

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU070620\
 Data File : VU039290.D
 Acq On : 06 Jul 2020 14:51
 Operator : SY/MD
 Sample : L3193-08MSD
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 H4296MSD

Quant Time: Jul 07 01:19:20 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR070620WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Jul 07 01:17:04 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.27	114	122067	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	116484	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	55437	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	46489	4.95	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	99.00%
7) Chloroethane-d5	1.93	69	40064	4.46	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	89.20%
11) 1,1-Dichloroethene-d2	2.58	63	87109	4.99	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	99.80%
20) 2-Butanone-d5	4.66	46	168956	47.75	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	95.50%
24) Chloroform-d	5.09	84	85634	4.76	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	95.20%
26) 1,2-Dichloroethane-d4	5.72	65	52182	4.69	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	93.80%
32) Benzene-d6	5.75	84	172231	4.81	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	96.20%
36) 1,2-Dichloropropane-d6	6.70	67	58161	4.88	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	97.60%
41) Toluene-d8	7.91	98	158242	4.80	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.00%
43) trans-1,3-Dichloropropene-	8.19	79	22280	4.04	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	80.80%
46) 2-Hexanone-d5	8.64	63	139827	48.17	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	96.34%
57) 1,1,2,2-Tetrachloroethane-	10.76	84	51250	4.51	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	90.20%
64) 1,2-Dichlorobenzene-d4	12.19	152	60062	4.80	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	96.00%

Target Compounds

				Ovalue
3) Chloromethane	1.53	50	820	0.093 ug/L # 39
5) Vinyl chloride	1.61	62	38859	4.273 ug/L # 81
8) Chloroethane	1.95	64	517	0.083 ug/L # 53
12) 1,1-Dichloroethene	2.59	96	35156	5.084 ug/L 92
16) Methylene chloride	3.06	84	1468	0.167 ug/L 92
18) trans-1,2-Dichloroethene	3.37	96	6070	0.807 ug/L 90
22) cis-1,2-Dichloroethene	4.69	96	13009	1.519 ug/L 99
27) 1,2-Dichloroethane	5.79	62	1986	0.176 ug/L # 52
30) Cyclohexane	5.41	56	10750	0.802 ug/L # 93
33) Benzene	5.79	78	180279	5.491 ug/L 100
34) Trichloroethene	6.56	95	42912	5.070 ug/L 94
35) Methylcyclohexane	6.75	83	3107	0.229 ug/L # 5
37) 1,2-Dichloropropane	6.71	63	6867	0.750 ug/L # 90
39) cis-1,3-Dichloropropene	7.58	75	1849	0.130 ug/L # 67
42) Toluene	7.98	91	182855	5.117 ug/L 99
45) 1,1,2-Trichloroethane	8.38	97	9583	1.407 ug/L # 20
51) Chlorobenzene	9.45	112	108595	4.914 ug/L 96

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Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Jul 07 01:17:04 2020
Response via : Initial Calibration

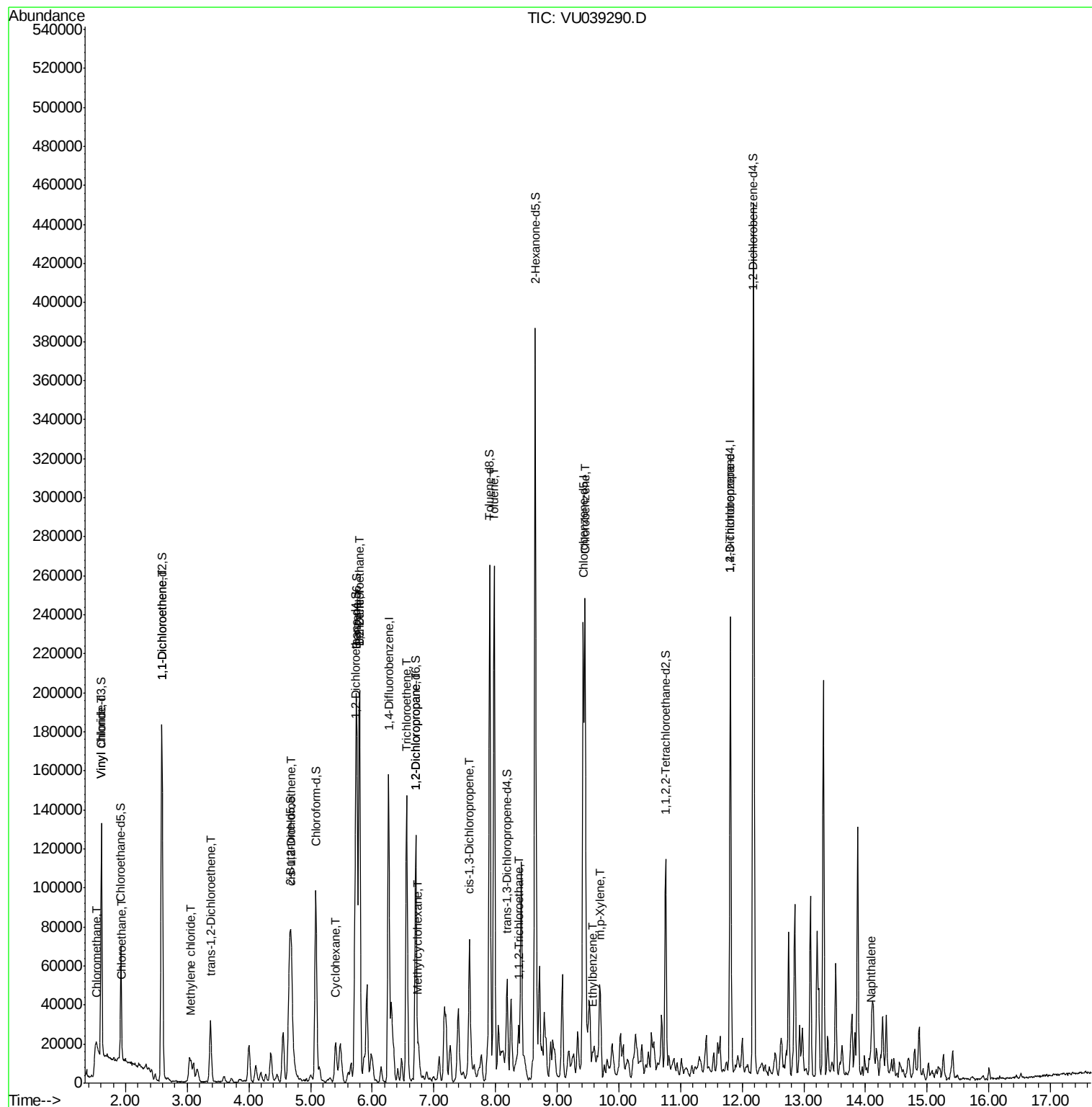
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
52) Ethylbenzene	9.57	91	3464	0.087	ug/L	94
53) m,p-Xylene	9.70	106	1270	0.085	ug/L	95
59) 1,2,3-Trichloropropane	11.81	75	8520	1.238	ug/L	92
69) Naphthalene	14.08	128	2466	0.116	ug/L #	40

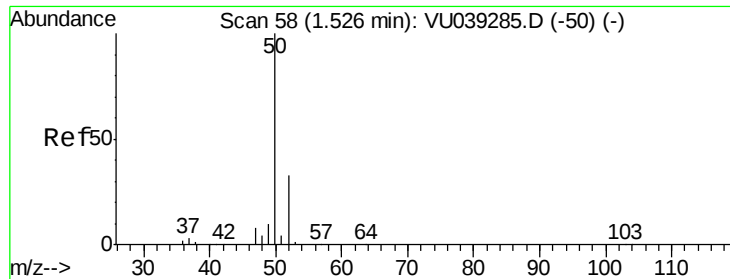
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.093 ug/L

RT: 1.53 min Scan# 58

Delta R.T. 0.00 min

Lab File: VU039290.D

Acq: 06 Jul 2020 14:51

Instrument :

MSVOA_U

ClientSampleId :

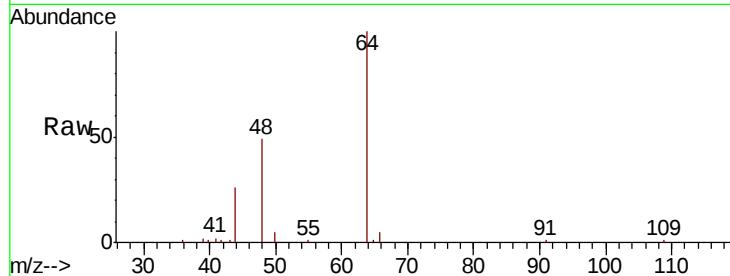
H4296MSD

Tot Ion: 50 Resp: 820

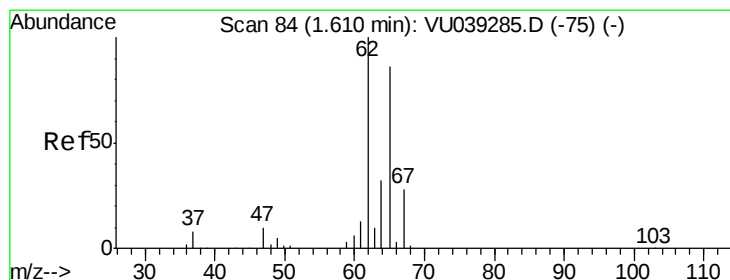
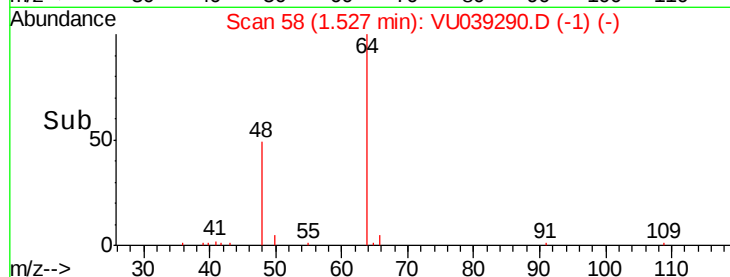
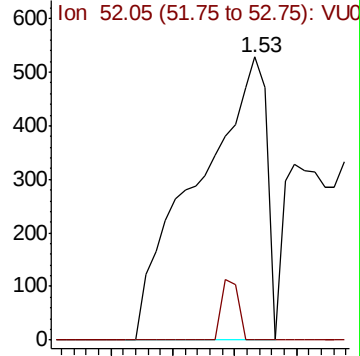
Ion Ratio Lower Upper

50 100

52 0.0 24.7 45.9#



Abundance Ion 50.05 (49.75 to 50.75): VU039285.D (-50) (-)



#5

Vinyl chloride

Concen: 4.273 ug/L

RT: 1.61 min Scan# 84

Delta R.T. 0.00 min

Lab File: VU039290.D

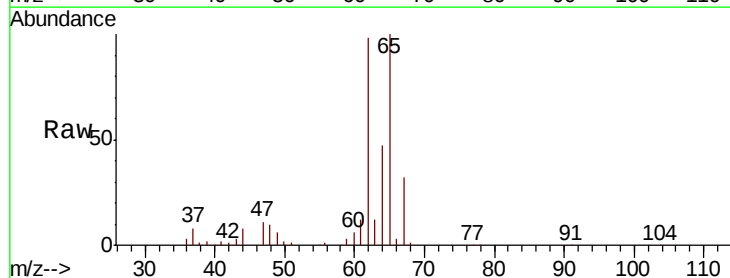
Acq: 06 Jul 2020 14:51

Tgt Ion: 62 Resp: 38859

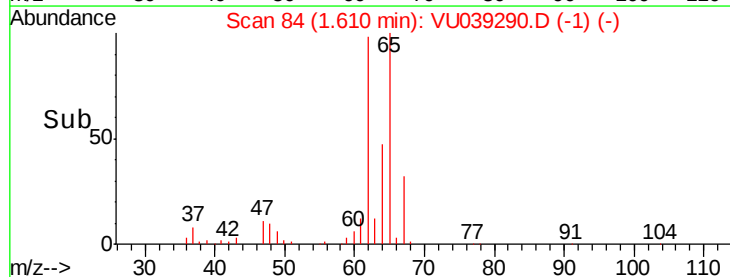
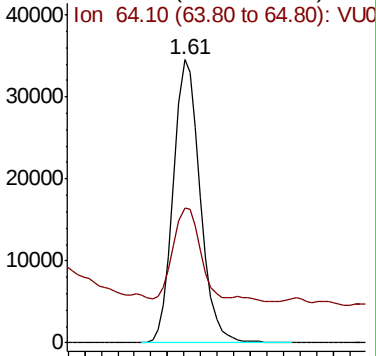
Ion Ratio Lower Upper

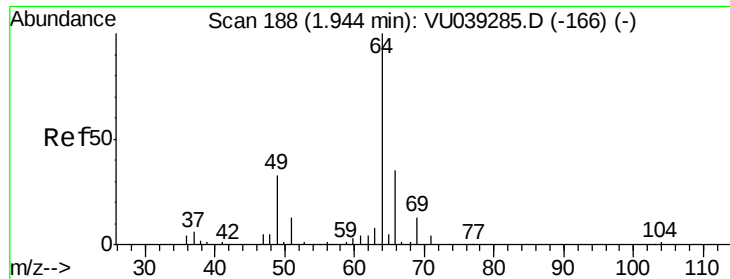
62 100

64 47.8 25.6 47.4#



Abundance Ion 62.00 (61.70 to 62.70): VU039285.D (-75) (-)

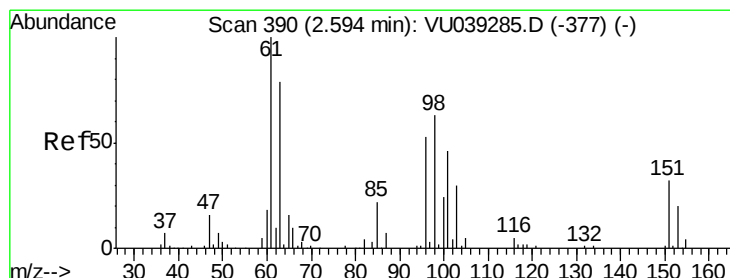
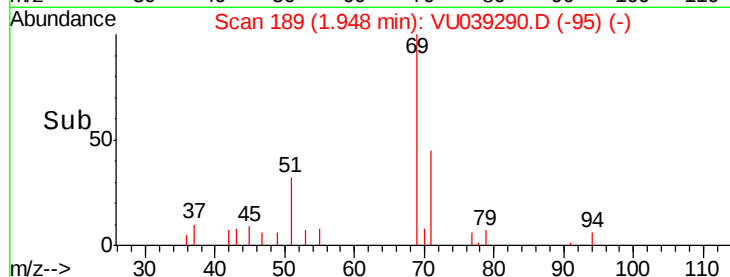
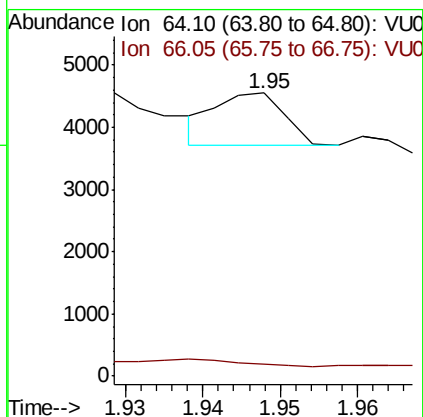
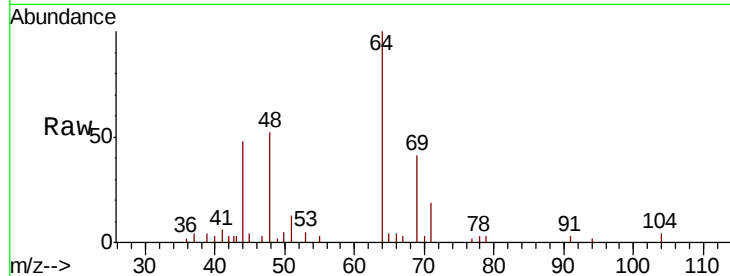




#8
Chloroethane
Concen: 0.083 ug/L
RT: 1.95 min Scan# 189
Delta R.T. 0.00 min
Lab File: VU039290.D
Acq: 06 Jul 2020 14:51

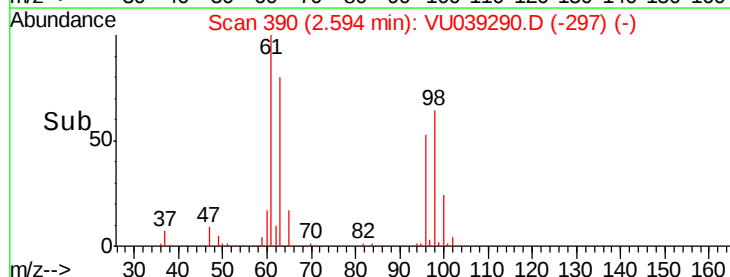
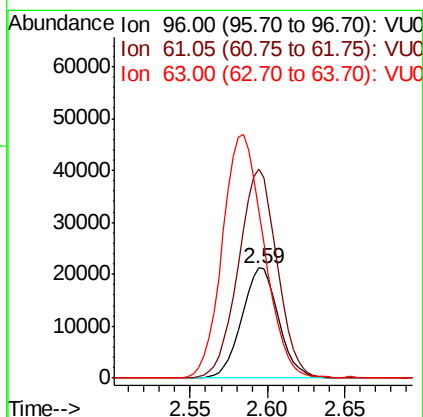
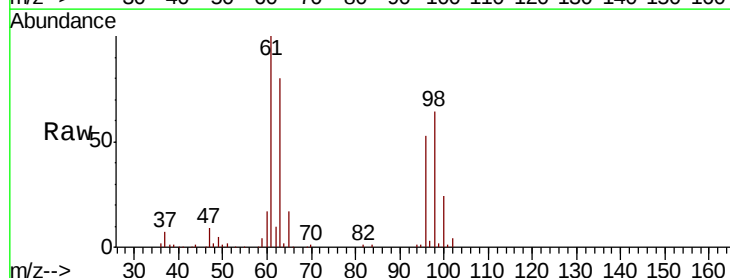
Instrument :
MSVOA_U
ClientSampleId :
H4296MSD

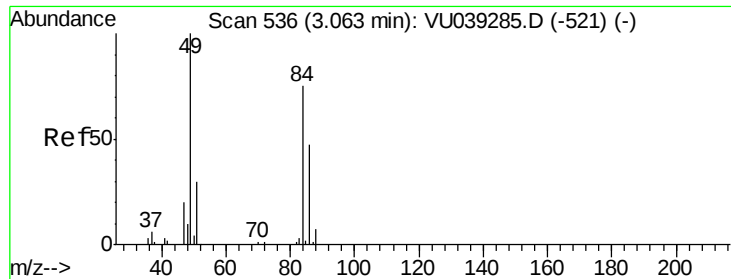
Tot Ion: 64 Resp: 517
Ion Ratio Lower Upper
64 100
66 4.1 20.7 38.5#



#12
1,1-Dichloroethene
Concen: 5.084 ug/L
RT: 2.59 min Scan# 390
Delta R.T. 0.00 min
Lab File: VU039290.D
Acq: 06 Jul 2020 14:51

Tgt Ion: 96 Resp: 35156
Ion Ratio Lower Upper
96 100
61 190.1 123.8 230.0
63 151.2 112.1 208.3

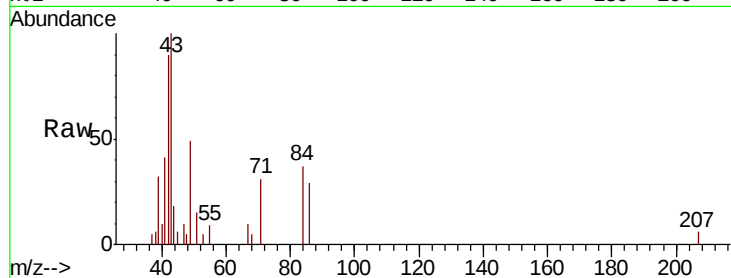




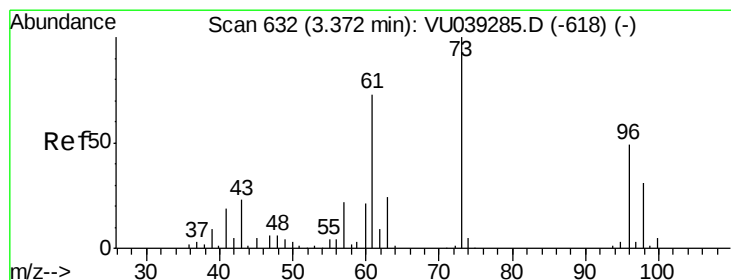
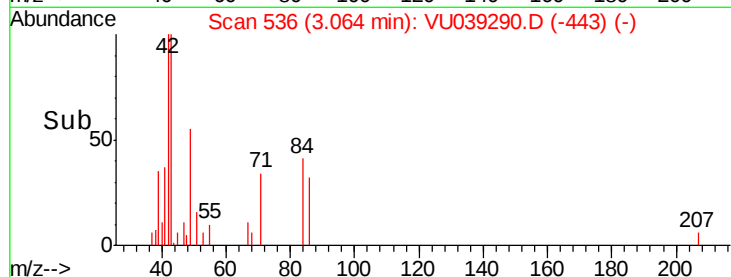
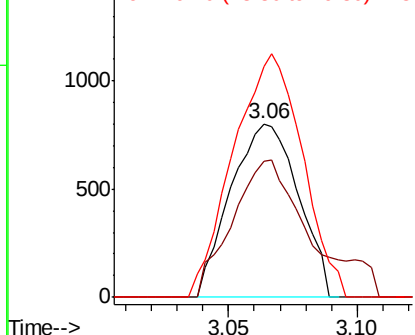
#16
Methvlene chloride
Concen: 0.167 ug/L
RT: 3.06 min Scan# 536
Delta R.T. 0.00 min
Lab File: VU039290.D
Acq: 06 Jul 2020 14:51

Instrument :
MSVOA_U
ClientSampled :
H4296MSD

Tot Ion: 84 Resp: 1468
Ion Ratio Lower Upper
84 100
86 78.6 42.6 79.0
49 132.5 93.0 172.8

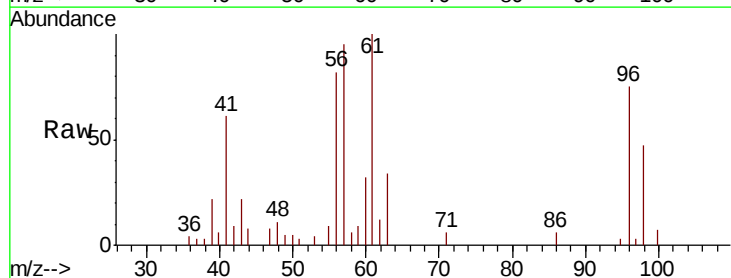


Abundance Ion 84.05 (83.75 to 84.75): VU0
Ion 86.00 (85.70 to 86.70): VU0
Ion 49.10 (48.80 to 49.80): VU0

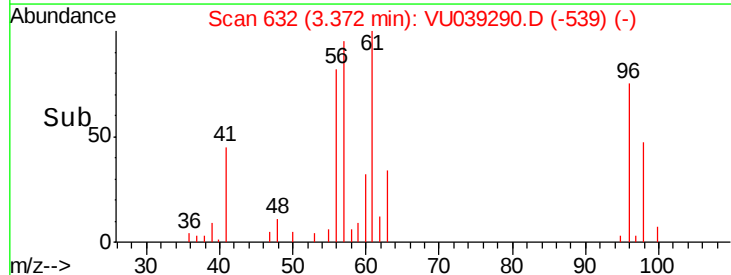
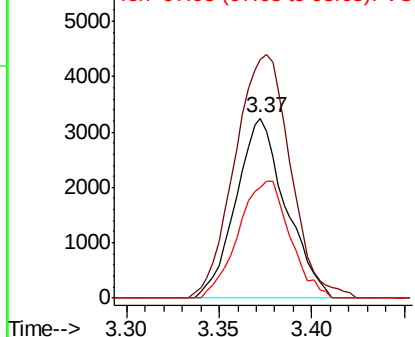


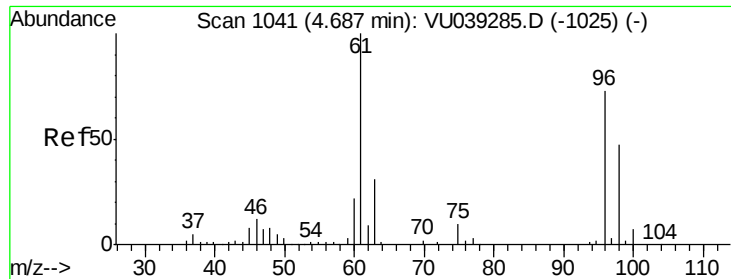
#18
trans-1,2-Dichloroethene
Concen: 0.807 ug/L
RT: 3.37 min Scan# 632
Delta R.T. 0.00 min
Lab File: VU039290.D
Acq: 06 Jul 2020 14:51

Tgt Ion: 96 Resp: 6070
Ion Ratio Lower Upper
96 100
61 132.6 104.7 194.5
98 61.7 43.1 80.1



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: 1.519 ug/L

RT: 4.69 min Scan# 1042

Delta R.T. 0.00 min

Lab File: VU039290.D

Acq: 06 Jul 2020 14:51

Instrument :

MSVOA_U

ClientSampleId :

H4296MSD

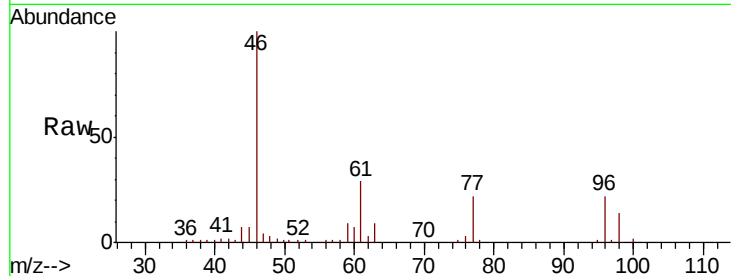
Tot Ion: 96 Resp: 13009

Ion Ratio Lower Upper

96 100

61 132.8 93.7 173.9

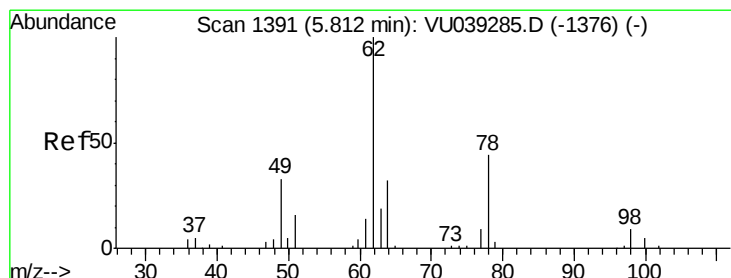
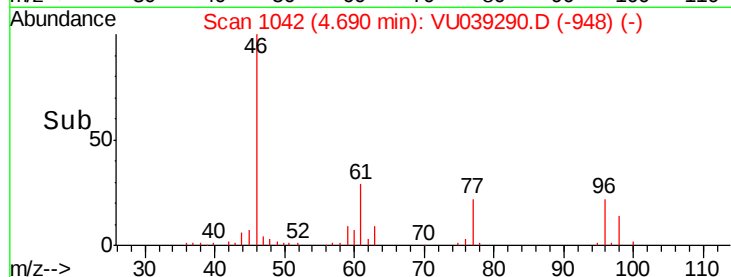
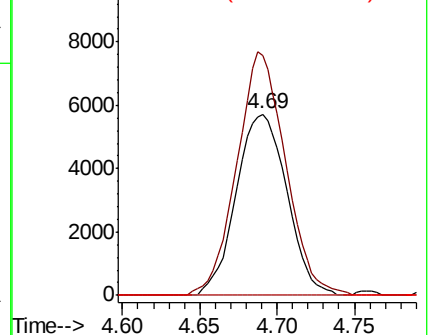
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU039290.D (-948) (-)

Ion 61.05 (60.75 to 61.75): VU039290.D (-948) (-)

Ion 68.15 (67.85 to 68.85): VU039290.D (-948) (-)



#27

1,2-Dichloroethane

Concen: 0.176 ug/L

RT: 5.79 min Scan# 1384

Delta R.T. -0.02 min

Lab File: VU039290.D

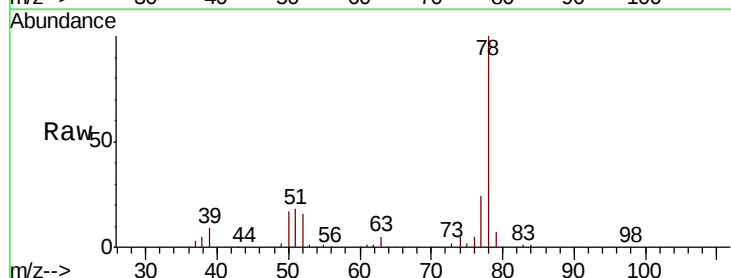
Acq: 06 Jul 2020 14:51

Tgt Ion: 62 Resp: 1986

Ion Ratio Lower Upper

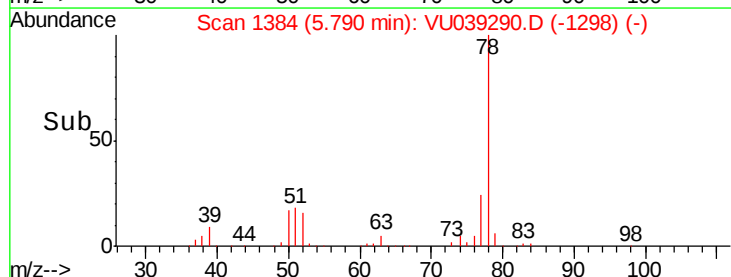
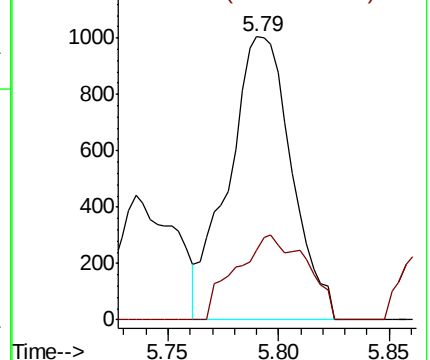
62 100

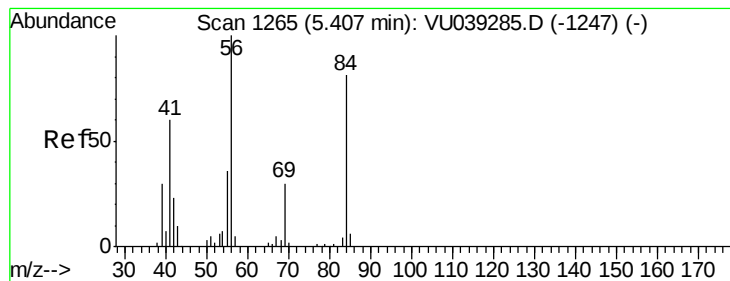
98 24.5 6.2 9.4#



Abundance Ion 62.00 (61.70 to 62.70): VU039290.D (-1298) (-)

Ion 98.05 (97.75 to 98.75): VU039290.D (-1298) (-)





#30

Cyclohexane

Concen: 0.802 ug/L

RT: 5.41 min Scan# 1265

Delta R.T. 0.00 min

Lab File: VU039290.D

Acq: 06 Jul 2020 14:51

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MSVOA_U

ClientSampleId :

H4296MSD

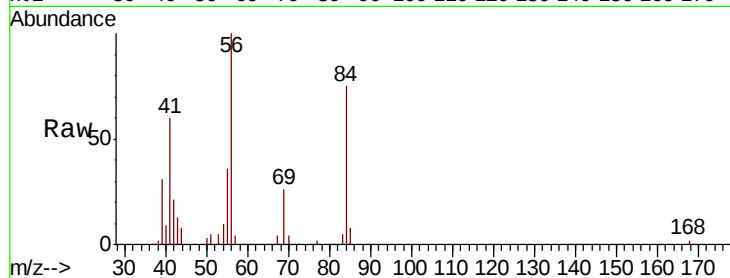
Tot Ion: 56 Resp: 10750

Ion Ratio Lower Upper

56 100

69 17.8 24.2 36.4#

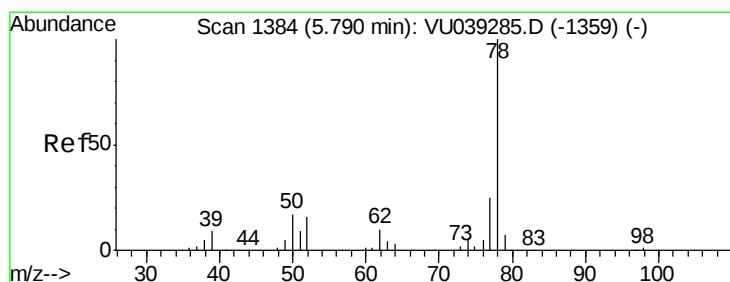
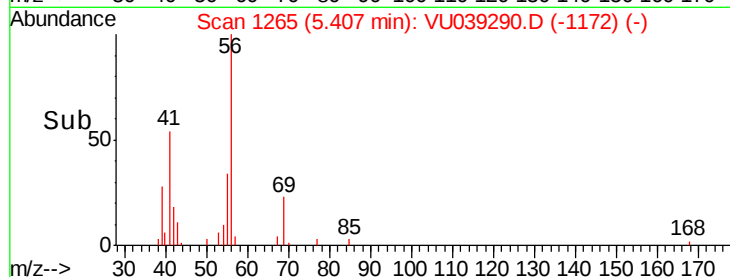
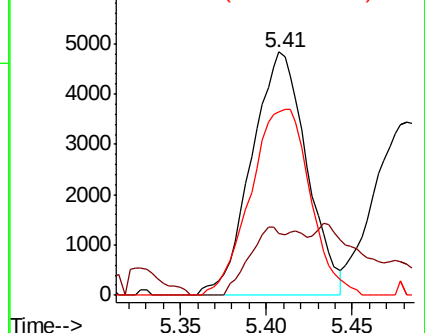
84 82.6 67.0 100.4



Abundance Ion 56.10 (55.80 to 56.80): VU039285.D (-1247) (-)

Ion 69.15 (68.85 to 69.85): VU039285.D (-1247) (-)

Ion 84.15 (83.85 to 84.85): VU039285.D (-1247) (-)



#33

Benzene

Concen: 5.491 ug/L

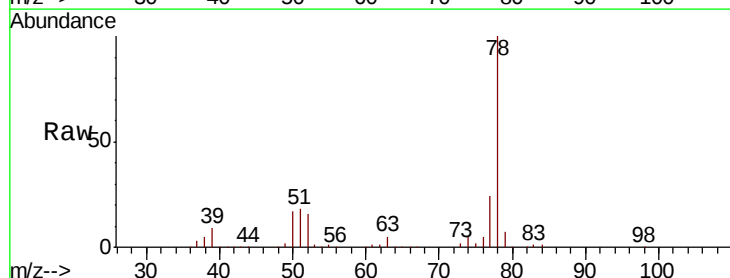
RT: 5.79 min Scan# 1384

Delta R.T. 0.00 min

Lab File: VU039290.D

Acq: 06 Jul 2020 14:51

Tgt Ion: 78 Resp: 180279



Abundance Ion 78.10 (77.80 to 78.80): VU039285.D (-1359) (-)

Ion 78.10 (77.80 to 78.80): VU039285.D (-1359) (-)

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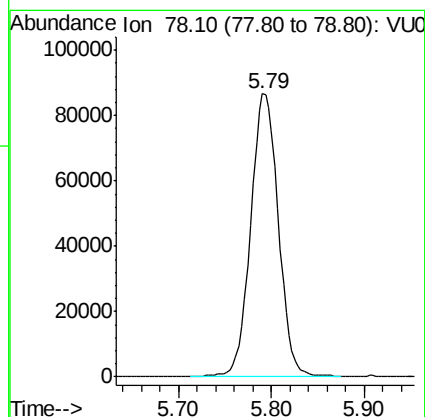
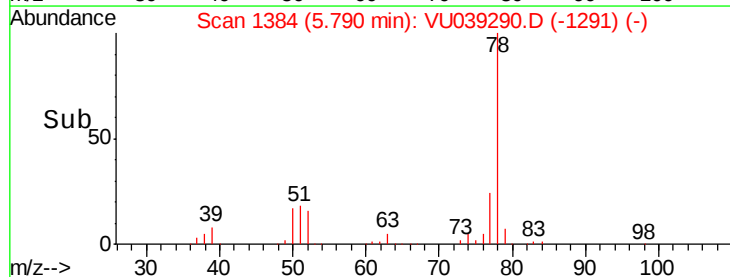
Ion 78.10 (77.80 to 78.80): VU039285.D (-1359) (-)

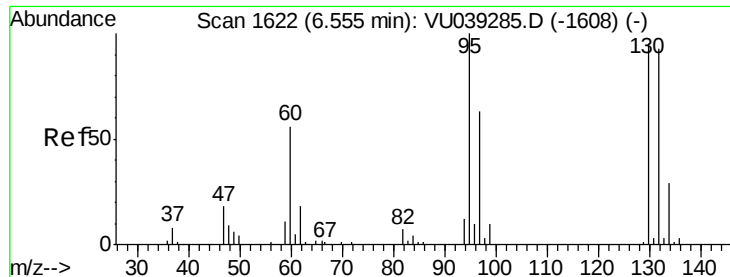
Ion 78.10 (77.80 to 78.80): VU039285.D (-1359) (-)

Ion 78.10 (77.80 to 78.80): VU039285.D (-1359) (-)

Ion 78.10 (77.80 to 78.80): VU039285.D (-1359) (-)

Ion 78.10 (77.80 to 78.80): VU039285.D (-1359) (-)

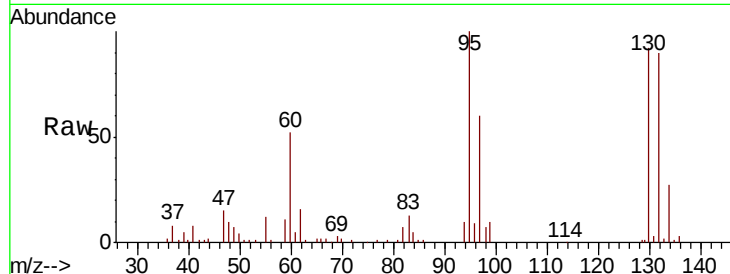




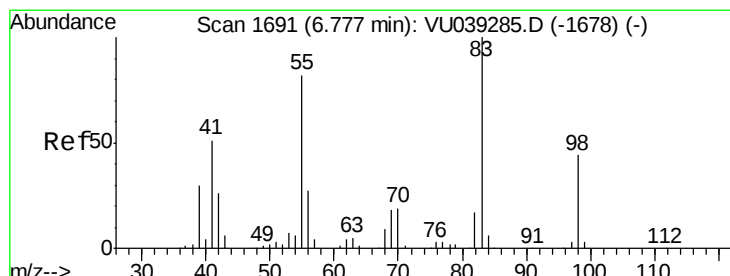
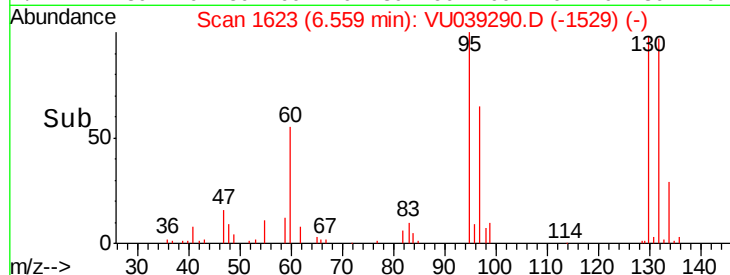
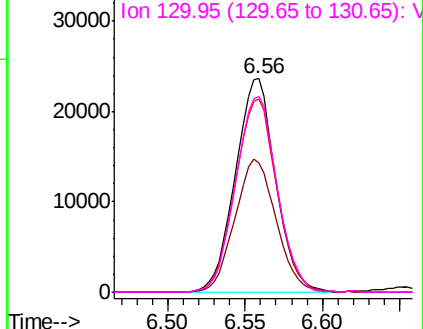
#34
 Trichloroethene
 Concen: 5.070 ug/L
 RT: 6.56 min Scan# 1623
 Delta R.T. 0.00 min
 Lab File: VU039290.D
 Acq: 06 Jul 2020 14:51

Instrument :
 MSVOA_U
 ClientSampleId :
 H4296MSD

Tot Ion: 95 Resp: 42912
 Ion Ratio Lower Upper
 95 100
 97 60.4 47.0 87.2
 132 90.5 65.0 120.8
 130 91.7 69.8 129.6

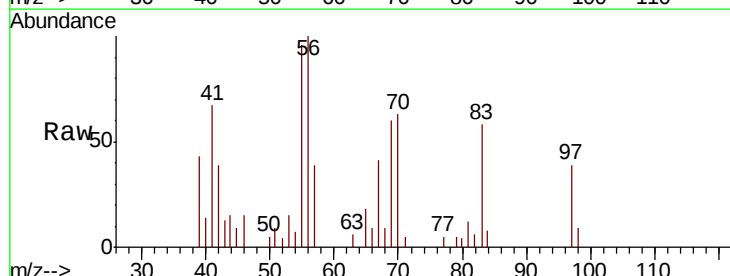


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 96.95 (96.65 to 97.65): VU0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

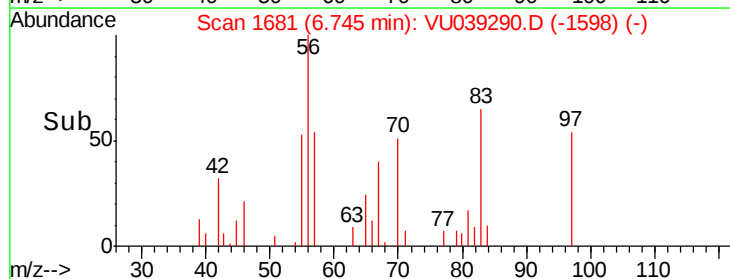
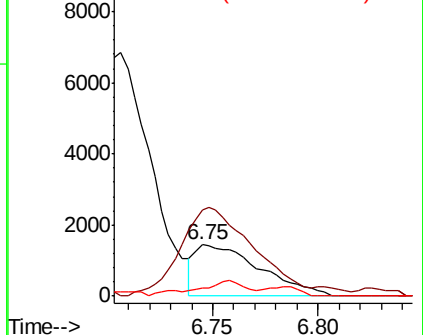


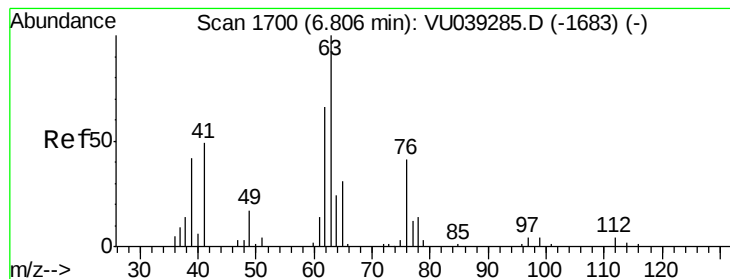
#35
 Methylcyclohexane
 Concen: 0.229 ug/L
 RT: 6.75 min Scan# 1681
 Delta R.T. -0.03 min
 Lab File: VU039290.D
 Acq: 06 Jul 2020 14:51

Tgt Ion: 83 Resp: 3107
 Ion Ratio Lower Upper
 83 100
 55 193.7 63.3 94.9#
 98 22.8 37.4 56.2#



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: 0.750 ug/L

RT: 6.71 min Scan# 1670

Delta R.T. -0.10 min

Lab File: VU039290.D

Acq: 06 Jul 2020 14:51

Instrument :

MSVOA_U

ClientSampleId :

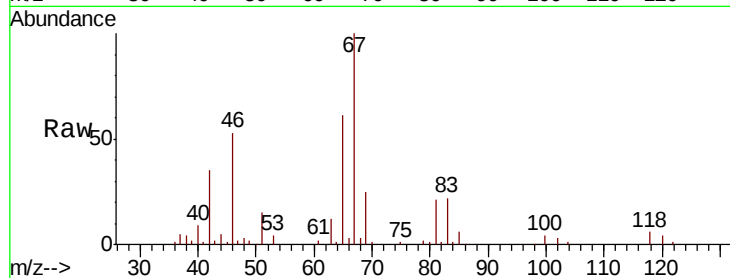
H4296MSD

Tot Ion: 63 Resp: 6867

Ion Ratio Lower Upper

63 100

112 0.0 2.6 3.8#



Abundance Ion 63.10 (62.80 to 63.80): VU039285.D (-1683) (-)

Ion 112.10 (111.80 to 112.80): VU039285.D (-1683) (-)

6.71

4000

3000

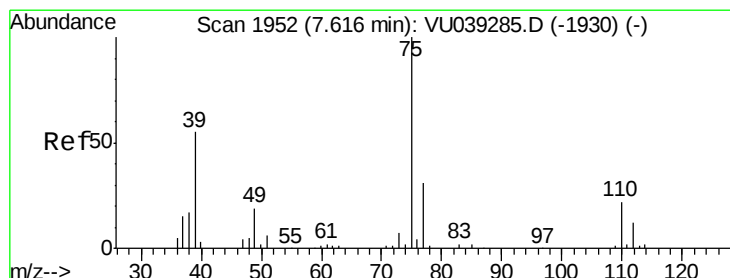
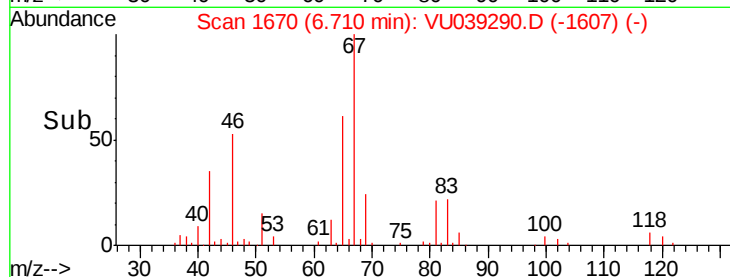
2000

1000

0

6.65 6.70 6.75

Time-->



#39

cis-1,3-Dichloropropene

Concen: 0.130 ug/L

RT: 7.58 min Scan# 1940

Delta R.T. -0.04 min

Lab File: VU039290.D

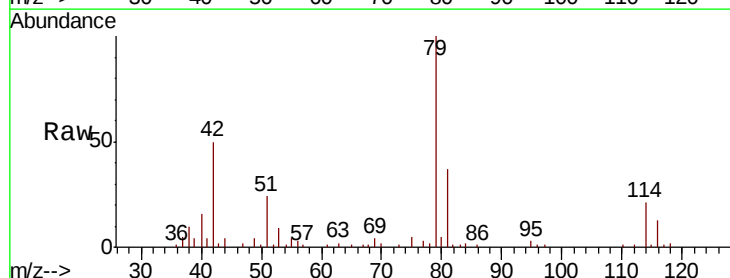
Acq: 06 Jul 2020 14:51

Tgt Ion: 75 Resp: 1849

Ion Ratio Lower Upper

75 100

77 52.2 23.3 43.3#



Abundance Ion 75.05 (74.75 to 75.75): VU039285.D (-1930) (-)

Ion 77.05 (76.75 to 77.75): VU039285.D (-1930) (-)

7.58

1200

1000

800

600

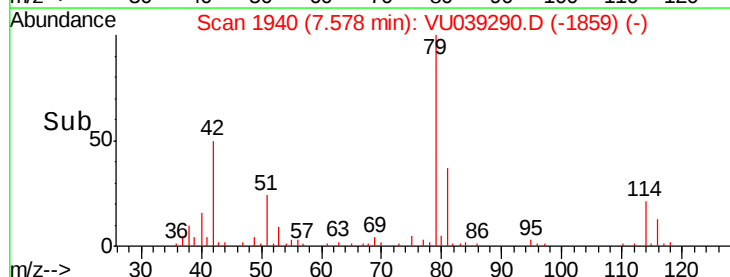
400

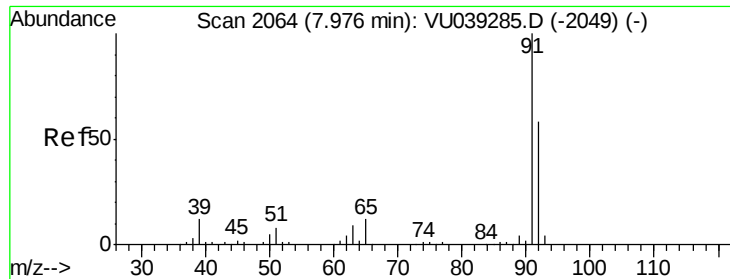
200

0

7.55 7.60

Time-->





#42

Toluene

Concen: 5.117 ug/L

RT: 7.98 min Scan# 2064

Delta R.T. 0.00 min

Lab File: VU039290.D

Acq: 06 Jul 2020 14:51

Instrument :

MSVOA_U

ClientSampleId :

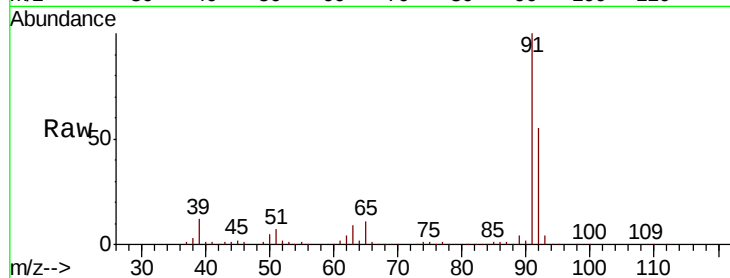
H4296MSD

Tot Ion: 91 Resp: 182855

Ion Ratio Lower Upper

91 100

92 55.2 39.3 72.9



Abundance Ion 91.15 (90.85 to 91.85): VU0

Ion 92.15 (91.85 to 92.85): VU0

7.98

120000

100000

80000

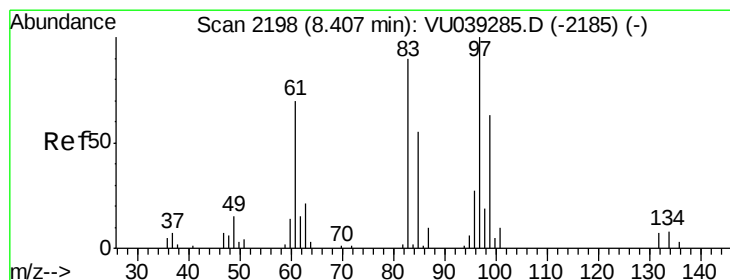
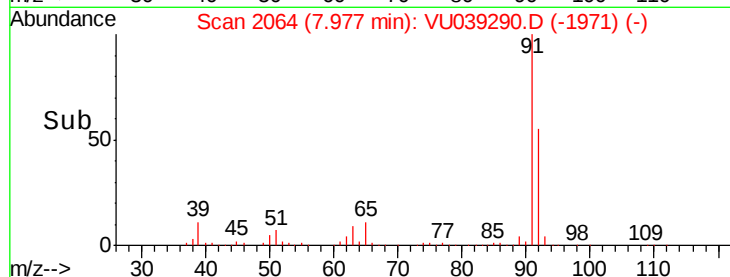
60000

40000

20000

0

Time-->



#45

1,1,2-Trichloroethane

Concen: 1.407 ug/L

RT: 8.38 min Scan# 2188

Delta R.T. -0.03 min

Lab File: VU039290.D

Acq: 06 Jul 2020 14:51

Tgt Ion: 97 Resp: 9583

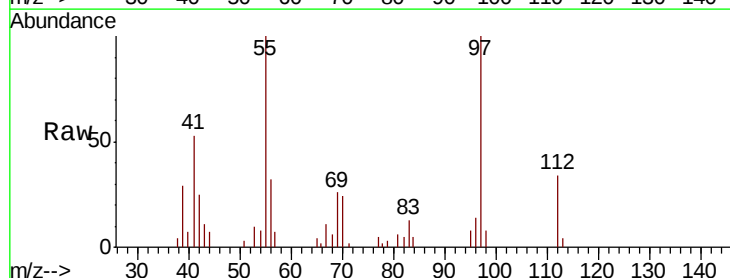
Ion Ratio Lower Upper

97 100

99 0.0 42.5 78.9#

83 12.6 62.2 115.4#

85 0.0 38.7 71.9#



Abundance Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

8000

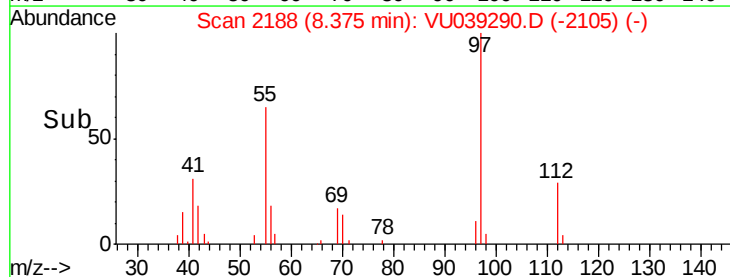
6000

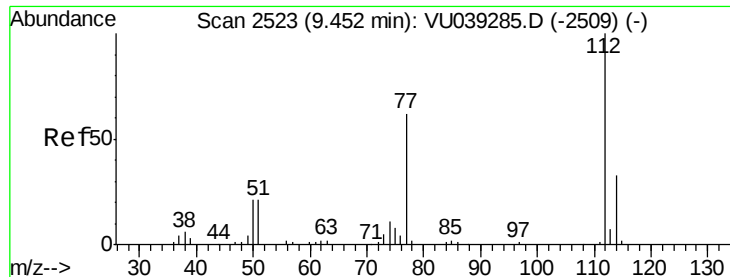
4000

2000

0

Time-->

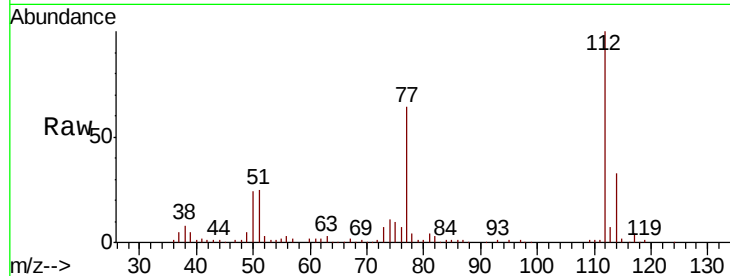




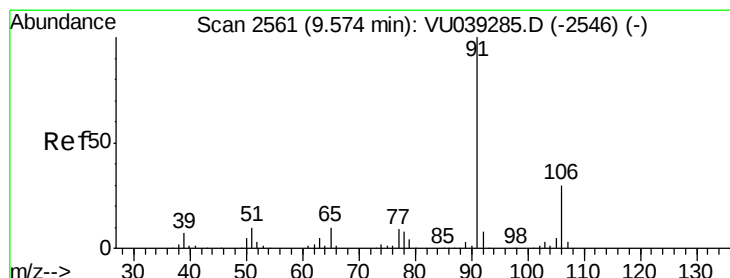
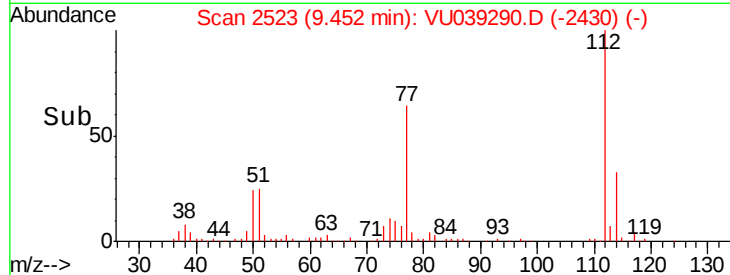
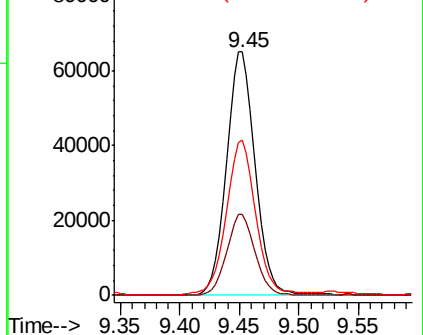
#51
Chlorobenzene
Concen: 4.914 ug/L
RT: 9.45 min Scan# 2523
Delta R.T. 0.00 min
Lab File: VU039290.D
Acq: 06 Jul 2020 14:51

Instrument :
MSVOA_U
ClientSampleId :
H4296MSD

Tot Ion:112 Resp: 108595
Ion Ratio Lower Upper
112 100
114 33.2 21.9 40.7
77 63.5 48.2 72.4

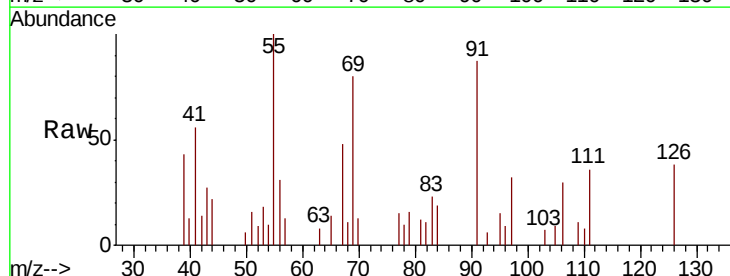


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 114.05 (113.75 to 114.75): V
Ion 77.10 (76.80 to 77.80): V

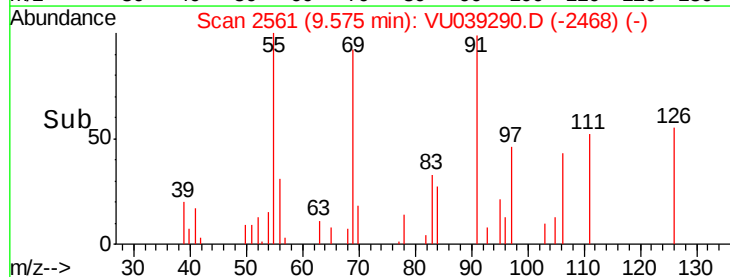
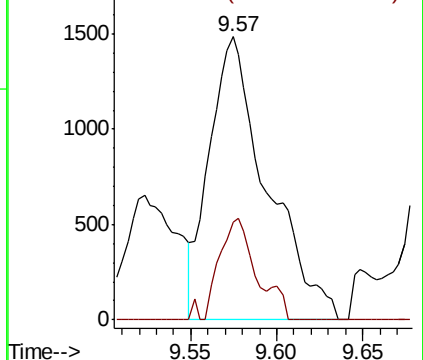


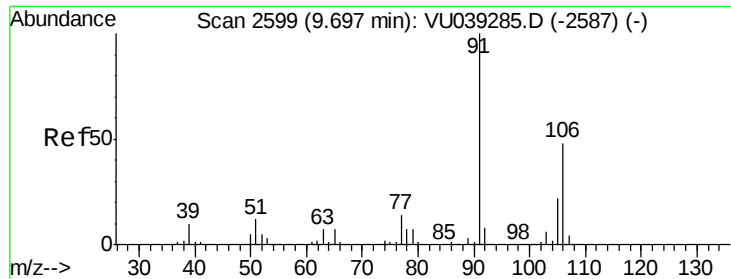
#52
Ethylbenzene
Concen: 0.087 ug/L
RT: 9.57 min Scan# 2561
Delta R.T. 0.00 min
Lab File: VU039290.D
Acq: 06 Jul 2020 14:51

Tgt Ion: 91 Resp: 3464
Ion Ratio Lower Upper
91 100
106 34.7 22.1 41.1



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





#53

m,p-Xylene

Concen: 0.085 ug/L

RT: 9.70 min Scan# 2601

Delta R.T. 0.01 min

Lab File: VU039290.D

Acq: 06 Jul 2020 14:51

Instrument :

MSVOA_U

ClientSampleId :

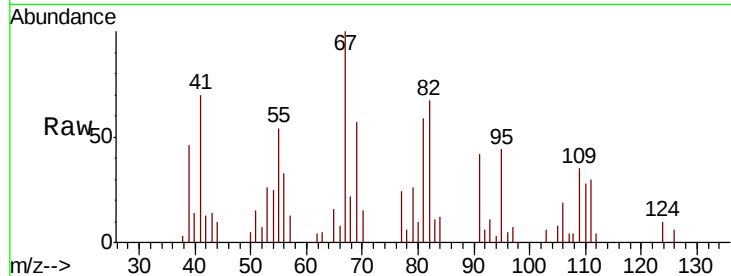
H4296MSD

Tot Ion:106 Resp: 1270

Ion Ratio Lower Upper

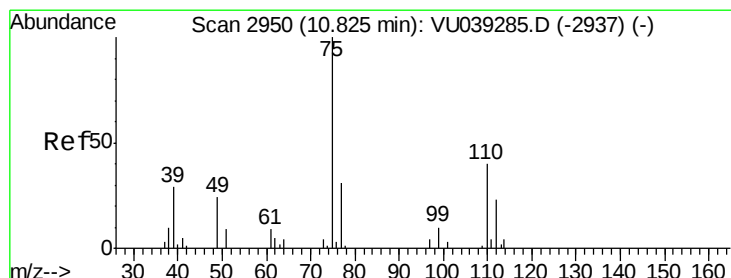
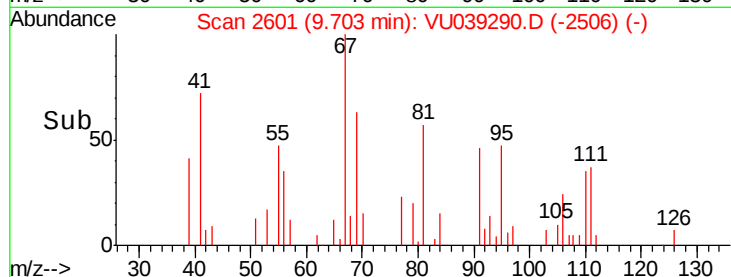
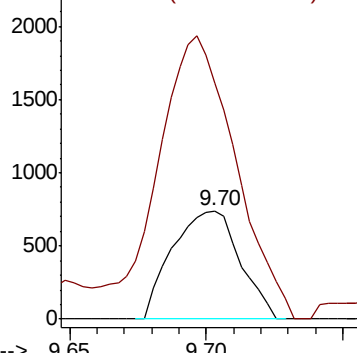
106 100

91 217.8 146.6 272.2



Abundance Ion 106.15 (105.85 to 106.85): VU039285.D (-2587) (-)

Ion 91.15 (90.85 to 91.85): VU039285.D (-2587) (-)



#59

1,2,3-Trichloropropane

Concen: 1.238 ug/L

RT: 11.81 min Scan# 3256

Delta R.T. 0.98 min

Lab File: VU039290.D

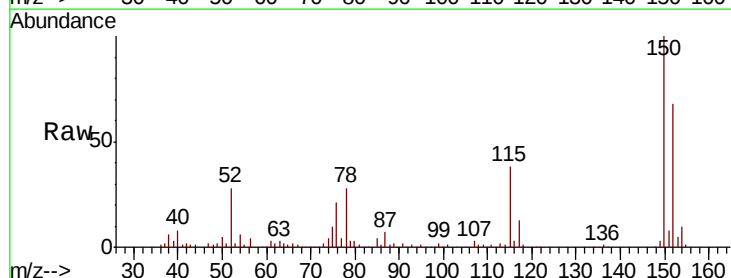
Acq: 06 Jul 2020 14:51

Tgt Ion: 75 Resp: 8520

Ion Ratio Lower Upper

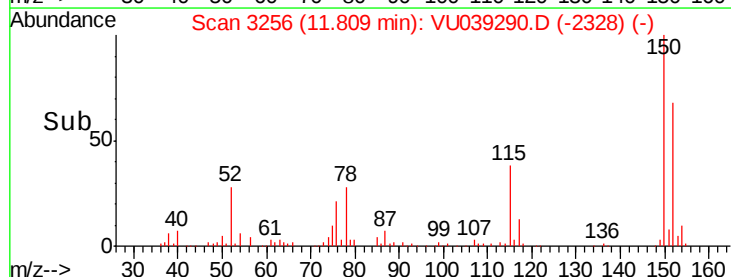
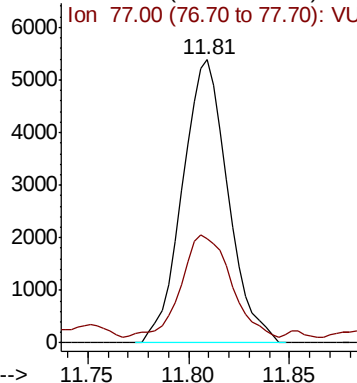
75 100

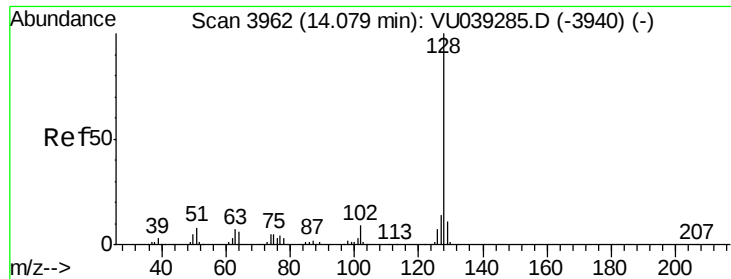
77 39.3 27.7 41.5



Abundance Ion 75.00 (74.70 to 75.70): VU039285.D (-2937) (-)

Ion 77.00 (76.70 to 77.70): VU039285.D (-2937) (-)





#69

Naphthalene

Concen: 0.116 ug/L

RT: 14.08 min Scan# 3962

Delta R.T. 0.00 min

Lab File: VU039290.D

Acq: 06 Jul 2020 14:51

Instrument :

MSVOA_U

ClientSampleId :

H4296MSD

Tot Ion:128 Resp: 2466

Ion Ratio Lower Upper

128 100

129 57.7 8.3 12.5#

127 17.0 10.7 16.1#

