

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU110920\
 Data File : VU041149.D
 Acq On : 09 Nov 2020 18:27
 Operator : SY/MD
 Sample : L4646-16
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 GB0W0

Quant Time: Nov 10 01:14:21 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102620WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Nov 10 01:04:12 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	71251	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	69317	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	32590	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	17740	2.96	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	59.20%
7) Chloroethane-d5	1.92	69	17304	3.76	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	75.20%
11) 1,1-Dichloroethene-d2	2.58	63	29636	2.52	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	50.40%#
20) 2-Butanone-d5	4.65	46	104867	53.20	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	106.40%
24) Chloroform-d	5.08	84	46911	4.44	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	88.80%
26) 1,2-Dichloroethane-d4	5.72	65	30109	4.59	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	91.80%
32) Benzene-d6	5.74	84	83059	4.48	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	89.60%
36) 1,2-Dichloropropane-d6	6.70	67	30546	5.06	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	101.20%
41) Toluene-d8	7.91	98	71401	4.25	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	85.00%
43) trans-1,3-Dichloropropene-	8.19	79	11224	4.29	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	85.80%
46) 2-Hexanone-d5	8.64	63	73239	51.99	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	103.98%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	27580	4.92	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	98.40%
64) 1,2-Dichlorobenzene-d4	12.19	152	31341	5.48	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	109.60%

Target Compounds

					Ovalue
3) Chloromethane	1.61	50	298	0.044 ug/L #	43
5) Vinyl chloride	1.61	62	249	0.037 ug/L #	1
13) Acetone	2.66	43	1561	1.158 ug/L	72
15) Methyl Acetate	3.06	43	2131	0.691 ug/L #	53
18) trans-1,2-Dichloroethene	3.37	96	1577	0.308 ug/L	93
22) cis-1,2-Dichloroethene	4.69	96	66081	12.525 ug/L	100
30) Cyclohexane	5.41	56	2231	0.267 ug/L	90
33) Benzene	5.79	78	21980	1.061 ug/L	100
34) Trichloroethene	6.56	95	746830	141.687 ug/L	98
35) Methylcyclohexane	6.77	83	587	0.075 ug/L #	69
37) 1,2-Dichloropropane	6.70	63	3452	0.616 ug/L #	86
39) cis-1,3-Dichloropropene	7.57	75	763	0.099 ug/L #	53
44) trans-1,3-Dichloropropene	8.19	75	548	0.076 ug/L #	59
45) 1,1,2-Trichloroethane	8.40	97	576	0.138 ug/L	97
47) Tetrachloroethene	8.56	164	1750	0.452 ug/L	88
49) Dibromochloromethane	8.56	129	1809	0.373 ug/L #	11
52) Ethylbenzene	9.57	91	1681	0.076 ug/L #	82

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Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Nov 10 01:04:12 2020
Response via : Initial Calibration

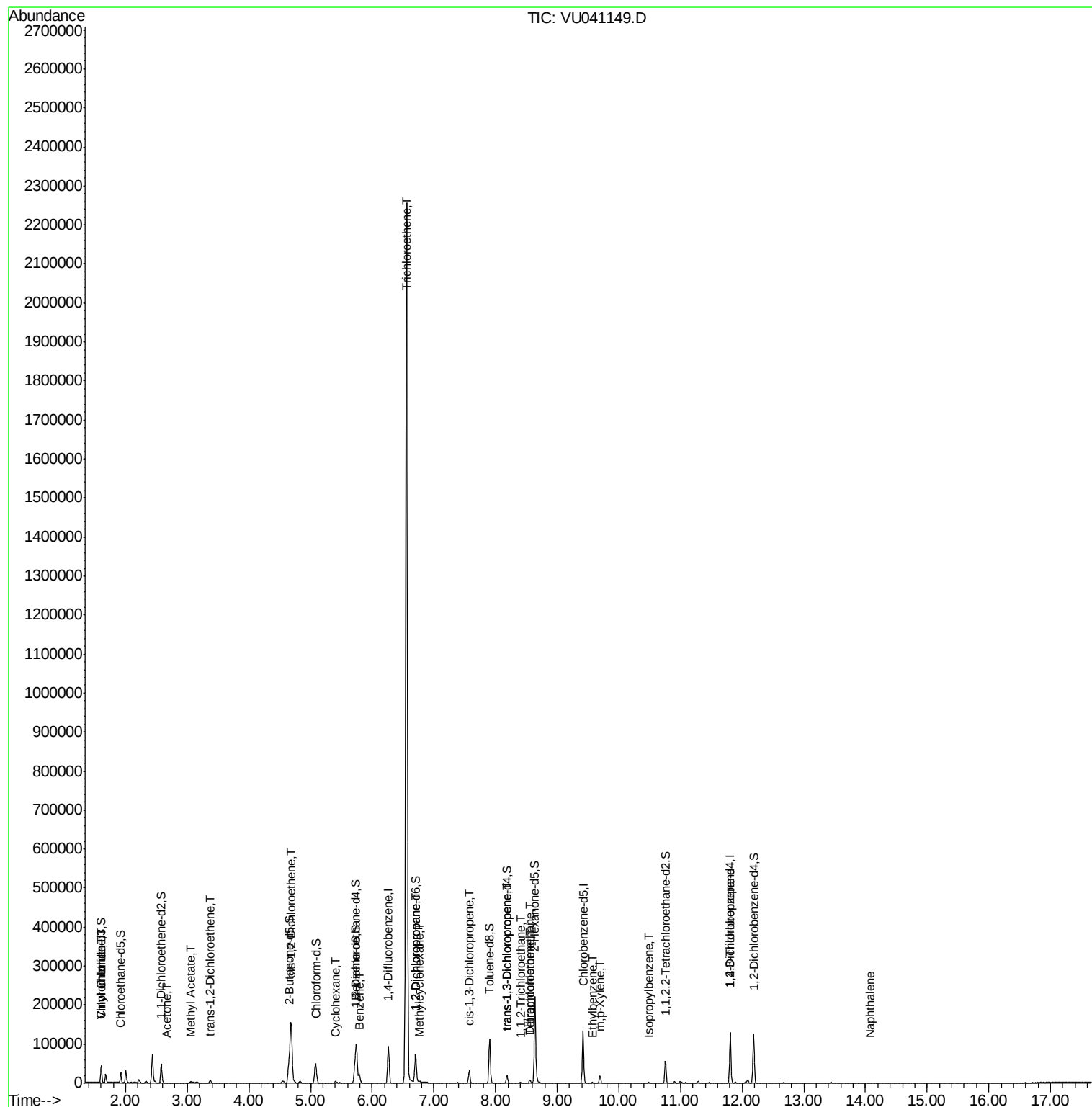
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
53) m,p-Xylene	9.69	106	4837	0.600	ug/L	95
56) Isopropylbenzene	10.48	105	1282	0.063	ug/L #	92
59) 1,2,3-Trichloropropane	11.81	75	4604	1.102	ug/L	95
69) Naphthalene	14.08	128	661	0.068	ug/L #	73

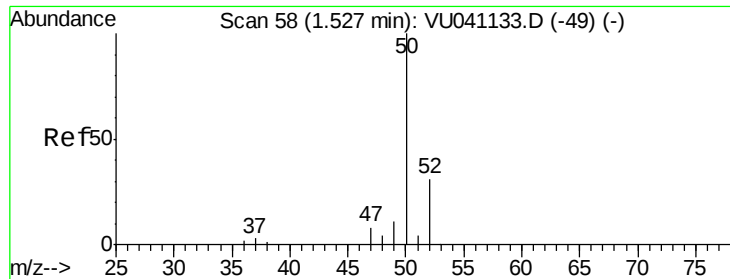
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.044 ug/L

RT: 1.61 min Scan# 83

Delta R.T. 0.08 min

Lab File: VU041149.D

Acq: 09 Nov 2020 18:27

Instrument :

MSVOA_U

ClientSampleId :

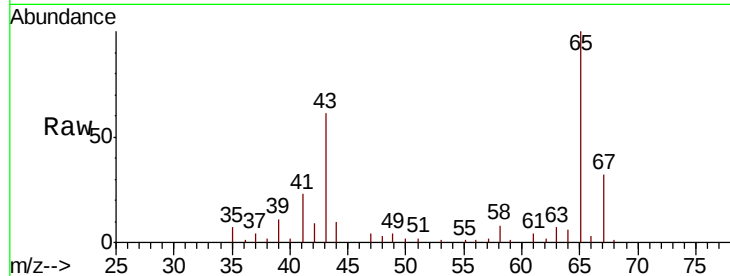
GB0W0

Tot Ion: 50 Resp: 298

Ion Ratio Lower Upper

50 100

52 0.0 22.4 41.6#



Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0

1.61

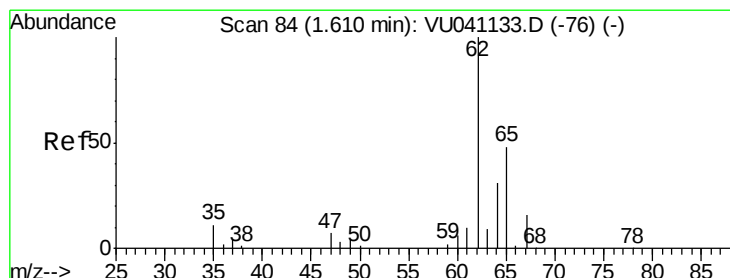
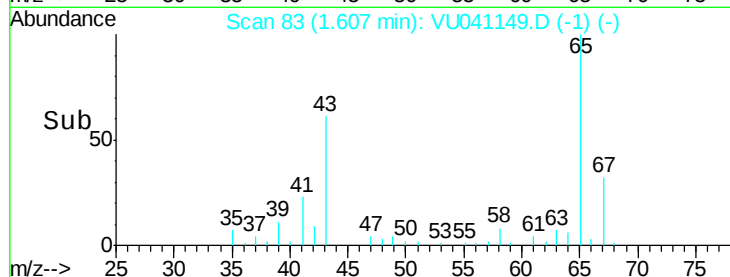
300

200

100

0

Time-->



#5

Vinyl chloride

Concen: 0.037 ug/L

RT: 1.61 min Scan# 84

Delta R.T. -0.00 min

Lab File: VU041149.D

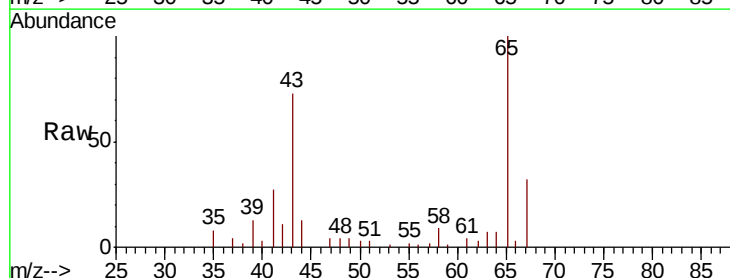
Acq: 09 Nov 2020 18:27

Tgt Ion: 62 Resp: 249

Ion Ratio Lower Upper

62 100

64 284.2 22.7 42.3#



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0

1000

800

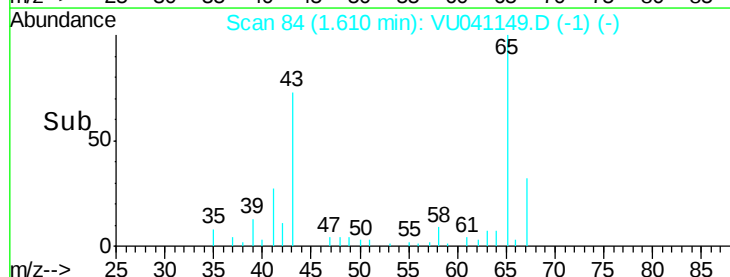
600

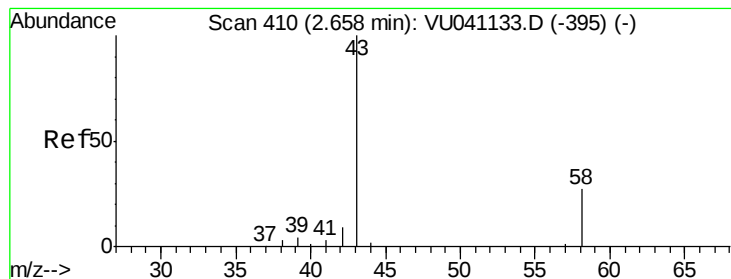
400

200

0

Time-->





#13

Acetone

Concen: 1.158 ug/L

RT: 2.66 min Scan# 412

Delta R.T. 0.01 min

Lab File: VU041149.D

Acq: 09 Nov 2020 18:27

Instrument :

MSVOA_U

ClientSampleId :

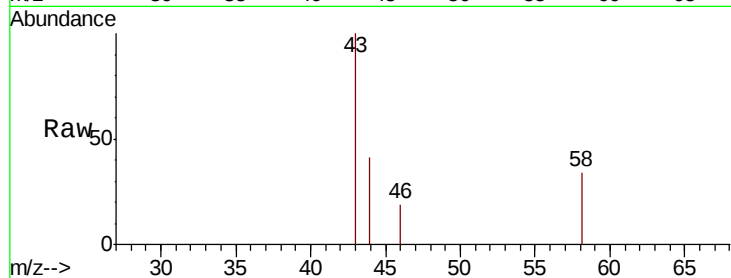
GB0W0

Tot Ion: 43 Resp: 1561

Ion Ratio Lower Upper

43 100

58 23.8 0.0 25.4



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0

2.66

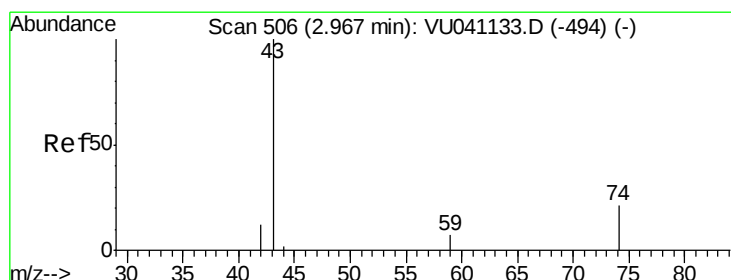
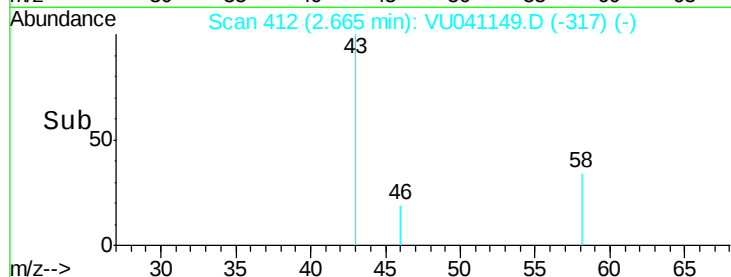
600

400

200

0

Time-->



#15

Methyl Acetate

Concen: 0.691 ug/L

RT: 3.06 min Scan# 534

Delta R.T. 0.09 min

Lab File: VU041149.D

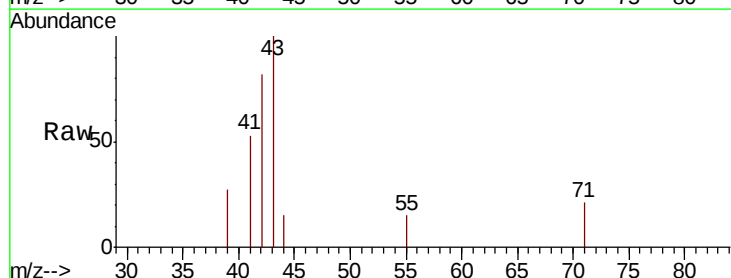
Acq: 09 Nov 2020 18:27

Tgt Ion: 43 Resp: 2131

Ion Ratio Lower Upper

43 100

74 0.0 18.3 27.5#



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 74.05 (73.75 to 74.75): VU0

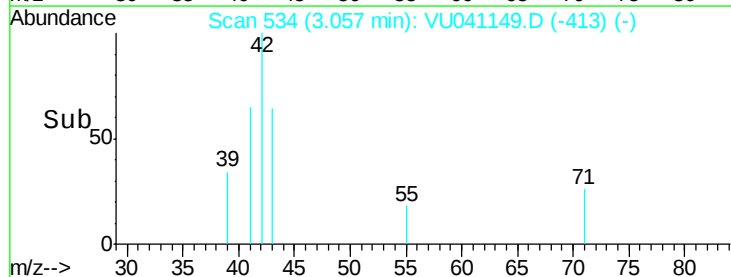
3.06

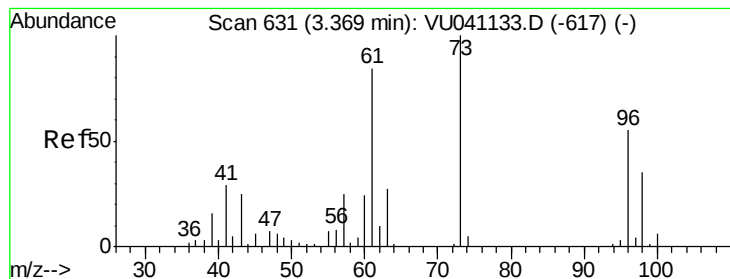
1000

500

0

Time-->





#18

trans-1,2-Dichloroethene

Concen: 0.308 ug/L

RT: 3.37 min Scan# 631

Delta R.T. -0.00 min

Lab File: VU041149.D

Acq: 09 Nov 2020 18:27

Instrument :

MSVOA_U

ClientSampled :

GB0W0

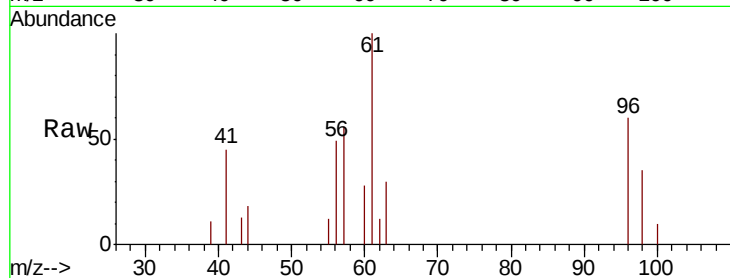
Tot Ion: 96 Resp: 1577

Ion Ratio Lower Upper

96 100

61 166.8 110.9 205.9

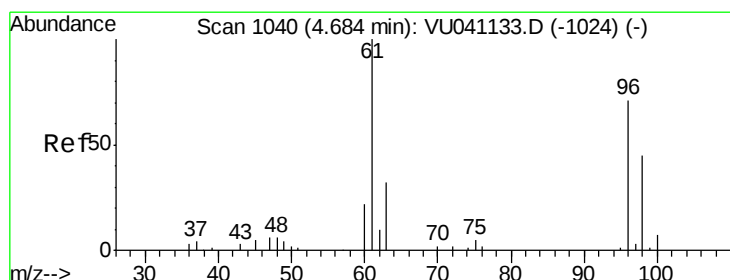
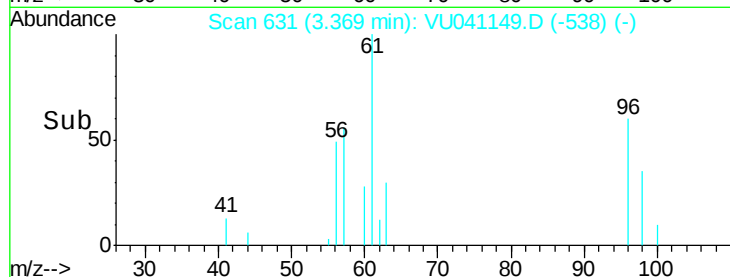
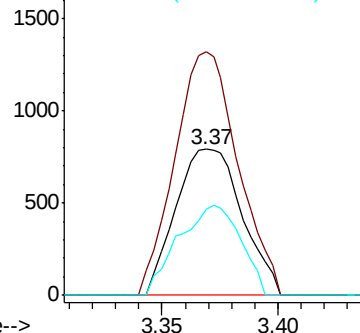
98 58.6 45.4 84.2



Abundance Ion 96.00 (95.70 to 96.70): VU041133.D (-617) (-)

Ion 61.05 (60.75 to 61.75): VU041133.D (-617) (-)

Ion 97.95 (97.65 to 98.65): VU041133.D (-617) (-)



#22

cis-1,2-Dichloroethene

Concen: 12.525 ug/L

RT: 4.69 min Scan# 1041

Delta R.T. 0.00 min

Lab File: VU041149.D

Acq: 09 Nov 2020 18:27

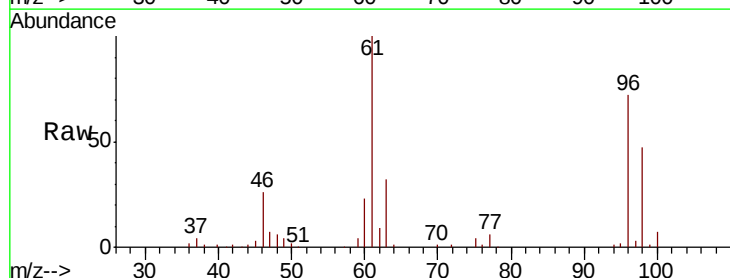
Tgt Ion: 96 Resp: 66081

Ion Ratio Lower Upper

96 100

61 139.1 97.2 180.4

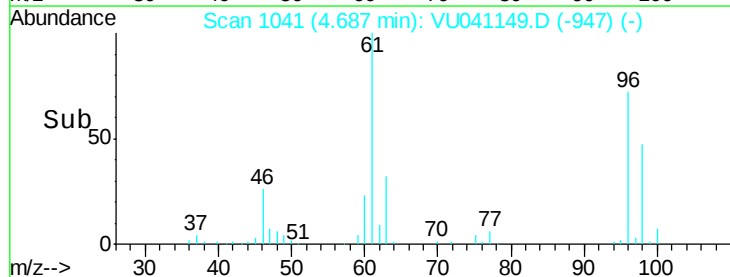
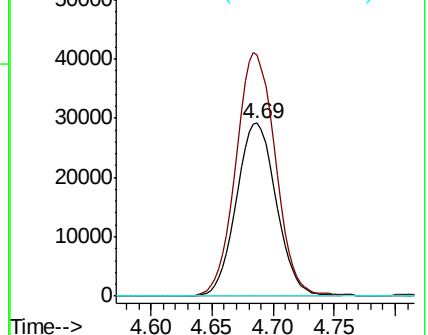
68 0.0 0.0 0.0

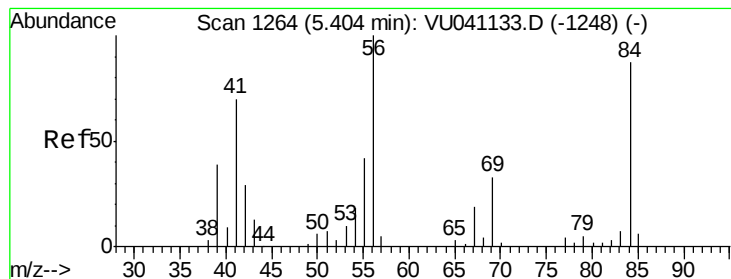


Abundance Ion 96.00 (95.70 to 96.70): VU041133.D (-1024) (-)

Ion 61.05 (60.75 to 61.75): VU041133.D (-1024) (-)

Ion 68.15 (67.85 to 68.85): VU041133.D (-1024) (-)





#30

Cyclohexane

Concen: 0.267 ug/L

RT: 5.41 min Scan# 1265

Delta R.T. 0.00 min

Lab File: VU041149.D

Acq: 09 Nov 2020 18:27

Instrument :

MSVOA_U

ClientSampleId :

GB0W0

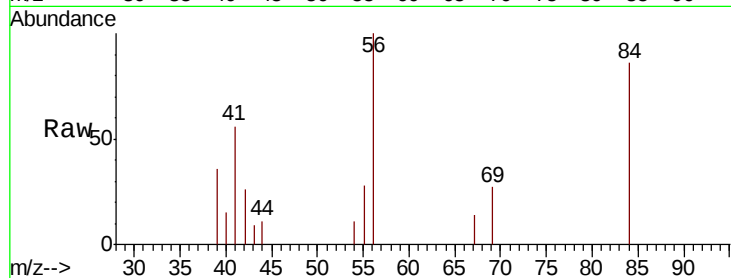
Tot Ion: 56 Resp: 2231

Ion Ratio Lower Upper

56 100

69 23.8 22.8 34.2

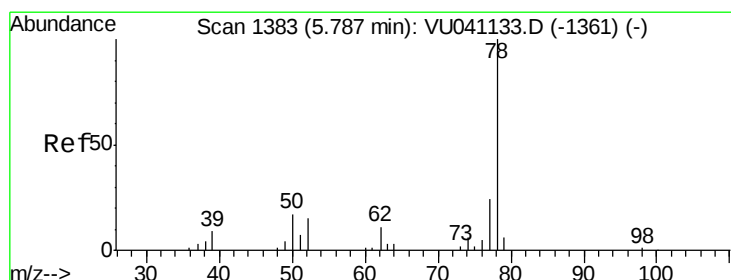
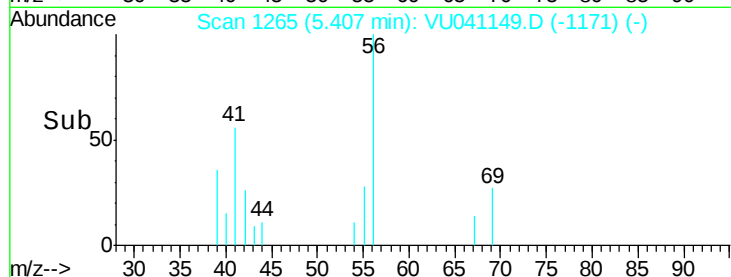
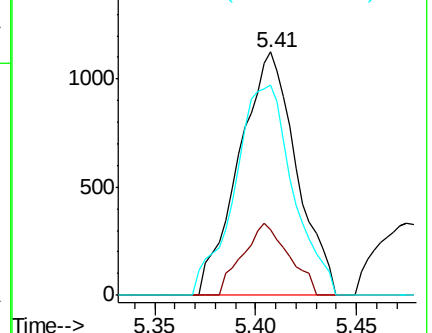
84 88.2 63.6 95.4



Abundance Ion 56.10 (55.80 to 56.80): VU041133.D (-1248) (-)

Ion 69.15 (68.85 to 69.85): VU041133.D (-1248) (-)

Ion 84.15 (83.85 to 84.85): VU041133.D (-1248) (-)



#33

Benzene

Concen: 1.061 ug/L

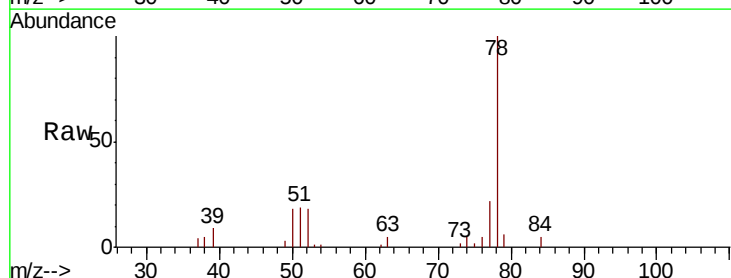
RT: 5.79 min Scan# 1383

Delta R.T. -0.00 min

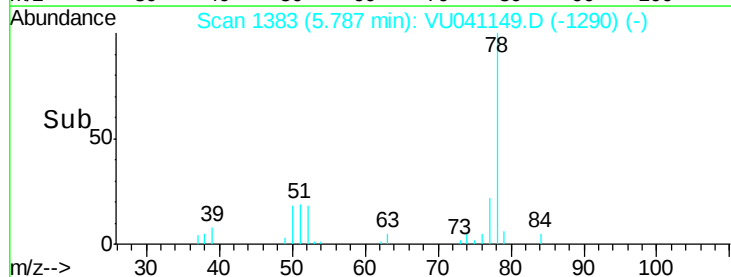
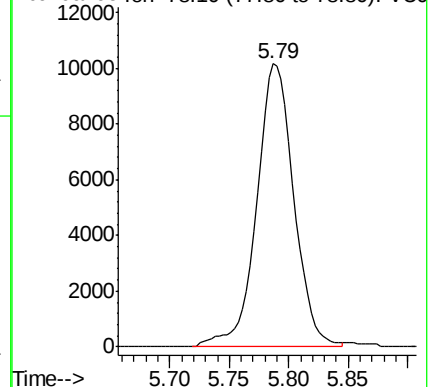
Lab File: VU041149.D

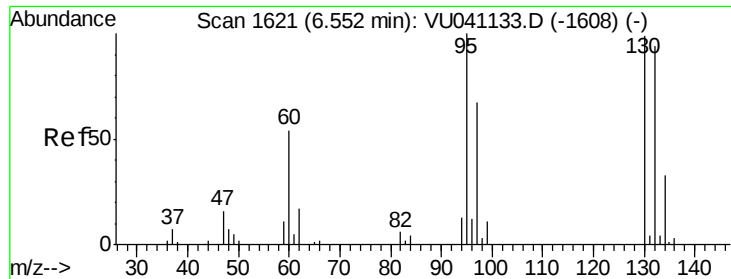
Acq: 09 Nov 2020 18:27

Tgt Ion: 78 Resp: 21980



Abundance Ion 78.10 (77.80 to 78.80): VU041133.D (-1361) (-)

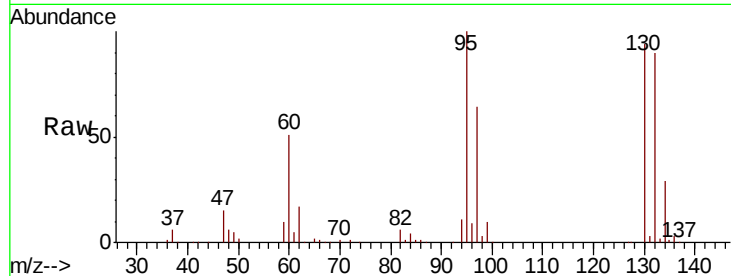




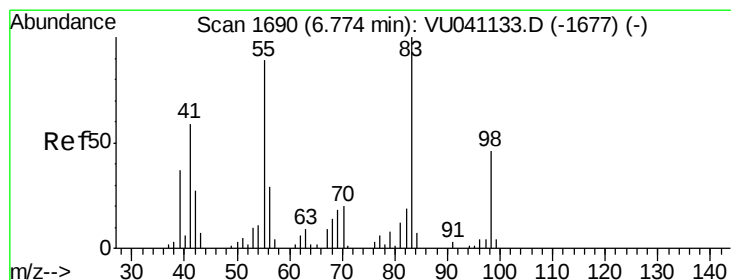
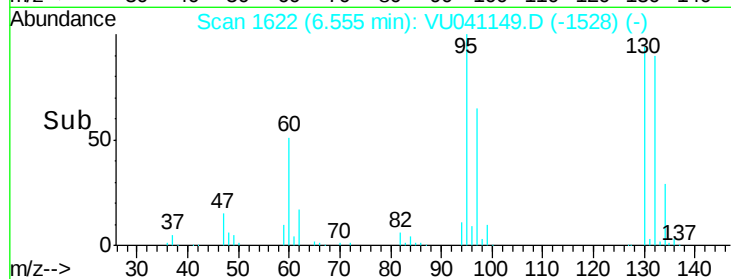
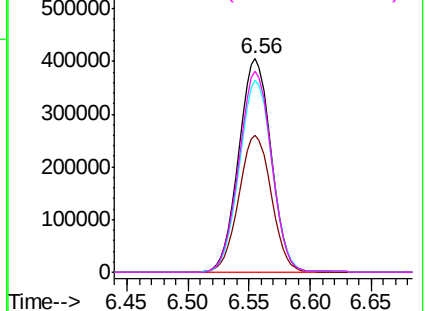
#34
 Trichloroethene
 Concen: 141.687 ug/L
 RT: 6.56 min Scan# 1622
 Delta R.T. 0.00 min
 Lab File: VU041149.D
 Acq: 09 Nov 2020 18:27

Instrument :
 MSVOA_U
 ClientSampleId :
 GB0W0

Tot Ion: 95 Resp: 746830
 Ion Ratio Lower Upper
 95 100
 97 64.4 45.6 84.6
 132 89.8 64.8 120.4
 130 94.3 64.8 120.4

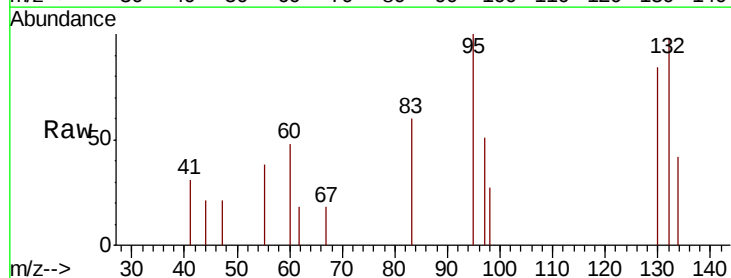


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 96.95 (96.65 to 97.65): VU0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

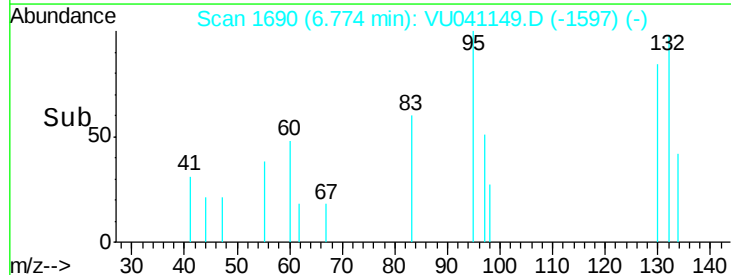
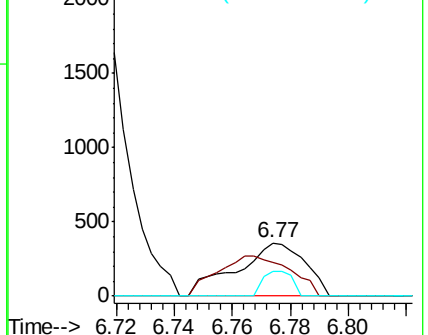


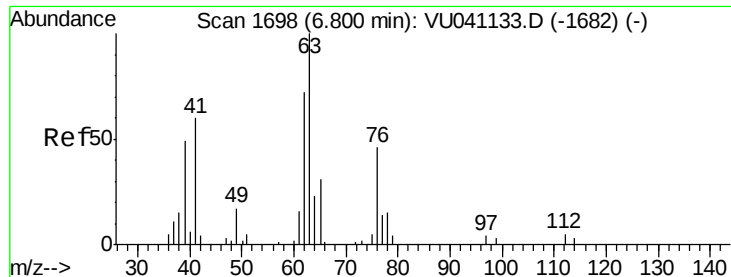
#35
 Methylcyclohexane
 Concen: 0.075 ug/L
 RT: 6.77 min Scan# 1690
 Delta R.T. -0.00 min
 Lab File: VU041149.D
 Acq: 09 Nov 2020 18:27

Tgt Ion: 83 Resp: 587
 Ion Ratio Lower Upper
 83 100
 55 79.9 72.0 108.0
 98 0.0 36.6 55.0#



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

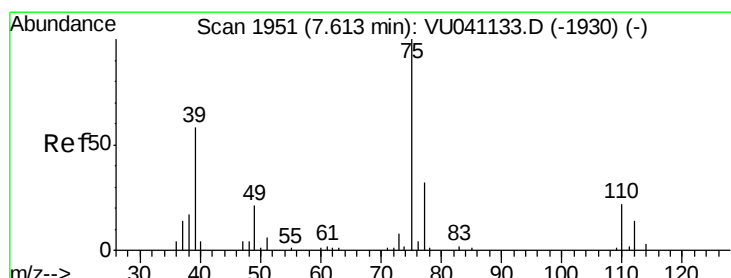
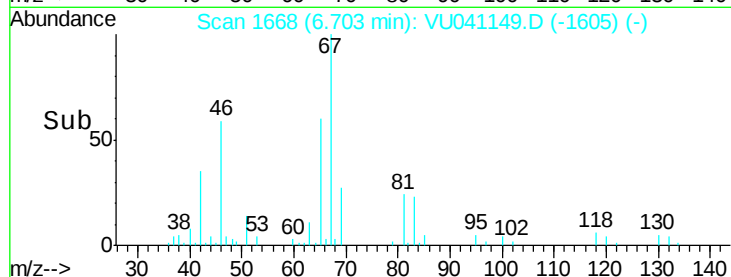
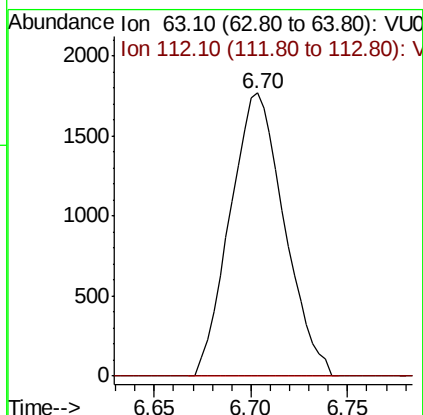
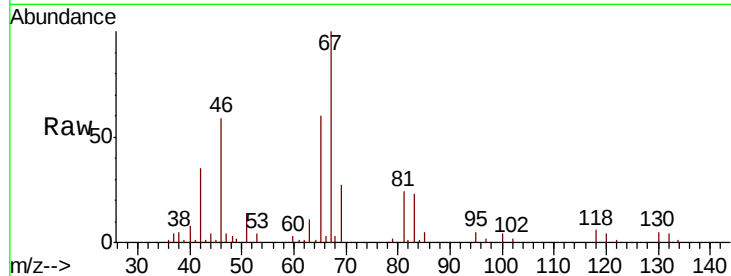




#37
 1,2-Dichloropropane
 Concen: 0.616 ug/L
 RT: 6.70 min Scan# 1668
 Delta R.T. -0.10 min
 Lab File: VU041149.D
 Acq: 09 Nov 2020 18:27

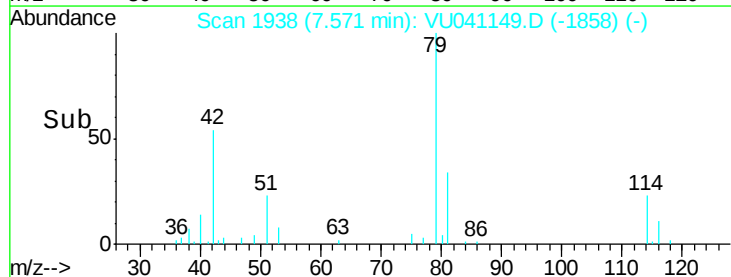
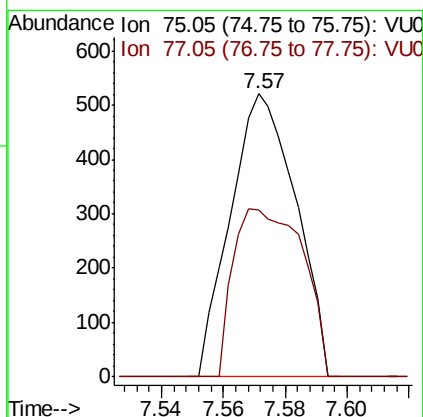
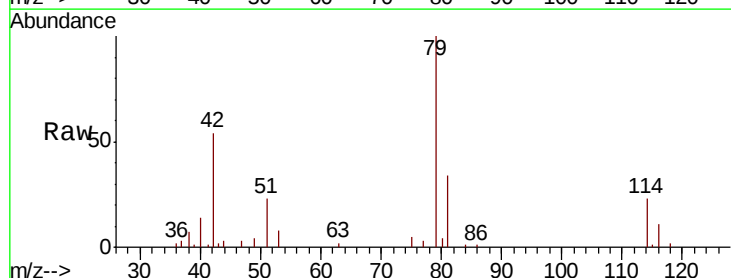
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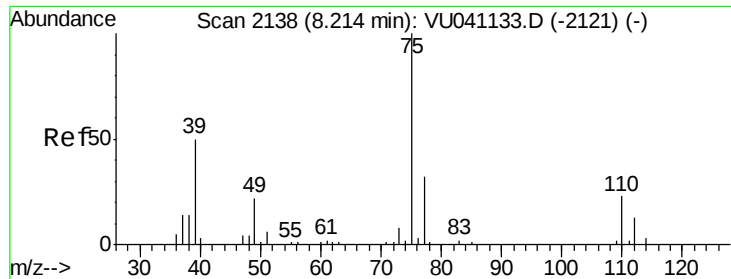
Tot Ion: 63 Resp: 3452
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.6 5.4#



#39
 cis-1,3-Dichloropropene
 Concen: 0.099 ug/L
 RT: 7.57 min Scan# 1938
 Delta R.T. -0.04 min
 Lab File: VU041149.D
 Acq: 09 Nov 2020 18:27

Tgt Ion: 75 Resp: 763
 Ion Ratio Lower Upper
 75 100
 77 58.9 22.7 42.3#

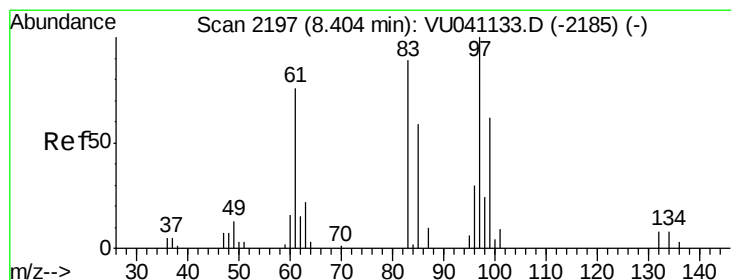
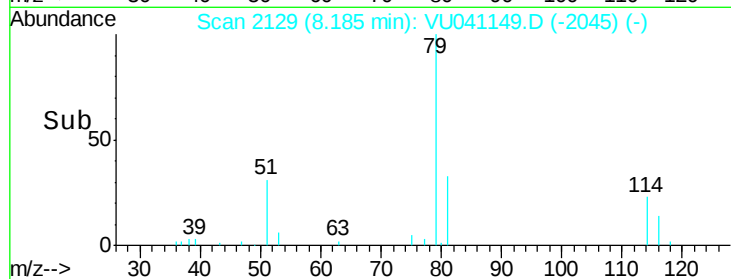
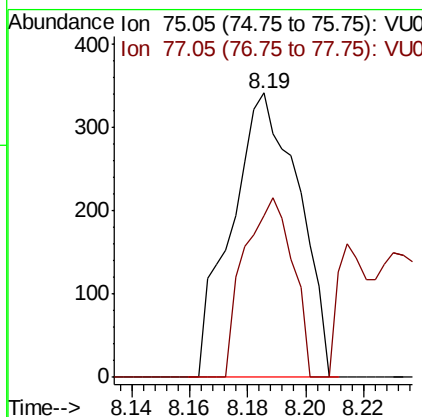
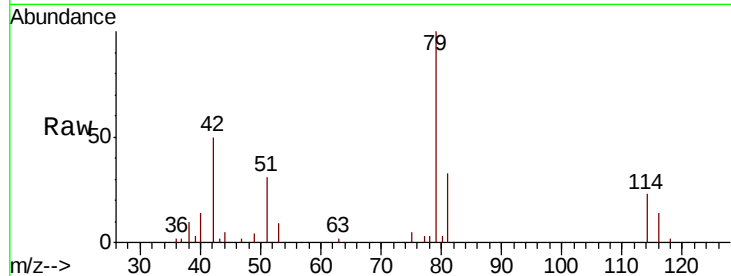




#44
trans-1,3-Dichloropropene
Concen: 0.076 ug/L
RT: 8.19 min Scan# 2129
Delta R.T. -0.03 min
Lab File: VU041149.D
Acq: 09 Nov 2020 18:27

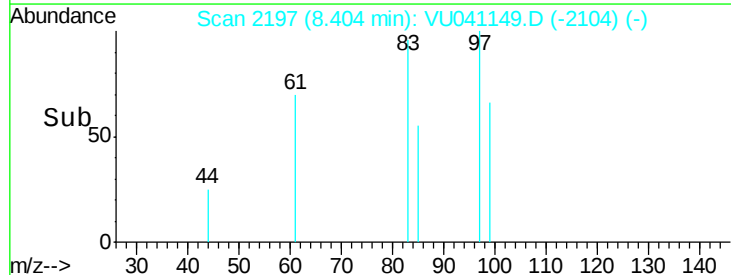
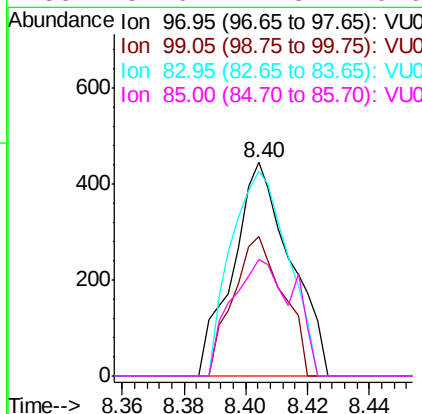
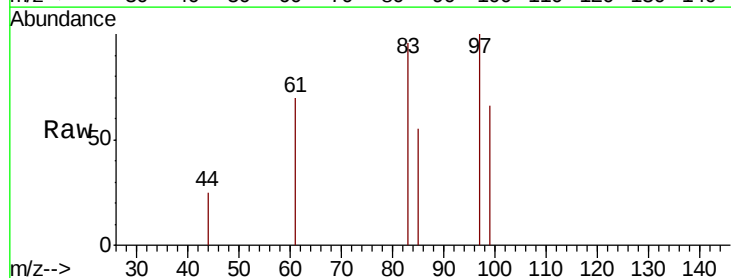
Instrument :
MSVOA_U
ClientSampleId :
GB0W0

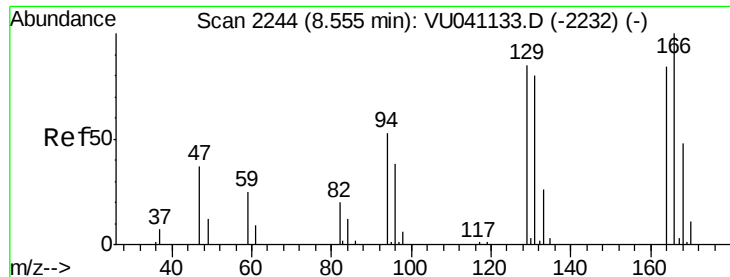
Tot Ion: 75 Resp: 548
Ion Ratio Lower Upper
75 100
77 56.6 23.3 43.3#



#45
1,1,2-Trichloroethane
Concen: 0.138 ug/L
RT: 8.40 min Scan# 2197
Delta R.T. -0.00 min
Lab File: VU041149.D
Acq: 09 Nov 2020 18:27

Tgt Ion: 97 Resp: 576
Ion Ratio Lower Upper
97 100
99 65.6 45.8 85.2
83 96.0 67.9 126.1
85 54.6 42.8 79.6





#47

Tetrachloroethene

Concen: 0.452 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. 0.00 min

Lab File: VU041149.D

Acq: 09 Nov 2020 18:27

Instrument :

MSVOA_U

ClientSampleId :

GB0W0

Tot Ion:164 Resp: 1750

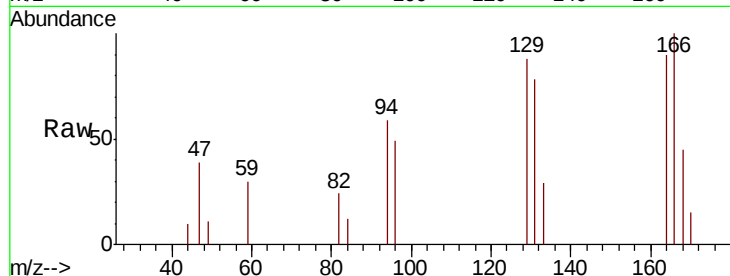
Ion Ratio Lower Upper

164 100

129 97.5 70.3 130.7

131 86.6 70.8 131.4

166 111.1 92.0 170.8

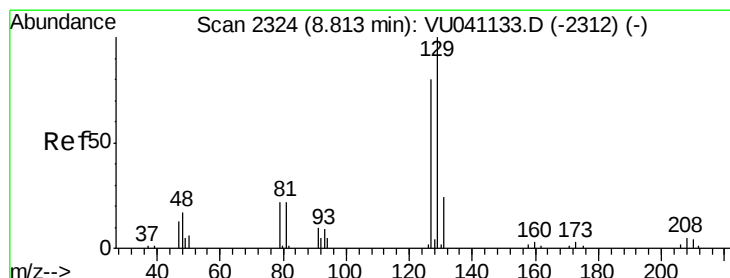
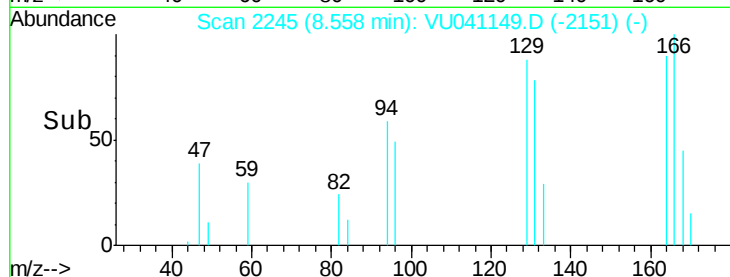
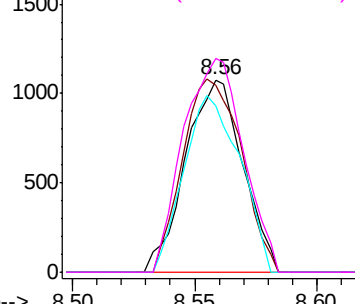


Abundance Ion 163.90 (163.60 to 164.60): V

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: 0.373 ug/L

RT: 8.56 min Scan# 2244

Delta R.T. -0.26 min

Lab File: VU041149.D

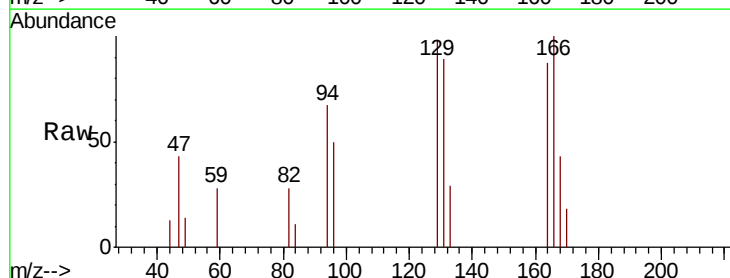
Acq: 09 Nov 2020 18:27

Tgt Ion:129 Resp: 1809

Ion Ratio Lower Upper

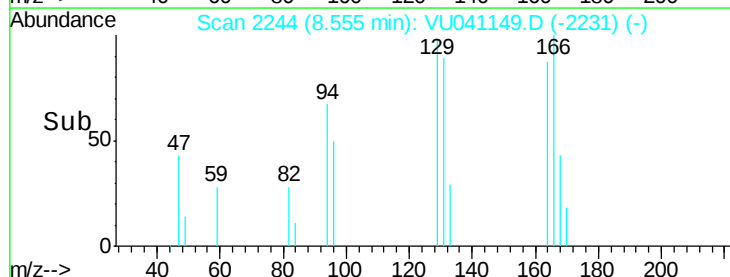
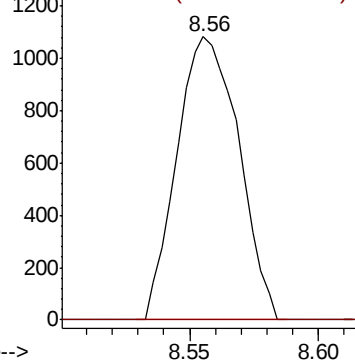
129 100

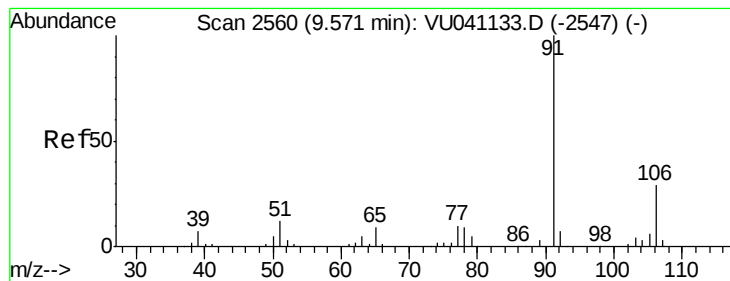
127 0.0 53.4 99.2#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V





#52

Ethylbenzene

Concen: 0.076 ug/L

RT: 9.57 min Scan# 2559

Delta R.T. -0.00 min

Lab File: VU041149.D

Acq: 09 Nov 2020 18:27

Instrument :

MSVOA_U

ClientSampleId :

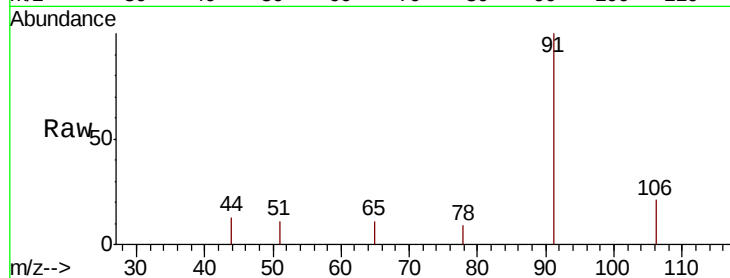
GB0W0

Tot Ion: 91 Resp: 1681

Ion Ratio Lower Upper

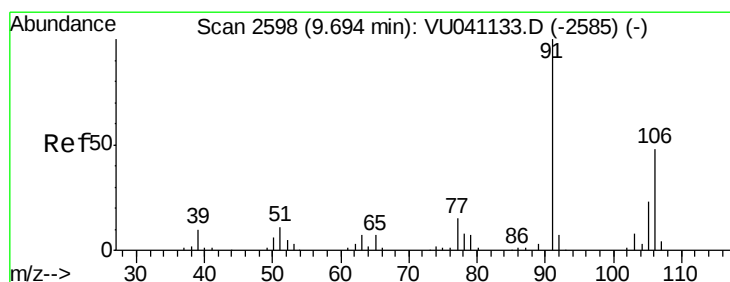
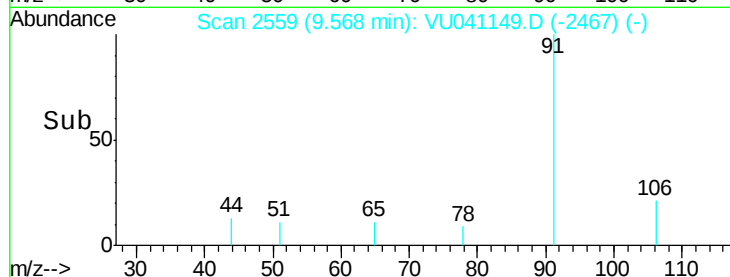
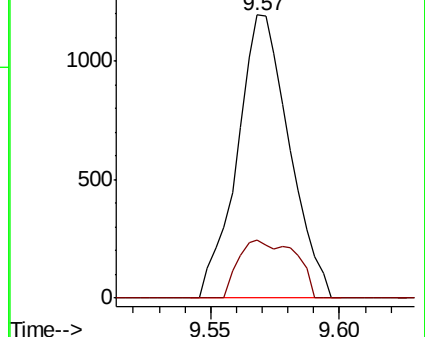
91 100

106 20.5 21.0 39.0#



Abundance Ion 91.15 (90.85 to 91.85): VU041149.D (-2559) (-)

Ion 106.15 (105.85 to 106.85): VU041149.D (-2559) (-)



#53

m,p-Xylene

Concen: 0.600 ug/L

RT: 9.69 min Scan# 2598

Delta R.T. -0.00 min

Lab File: VU041149.D

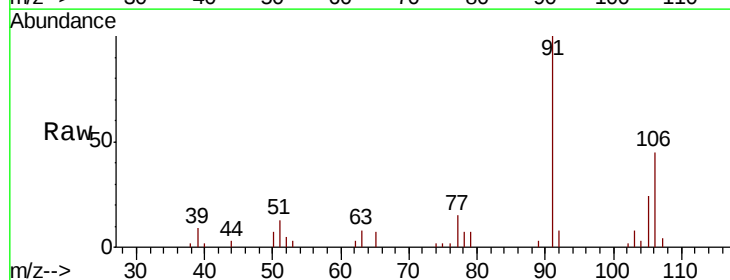
Acq: 09 Nov 2020 18:27

Tgt Ion: 106 Resp: 4837

Ion Ratio Lower Upper

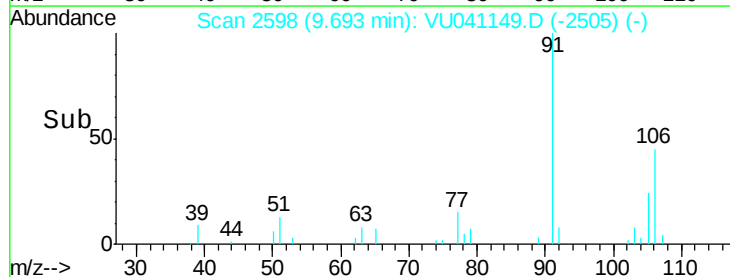
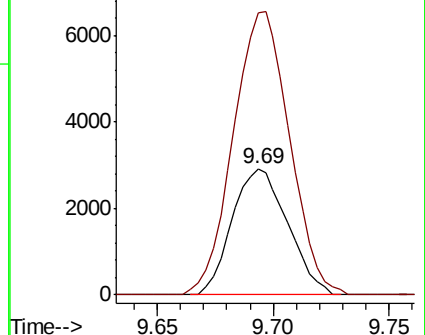
106 100

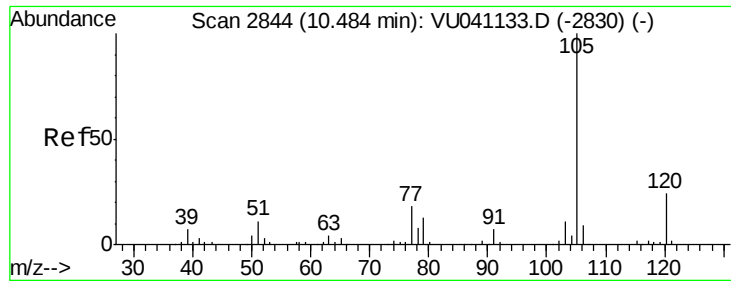
91 223.6 150.9 280.3



Abundance Ion 106.15 (105.85 to 106.85): VU041149.D (-2598) (-)

Ion 91.15 (90.85 to 91.85): VU041149.D (-2598) (-)





#56

Isopropylbenzene

Concen: 0.063 ug/L

RT: 10.48 min Scan# 2843

Delta R.T. -0.00 min

Lab File: VU041149.D

Acq: 09 Nov 2020 18:27

Instrument :

MSVOA_U

ClientSampled :

GB0W0

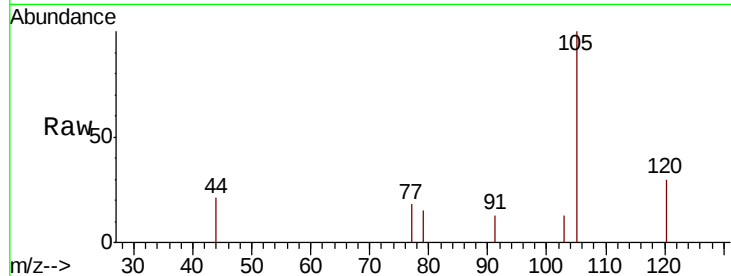
Tot Ion: 105 Resp: 1282

Ion Ratio Lower Upper

105 100

120 23.6 20.7 31.1

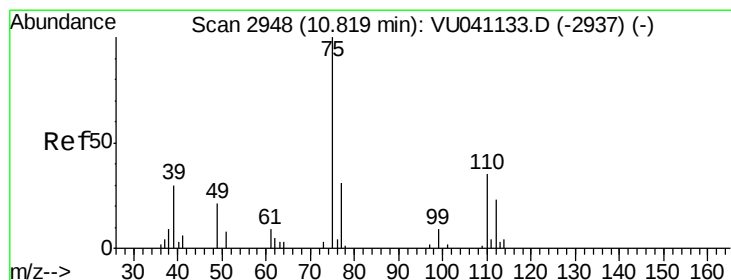
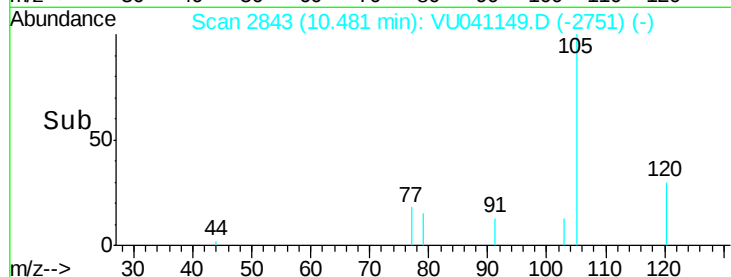
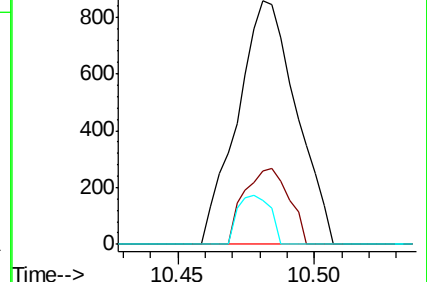
77 11.3 13.8 20.6#



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#59

1,2,3-Trichloropropane

Concen: 1.102 ug/L

RT: 11.81 min Scan# 3255

Delta R.T. 0.99 min

Lab File: VU041149.D

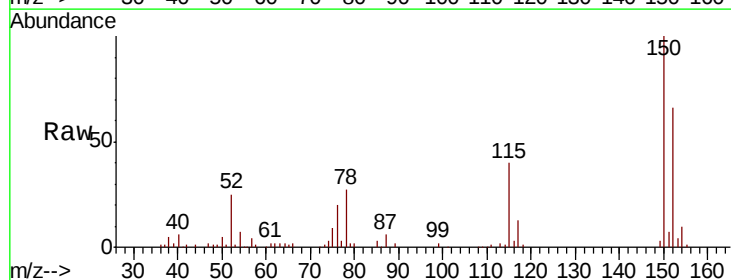
Acq: 09 Nov 2020 18:27

Tgt Ion: 75 Resp: 4604

Ion Ratio Lower Upper

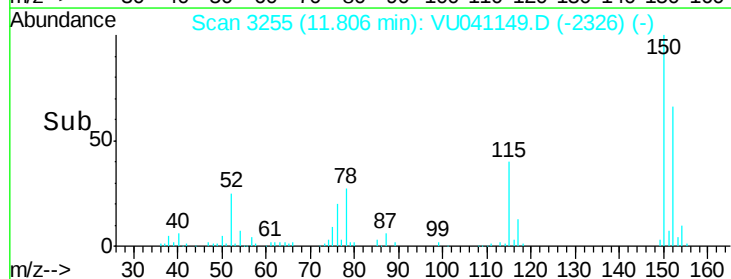
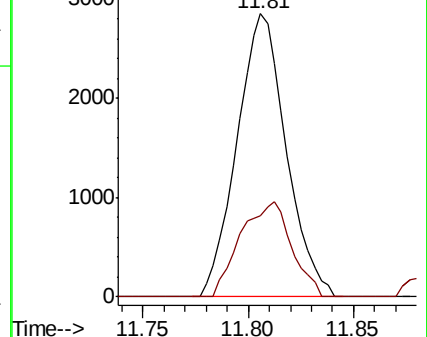
75 100

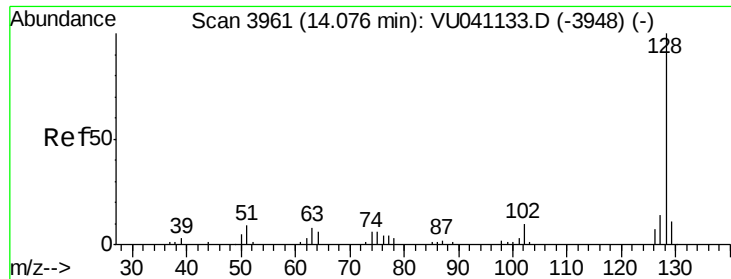
77 34.8 25.7 38.5



Abundance Ion 75.00 (74.70 to 75.70): V

Ion 77.00 (76.70 to 77.70): V





#69

Naphthalene

Concen: 0.068 ug/L

RT: 14.08 min Scan# 3962

Delta R.T. 0.00 min

Lab File: VU041149.D

Acq: 09 Nov 2020 18:27

Instrument :

MSVOA_U

ClientSampleId :

GB0W0

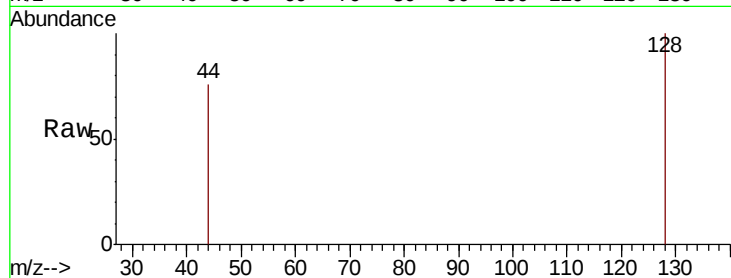
Tot Ion:128 Resp: 661

Ion Ratio Lower Upper

128 100

129 0.0 8.7 13.1#

127 3.5 10.8 16.2#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

