

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U100620\
 Data File : VU040533.D
 Acq On : 06 Oct 2020 17:52
 Operator : SY/MD
 Sample : TEST
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 TEST

Quant Time: Oct 07 15:30:54 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SFAMUL100620WMA.M
 Quant Title : VOC Analysis
 QLast Update : Wed Oct 07 08:04:20 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	283033	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	274191	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.81	152	131137	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	113066	46.52	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	93.04%
7) Chloroethane-d5	1.92	69	90328	48.78	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	97.56%
11) 1,1-Dichloroethene-d2	2.58	63	182202	39.28	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	78.56%
21) 2-Butanone-d5	4.64	46	200623	104.00	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	104.00%
24) Chloroform-d	5.08	84	202785	48.37	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.74%
26) 1,2-Dichloroethane-d4	5.72	65	141380	48.42	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.84%
32) Benzene-d6	5.74	84	392682	50.32	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	100.64%
36) 1,2-Dichloropropane-d6	6.70	67	129570	49.54	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	99.08%
41) Toluene-d8	7.91	98	345992	48.91	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	97.82%
43) trans-1,3-Dichloropropene-	8.19	79	64030	48.91	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	97.82%
47) 2-Hexanone-d5	8.64	63	129209	105.97	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	105.97%
56) 1,1,2,2-Tetrachloroethane-	10.75	84	184734	48.90	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	97.80%
66) 1,2-Dichlorobenzene-d4	12.19	152	138378	51.85	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	103.70%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.61	62	100705	35.515	ug/L	100
12) 1,1-Dichloroethene	2.59	96	27200	13.568	ug/L	# 27
16) Methylene chloride	3.06	84	25928	10.906	ug/L	92
17) trans-1,2-Dichloroethene	3.37	96	28617	13.403	ug/L	98
20) cis-1,2-Dichloroethene	4.69	96	23589	10.251	ug/L	99
25) Chloroform	5.10	83	3528	0.812	ug/L	80
27) 1,2-Dichloroethane	5.81	62	24856	6.936	ug/L	98
30) 1,1,1-Trichloroethane	5.33	97	33149	9.413	ug/L	99
31) Carbon tetrachloride	5.54	117	34652	11.380	ug/L	98
33) Benzene	5.79	78	88558	9.992	ug/L	100
34) Trichloroethene	6.56	95	26785	11.732	ug/L	97
37) 1,2-Dichloropropane	6.80	63	45086	18.526	ug/L	100
42) Toluene	7.98	91	102274	11.303	ug/L	98
45) 1,1,2-Trichloroethane	8.40	97	38377	17.603	ug/L	98
46) Tetrachloroethene	8.56	164	23561	14.282	ug/L	94
51) Chlorobenzene	9.45	112	50808	8.561	ug/L	98
52) Ethylbenzene	9.57	91	82336	8.198	ug/L	97

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU100620\
Data File : VU040533.D
Acq On : 06 Oct 2020 17:52
Operator : SY/MD
Sample : TEST
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
TEST

Quant Time: Oct 07 15:30:54 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SFAMUL100620WMA.M
Quant Title : VOC Analysis
QLast Update : Wed Oct 07 08:04:20 2020
Response via : Initial Calibration

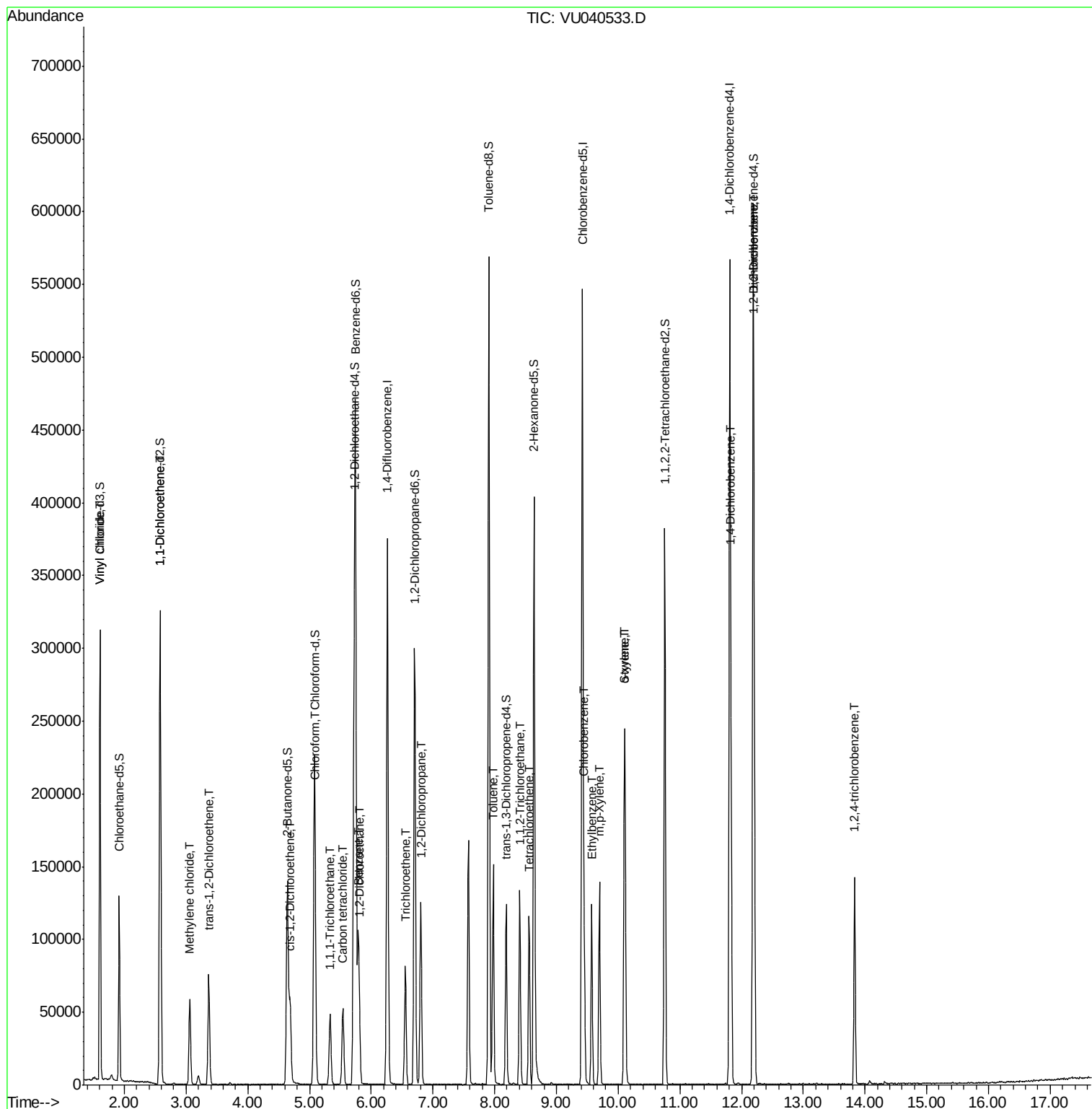
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
53) m,p-Xylene	9.70	106	37780	10.216	ug/L	93
54) o-xylene	10.10	106	45837	13.027	ug/L	98
55) Styrene	10.11	104	59099	9.536	ug/L	96
65) 1,4-Dichlorobenzene	11.83	146	64550	14.312	ug/L	98
67) 1,2-Dichlorobenzene	12.21	146	63277	14.710	ug/L	98
70) 1,2,4-trichlorobenzene	13.83	180	38912	15.957	ug/L	96

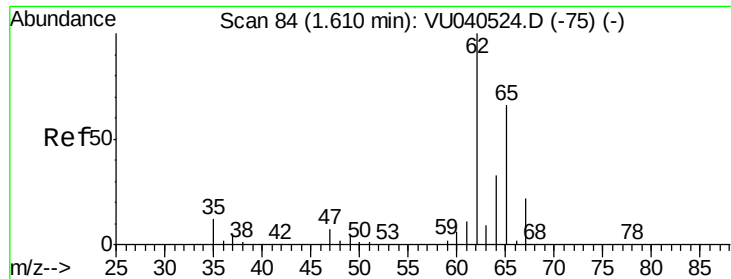
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU100620\
Data File : VU040533.D
Acq On : 06 Oct 2020 17:52
Operator : SY/MD
Sample : TEST
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
TEST

Quant Time: Oct 07 15:30:54 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\SFAMUL100620WMA.M
Quant Title : VOC Analysis
QLast Update : Wed Oct 07 08:04:20 2020
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 35.515 ug/L

RT: 1.61 min Scan# 83

Delta R.T. -0.00 min

Lab File: VU040533.D

Acq: 06 Oct 2020 17:52

Instrument :

MSVOA_U

ClientSampled :

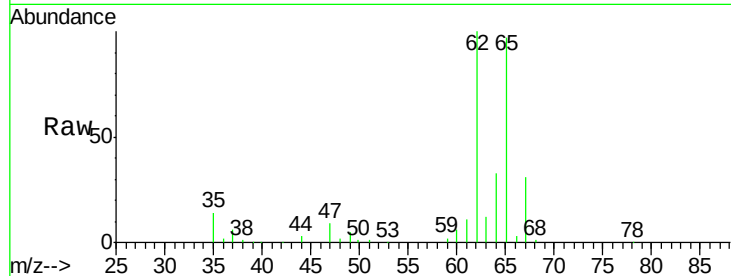
TEST

Tot Ion: 62 Resp: 100705

Ion Ratio Lower Upper

62 100

64 33.3 23.4 43.6



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0

1.61

100000

80000

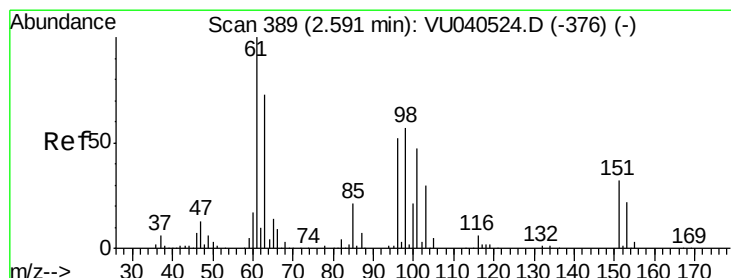
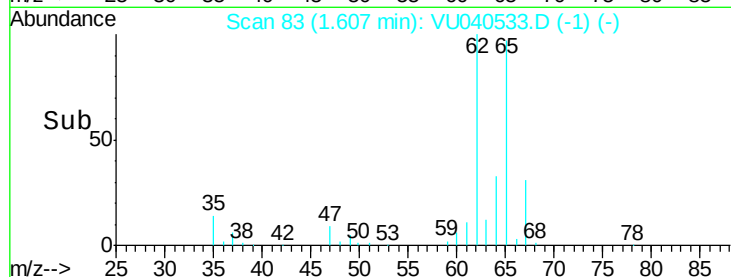
60000

40000

20000

0

Time-->



#12

1,1-Dichloroethene

Concen: 13.568 ug/L

RT: 2.59 min Scan# 389

Delta R.T. -0.00 min

Lab File: VU040533.D

Acq: 06 Oct 2020 17:52

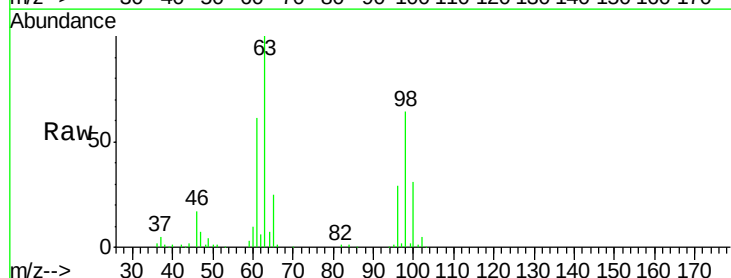
Tgt Ion: 96 Resp: 27200

Ion Ratio Lower Upper

96 100

61 207.9 135.0 250.8

63 340.2 101.4 188.2#



Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0

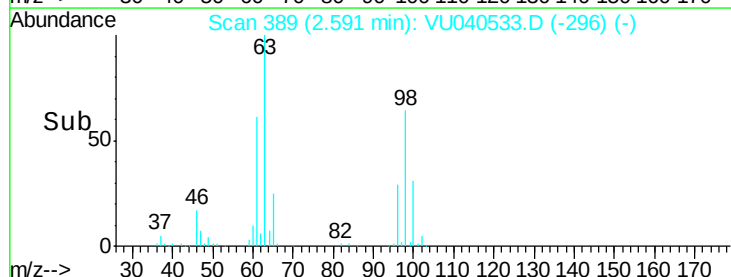
150000

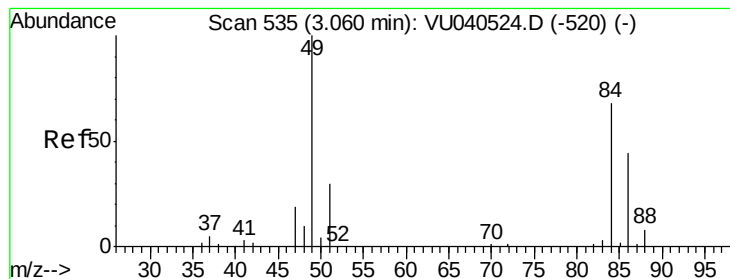
100000

50000

0

Time-->





#16

Methylene chloride

Concen: 10.906 ug/L

RT: 3.06 min Scan# 535

Delta R.T. -0.00 min

Lab File: VU040533.D

Acq: 06 Oct 2020 17:52

Instrument :

MSVOA_U

ClientSampleId :

TEST

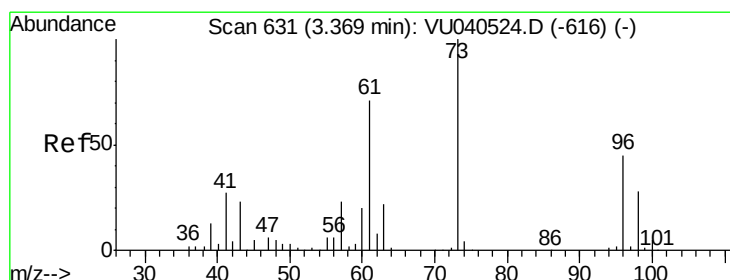
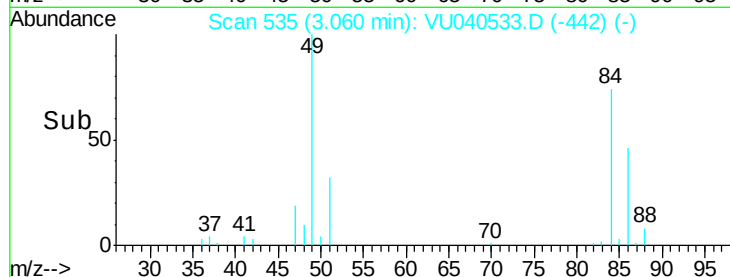
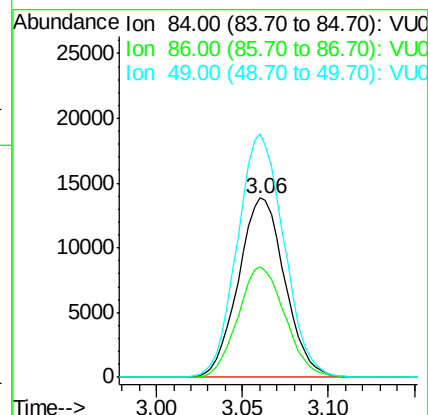
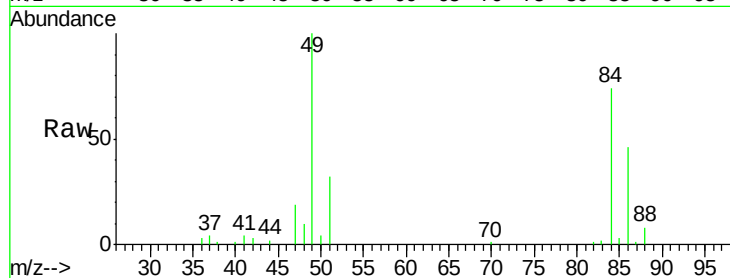
Tot Ion: 84 Resp: 25928

Ion Ratio Lower Upper

84 100

86 61.7 45.4 84.4

49 135.7 102.9 191.1



#17

trans-1,2-Dichloroethene

Concen: 13.403 ug/L

RT: 3.37 min Scan# 631

Delta R.T. -0.00 min

Lab File: VU040533.D

Acq: 06 Oct 2020 17:52

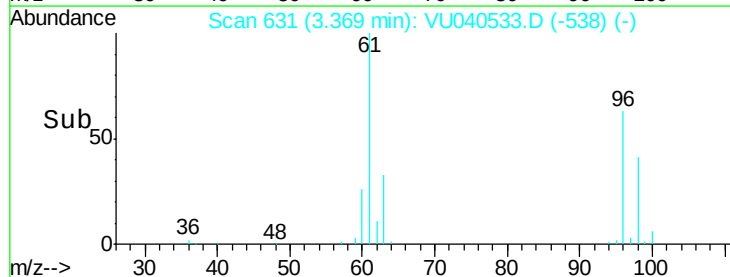
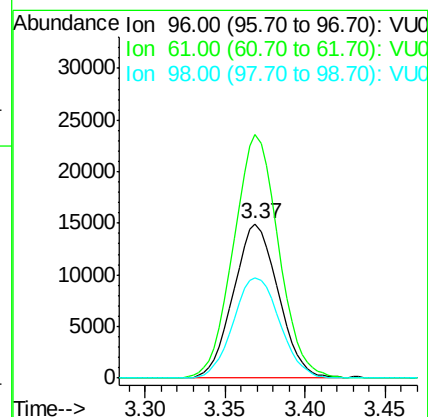
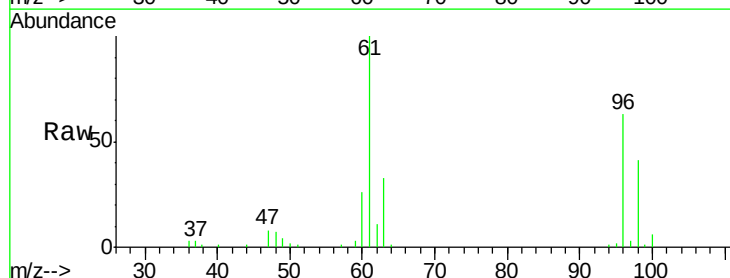
Tgt Ion: 96 Resp: 28617

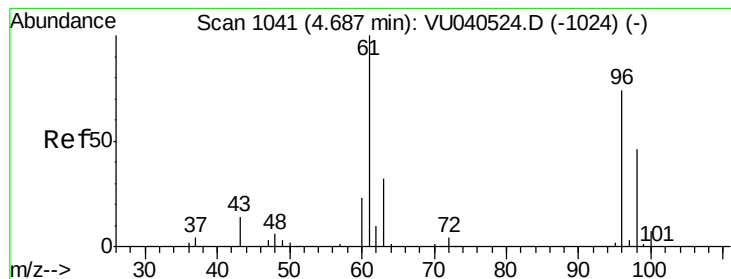
Ion Ratio Lower Upper

96 100

61 158.1 109.6 203.6

98 65.1 43.3 80.3





#20

cis-1,2-Dichloroethene

Concen: 10.251 ug/L

RT: 4.69 min Scan# 1041

Delta R.T. -0.00 min

Lab File: VU040533.D

Acq: 06 Oct 2020 17:52

Instrument :

MSVOA_U

ClientSampleId :

TEST

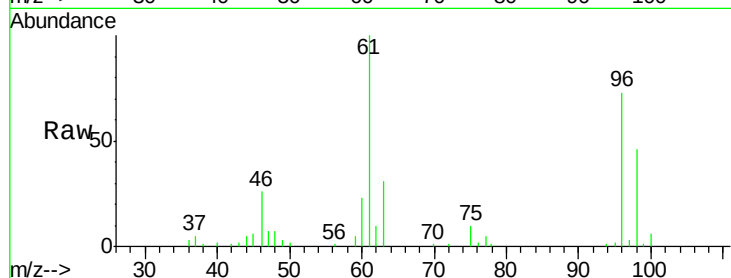
Tot Ion: 96 Resp: 23589

Ion Ratio Lower Upper

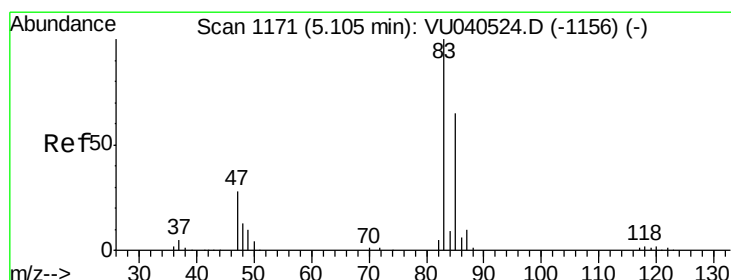
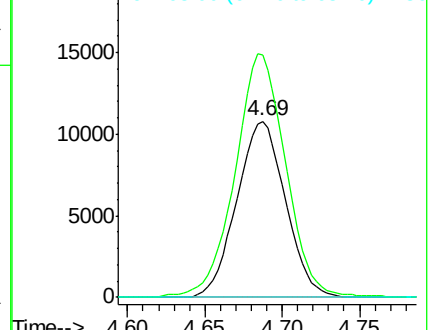
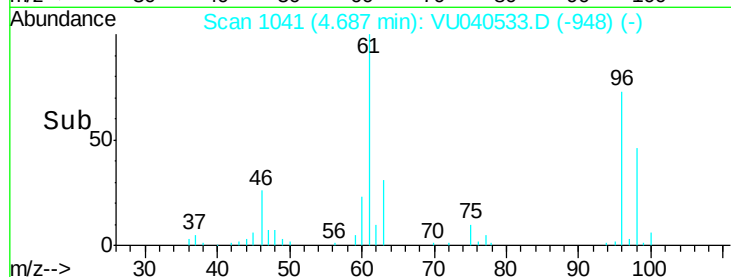
96 100

61 137.6 95.7 177.7

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU040524.D (-1024) (-)



#25

Chloroform

Concen: 0.812 ug/L

RT: 5.10 min Scan# 1170

Delta R.T. -0.00 min

Lab File: VU040533.D

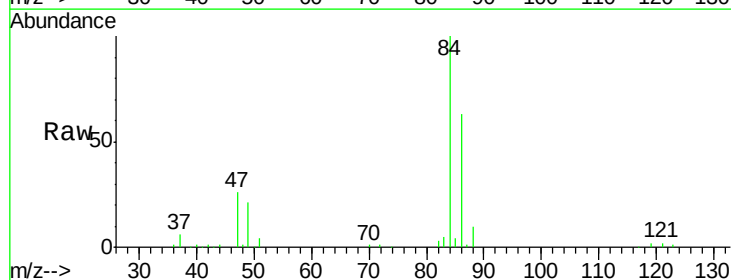
Acq: 06 Oct 2020 17:52

Tgt Ion: 83 Resp: 3528

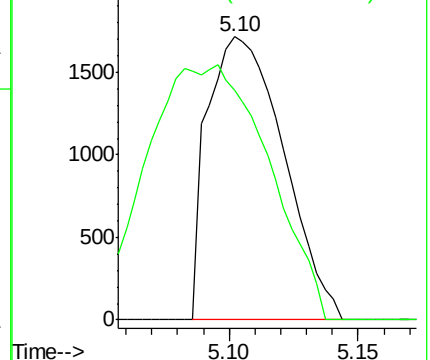
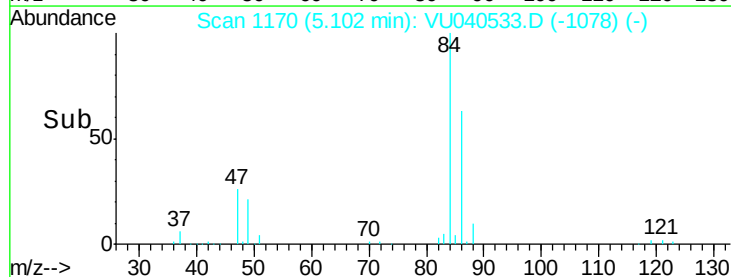
Ion Ratio Lower Upper

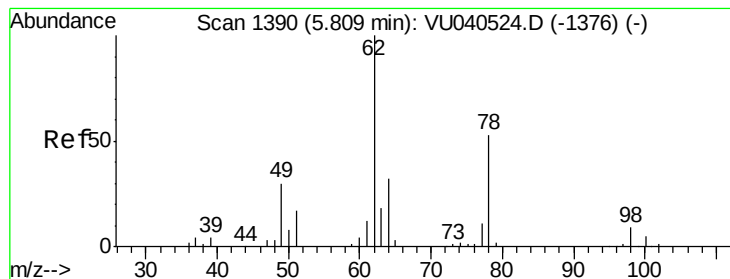
83 100

85 80.9 45.6 84.8



Abundance Ion 83.00 (82.70 to 83.70): VU040524.D (-1156) (-)





#27

1,2-Dichloroethane

Concen: 6.936 ug/L

RT: 5.81 min Scan# 1391

Delta R.T. 0.00 min

Lab File: VU040533.D

Acq: 06 Oct 2020 17:52

Instrument :

MSVOA_U

ClientSampleId :

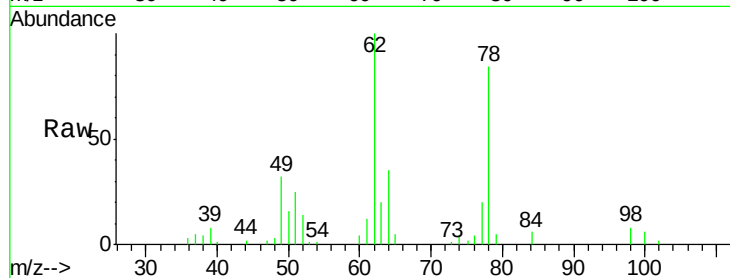
TEST

Tot Ion: 62 Resp: 24856

Ion Ratio Lower Upper

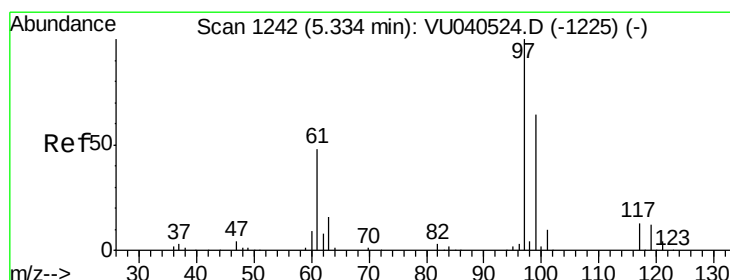
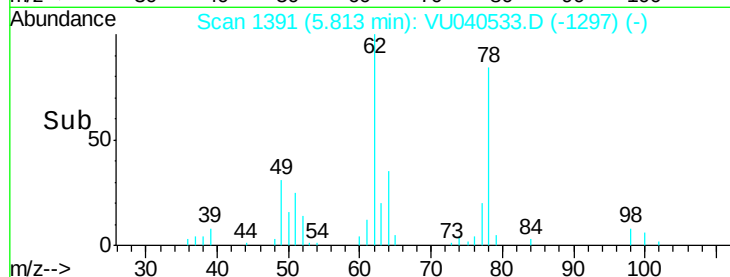
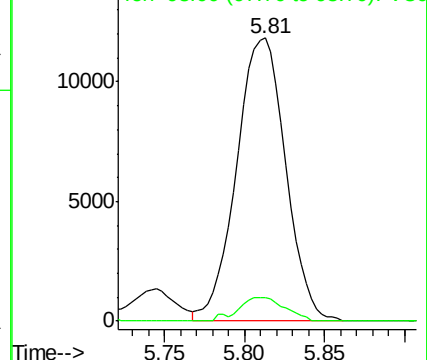
62 100

98 8.1 7.1 10.7



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 98.00 (97.70 to 98.70): VU0



#30

1,1,1-Trichloroethane

Concen: 9.413 ug/L

RT: 5.33 min Scan# 1242

Delta R.T. -0.00 min

Lab File: VU040533.D

Acq: 06 Oct 2020 17:52

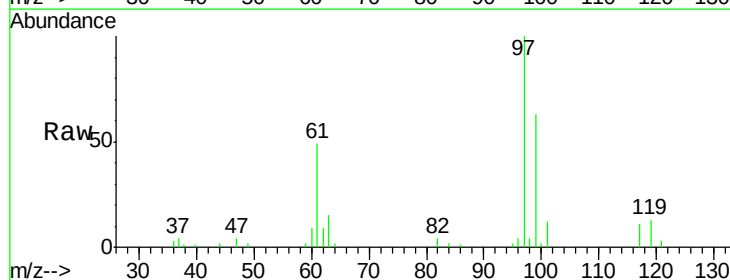
Tgt Ion: 97 Resp: 33149

Ion Ratio Lower Upper

97 100

99 62.4 51.0 76.6

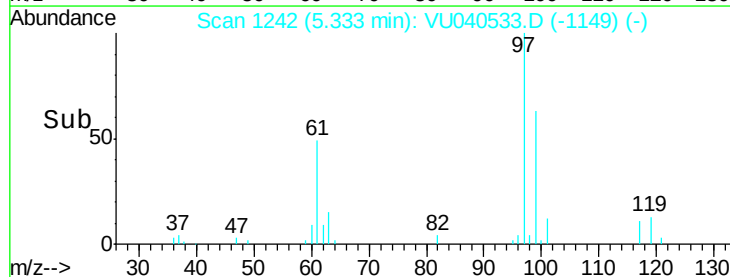
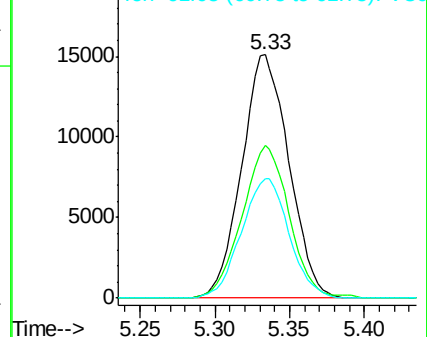
61 49.5 39.4 59.2

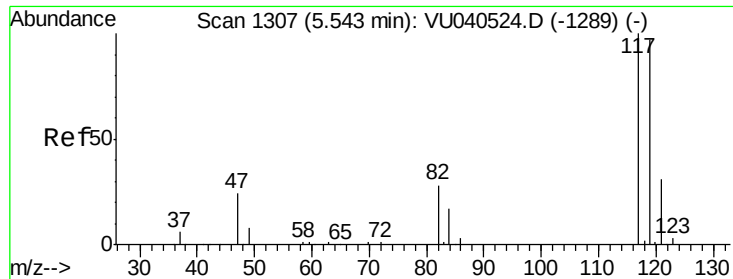


Abundance Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

Ion 61.05 (60.75 to 61.75): VU0





#31

Carbon tetrachloride

Concen: 11.380 ug/L

RT: 5.54 min Scan# 1307

Delta R.T. -0.00 min

Lab File: VU040533.D

Acq: 06 Oct 2020 17:52

Instrument :

MSVOA_U

ClientSampleId :

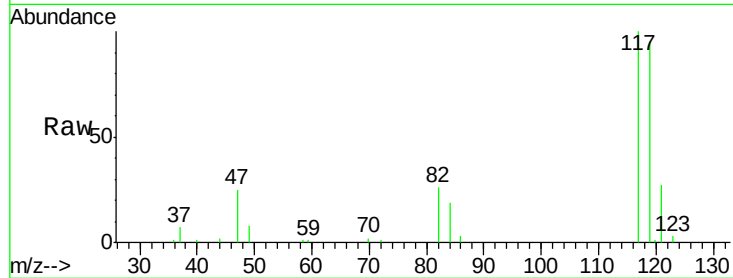
TEST

Tot Ion:117 Resp: 34652

Ion Ratio Lower Upper

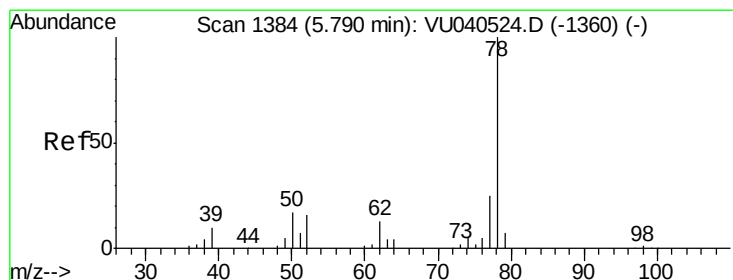
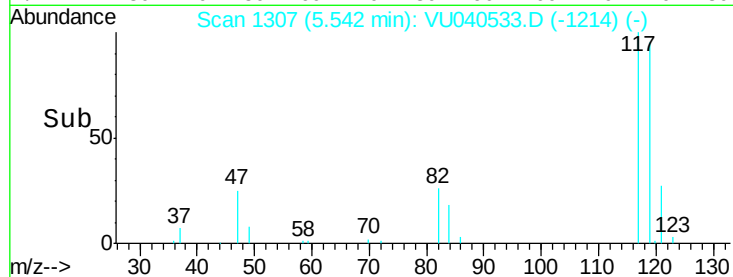
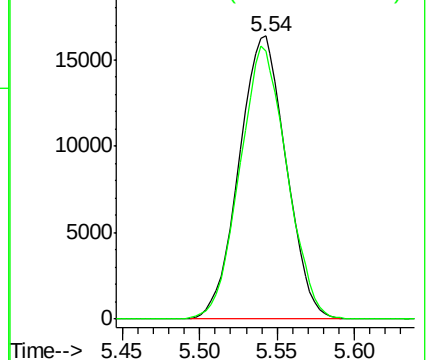
117 100

119 96.8 75.8 113.6



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 9.992 ug/L

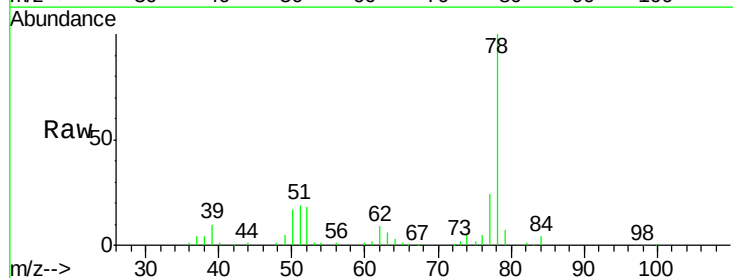
RT: 5.79 min Scan# 1384

Delta R.T. -0.00 min

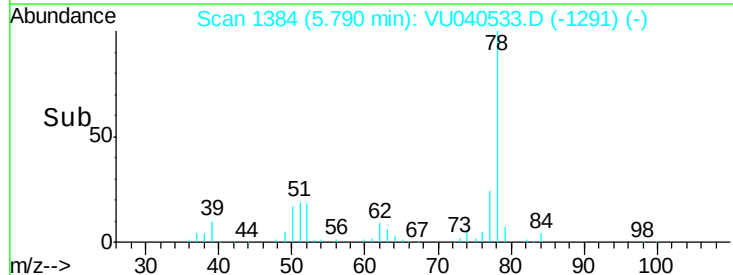
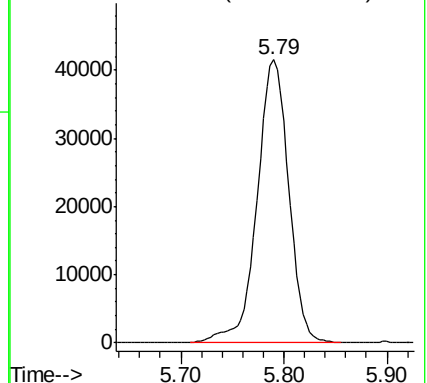
Lab File: VU040533.D

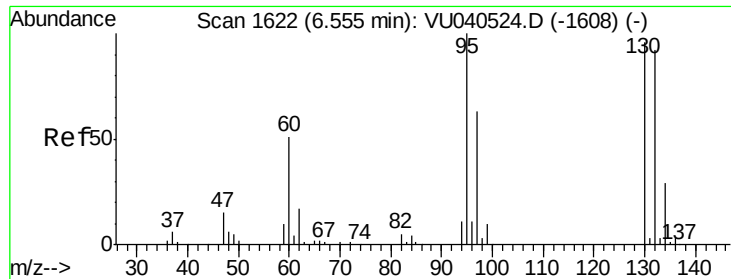
Acq: 06 Oct 2020 17:52

Tgt Ion: 78 Resp: 88558



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 11.732 ug/L

RT: 6.56 min Scan# 1622

Delta R.T. -0.00 min

Lab File: VU040533.D

Acq: 06 Oct 2020 17:52

Instrument :

MSVOA_U

ClientSampleId :

TEST

Tot Ion: 95 Resp: 26785

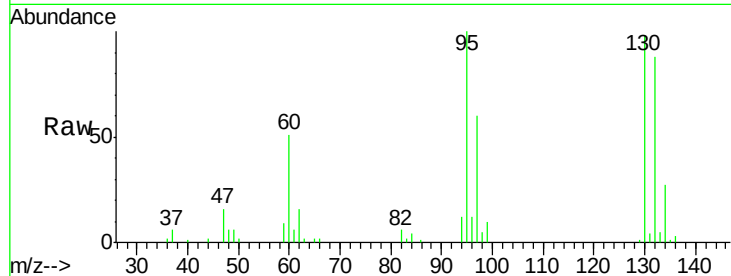
Ion Ratio Lower Upper

95 100

97 60.0 44.3 82.3

132 87.5 64.2 119.2

130 98.1 67.3 125.1

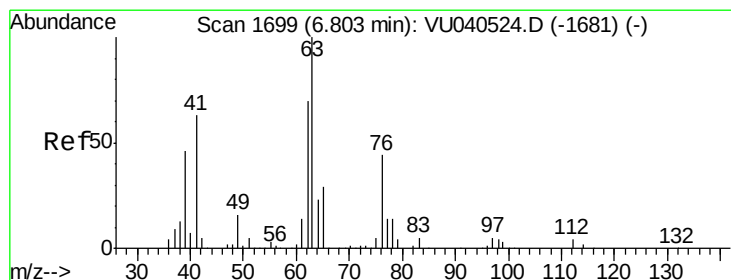
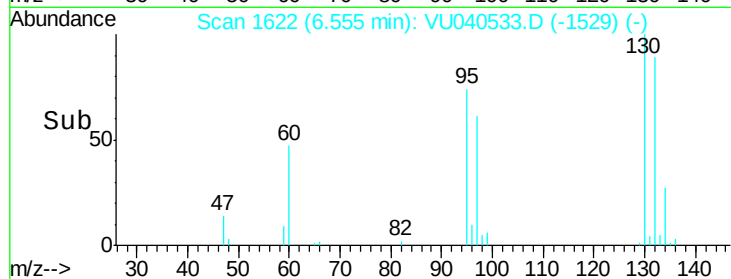
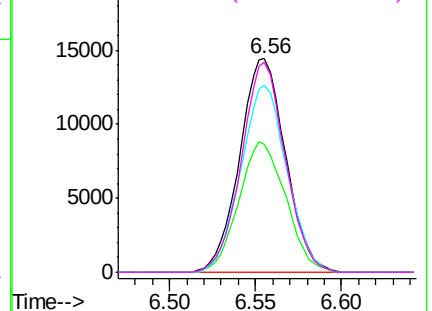


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#37

1,2-Dichloropropane

Concen: 18.526 ug/L

RT: 6.80 min Scan# 1699

Delta R.T. -0.00 min

Lab File: VU040533.D

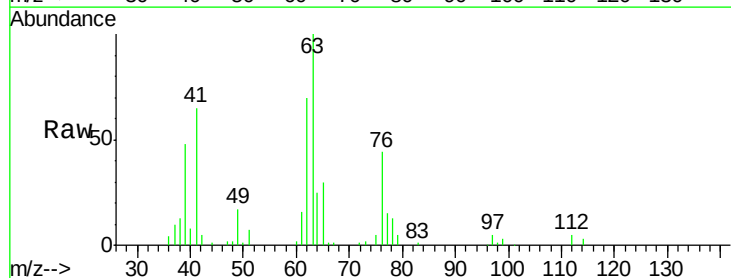
Acq: 06 Oct 2020 17:52

Tgt Ion: 63 Resp: 45086

Ion Ratio Lower Upper

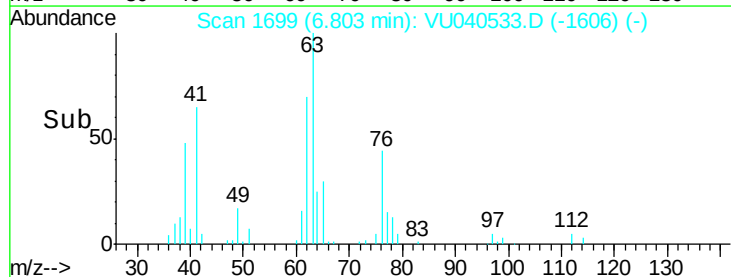
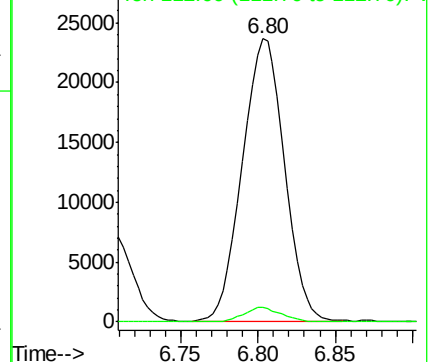
63 100

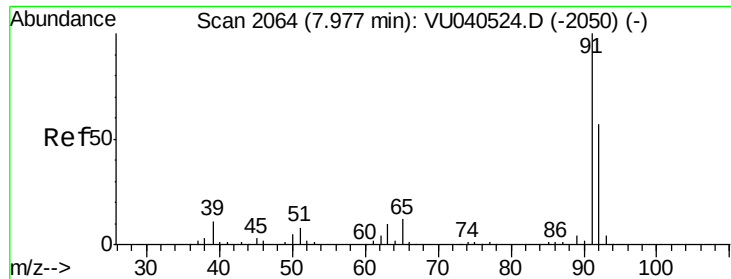
112 4.5 3.5 5.3



Abundance Ion 63.00 (62.70 to 63.70): VU0

Ion 112.00 (111.70 to 112.70): V





#42

Toluene

Concen: 11.303 ug/L

RT: 7.98 min Scan# 2064

Delta R.T. -0.00 min

Lab File: VU040533.D

Acq: 06 Oct 2020 17:52

Instrument :

MSVOA_U

ClientSampleId :

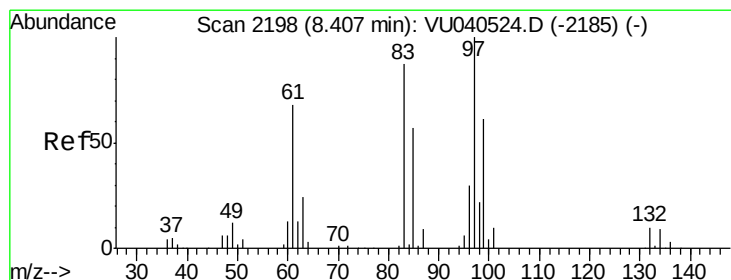
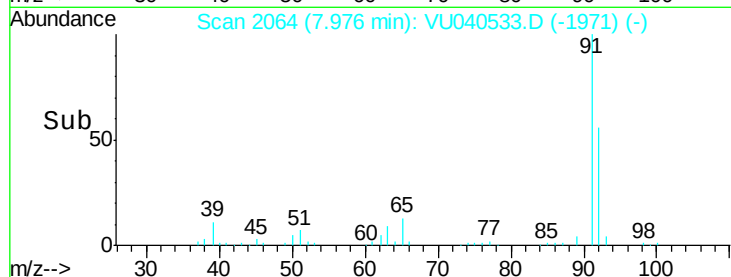
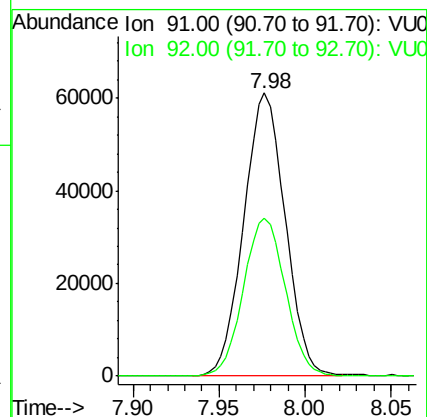
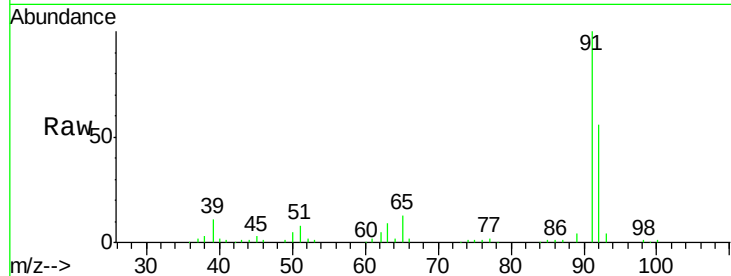
TEST

Tot Ion: 91 Resp: 102274

Ion Ratio Lower Upper

91 100

92 55.8 39.9 74.1



#45

1,1,2-Trichloroethane

Concen: 17.603 ug/L

RT: 8.40 min Scan# 2197

Delta R.T. -0.00 min

Lab File: VU040533.D

Acq: 06 Oct 2020 17:52

Tgt Ion: 97 Resp: 38377

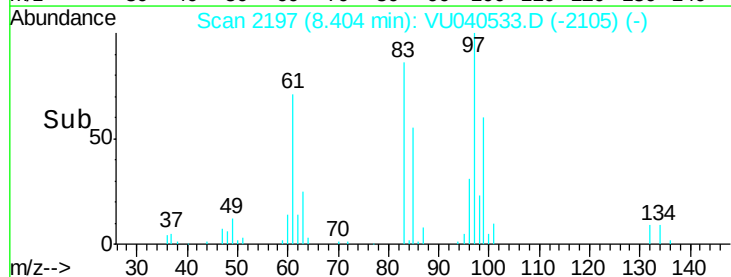
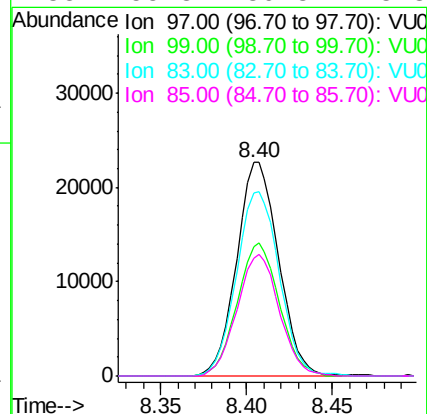
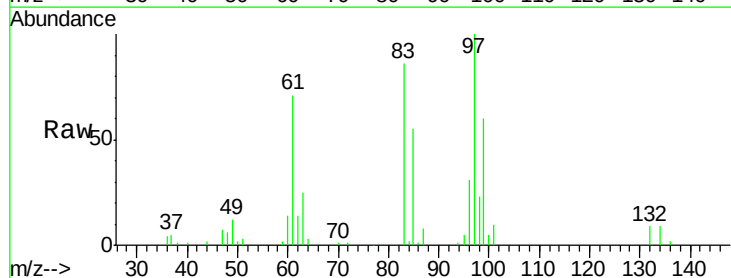
Ion Ratio Lower Upper

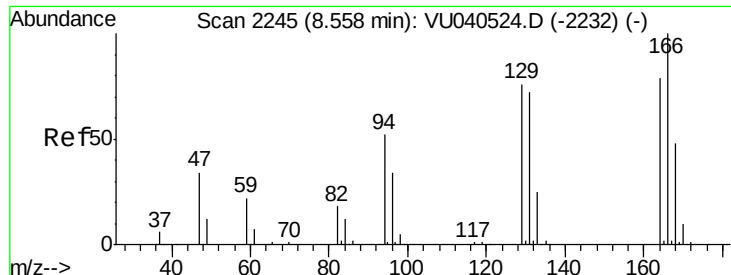
97 100

99 60.3 42.7 79.3

83 85.7 61.0 113.4

85 55.3 39.8 73.8

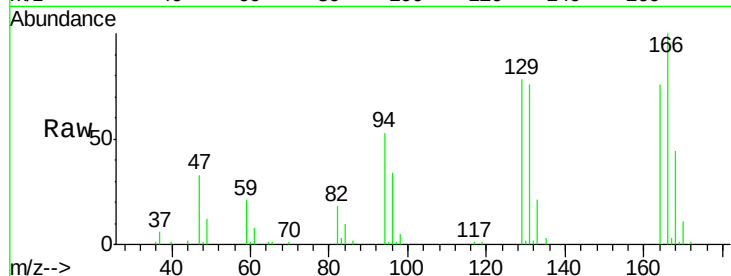




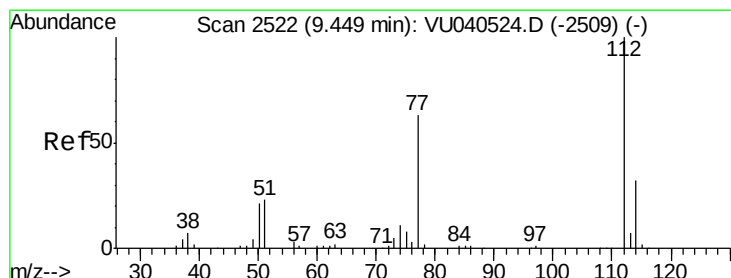
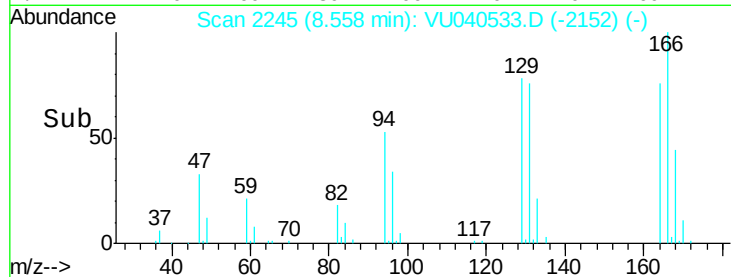
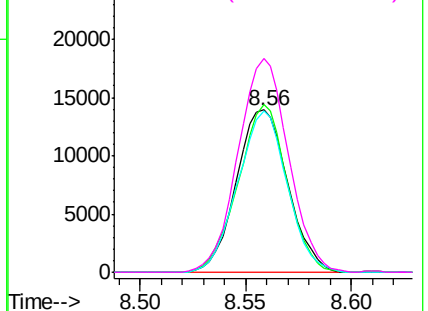
#46
Tetrachloroethene
Concen: 14.282 ug/L
RT: 8.56 min Scan# 2245
Delta R.T. -0.00 min
Lab File: VU040533.D
Acq: 06 Oct 2020 17:52

Instrument :
MSVOA_U
ClientSampleId :
TEST

Tot Ion:164 Resp: 23561
Ion Ratio Lower Upper
164 100
129 103.3 67.4 125.2
131 99.5 63.8 118.6
166 131.6 88.7 164.7

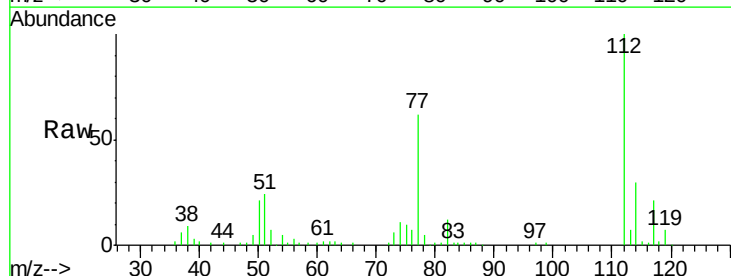


Abundance Ion 164.00 (163.70 to 164.70): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V
Ion 166.00 (165.70 to 166.70): V

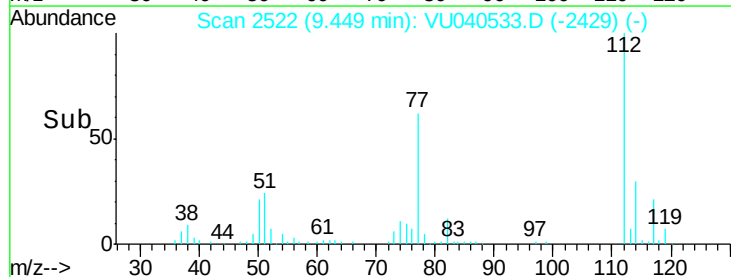
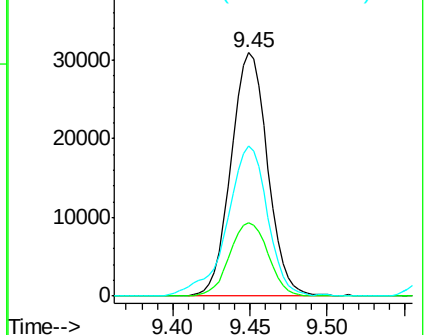


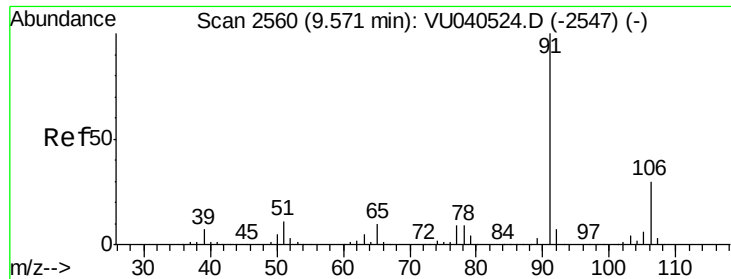
#51
Chlorobenzene
Concen: 8.561 ug/L
RT: 9.45 min Scan# 2522
Delta R.T. -0.00 min
Lab File: VU040533.D
Acq: 06 Oct 2020 17:52

Tgt Ion:112 Resp: 50808
Ion Ratio Lower Upper
112 100
114 29.9 22.1 41.1
77 61.5 50.4 75.6



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

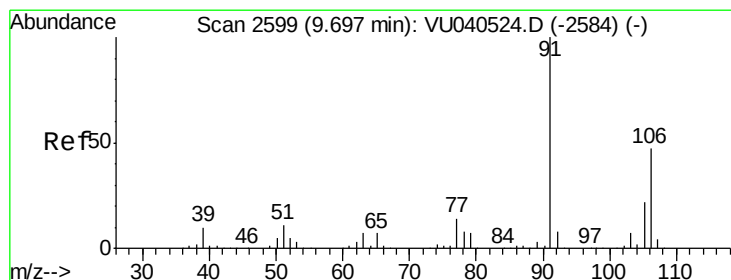
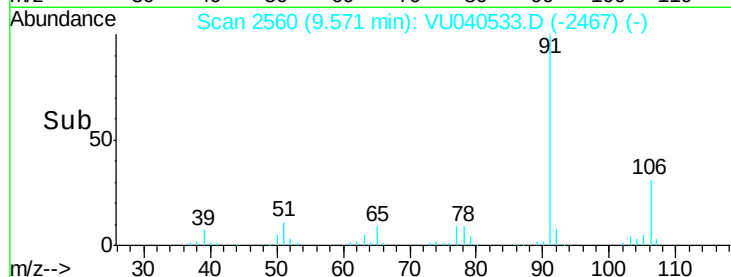
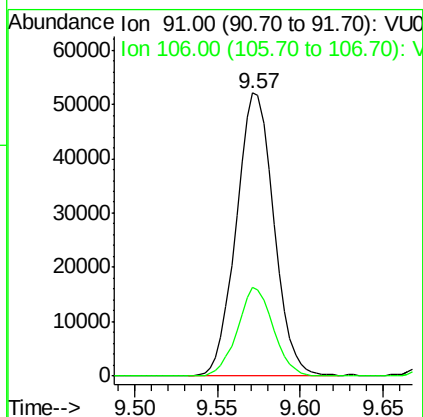
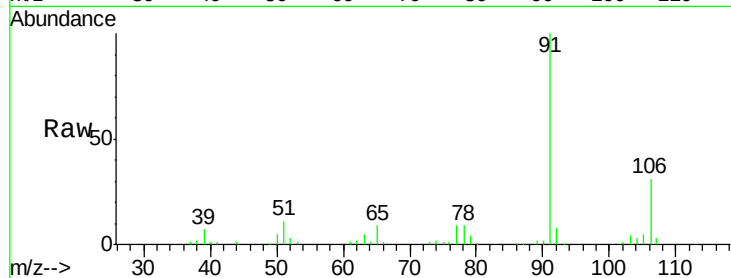




#52
Ethylbenzene
Concen: 8.198 ug/L
RT: 9.57 min Scan# 2560
Delta R.T. -0.00 min
Lab File: VU040533.D
Acq: 06 Oct 2020 17:52

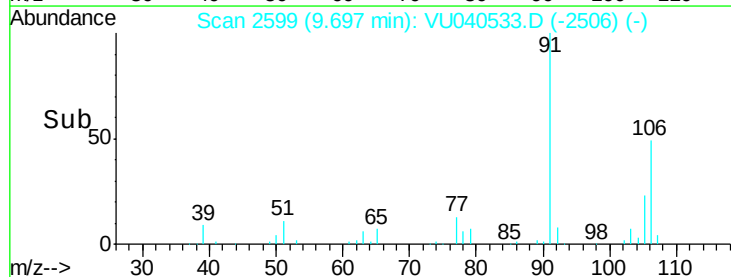
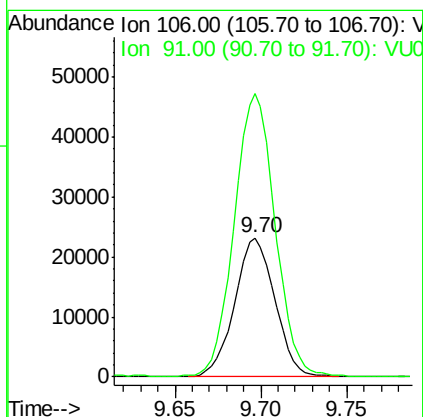
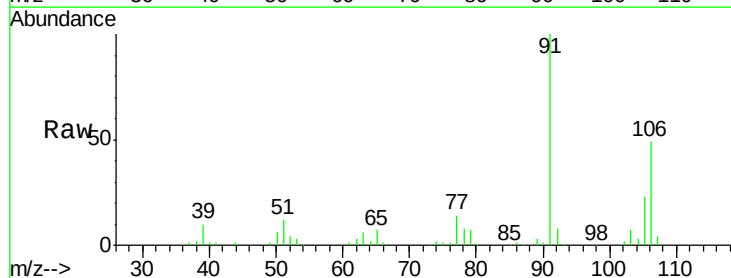
Instrument :
MSVOA_U
ClientSampleId :
TEST

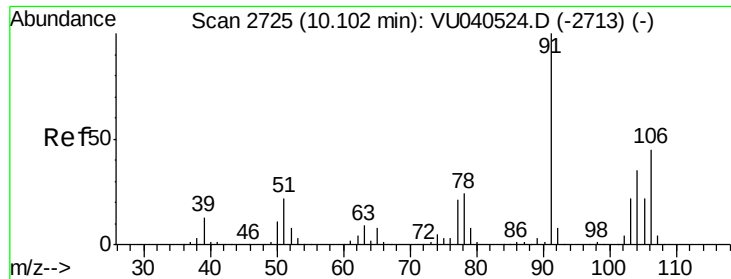
Tot Ion: 91 Resp: 82336
Ion Ratio Lower Upper
91 100
106 31.3 20.9 38.9



#53
m,p-Xylene
Concen: 10.216 ug/L
RT: 9.70 min Scan# 2599
Delta R.T. -0.00 min
Lab File: VU040533.D
Acq: 06 Oct 2020 17:52

Tgt Ion: 106 Resp: 37780
Ion Ratio Lower Upper
106 100
91 203.1 150.1 278.7

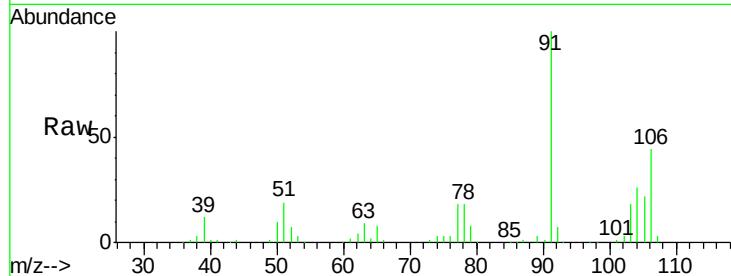




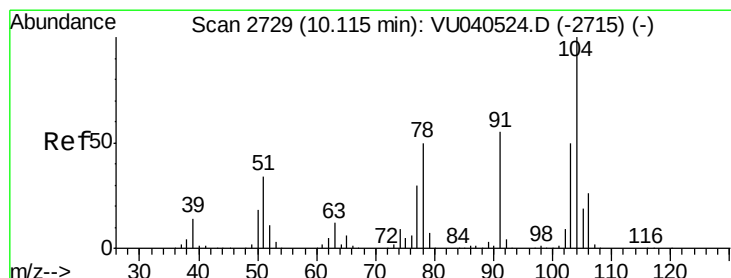
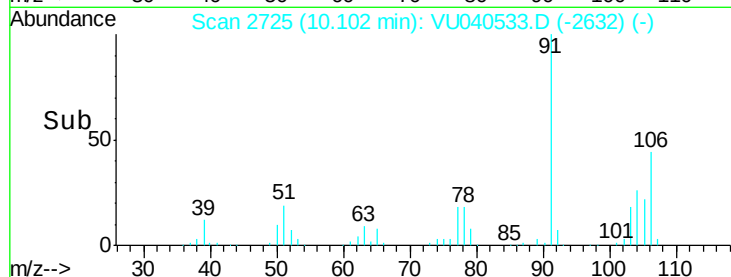
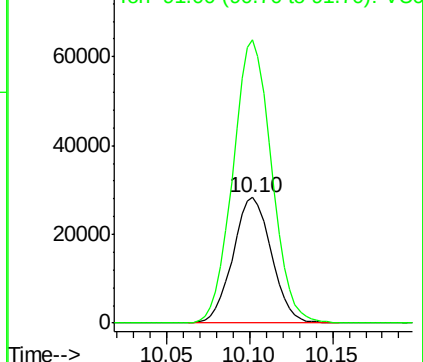
#54
o-xylene
Concen: 13.027 ug/L
RT: 10.10 min Scan# 2725
Delta R.T. -0.00 min
Lab File: VU040533.D
Acq: 06 Oct 2020 17:52

Instrument :
MSVOA_U
ClientSampled :
TEST

Tot Ion:106 Resp: 45837
Ion Ratio Lower Upper
106 100
91 225.1 155.6 289.0

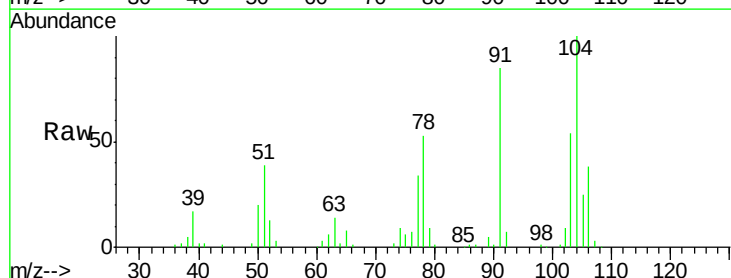


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VU0

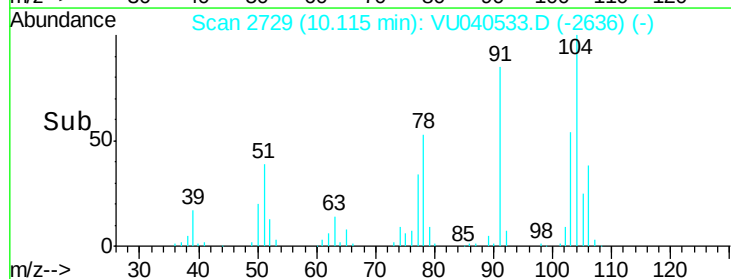
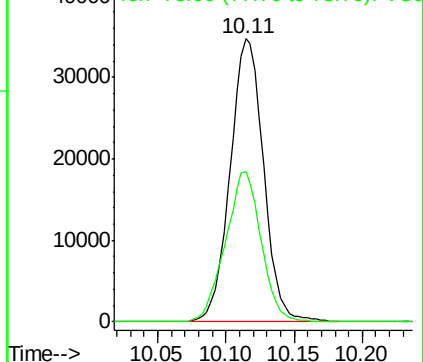


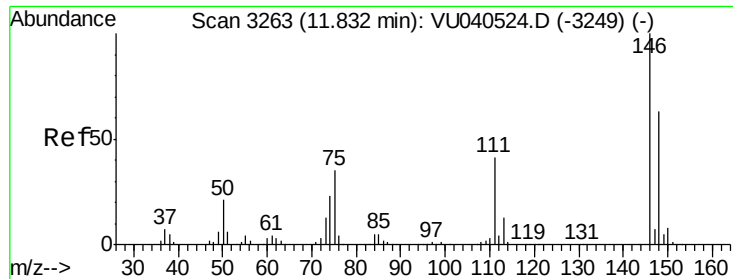
#55
Styrene
Concen: 9.536 ug/L
RT: 10.11 min Scan# 2729
Delta R.T. -0.00 min
Lab File: VU040533.D
Acq: 06 Oct 2020 17:52

Tgt Ion:104 Resp: 59099
Ion Ratio Lower Upper
104 100
78 52.9 35.2 65.4



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VU0

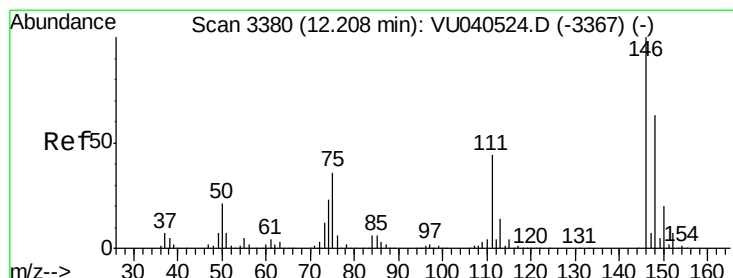
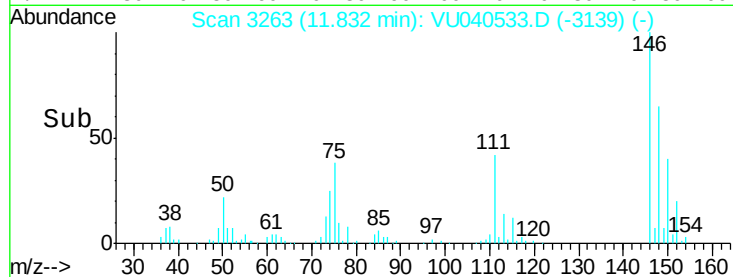
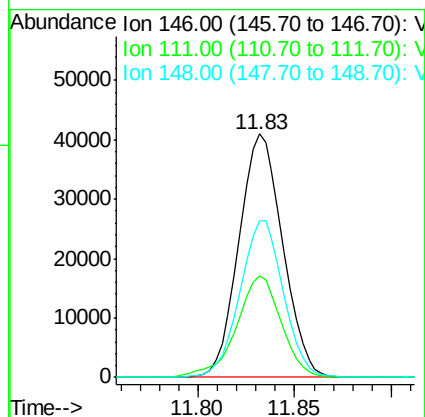
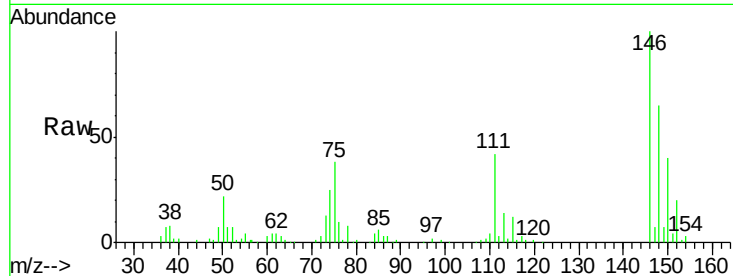




#65
 1,4-Dichlorobenzene
 Concen: 14.312 ug/L
 RT: 11.83 min Scan# 3263
 Delta R.T. -0.00 min
 Lab File: VU040533.D
 Acq: 06 Oct 2020 17:52

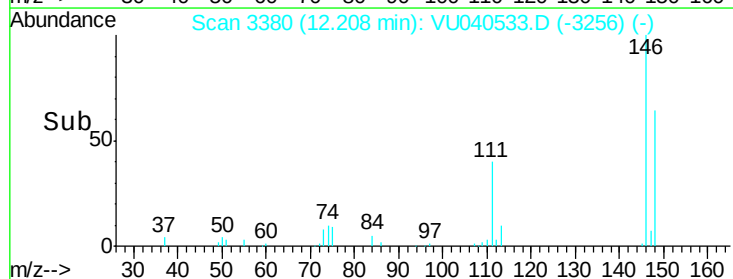
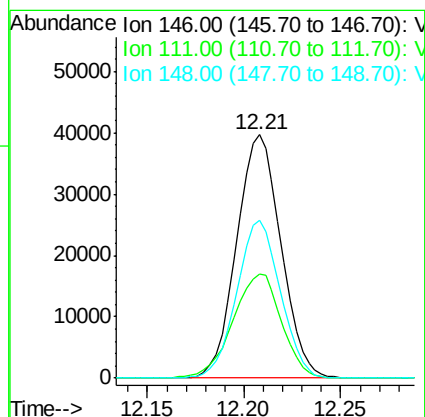
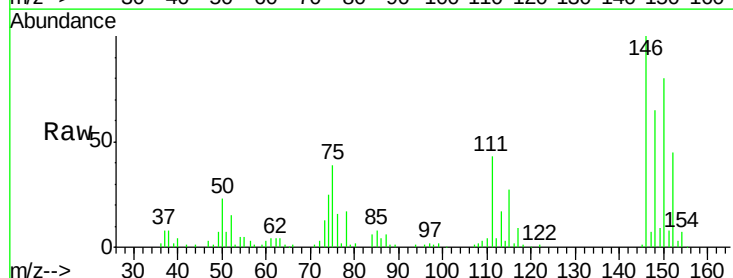
Instrument :
 MSVOA_U
 ClientSampleId :
 TEST

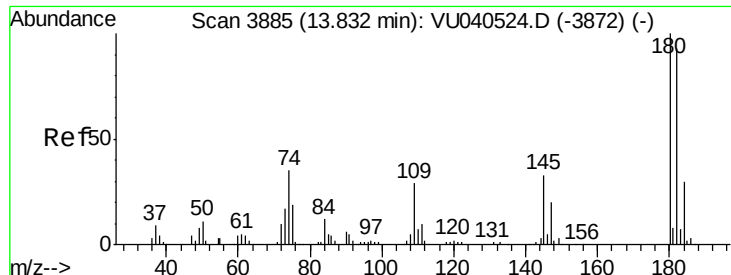
Tot Ion:146 Resp: 64550
 Ion Ratio Lower Upper
 146 100
 111 41.9 28.7 53.3
 148 64.5 44.1 81.9



#67
 1,2-Dichlorobenzene
 Concen: 14.710 ug/L
 RT: 12.21 min Scan# 3380
 Delta R.T. -0.00 min
 Lab File: VU040533.D
 Acq: 06 Oct 2020 17:52

Tgt Ion:146 Resp: 63277
 Ion Ratio Lower Upper
 146 100
 111 42.9 35.7 53.5
 148 64.7 50.6 75.8





#70

1,2,4-trichlorobenzene

Concen: 15.957 ug/L

RT: 13.83 min Scan# 3885

Delta R.T. -0.00 min

Lab File: VU040533.D

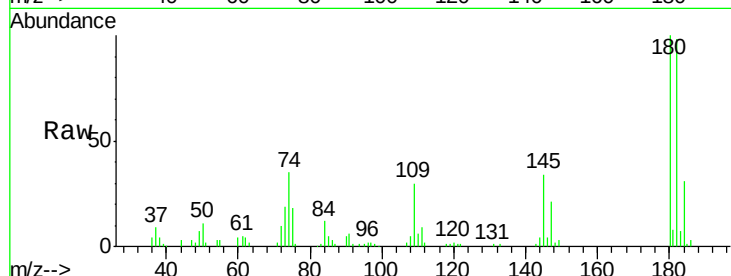
Acq: 06 Oct 2020 17:52

Instrument :

MSVOA_U

ClientSampleId :

TEST



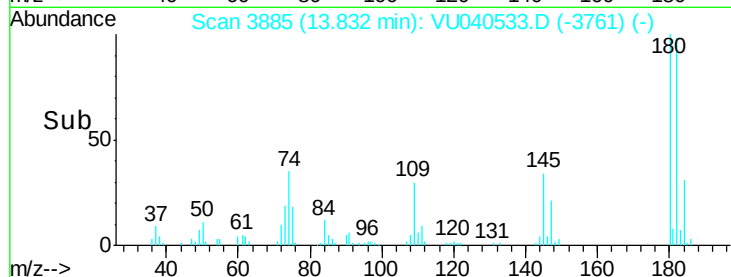
Tot Ion:180 Resp: 38912

Ion Ratio Lower Upper

180 100

182 97.5 75.0 112.6

145 34.0 25.9 38.9



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

