

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U122220\
 Data File : VU041737.D
 Acq On : 22 Dec 2020 13:27
 Operator : SY/MD
 Sample : L5185-05
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BG4S3

Quant Time: Dec 23 04:07:45 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR121220WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Dec 23 04:05:15 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	148749	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	141833	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	64983	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	33751	2.90	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	58.00%
7) Chloroethane-d5	1.92	69	39647	4.40	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	88.00%
11) 1,1-Dichloroethene-d2	2.58	63	56985	2.66	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	53.20%#
20) 2-Butanone-d5	4.65	46	160187	47.95	ug/L	-0.01
Spiked Amount	50.000	Range	40 - 130	Recovery	=	95.90%
24) Chloroform-d	5.08	84	87127	4.37	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	87.40%
26) 1,2-Dichloroethane-d4	5.72	65	50976	4.51	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	90.20%
32) Benzene-d6	5.74	84	167365	4.12	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	82.40%
36) 1,2-Dichloropropane-d6	6.70	67	55944	4.39	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	87.80%
41) Toluene-d8	7.90	98	141537	3.86	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	77.20%
43) trans-1,3-Dichloropropene-	8.19	79	21711	3.79	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	75.80%
46) 2-Hexanone-d5	8.64	63	143406	45.82	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	91.64%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	53145	4.59	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	91.80%
64) 1,2-Dichlorobenzene-d4	12.19	152	55275	4.78	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	95.60%

Target Compounds

					Ovalue
3) Chloromethane	1.53	50	637	0.052	ug/L 87
10) 1,1,2-Trichloro-1,2,2-trif	2.58	101	484	0.047	ug/L # 22
13) Acetone	2.66	43	6617	3.114	ug/L 93
16) Methylene chloride	3.06	84	1542	0.128	ug/L 80
21) 2-Butanone	4.83	43	20869	6.030	ug/L # 46
33) Benzene	5.79	78	2391	0.053	ug/L 100
35) Methylcyclohexane	6.70	83	12305	0.668	ug/L # 19
37) 1,2-Dichloropropane	6.70	63	5662	0.488	ug/L # 88
42) Toluene	7.98	91	20990	0.448	ug/L 94
44) trans-1,3-Dichloropropene	8.18	75	933	0.061	ug/L 90
47) Tetrachloroethene	8.55	164	754	0.094	ug/L 80
49) Dibromochloromethane	8.56	129	765	0.078	ug/L # 10
52) Ethylbenzene	9.57	91	2907	0.058	ug/L 99
53) m,p-Xylene	9.69	106	3839	0.206	ug/L 92
54) o-Xylene	10.10	106	1787	0.098	ug/L 97
55) Styrene	10.11	104	1398	0.044	ug/L 88
59) 1,2,3-Trichloropropane	11.81	75	7327	0.841	ug/L 93

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Quant Time: Dec 23 04:07:45 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR121220WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Wed Dec 23 04:05:15 2020
Response via : Initial Calibration

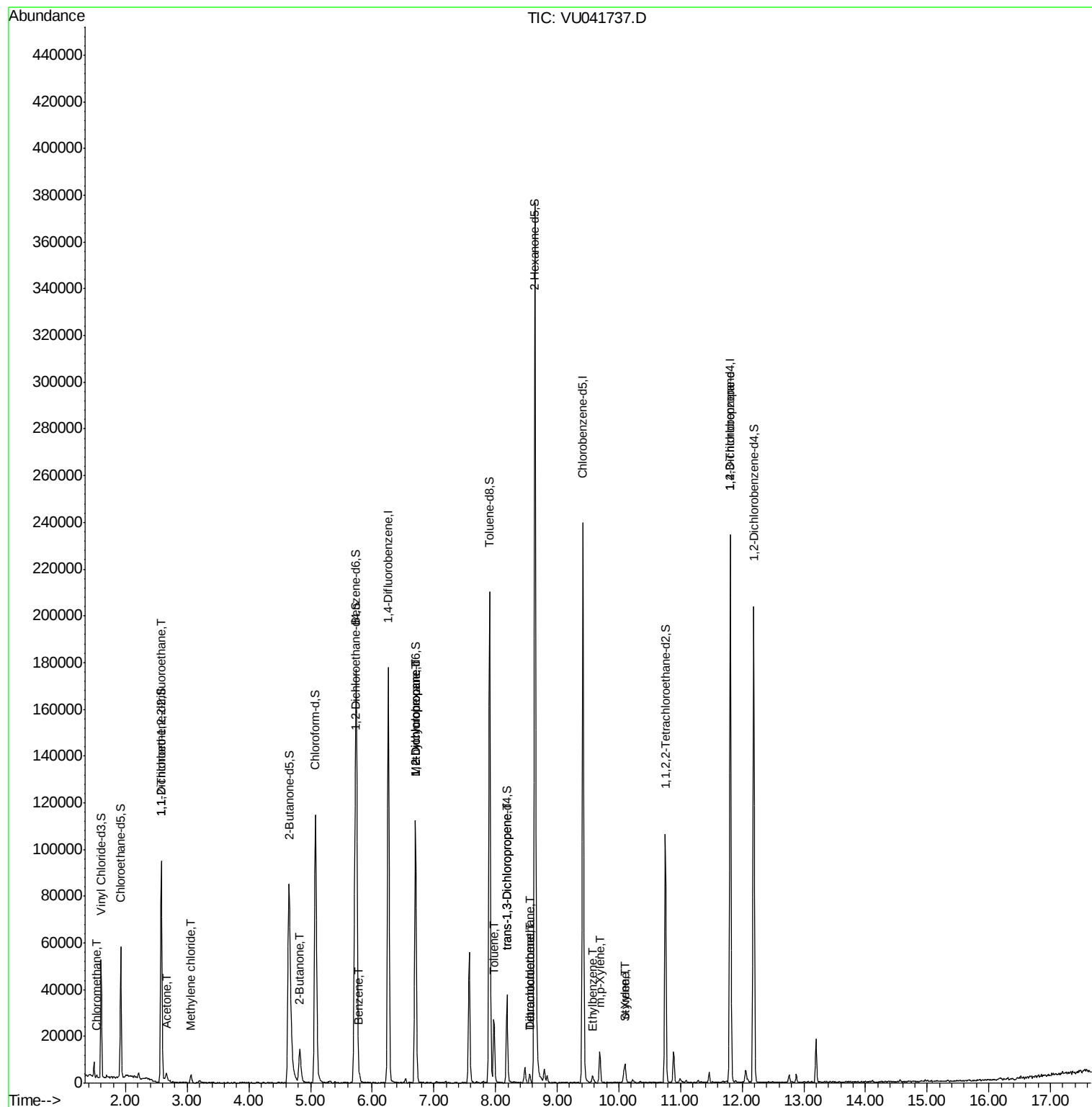
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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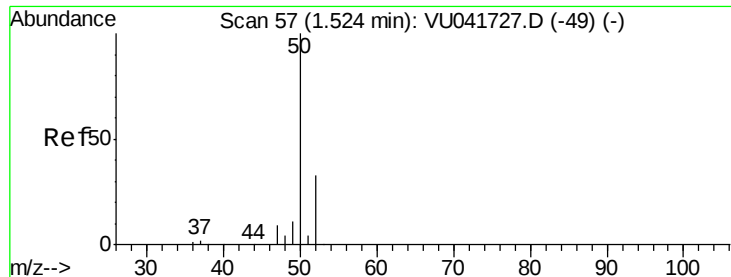
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#3

Chloromethane

Concen: 0.052 ug/L

RT: 1.53 min Scan# 58

Delta R.T. 0.00 min

Lab File: VU041737.D

Acq: 22 Dec 2020 13:27

Instrument :

MSVOA_U

ClientSampleId :

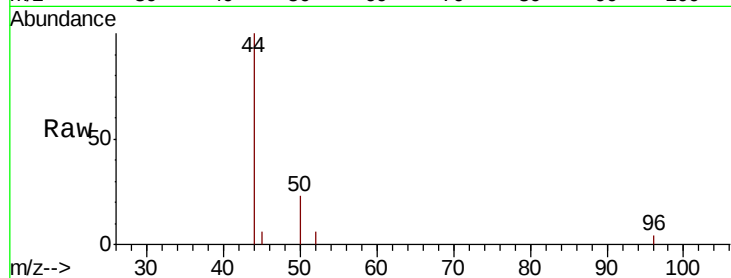
BG4S3

Tot Ion: 50 Resp: 637

Ion Ratio Lower Upper

50 100

52 27.3 24.1 44.8



Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0

1.53

500

400

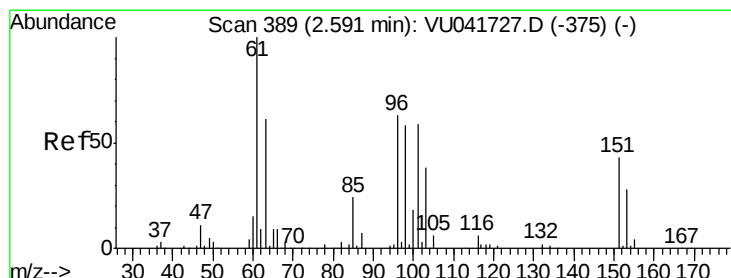
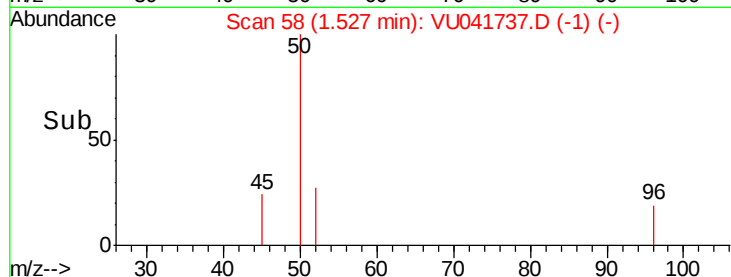
300

200

100

0

Time-->



#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.047 ug/L

RT: 2.58 min Scan# 387

Delta R.T. -0.01 min

Lab File: VU041737.D

Acq: 22 Dec 2020 13:27

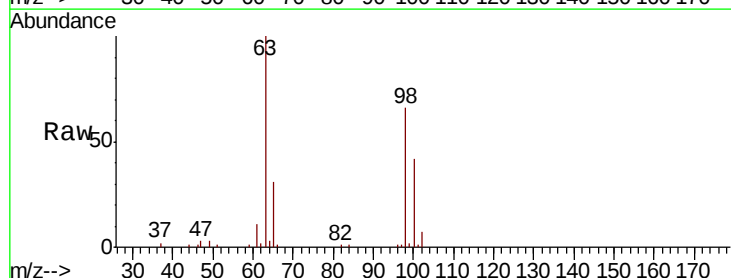
Tgt Ion:101 Resp: 484

Ion Ratio Lower Upper

101 100

85 0.0 33.6 50.4#

151 0.0 56.2 84.4#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V

400

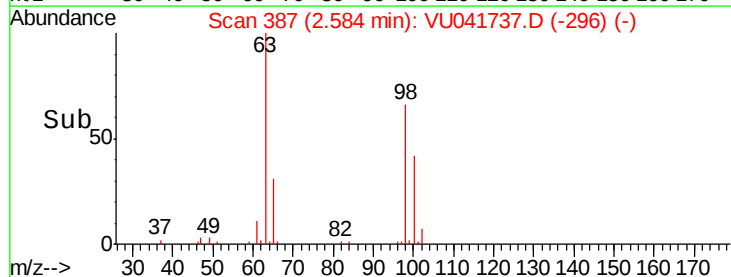
300

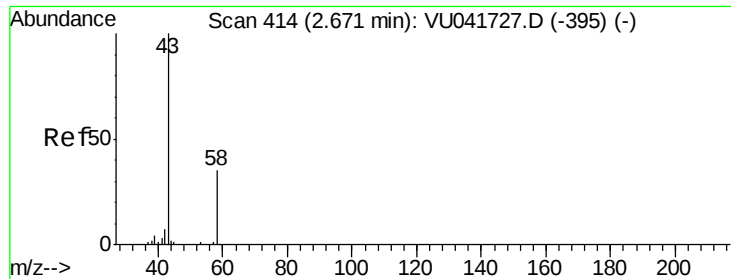
200

100

0

Time-->





#13

Acetone

Concen: 3.114 ug/L

RT: 2.66 min Scan# 411

Delta R.T. -0.01 min

Lab File: VU041737.D

Acq: 22 Dec 2020 13:27

Instrument :

MSVOA_U

ClientSampleId :

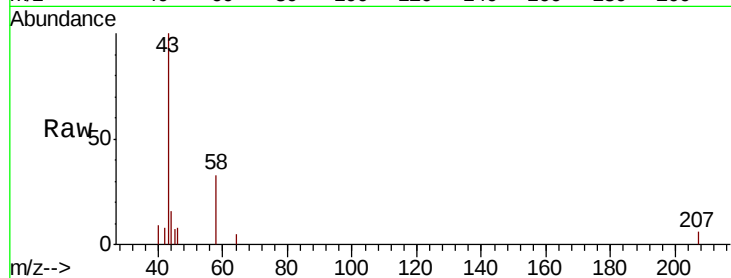
BG4S3

Tot Ion: 43 Resp: 6617

Ion Ratio Lower Upper

43 100

58 32.2 0.0 73.2



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0

2.66

2500

2000

1500

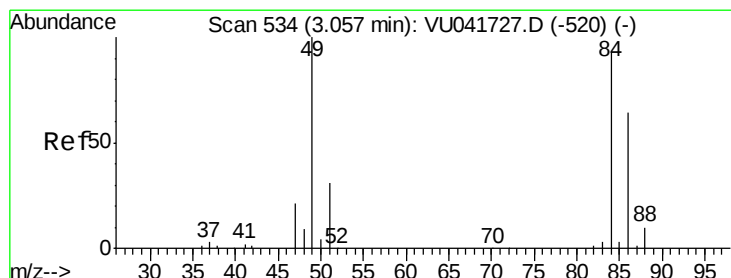
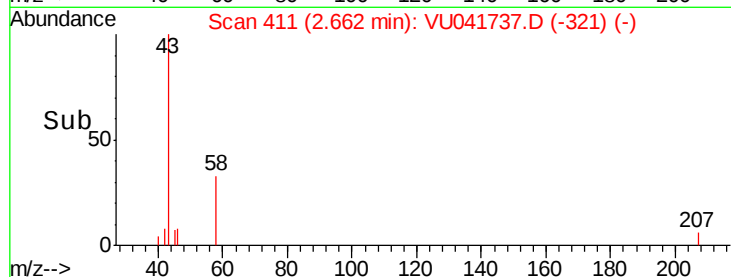
1000

500

0

Time-->

2.60 2.65 2.70 2.75



#16

Methylene chloride

Concen: 0.128 ug/L

RT: 3.06 min Scan# 535

Delta R.T. 0.00 min

Lab File: VU041737.D

Acq: 22 Dec 2020 13:27

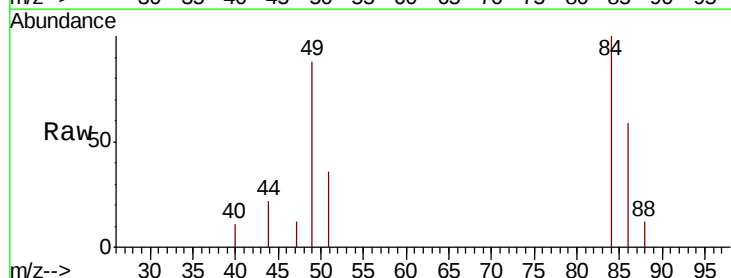
Tgt Ion: 84 Resp: 1542

Ion Ratio Lower Upper

84 100

86 58.9 45.1 83.7

49 88.5 83.1 154.3



Abundance Ion 84.05 (83.75 to 84.75): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.10 (48.80 to 49.80): VU0

3.06

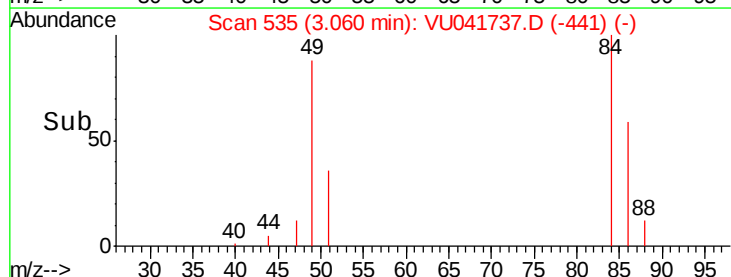
1000

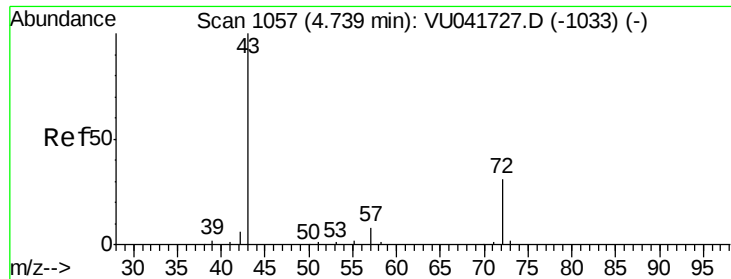
500

0

Time-->

3.00 3.05 3.10





#21

2-Butanone

Concen: 6.030 ug/L

RT: 4.83 min Scan# 1084

Delta R.T. 0.09 min

Lab File: VU041737.D

Acq: 22 Dec 2020 13:27

Instrument :

MSVOA_U

ClientSampleId :

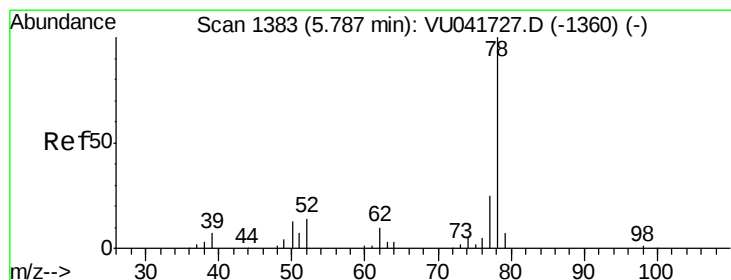
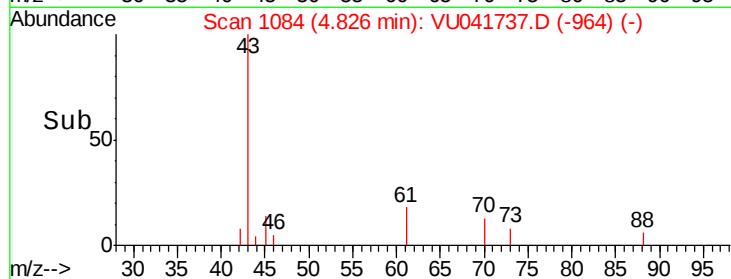
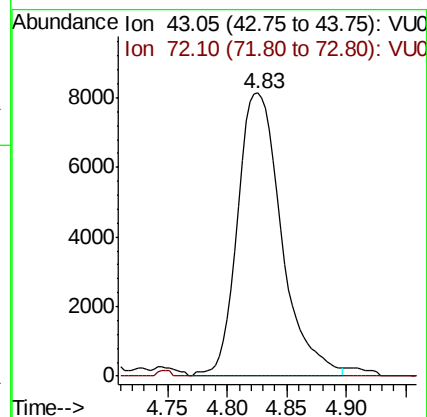
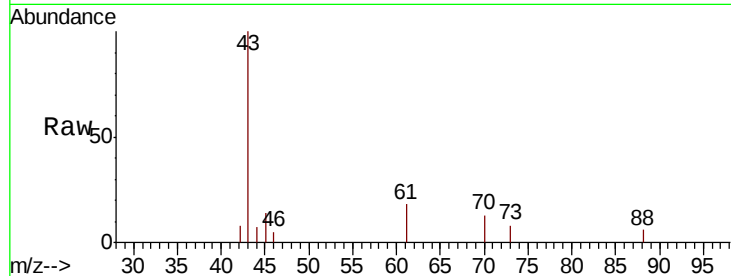
BG4S3

Tot Ion: 43 Resp: 20869

Ion Ratio Lower Upper

43 100

72 0.6 14.6 44.0#



#33

Benzene

Concen: 0.053 ug/L

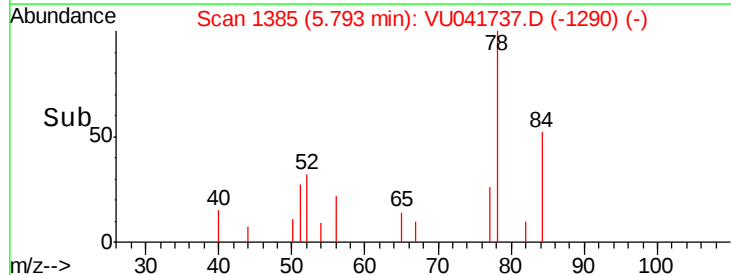
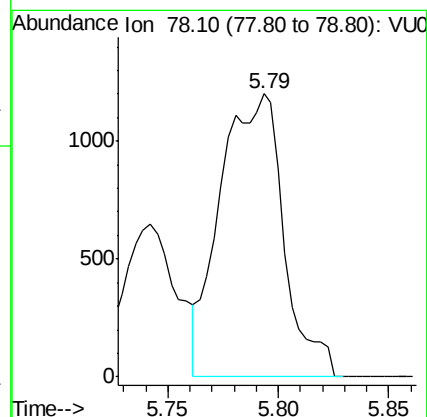
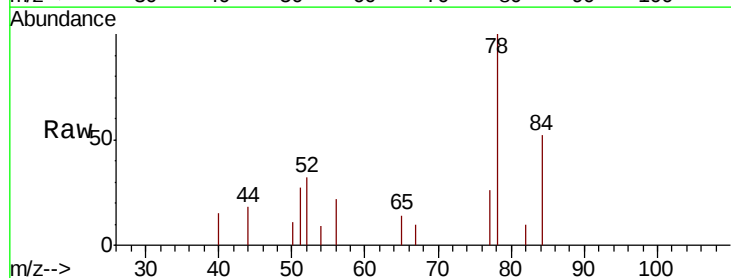
RT: 5.79 min Scan# 1385

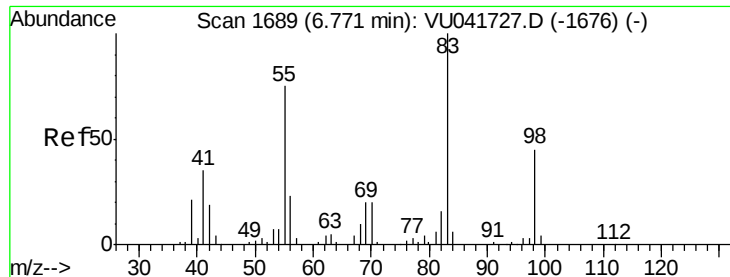
Delta R.T. 0.01 min

Lab File: VU041737.D

Acq: 22 Dec 2020 13:27

Tgt Ion: 78 Resp: 2391

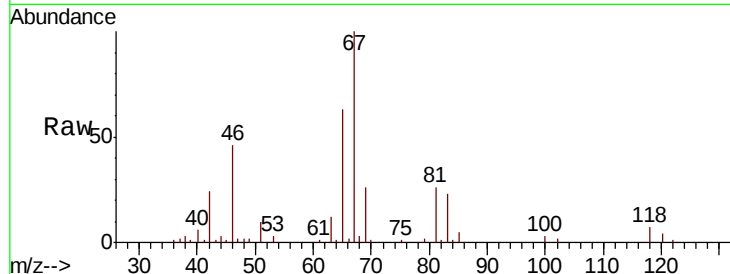




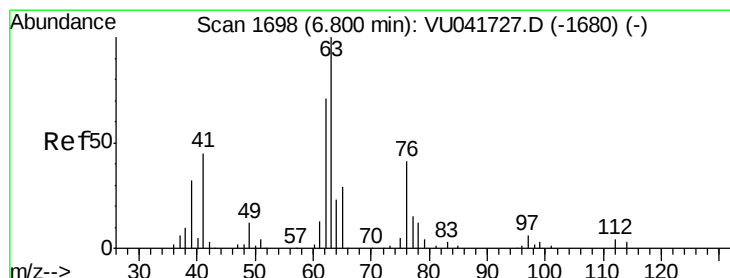
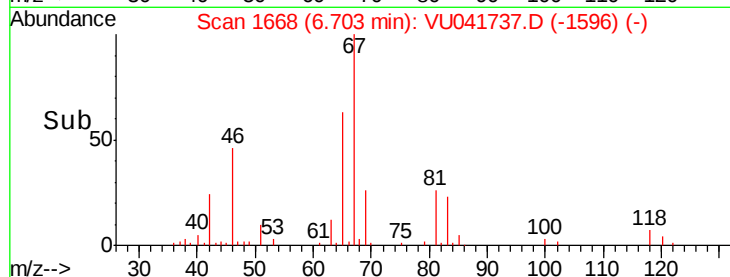
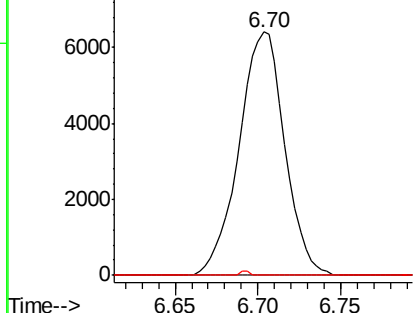
#35
Methvlcvclohexane
Concen: 0.668 ug/L
RT: 6.70 min Scan# 1668
Delta R.T. -0.07 min
Lab File: VU041737.D
Acq: 22 Dec 2020 13:27

Instrument :
MSVOA_U
ClientSampleId :
BG4S3

Tot Ion	Ratio	Lower	Upper
83	100		
55	0.0	61.2	91.8#
98	0.4	36.6	54.8#

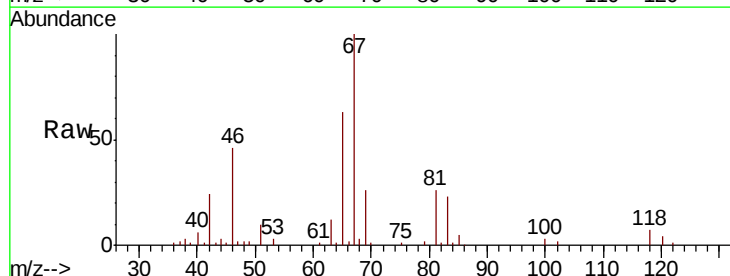


Abundance Ion 83.15 (82.85 to 83.85): VU0
Ion 55.10 (54.80 to 55.80): VU0
Ion 98.15 (97.85 to 98.85): VU0

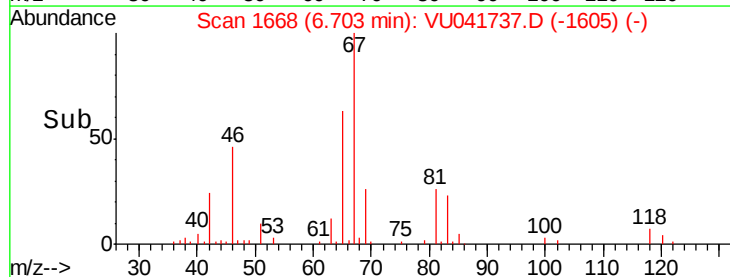
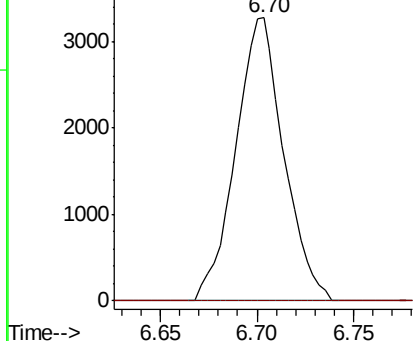


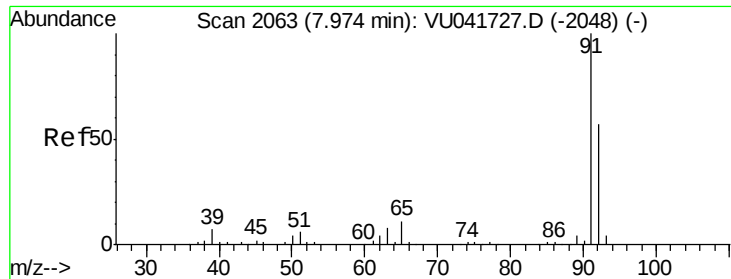
#37
1,2-Dichloropropane
Concen: 0.488 ug/L
RT: 6.70 min Scan# 1668
Delta R.T. -0.10 min
Lab File: VU041737.D
Acq: 22 Dec 2020 13:27

Tgt Ion	Ratio	Lower	Upper
63	100		
112	0.0	3.1	4.7#



Abundance Ion 63.10 (62.80 to 63.80): VU0
Ion 112.10 (111.80 to 112.80): V





#42

Toluene

Concen: 0.448 ug/L

RT: 7.98 min Scan# 2064

Delta R.T. 0.00 min

Lab File: VU041737.D

Acq: 22 Dec 2020 13:27

Instrument :

MSVOA_U

ClientSampleId :

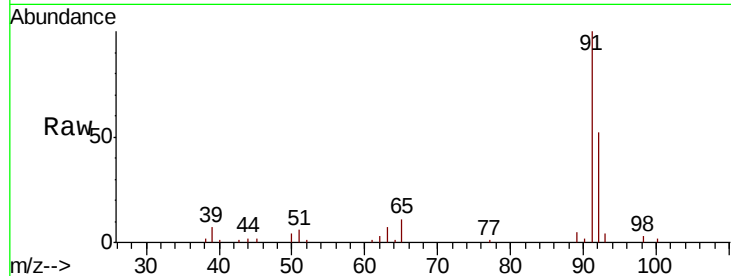
BG4S3

Tot Ion: 91 Resp: 20990

Ion Ratio Lower Upper

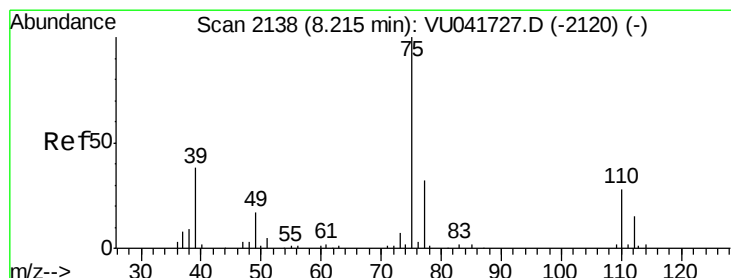
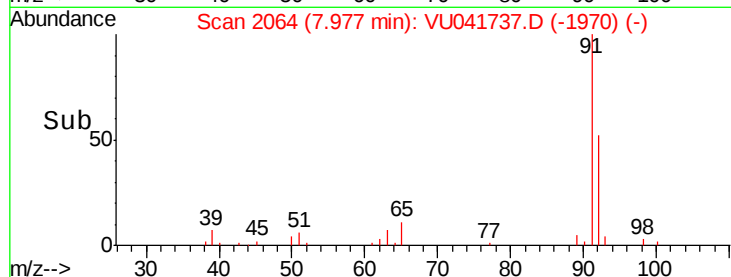
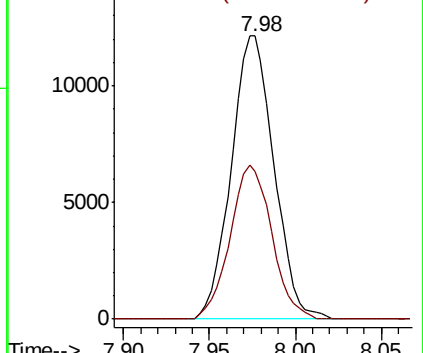
91 100

92 52.3 40.0 74.2



Abundance Ion 91.15 (90.85 to 91.85): VU0

Ion 92.15 (91.85 to 92.85): VU0



#44

trans-1,3-Dichloropropene

Concen: 0.061 ug/L

RT: 8.18 min Scan# 2128

Delta R.T. -0.03 min

Lab File: VU041737.D

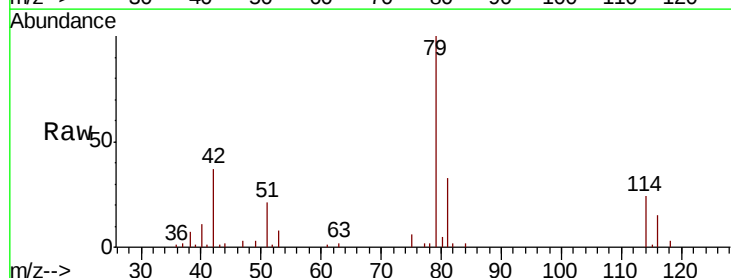
Acq: 22 Dec 2020 13:27

Tgt Ion: 75 Resp: 933

Ion Ratio Lower Upper

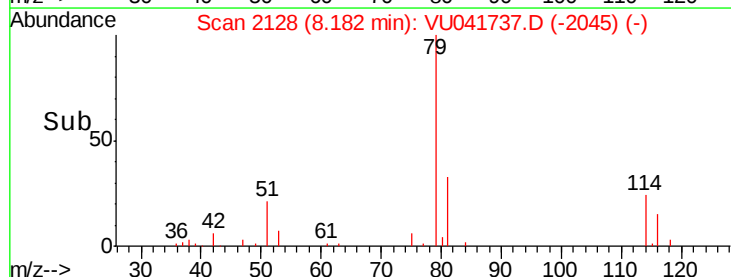
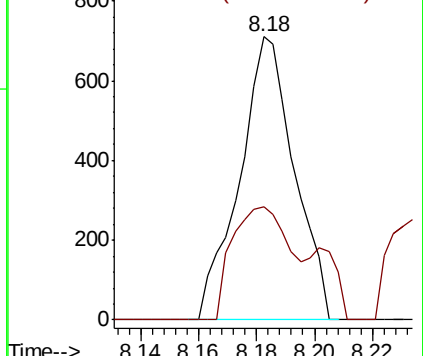
75 100

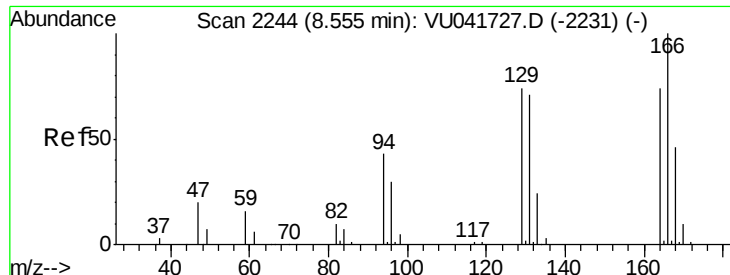
77 40.0 23.8 44.2



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0





#47

Tetrachloroethene

Concen: 0.094 ug/L

RT: 8.55 min Scan# 2243

Delta R.T. -0.00 min

Lab File: VU041737.D

Acq: 22 Dec 2020 13:27

Instrument :

MSVOA_U

ClientSampleId :

BG4S3

Tot Ion:164 Resp: 754

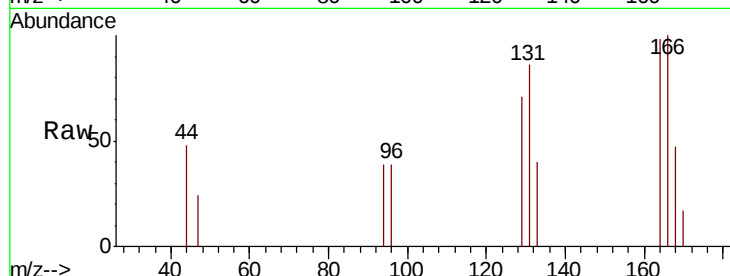
Ion Ratio Lower Upper

164 100

129 73.1 72.2 134.0

131 87.9 66.9 124.3

166 102.4 89.6 166.4

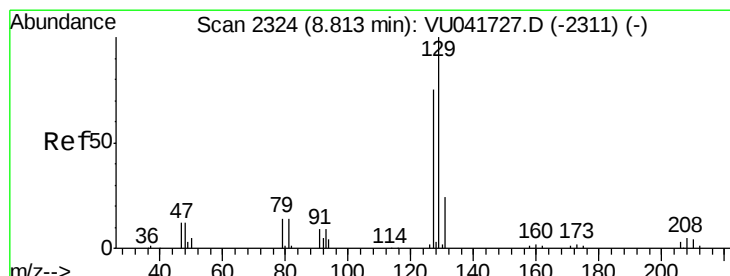
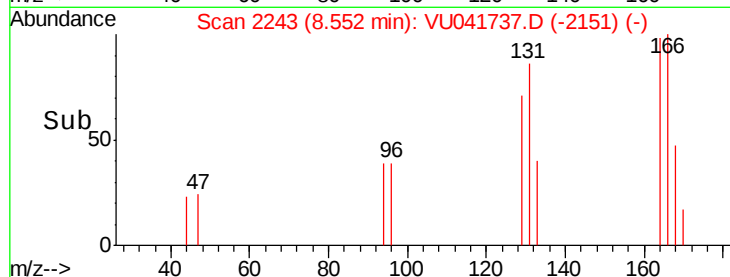
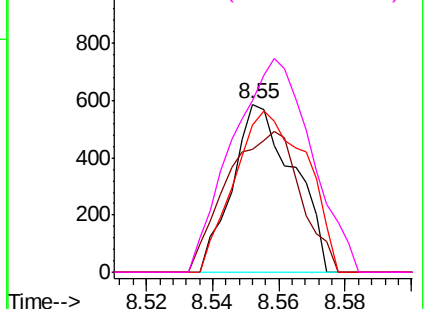


Abundance Ion 163.90 (163.60 to 164.60): V

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



#49

Dibromochloromethane

Concen: 0.078 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. -0.25 min

Lab File: VU041737.D

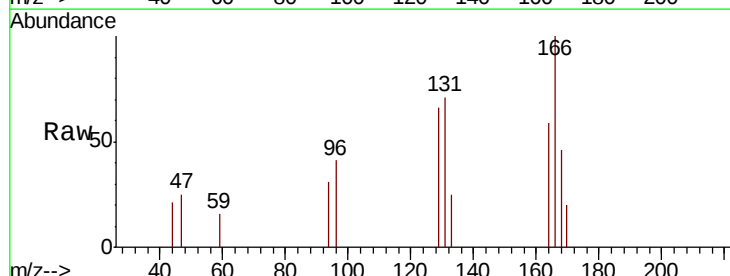
Acq: 22 Dec 2020 13:27

Tgt Ion:129 Resp: 765

Ion Ratio Lower Upper

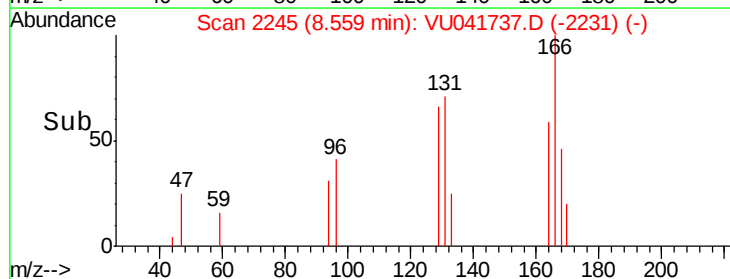
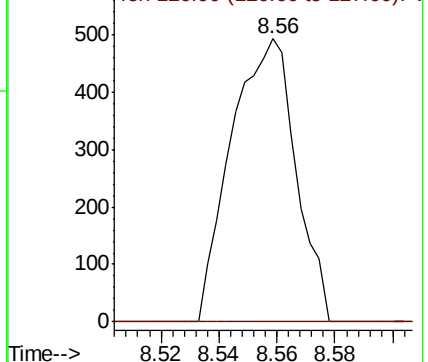
129 100

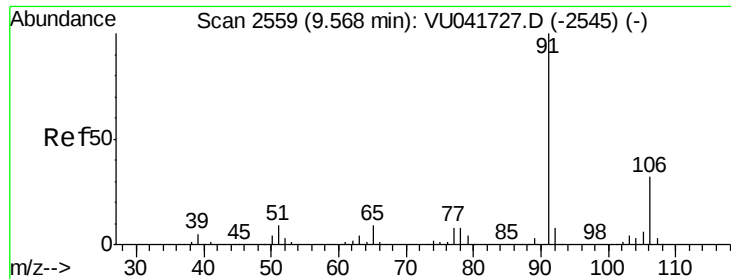
127 0.0 54.7 101.7#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V





#52

Ethylbenzene

Concen: 0.058 ug/L

RT: 9.57 min Scan# 2561

Delta R.T. 0.01 min

Lab File: VU041737.D

Acq: 22 Dec 2020 13:27

Instrument :

MSVOA_U

ClientSampleId :

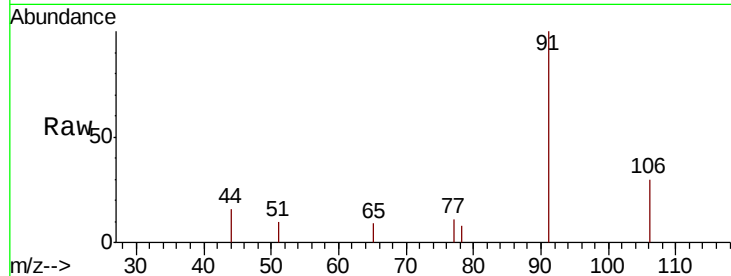
BG4S3

Tot Ion: 91 Resp: 2907

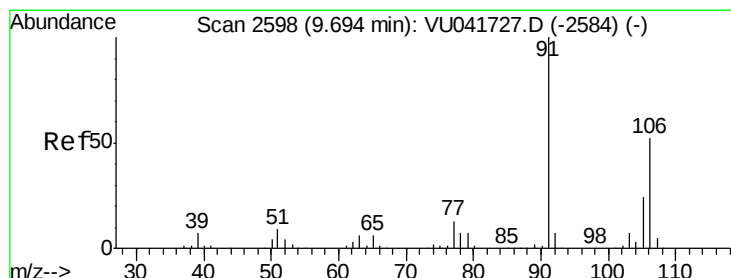
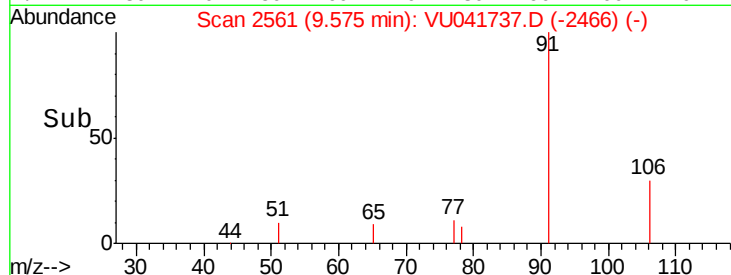
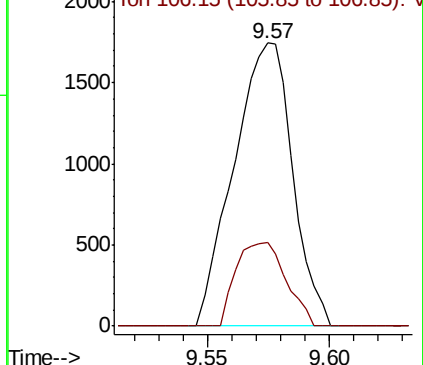
Ion Ratio Lower Upper

91 100

106 29.7 21.1 39.3



Abundance Ion 91.15 (90.85 to 91.85): VU041737.D (-2545) (-)



#53

m,p-Xylene

Concen: 0.206 ug/L

RT: 9.69 min Scan# 2597

Delta R.T. -0.00 min

Lab File: VU041737.D

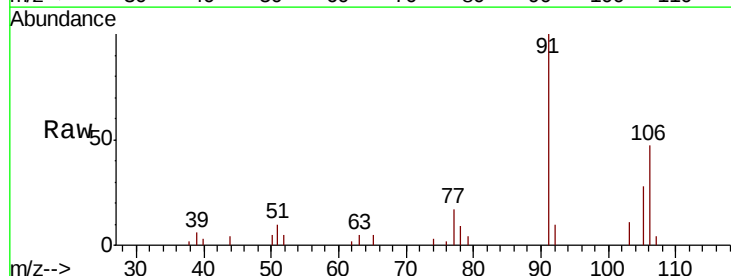
Acq: 22 Dec 2020 13:27

Tgt Ion: 106 Resp: 3839

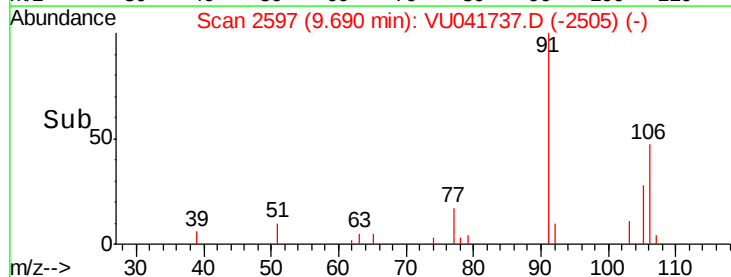
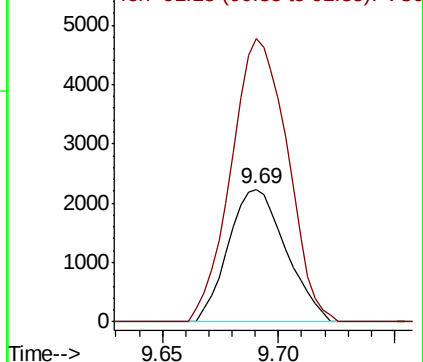
Ion Ratio Lower Upper

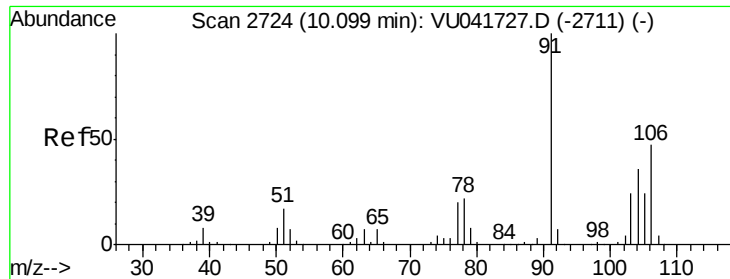
106 100

91 213.2 140.4 260.8



Abundance Ion 106.15 (105.85 to 106.85): VU041737.D (-2584) (-)

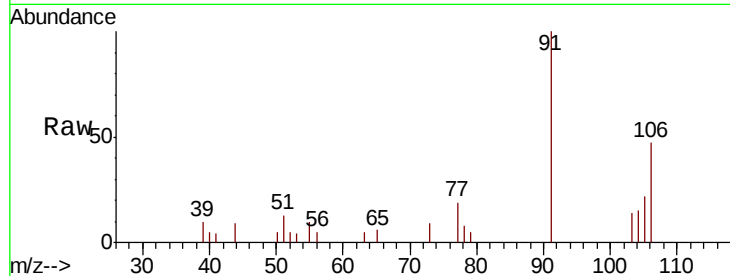




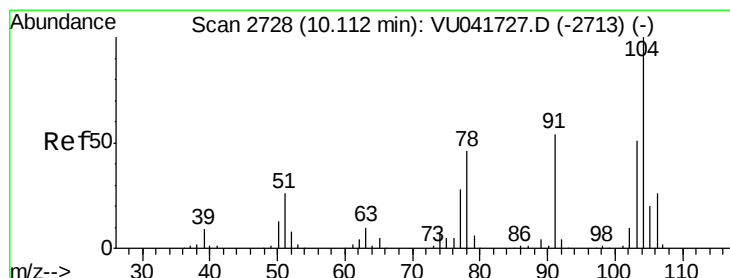
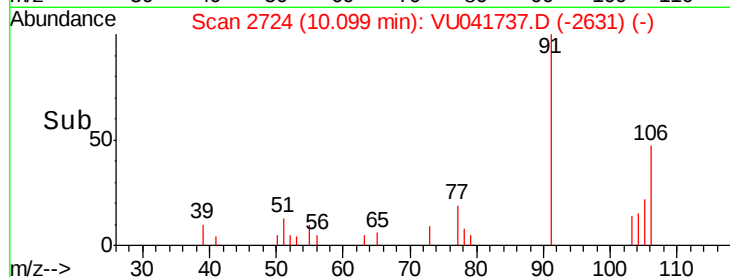
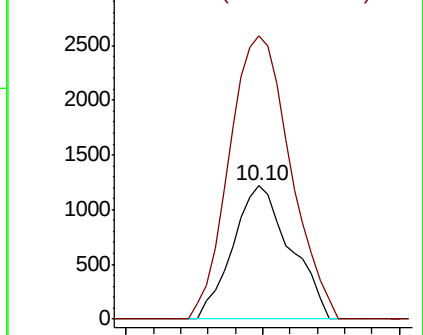
#54
o-Xylene
Concen: 0.098 ug/L
RT: 10.10 min Scan# 2724
Delta R.T. -0.00 min
Lab File: VU041737.D
Acq: 22 Dec 2020 13:27

Instrument :
MSVOA_U
ClientSampleId :
BG4S3

Tot Ion:106 Resp: 1787
Ion Ratio Lower Upper
106 100
91 212.1 151.3 281.1

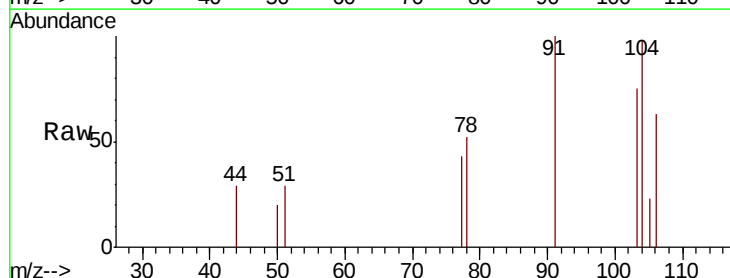


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

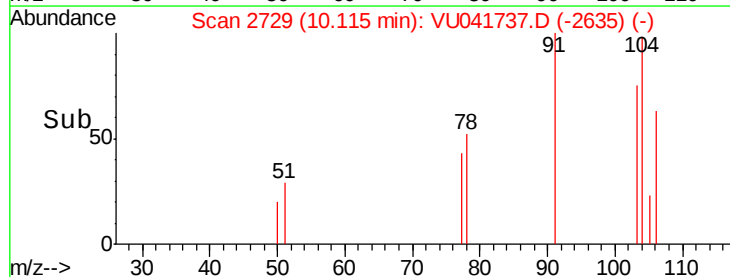
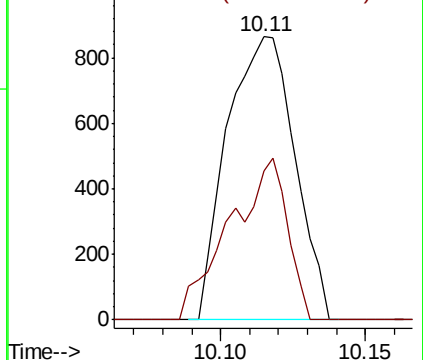


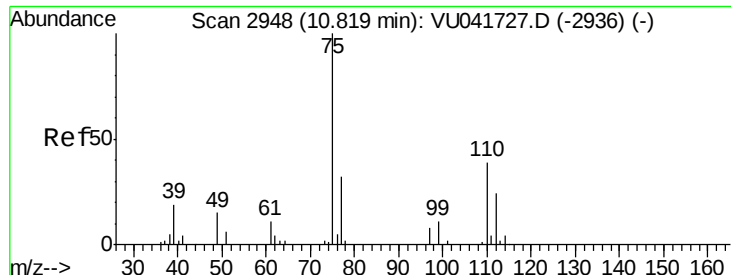
#55
Styrene
Concen: 0.044 ug/L
RT: 10.11 min Scan# 2729
Delta R.T. 0.00 min
Lab File: VU041737.D
Acq: 22 Dec 2020 13:27

Tgt Ion:104 Resp: 1398
Ion Ratio Lower Upper
104 100
78 52.4 31.1 57.9



Abundance Ion 104.10 (103.80 to 104.80): V
Ion 78.10 (77.80 to 78.80): VU0





#59

1,2,3-Trichloropropane

Concen: 0.841 ug/L

RT: 11.81 min Scan# 3255

Delta R.T. 0.99 min

Lab File: VU041737.D

Acq: 22 Dec 2020 13:27

Instrument :

MSVOA_U

ClientSampleId :

BG4S3

Tot Ion: 75 Resp: 7327

Ion Ratio Lower Upper

75 100

77 29.0 26.2 39.2

