

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU111020\
 Data File : VU041179.D
 Acq On : 10 Nov 2020 15:32
 Operator : SY/MD
 Sample : L4646-20
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 GB0W4

Quant Time: Nov 11 04:15:56 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102620WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Nov 11 00:43:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	59623	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	58541	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	27217	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	14125	2.82	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	56.40%
7) Chloroethane-d5	1.92	69	13318	3.46	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	69.20%
11) 1,1-Dichloroethene-d2	2.58	63	22922	2.33	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	46.60%#
20) 2-Butanone-d5	4.65	46	78285	47.46	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	94.92%
24) Chloroform-d	5.08	84	39439	4.46	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	89.20%
26) 1,2-Dichloroethane-d4	5.72	65	25701	4.68	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	93.60%
32) Benzene-d6	5.74	84	65749	4.20	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	84.00%
36) 1,2-Dichloropropane-d6	6.70	67	24037	4.71	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	94.20%
41) Toluene-d8	7.91	98	53674	3.78	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	75.60%
43) trans-1,3-Dichloropropene-	8.19	79	8963	4.06	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	81.20%
46) 2-Hexanone-d5	8.64	63	56612	47.59	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	95.18%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	21762	4.60	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	92.00%
64) 1,2-Dichlorobenzene-d4	12.19	152	24084	5.04	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	100.80%

Target Compounds

					Ovalue
3) Chloromethane	1.68	50	436	0.077 ug/L #	43
5) Vinyl chloride	1.61	62	2058	0.368 ug/L #	77
8) Chloroethane	1.89	64	127	0.036 ug/L #	43
12) 1,1-Dichloroethene	2.59	96	287	0.068 ug/L #	1
13) Acetone	2.66	43	1663	1.475 ug/L	98
17) Methyl tert-butyl Ether	3.38	73	1293	0.119 ug/L #	59
18) trans-1,2-Dichloroethene	3.37	96	2814	0.657 ug/L	88
22) cis-1,2-Dichloroethene	4.69	96	213314	48.317 ug/L	100
25) Chloroform	5.11	83	2663	0.310 ug/L	87
27) 1,2-Dichloroethane	5.81	62	8682	1.358 ug/L #	91
30) Cyclohexane	5.40	56	692	0.098 ug/L #	73
31) Carbon tetrachloride	5.53	117	326	0.051 ug/L #	62
33) Benzene	5.79	78	25853	1.478 ug/L	100
34) Trichloroethene	6.56	95	195511	43.920 ug/L	99
35) Methylcyclohexane	6.70	83	5928	0.893 ug/L #	13
37) 1,2-Dichloropropane	6.70	63	3020	0.638 ug/L #	86
39) cis-1,3-Dichloropropene	7.57	75	632	0.097 ug/L	86

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102620WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Wed Nov 11 00:43:53 2020
Response via : Initial Calibration

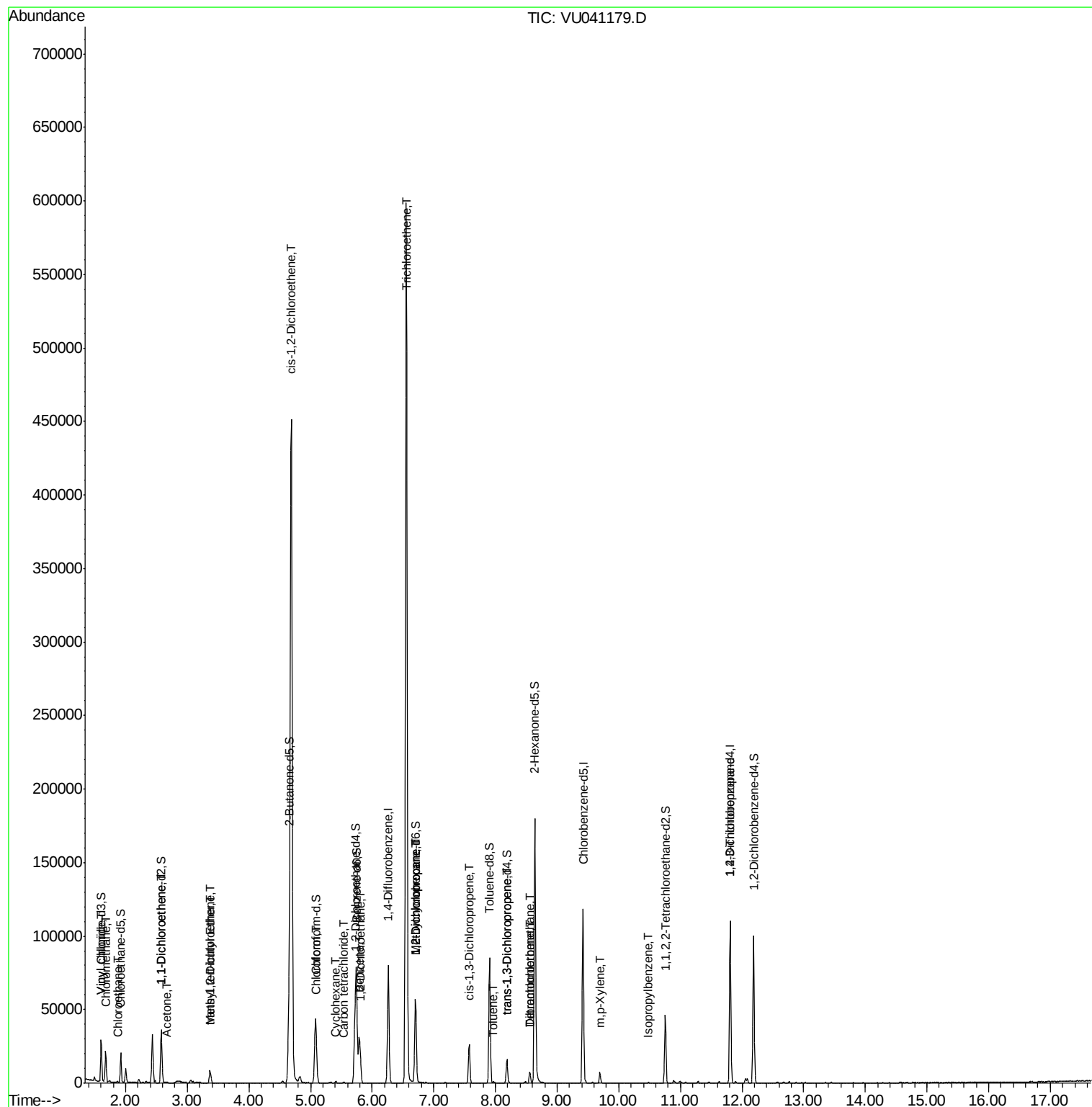
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.97	91	862	0.049	ug/L #	76
44) trans-1,3-Dichloropropene	8.19	75	517	0.085	ug/L	85
47) Tetrachloroethene	8.56	164	1495	0.457	ug/L	92
49) Dibromochloromethane	8.56	129	1654	0.404	ug/L #	11
53) m,p-Xylene	9.69	106	1881	0.276	ug/L	72
56) Isopropylbenzene	10.48	105	528	0.031	ug/L #	54
59) 1,2,3-Trichloropropane	11.81	75	3733	1.058	ug/L	98

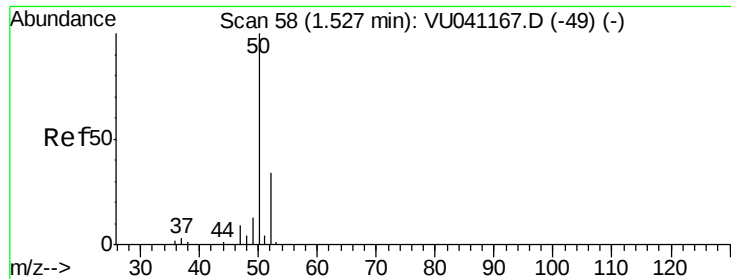
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.077 ug/L

RT: 1.68 min Scan# 105

Delta R.T. 0.15 min

Lab File: VU041179.D

Acq: 10 Nov 2020 15:32

Instrument :

MSVOA_U

ClientSampleId :

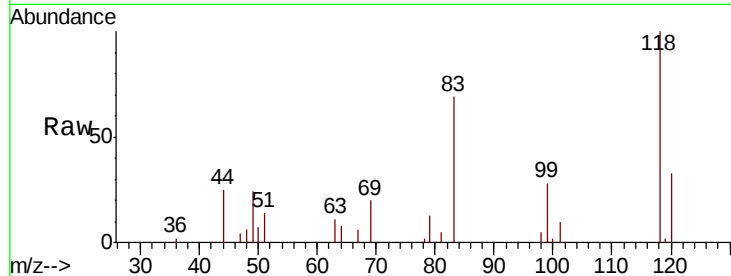
GB0W4

Tot Ion: 50 Resp: 436

Ion Ratio Lower Upper

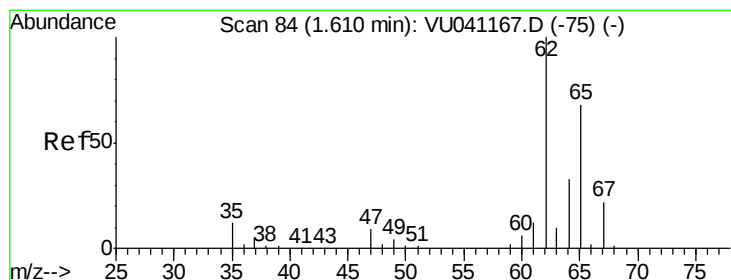
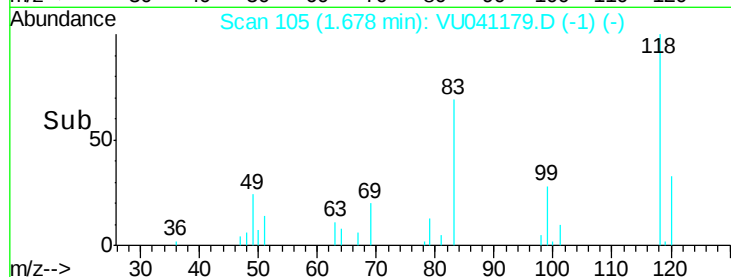
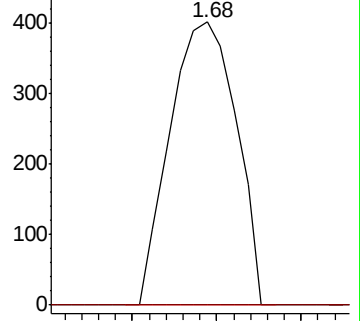
50 100

52 0.0 22.4 41.6#



Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0



#5

Vinyl chloride

Concen: 0.368 ug/L

RT: 1.61 min Scan# 84

Delta R.T. -0.00 min

Lab File: VU041179.D

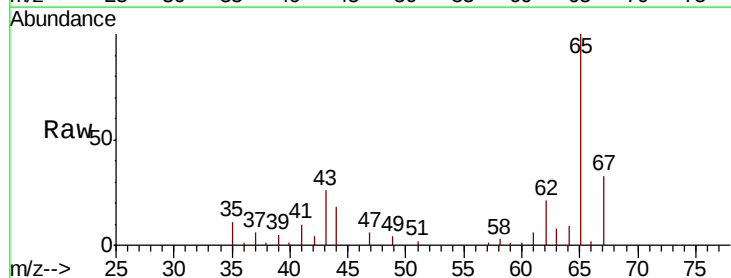
Acq: 10 Nov 2020 15:32

Tgt Ion: 62 Resp: 2058

Ion Ratio Lower Upper

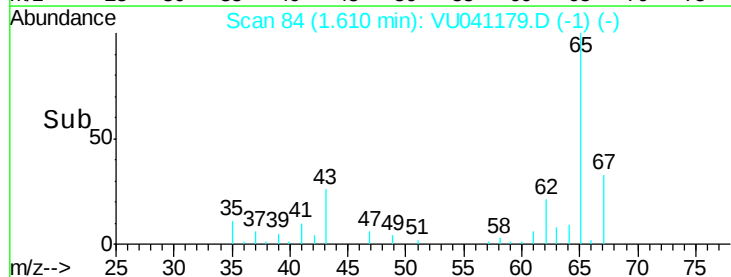
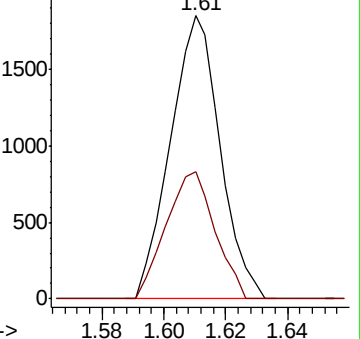
62 100

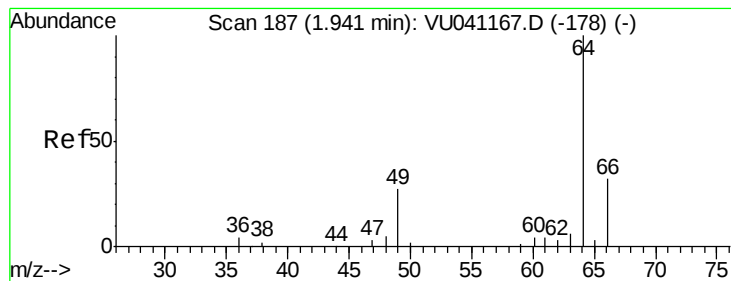
64 45.2 22.7 42.3#



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0





#8

Chloroethane

Concen: 0.036 ug/L

RT: 1.89 min Scan# 170

Delta R.T. -0.05 min

Lab File: VU041179.D

Acq: 10 Nov 2020 15:32

Instrument :

MSVOA_U

ClientSampled :

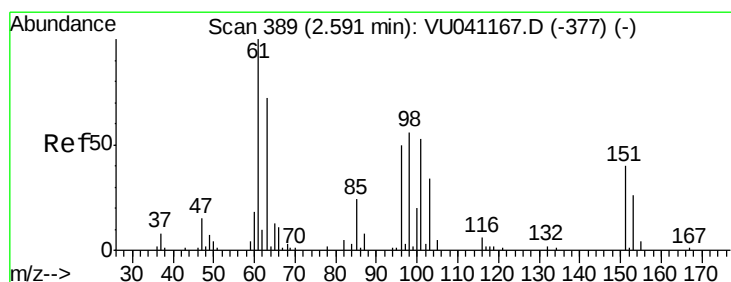
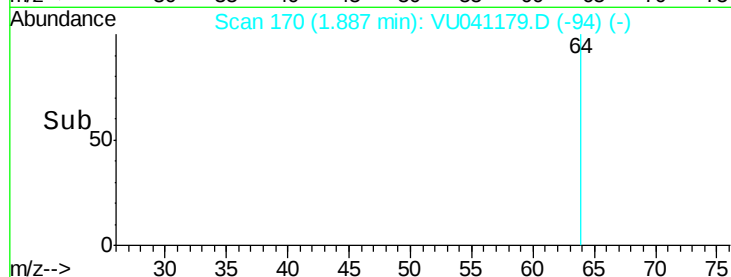
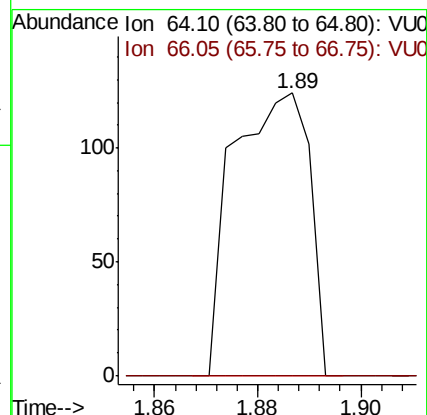
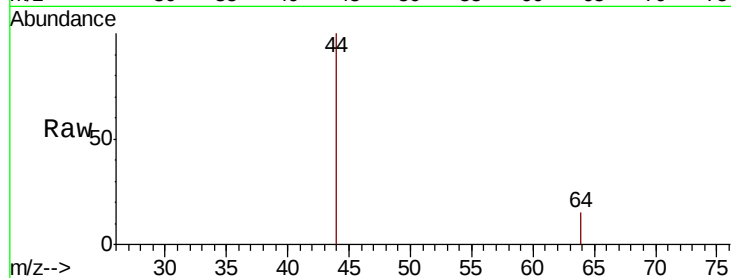
GB0W4

Tot Ion: 64 Resp: 127

Ion Ratio Lower Upper

64 100

66 0.0 22.3 41.5#



#12

1,1-Dichloroethene

Concen: 0.068 ug/L

RT: 2.59 min Scan# 388

Delta R.T. -0.00 min

Lab File: VU041179.D

Acq: 10 Nov 2020 15:32

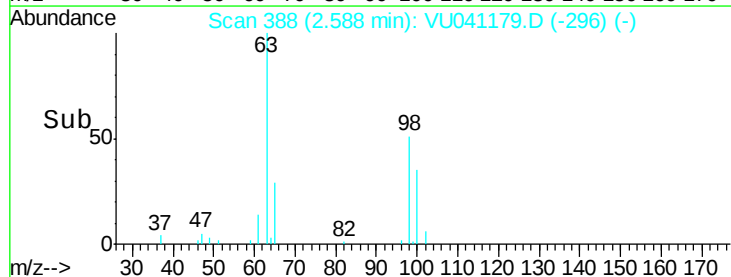
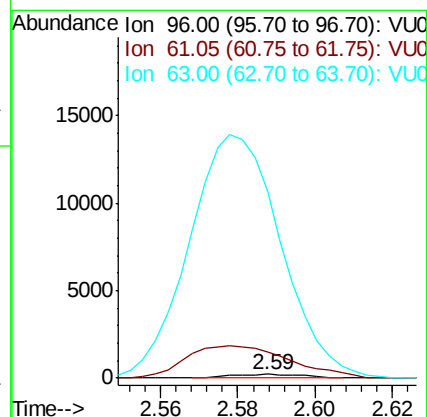
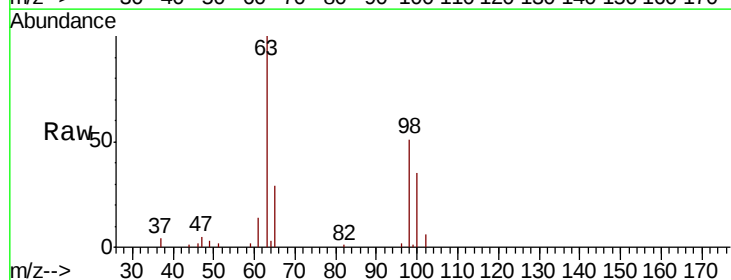
Tgt Ion: 96 Resp: 287

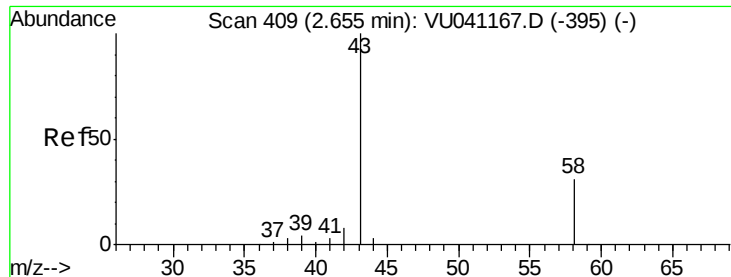
Ion Ratio Lower Upper

96 100

61 673.4 134.3 249.5#

63 4778.8 95.0 176.4#





#13

Acetone

Concen: 1.475 ug/L

RT: 2.66 min Scan# 412

Delta R.T. 0.01 min

Lab File: VU041179.D

Acq: 10 Nov 2020 15:32

Instrument :

MSVOA_U

ClientSampleId :

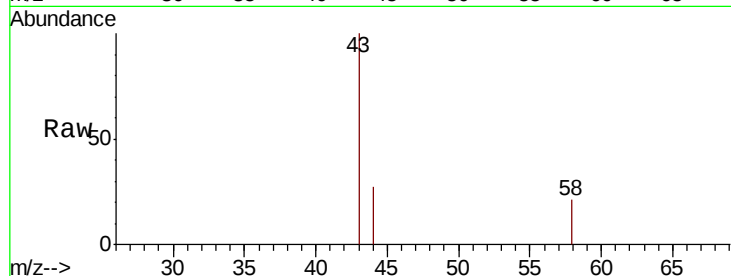
GB0W4

Tot Ion: 43 Resp: 1663

Ion Ratio Lower Upper

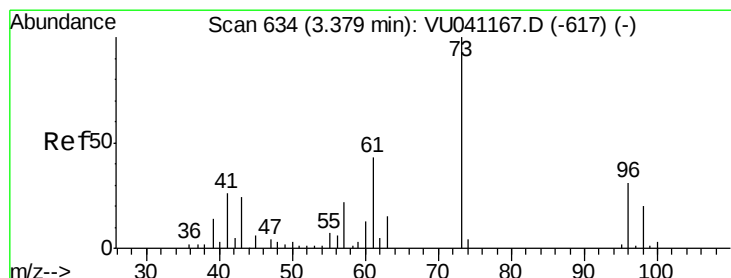
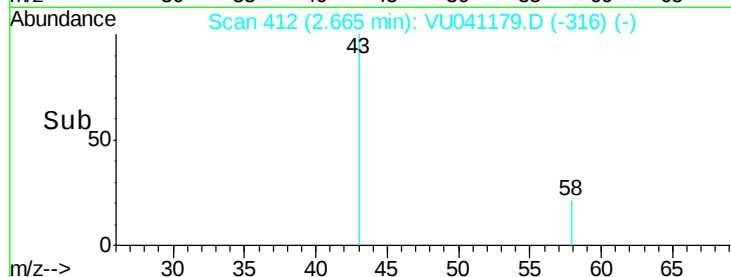
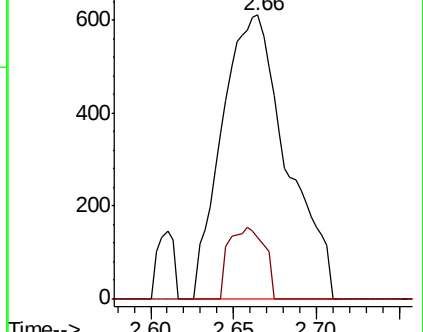
43 100

58 13.5 0.0 25.4



Abundance Ion 43.05 (42.75 to 43.75): VU041179.D (-316) (-)

Ion 58.05 (57.75 to 58.75): VU041179.D (-316) (-)



#17

Methyl tert-butyl Ether

Concen: 0.119 ug/L

RT: 3.38 min Scan# 634

Delta R.T. -0.00 min

Lab File: VU041179.D

Acq: 10 Nov 2020 15:32

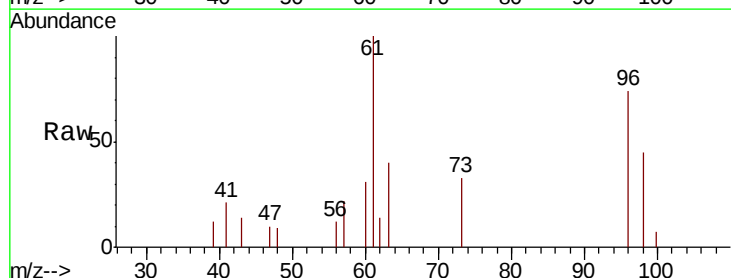
Tgt Ion: 73 Resp: 1293

Ion Ratio Lower Upper

73 100

43 27.1 18.5 27.7

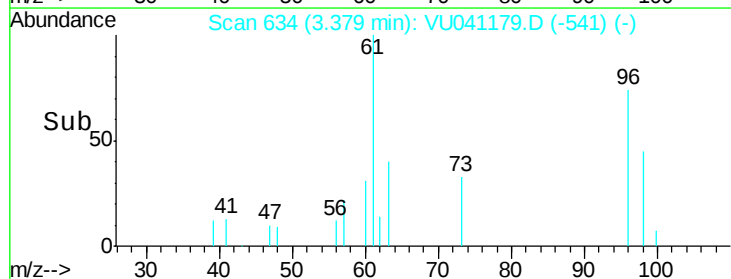
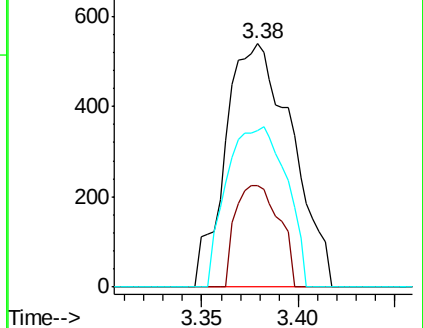
57 58.9 18.4 27.6#

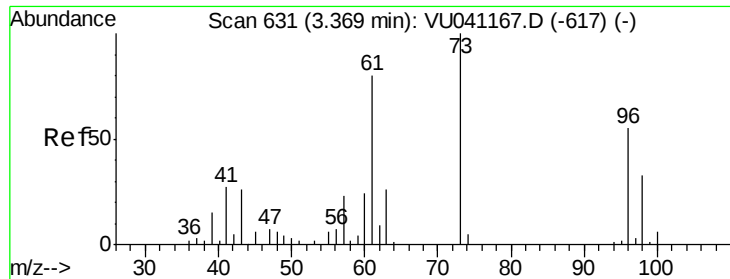


Abundance Ion 73.10 (72.80 to 73.80): VU041179.D (-541) (-)

Ion 43.05 (42.75 to 43.75): VU041179.D (-541) (-)

Ion 57.10 (56.80 to 57.80): VU041179.D (-541) (-)

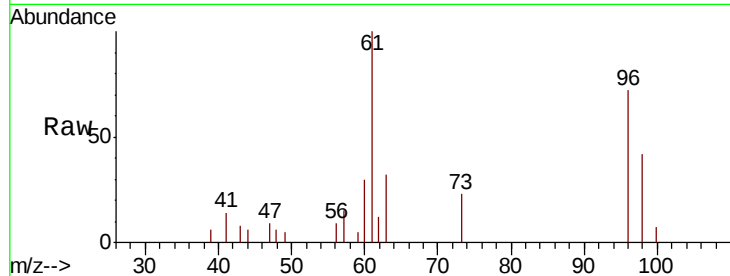




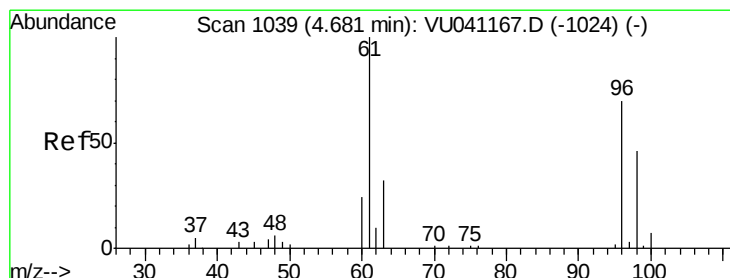
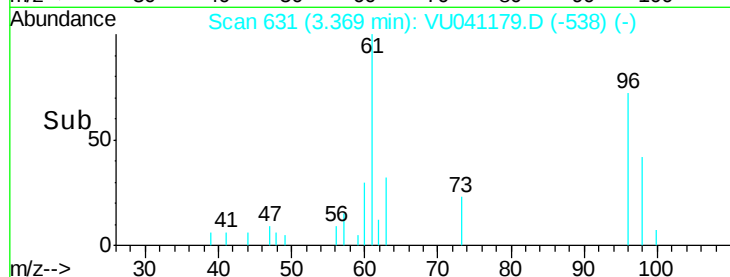
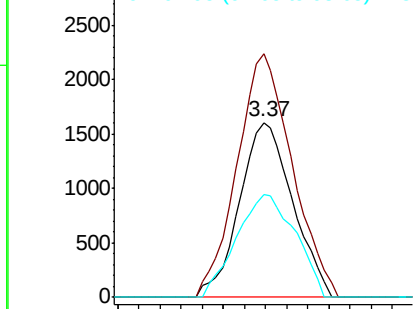
#18
trans-1,2-Dichloroethene
Concen: 0.657 ug/L
RT: 3.37 min Scan# 631
Delta R.T. -0.00 min
Lab File: VU041179.D
Acq: 10 Nov 2020 15:32

Instrument :
MSVOA_U
ClientSampleId :
GB0W4

Tot Ion: 96 Resp: 2814
Ion Ratio Lower Upper
96 100
61 139.4 110.9 205.9
98 58.9 45.4 84.2

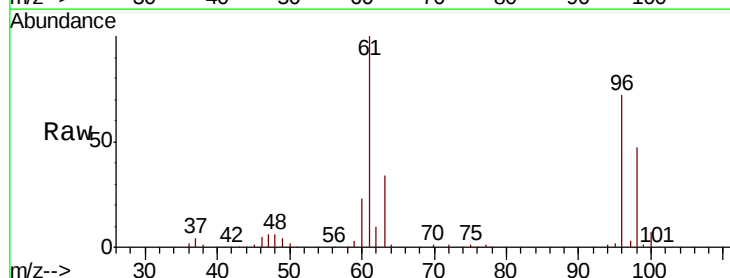


Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 97.95 (97.65 to 98.65): VU0

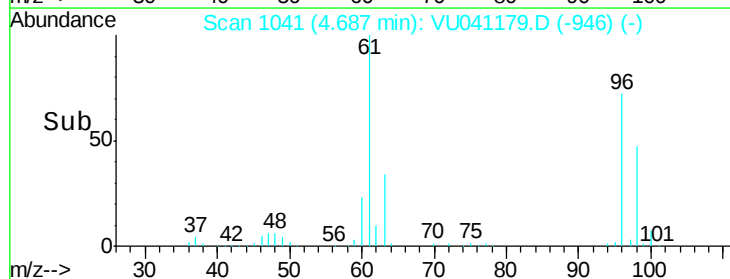
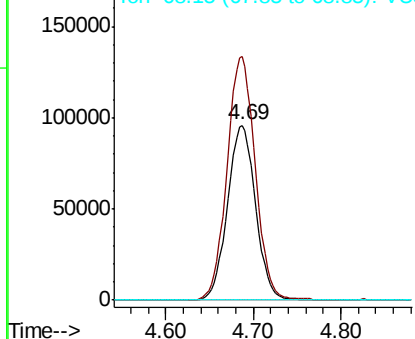


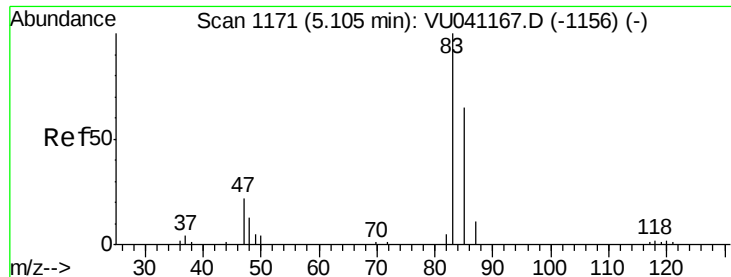
#22
cis-1,2-Dichloroethene
Concen: 48.317 ug/L
RT: 4.69 min Scan# 1041
Delta R.T. 0.01 min
Lab File: VU041179.D
Acq: 10 Nov 2020 15:32

Tgt Ion: 96 Resp: 213314
Ion Ratio Lower Upper
96 100
61 139.2 97.2 180.4
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 68.15 (67.85 to 68.85): VU0

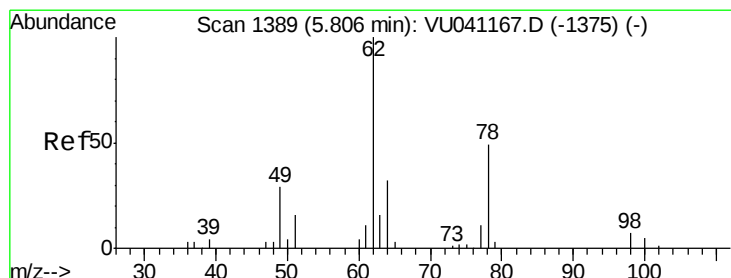
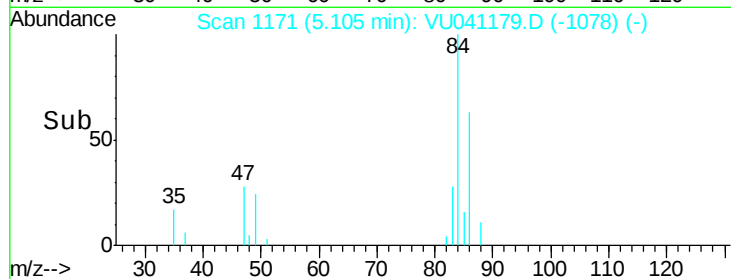
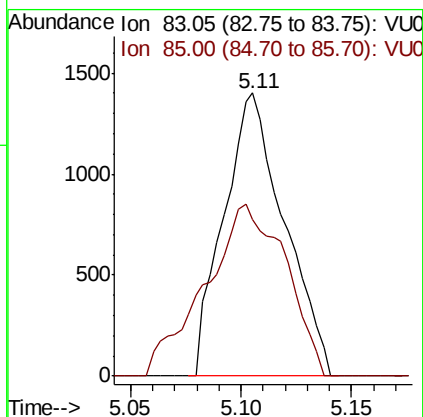
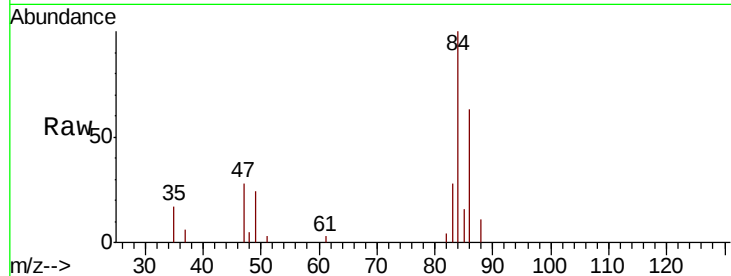




#25
Chloroform
Concen: 0.310 ug/L
RT: 5.11 min Scan# 1171
Delta R.T. -0.00 min
Lab File: VU041179.D
Acq: 10 Nov 2020 15:32

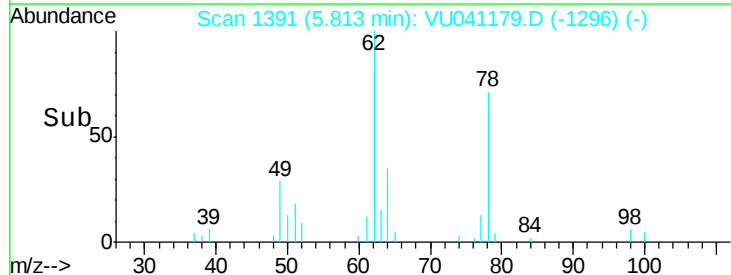
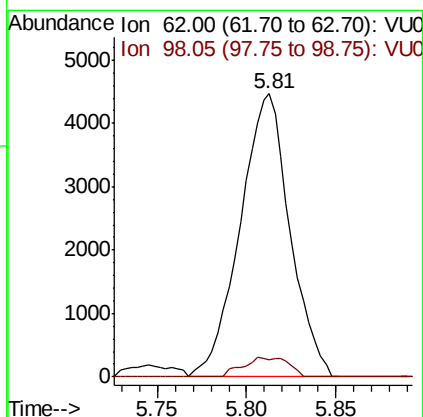
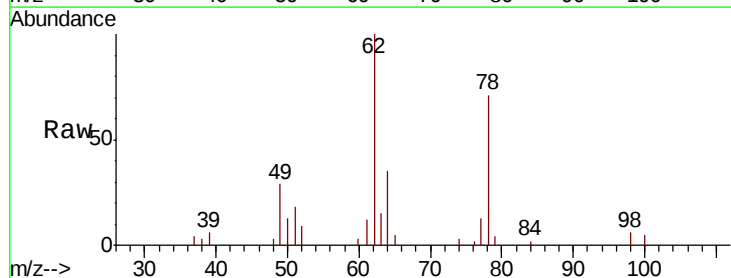
Instrument :
MSVOA_U
ClientSampleId :
GB0W4

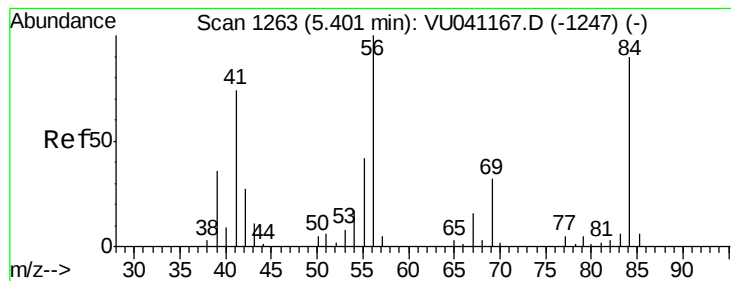
Tot Ion: 83 Resp: 2663
Ion Ratio Lower Upper
83 100
85 55.2 46.1 85.7



#27
1,2-Dichloroethane
Concen: 1.358 ug/L
RT: 5.81 min Scan# 1391
Delta R.T. 0.01 min
Lab File: VU041179.D
Acq: 10 Nov 2020 15:32

Tgt Ion: 62 Resp: 8682
Ion Ratio Lower Upper
62 100
98 6.2 7.6 11.4#





#30

Cyclohexane

Concen: 0.098 ug/L

RT: 5.40 min Scan# 1262

Delta R.T. -0.00 min

Lab File: VU041179.D

Acq: 10 Nov 2020 15:32

Instrument :

MSVOA_U

ClientSampleId :

GB0W4

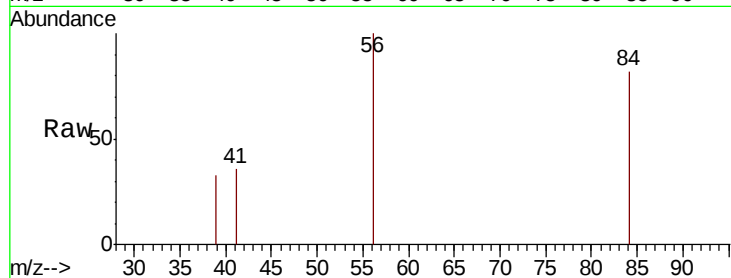
Tot Ion: 56 Resp: 692

Ion Ratio Lower Upper

56 100

69 0.0 22.8 34.2#

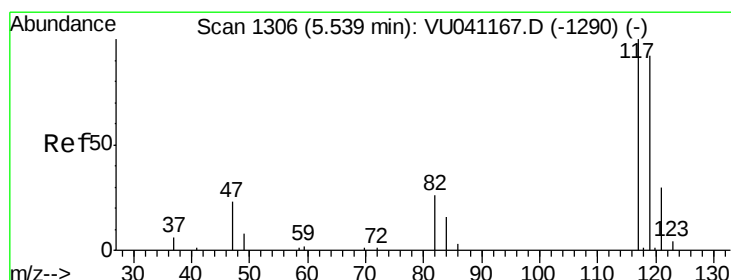
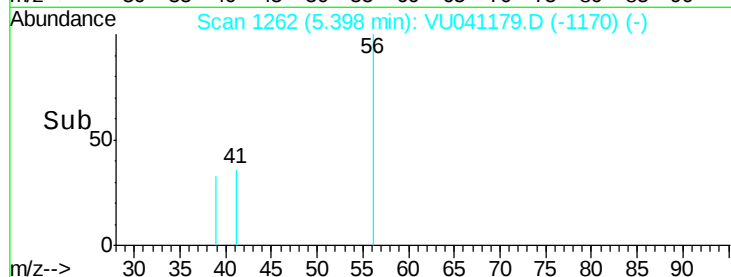
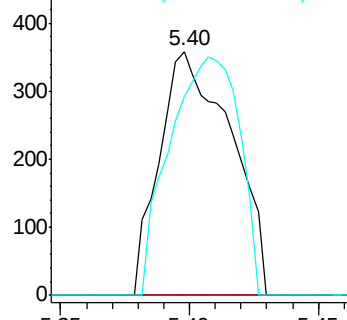
84 95.4 63.6 95.4



Abundance Ion 56.10 (55.80 to 56.80): VU041179.D (-1170) (-)

Ion 69.15 (68.85 to 69.85): VU041179.D (-1170) (-)

Ion 84.15 (83.85 to 84.85): VU041179.D (-1170) (-)



#31

Carbon tetrachloride

Concen: 0.051 ug/L

RT: 5.53 min Scan# 1304

Delta R.T. -0.01 min

Lab File: VU041179.D

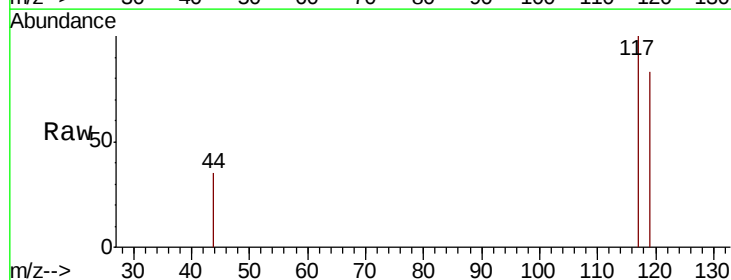
Acq: 10 Nov 2020 15:32

Tgt Ion: 117 Resp: 326

Ion Ratio Lower Upper

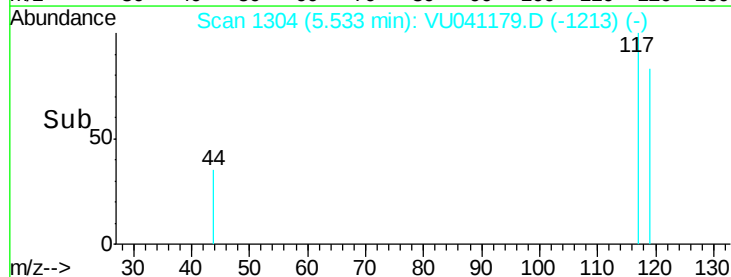
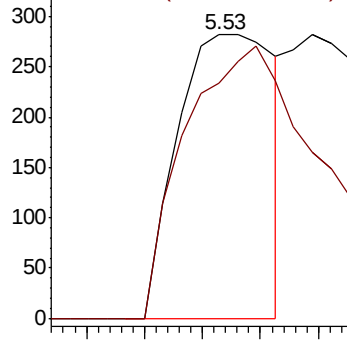
117 100

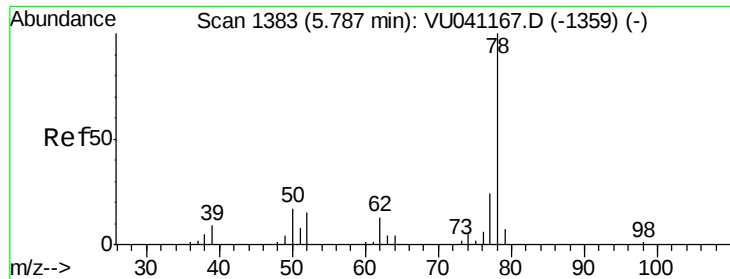
119 132.5 76.1 114.1#



Abundance Ion 116.90 (116.60 to 117.60): VU041179.D (-1213) (-)

Ion 118.90 (118.60 to 119.60): VU041179.D (-1213) (-)

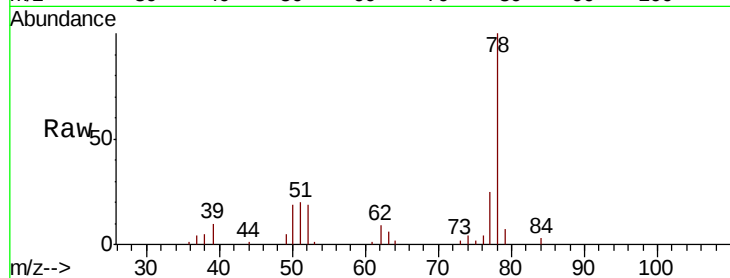




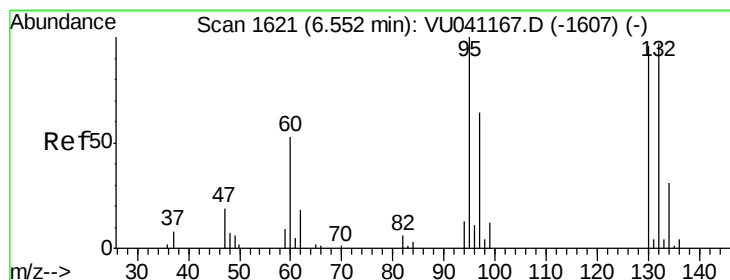
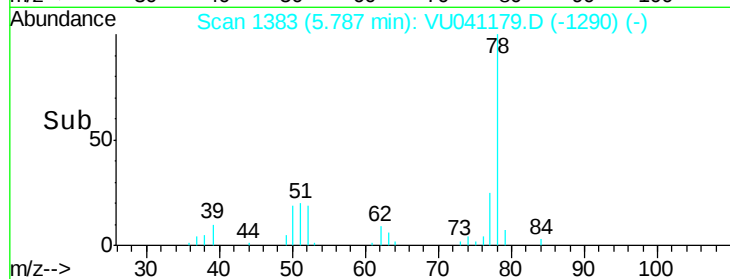
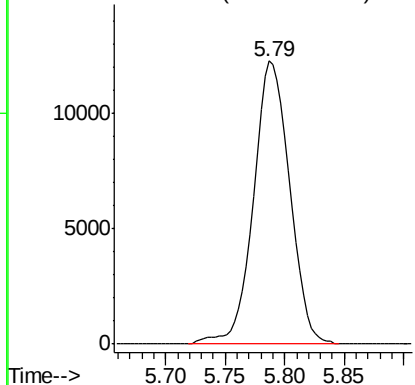
#33
Benzene
Concen: 1.478 ug/L
RT: 5.79 min Scan# 1383
Delta R.T. 0.00 min
Lab File: VU041179.D
Acq: 10 Nov 2020 15:32

Instrument :
MSVOA_U
ClientSampled :
GB0W4

Tgt Ion: 78 Resp: 25853



Abundance Ion 78.10 (77.80 to 78.80): VU0

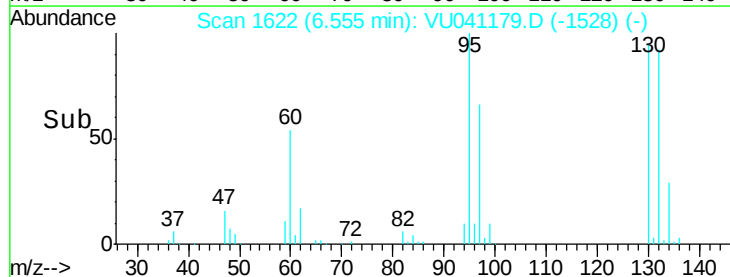
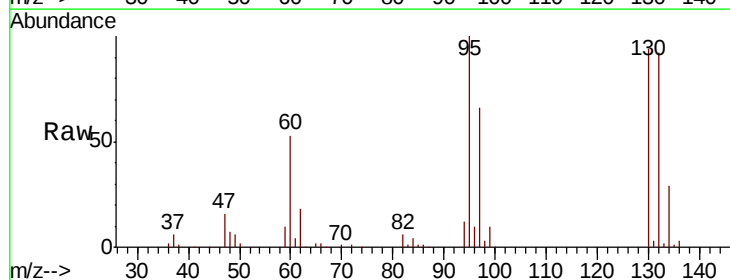
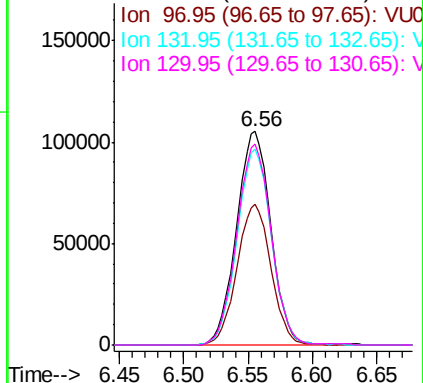


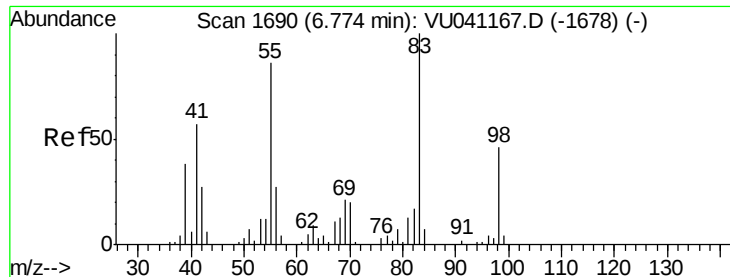
#34
Trichloroethene
Concen: 43.920 ug/L
RT: 6.56 min Scan# 1622
Delta R.T. 0.00 min
Lab File: VU041179.D
Acq: 10 Nov 2020 15:32

Tgt Ion: 95 Resp: 195511

Ion	Ratio	Lower	Upper
95	100		
97	65.7	45.6	84.6
132	91.6	64.8	120.4
130	94.1	64.8	120.4

Abundance Ion 95.00 (94.70 to 95.70): VU0

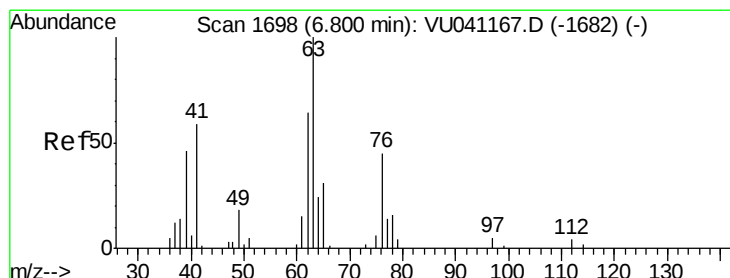
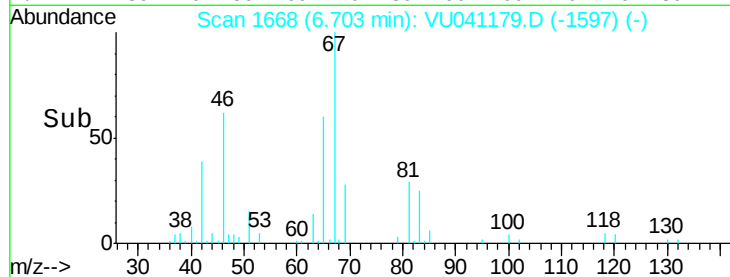
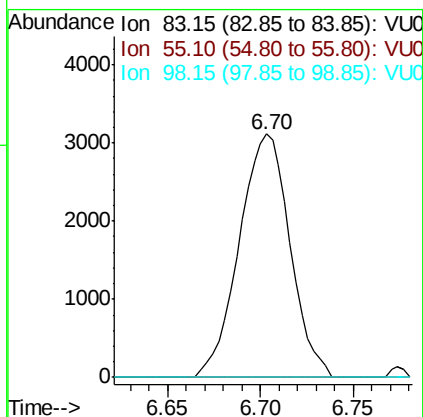
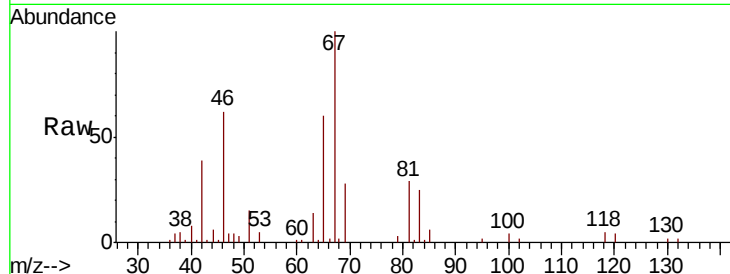




#35
Methylcyclohexane
Concen: 0.893 ug/L
RT: 6.70 min Scan# 1668
Delta R.T. -0.07 min
Lab File: VU041179.D
Acq: 10 Nov 2020 15:32

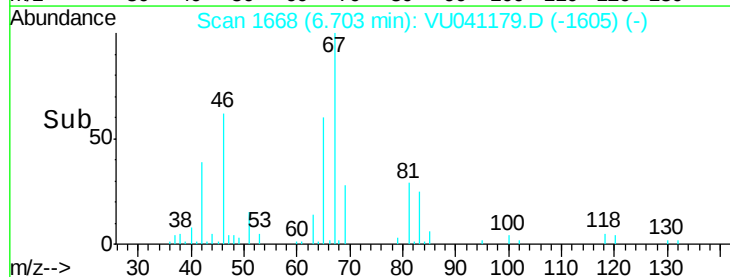
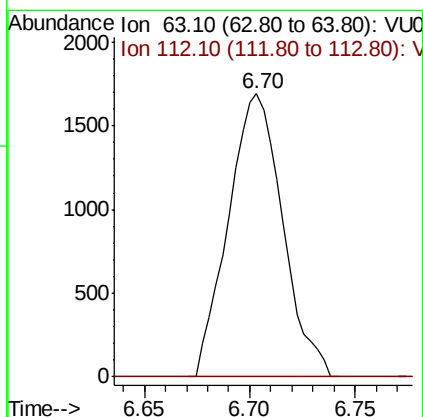
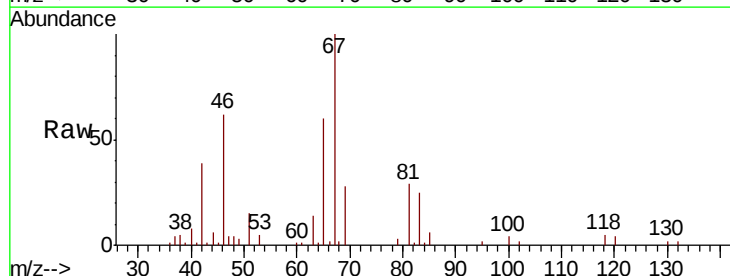
Instrument :
MSVOA_U
ClientSampled :
GB0W4

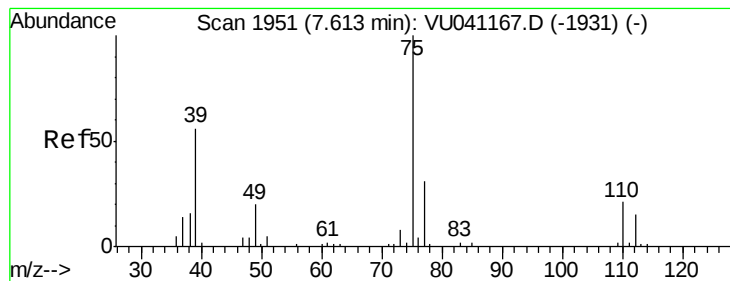
Tot Ion: 83 Resp: 5928
Ion Ratio Lower Upper
83 100
55 0.0 72.0 108.0#
98 0.0 36.6 55.0#



#37
1,2-Dichloropropane
Concen: 0.638 ug/L
RT: 6.70 min Scan# 1668
Delta R.T. -0.10 min
Lab File: VU041179.D
Acq: 10 Nov 2020 15:32

Tgt Ion: 63 Resp: 3020
Ion Ratio Lower Upper
63 100
112 0.0 3.6 5.4#



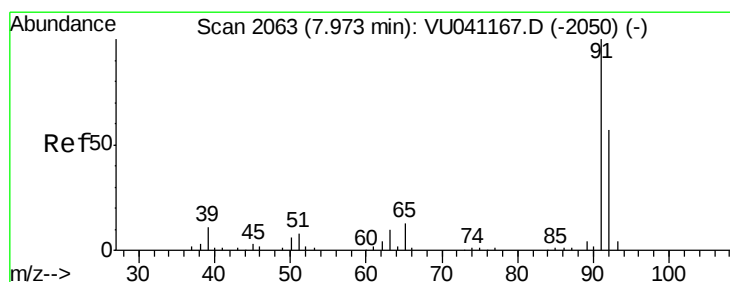
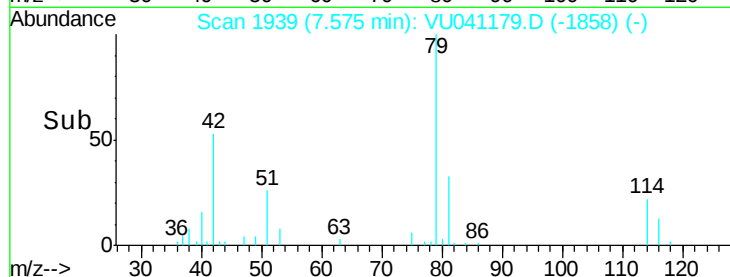
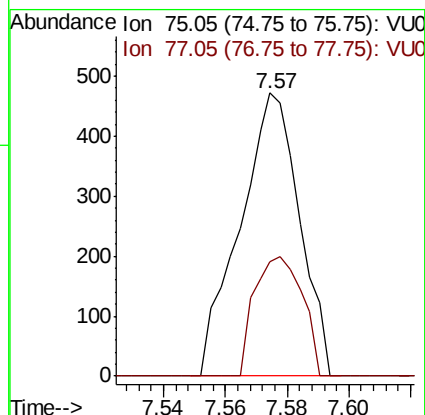
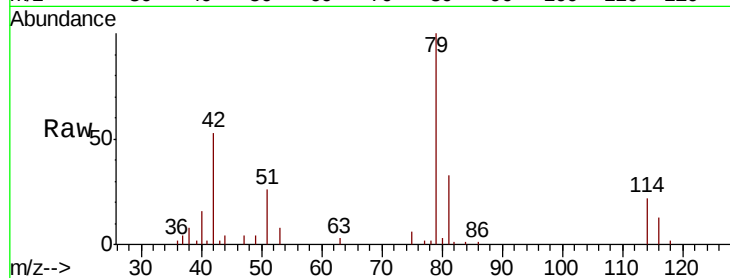


#39

cis-1,3-Dichloropropene
Concen: 0.097 ug/L
RT: 7.57 min Scan# 1939
Delta R.T. -0.04 min
Lab File: VU041179.D
Acq: 10 Nov 2020 15:32

Instrument :
MSVOA_U
ClientSampleId :
GB0W4

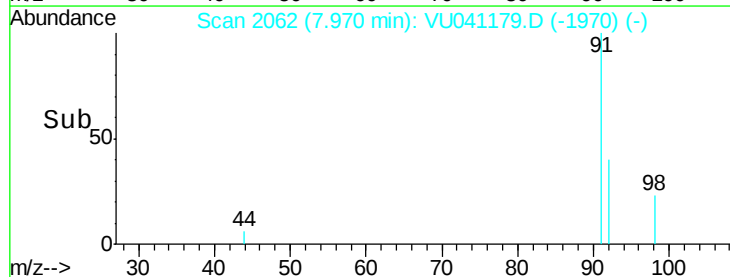
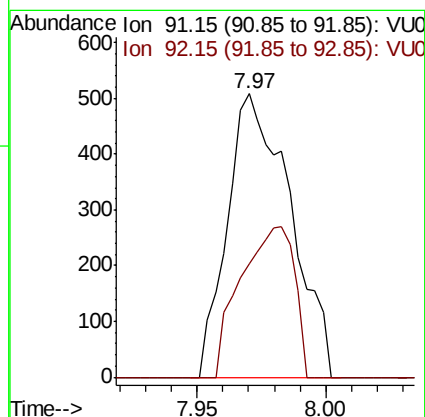
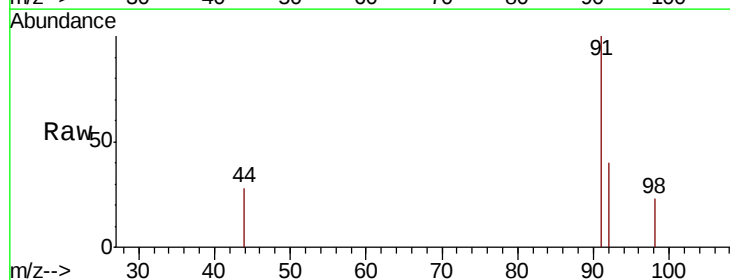
Tot Ion: 75 Resp: 632
Ion Ratio Lower Upper
75 100
77 40.3 22.7 42.3

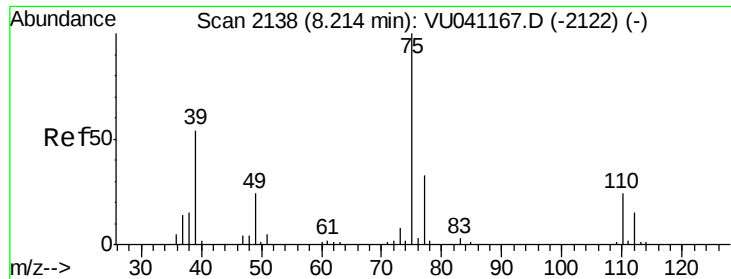


#42

Toluene
Concen: 0.049 ug/L
RT: 7.97 min Scan# 2062
Delta R.T. -0.00 min
Lab File: VU041179.D
Acq: 10 Nov 2020 15:32

Tgt Ion: 91 Resp: 862
Ion Ratio Lower Upper
91 100
92 40.2 40.6 75.4#

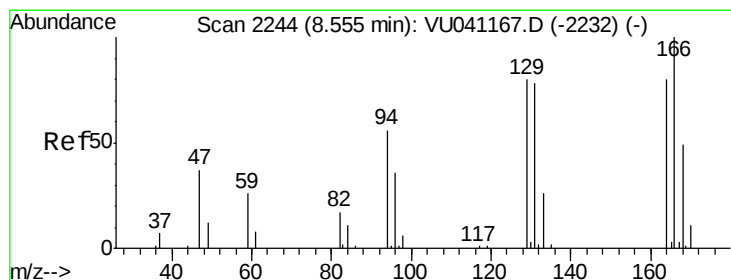
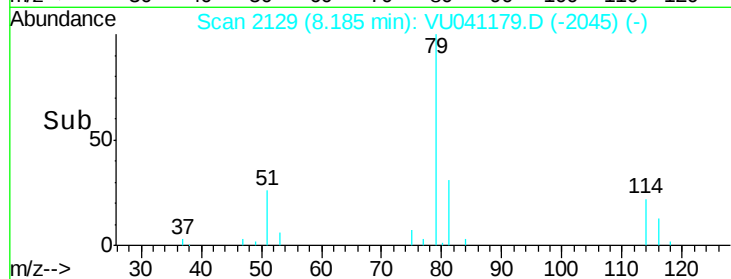
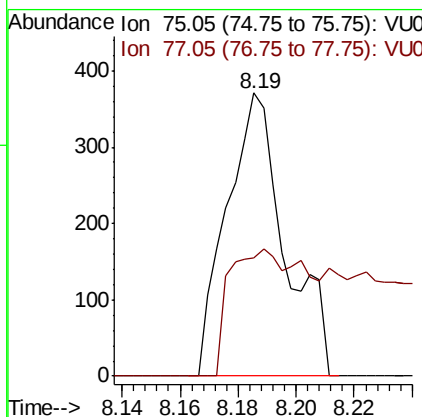
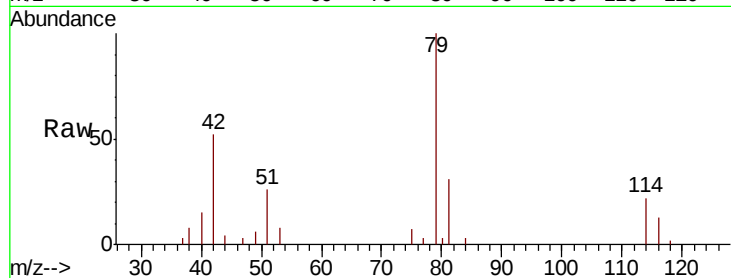




#44
trans-1,3-Dichloropropene
Concen: 0.085 ug/L
RT: 8.19 min Scan# 2129
Delta R.T. -0.03 min
Lab File: VU041179.D
Acq: 10 Nov 2020 15:32

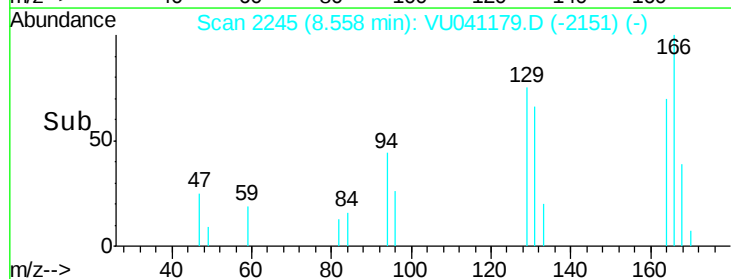
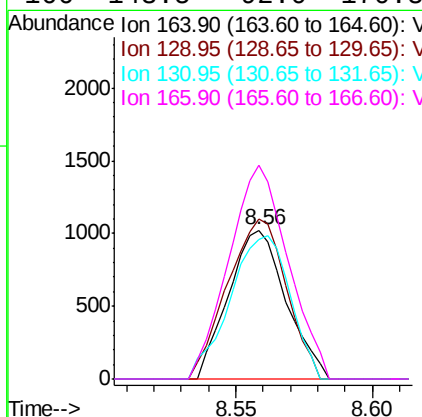
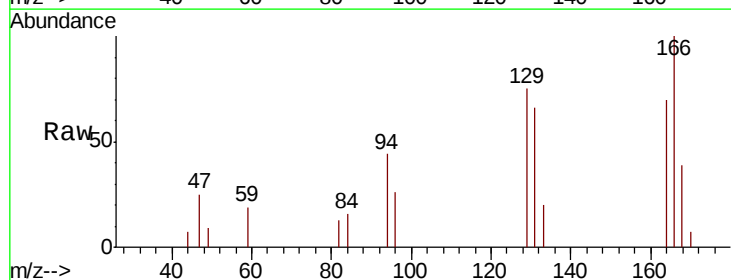
Instrument :
MSVOA_U
ClientSampleId :
GB0W4

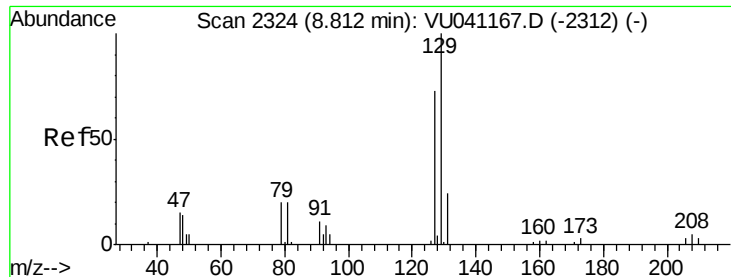
Tot Ion: 75 Resp: 517
Ion Ratio Lower Upper
75 100
77 41.8 23.3 43.3



#47
Tetrachloroethene
Concen: 0.457 ug/L
RT: 8.56 min Scan# 2245
Delta R.T. 0.00 min
Lab File: VU041179.D
Acq: 10 Nov 2020 15:32

Tgt Ion:164 Resp: 1495
Ion Ratio Lower Upper
164 100
129 107.7 70.3 130.7
131 94.0 70.8 131.4
166 143.5 92.0 170.8





#49

Dibromochloromethane

Concen: 0.404 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. -0.25 min

Lab File: VU041179.D

Acq: 10 Nov 2020 15:32

Instrument :

MSVOA_U

ClientSampleId :

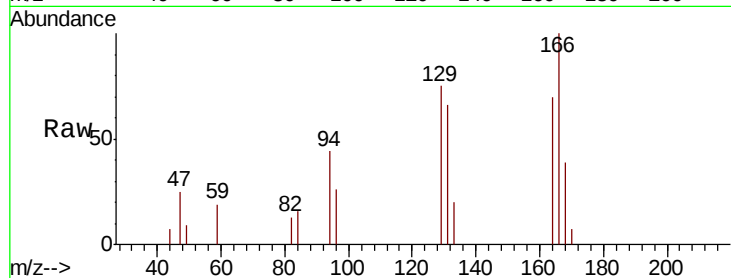
GB0W4

Tot Ion:129 Resp: 1654

Ion Ratio Lower Upper

129 100

127 0.0 53.4 99.2#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V

8.56

1000

800

600

400

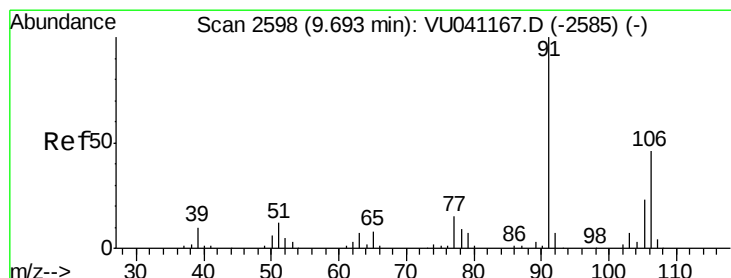
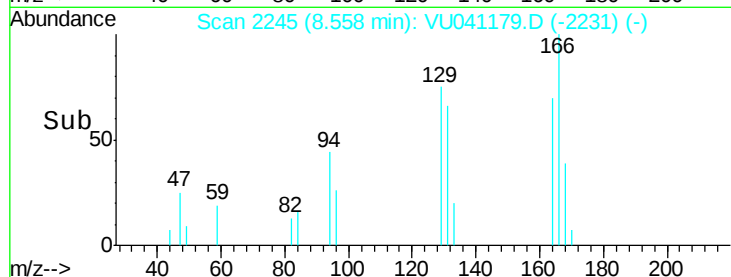
200

0

8.55

8.60

Time-->



#53

m,p-Xylene

Concen: 0.276 ug/L

RT: 9.69 min Scan# 2598

Delta R.T. 0.00 min

Lab File: VU041179.D

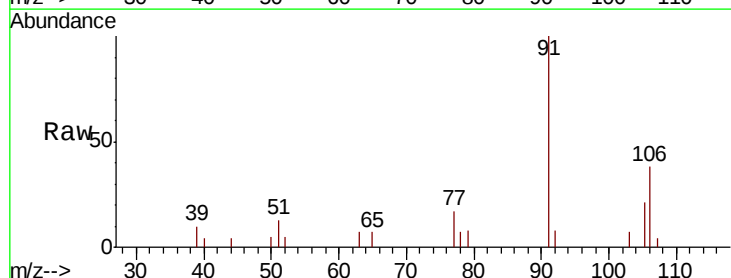
Acq: 10 Nov 2020 15:32

Tgt Ion:106 Resp: 1881

Ion Ratio Lower Upper

106 100

91 260.6 150.9 280.3



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0

3000

2500

2000

1500

1000

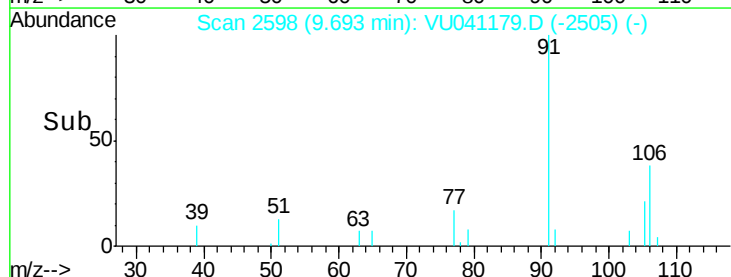
500

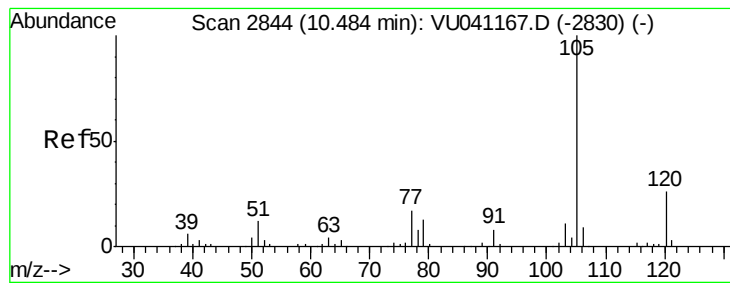
0

9.65

9.70

Time-->





#56

Isopropylbenzene

Concen: 0.031 ug/L

RT: 10.48 min Scan# 2843

Delta R.T. -0.00 min

Lab File: VU041179.D

Acq: 10 Nov 2020 15:32

Instrument :

MSVOA_U

ClientSampleId :

GB0W4

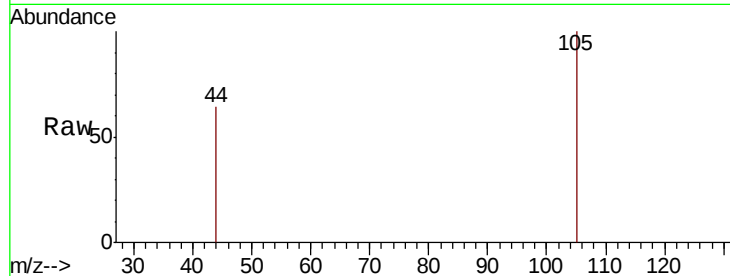
Tot Ion: 105 Resp: 528

Ion Ratio Lower Upper

105 100

120 0.0 20.7 31.1#

77 0.0 13.8 20.6#

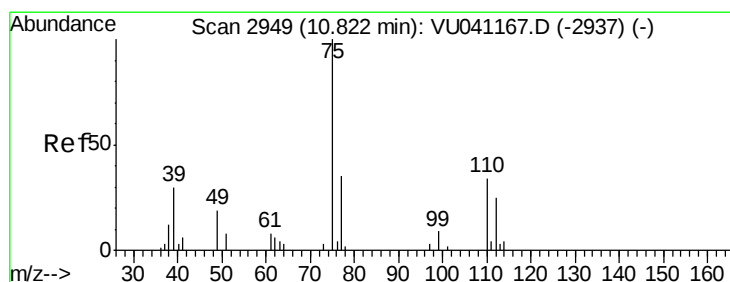
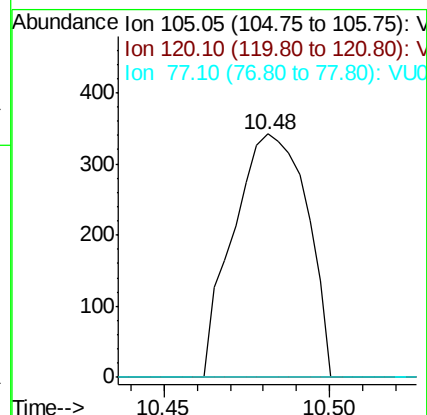
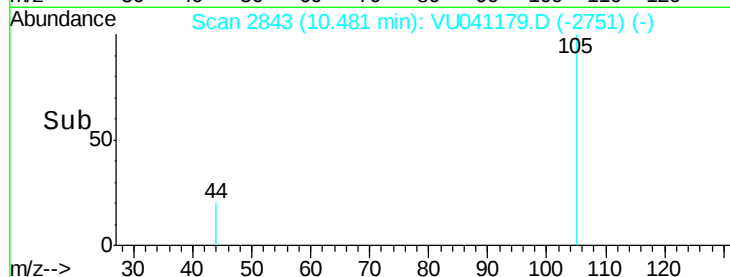


Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V

Time-->



#59

1,2,3-Trichloropropane

Concen: 1.058 ug/L

RT: 11.81 min Scan# 3255

Delta R.T. 0.98 min

Lab File: VU041179.D

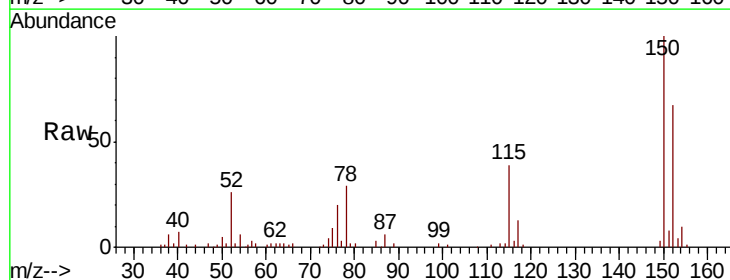
Acq: 10 Nov 2020 15:32

Tgt Ion: 75 Resp: 3733

Ion Ratio Lower Upper

75 100

77 33.1 25.7 38.5



Abundance Ion 75.00 (74.70 to 75.70): V

Ion 77.00 (76.70 to 77.70): V

Time-->

