

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU072120\
 Data File : VU039600.D
 Acq On : 21 Jul 2020 16:33
 Operator : SY/MD
 Sample : L3348-07
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jul 22 02:06:07 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR072120WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Jul 22 02:01:33 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.27	114	112417	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	104390	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	48205	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	33052	6.34	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	126.80%
7) Chloroethane-d5	1.92	69	27982	4.91	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	98.20%
11) 1,1-Dichloroethene-d2	2.58	63	54069	4.61	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	92.20%
20) 2-Butanone-d5	4.66	46	126896	53.91	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	107.82%
24) Chloroform-d	5.09	84	68728	5.19	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	103.80%
26) 1,2-Dichloroethane-d4	5.72	65	44549	5.10	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	102.00%
32) Benzene-d6	5.75	84	136080	5.42	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	108.40%
36) 1,2-Dichloropropane-d6	6.70	67	43501	5.27	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	105.40%
41) Toluene-d8	7.91	98	122751	5.16	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	103.20%
43) trans-1,3-Dichloropropene-	8.19	79	17813	4.96	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	99.20%
46) 2-Hexanone-d5	8.64	63	94989	54.09	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	108.18%
57) 1,1,2,2-Tetrachloroethane-	10.76	84	38255	4.99	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	99.80%
64) 1,2-Dichlorobenzene-d4	12.19	152	45166	5.21	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	104.20%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
12) 1,1-Dichloroethene	2.58	96	393	0.074	ug/L #	1
13) Acetone	2.68	43	24969	19.063	ug/L	67
14) Carbon disulfide	2.81	76	5358	0.335	ug/L	100
15) Methyl Acetate	2.98	43	3716	1.161	ug/L #	67
16) Methylene chloride	3.07	84	4968	0.647	ug/L	96
21) 2-Butanone	4.83	43	2603304	1147.373	ug/L #	51
25) Chloroform	5.11	83	3991	0.289	ug/L	99
33) Benzene	5.79	78	12525	0.499	ug/L	100
35) Methylcyclohexane	6.75	83	1868	0.184	ug/L #	15
37) 1,2-Dichloropropane	6.71	63	5385	0.771	ug/L #	90
42) Toluene	7.98	91	17361	0.632	ug/L	99
45) 1,1,2-Trichloroethane	8.25	97	3485	0.658	ug/L #	23
47) Tetrachloroethene	8.56	164	7109	1.504	ug/L	90
48) 2-Hexanone	8.69	43	4000	0.992	ug/L #	88
49) Dibromochloromethane	8.56	129	7217	1.120	ug/L #	11
52) Ethylbenzene	9.57	91	3586	0.115	ug/L	100
53) m,p-Xylene	9.70	106	1990	0.171	ug/L	79

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Quant Title : TRACE VOA SOM01.0
QLast Update : Wed Jul 22 02:01:33 2020
Response via : Initial Calibration

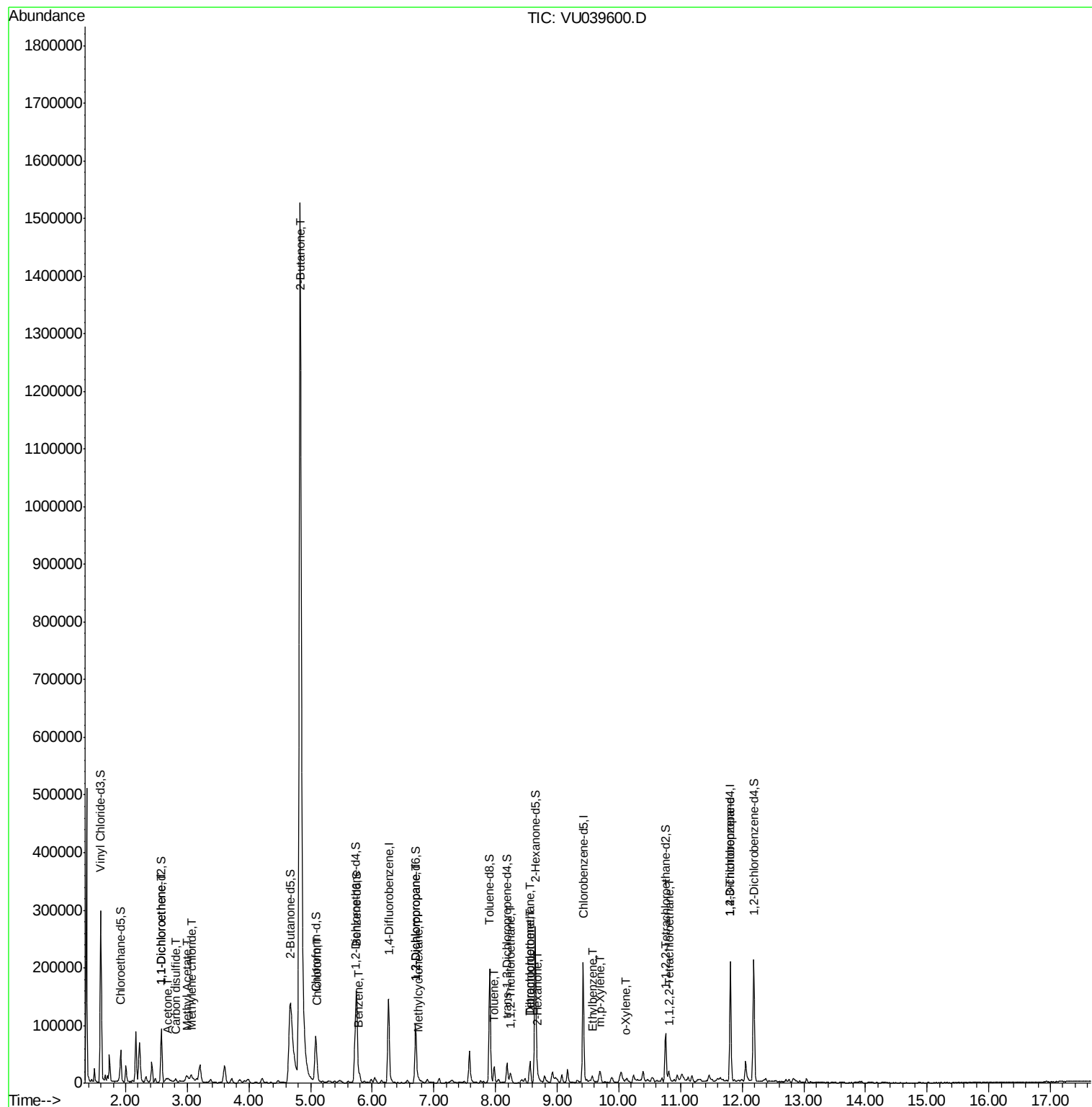
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) o-Xylene	10.10	106	745	0.065	ug/L	79
58) 1,1,2,2-Tetrachloroethane	10.81	83	2168	0.316	ug/L #	26
59) 1,2,3-Trichloropropane	11.81	75	7229	1.412	ug/L #	86

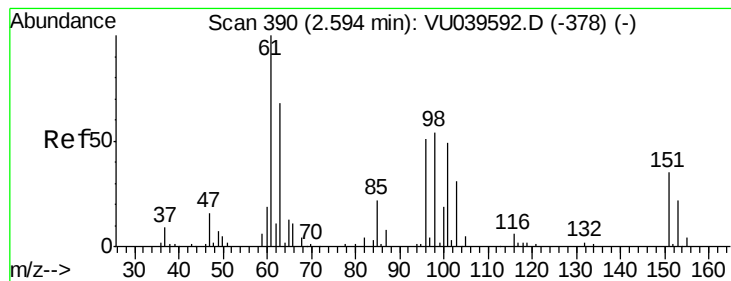
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#12

1,1-Dichloroethene

Concen: 0.074 ug/L

RT: 2.58 min Scan# 386

Delta R.T. -0.01 min

Lab File: VU039600.D

Acq: 21 Jul 2020 16:33

Instrument :

MSVOA_U

ClientSampleId :

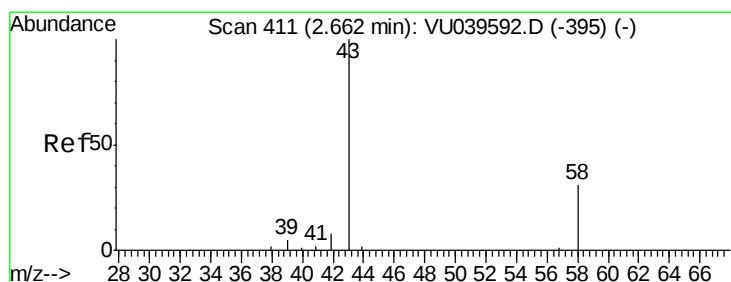
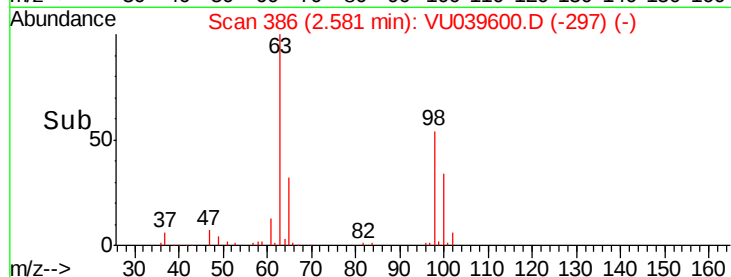
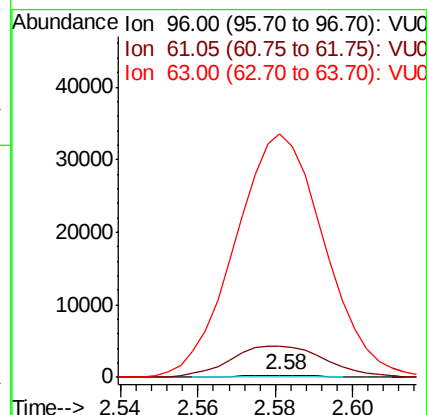
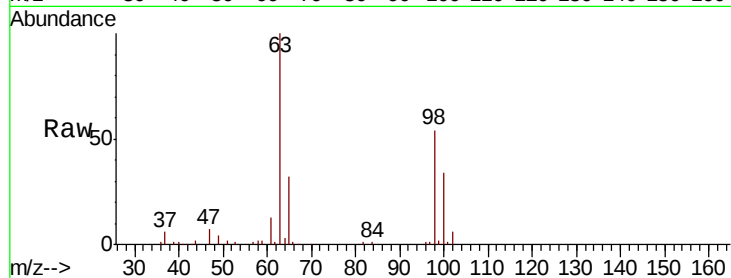
Tot Ion: 96 Resp: 393

Ion Ratio Lower Upper

96 100

61 1352.8 129.1 239.7#

63 10615.2 89.7 166.7#



#13

Acetone

Concen: 19.063 ug/L

RT: 2.68 min Scan# 416

Delta R.T. 0.02 min

Lab File: VU039600.D

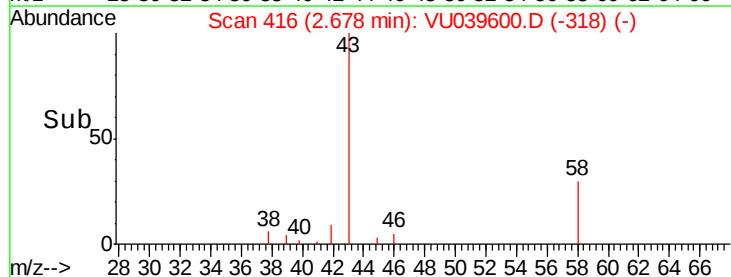
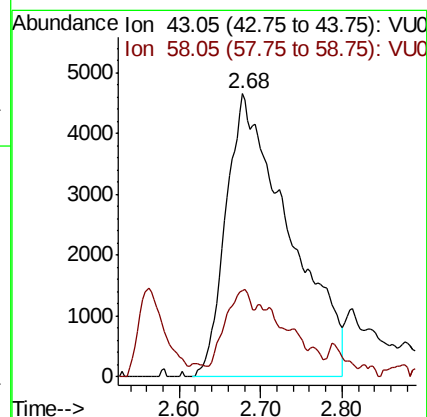
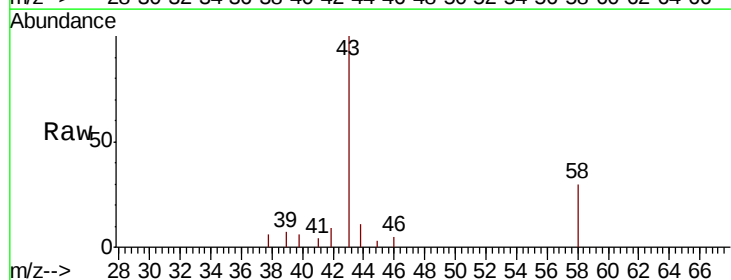
Acq: 21 Jul 2020 16:33

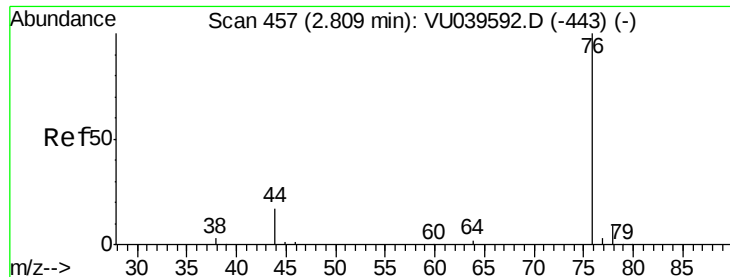
Tgt Ion: 43 Resp: 24969

Ion Ratio Lower Upper

43 100

58 11.6 0.0 59.0

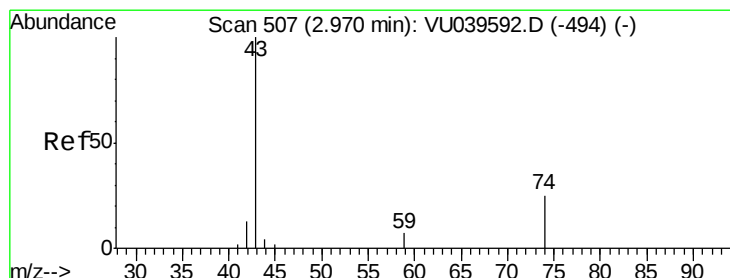
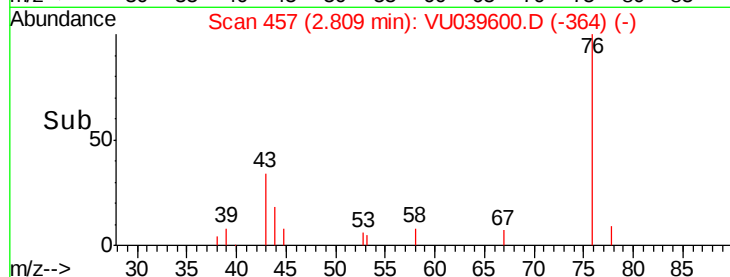
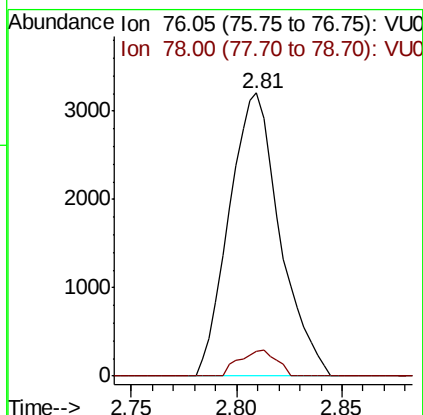
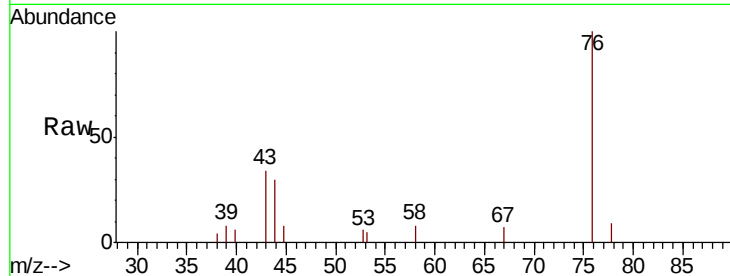




#14
Carbon disulfide
Concen: 0.335 ug/L
RT: 2.81 min Scan# 457
Delta R.T. -0.00 min
Lab File: VU039600.D
Acq: 21 Jul 2020 16:33

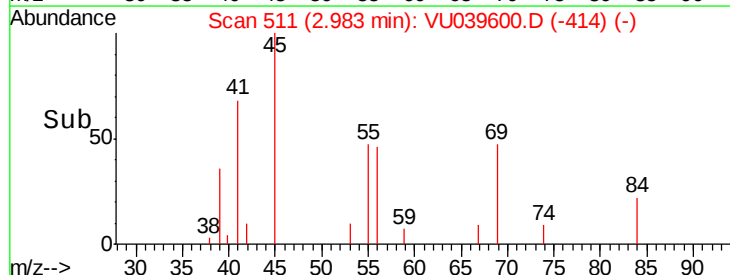
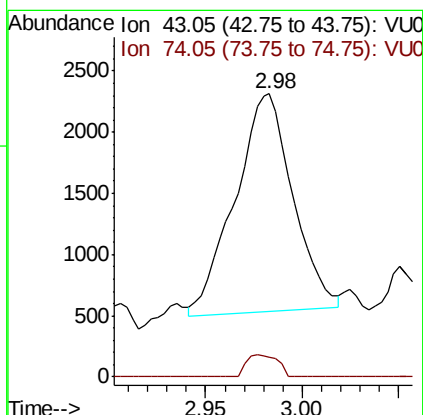
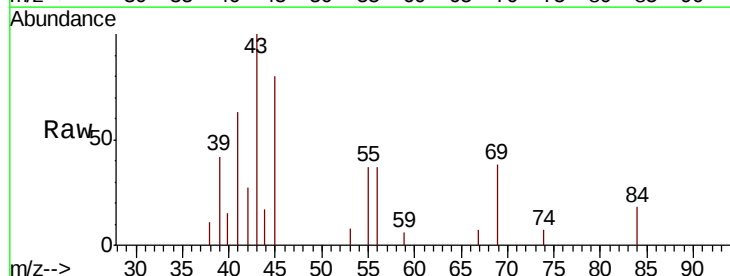
Instrument :
MSVOA_U
ClientSampleId :

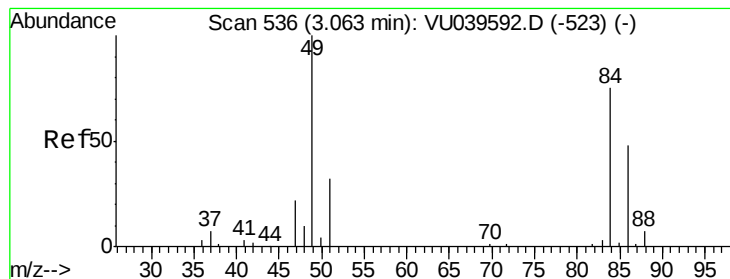
Tot Ion: 76 Resp: 5358
Ion Ratio Lower Upper
76 100
78 8.9 7.2 10.8



#15
Methyl Acetate
Concen: 1.161 ug/L
RT: 2.98 min Scan# 511
Delta R.T. 0.01 min
Lab File: VU039600.D
Acq: 21 Jul 2020 16:33

Tgt Ion: 43 Resp: 3716
Ion Ratio Lower Upper
43 100
74 5.5 16.6 24.8#





#16

Methvlene chloride

Concen: 0.647 ug/L

RT: 3.07 min Scan# 537

Delta R.T. 0.00 min

Lab File: VU039600.D

Acq: 21 Jul 2020 16:33

Instrument :

MSVOA_U

ClientSampled :

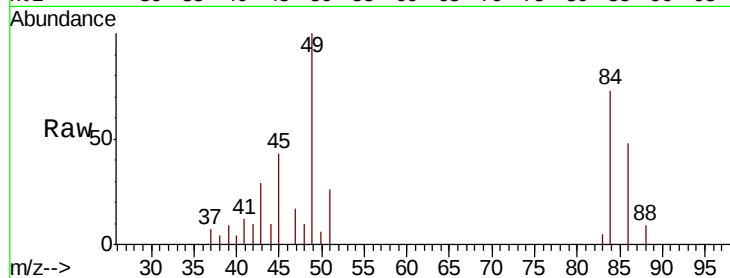
Tot Ion: 84 Resp: 4968

Ion Ratio Lower Upper

84 100

86 65.4 43.8 81.4

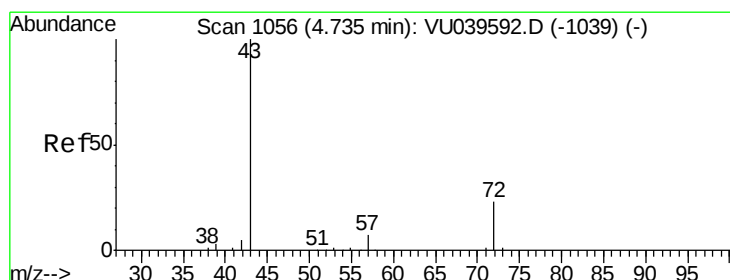
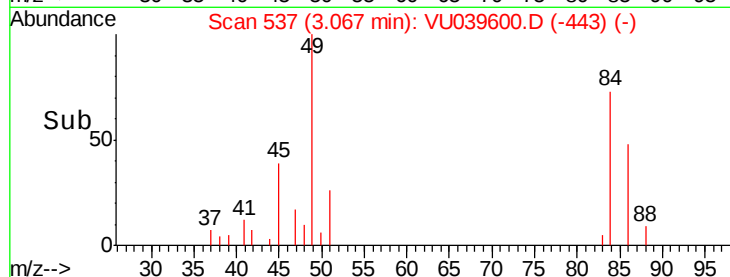
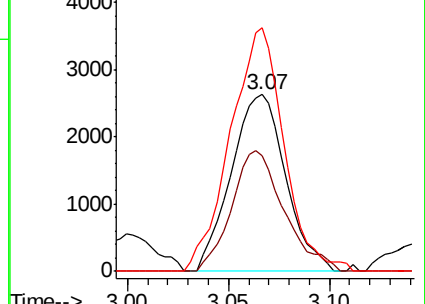
49 137.7 92.7 172.3



Abundance Ion 84.05 (83.75 to 84.75): VU039592.D (-523) (-)

Ion 86.00 (85.70 to 86.70): VU039592.D (-523) (-)

Ion 49.10 (48.80 to 49.80): VU039592.D (-523) (-)



#21

2-Butanone

Concen: 1147.373 ug/L

RT: 4.83 min Scan# 1086

Delta R.T. 0.10 min

Lab File: VU039600.D

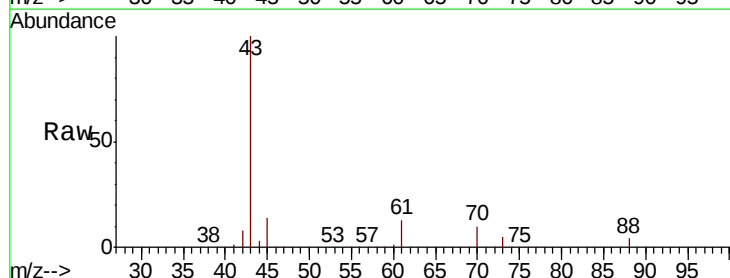
Acq: 21 Jul 2020 16:33

Tgt Ion: 43 Resp: 2603304

Ion Ratio Lower Upper

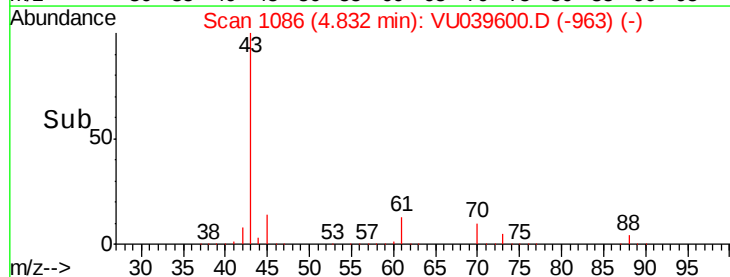
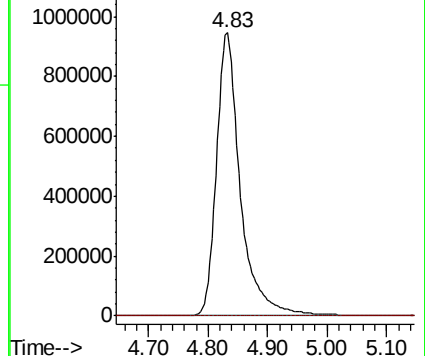
43 100

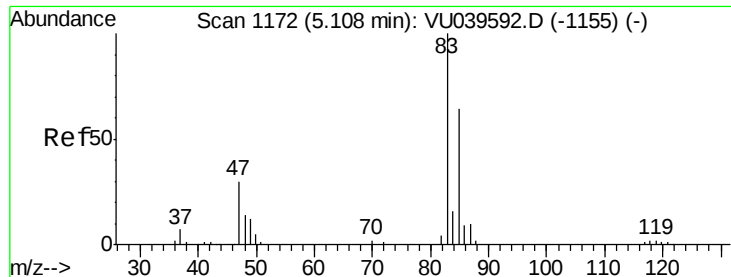
72 0.0 12.2 36.4#



Abundance Ion 43.05 (42.75 to 43.75): VU039592.D (-1039) (-)

Ion 72.10 (71.80 to 72.80): VU039592.D (-1039) (-)

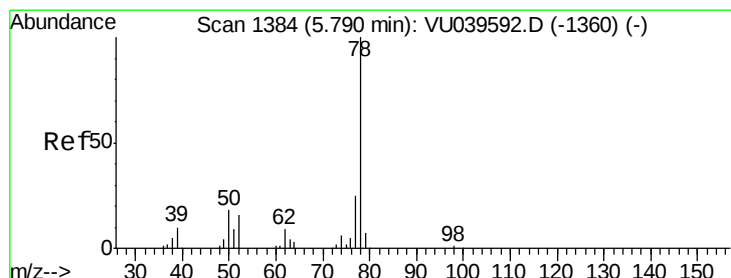
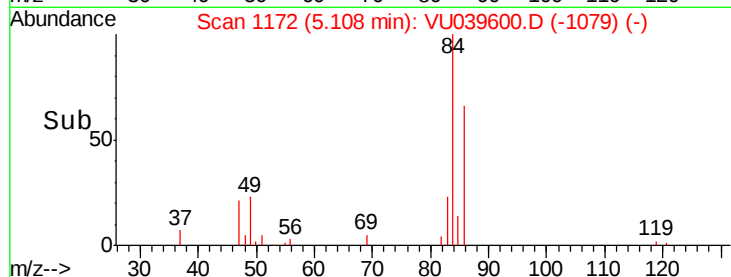
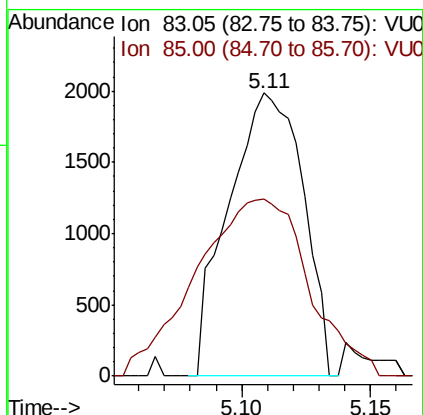
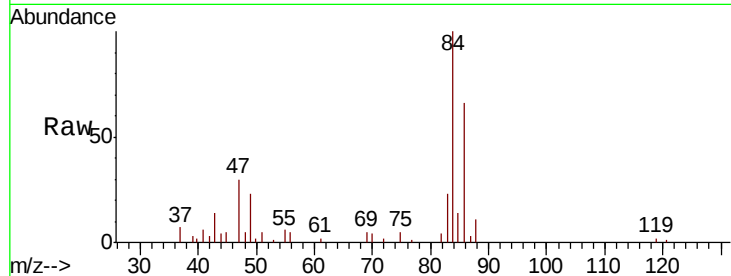




#25
Chloroform
Concen: 0.289 ug/L
RT: 5.11 min Scan# 1172
Delta R.T. -0.00 min
Lab File: VU039600.D
Acq: 21 Jul 2020 16:33

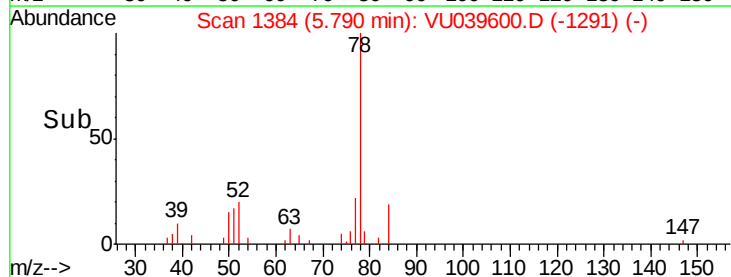
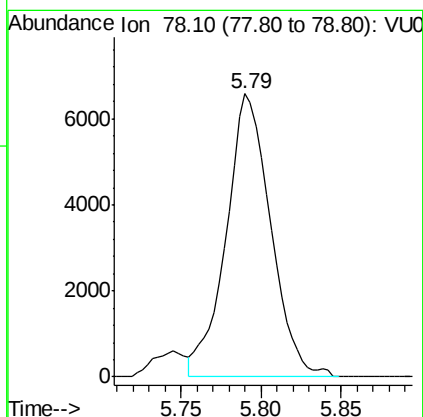
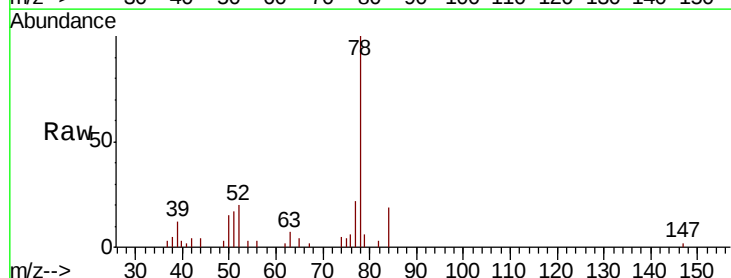
Instrument :
MSVOA_U
ClientSampleId :

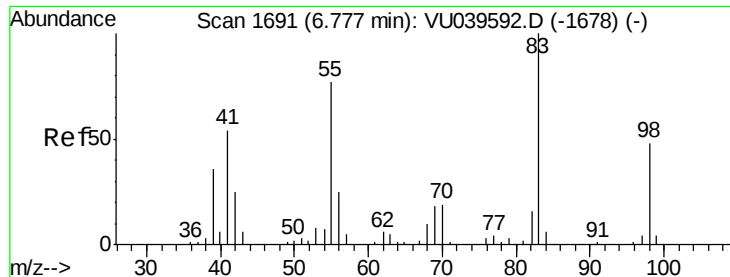
Tot Ion: 83 Resp: 3991
Ion Ratio Lower Upper
83 100
85 62.5 44.4 82.5



#33
Benzene
Concen: 0.499 ug/L
RT: 5.79 min Scan# 1384
Delta R.T. -0.00 min
Lab File: VU039600.D
Acq: 21 Jul 2020 16:33

Tgt Ion: 78 Resp: 12525





#35

Methylcyclohexane

Concen: 0.184 ug/L

RT: 6.75 min Scan# 1683

Delta R.T. -0.03 min

Lab File: VU039600.D

Acq: 21 Jul 2020 16:33

Instrument :

MSVOA_U

ClientSampleId :

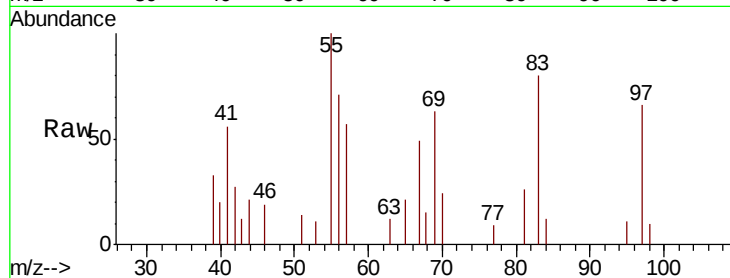
Tot Ion: 83 Resp: 1868

Ion Ratio Lower Upper

83 100

55 166.0 63.0 94.6#

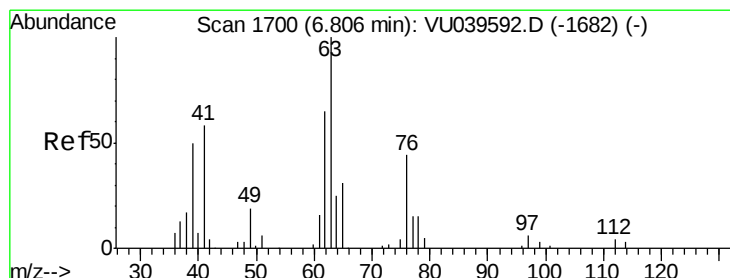
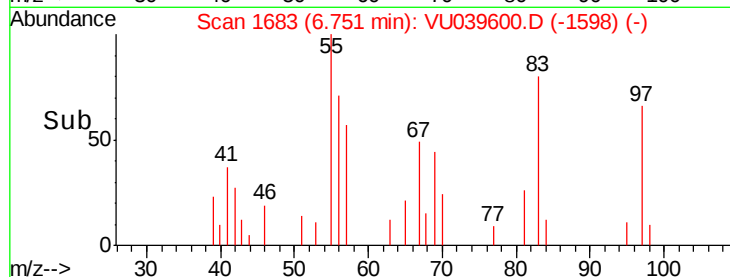
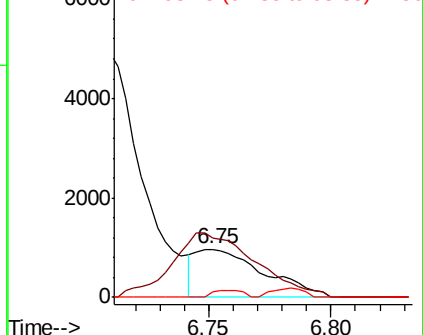
98 6.6 35.3 52.9#



Abundance Ion 83.15 (82.85 to 83.85): VU039592.D (-1678) (-)

Ion 55.10 (54.80 to 55.80): VU039592.D (-1678) (-)

Ion 98.15 (97.85 to 98.85): VU039592.D (-1678) (-)



#37

1,2-Dichloropropane

Concen: 0.771 ug/L

RT: 6.71 min Scan# 1669

Delta R.T. -0.10 min

Lab File: VU039600.D

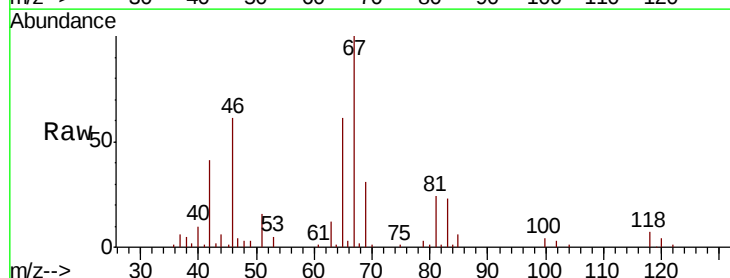
Acq: 21 Jul 2020 16:33

Tgt Ion: 63 Resp: 5385

Ion Ratio Lower Upper

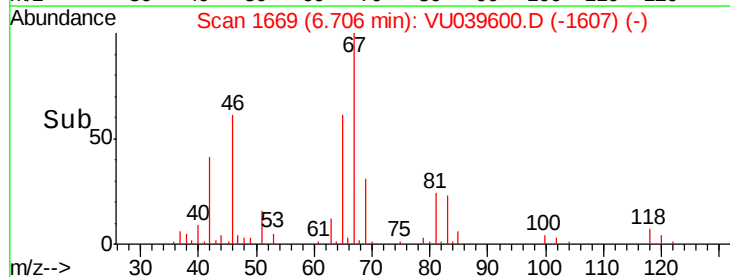
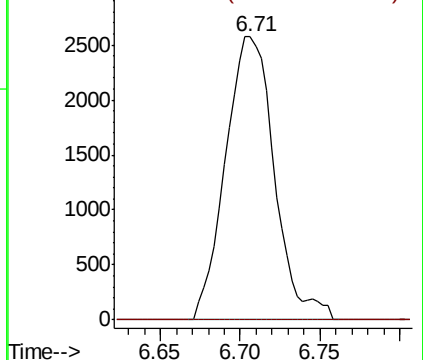
63 100

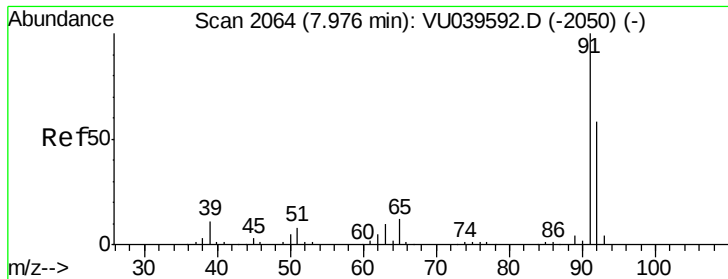
112 0.0 2.7 4.1#



Abundance Ion 63.10 (62.80 to 63.80): VU039592.D (-1682) (-)

Ion 112.10 (111.80 to 112.80): VU039592.D (-1682) (-)





#42

Toluene

Concen: 0.632 ug/L

RT: 7.98 min Scan# 2064

Delta R.T. -0.00 min

Lab File: VU039600.D

Acq: 21 Jul 2020 16:33

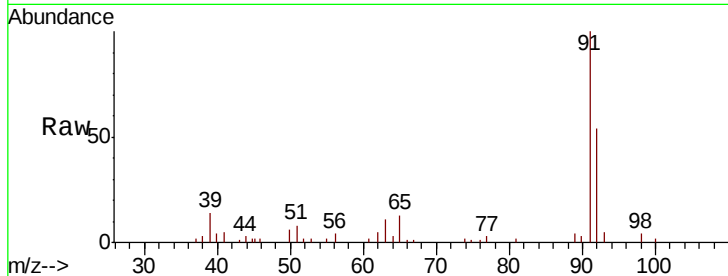
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 91 Resp: 17361

Ion Ratio Lower Upper

91 100

92 54.5 38.6 71.6



Abundance Ion 91.15 (90.85 to 91.85): VU039592.D (-2050) (-)

Ion 92.15 (91.85 to 92.85): VU039592.D (-2050) (-)

7.98

10000

8000

6000

4000

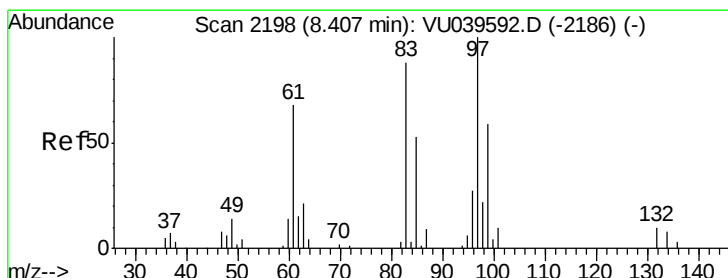
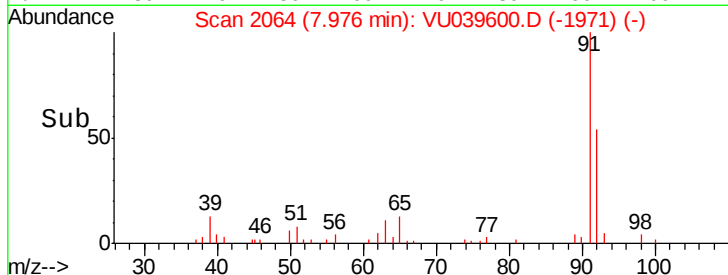
2000

0

7.95

8.00

Time-->



#45

1,1,2-Trichloroethane

Concen: 0.658 ug/L

RT: 8.25 min Scan# 2150

Delta R.T. -0.15 min

Lab File: VU039600.D

Acq: 21 Jul 2020 16:33

Tgt Ion: 97 Resp: 3485

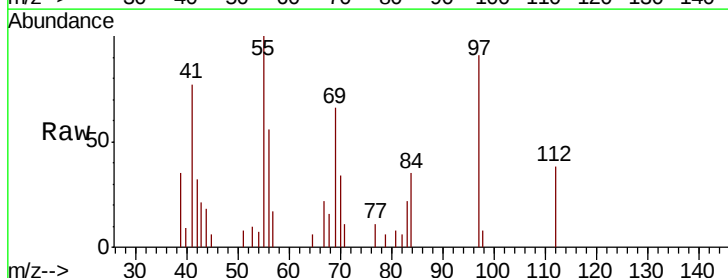
Ion Ratio Lower Upper

97 100

99 0.0 45.2 84.0#

83 24.1 64.9 120.5#

85 0.0 41.4 77.0#



Abundance Ion 96.95 (96.65 to 97.65): VU039592.D (-2186) (-)

Ion 99.05 (98.75 to 99.75): VU039592.D (-2186) (-)

Ion 82.95 (82.65 to 83.65): VU039592.D (-2186) (-)

Ion 85.00 (84.70 to 85.70): VU039592.D (-2186) (-)

8.25

2500

2000

1500

1000

500

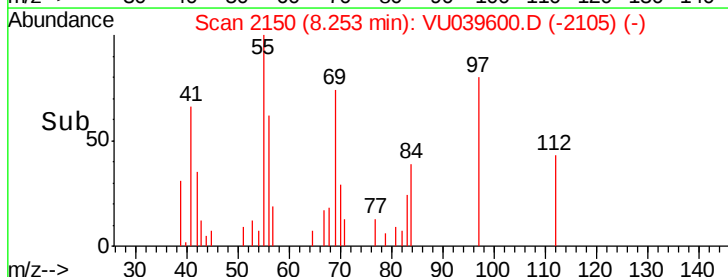
0

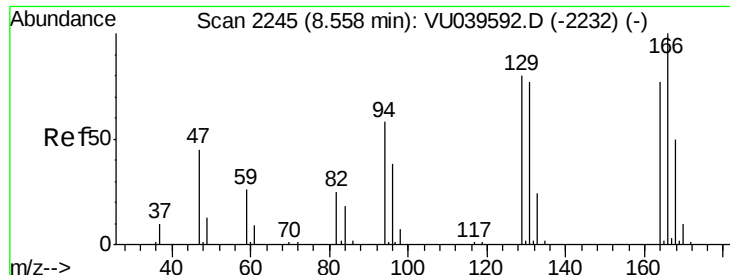
8.20

8.25

8.30

Time-->





#47

Tetrachloroethene

Concen: 1.504 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. -0.00 min

Lab File: VU039600.D

Acq: 21 Jul 2020 16:33

Instrument :
MSVOA_U
ClientSampled :

Tot Ion:164 Resp: 7109

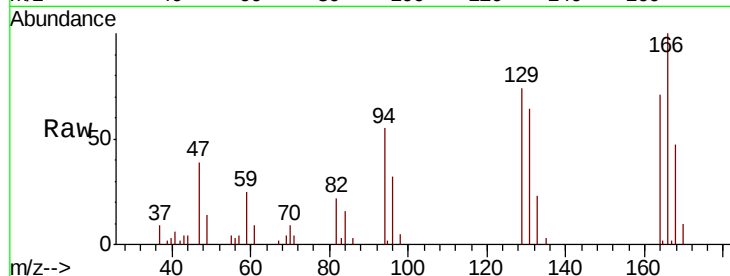
Ion Ratio Lower Upper

164 100

129 104.5 67.9 126.1

131 91.0 64.7 120.1

166 141.8 85.1 158.1

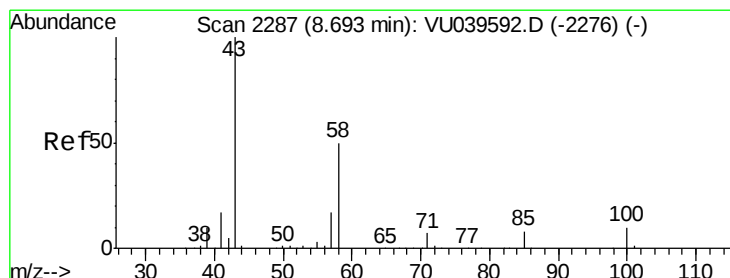
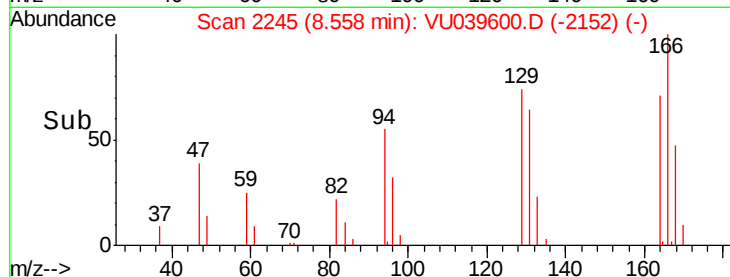
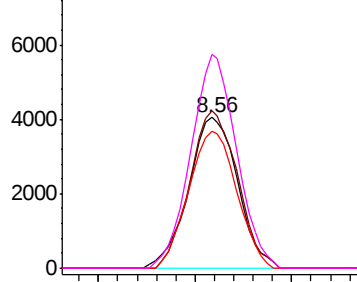


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V



#48

2-Hexanone

Concen: 0.992 ug/L

RT: 8.69 min Scan# 2286

Delta R.T. -0.00 min

Lab File: VU039600.D

Acq: 21 Jul 2020 16:33

Tgt Ion: 43 Resp: 4000

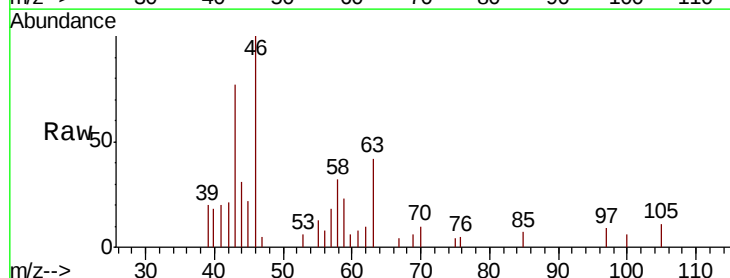
Ion Ratio Lower Upper

43 100

58 52.3 40.9 61.3

57 0.0 14.6 21.8#

100 6.5 7.9 11.9#

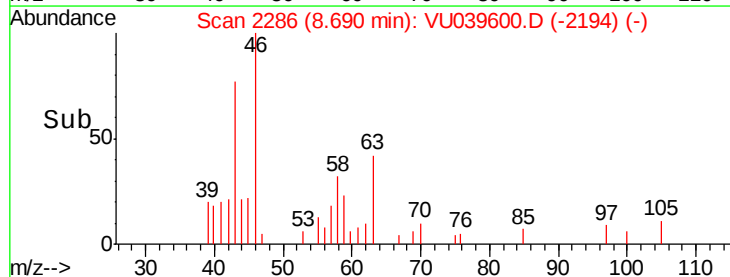
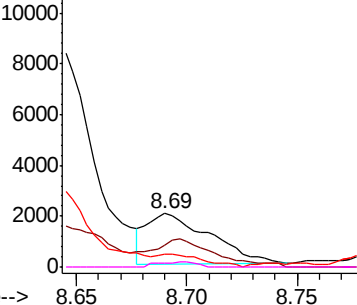


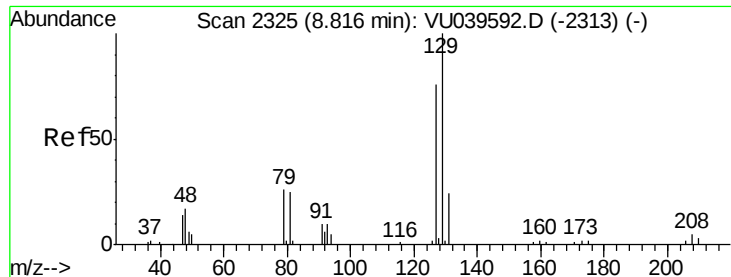
Abundance Ion 43.05 (42.75 to 43.75): VU0

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

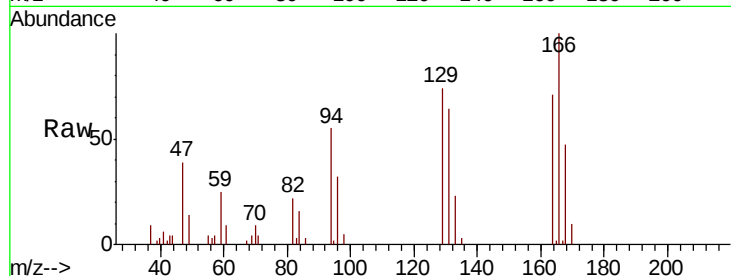




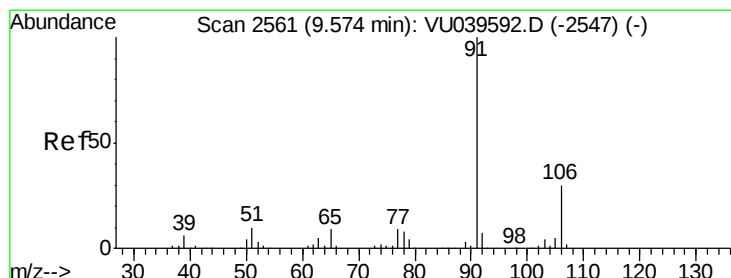
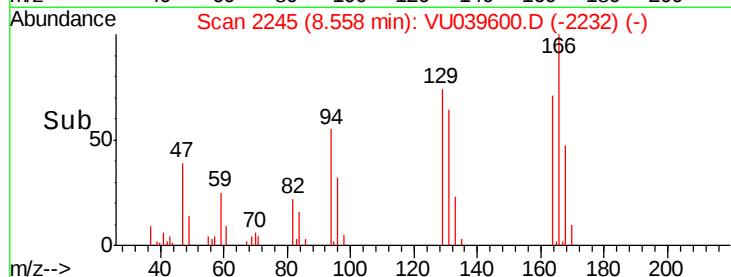
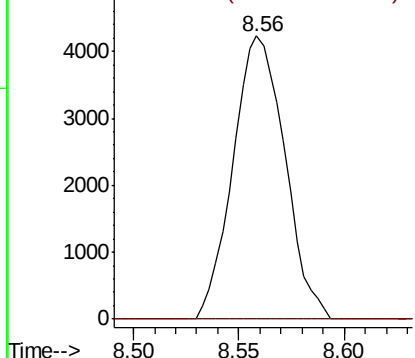
#49
Dibromochloromethane
Concen: 1.120 ug/L
RT: 8.56 min Scan# 2245
Delta R.T. -0.26 min
Lab File: VU039600.D
Acq: 21 Jul 2020 16:33

Instrument :
MSVOA_U
ClientSampled :

Tot Ion:129 Resp: 7217
Ion Ratio Lower Upper
129 100
127 0.0 53.8 99.8#

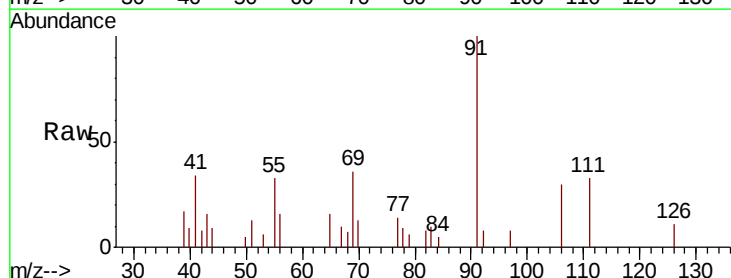


Abundance Ion 128.95 (128.65 to 129.65): V
Ion 126.90 (126.60 to 127.60): V

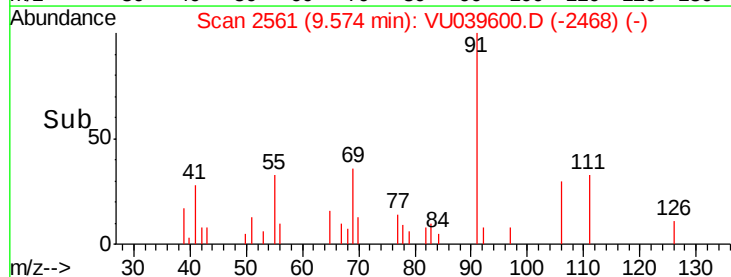
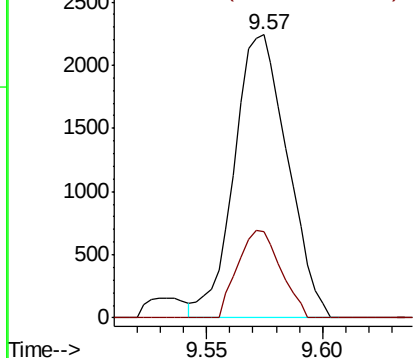


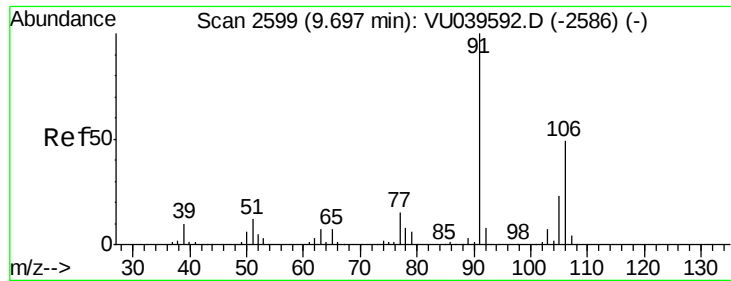
#52
Ethylbenzene
Concen: 0.115 ug/L
RT: 9.57 min Scan# 2561
Delta R.T. -0.00 min
Lab File: VU039600.D
Acq: 21 Jul 2020 16:33

Tgt Ion: 91 Resp: 3586
Ion Ratio Lower Upper
91 100
106 30.4 21.3 39.6



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





#53

m,p-Xylene

Concen: 0.171 ug/L

RT: 9.70 min Scan# 2599

Delta R.T. -0.00 min

Lab File: VU039600.D

Acq: 21 Jul 2020 16:33

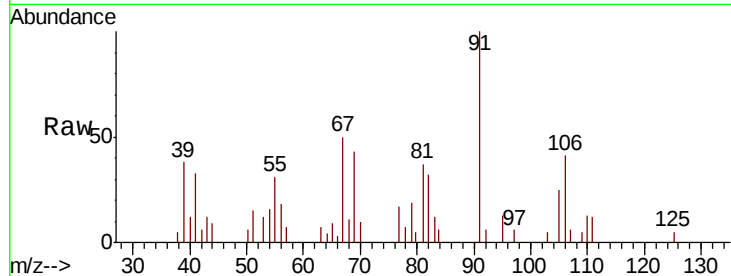
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:106 Resp: 1990

Ion Ratio Lower Upper

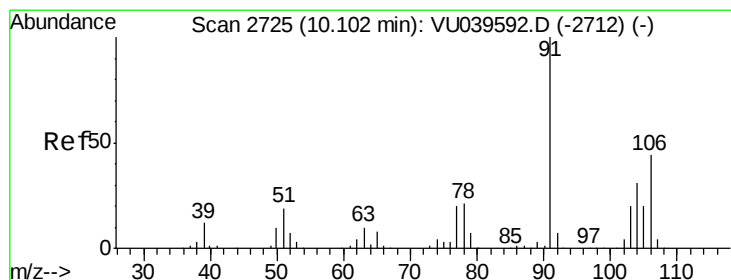
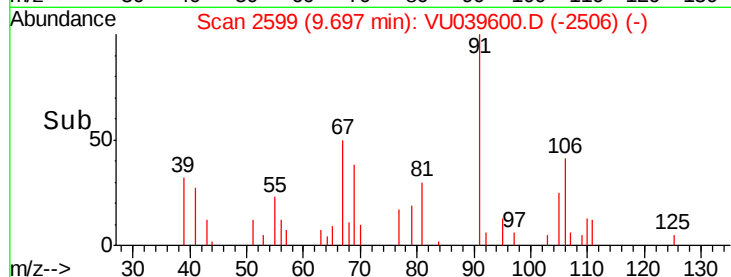
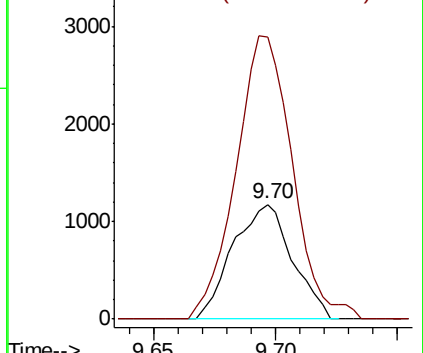
106 100

91 246.0 149.3 277.3



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#54

o-Xylene

Concen: 0.065 ug/L

RT: 10.10 min Scan# 2724

Delta R.T. -0.00 min

Lab File: VU039600.D

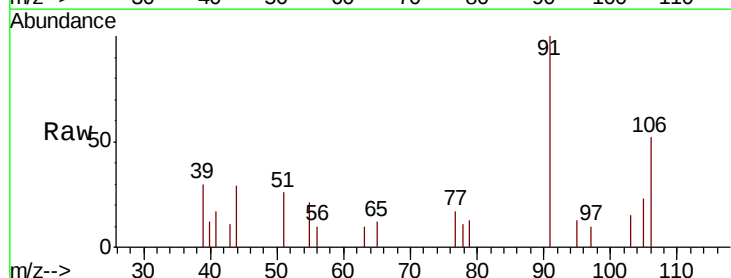
Acq: 21 Jul 2020 16:33

Tgt Ion:106 Resp: 745

Ion Ratio Lower Upper

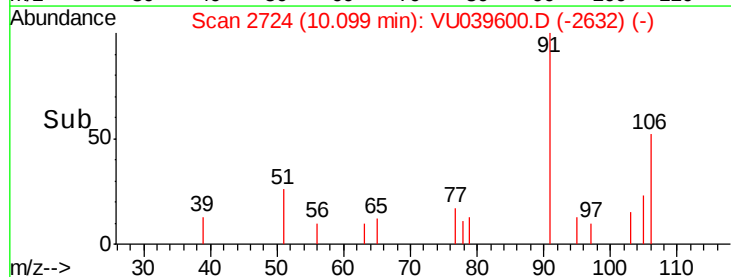
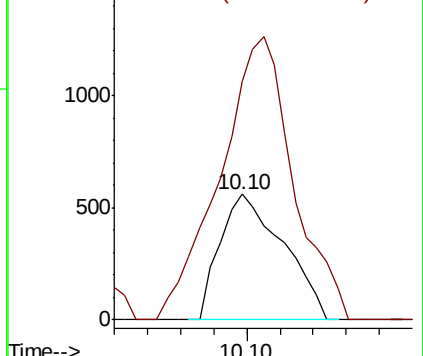
106 100

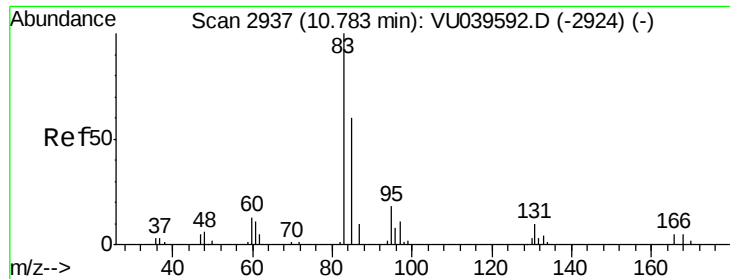
91 190.5 157.4 292.4



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0





#58

1,1,2,2-Tetrachloroethane

Concen: 0.316 ug/L

RT: 10.81 min Scan# 2944

Delta R.T. 0.02 min

Lab File: VU039600.D

Acq: 21 Jul 2020 16:33

Instrument :

MSVOA_U

ClientSampleId :

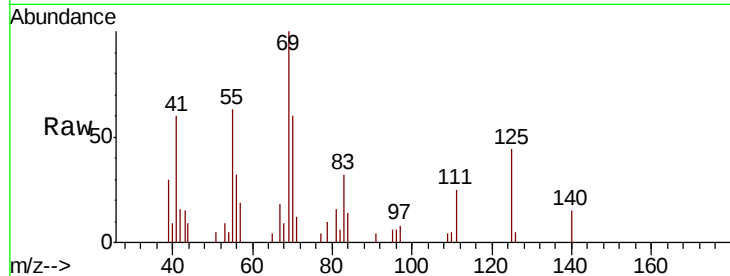
Tot Ion: 83 Resp: 2168

Ion Ratio Lower Upper

83 100

85 0.0 43.5 80.9#

131 0.0 7.4 11.0#

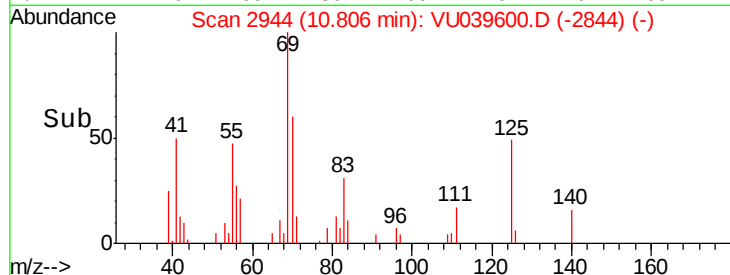


Abundance Ion 82.95 (82.65 to 83.65): VU039592.D (-2924) (-)

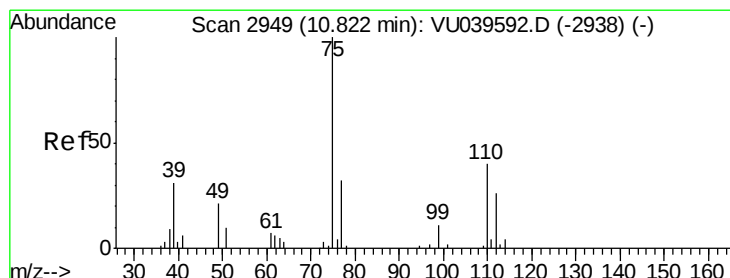
Ion 85.00 (84.70 to 85.70): VU039592.D (-2924) (-)

Ion 130.95 (130.65 to 131.65): VU039592.D (-2924) (-)

Time-->



Time-->



#59

1,2,3-Trichloropropane

Concen: 1.412 ug/L

RT: 11.81 min Scan# 3256

Delta R.T. 0.99 min

Lab File: VU039600.D

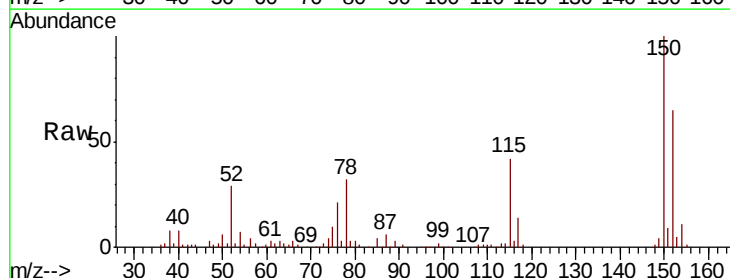
Acq: 21 Jul 2020 16:33

Tgt Ion: 75 Resp: 7229

Ion Ratio Lower Upper

75 100

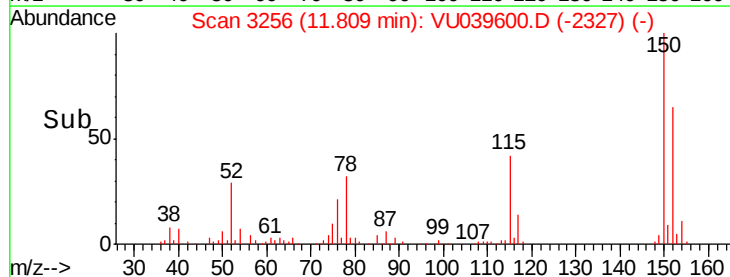
77 39.7 25.5 38.3#



Abundance Ion 75.00 (74.70 to 75.70): VU039592.D (-2938) (-)

Ion 77.00 (76.70 to 77.70): VU039592.D (-2938) (-)

Time-->



Time-->