

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU062520\
 Data File : VU039132.D
 Acq On : 25 Jun 2020 23:09
 Operator : SY/MD
 Sample : L3121-02
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 F9F01

Quant Time: Jun 26 04:22:08 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR062320WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Jun 26 04:20:15 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	262422	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.43	117	268496	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.82	152	123476	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	72905	3.79	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	75.80%
7) Chloroethane-d5	1.93	69	71993	4.53	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	90.60%
11) 1,1-Dichloroethene-d2	2.59	63	117776	3.19	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	63.80%
20) 2-Butanone-d5	4.69	46	400050	57.68	ug/L	0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	115.36%
24) Chloroform-d	5.10	84	178913	4.73	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.60%
26) 1,2-Dichloroethane-d4	5.74	65	112920	4.86	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.20%
32) Benzene-d6	5.76	84	345651	4.64	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.80%
36) 1,2-Dichloropropane-d6	6.72	67	124402	4.97	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	99.40%
41) Toluene-d8	7.92	98	299472	4.81	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.20%
43) trans-1,3-Dichloropropene-	8.20	79	50020	4.60	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	92.00%
46) 2-Hexanone-d5	8.66	63	328908	58.61	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	117.22%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	112117	4.82	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	96.40%
64) 1,2-Dichlorobenzene-d4	12.20	152	122228	5.31	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	106.20%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.62	62	3085	0.121	ug/L #	43
12) 1,1-Dichloroethene	2.59	96	1666	0.092	ug/L #	1
13) Acetone	2.62	43	8288	1.760	ug/L	54
14) Carbon disulfide	2.82	76	14788	0.244	ug/L	98
15) Methyl Acetate	2.99	43	2333	0.209	ug/L #	63
16) Methylene chloride	3.07	84	1466	0.065	ug/L #	10
17) Methyl tert-butyl Ether	3.40	73	15622132	301.934	ug/L	99
18) trans-1,2-Dichloroethene	3.39	96	141457	7.274	ug/L	97
22) cis-1,2-Dichloroethene	4.71	96	167930	8.002	ug/L	98
27) 1,2-Dichloroethane	5.83	62	27943	1.010	ug/L	99
30) Cyclohexane	5.41	56	37975	1.218	ug/L #	74
33) Benzene	5.81	78	151871	1.800	ug/L	100
34) Trichloroethene	6.57	95	40892	2.004	ug/L	95
35) Methylcyclohexane	6.77	83	30929	1.021	ug/L #	12
38) Bromodichloromethane	7.15	83	2157	0.076	ug/L #	25
39) cis-1,3-Dichloropropene	7.59	75	3950	0.125	ug/L #	1
42) Toluene	7.99	91	10880	0.130	ug/L	94

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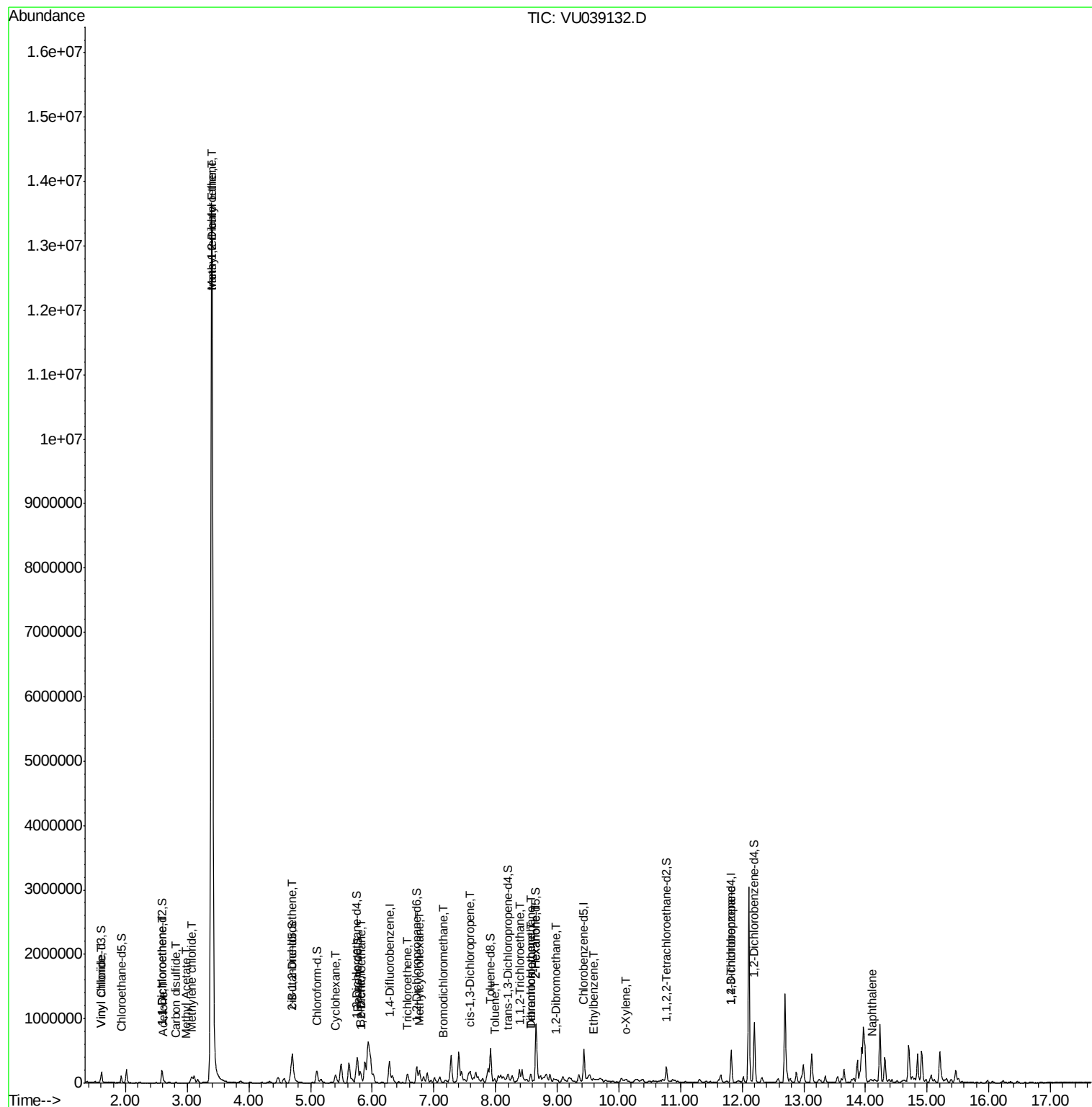
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) 1,1,2-Trichloroethane	8.39	97	63891	3.761	ug/L #	17
47) Tetrachloroethene	8.57	164	28168	1.915	ug/L	95
48) 2-Hexanone	8.66	43	59956	4.794	ug/L #	54
49) Dibromochloromethane	8.57	129	28487	1.542	ug/L #	10
50) 1,2-Dibromoethane	8.96	107	1787	0.111	ug/L #	1
52) Ethylbenzene	9.59	91	14786	0.168	ug/L	95
54) o-Xylene	10.11	106	10237	0.329	ug/L	95
59) 1,2,3-Trichloropropane	11.82	75	17638	1.024	ug/L	90
69) Naphthalene	14.11	128	21298	0.403	ug/L #	78

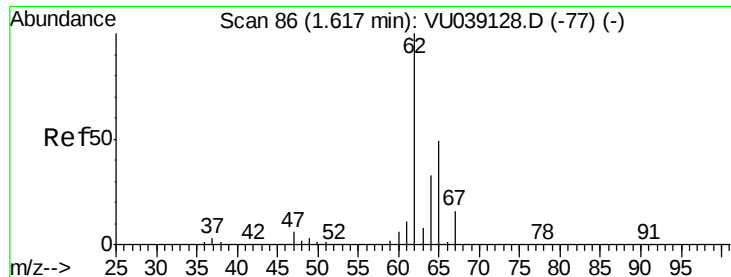
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#5

Vinyl chloride

Concen: 0.121 ug/L

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

Lab File: VU039132.D

Acq: 25 Jun 2020 23:09

Instrument :

MSVOA_U

ClientSampled :

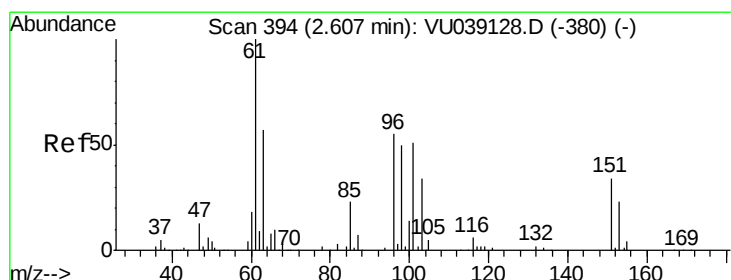
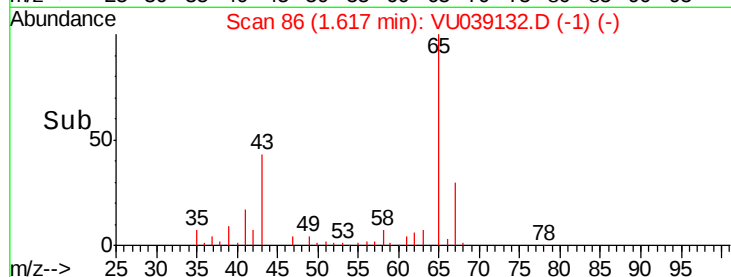
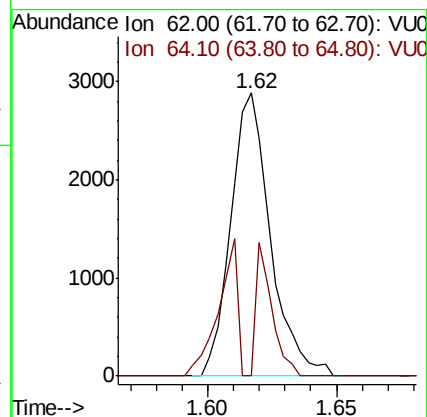
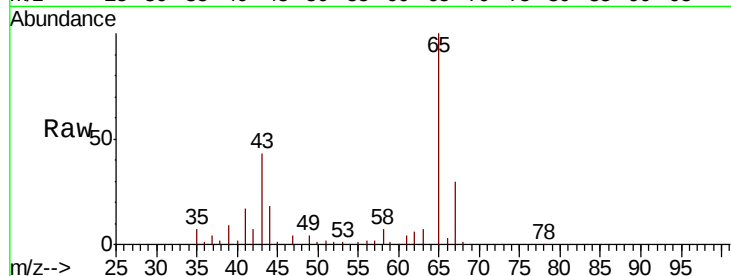
F9F01

Tot Ion: 62 Resp: 3085

Ion Ratio Lower Upper

62 100

64 0.0 22.4 41.6#



#12

1,1-Dichloroethene

Concen: 0.092 ug/L

RT: 2.59 min Scan# 390

Delta R.T. -0.01 min

Lab File: VU039132.D

Acq: 25 Jun 2020 23:09

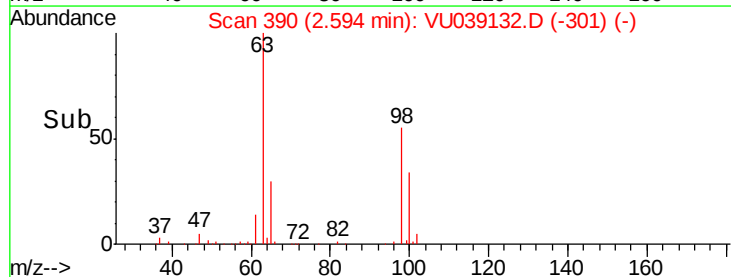
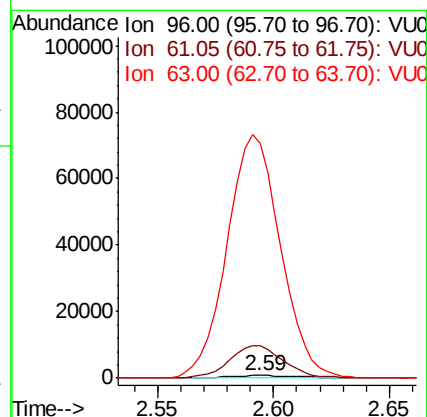
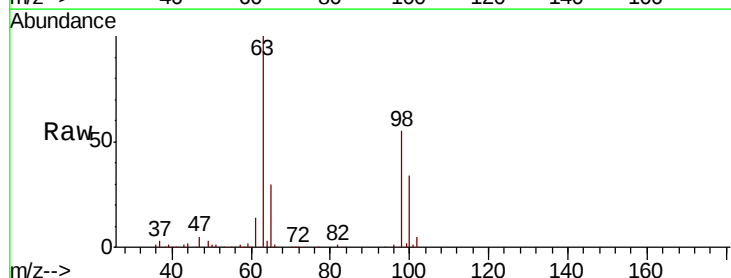
Tgt Ion: 96 Resp: 1666

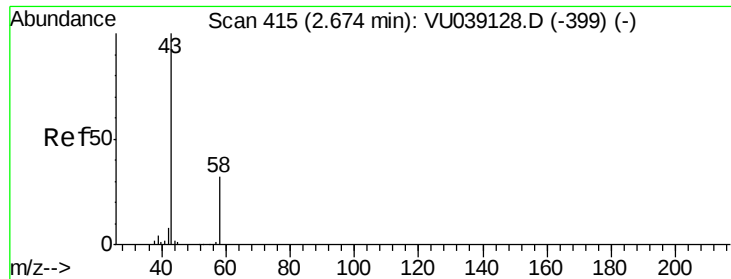
Ion Ratio Lower Upper

96 100

61 1215.1 125.1 232.3#

63 8964.7 82.3 152.8#





#13

Acetone

Concen: 1.760 ug/L

RT: 2.62 min Scan# 399

Delta R.T. -0.05 min

Lab File: VU039132.D

Acq: 25 Jun 2020 23:09

Instrument :

MSVOA_U

ClientSampleId :

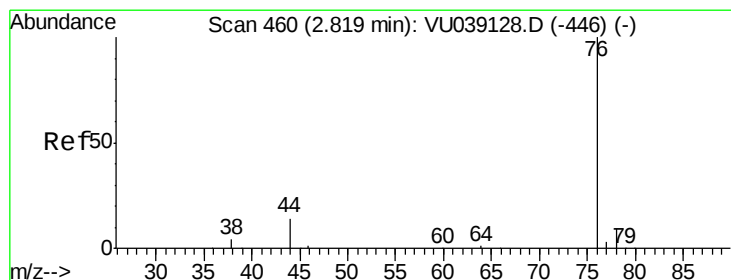
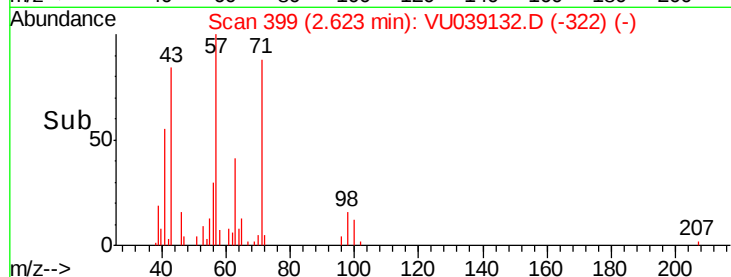
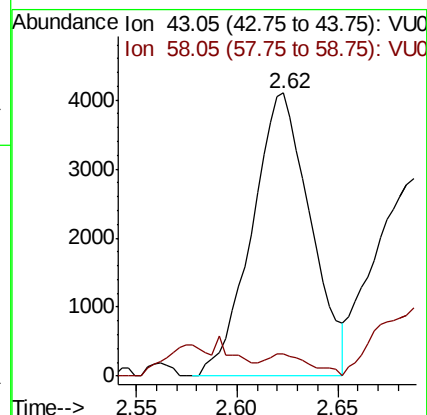
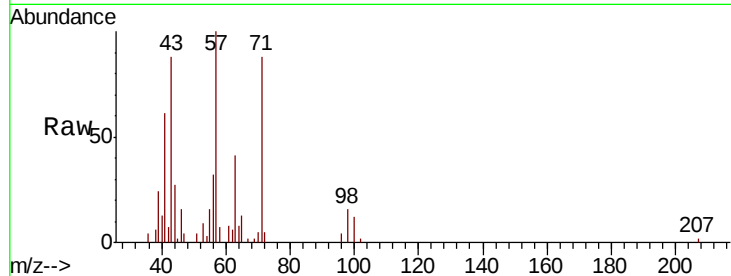
F9F01

Tot Ion: 43 Resp: 8288

Ion Ratio Lower Upper

43 100

58 6.5 0.0 64.4



#14

Carbon disulfide

Concen: 0.244 ug/L

RT: 2.82 min Scan# 460

Delta R.T. 0.00 min

Lab File: VU039132.D

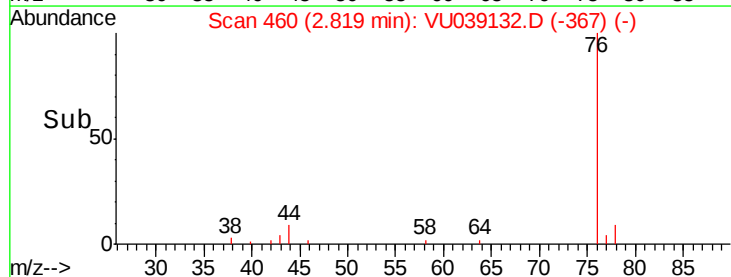
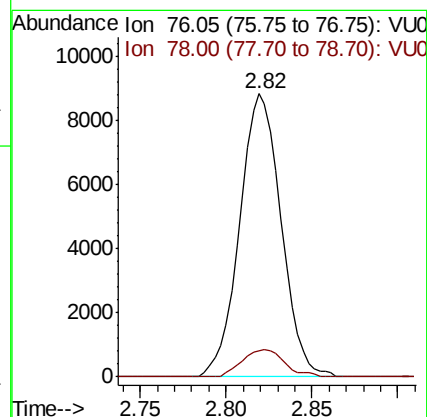
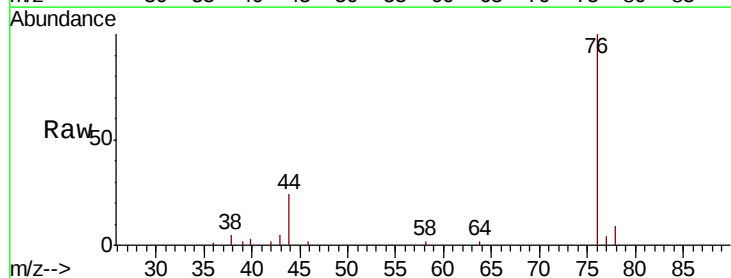
Acq: 25 Jun 2020 23:09

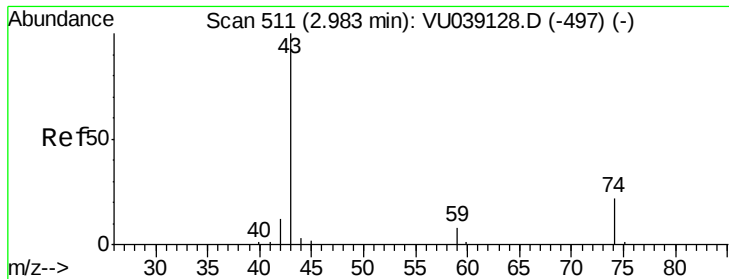
Tgt Ion: 76 Resp: 14788

Ion Ratio Lower Upper

76 100

78 9.4 7.0 10.6

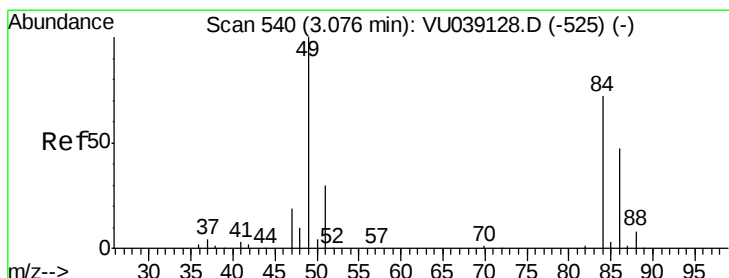
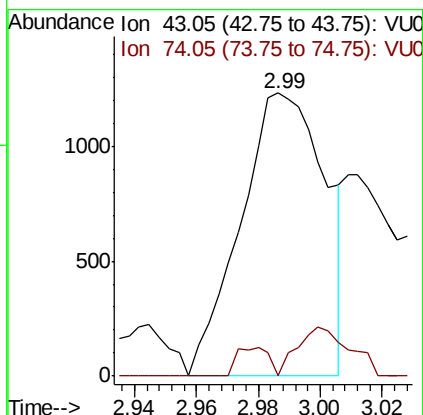
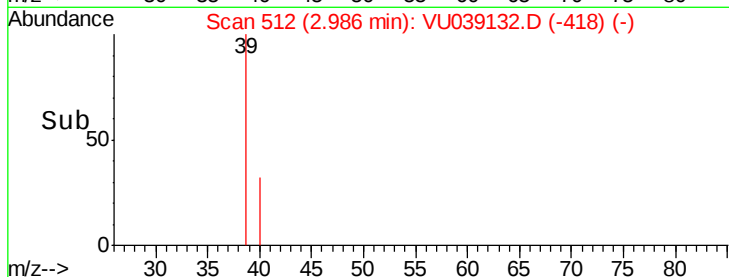
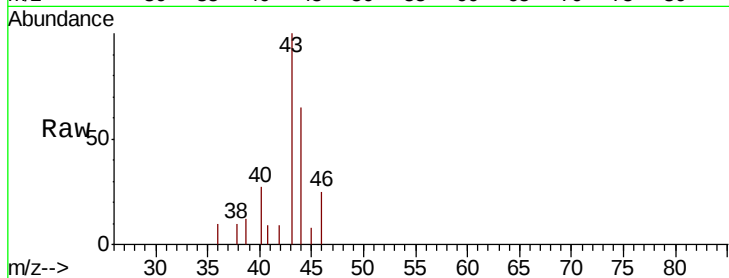




#15
Methyl Acetate
Concen: 0.209 ug/L
RT: 2.99 min Scan# 512
Delta R.T. 0.00 min
Lab File: VU039132.D
Acq: 25 Jun 2020 23:09

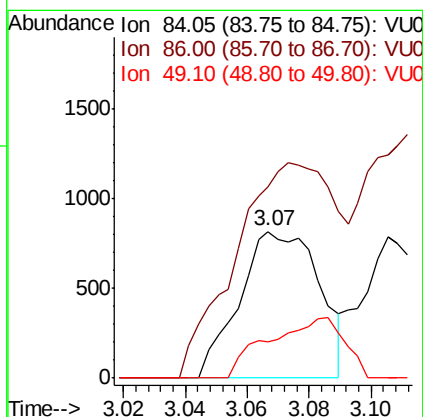
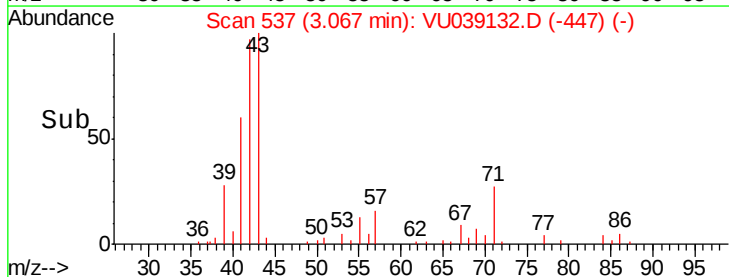
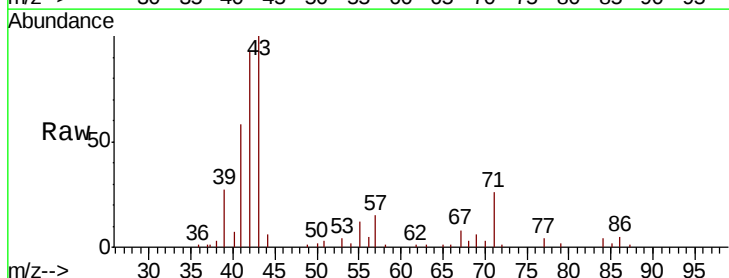
Instrument :
MSVOA_U
ClientSampleId :
F9F01

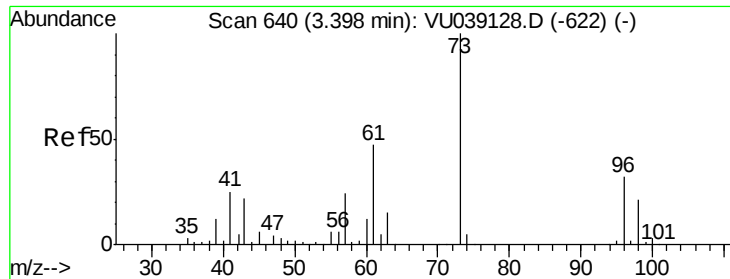
Tot Ion: 43 Resp: 2333
Ion Ratio Lower Upper
43 100
74 3.8 17.0 25.4#



#16
Methylene chloride
Concen: 0.065 ug/L
RT: 3.07 min Scan# 537
Delta R.T. -0.01 min
Lab File: VU039132.D
Acq: 25 Jun 2020 23:09

Tgt Ion: 84 Resp: 1466
Ion Ratio Lower Upper
84 100
86 130.3 44.1 81.9#
49 24.7 93.1 172.9#



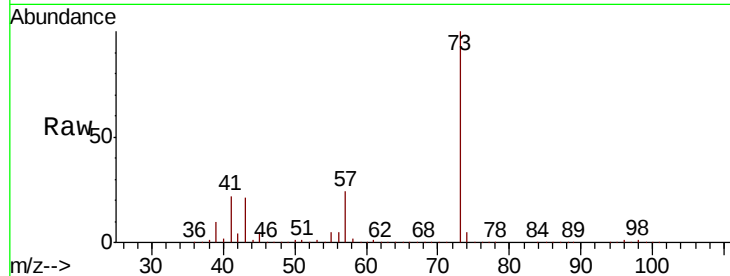


#17

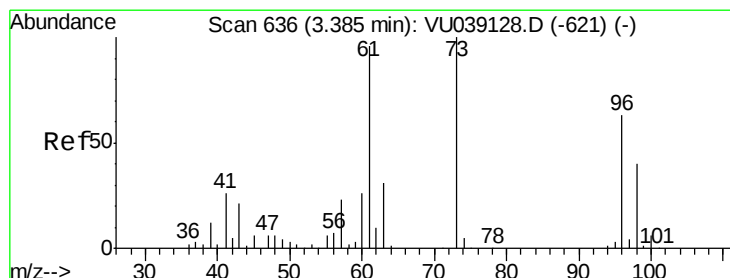
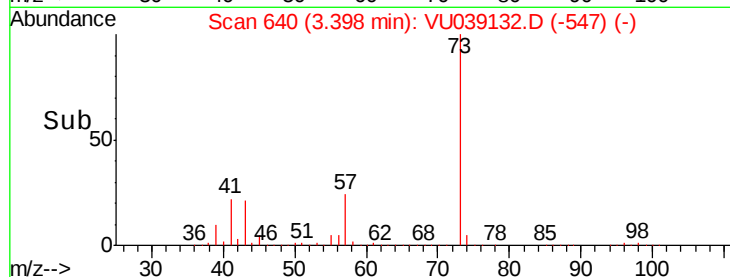
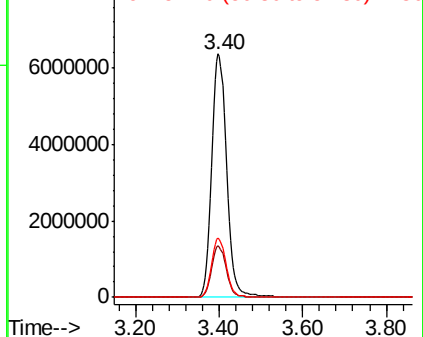
Methvl tert-butvl Ether
 Concen: 301.934 ug/L
 RT: 3.40 min Scan# 640
 Delta R.T. 0.00 min
 Lab File: VU039132.D
 Acq: 25 Jun 2020 23:09

Instrument :
 MSVOA_U
 ClientSampleId :
 F9F01

Tot Ion: 73 Resp:15622132
 Ion Ratio Lower Upper
 73 100
 43 20.9 16.6 24.8
 57 23.9 18.2 27.4



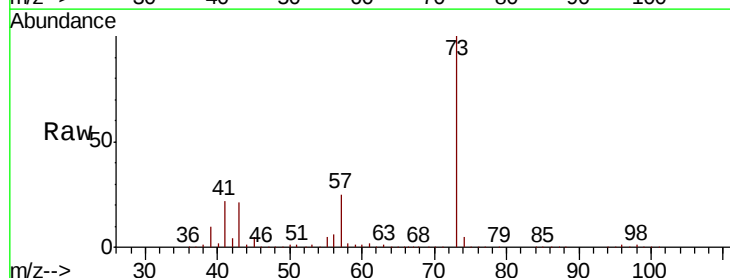
Abundance Ion 73.10 (72.80 to 73.80): VU0
 Ion 43.05 (42.75 to 43.75): VU0
 Ion 57.10 (56.80 to 57.80): VU0



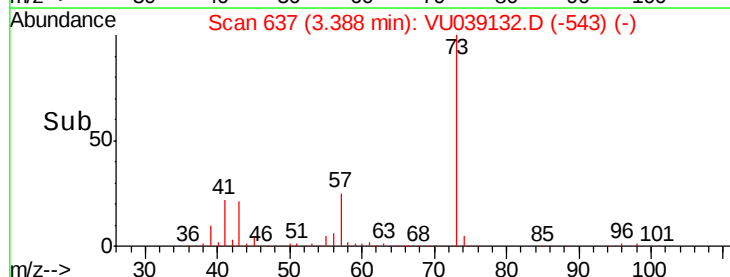
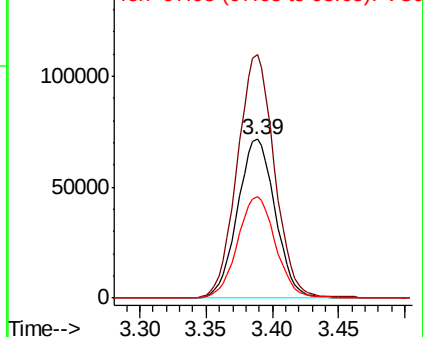
#18

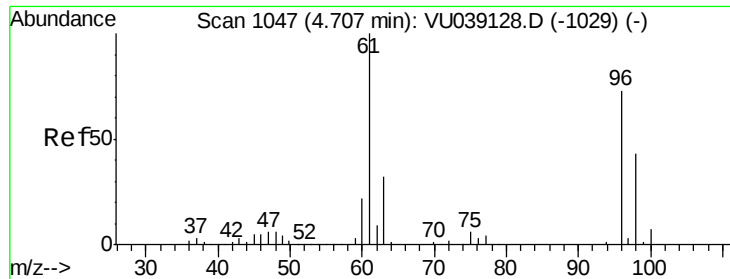
trans-1,2-Dichloroethene
 Concen: 7.274 ug/L
 RT: 3.39 min Scan# 637
 Delta R.T. 0.00 min
 Lab File: VU039132.D
 Acq: 25 Jun 2020 23:09

Tgt Ion: 96 Resp: 141457
 Ion Ratio Lower Upper
 96 100
 61 153.3 103.5 192.3
 98 63.9 44.9 83.5



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

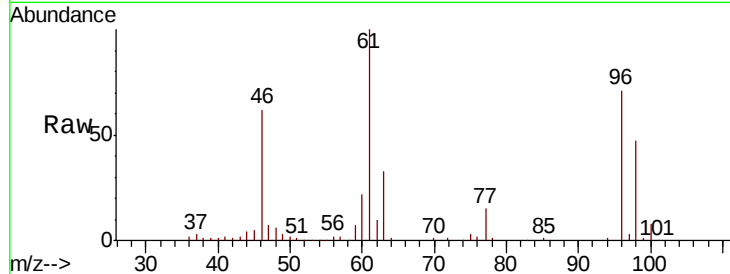




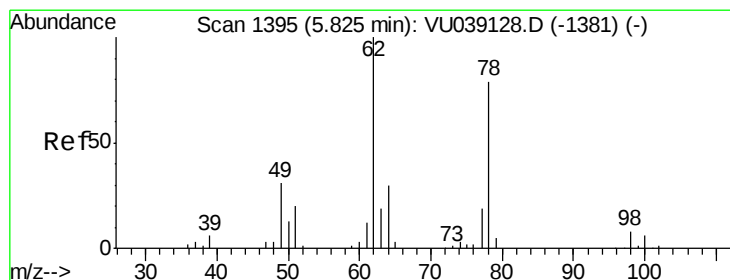
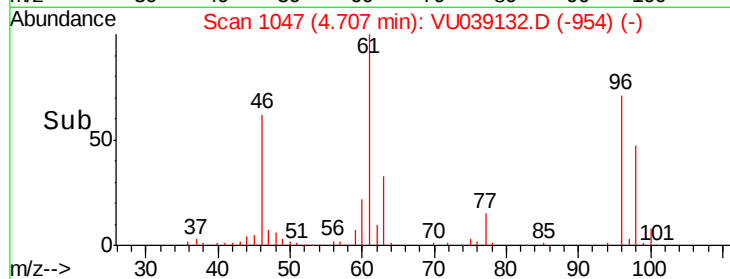
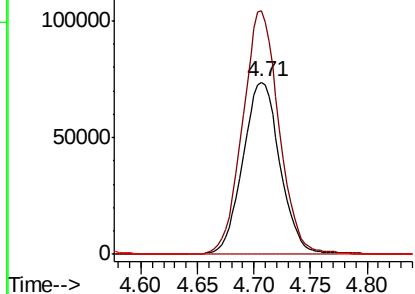
#22
 cis-1,2-Dichloroethene
 Concen: 8.002 ug/L
 RT: 4.71 min Scan# 1047
 Delta R.T. 0.00 min
 Lab File: VU039132.D
 Acq: 25 Jun 2020 23:09

Instrument :
 MSVOA_U
 ClientSampled :
 F9F01

Tot Ion: 96 Resp: 167930
 Ion Ratio Lower Upper
 96 100
 61 141.3 100.8 187.2
 68 0.0 0.0 0.0

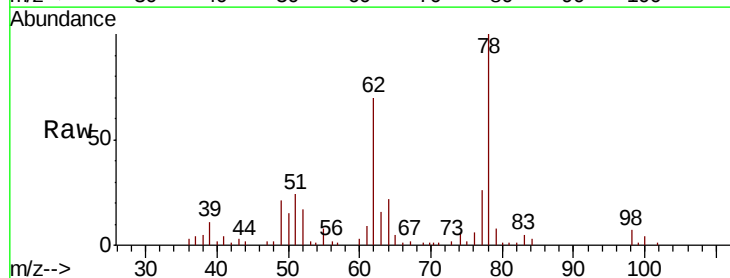


Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 68.15 (67.85 to 68.85): VU0

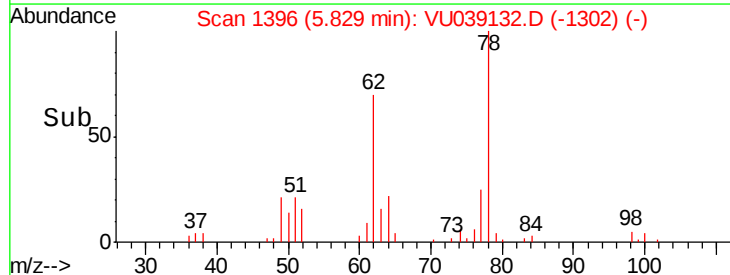
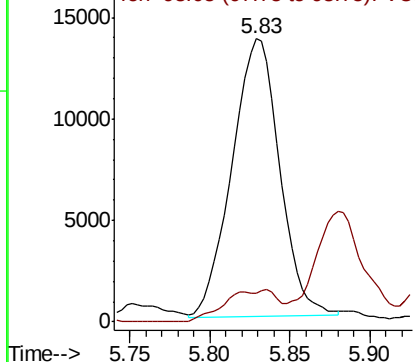


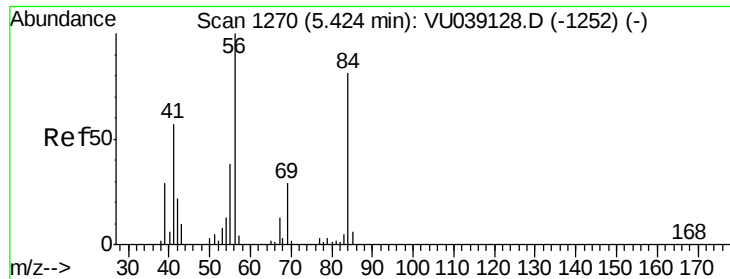
#27
 1,2-Dichloroethane
 Concen: 1.010 ug/L
 RT: 5.83 min Scan# 1396
 Delta R.T. 0.00 min
 Lab File: VU039132.D
 Acq: 25 Jun 2020 23:09

Tgt Ion: 62 Resp: 27943
 Ion Ratio Lower Upper
 62 100
 98 10.1 7.7 11.5



Abundance Ion 62.00 (61.70 to 62.70): VU0
 Ion 98.05 (97.75 to 98.75): VU0

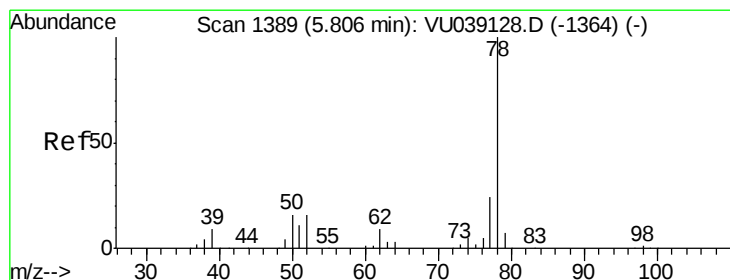
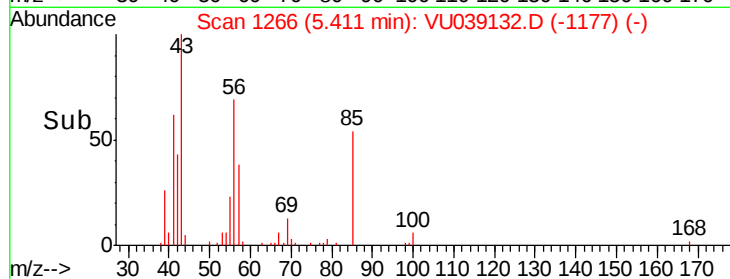
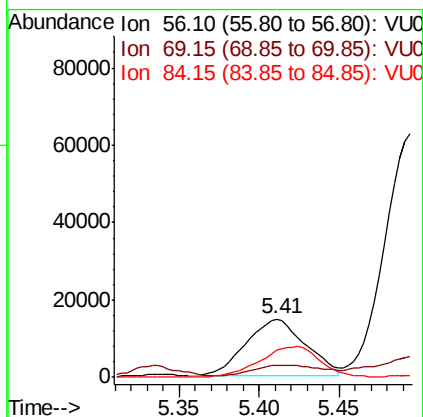
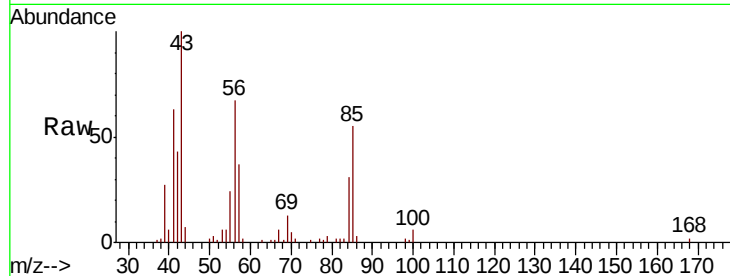




#30
Cyclohexane
Concen: 1.218 ug/L
RT: 5.41 min Scan# 1266
Delta R.T. -0.01 min
Lab File: VU039132.D
Acq: 25 Jun 2020 23:09

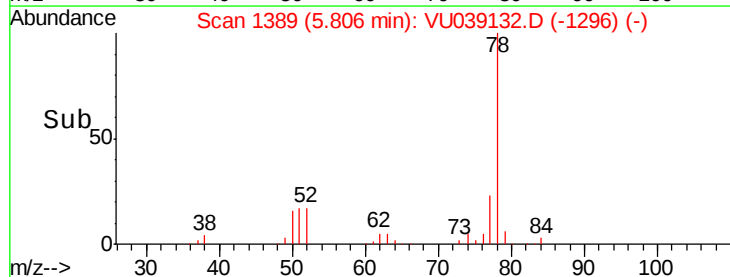
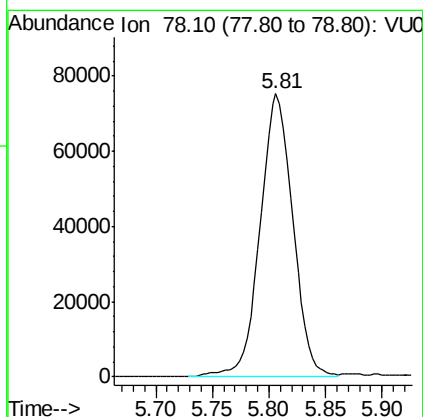
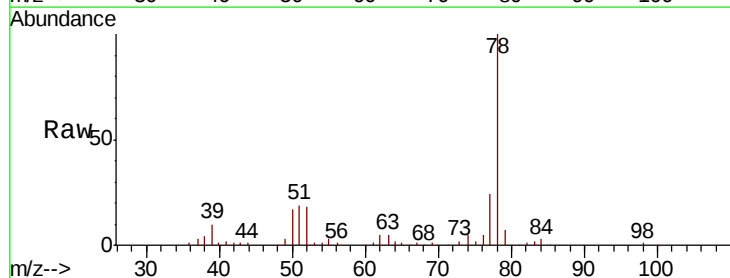
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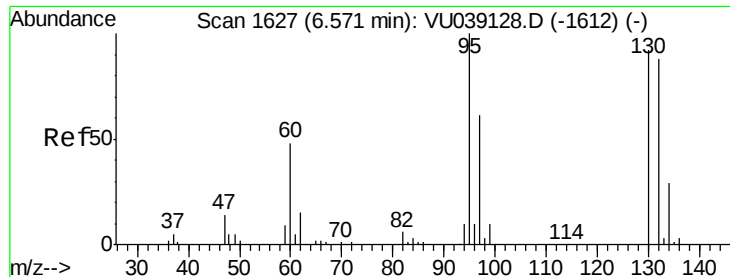
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Ion Ratio Lower Upper
56 100
69 26.9 23.3 34.9
84 53.3 67.1 100.7#



#33
Benzene
Concen: 1.800 ug/L
RT: 5.81 min Scan# 1389
Delta R.T. 0.00 min
Lab File: VU039132.D
Acq: 25 Jun 2020 23:09

Tgt Ion: 78 Resp: 151871

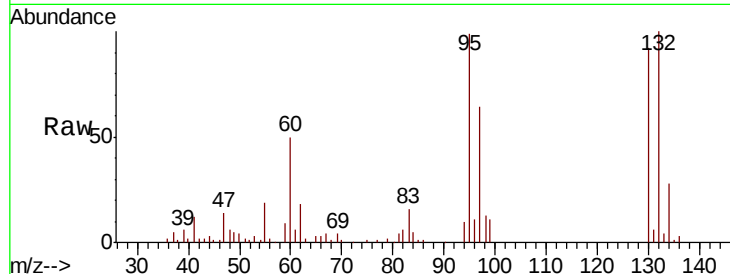




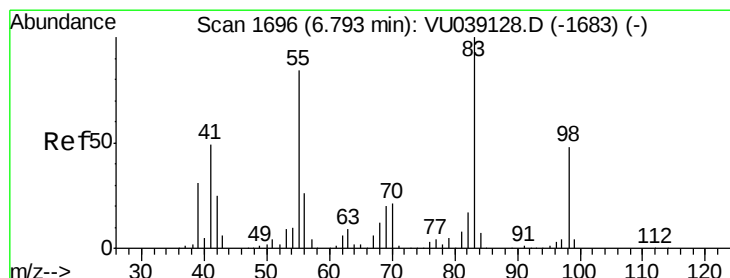
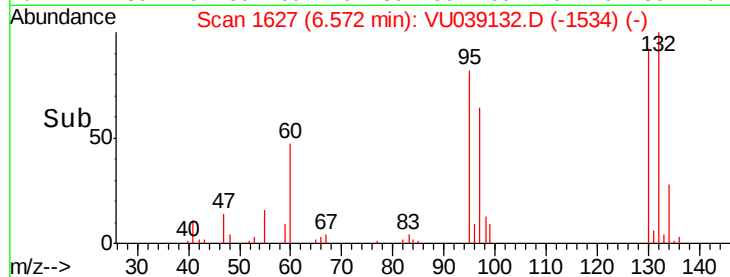
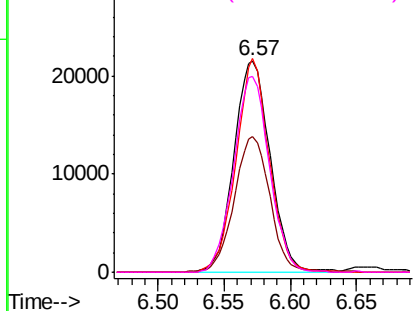
#34
 Trichloroethene
 Concen: 2.004 ug/L
 RT: 6.57 min Scan# 1627
 Delta R.T. 0.00 min
 Lab File: VU039132.D
 Acq: 25 Jun 2020 23:09

Instrument :
 MSVOA_U
 ClientSampleId :
 F9F01

Tot Ion: 95 Resp: 40892
 Ion Ratio Lower Upper
 95 100
 97 64.2 45.1 83.7
 132 100.9 65.1 120.9
 130 92.6 68.6 127.4

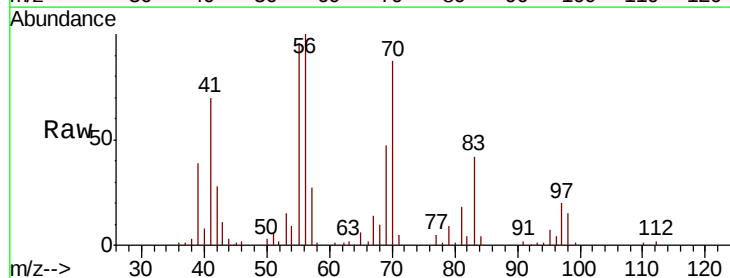


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 96.95 (96.65 to 97.65): VU0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

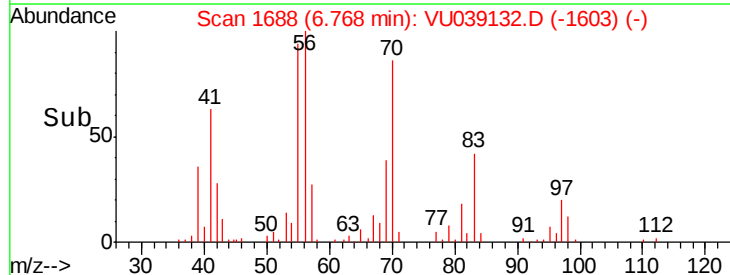
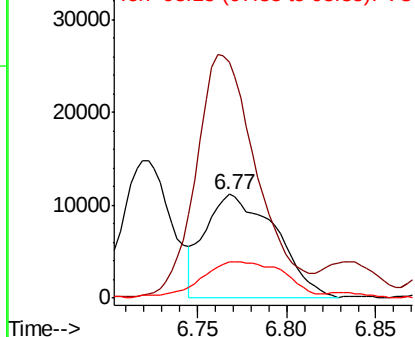


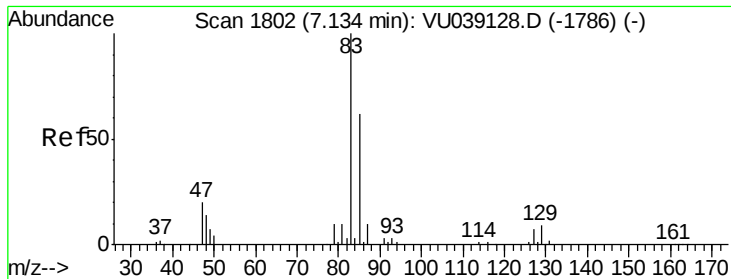
#35
 Methylcyclohexane
 Concen: 1.021 ug/L
 RT: 6.77 min Scan# 1688
 Delta R.T. -0.03 min
 Lab File: VU039132.D
 Acq: 25 Jun 2020 23:09

Tgt Ion: 83 Resp: 30929
 Ion Ratio Lower Upper
 83 100
 55 201.7 65.5 98.3#
 98 41.5 36.5 54.7



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





#38

Bromodichloromethane

Concen: 0.076 ug/L

RT: 7.15 min Scan# 1807

Delta R.T. 0.02 min

Lab File: VU039132.D

Acq: 25 Jun 2020 23:09

Instrument :

MSVOA_U

ClientSampled :

F9F01

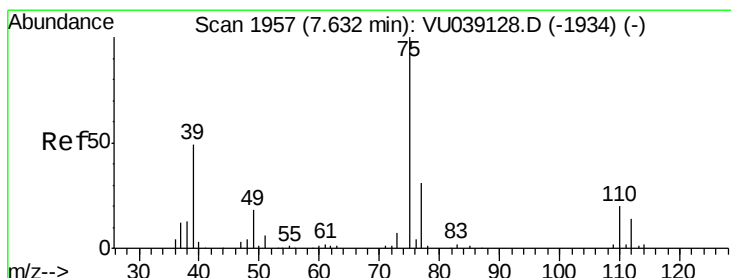
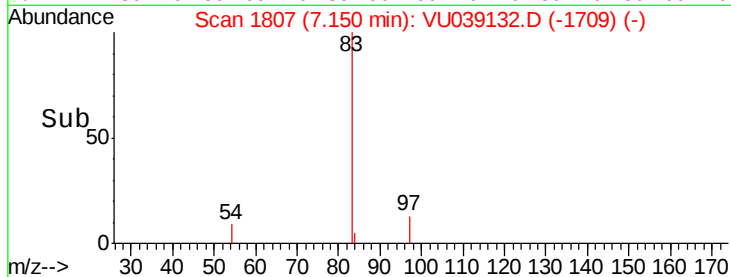
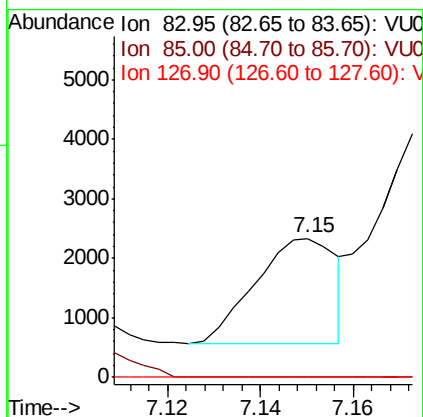
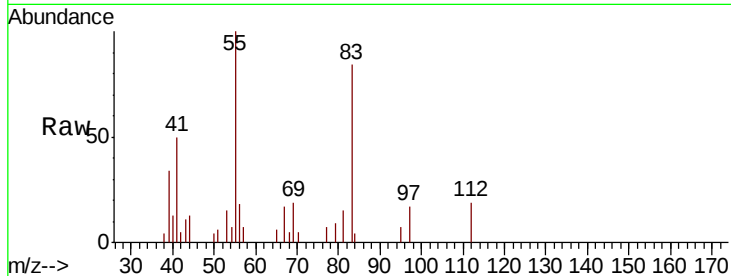
Tot Ion: 83 Resp: 2157

Ion Ratio Lower Upper

83 100

85 0.0 44.9 83.3#

127 0.0 6.3 9.5#



#39

cis-1,3-Dichloropropene

Concen: 0.125 ug/L

RT: 7.59 min Scan# 1943

Delta R.T. -0.04 min

Lab File: VU039132.D

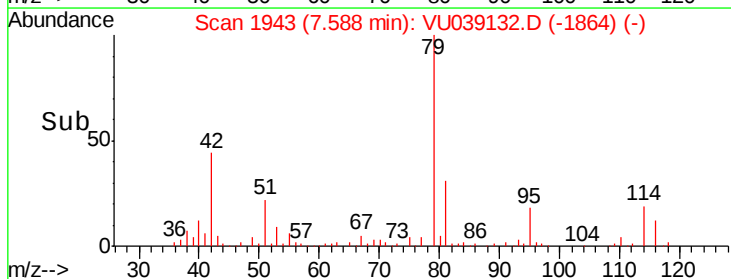
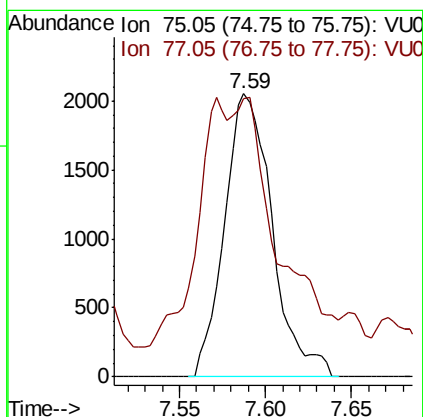
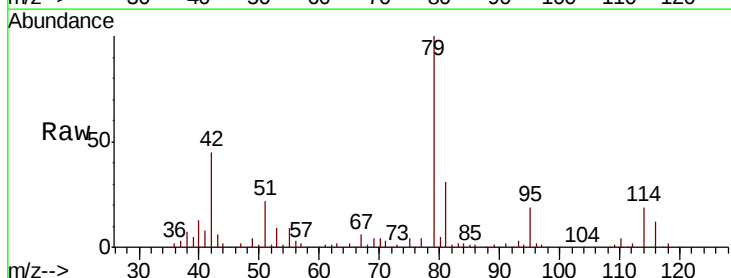
Acq: 25 Jun 2020 23:09

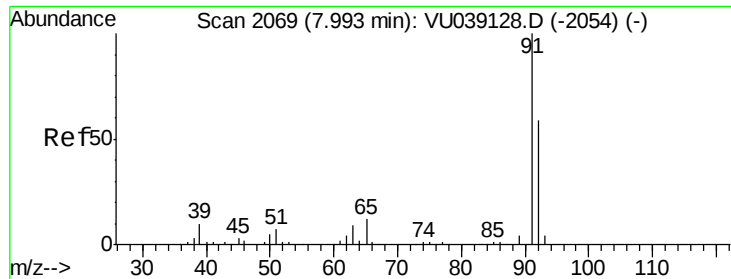
Tgt Ion: 75 Resp: 3950

Ion Ratio Lower Upper

75 100

77 98.2 21.6 40.0#





#42

Toluene

Concen: 0.130 ug/L

RT: 7.99 min Scan# 2069

Delta R.T. 0.00 min

Lab File: VU039132.D

Acq: 25 Jun 2020 23:09

Instrument :

MSVOA_U

ClientSampleId :

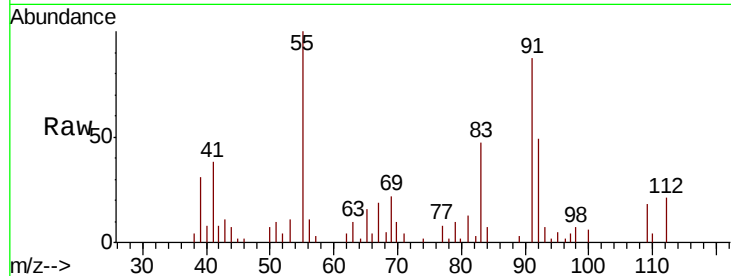
F9F01

Tot Ion: 91 Resp: 10880

Ion Ratio Lower Upper

91 100

92 55.6 42.1 78.1



Abundance Ion 91.15 (90.85 to 91.85): VU039128.D (-2054) (-)

Ion 92.15 (91.85 to 92.85): VU039128.D (-2054) (-)

7.99

6000

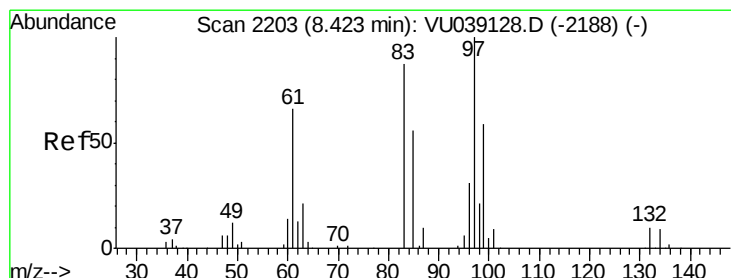
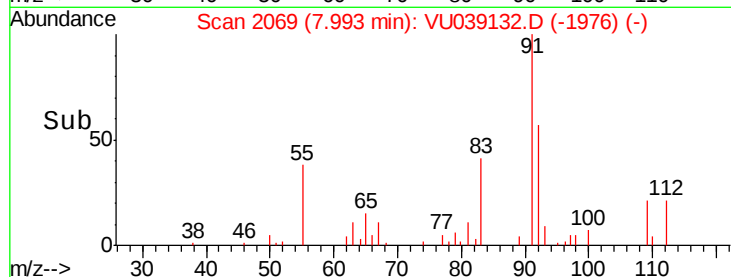
4000

2000

0

7.95 8.00 8.05

Time-->



#45

1,1,2-Trichloroethane

Concen: 3.761 ug/L

RT: 8.39 min Scan# 2192

Delta R.T. -0.04 min

Lab File: VU039132.D

Acq: 25 Jun 2020 23:09

Tgt Ion: 97 Resp: 63891

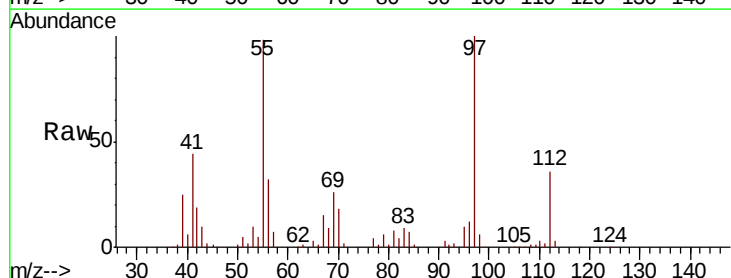
Ion Ratio Lower Upper

97 100

99 0.3 45.4 84.4#

83 9.5 64.4 119.6#

85 0.9 41.7 77.5#



Abundance Ion 96.95 (96.65 to 97.65): VU039128.D (-2188) (-)

Ion 99.05 (98.75 to 99.75): VU039128.D (-2188) (-)

Ion 82.95 (82.65 to 83.65): VU039128.D (-2188) (-)

Ion 85.00 (84.70 to 85.70): VU039128.D (-2188) (-)

8.39

50000

40000

30000

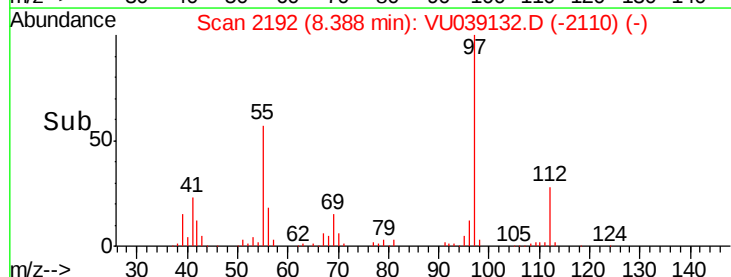
20000

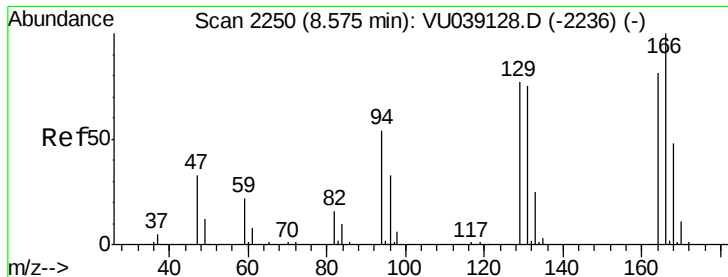
10000

0

8.30 8.35 8.40 8.45

Time-->





#47

Tetrachloroethene

Concen: 1.915 ug/L

RT: 8.57 min Scan# 2249

Delta R.T. -0.00 min

Lab File: VU039132.D

Acq: 25 Jun 2020 23:09

Instrument :

MSVOA_U

ClientSampled :

F9F01

Tot Ion:164 Resp: 28168

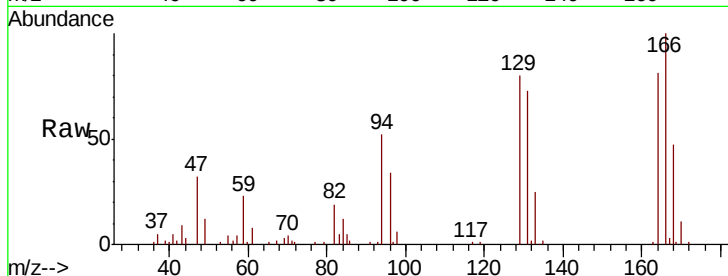
Ion Ratio Lower Upper

164 100

129 98.5 71.3 132.5

131 89.8 68.3 126.8

166 123.7 90.8 168.6

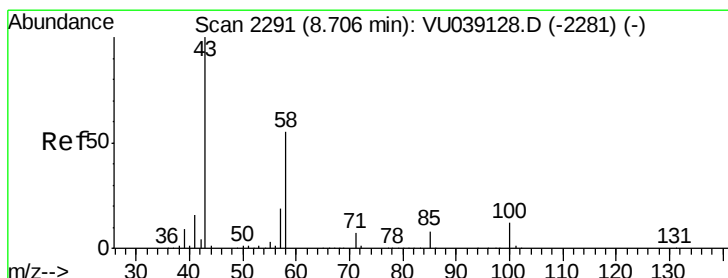
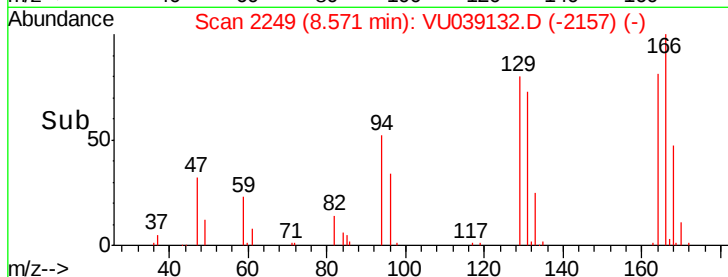
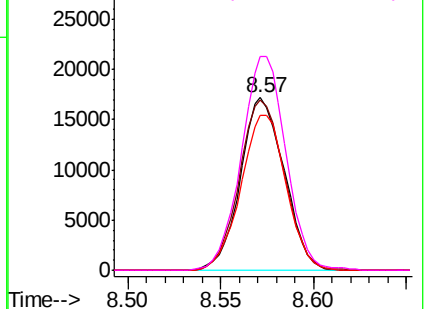


Abundance Ion 163.90 (163.60 to 164.60): V

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: 4.794 ug/L

RT: 8.66 min Scan# 2275

Delta R.T. -0.05 min

Lab File: VU039132.D

Acq: 25 Jun 2020 23:09

Tgt Ion: 43 Resp: 59956

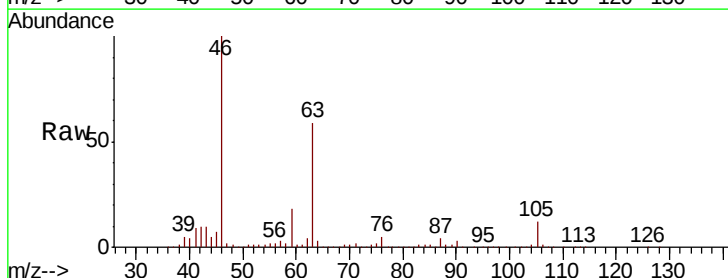
Ion Ratio Lower Upper

43 100

58 19.1 44.0 66.0#

57 39.4 15.0 22.6#

100 0.1 9.4 14.2#

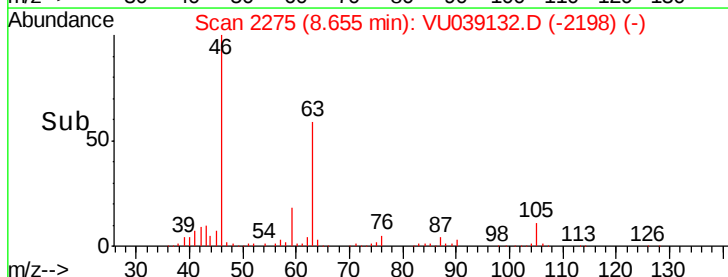
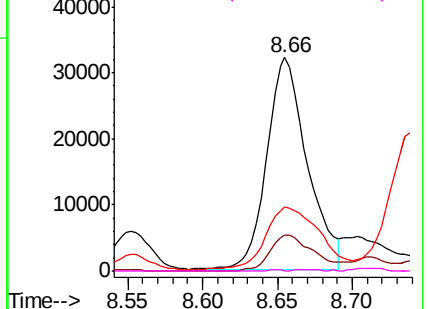


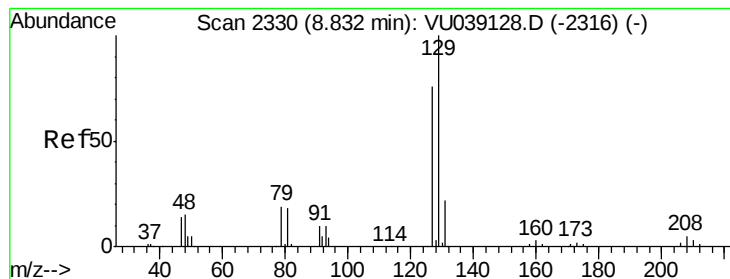
Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0

Ion 57.20 (56.90 to 57.90): VU0

Ion 100.15 (99.85 to 100.85): VU0





#49

Dibromochloromethane

Concen: 1.542 ug/L

RT: 8.57 min Scan# 2249

Delta R.T. -0.26 min

Lab File: VU039132.D

Acq: 25 Jun 2020 23:09

Instrument :

MSVOA_U

ClientSampled :

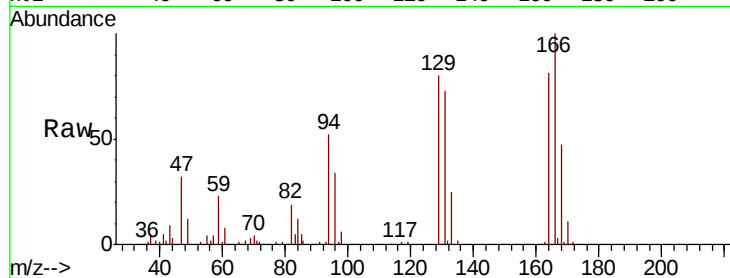
F9F01

Tot Ion:129 Resp: 28487

Ion Ratio Lower Upper

129 100

127 0.0 55.4 103.0#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V

8.57

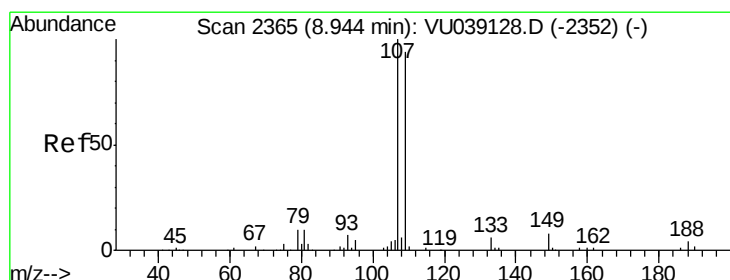
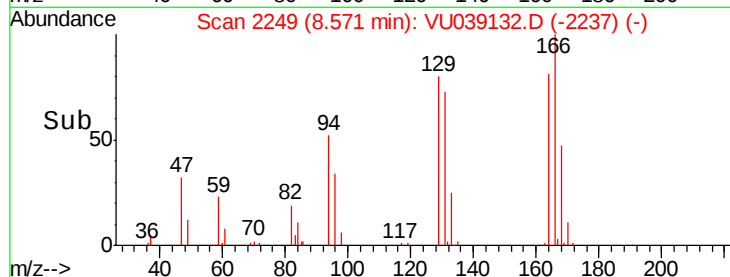
15000

10000

5000

0

Time--> 8.50 8.55 8.60 8.65



#50

1,2-Dibromoethane

Concen: 0.111 ug/L

RT: 8.96 min Scan# 2371

Delta R.T. 0.02 min

Lab File: VU039132.D

Acq: 25 Jun 2020 23:09

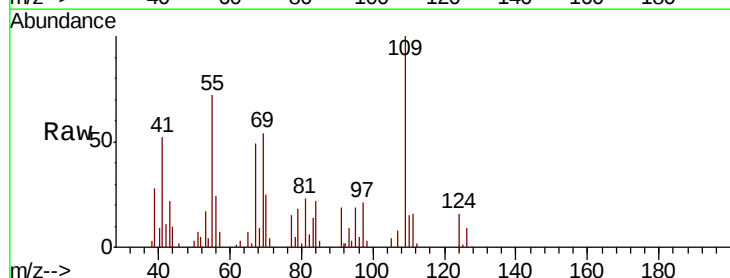
Tgt Ion:107 Resp: 1787

Ion Ratio Lower Upper

107 100

109 1186.9 64.8 120.4#

188 0.0 2.4 3.6#



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

8.96

10000

8000

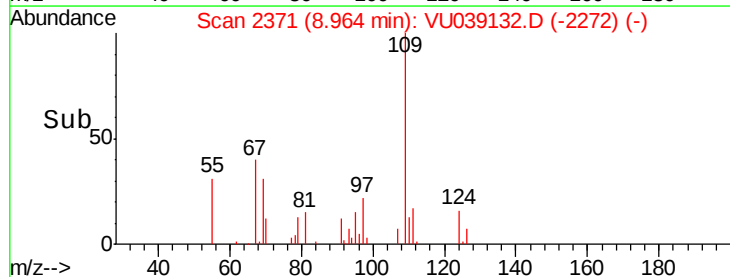
6000

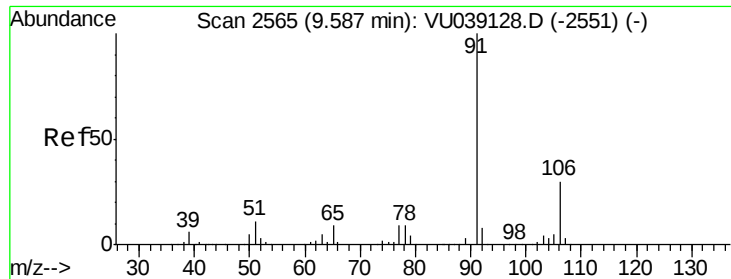
4000

2000

0

Time--> 8.90 8.95 9.00





#52

Ethylbenzene

Concen: 0.168 ug/L

RT: 9.59 min Scan# 2565

Delta R.T. 0.00 min

Lab File: VU039132.D

Acq: 25 Jun 2020 23:09

Instrument :

MSVOA_U

ClientSampleId :

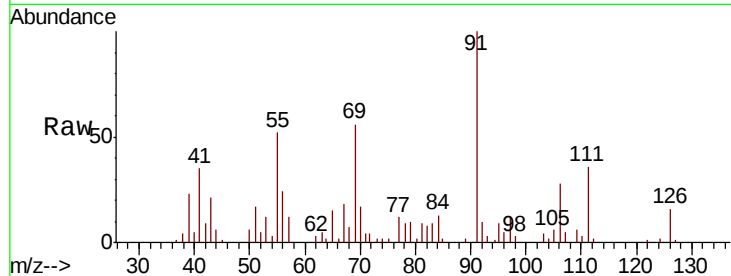
F9F01

Tot Ion: 91 Resp: 14786

Ion Ratio Lower Upper

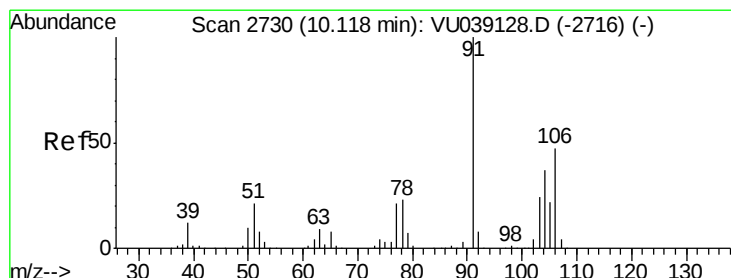
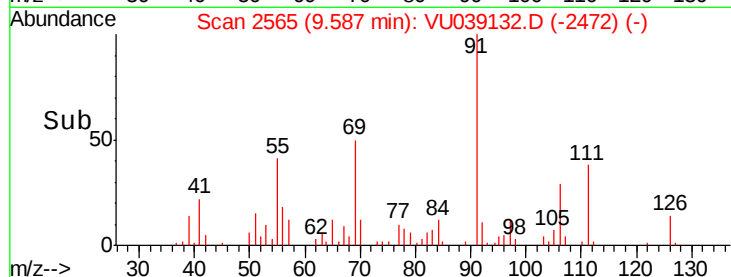
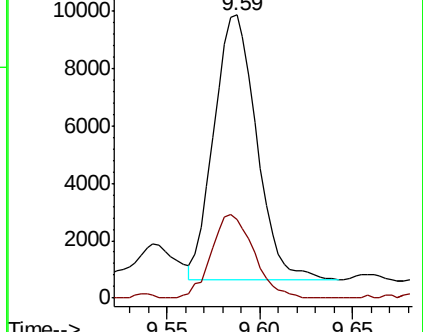
91 100

106 27.7 21.3 39.6



Abundance Ion 91.15 (90.85 to 91.85): VU039128.D (-2551) (-)

Ion 106.15 (105.85 to 106.85): VU039128.D (-2551) (-)



#54

o-Xylene

Concen: 0.329 ug/L

RT: 10.11 min Scan# 2729

Delta R.T. -0.00 min

Lab File: VU039132.D

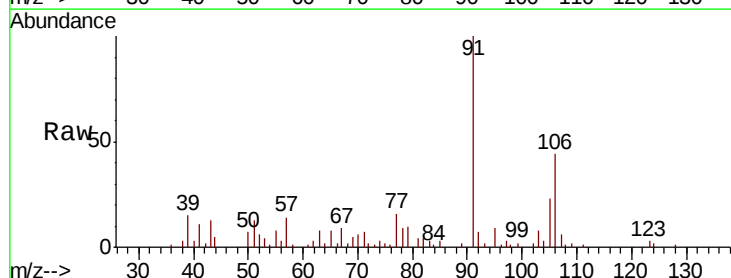
Acq: 25 Jun 2020 23:09

Tgt Ion: 106 Resp: 10237

Ion Ratio Lower Upper

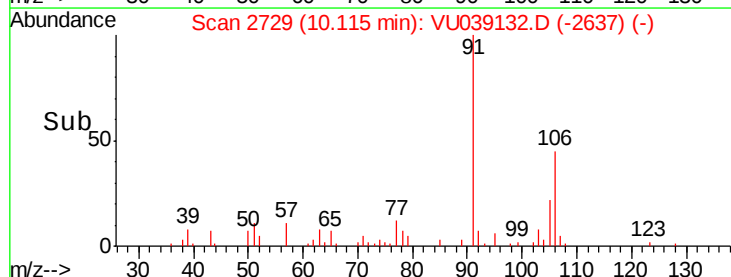
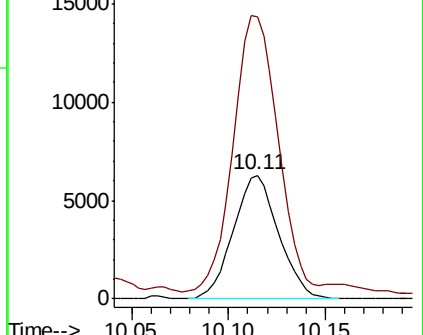
106 100

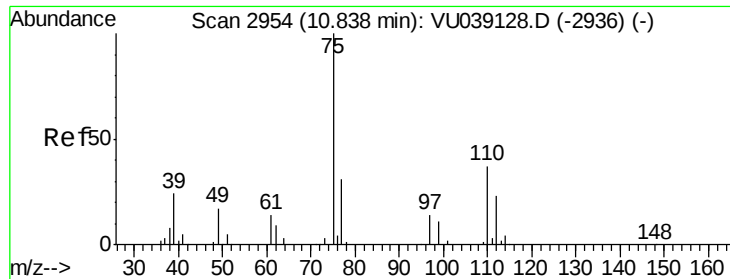
91 228.0 153.5 285.1



Abundance Ion 106.15 (105.85 to 106.85): VU039128.D (-2716) (-)

Ion 91.15 (90.85 to 91.85): VU039128.D (-2716) (-)

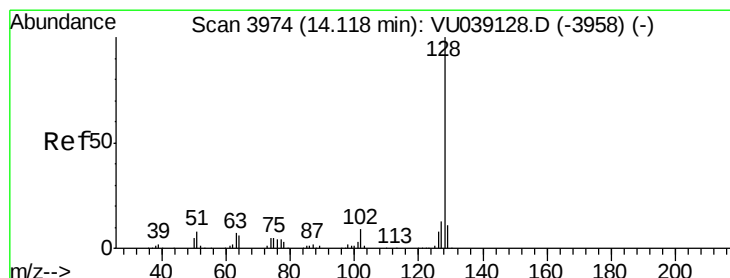
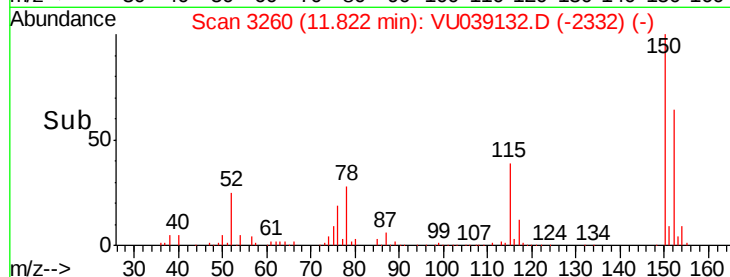
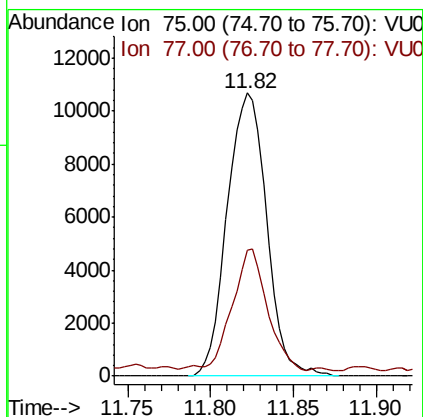
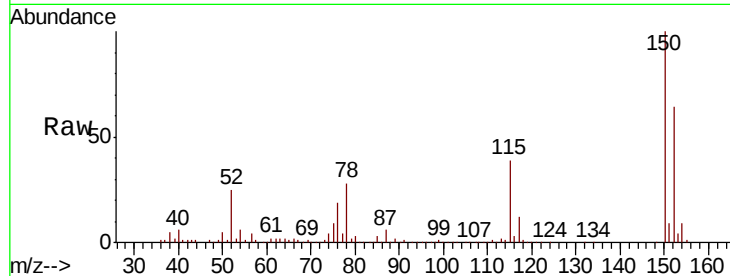




#59
 1,2,3-Trichloropropane
 Concen: 1.024 ug/L
 RT: 11.82 min Scan# 3260
 Delta R.T. 0.98 min
 Lab File: VU039132.D
 Acq: 25 Jun 2020 23:09

Instrument :
 MSVOA_U
 ClientSampleId :
 F9F01

Tot Ion: 75 Resp: 17638
 Ion Ratio Lower Upper
 75 100
 77 38.4 26.2 39.2



#69
 Naphthalene
 Concen: 0.403 ug/L
 RT: 14.11 min Scan# 3972
 Delta R.T. -0.01 min
 Lab File: VU039132.D
 Acq: 25 Jun 2020 23:09

Tgt Ion: 128 Resp: 21298
 Ion Ratio Lower Upper
 128 100
 129 0.0 8.9 13.3#
 127 7.1 10.8 16.2#

