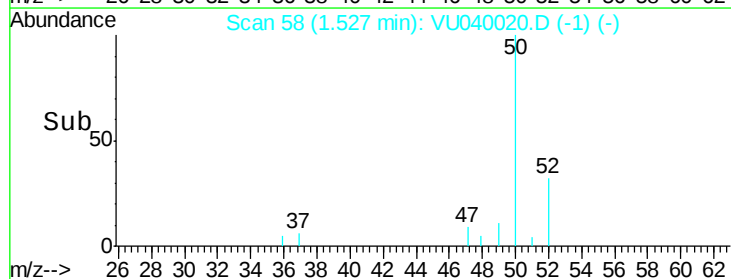
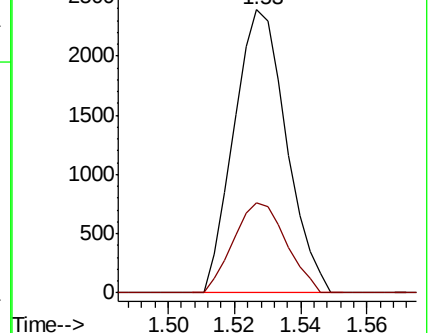
50 100

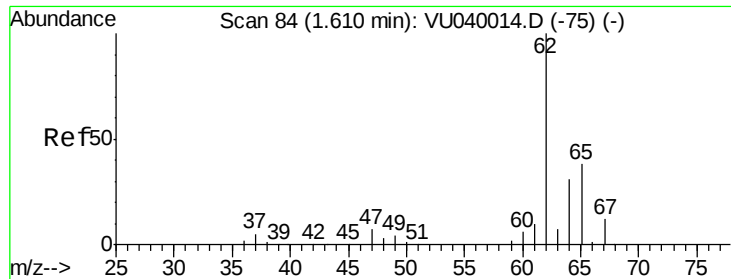
52 31.6 22.8 42.4



Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0





#5

Vinyl chloride

Concen: 0.204 ug/L

RT: 1.61 min Scan# 84

Delta R.T. 0.00 min

Lab File: VU040020.D

Acq: 02 Sep 2020 12:35

Instrument :

MSVOA_U

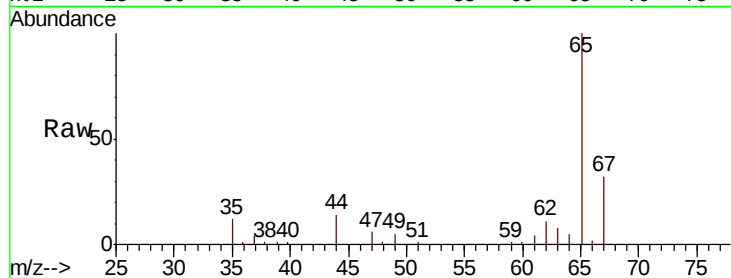
ClientSampled :

Tot Ion: 62 Resp: 2335

Ion Ratio Lower Upper

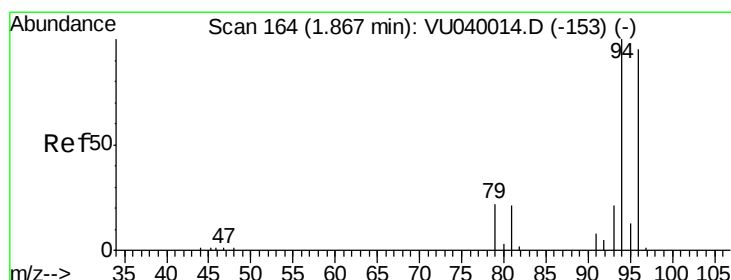
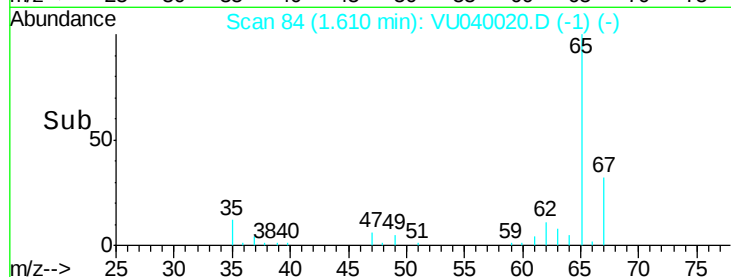
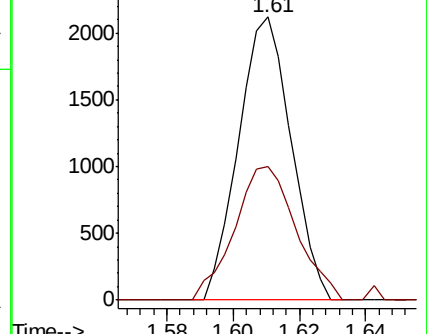
62 100

64 47.1 23.9 44.3#



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0



#6

Bromomethane

Concen: 0.200 ug/L

RT: 1.87 min Scan# 164

Delta R.T. 0.00 min

Lab File: VU040020.D

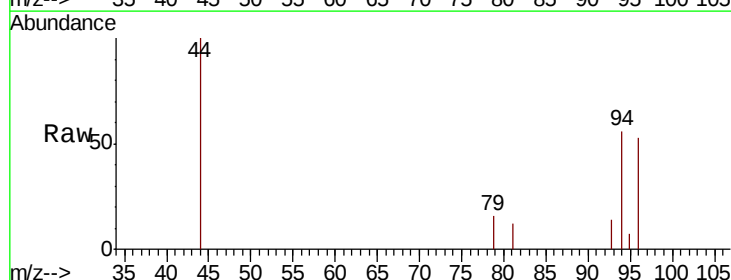
Acq: 02 Sep 2020 12:35

Tgt Ion: 94 Resp: 1167

Ion Ratio Lower Upper

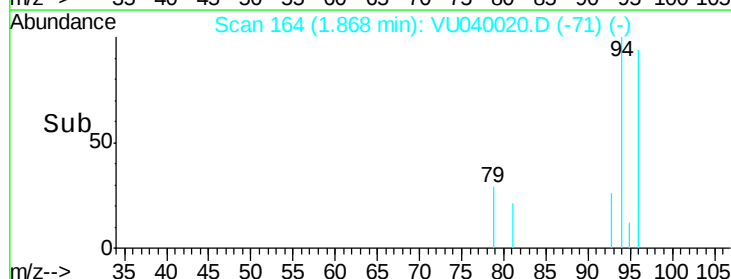
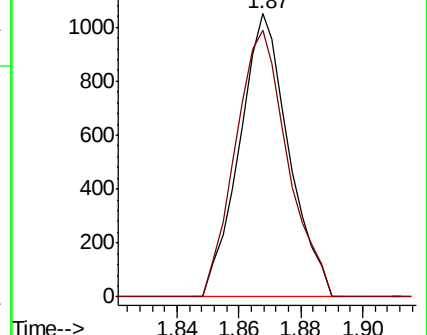
94 100

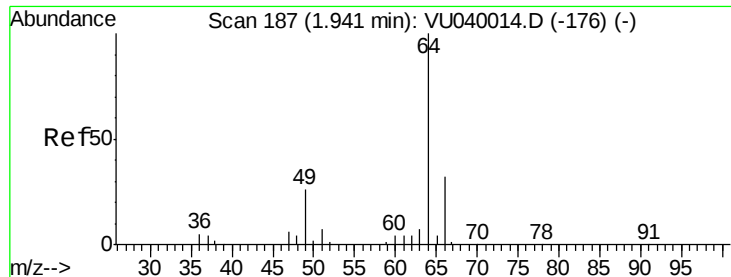
96 94.1 62.3 115.7



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0





#8

Chloroethane

Concen: 0.240 ug/L

RT: 1.94 min Scan# 188

Delta R.T. 0.00 min

Lab File: VU040020.D

Acq: 02 Sep 2020 12:35

Instrument :

MSVOA_U

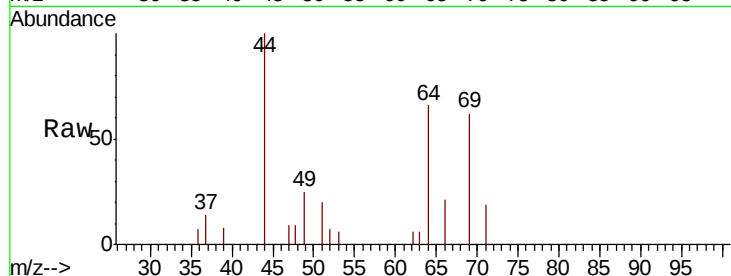
ClientSampleId :

Tot Ion: 64 Resp: 1649

Ion Ratio Lower Upper

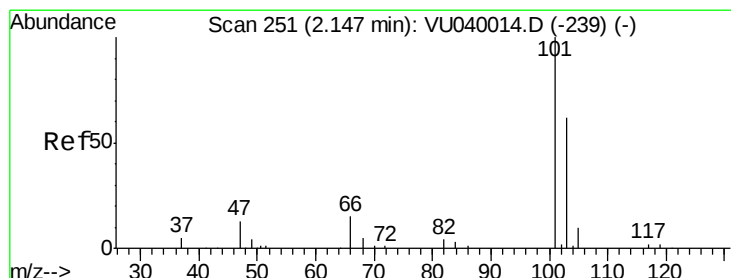
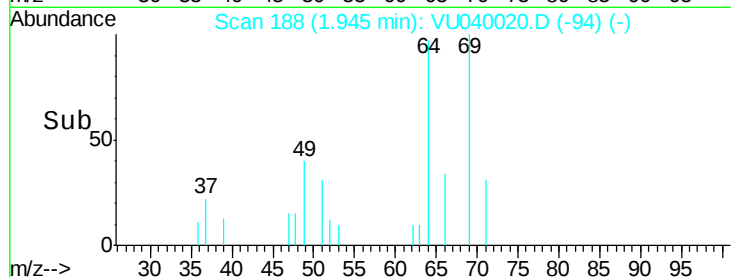
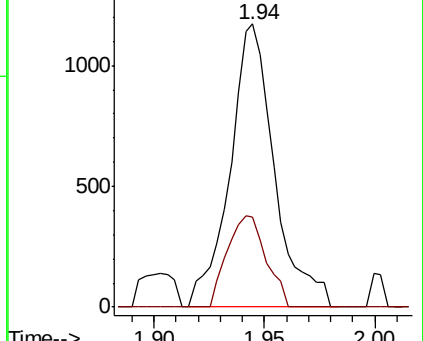
64 100

66 31.8 22.7 42.1



Abundance Ion 64.10 (63.80 to 64.80): VU040014.D (-176) (-)

Ion 66.05 (65.75 to 66.75): VU040014.D (-176) (-)



#9

Trichlorofluoromethane

Concen: 0.201 ug/L

RT: 2.15 min Scan# 252

Delta R.T. 0.00 min

Lab File: VU040020.D

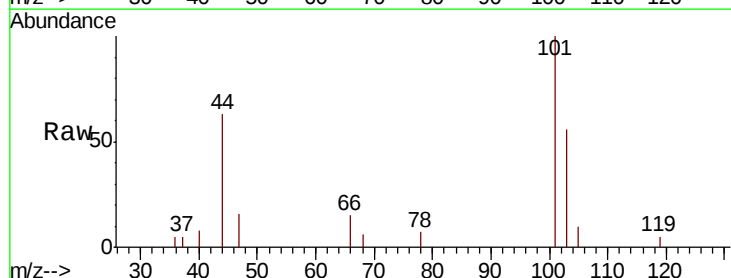
Acq: 02 Sep 2020 12:35

Tgt Ion: 101 Resp: 3296

Ion Ratio Lower Upper

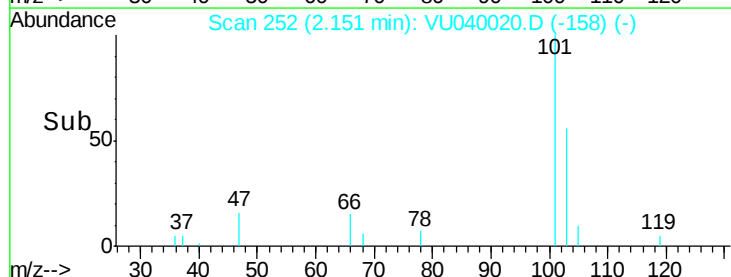
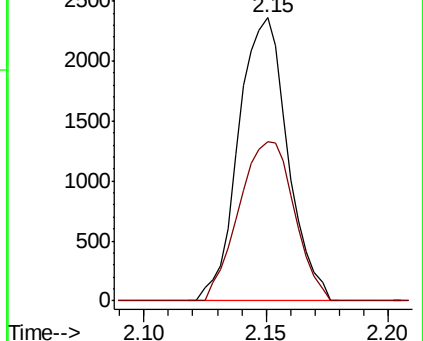
101 100

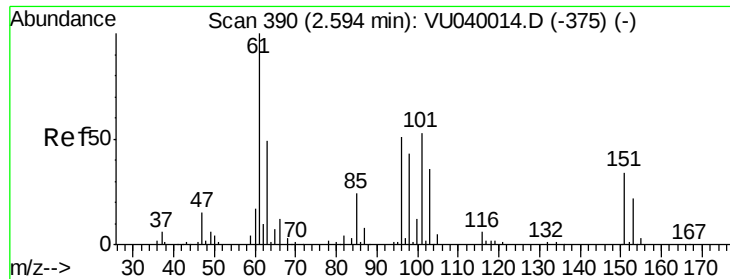
103 63.5 51.3 76.9



Abundance Ion 101.00 (100.70 to 101.70): VU040014.D (-239) (-)

Ion 103.00 (102.70 to 103.70): VU040014.D (-239) (-)





#10

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

Concen: 0.236 ug/L

RT: 2.59 min Scan# 390

Delta R.T. 0.00 min

Lab File: VU040020.D

Acq: 02 Sep 2020 12:35

Instrument :

MSVOA_U

ClientSampled :

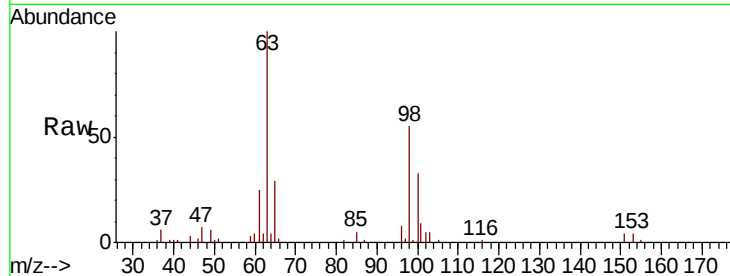
Tot Ion:101 Resp: 2503

Ion Ratio Lower Upper

101 100

85 43.8 37.7 56.5

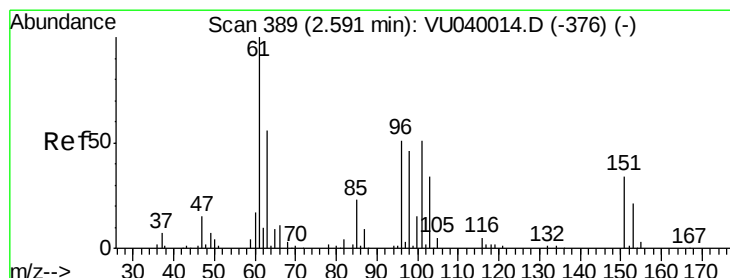
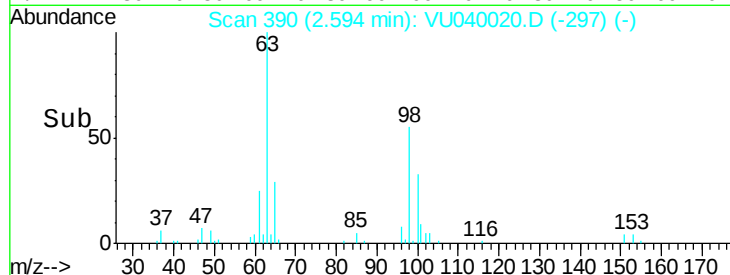
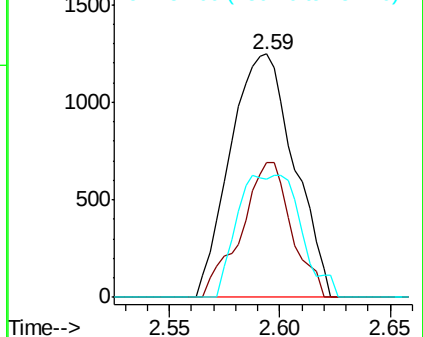
151 25.6 53.9 80.9#



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: 0.218 ug/L

RT: 2.59 min Scan# 389

Delta R.T. 0.00 min

Lab File: VU040020.D

Acq: 02 Sep 2020 12:35

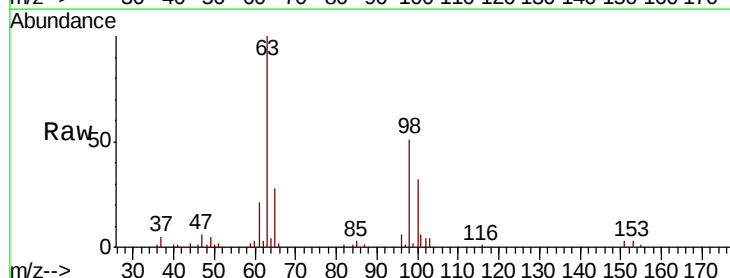
Tgt Ion: 96 Resp: 2003

Ion Ratio Lower Upper

96 100

61 348.9 138.3 256.8#

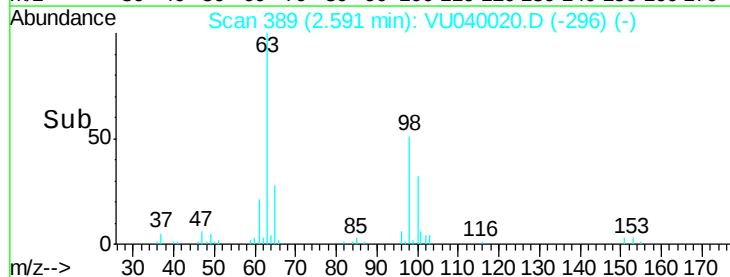
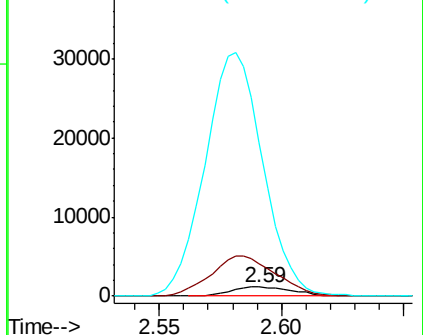
63 1692.4 77.6 144.2#

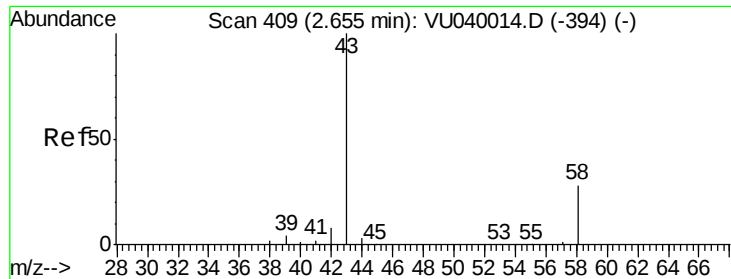


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 1.633 ug/L

RT: 2.67 min Scan# 414

Delta R.T. 0.02 min

Lab File: VU040020.D

Acq: 02 Sep 2020 12:35

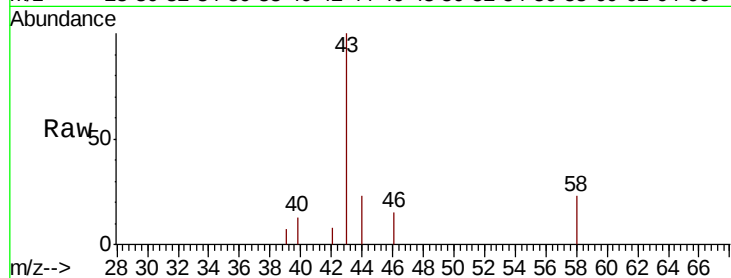
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 43 Resp: 3915

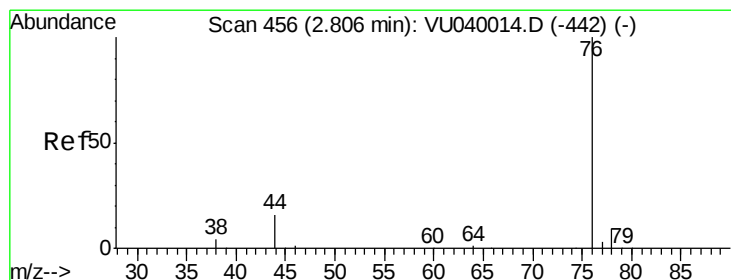
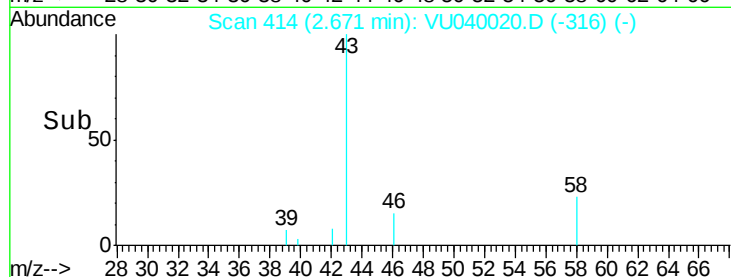
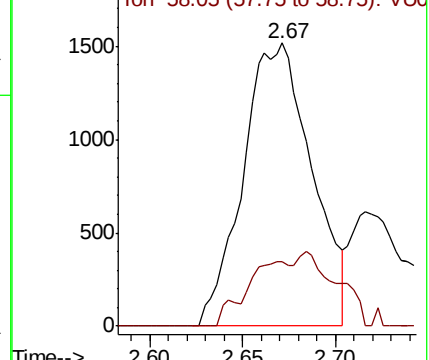
Ion Ratio Lower Upper

43 100

58 14.5 0.0 55.4



Abundance Ion 43.05 (42.75 to 43.75): VU040020.D (-316) (-)



#14

Carbon disulfide

Concen: 0.184 ug/L

RT: 2.81 min Scan# 457

Delta R.T. 0.00 min

Lab File: VU040020.D

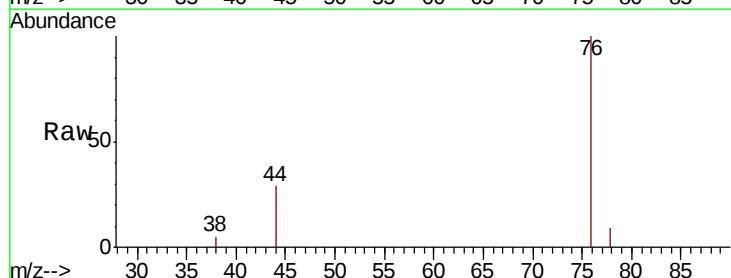
Acq: 02 Sep 2020 12:35

Tgt Ion: 76 Resp: 5419

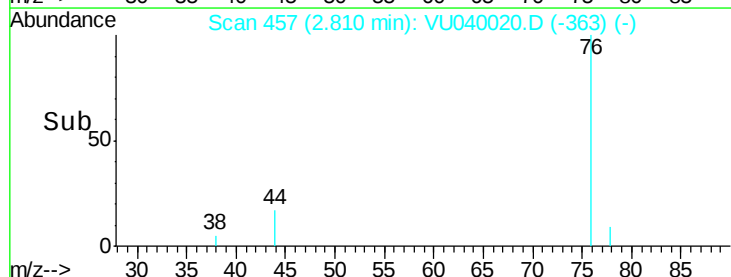
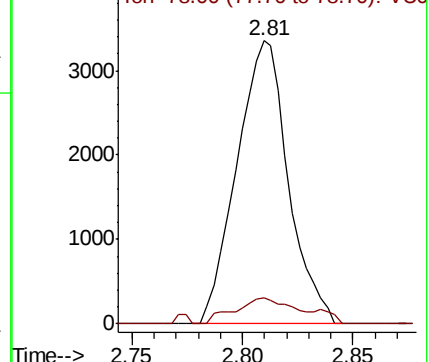
Ion Ratio Lower Upper

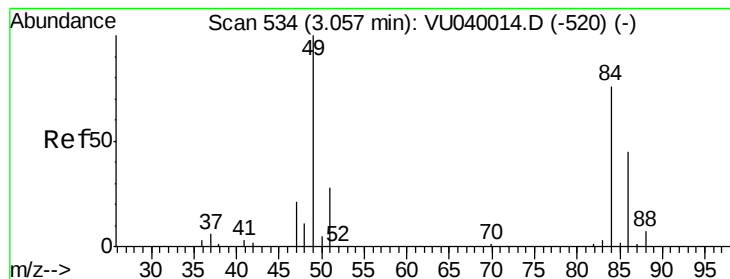
76 100

78 9.1 7.2 10.8



Abundance Ion 76.05 (75.75 to 76.75): VU040020.D (-363) (-)





#16

Methylene chloride

Concen: 0.332 ug/L

RT: 3.06 min Scan# 536

Delta R.T. 0.01 min

Lab File: VU040020.D

Acq: 02 Sep 2020 12:35

Instrument :

MSVOA_U

ClientSampleId :

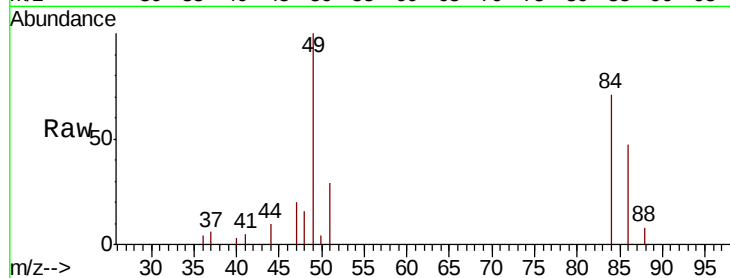
Tot Ion: 84 Resp: 3992

Ion Ratio Lower Upper

84 100

86 66.6 45.2 84.0

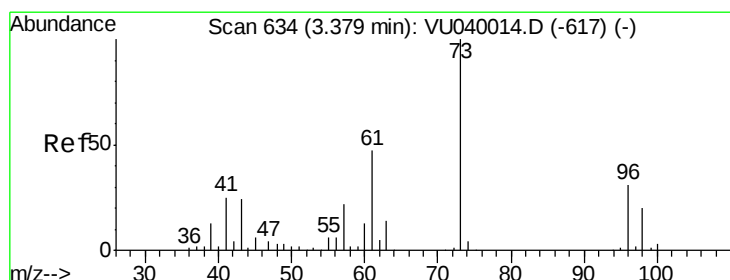
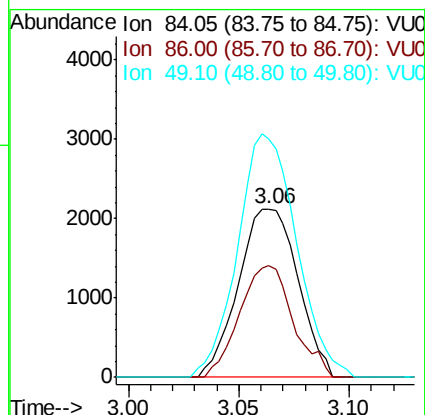
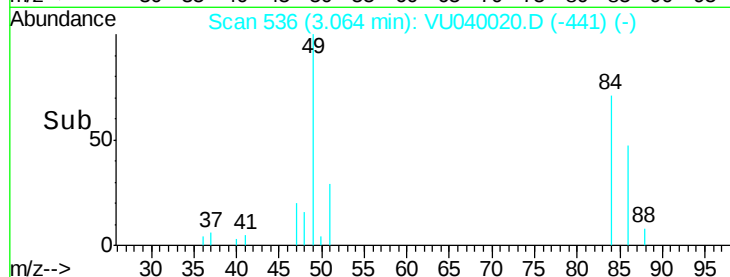
49 141.7 104.0 193.2



Abundance Ion 84.05 (83.75 to 84.75): VU040020.D (-441) (-)

Ion 86.00 (85.70 to 86.70): VU040020.D (-441) (-)

Ion 49.10 (48.80 to 49.80): VU040020.D (-441) (-)



#17

Methyl tert-butyl Ether

Concen: 0.178 ug/L

RT: 3.39 min Scan# 637

Delta R.T. 0.01 min

Lab File: VU040020.D

Acq: 02 Sep 2020 12:35

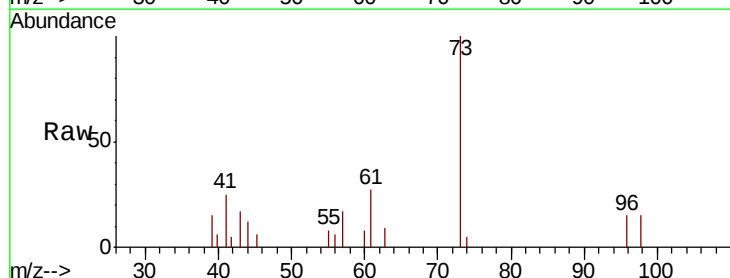
Tgt Ion: 73 Resp: 4918

Ion Ratio Lower Upper

73 100

43 16.5 19.1 28.7#

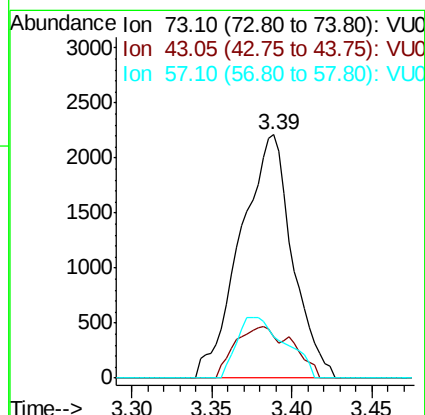
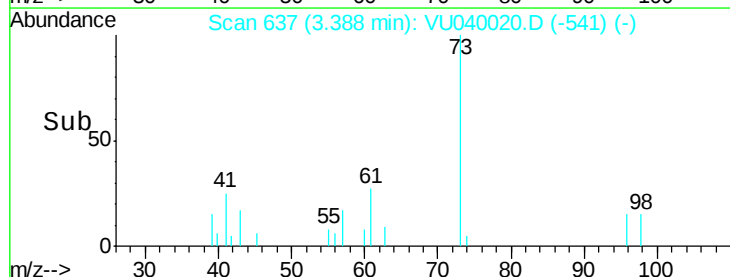
57 23.1 18.3 27.5

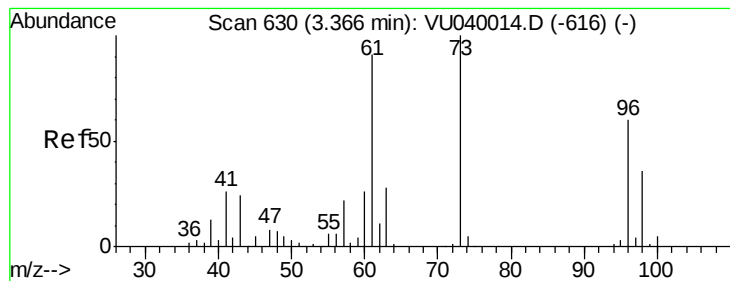


Abundance Ion 73.10 (72.80 to 73.80): VU040020.D (-541) (-)

Ion 43.05 (42.75 to 43.75): VU040020.D (-541) (-)

Ion 57.10 (56.80 to 57.80): VU040020.D (-541) (-)





#18

trans-1,2-Dichloroethene

Concen: 0.177 ug/L

RT: 3.37 min Scan# 632

Delta R.T. 0.01 min

Lab File: VU040020.D

Acq: 02 Sep 2020 12:35

Instrument :

MSVOA_U

ClientSampleId :

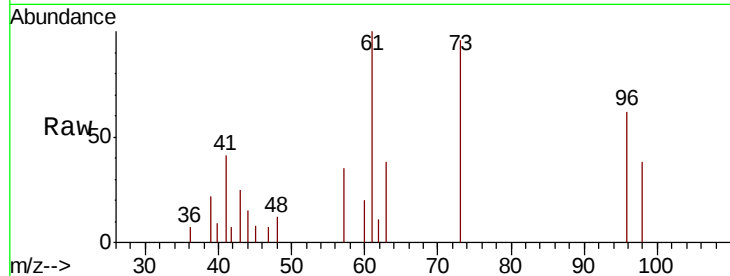
Tot Ion: 96 Resp: 1746

Ion Ratio Lower Upper

96 100

61 162.4 110.5 205.3

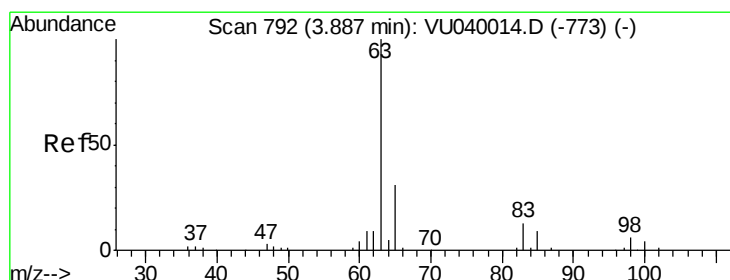
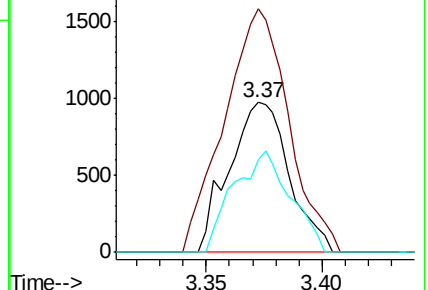
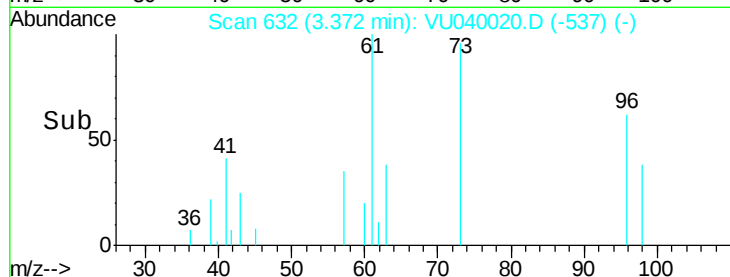
98 61.6 43.2 80.2



Abundance Ion 96.00 (95.70 to 96.70): VU040020.D (-537) (-)

Ion 61.05 (60.75 to 61.75): VU040020.D (-537) (-)

Ion 97.95 (97.65 to 98.65): VU040020.D (-537) (-)



#19

1,1-Dichloroethane

Concen: 0.183 ug/L

RT: 3.89 min Scan# 793

Delta R.T. 0.00 min

Lab File: VU040020.D

Acq: 02 Sep 2020 12:35

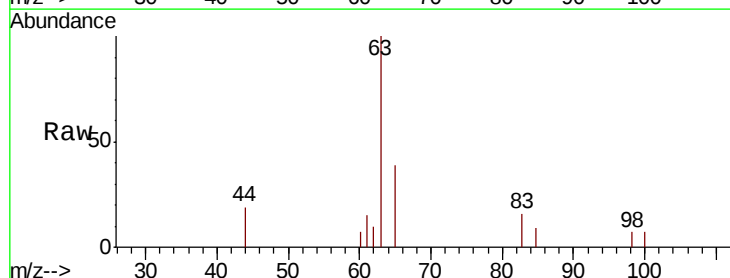
Tgt Ion: 63 Resp: 3712

Ion Ratio Lower Upper

63 100

65 38.6 22.2 41.2

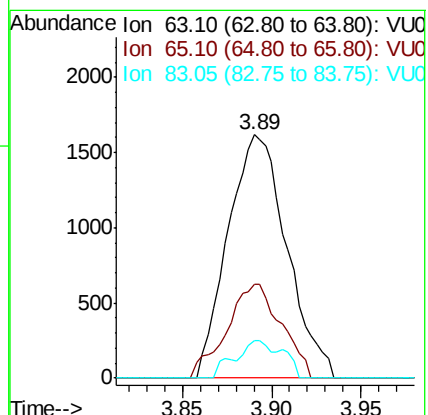
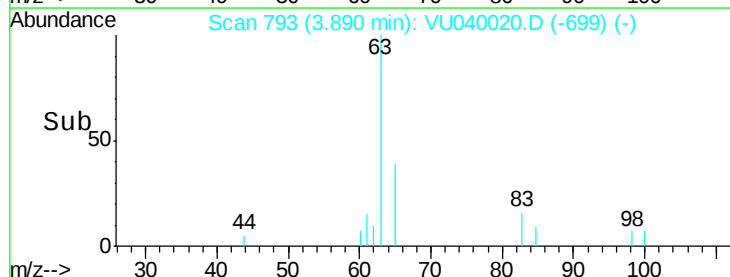
83 15.6 9.4 17.6

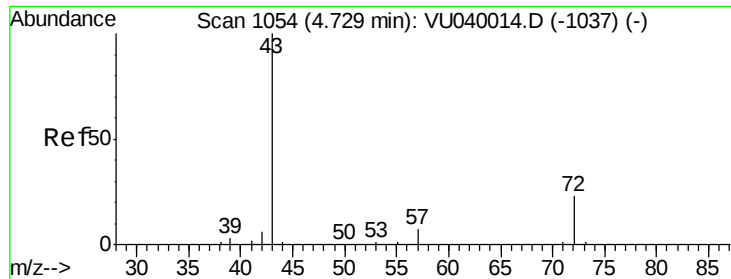


Abundance Ion 63.10 (62.80 to 63.80): VU040020.D (-699) (-)

Ion 65.10 (64.80 to 65.80): VU040020.D (-699) (-)

Ion 83.05 (82.75 to 83.75): VU040020.D (-699) (-)





#21

2-Butanone

Concen: 2.114 ug/L

RT: 4.74 min Scan# 1058

Delta R.T. 0.01 min

Lab File: VU040020.D

Acq: 02 Sep 2020 12:35

Instrument :

MSVOA_U

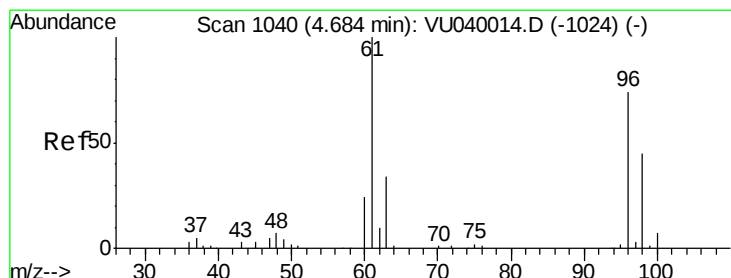
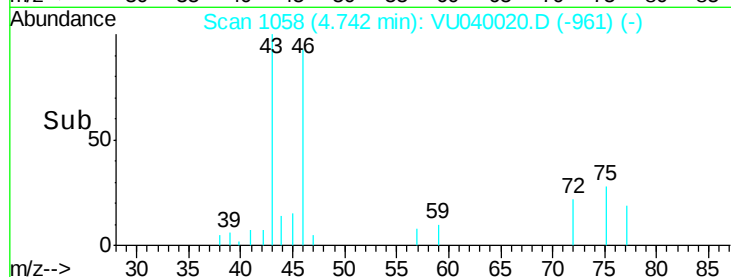
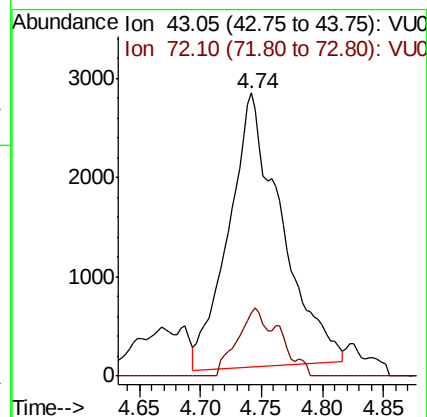
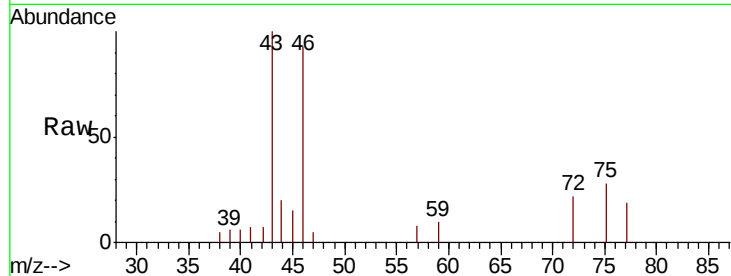
ClientSampled :

Tot Ion: 43 Resp: 8274

Ion Ratio Lower Upper

43 100

72 13.1 11.7 35.0



#22

cis-1,2-Dichloroethene

Concen: 0.184 ug/L

RT: 4.69 min Scan# 1043

Delta R.T. 0.01 min

Lab File: VU040020.D

Acq: 02 Sep 2020 12:35

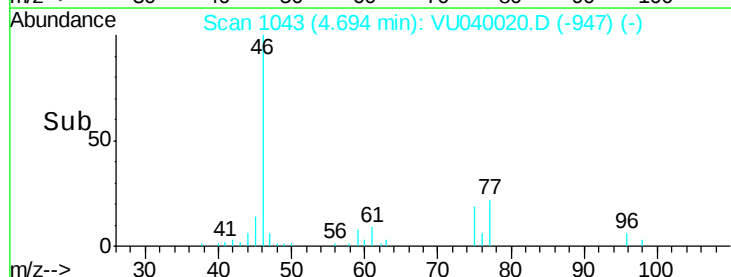
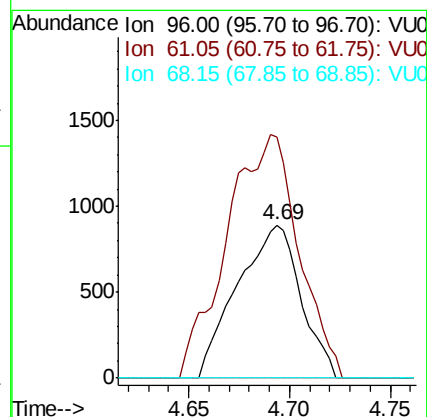
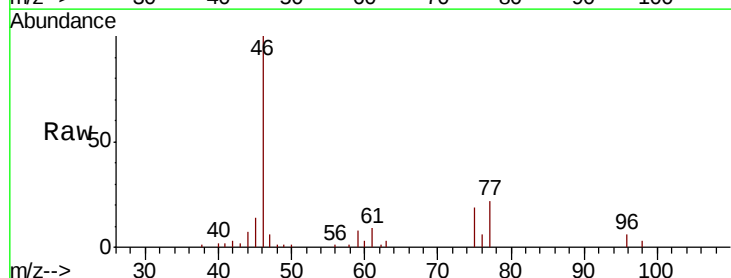
Tgt Ion: 96 Resp: 1949

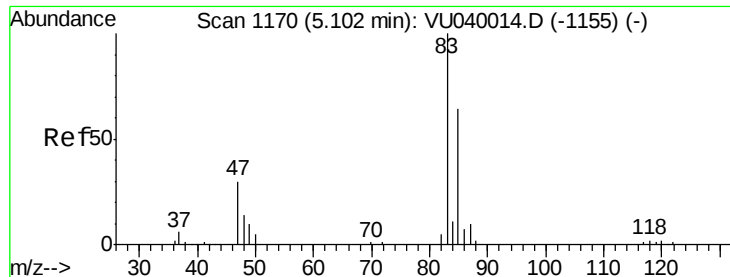
Ion Ratio Lower Upper

96 100

61 157.8 98.8 183.4

68 0.0 0.0 0.0

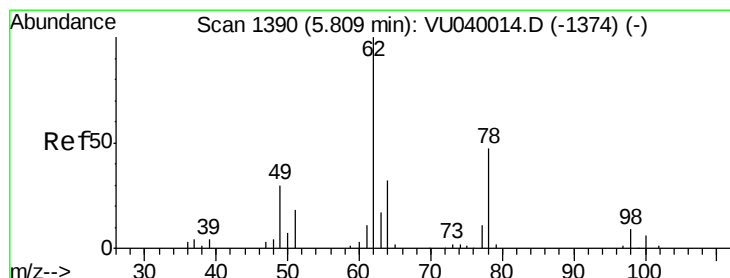
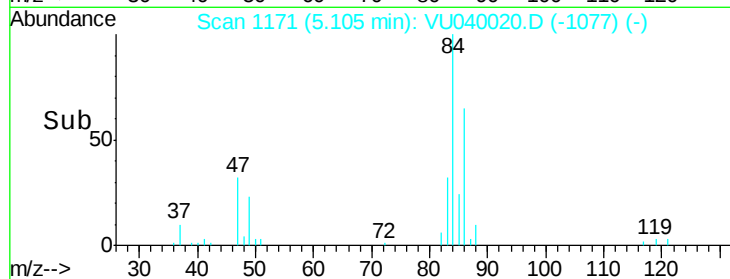
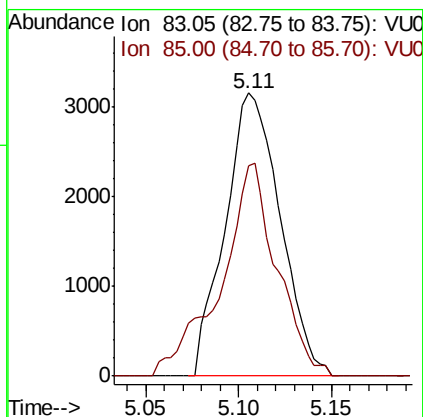
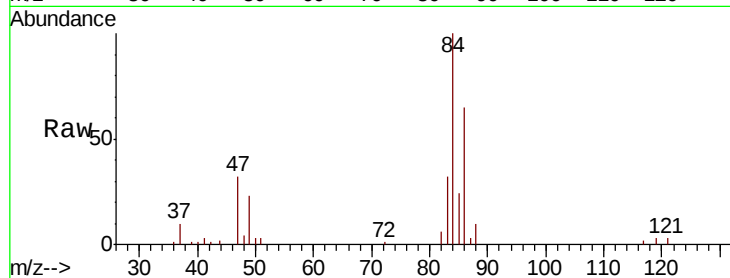




#25
Chloroform
Concen: 0.314 ug/L
RT: 5.11 min Scan# 1171
Delta R.T. 0.00 min
Lab File: VU040020.D
Acq: 02 Sep 2020 12:35

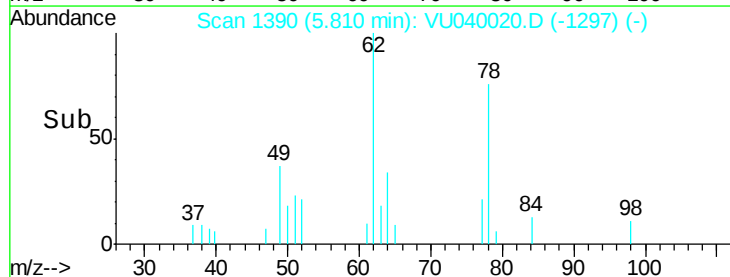
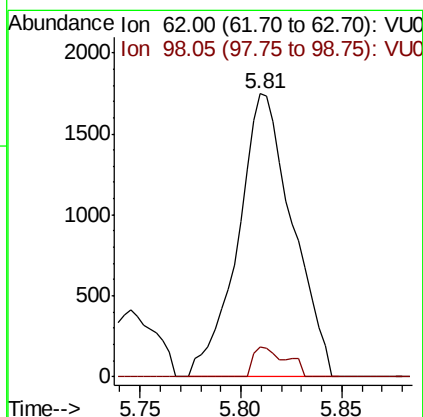
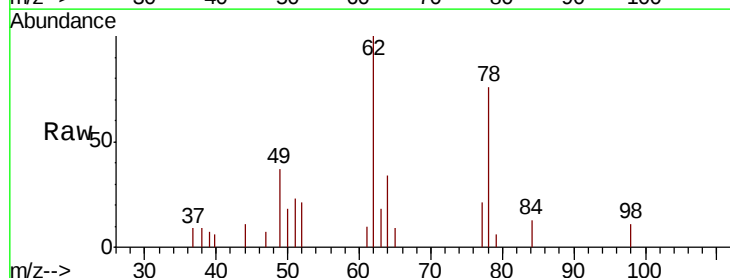
Instrument :
MSVOA_U
ClientSampleId :

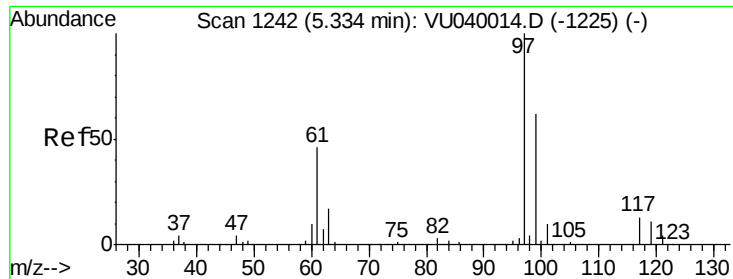
Tot Ion: 83 Resp: 6525
Ion Ratio Lower Upper
83 100
85 74.2 45.3 84.1



#27
1,2-Dichloroethane
Concen: 0.216 ug/L
RT: 5.81 min Scan# 1390
Delta R.T. 0.00 min
Lab File: VU040020.D
Acq: 02 Sep 2020 12:35

Tgt Ion: 62 Resp: 3298
Ion Ratio Lower Upper
62 100
98 10.6 6.1 9.1#

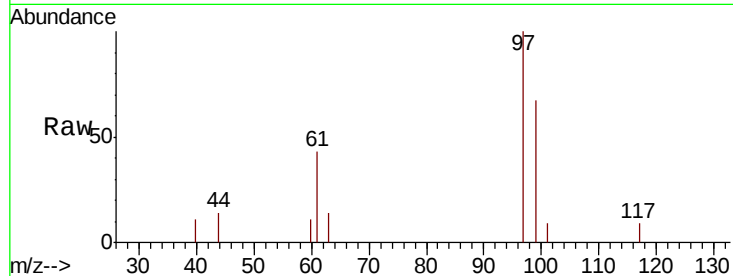




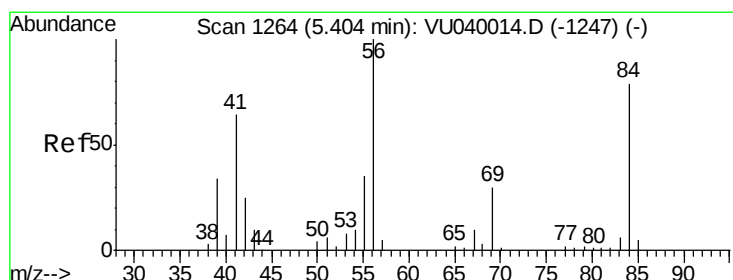
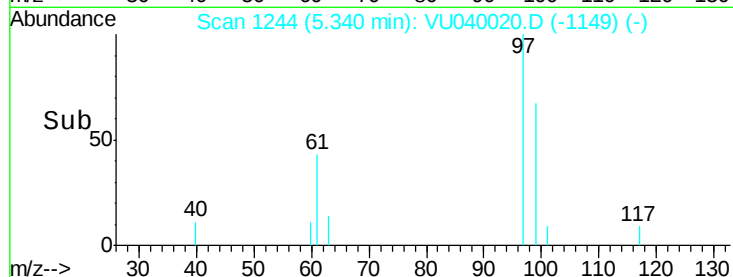
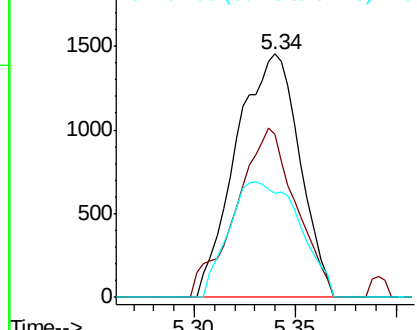
#29
 1,1,1-Trichloroethane
 Concen: 0.174 ug/L
 RT: 5.34 min Scan# 1244
 Delta R.T. 0.01 min
 Lab File: VU040020.D
 Acq: 02 Sep 2020 12:35

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 97 Resp: 3184
 Ion Ratio Lower Upper
 97 100
 99 65.5 50.9 76.3
 61 52.9 39.5 59.3

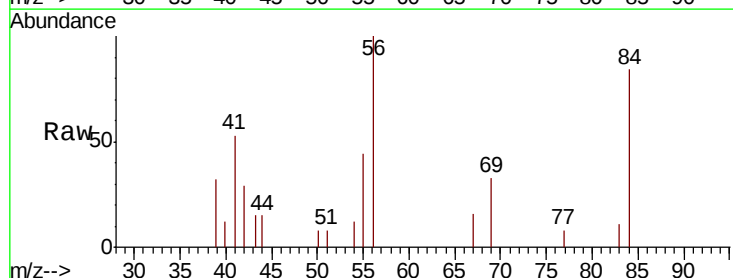


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 61.05 (60.75 to 61.75): VU0

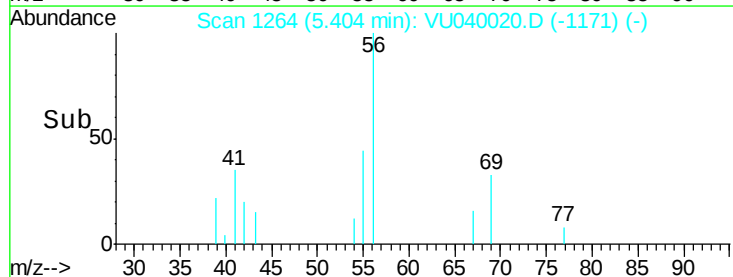
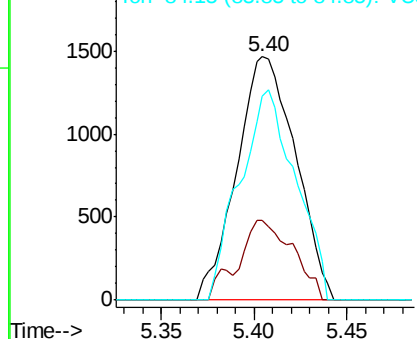


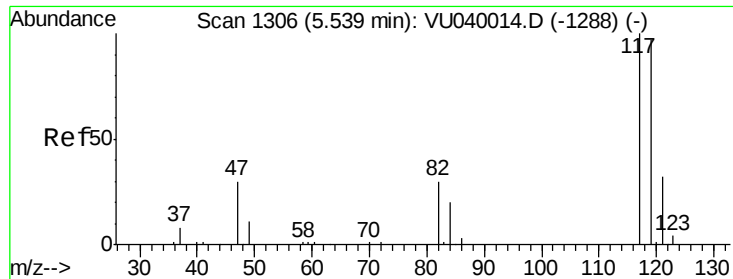
#30
 Cyclohexane
 Concen: 0.181 ug/L
 RT: 5.40 min Scan# 1264
 Delta R.T. 0.00 min
 Lab File: VU040020.D
 Acq: 02 Sep 2020 12:35

Tgt Ion: 56 Resp: 3226
 Ion Ratio Lower Upper
 56 100
 69 30.3 24.1 36.1
 84 82.3 65.0 97.4



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

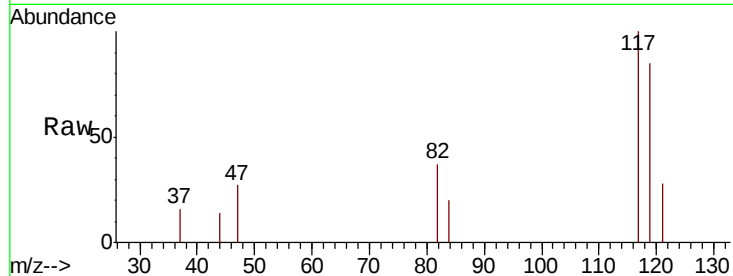




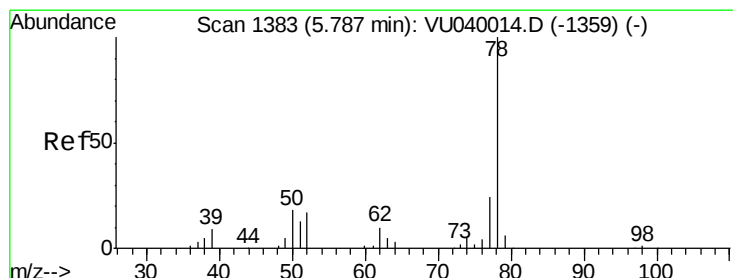
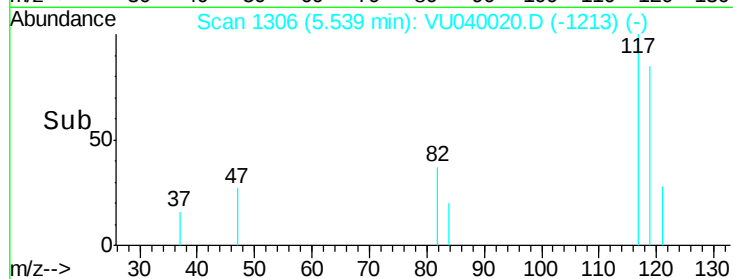
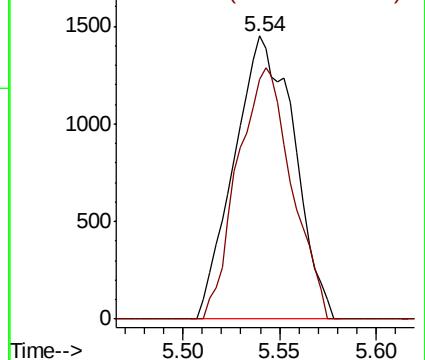
#31
Carbon tetrachloride
Concen: 0.199 ug/L
RT: 5.54 min Scan# 1306
Delta R.T. 0.00 min
Lab File: VU040020.D
Acq: 02 Sep 2020 12:35

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:117 Resp: 3122
Ion Ratio Lower Upper
117 100
119 80.3 77.7 116.5

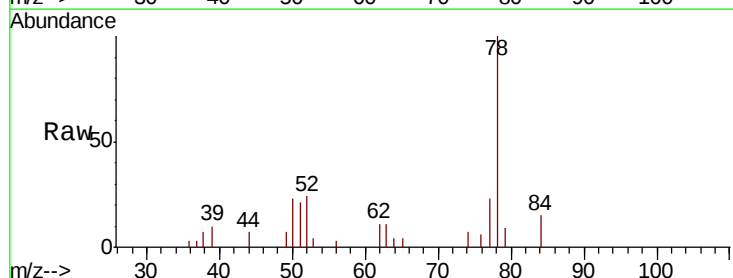


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 118.90 (118.60 to 119.60): V

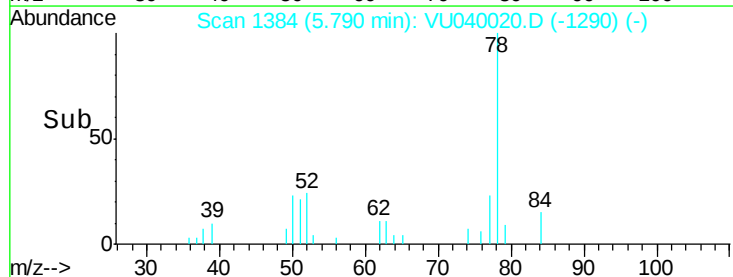
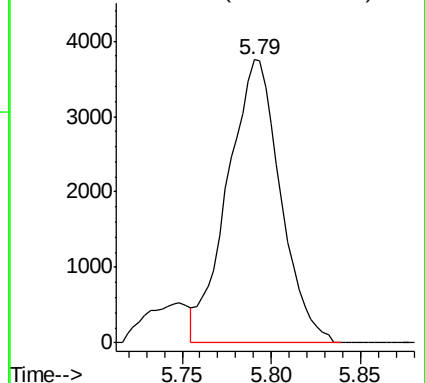


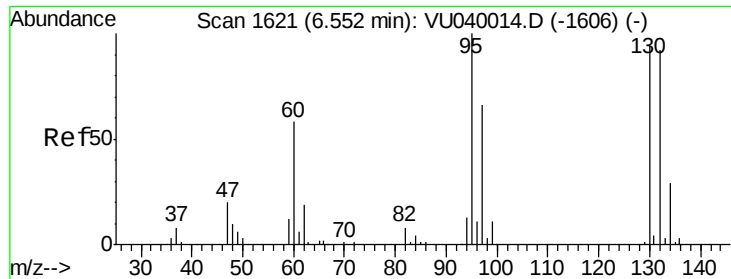
#33
Benzene
Concen: 0.185 ug/L
RT: 5.79 min Scan# 1384
Delta R.T. 0.00 min
Lab File: VU040020.D
Acq: 02 Sep 2020 12:35

Tgt Ion: 78 Resp: 7744



Abundance Ion 78.10 (77.80 to 78.80): VU0

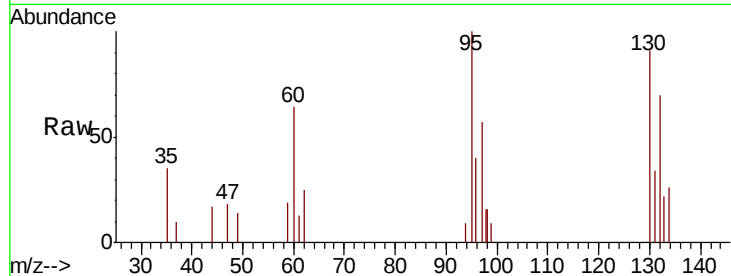




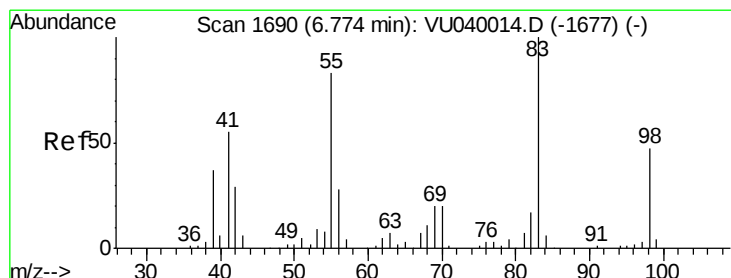
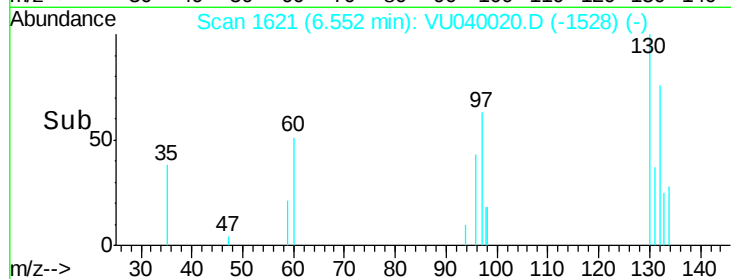
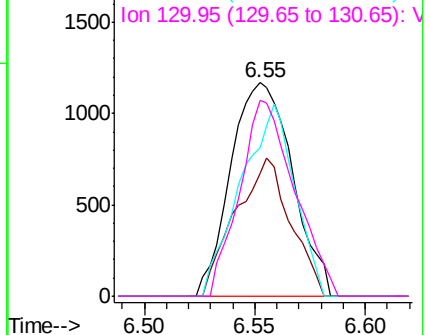
#34
 Trichloroethene
 Concen: 0.203 ug/L
 RT: 6.55 min Scan# 1621
 Delta R.T. 0.00 min
 Lab File: VU040020.D
 Acq: 02 Sep 2020 12:35

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 95 Resp: 2270
 Ion Ratio Lower Upper
 95 100
 97 57.5 43.3 80.5
 132 69.7 59.4 110.4
 130 91.4 64.8 120.4

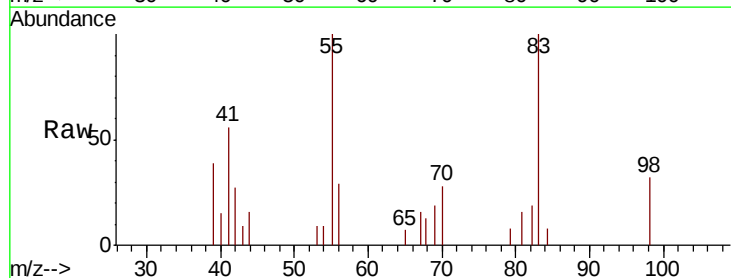


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 96.95 (96.65 to 97.65): VU0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

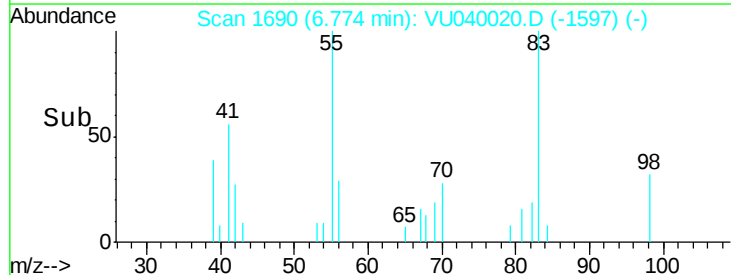
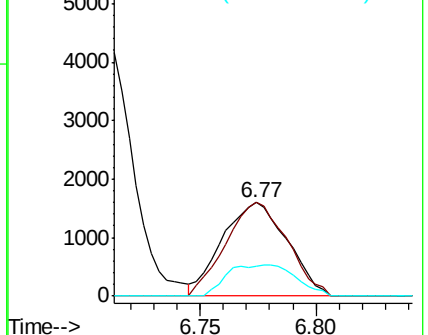


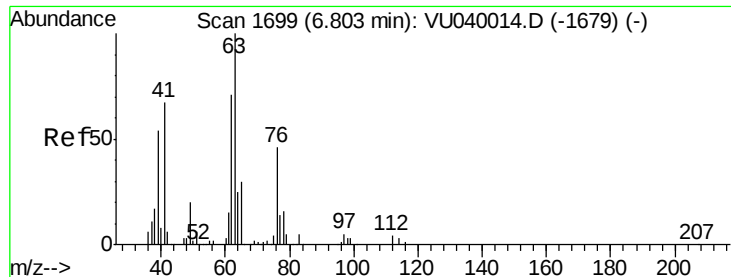
#35
 Methylcyclohexane
 Concen: 0.181 ug/L
 RT: 6.77 min Scan# 1690
 Delta R.T. 0.00 min
 Lab File: VU040020.D
 Acq: 02 Sep 2020 12:35

Tgt Ion: 83 Resp: 3099
 Ion Ratio Lower Upper
 83 100
 55 94.8 70.5 105.7
 98 35.3 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: 0.203 ug/L

RT: 6.80 min Scan# 1699

Delta R.T. 0.00 min

Lab File: VU040020.D

Acq: 02 Sep 2020 12:35

Instrument :

MSVOA_U

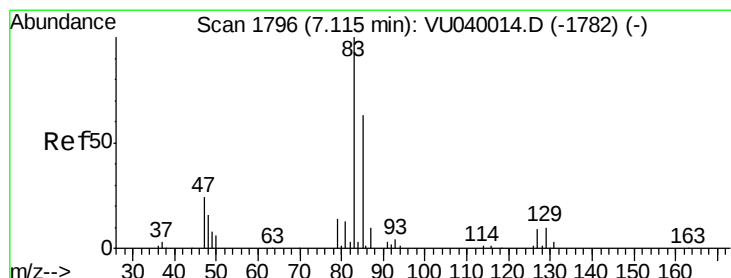
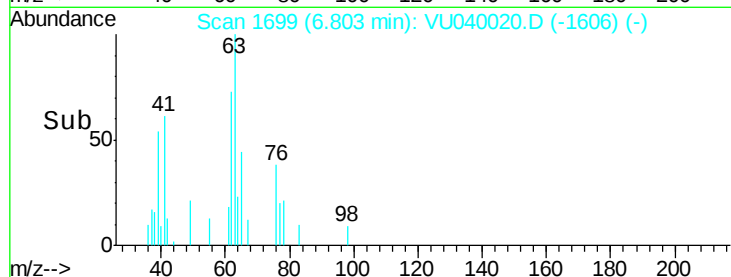
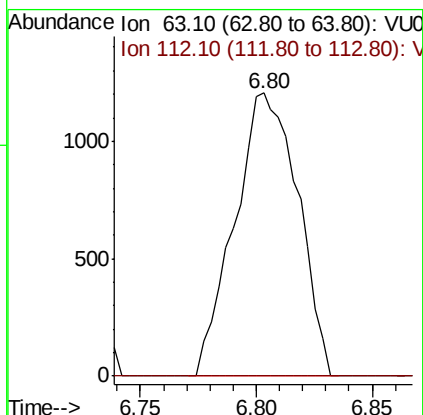
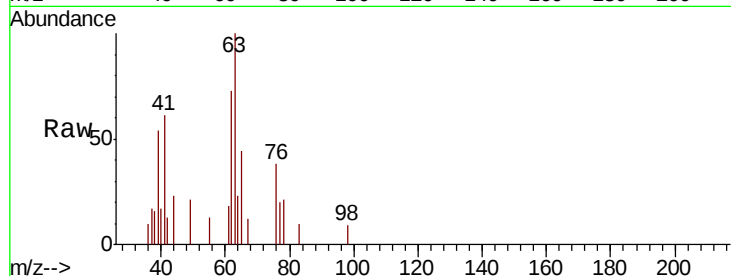
ClientSampleId :

Tot Ion: 63 Resp: 2292

Ion Ratio Lower Upper

63 100

112 0.0 3.2 4.8#



#38

Bromodichloromethane

Concen: 0.201 ug/L

RT: 7.11 min Scan# 1796

Delta R.T. 0.00 min

Lab File: VU040020.D

Acq: 02 Sep 2020 12:35

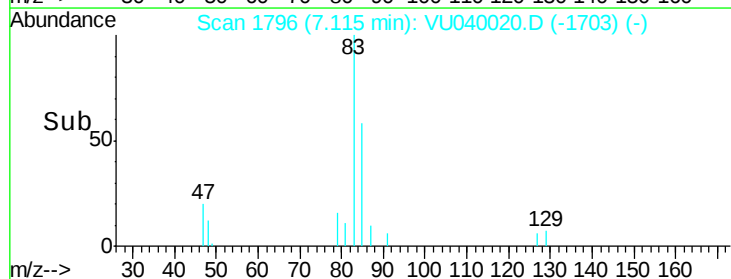
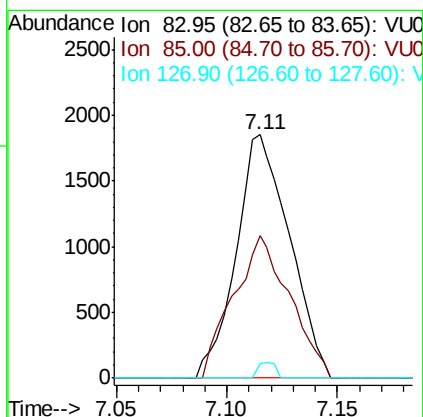
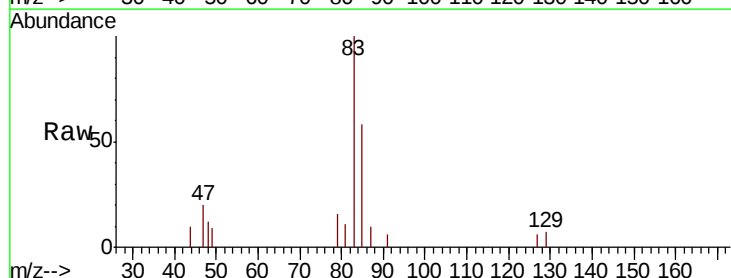
Tgt Ion: 83 Resp: 3106

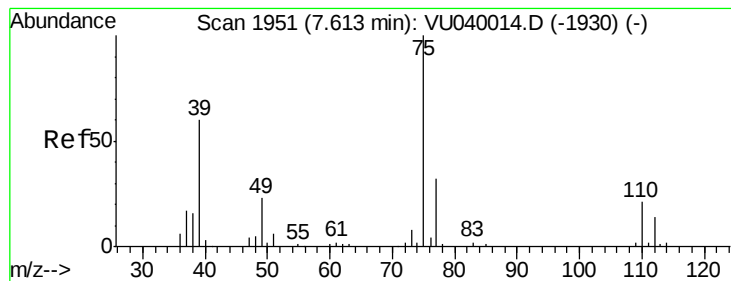
Ion Ratio Lower Upper

83 100

85 58.5 45.1 83.9

127 5.7 6.7 10.1#



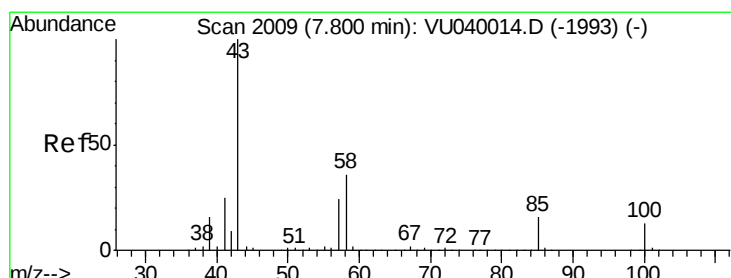
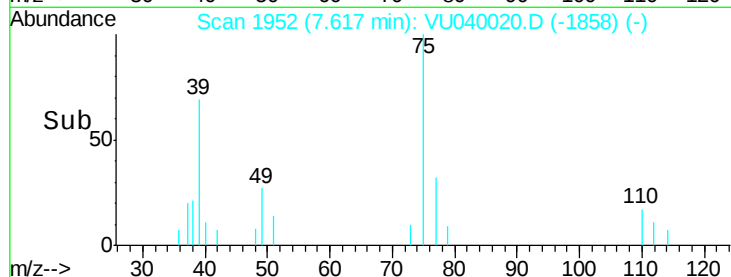
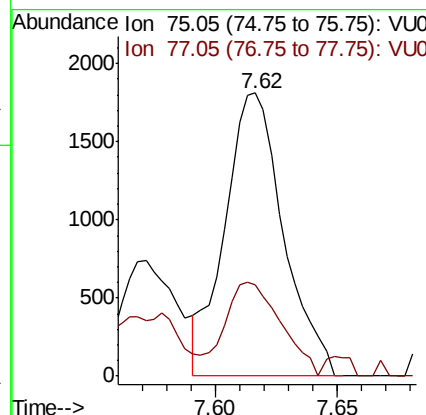
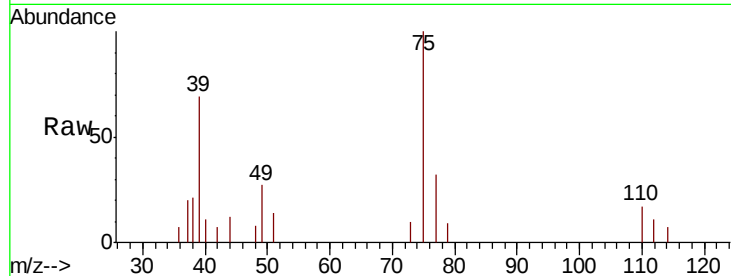


#39

cis-1,3-Dichloropropene
Concen: 0.181 ug/L
RT: 7.62 min Scan# 1952
Delta R.T. 0.00 min
Lab File: VU040020.D
Acq: 02 Sep 2020 12:35

Instrument :
MSVOA_U
ClientSampled :

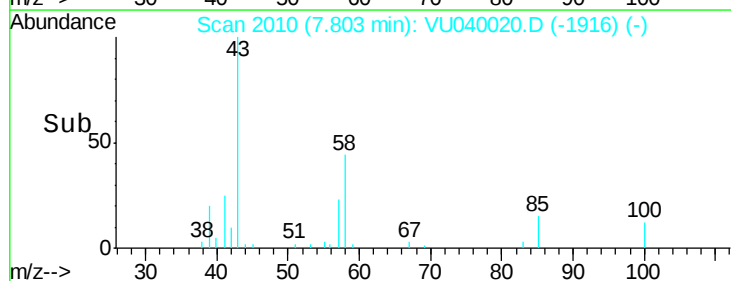
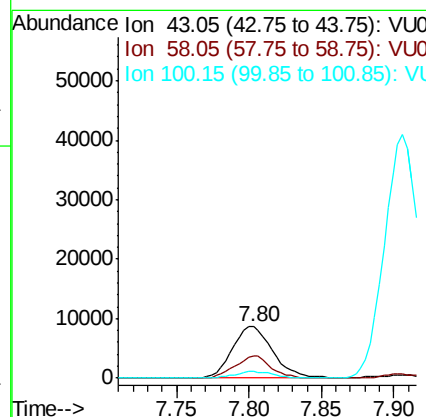
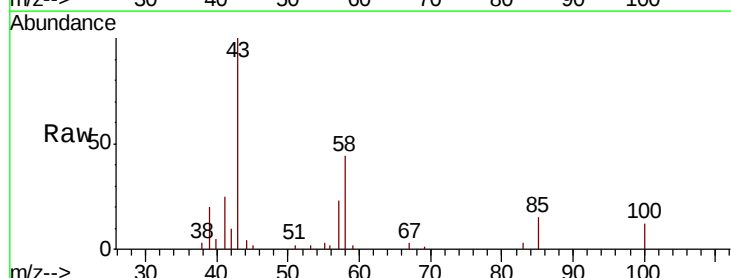
Tot Ion: 75 Resp: 3024
Ion Ratio Lower Upper
75 100
77 32.1 21.1 39.3

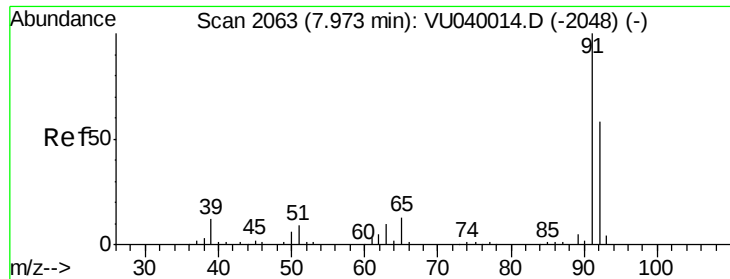


#40

4-Methyl-2-pentanone
Concen: 1.798 ug/L
RT: 7.80 min Scan# 2010
Delta R.T. 0.00 min
Lab File: VU040020.D
Acq: 02 Sep 2020 12:35

Tgt Ion: 43 Resp: 16686
Ion Ratio Lower Upper
43 100
58 38.3 28.7 43.1
100 0.0 10.2 15.2#





#42

Toluene

Concen: 0.197 ug/L

RT: 7.98 min Scan# 2064

Delta R.T. 0.00 min

Lab File: VU040020.D

Acq: 02 Sep 2020 12:35

Instrument :

MSVOA_U

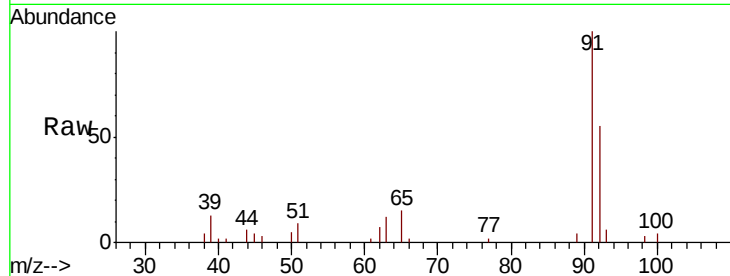
ClientSampleId :

Tot Ion: 91 Resp: 8472

Ion Ratio Lower Upper

91 100

92 55.1 40.7 75.5



Abundance Ion 91.15 (90.85 to 91.85): VU040014.D (-2048) (-)

Ion 92.15 (91.85 to 92.85): VU040014.D (-2048) (-)

7.98

6000

5000

4000

3000

2000

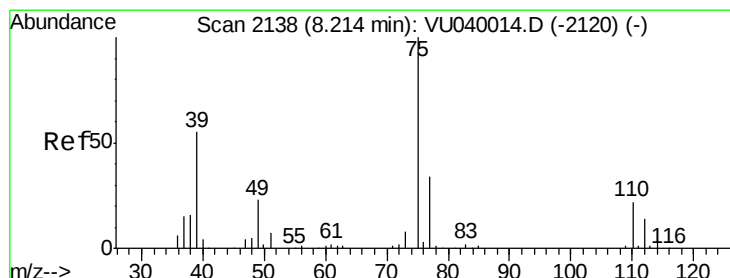
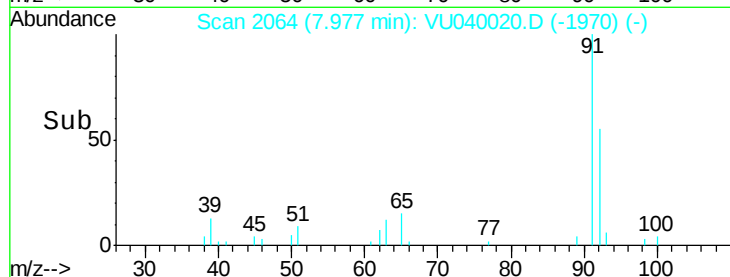
1000

0

7.95

8.00

Time-->



#44

trans-1,3-Dichloropropene

Concen: 0.197 ug/L

RT: 8.22 min Scan# 2139

Delta R.T. 0.00 min

Lab File: VU040020.D

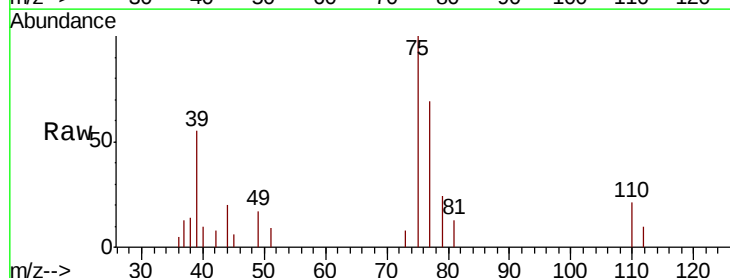
Acq: 02 Sep 2020 12:35

Tgt Ion: 75 Resp: 3040

Ion Ratio Lower Upper

75 100

77 68.5 23.9 44.3#



Abundance Ion 75.05 (74.75 to 75.75): VU040014.D (-2120) (-)

Ion 77.05 (76.75 to 77.75): VU040014.D (-2120) (-)

8.22

2000

1500

1000

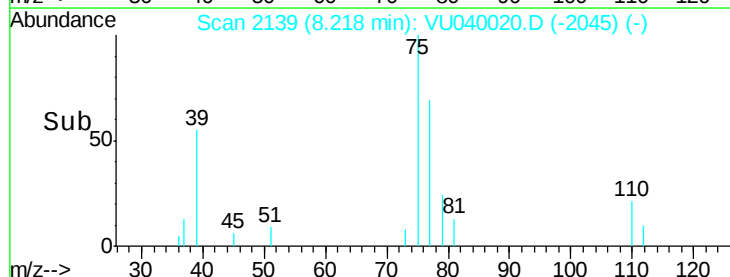
500

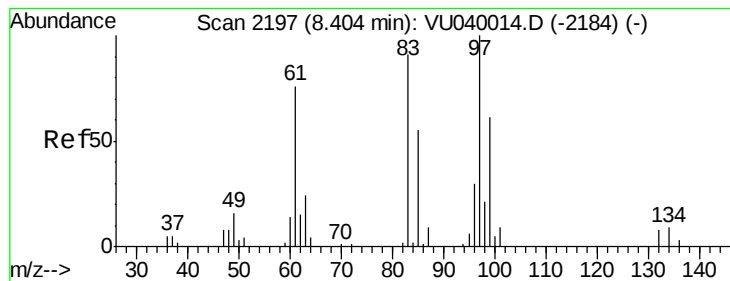
0

8.20

8.25

Time-->





#45

1,1,2-Trichloroethane

Concen: 0.204 ug/L

RT: 8.40 min Scan# 2197

Delta R.T. 0.00 min

Lab File: VU040020.D

Acq: 02 Sep 2020 12:35

Instrument :

MSVOA_U

ClientSampled :

Tot Ion: 97 Resp: 1681

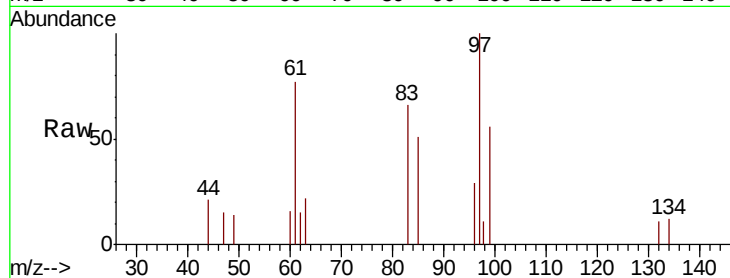
Ion Ratio Lower Upper

97 100

99 55.8 43.0 79.8

83 66.2 61.7 114.7

85 51.2 39.3 73.1

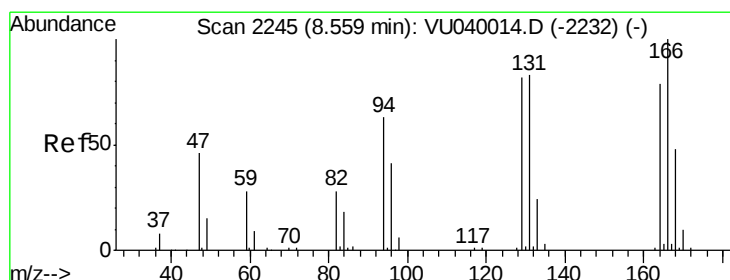
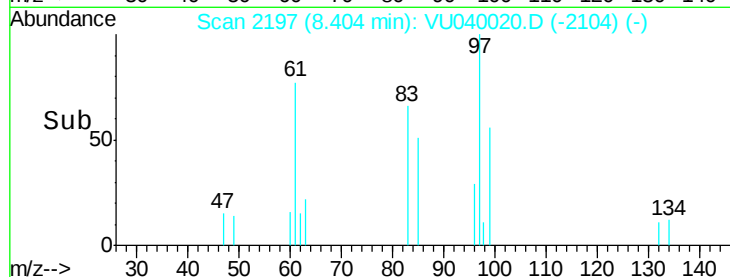
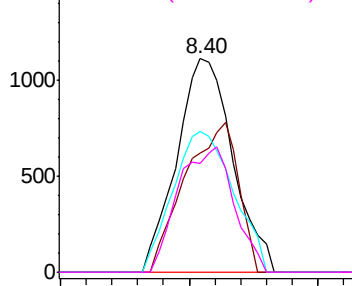


Abundance Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0



#47

Tetrachloroethene

Concen: 0.196 ug/L

RT: 8.56 min Scan# 2244

Delta R.T. -0.00 min

Lab File: VU040020.D

Acq: 02 Sep 2020 12:35

Tgt Ion: 164 Resp: 1444

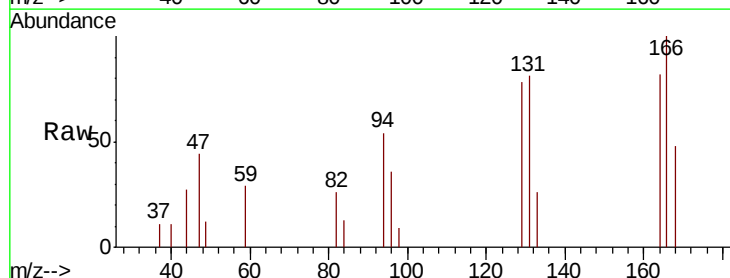
Ion Ratio Lower Upper

164 100

129 95.1 71.5 132.7

131 98.5 65.9 122.5

166 121.5 87.3 162.1

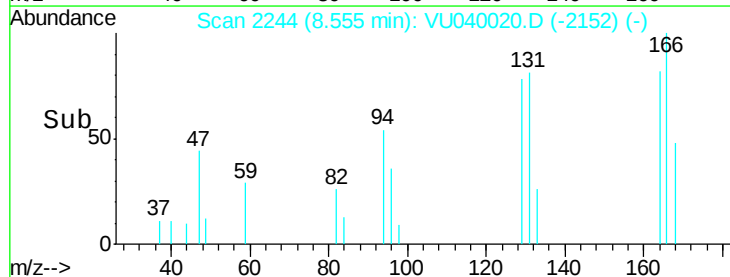
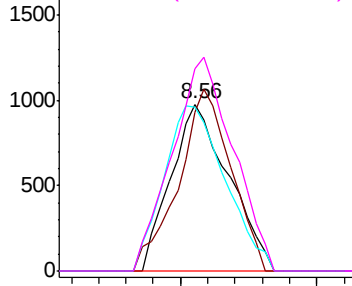


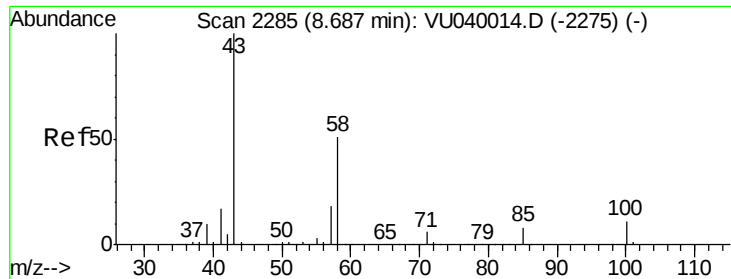
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V

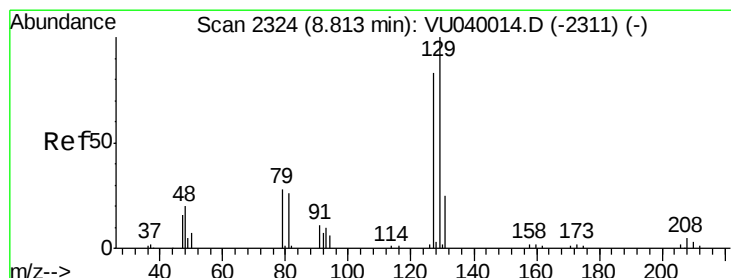
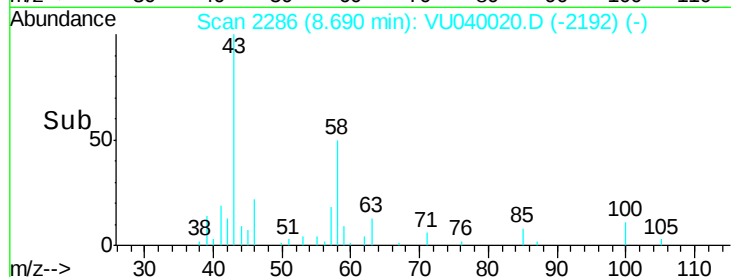
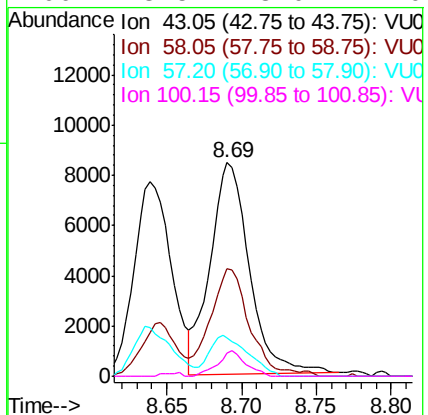
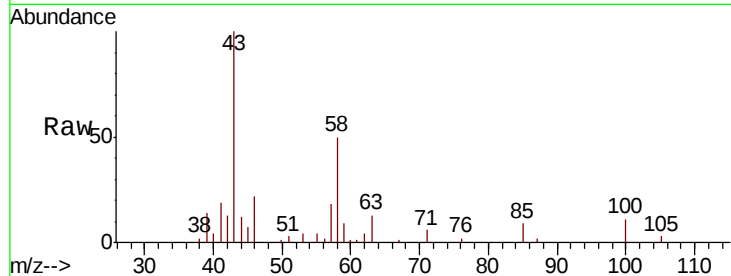




#48
2-Hexanone
Concen: 2.277 ug/L
RT: 8.69 min Scan# 2286
Delta R.T. 0.00 min
Lab File: VU040020.D
Acq: 02 Sep 2020 12:35

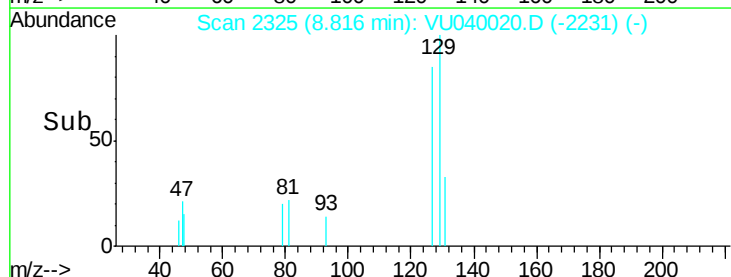
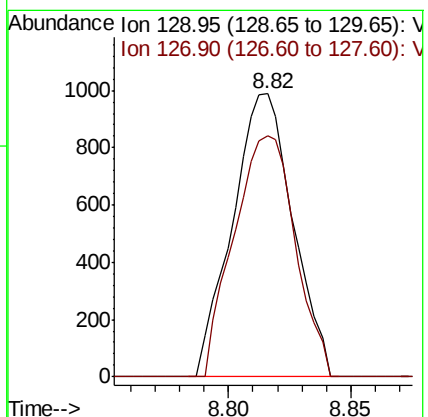
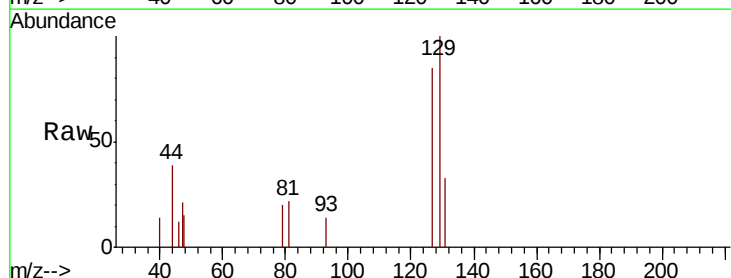
Instrument :
MSVOA_U
ClientSampleId :

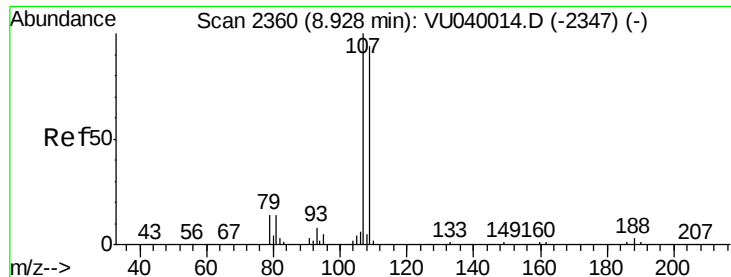
Tot Ion: 43 Resp: 15412
Ion Ratio Lower Upper
43 100
58 51.1 39.6 59.4
57 19.1 14.3 21.5
100 8.5 8.0 12.0



#49
Dibromochloromethane
Concen: 0.172 ug/L
RT: 8.82 min Scan# 2325
Delta R.T. 0.00 min
Lab File: VU040020.D
Acq: 02 Sep 2020 12:35

Tgt Ion: 129 Resp: 1699
Ion Ratio Lower Upper
129 100
127 85.2 53.7 99.7

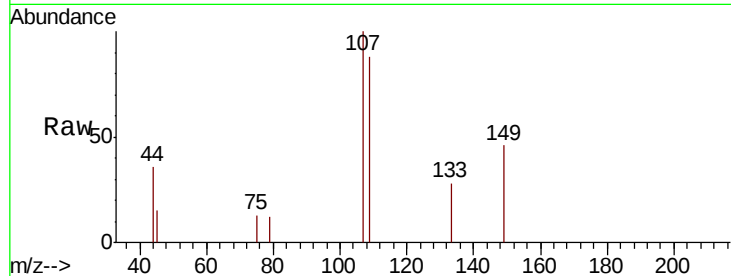




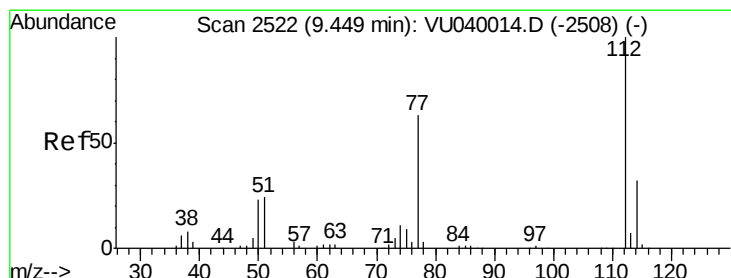
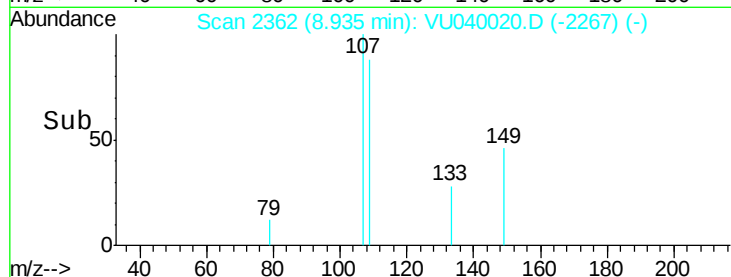
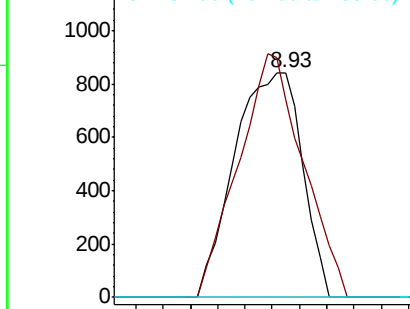
#50
 1,2-Dibromoethane
 Concen: 0.183 ug/L
 RT: 8.93 min Scan# 2362
 Delta R.T. 0.01 min
 Lab File: VU040020.D
 Acq: 02 Sep 2020 12:35

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:107 Resp: 1452
 Ion Ratio Lower Upper
 107 100
 109 87.9 62.4 115.8
 188 0.0 2.3 3.5#

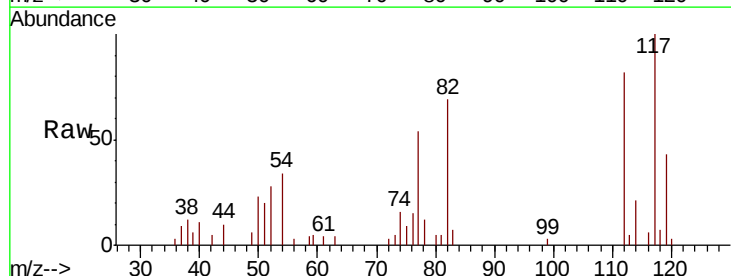


Abundance Ion 106.95 (106.65 to 107.65): V
 Ion 109.00 (108.70 to 109.70): V
 Ion 187.90 (187.60 to 188.60): V

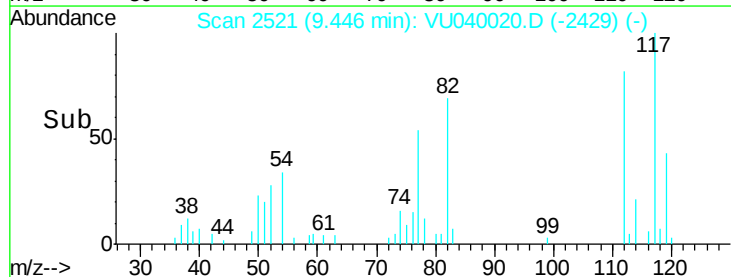
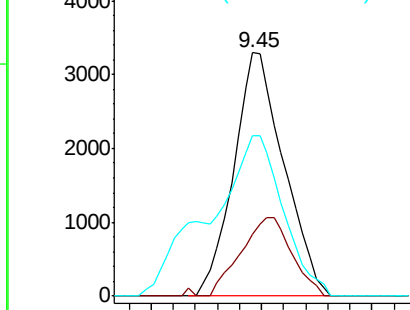


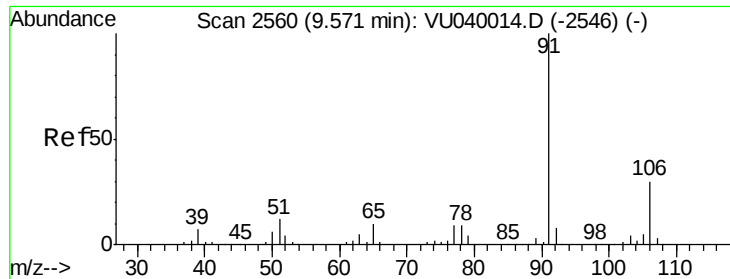
#51
 Chlorobenzene
 Concen: 0.194 ug/L
 RT: 9.45 min Scan# 2521
 Delta R.T. -0.00 min
 Lab File: VU040020.D
 Acq: 02 Sep 2020 12:35

Tgt Ion:112 Resp: 5189
 Ion Ratio Lower Upper
 112 100
 114 25.4 22.7 42.3
 77 65.7 53.2 79.8



Abundance Ion 112.10 (111.80 to 112.80): V
 Ion 114.05 (113.75 to 114.75): V
 Ion 77.10 (76.80 to 77.80): V





#52

Ethylbenzene

Concen: 0.179 ug/L

RT: 9.57 min Scan# 2560

Delta R.T. 0.00 min

Lab File: VU040020.D

Acq: 02 Sep 2020 12:35

Instrument :

MSVOA_U

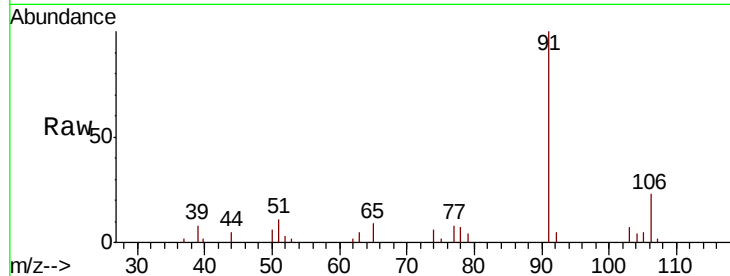
ClientSampleId :

Tot Ion: 91 Resp: 8760

Ion Ratio Lower Upper

91 100

106 22.7 21.0 39.0



Abundance Ion 91.15 (90.85 to 91.85): VU040014.D (-2546) (-)

Ion 106.15 (105.85 to 106.85): VU040014.D (-2546) (-)

9.57

6000

5000

4000

3000

2000

1000

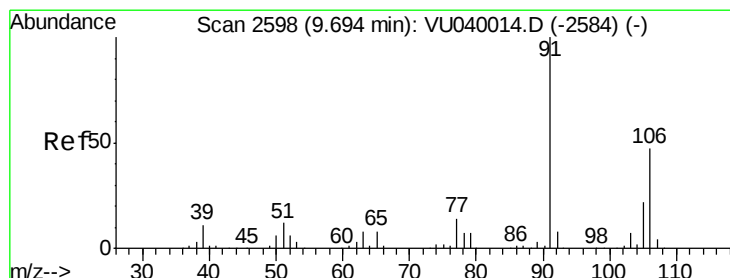
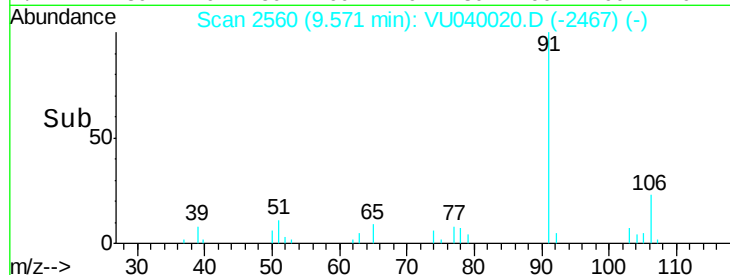
0

Time-->

9.50

9.55

9.60



#53

m,p-Xylene

Concen: 0.177 ug/L

RT: 9.69 min Scan# 2598

Delta R.T. 0.00 min

Lab File: VU040020.D

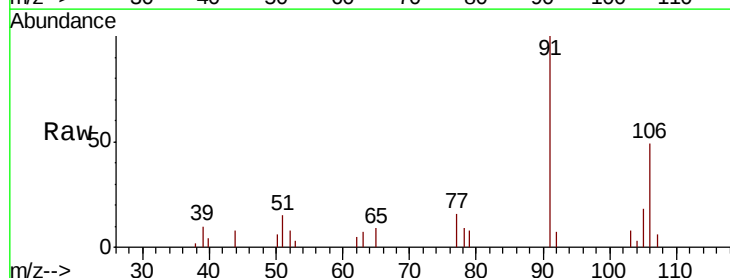
Acq: 02 Sep 2020 12:35

Tgt Ion: 106 Resp: 3075

Ion Ratio Lower Upper

106 100

91 202.3 151.7 281.7



Abundance Ion 106.15 (105.85 to 106.85): VU040014.D (-2584) (-)

Ion 91.15 (90.85 to 91.85): VU040014.D (-2584) (-)

9.69

4000

3000

2000

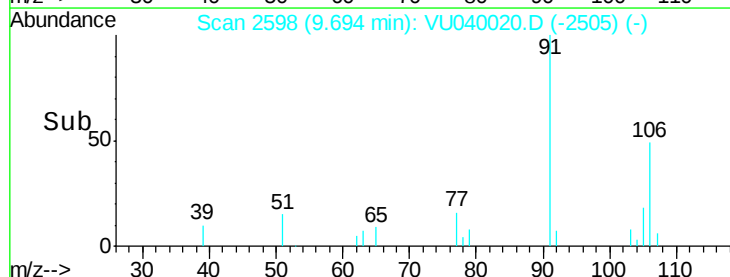
1000

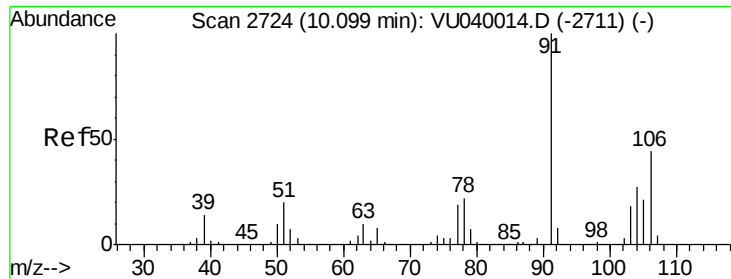
0

Time-->

9.65

9.70

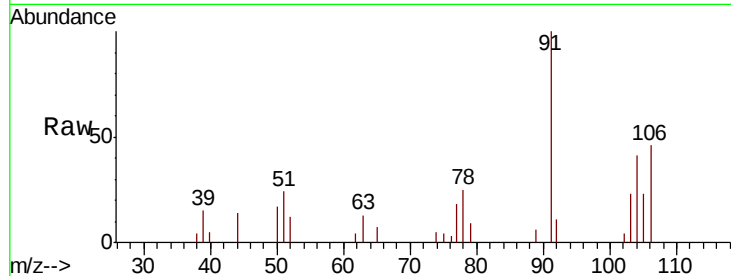




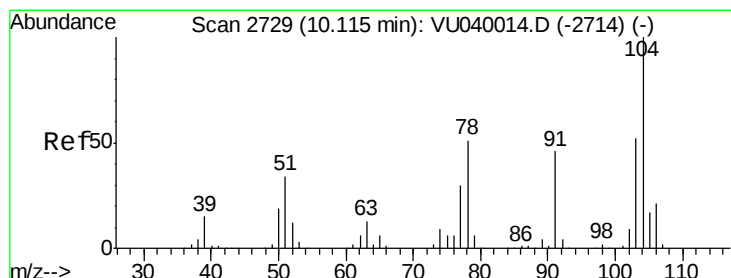
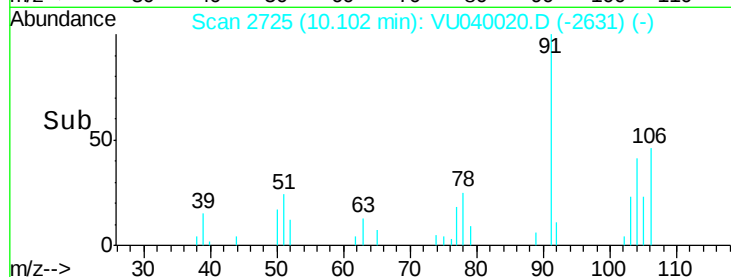
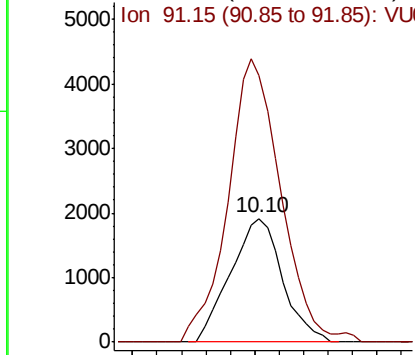
#54
o-Xylene
Concen: 0.171 ug/L
RT: 10.10 min Scan# 2725
Delta R.T. 0.00 min
Lab File: VU040020.D
Acq: 02 Sep 2020 12:35

Instrument :
MSVOA_U
ClientSampled :

Tot Ion:106 Resp: 2827
Ion Ratio Lower Upper
106 100
91 215.9 160.8 298.6

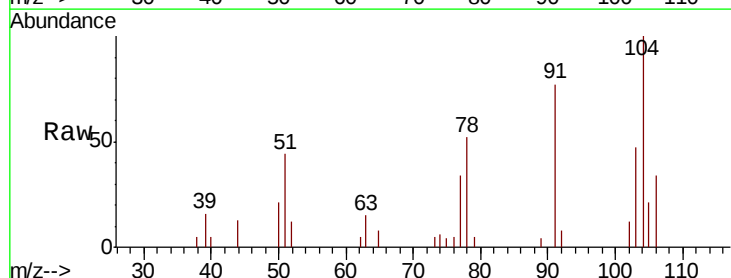


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

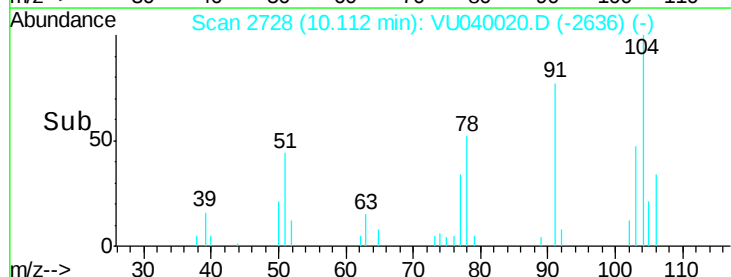
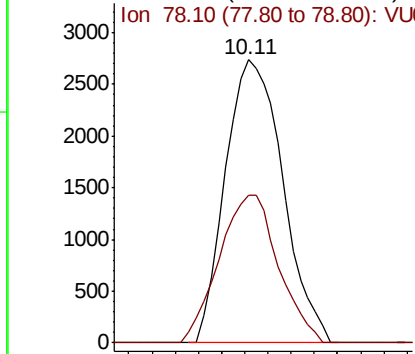


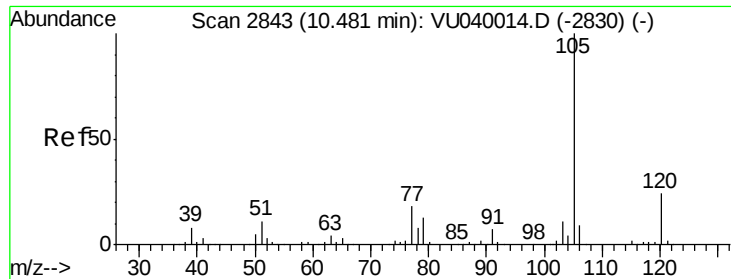
#55
Styrene
Concen: 0.163 ug/L
RT: 10.11 min Scan# 2728
Delta R.T. -0.00 min
Lab File: VU040020.D
Acq: 02 Sep 2020 12:35

Tgt Ion:104 Resp: 4708
Ion Ratio Lower Upper
104 100
78 52.1 36.8 68.3



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





#56

Isopropylbenzene

Concen: 0.171 ug/L

RT: 10.48 min Scan# 2844

Delta R.T. 0.00 min

Lab File: VU040020.D

Acq: 02 Sep 2020 12:35

Instrument :

MSVOA_U

ClientSampleId :

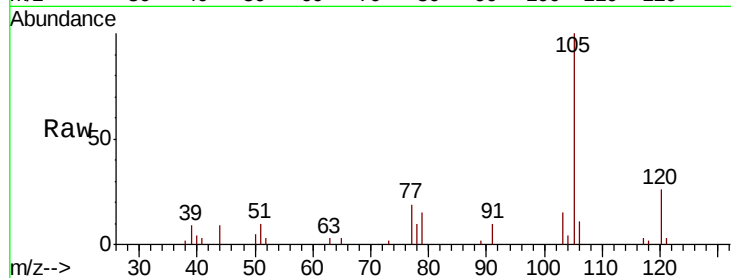
Tot Ion:105 Resp: 7718

Ion Ratio Lower Upper

105 100

120 25.4 20.1 30.1

77 18.6 14.4 21.6

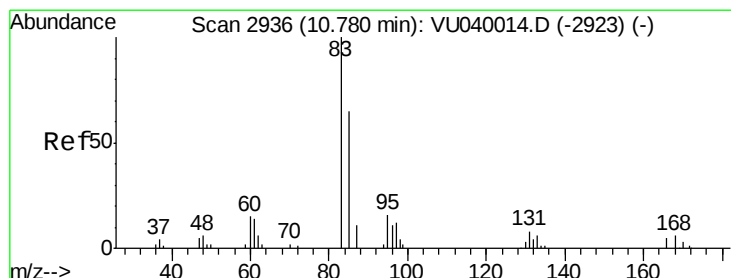
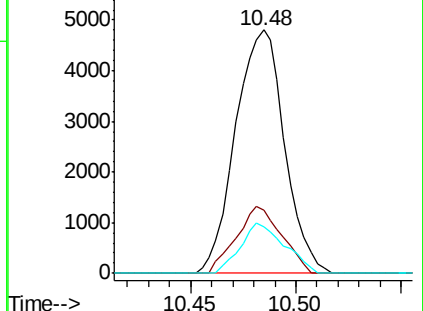
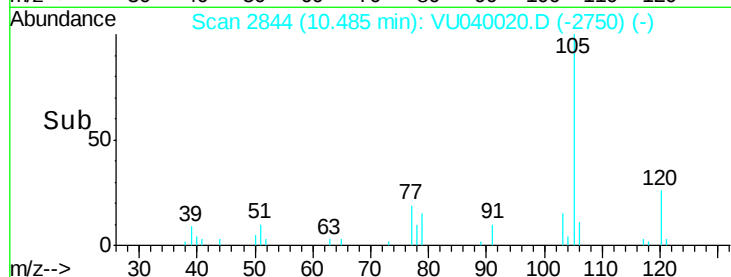


Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V

Time-->



#58

1,1,2,2-Tetrachloroethane

Concen: 0.223 ug/L

RT: 10.78 min Scan# 2936

Delta R.T. 0.00 min

Lab File: VU040020.D

Acq: 02 Sep 2020 12:35

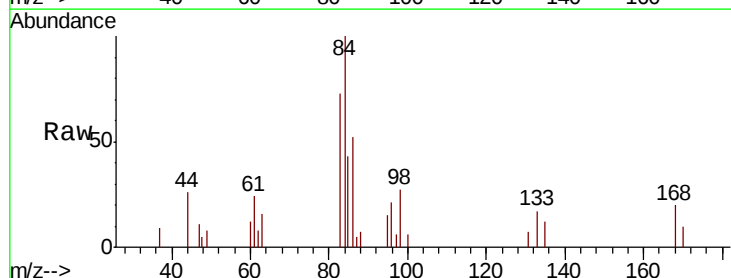
Tgt Ion: 83 Resp: 2353

Ion Ratio Lower Upper

83 100

85 58.8 44.9 83.3

131 9.7 7.4 11.0

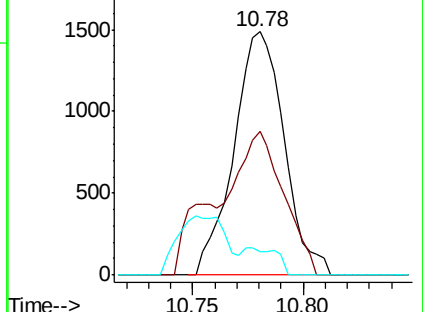
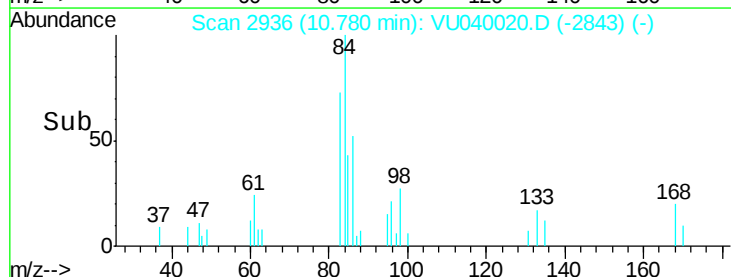


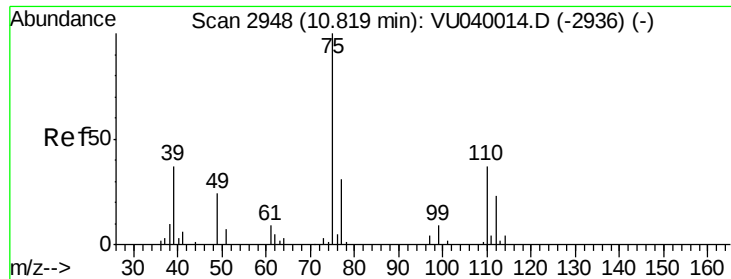
Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V

Time-->





#59

1,2,3-Trichloropropane

Concen: 1.289 ug/L

RT: 11.81 min Scan# 3256

Delta R.T. 0.99 min

Lab File: VU040020.D

Acq: 02 Sep 2020 12:35

Instrument :

MSVOA_U

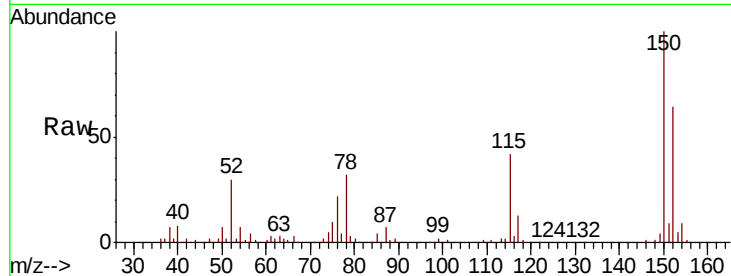
ClientSampleId :

Tot Ion: 75 Resp: 10799

Ion Ratio Lower Upper

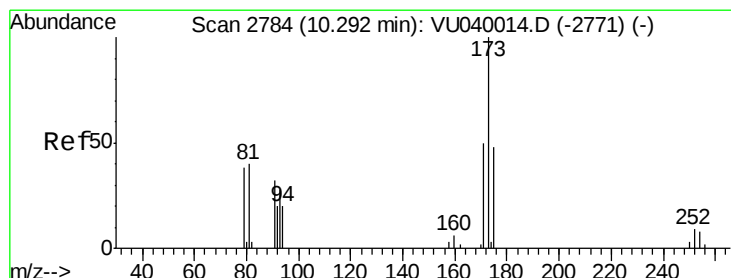
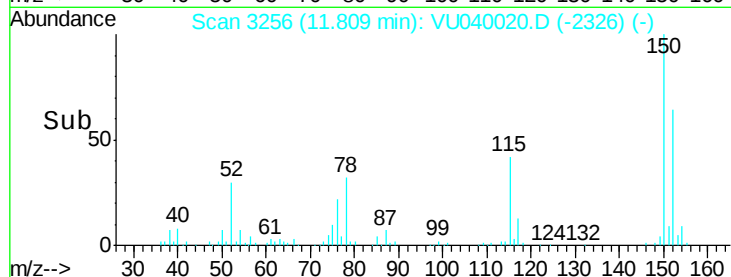
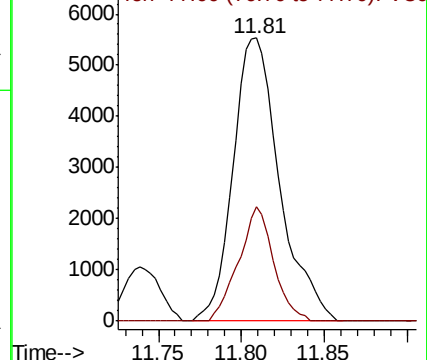
75 100

77 30.4 24.9 37.3



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0



#61

Bromoform

Concen: 0.199 ug/L

RT: 10.29 min Scan# 2782

Delta R.T. -0.01 min

Lab File: VU040020.D

Acq: 02 Sep 2020 12:35

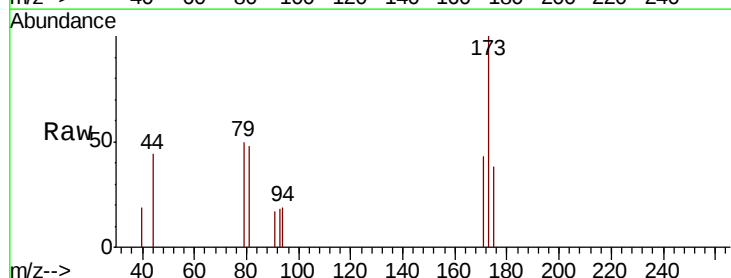
Tgt Ion: 173 Resp: 993

Ion Ratio Lower Upper

173 100

175 46.1 37.8 56.6

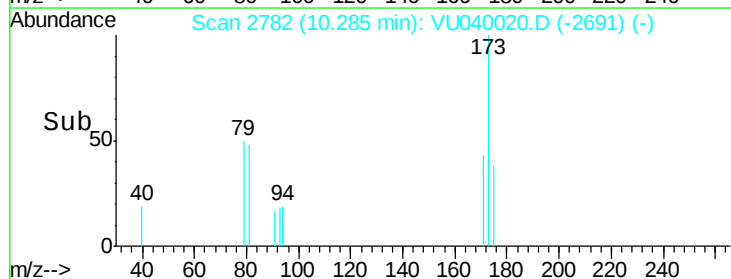
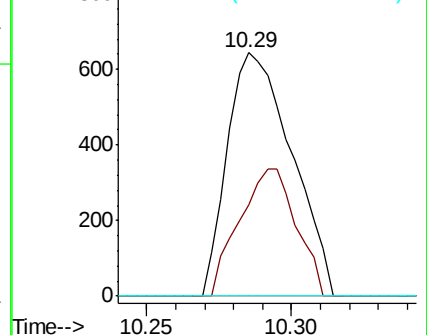
254 0.0 6.8 10.2#

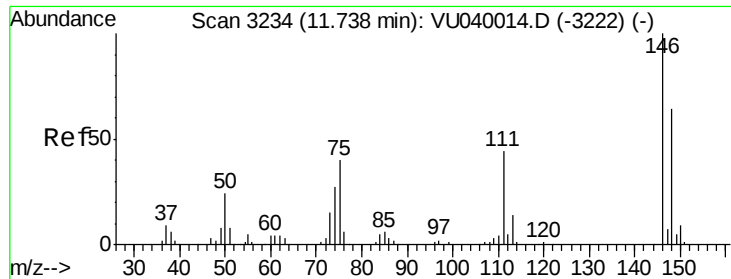


Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 253.75 (253.45 to 254.45): V





#62

1,3-Dichlorobenzene

Concen: 0.204 ug/L

RT: 11.74 min Scan# 3235

Delta R.T. 0.00 min

Lab File: VU040020.D

Acq: 02 Sep 2020 12:35

Instrument :

MSVOA_U

ClientSampleId :

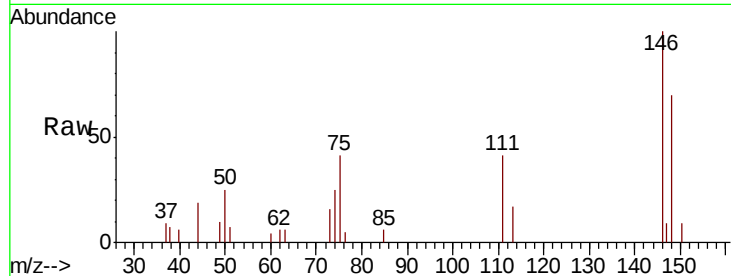
Tot Ion:146 Resp: 4058

Ion Ratio Lower Upper

146 100

111 40.6 31.6 58.8

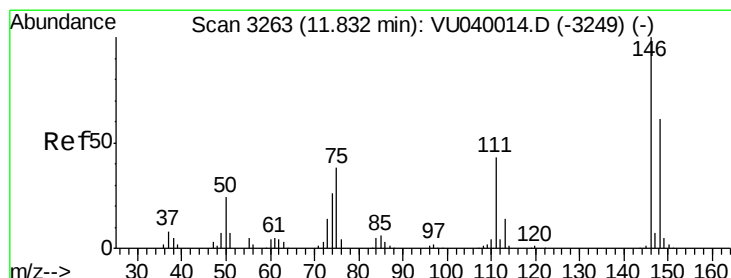
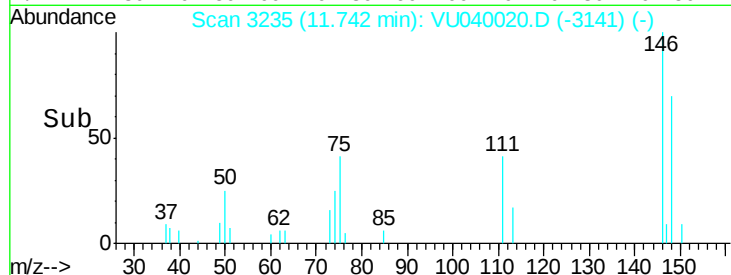
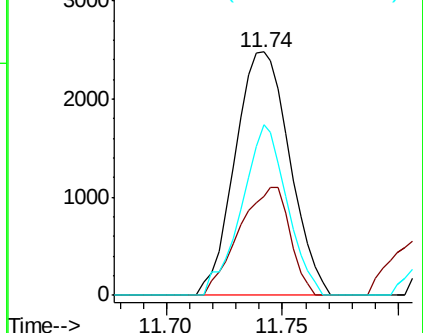
148 70.2 44.2 82.0



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 0.219 ug/L

RT: 11.83 min Scan# 3262

Delta R.T. -0.00 min

Lab File: VU040020.D

Acq: 02 Sep 2020 12:35

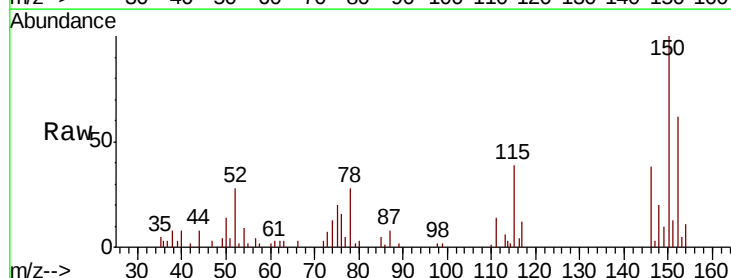
Tgt Ion:146 Resp: 4402

Ion Ratio Lower Upper

146 100

111 36.7 30.5 56.7

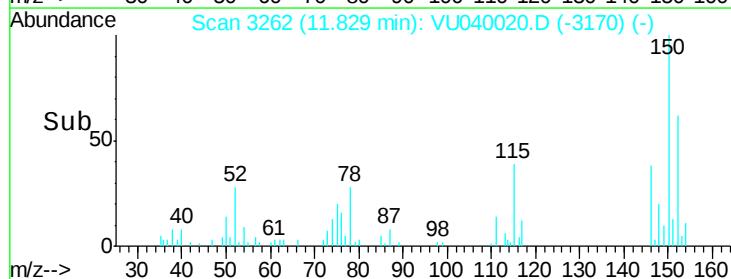
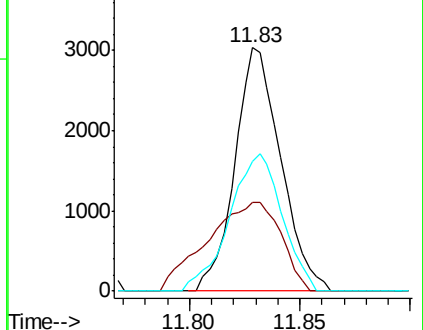
148 53.3 45.4 84.4

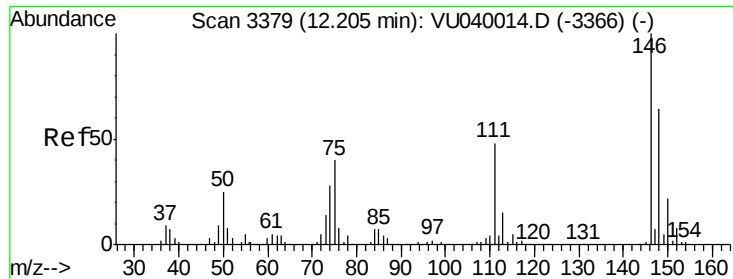


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 0.209 ug/L

RT: 12.20 min Scan# 3379

Delta R.T. 0.00 min

Lab File: VU040020.D

Acq: 02 Sep 2020 12:35

Instrument :

MSVOA_U

ClientSampleId :

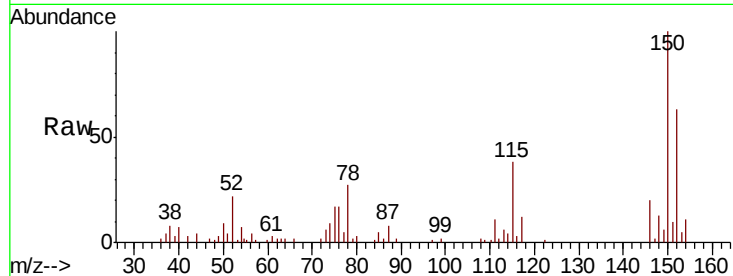
Tot Ion:146 Resp: 4010

Ion Ratio Lower Upper

146 100

111 53.7 36.5 54.7

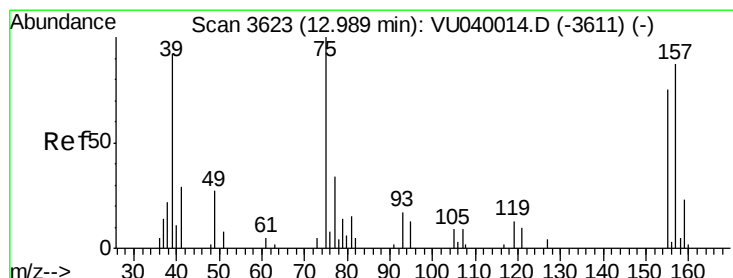
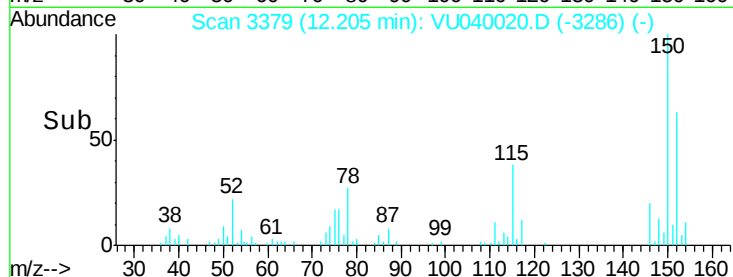
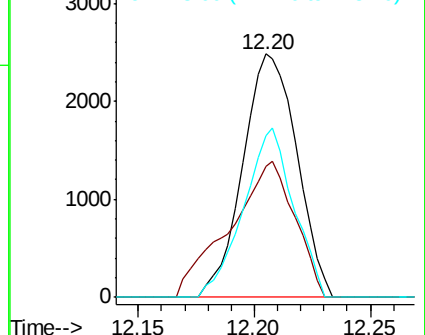
148 66.6 48.6 72.8



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 0.158 ug/L

RT: 13.00 min Scan# 3625

Delta R.T. 0.01 min

Lab File: VU040020.D

Acq: 02 Sep 2020 12:35

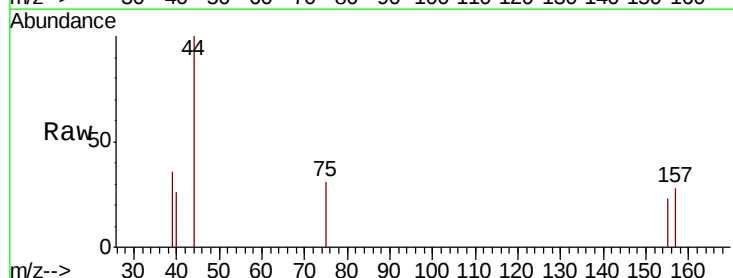
Tgt Ion: 75 Resp: 325

Ion Ratio Lower Upper

75 100

155 73.4 54.6 82.0

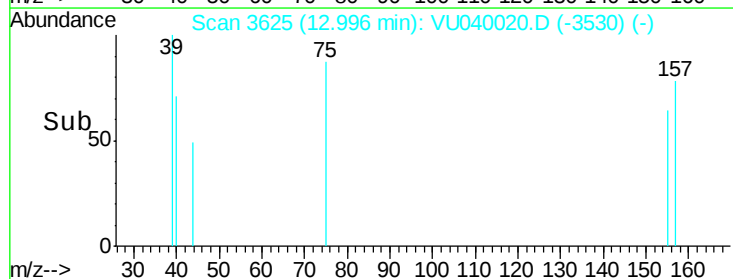
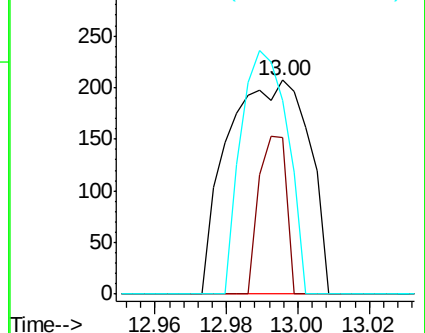
157 90.3 75.6 113.4

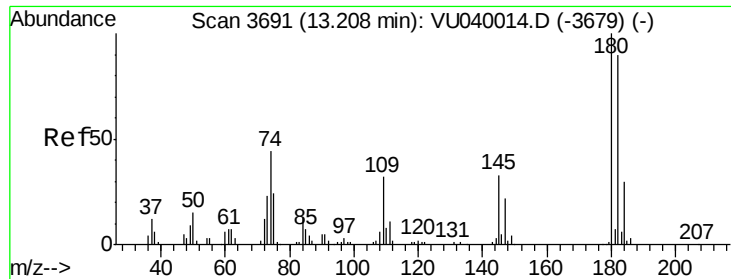


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

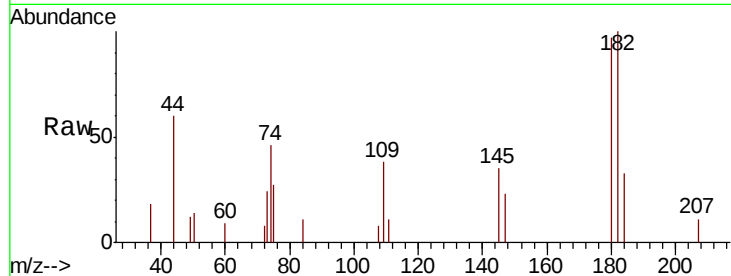




#67
 1,3,5-Trichlorobenzene
 Concen: 0.165 ug/L
 RT: 13.83 min Scan# 3884
 Delta R.T. 0.62 min
 Lab File: VU040020.D
 Acq: 02 Sep 2020 12:35

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	102.6	76.9	115.3
184	28.6	24.6	36.8
145	32.6	27.0	40.6



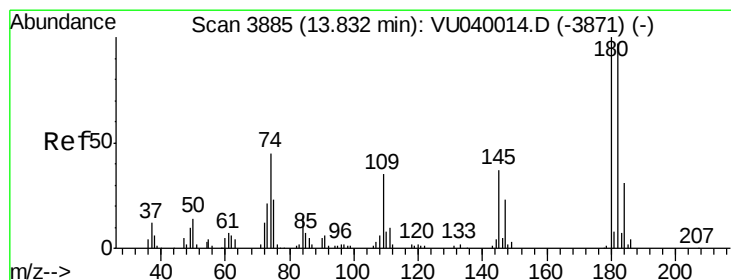
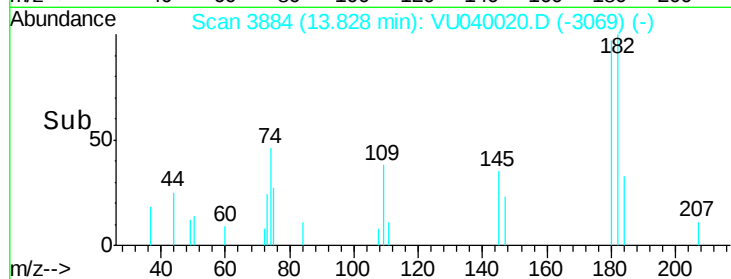
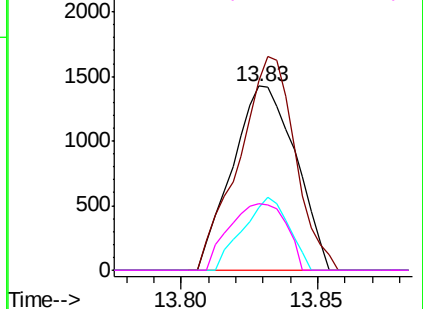
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

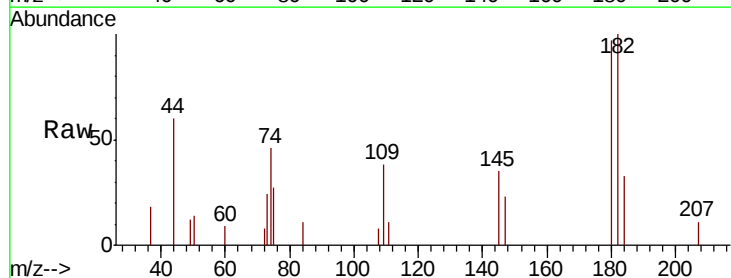
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 0.191 ug/L
 RT: 13.83 min Scan# 3884
 Delta R.T. -0.00 min
 Lab File: VU040020.D
 Acq: 02 Sep 2020 12:35

Tgt Ion	Ratio	Lower	Upper
180	100		
182	102.6	76.0	114.0
145	32.6	28.4	42.6

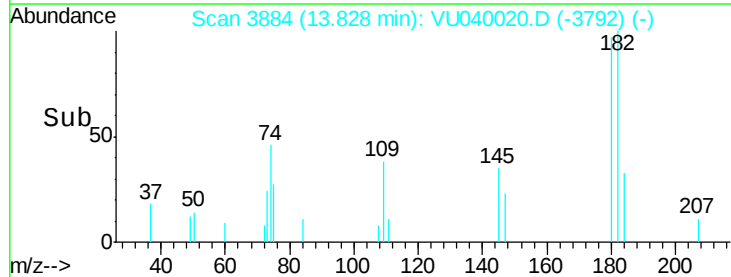
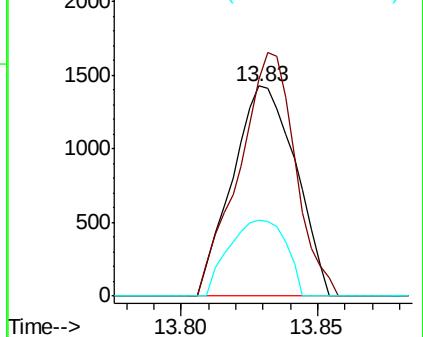


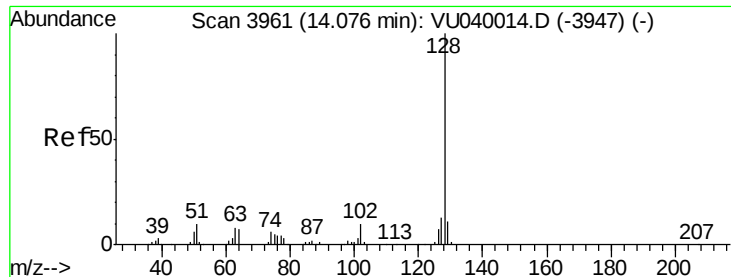
Abundance

Ion 179.90 (179.60 to 180.60): V

Ion 182.00 (181.70 to 182.70): V

Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 0.147 ug/L

RT: 14.08 min Scan# 3961

Delta R.T. 0.00 min

Lab File: VU040020.D

Acq: 02 Sep 2020 12:35

Instrument :

MSVOA_U

ClientSampleId :

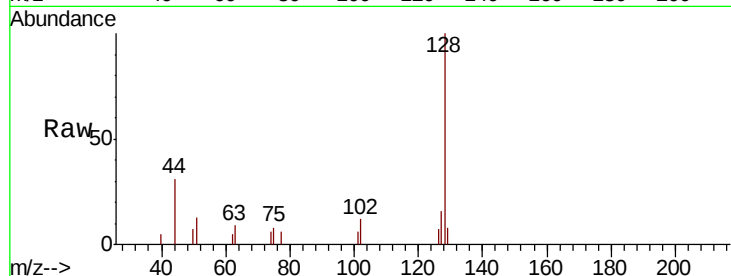
Tot Ion:128 Resp: 3678

Ion Ratio Lower Upper

128 100

129 4.6 8.7 13.1#

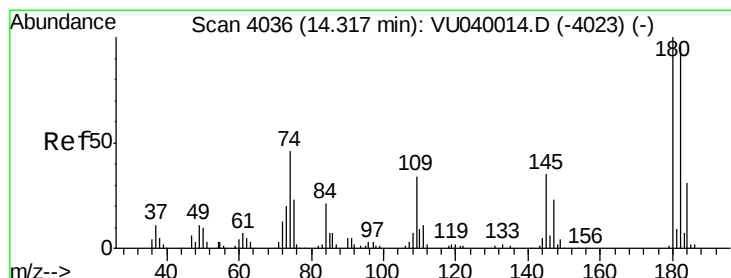
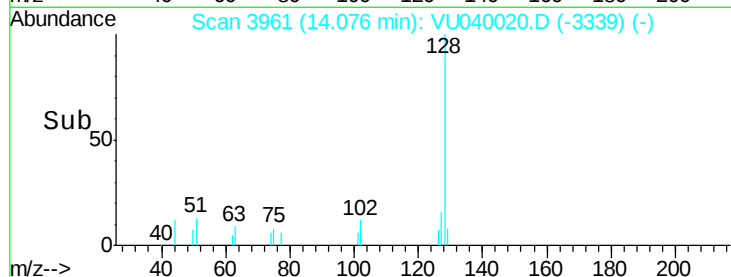
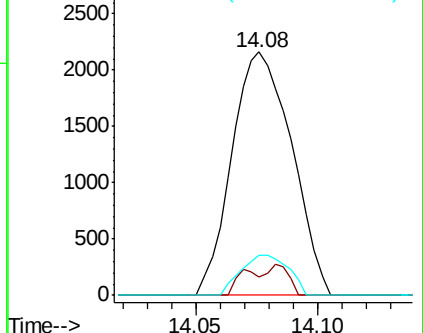
127 13.1 10.7 16.1



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: 0.187 ug/L

RT: 14.32 min Scan# 4037

Delta R.T. 0.00 min

Lab File: VU040020.D

Acq: 02 Sep 2020 12:35

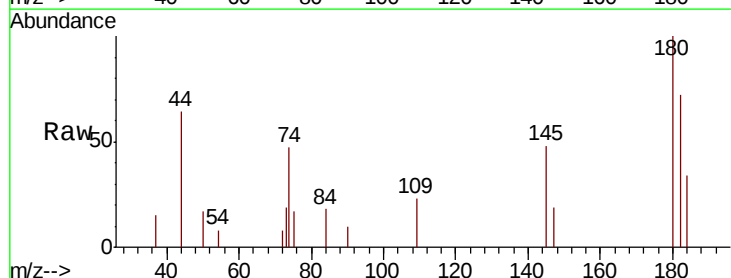
Tgt Ion:180 Resp: 2066

Ion Ratio Lower Upper

180 100

182 78.8 77.8 116.6

145 38.5 28.7 43.1



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

