

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU091620\
 Data File : VU040165.D
 Acq On : 16 Sep 2020 22:41
 Operator : SY/MD
 Sample : L4046-03
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BG0P1

Quant Time: Sep 17 02:09:09 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR083120WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu Sep 17 02:07:00 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	117008	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	112389	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	53496	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	29751	4.66	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	93.20%
7) Chloroethane-d5	1.92	69	27390	5.15	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	103.00%
11) 1,1-Dichloroethene-d2	2.58	63	50247	3.07	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	61.40%
20) 2-Butanone-d5	4.67	46	124946	48.90	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	97.80%
24) Chloroform-d	5.08	84	64950	4.35	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	87.00%
26) 1,2-Dichloroethane-d4	5.72	65	40195	4.36	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	87.20%
32) Benzene-d6	5.75	84	122419	4.67	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	93.40%
36) 1,2-Dichloropropane-d6	6.70	67	40323	4.66	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	93.20%
41) Toluene-d8	7.91	98	100199	4.23	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	84.60%
43) trans-1,3-Dichloropropene-	8.19	79	15501	3.90	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	78.00%
46) 2-Hexanone-d5	8.64	63	86269	45.84	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	91.68%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	34614	4.63	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	92.60%
64) 1,2-Dichlorobenzene-d4	12.19	152	41890	4.84	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	96.80%

Target Compounds

					Ovalue
8) Chloroethane	1.94	64	1449	0.214 ug/L #	82
12) 1,1-Dichloroethene	2.58	96	504	0.056 ug/L #	1
13) Acetone	2.68	43	1716	0.725 ug/L	73
16) Methylene chloride	3.06	84	1309	0.110 ug/L	82
17) Methyl tert-butyl Ether	3.39	73	16113	0.590 ug/L #	87
19) 1,1-Dichloroethane	3.90	63	894	0.045 ug/L #	81
22) cis-1,2-Dichloroethene	4.68	96	703	0.067 ug/L #	55
25) Chloroform	5.10	83	4199	0.205 ug/L	95
33) Benzene	5.79	78	36526	0.908 ug/L	100
35) Methylcyclohexane	6.70	83	10060	0.609 ug/L #	16
37) 1,2-Dichloropropane	6.70	63	4961	0.456 ug/L #	88
39) cis-1,3-Dichloropropene	7.57	75	1461	0.091 ug/L #	81
42) Toluene	7.98	91	1693	0.041 ug/L	97
45) 1,1,2-Trichloroethane	8.38	97	928	0.117 ug/L #	14
48) 2-Hexanone	8.64	43	12148	1.864 ug/L #	74
51) Chlorobenzene	9.45	112	147203	5.726 ug/L	95
56) Isopropylbenzene	10.48	105	10232	0.235 ug/L	98

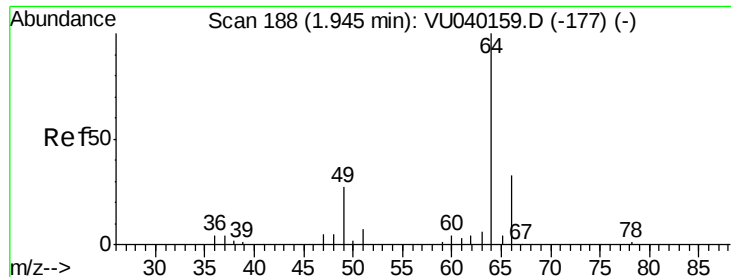
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU091620\
Data File : VU040165.D
Acq On : 16 Sep 2020 22:41
Operator : SY/MD
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Quant Time: Sep 17 02:09:09 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR083120WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Sep 17 02:07:00 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
59) 1,2,3-Trichloropropane	11.81	75	9143	1.134	ug/L #	89
63) 1,4-Dichlorobenzene	11.83	146	22092	1.117	ug/L	98
65) 1,2-Dichlorobenzene	12.20	146	7243	0.383	ug/L	96
69) Naphthalene	14.08	128	2895	0.117	ug/L #	85

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



#8

Chloroethane

Concen: 0.214 ug/L

RT: 1.94 min Scan# 187

Delta R.T. -0.00 min

Lab File: VU040165.D

Acq: 16 Sep 2020 22:41

Instrument :

MSVOA_U

ClientSampled :

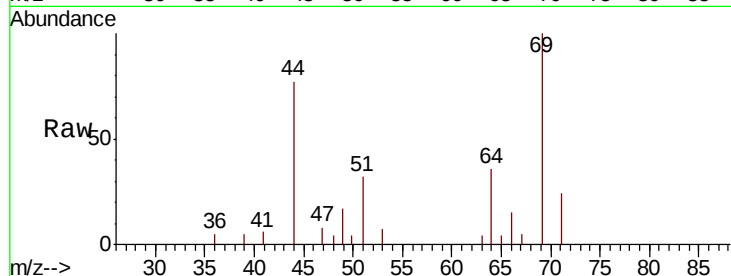
BG0P1

Tot Ion: 64 Resp: 1449

Ion Ratio Lower Upper

64 100

66 42.3 22.7 42.1#



Abundance Ion 64.10 (63.80 to 64.80): VU0

Ion 66.05 (65.75 to 66.75): VU0

1.94

800

600

400

200

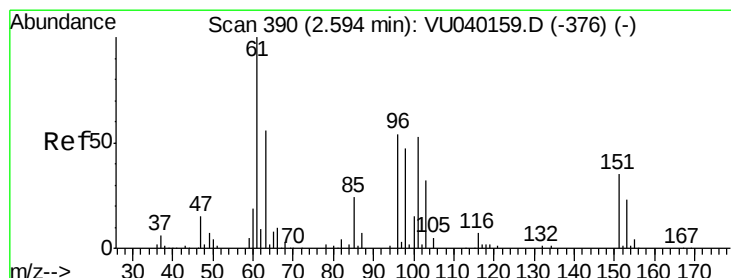
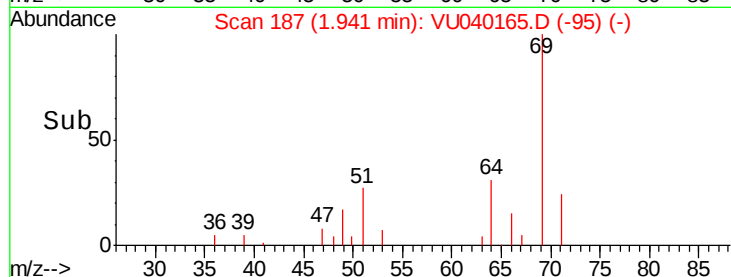
0

1.90

1.95

2.00

Time-->



#12

1,1-Dichloroethene

Concen: 0.056 ug/L

RT: 2.58 min Scan# 385

Delta R.T. -0.02 min

Lab File: VU040165.D

Acq: 16 Sep 2020 22:41

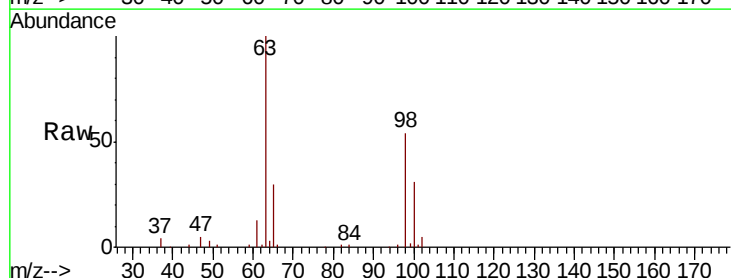
Tgt Ion: 96 Resp: 504

Ion Ratio Lower Upper

96 100

61 1307.7 138.3 256.8#

63 9876.1 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

40000

30000

20000

10000

0

2.54

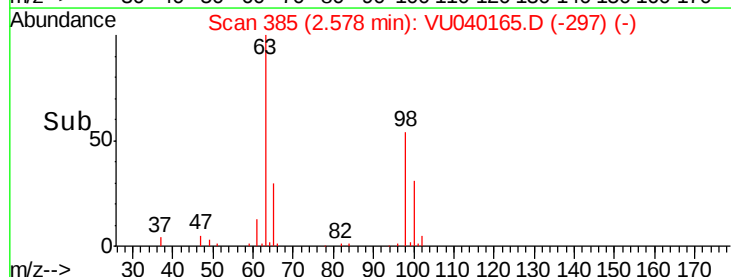
2.56

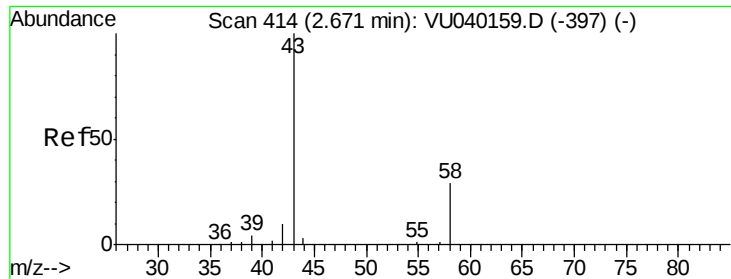
2.58

2.60

2.62

Time-->





#13

Acetone

Concen: 0.725 ug/L

RT: 2.68 min Scan# 416

Delta R.T. 0.01 min

Lab File: VU040165.D

Acq: 16 Sep 2020 22:41

Instrument :

MSVOA_U

ClientSampleId :

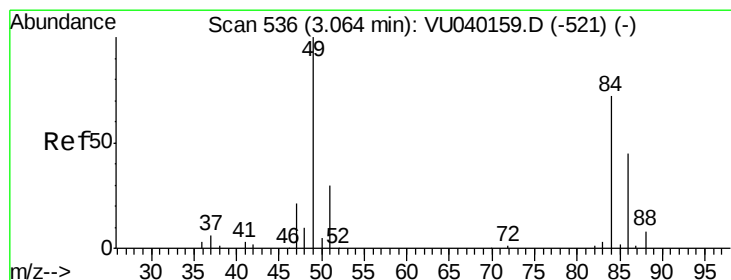
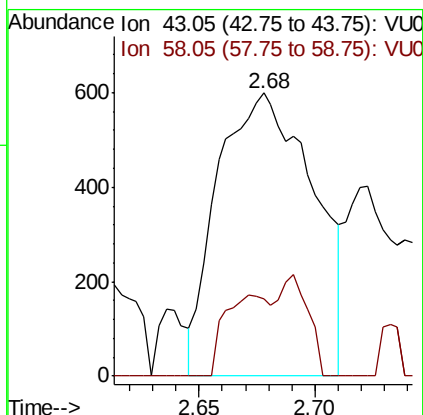
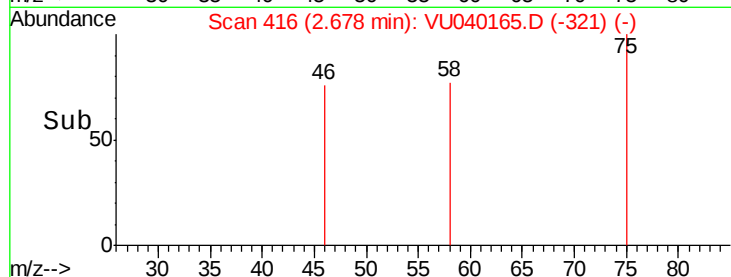
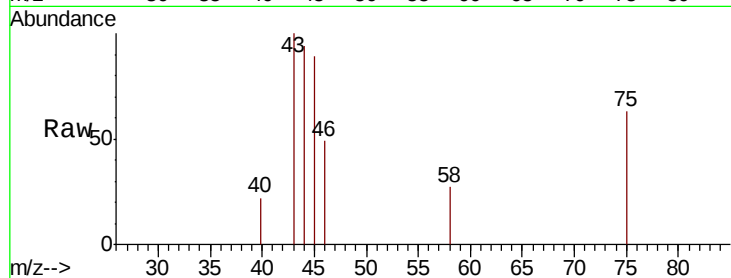
BG0P1

Tot Ion: 43 Resp: 1716

Ion Ratio Lower Upper

43 100

58 13.6 0.0 55.4



#16

Methylene chloride

Concen: 0.110 ug/L

RT: 3.06 min Scan# 536

Delta R.T. -0.00 min

Lab File: VU040165.D

Acq: 16 Sep 2020 22:41

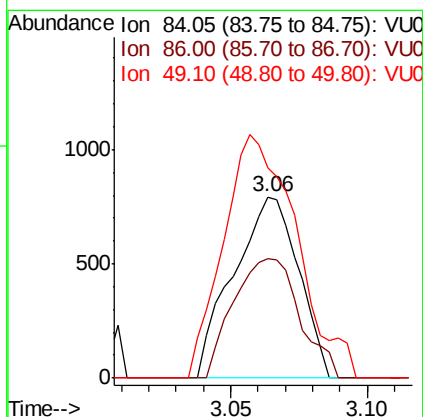
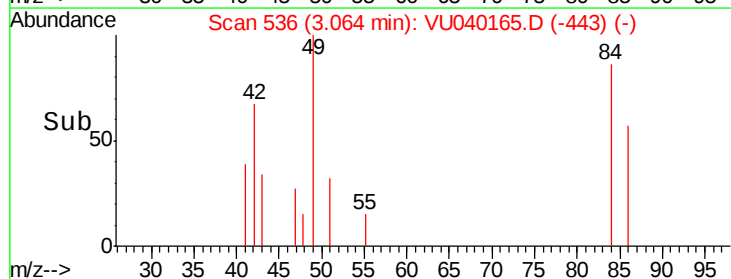
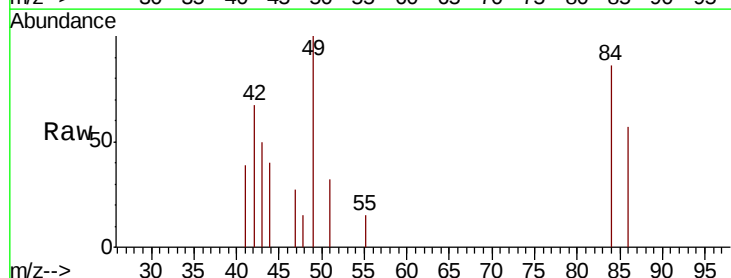
Tgt Ion: 84 Resp: 1309

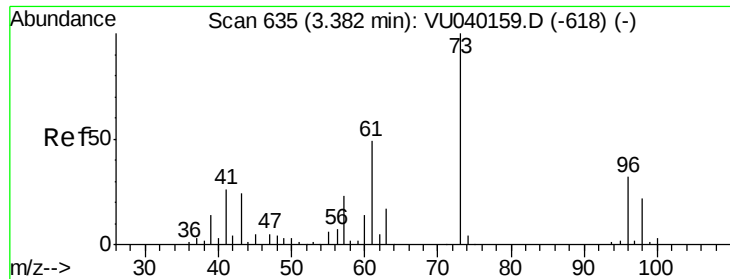
Ion Ratio Lower Upper

84 100

86 66.0 45.2 84.0

49 116.2 104.0 193.2

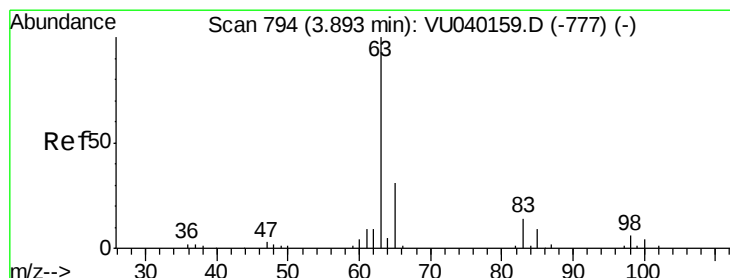
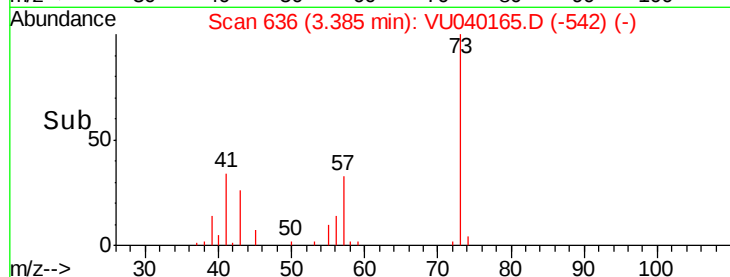
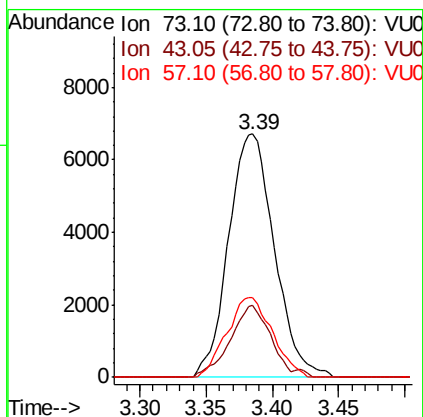
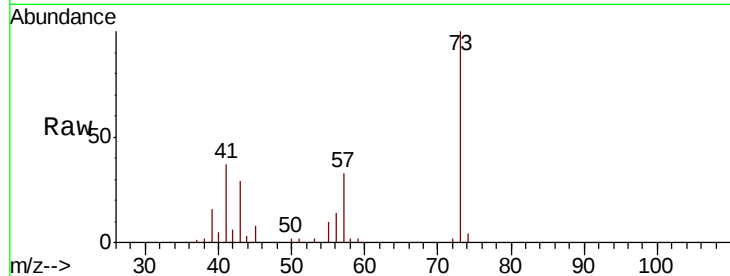




#17
Methvl tert-butvl Ether
Concen: 0.590 ug/L
RT: 3.39 min Scan# 636
Delta R.T. 0.00 min
Lab File: VU040165.D
Acq: 16 Sep 2020 22:41

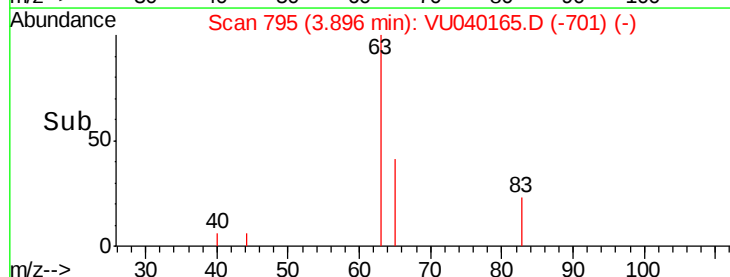
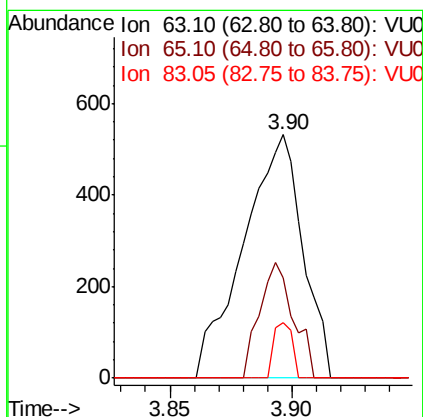
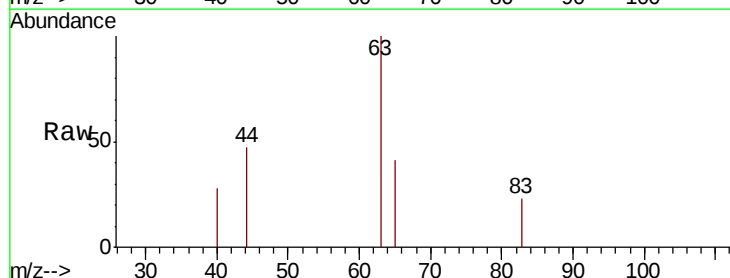
Instrument :
MSVOA_U
ClientSampleId :
BG0P1

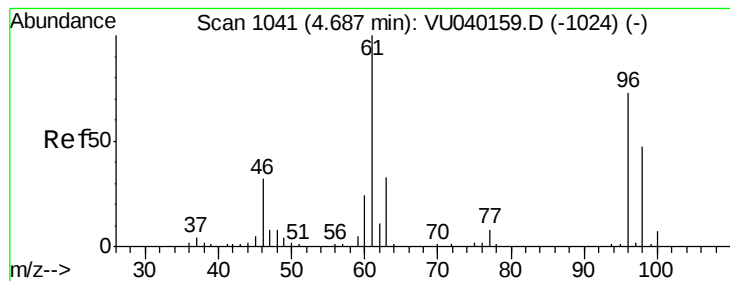
Tot Ion: 73 Resp: 16113
Ion Ratio Lower Upper
73 100
43 26.5 19.1 28.7
57 32.6 18.3 27.5#



#19
1,1-Dichloroethane
Concen: 0.045 ug/L
RT: 3.90 min Scan# 795
Delta R.T. 0.00 min
Lab File: VU040165.D
Acq: 16 Sep 2020 22:41

Tgt Ion: 63 Resp: 894
Ion Ratio Lower Upper
63 100
65 41.4 22.2 41.2#
83 22.9 9.4 17.6#





#22

cis-1,2-Dichloroethene

Concen: 0.067 ug/L

RT: 4.68 min Scan# 1038

Delta R.T. -0.01 min

Lab File: VU040165.D

Acq: 16 Sep 2020 22:41

Instrument :

MSVOA_U

ClientSampleId :

BG0P1

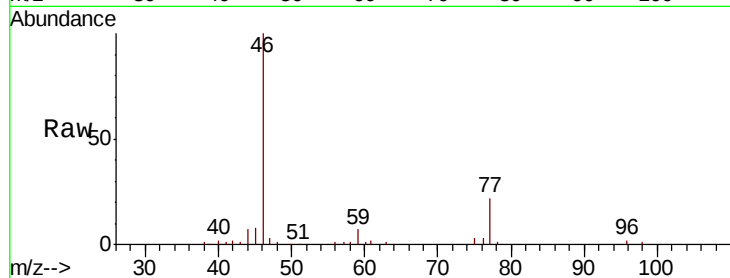
Tot Ion: 96 Resp: 703

Ion Ratio Lower Upper

96 100

61 85.7 98.8 183.4#

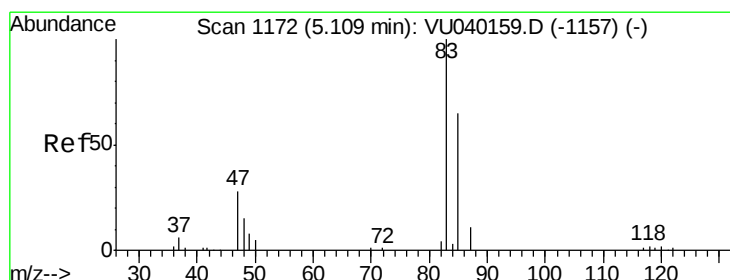
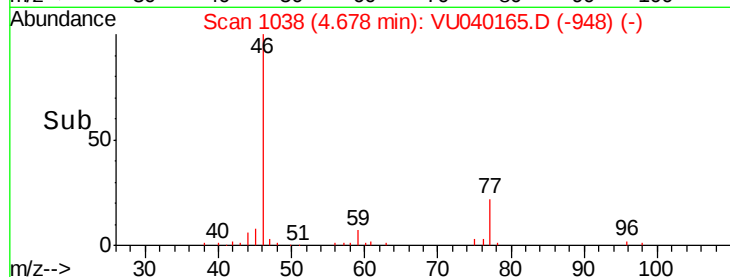
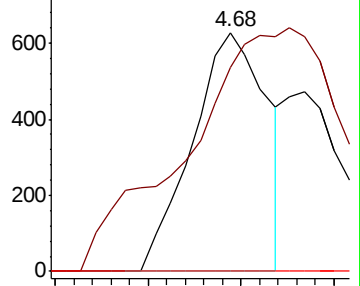
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU040165.D (-948) (-)

Ion 61.05 (60.75 to 61.75): VU040165.D (-948) (-)

Ion 68.15 (67.85 to 68.85): VU040165.D (-948) (-)



#25

Chloroform

Concen: 0.205 ug/L

RT: 5.10 min Scan# 1170

Delta R.T. -0.01 min

Lab File: VU040165.D

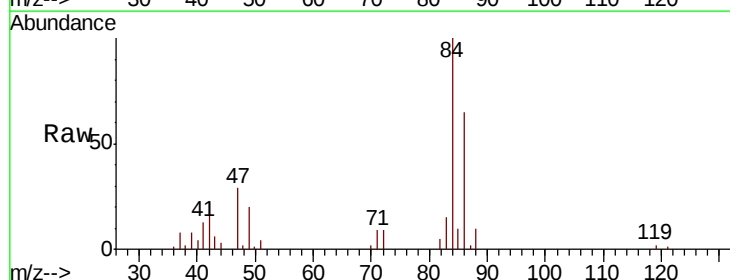
Acq: 16 Sep 2020 22:41

Tgt Ion: 83 Resp: 4199

Ion Ratio Lower Upper

83 100

85 68.3 45.3 84.1



Abundance Ion 83.05 (82.75 to 83.75): VU040165.D (-1079) (-)

Ion 85.00 (84.70 to 85.70): VU040165.D (-1079) (-)

Ion 85.00 (84.70 to 85.70): VU040165.D (-1079) (-)

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Ion 85.00 (84.70 to 85.70): VU040165.D (-1079) (-)

Ion 85.00 (84.70 to 85.70): VU040165.D (-1079) (-)

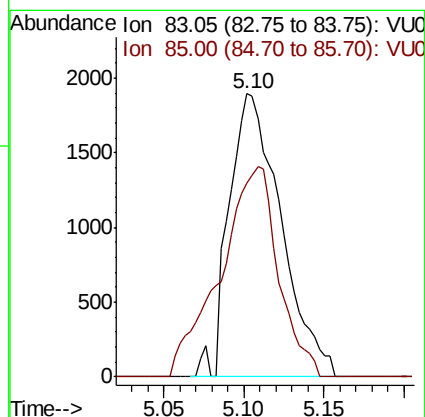
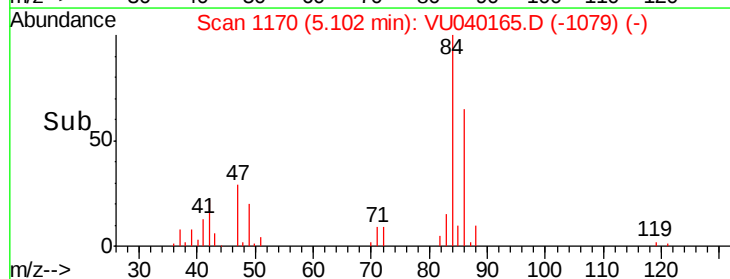
Ion 85.00 (84.70 to 85.70): VU040165.D (-1079) (-)

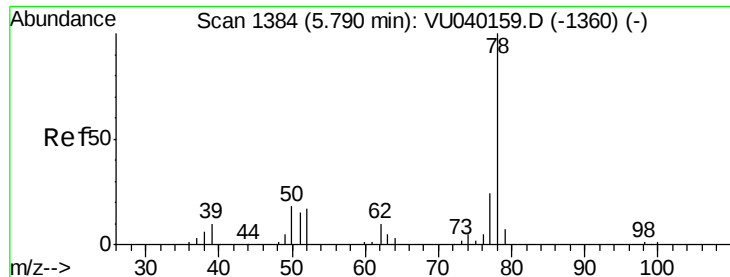
Ion 85.00 (84.70 to 85.70): VU040165.D (-1079) (-)

Ion 85.00 (84.70 to 85.70): VU040165.D (-1079) (-)

Ion 85.00 (84.70 to 85.70): VU040165.D (-1079) (-)

Ion 85.00 (84.70 to 85.70): VU040165.D (-1079) (-)

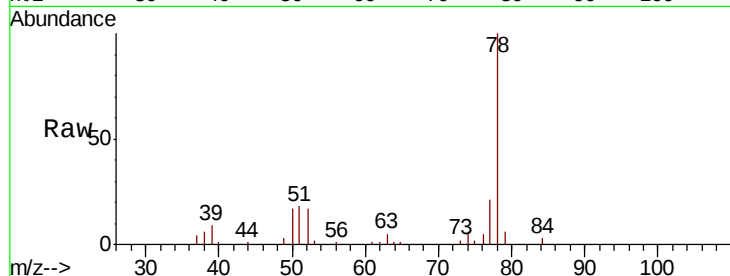




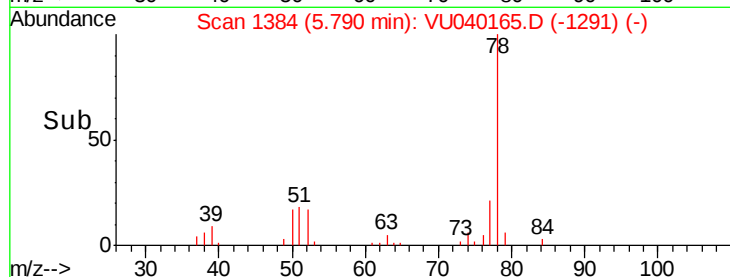
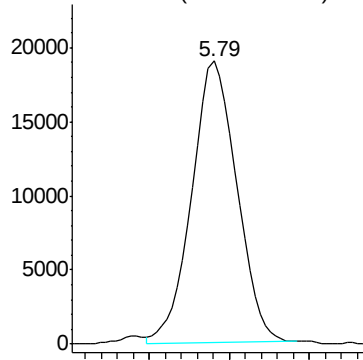
#33
Benzene
Concen: 0.908 ug/L
RT: 5.79 min Scan# 1384
Delta R.T. -0.00 min
Lab File: VU040165.D
Acq: 16 Sep 2020 22:41

Instrument :
MSVOA_U
ClientSampleId :
BG0P1

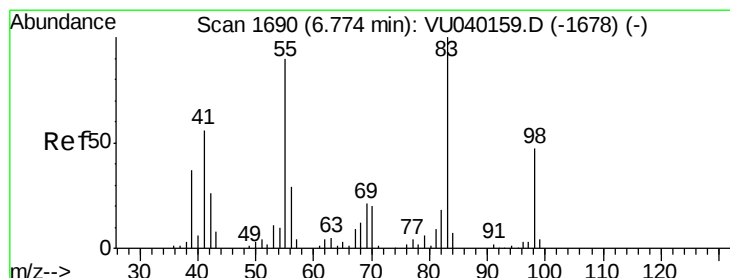
Tgt Ion: 78 Resp: 36526



Abundance Ion 78.10 (77.80 to 78.80): VU0

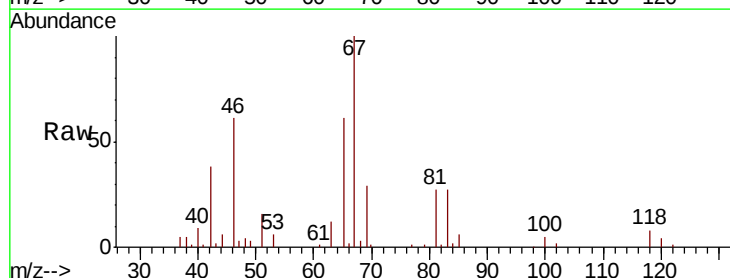


Time-->



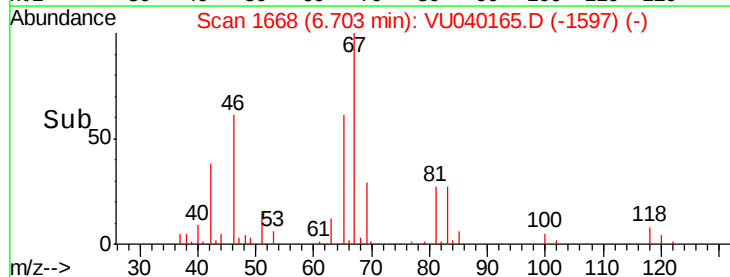
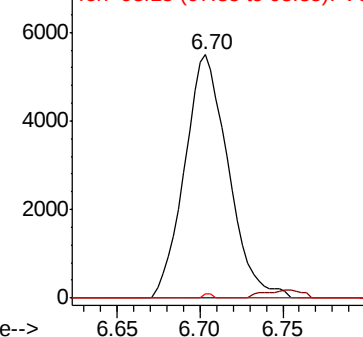
#35
Methylcyclohexane
Concen: 0.609 ug/L
RT: 6.70 min Scan# 1668
Delta R.T. -0.07 min
Lab File: VU040165.D
Acq: 16 Sep 2020 22:41

Tgt Ion: 83 Resp: 10060
Ion Ratio Lower Upper
83 100
55 3.0 70.5 105.7#
98 0.4 37.8 56.6#

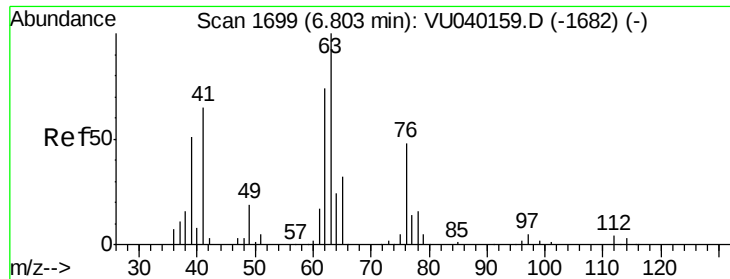


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0
Ion 98.15 (97.85 to 98.85): VU0



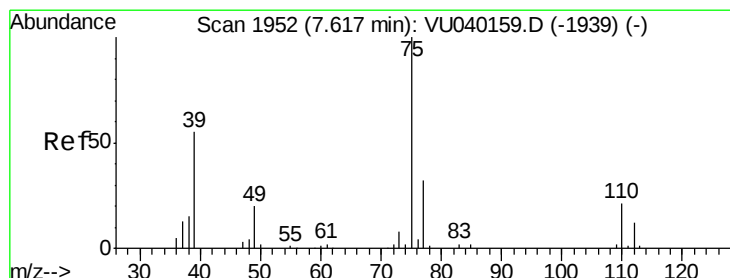
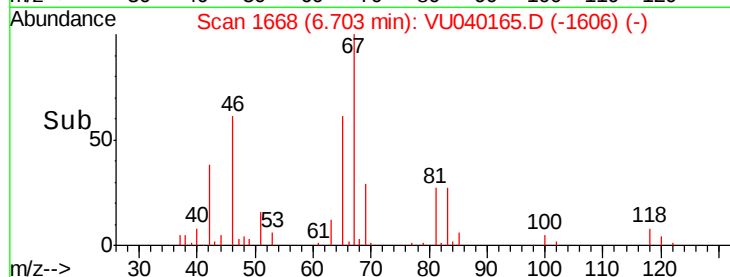
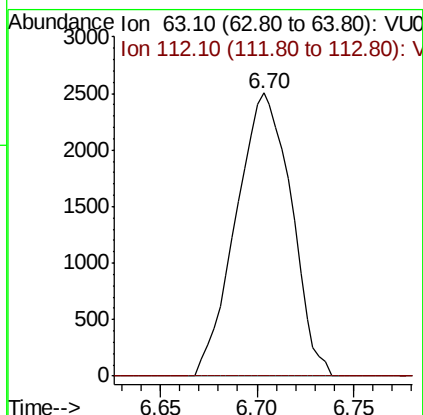
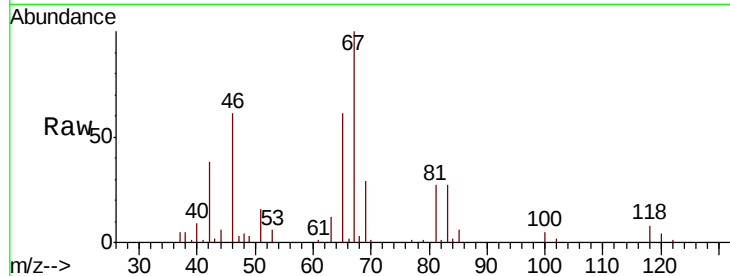
Time-->



#37
 1,2-Dichloropropane
 Concen: 0.456 ug/L
 RT: 6.70 min Scan# 1668
 Delta R.T. -0.10 min
 Lab File: VU040165.D
 Acq: 16 Sep 2020 22:41

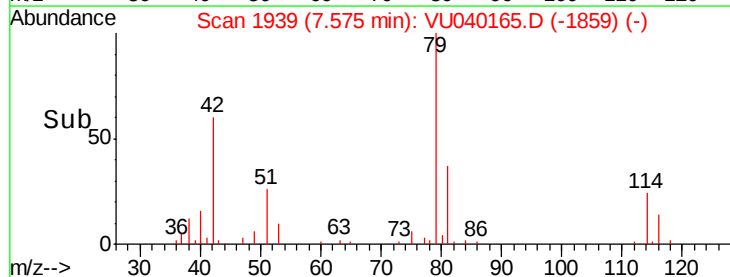
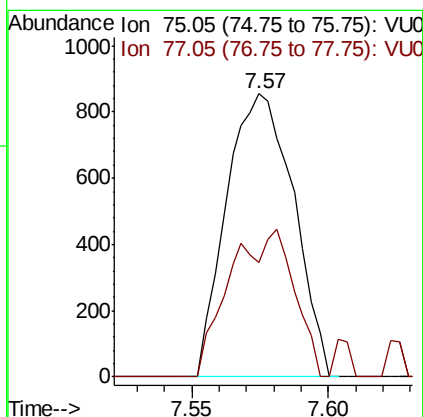
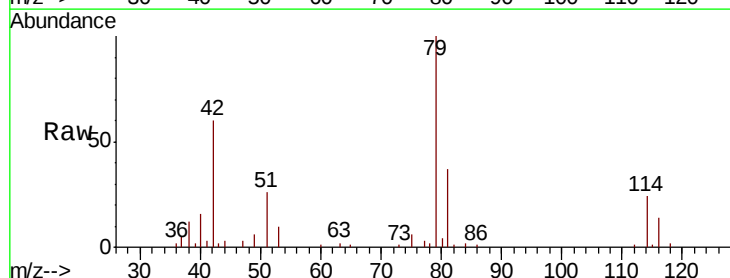
Instrument :
 MSVOA_U
 ClientSampleId :
 BG0P1

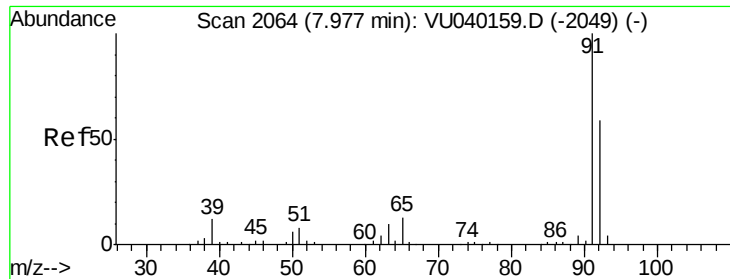
Tot Ion: 63 Resp: 4961
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.2 4.8#



#39
 cis-1,3-Dichloropropene
 Concen: 0.091 ug/L
 RT: 7.57 min Scan# 1939
 Delta R.T. -0.04 min
 Lab File: VU040165.D
 Acq: 16 Sep 2020 22:41

Tgt Ion: 75 Resp: 1461
 Ion Ratio Lower Upper
 75 100
 77 40.5 21.1 39.3#





#42

Toluene

Concen: 0.041 ug/L

RT: 7.98 min Scan# 2064

Delta R.T. -0.00 min

Lab File: VU040165.D

Acq: 16 Sep 2020 22:41

Instrument :

MSVOA_U

ClientSampleId :

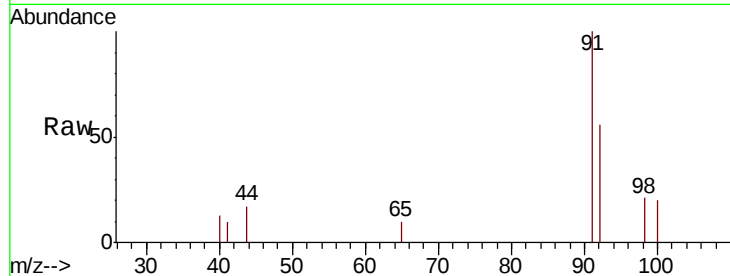
BG0P1

Tot Ion: 91 Resp: 1693

Ion Ratio Lower Upper

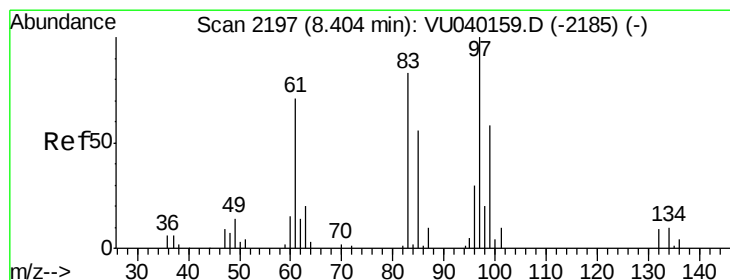
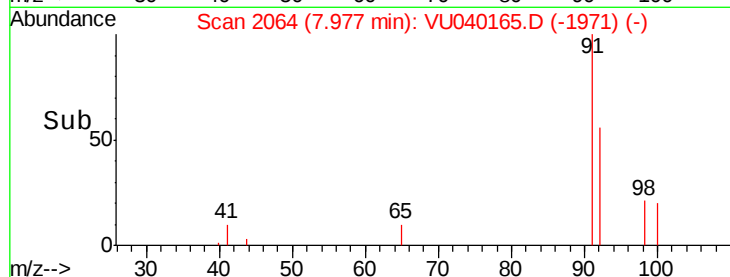
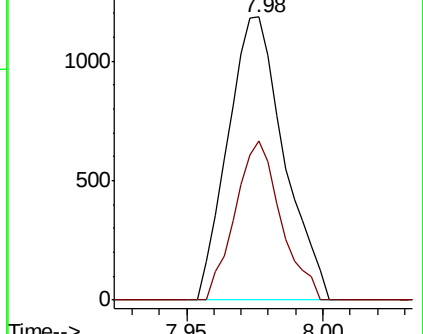
91 100

92 56.1 40.7 75.5



Abundance Ion 91.15 (90.85 to 91.85): VU0

Ion 92.15 (91.85 to 92.85): VU0



#45

1,1,2-Trichloroethane

Concen: 0.117 ug/L

RT: 8.38 min Scan# 2189

Delta R.T. -0.03 min

Lab File: VU040165.D

Acq: 16 Sep 2020 22:41

Tgt Ion: 97 Resp: 928

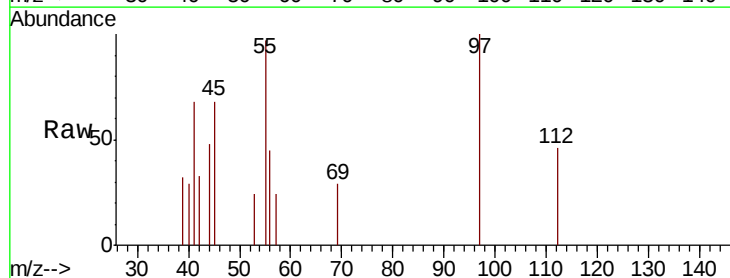
Ion Ratio Lower Upper

97 100

99 0.0 43.0 79.8#

83 0.0 61.7 114.7#

85 0.0 39.3 73.1#

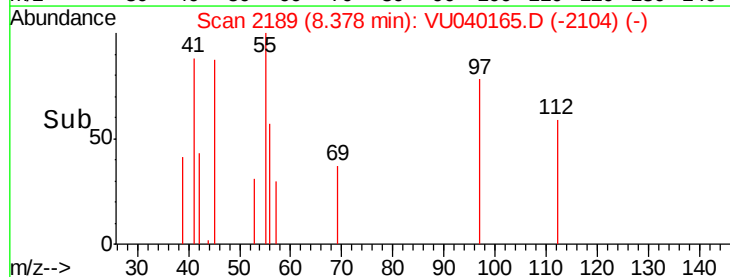
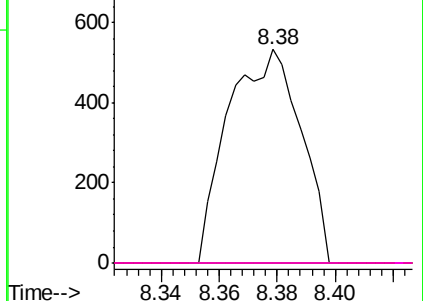


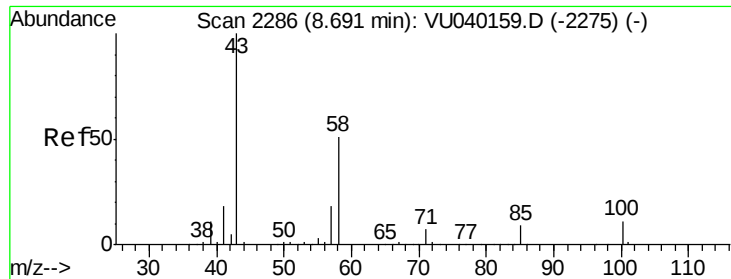
Abundance Ion 96.95 (96.65 to 97.65): VU0

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

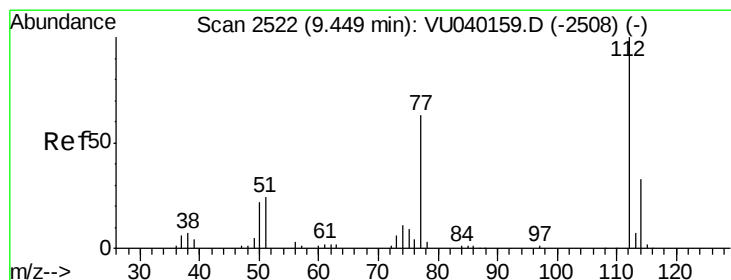
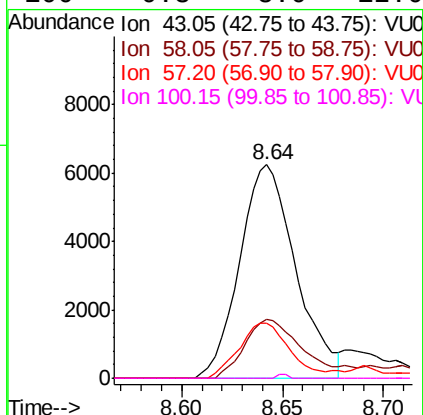
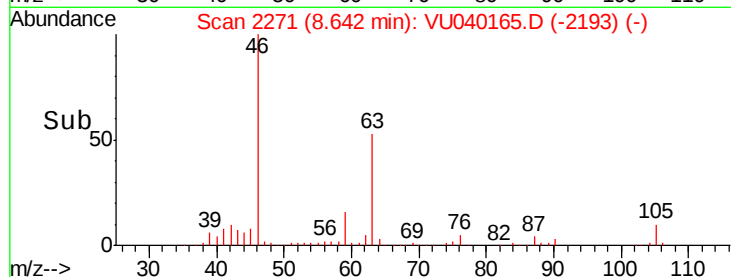
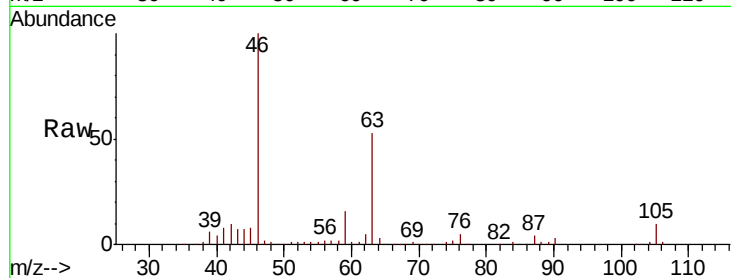




#48
2-Hexanone
Concen: 1.864 ug/L
RT: 8.64 min Scan# 2271
Delta R.T. -0.05 min
Lab File: VU040165.D
Acq: 16 Sep 2020 22:41

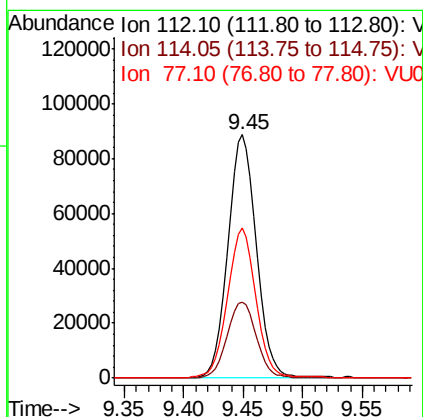
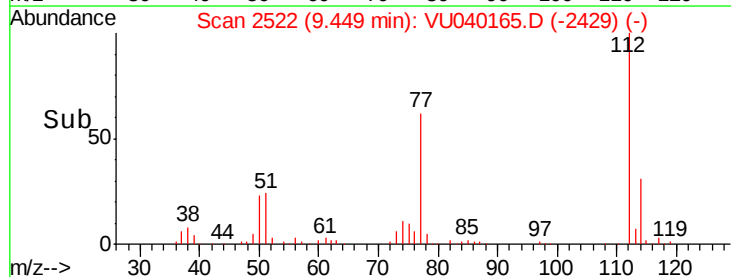
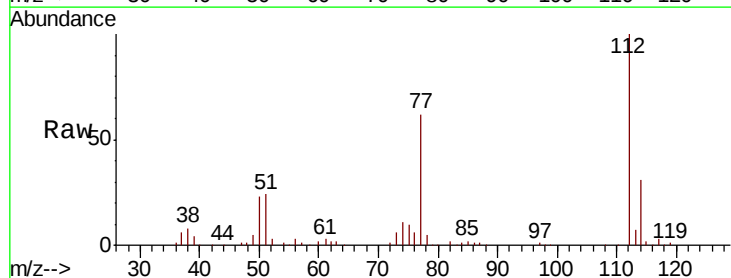
Instrument :
MSVOA_U
ClientSampleId :
BG0P1

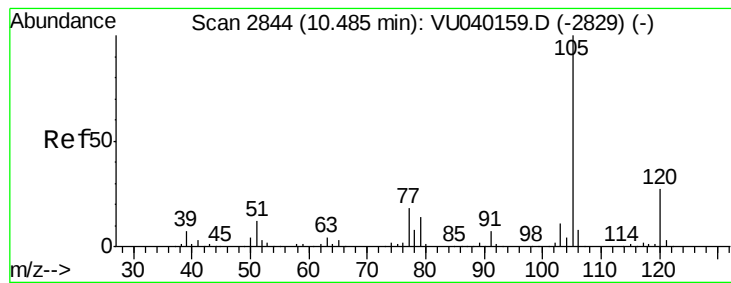
Tot Ion: 43 Resp: 12148
Ion Ratio Lower Upper
43 100
58 29.4 39.6 59.4#
57 24.3 14.3 21.5#
100 0.3 8.0 12.0#



#51
Chlorobenzene
Concen: 5.726 ug/L
RT: 9.45 min Scan# 2522
Delta R.T. -0.00 min
Lab File: VU040165.D
Acq: 16 Sep 2020 22:41

Tgt Ion: 112 Resp: 147203
Ion Ratio Lower Upper
112 100
114 31.4 22.7 42.3
77 61.8 53.2 79.8





#56

Isopropylbenzene

Concen: 0.235 ug/L

RT: 10.48 min Scan# 2844

Delta R.T. -0.00 min

Lab File: VU040165.D

Acq: 16 Sep 2020 22:41

Instrument :

MSVOA_U

ClientSampleId :

BG0P1

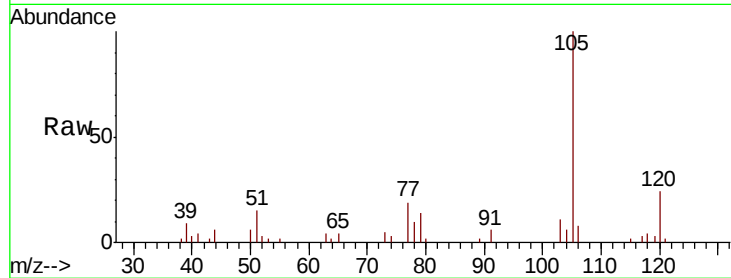
Tot Ion:105 Resp: 10232

Ion Ratio Lower Upper

105 100

120 26.1 20.1 30.1

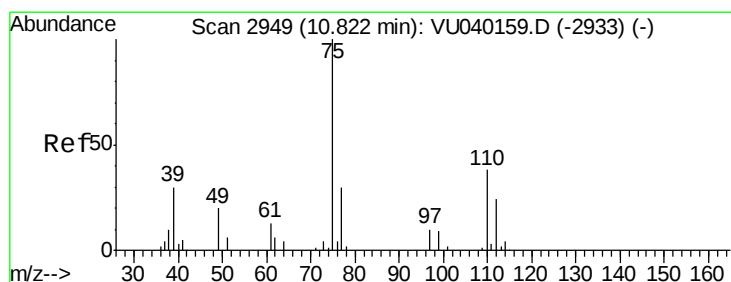
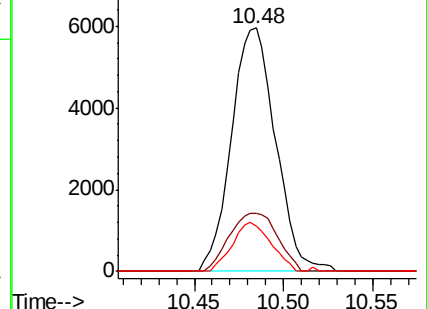
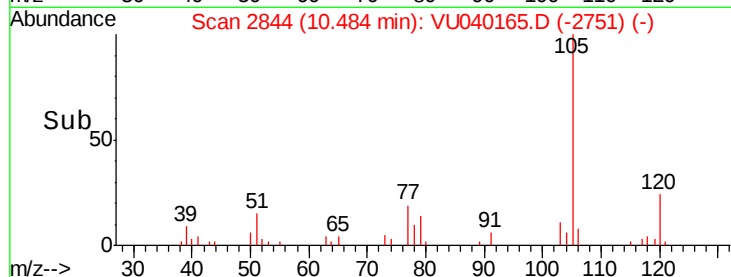
77 17.5 14.4 21.6



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): VU



#59

1,2,3-Trichloropropane

Concen: 1.134 ug/L

RT: 11.81 min Scan# 3257

Delta R.T. 0.99 min

Lab File: VU040165.D

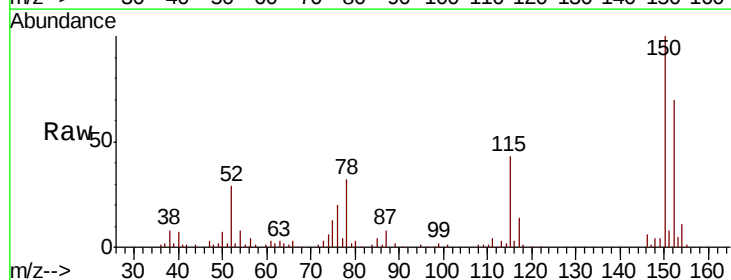
Acq: 16 Sep 2020 22:41

Tgt Ion: 75 Resp: 9143

Ion Ratio Lower Upper

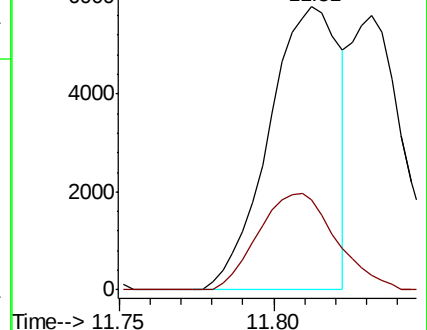
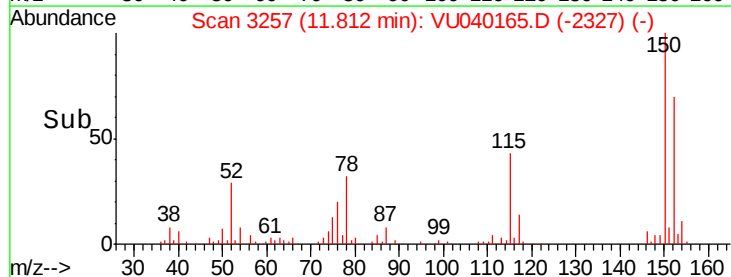
75 100

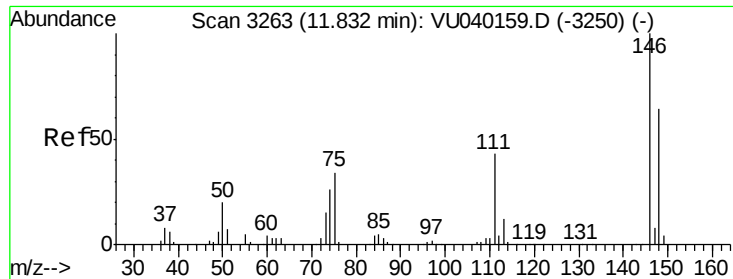
77 37.4 24.9 37.3#



Abundance Ion 75.00 (74.70 to 75.70): VU

Ion 77.00 (76.70 to 77.70): VU

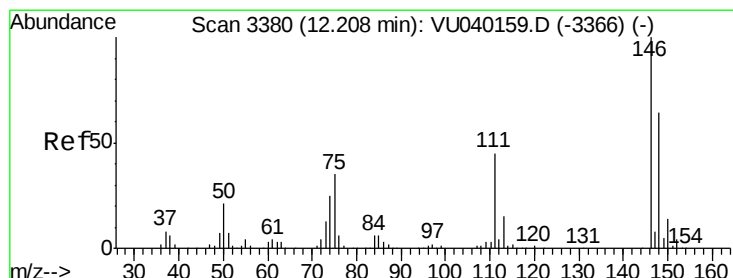
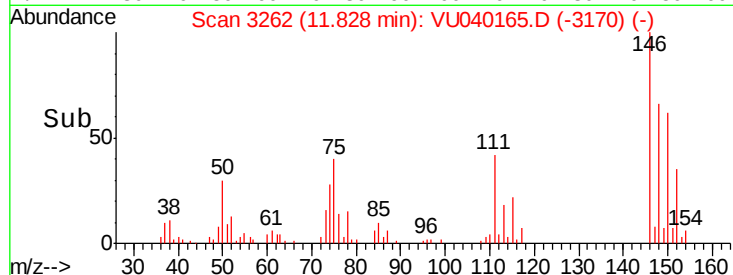
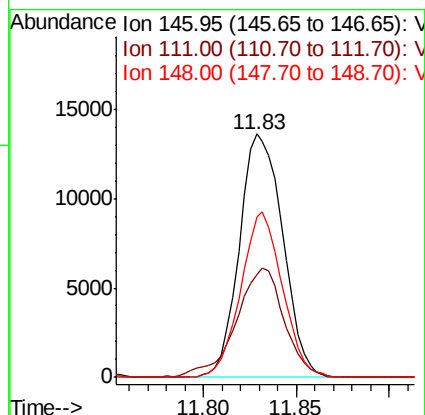
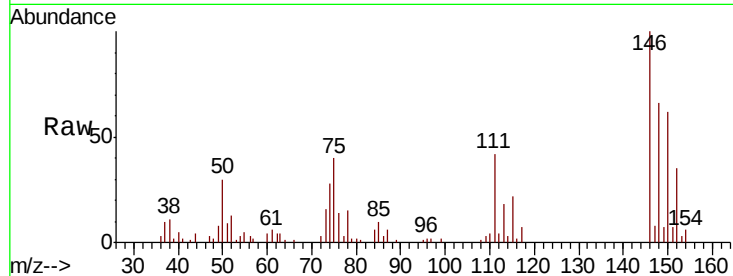




#63
 1,4-Dichlorobenzene
 Concen: 1.117 ug/L
 RT: 11.83 min Scan# 3262
 Delta R.T. -0.00 min
 Lab File: VU040165.D
 Acq: 16 Sep 2020 22:41

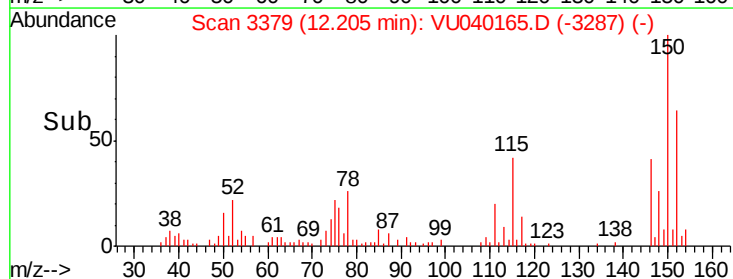
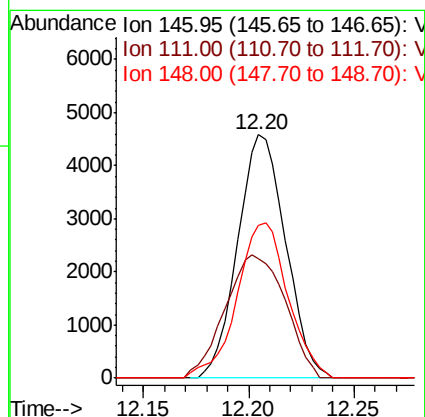
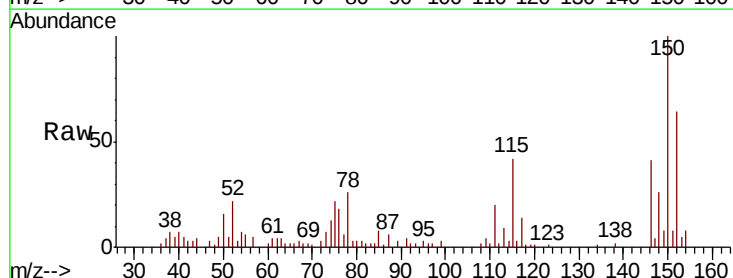
Instrument :
 MSVOA_U
 ClientSampled :
 BG0P1

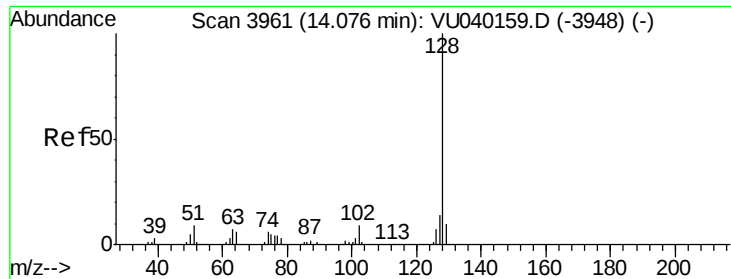
Tot Ion:146 Resp: 22092
 Ion Ratio Lower Upper
 146 100
 111 42.4 30.5 56.7
 148 65.9 45.4 84.4



#65
 1,2-Dichlorobenzene
 Concen: 0.383 ug/L
 RT: 12.20 min Scan# 3379
 Delta R.T. -0.00 min
 Lab File: VU040165.D
 Acq: 16 Sep 2020 22:41

Tgt Ion:146 Resp: 7243
 Ion Ratio Lower Upper
 146 100
 111 48.8 36.5 54.7
 148 62.9 48.6 72.8





#69

Naphthalene

Concen: 0.117 ug/L

RT: 14.08 min Scan# 3961

Delta R.T. -0.00 min

Lab File: VU040165.D

Acq: 16 Sep 2020 22:41

Instrument :

MSVOA_U

ClientSampleId :

BG0P1

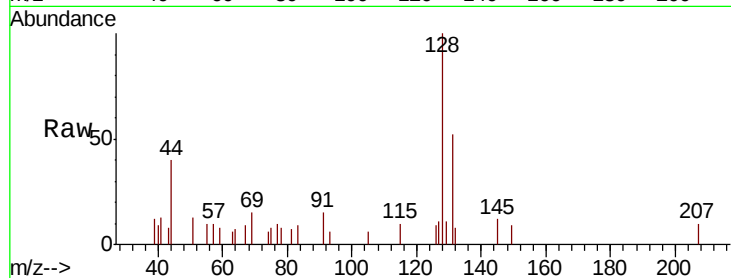
Tot Ion:128 Resp: 2895

Ion Ratio Lower Upper

128 100

129 0.0 8.7 13.1#

127 11.7 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

