

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU111920\
 Data File : VU041344.D
 Acq On : 19 Nov 2020 15:31
 Operator : SY/MD
 Sample : L4790-06 40X
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 H4398

Quant Time: Nov 20 05:58:06 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR111620WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Nov 20 05:56:10 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.31	114	64926	5.00	ug/L	0.05
28) Chlorobenzene-d5	9.43	117	65227	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	28874	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.64	65	13854	2.90	ug/L	0.03
Spiked Amount	5.000	Range	40 - 130	Recovery	=	58.00%
7) Chloroethane-d5	1.95	69	12842	3.14	ug/L	0.03
Spiked Amount	5.000	Range	65 - 130	Recovery	=	62.80%#
11) 1,1-Dichloroethene-d2	2.61	63	22799	2.31	ug/L	0.03
Spiked Amount	5.000	Range	60 - 125	Recovery	=	46.20%#
20) 2-Butanone-d5	4.62	46	3795	1.93	ug/L	-0.04
Spiked Amount	50.000	Range	40 - 130	Recovery	=	3.86%#
24) Chloroform-d	5.13	84	42773	4.14	ug/L	0.05
Spiked Amount	5.000	Range	70 - 125	Recovery	=	82.80%
26) 1,2-Dichloroethane-d4	5.78	65	25970	3.85	ug/L	0.06
Spiked Amount	5.000	Range	70 - 130	Recovery	=	77.00%
32) Benzene-d6	5.80	84	65679	3.74	ug/L	0.06
Spiked Amount	5.000	Range	70 - 125	Recovery	=	74.80%
36) 1,2-Dichloropropane-d6	6.74	67	24757	4.09	ug/L	0.04
Spiked Amount	5.000	Range	60 - 140	Recovery	=	81.80%
41) Toluene-d8	7.92	98	52361	3.16	ug/L	0.02
Spiked Amount	5.000	Range	70 - 130	Recovery	=	63.20%#
43) trans-1,3-Dichloropropene-	8.20	79	9354	3.59	ug/L	0.02
Spiked Amount	5.000	Range	55 - 130	Recovery	=	71.80%
46) 2-Hexanone-d5	8.66	63	45723	32.82	ug/L	0.02
Spiked Amount	50.000	Range	45 - 130	Recovery	=	65.64%
57) 1,1,2,2-Tetrachloroethane-	10.76	84	23211	3.95	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	79.00%
64) 1,2-Dichlorobenzene-d4	12.19	152	23617	4.19	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	83.80%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.64	62	17059	3.027	ug/L #	69
8) Chloroethane	1.96	64	4784	1.279	ug/L #	51
14) Carbon disulfide	2.84	76	2115	0.170	ug/L	99
16) Methylene chloride	3.11	84	1195	0.226	ug/L	86
18) trans-1,2-Dichloroethene	3.40	96	1209	0.294	ug/L	94
19) 1,1-Dichloroethane	3.93	63	683	0.074	ug/L #	88
22) cis-1,2-Dichloroethene	4.72	96	113037	24.315	ug/L	96
27) 1,2-Dichloroethane	5.80	62	431	0.060	ug/L #	74
33) Benzene	5.79	78	411	0.023	ug/L	100
34) Trichloroethene	6.59	95	786	0.165	ug/L	92
35) Methylcyclohexane	6.74	83	5987	0.943	ug/L #	13
37) 1,2-Dichloropropane	6.74	63	2888	0.559	ug/L #	86
39) cis-1,3-Dichloropropene	7.60	75	664	0.092	ug/L #	63
42) Toluene	8.00	91	22914	1.213	ug/L	99
44) trans-1,3-Dichloropropene	8.21	75	359	0.053	ug/L #	45
48) 2-Hexanone	8.66	43	7360	2.306	ug/L #	80
52) Ethylbenzene	9.58	91	12096	0.600	ug/L	98

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Quant Title : TRACE VOA SOM01.0
QLast Update : Fri Nov 20 05:56:10 2020
Response via : Initial Calibration

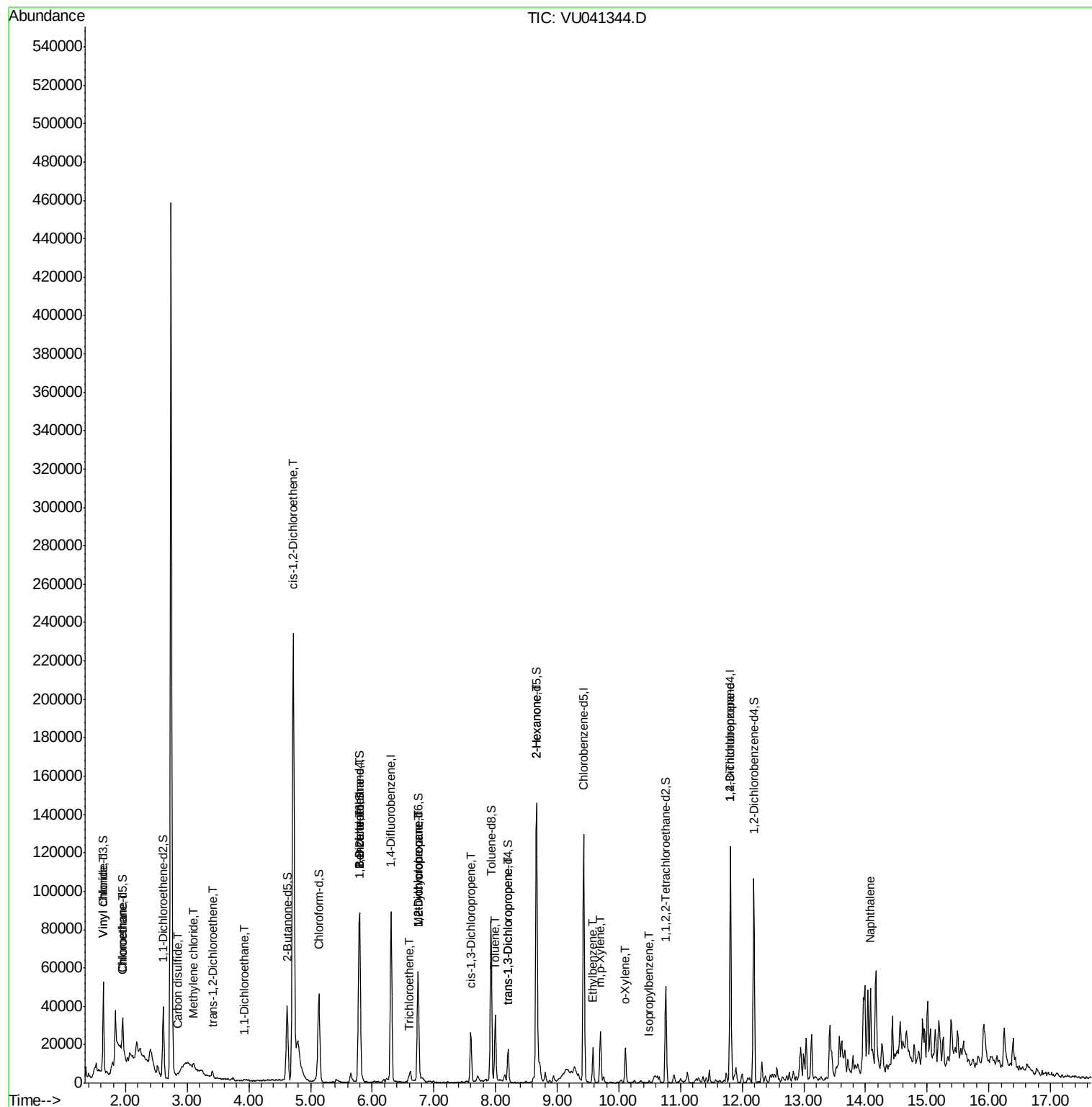
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
53) m,p-Xylene	9.70	106	6737	0.924	ug/L	97
54) o-Xylene	10.11	106	4606	0.656	ug/L	99
56) Isopropylbenzene	10.49	105	722	0.039	ug/L #	85
59) 1,2,3-Trichloropropane	11.81	75	3931	0.965	ug/L #	82
69) Naphthalene	14.08	128	3154	0.379	ug/L #	89

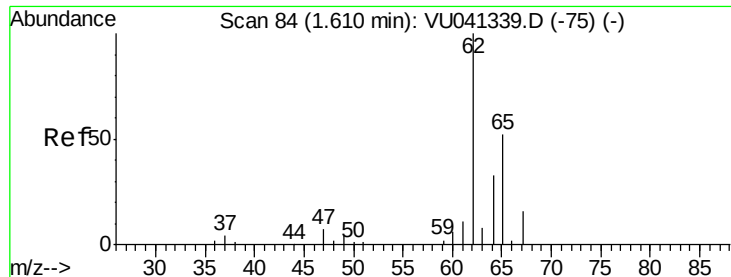
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#5

Vinyl chloride

Concen: 3.027 ug/L

RT: 1.64 min Scan# 94

Delta R.T. 0.03 min

Lab File: VU041344.D

Acq: 19 Nov 2020 15:31

Instrument :

MSVOA_U

ClientSampleId :

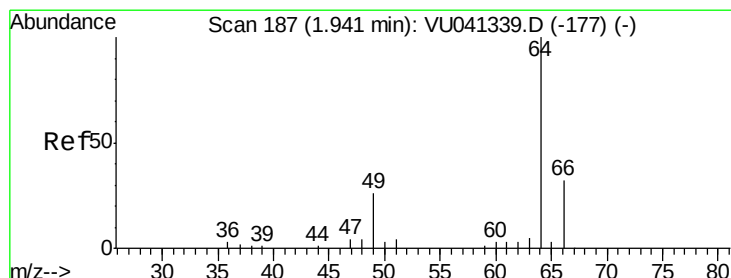
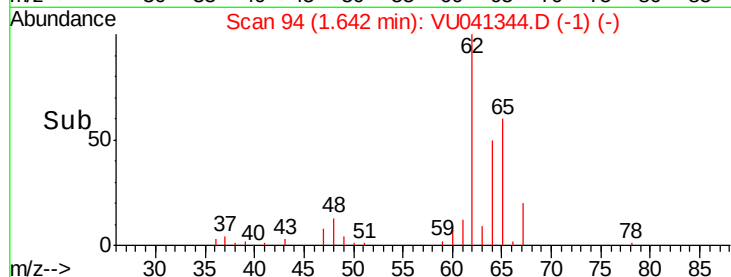
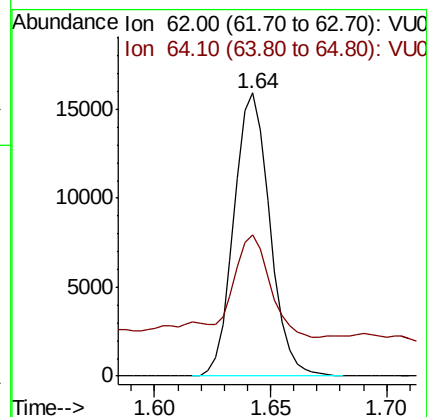
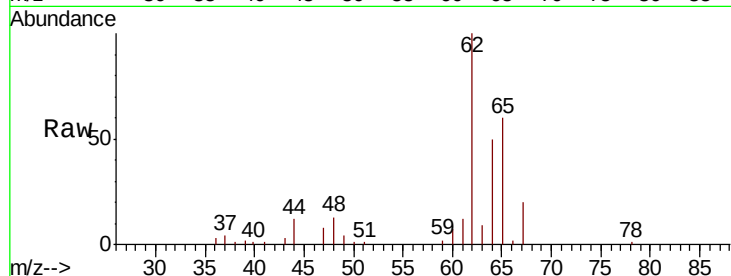
H4398

Tot Ion: 62 Resp: 17059

Ion Ratio Lower Upper

62 100

64 49.9 22.7 42.3#



#8

Chloroethane

Concen: 1.279 ug/L

RT: 1.96 min Scan# 194

Delta R.T. 0.02 min

Lab File: VU041344.D

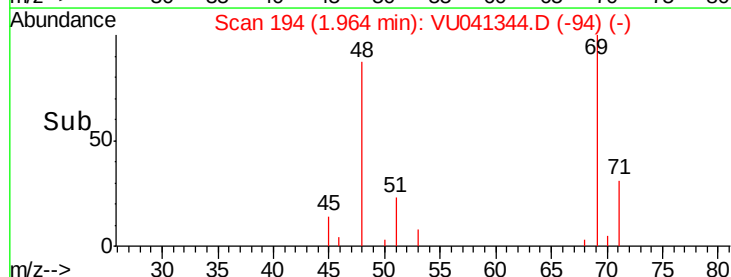
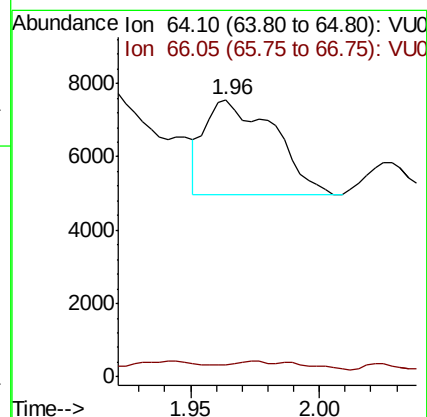
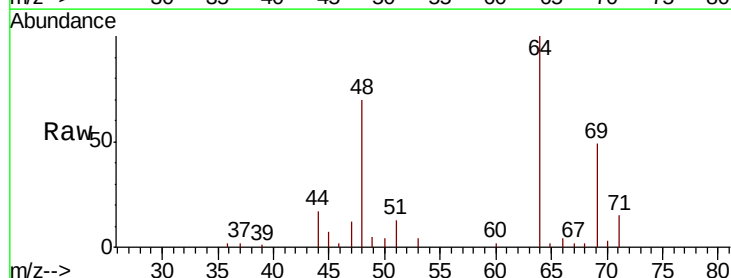
Acq: 19 Nov 2020 15:31

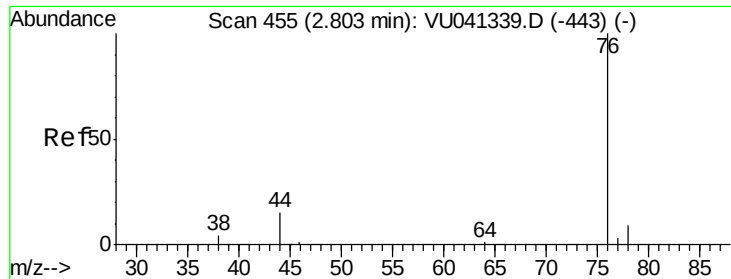
Tgt Ion: 64 Resp: 4784

Ion Ratio Lower Upper

64 100

66 4.4 22.3 41.5#





#14

Carbon disulfide

Concen: 0.170 ug/L

RT: 2.84 min Scan# 467

Delta R.T. 0.04 min

Lab File: VU041344.D

Acq: 19 Nov 2020 15:31

Instrument :

MSVOA_U

ClientSampleId :

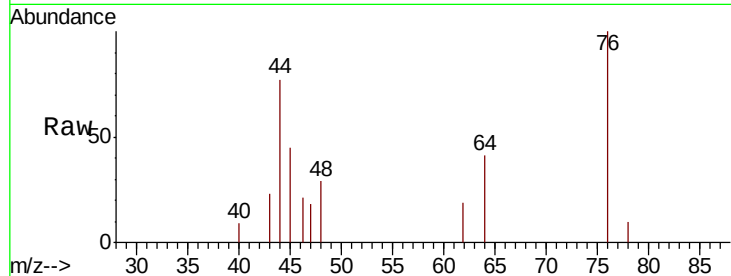
H4398

Tot Ion: 76 Resp: 2115

Ion Ratio Lower Upper

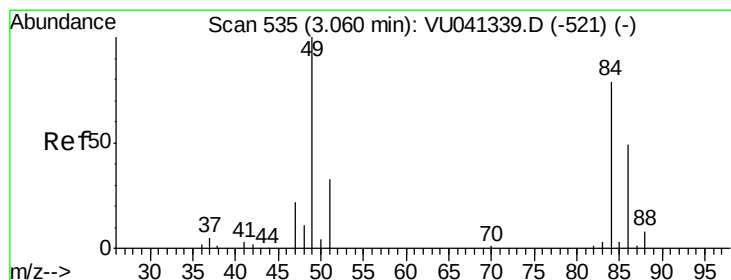
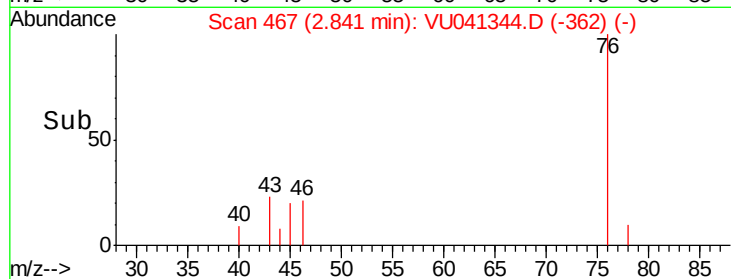
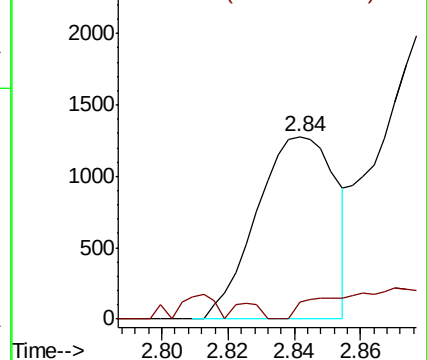
76 100

78 9.6 7.5 11.3



Abundance Ion 76.05 (75.75 to 76.75): VU0

Ion 78.00 (77.70 to 78.70): VU0



#16

Methylene chloride

Concen: 0.226 ug/L

RT: 3.11 min Scan# 549

Delta R.T. 0.04 min

Lab File: VU041344.D

Acq: 19 Nov 2020 15:31

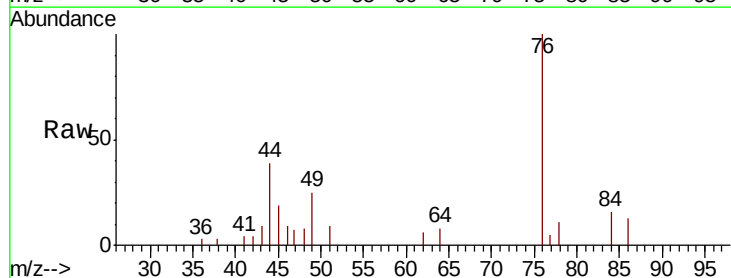
Tgt Ion: 84 Resp: 1195

Ion Ratio Lower Upper

84 100

86 78.4 42.8 79.6

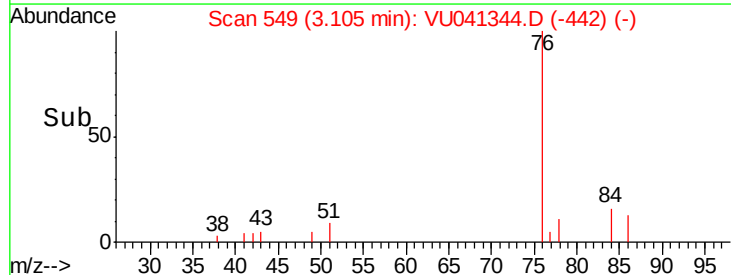
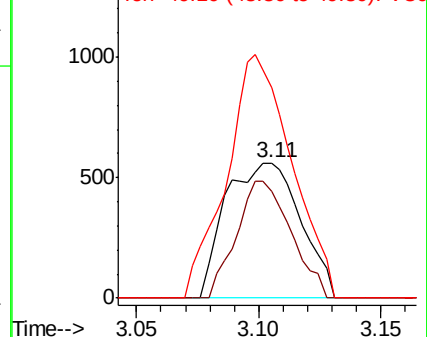
49 155.4 99.5 184.7

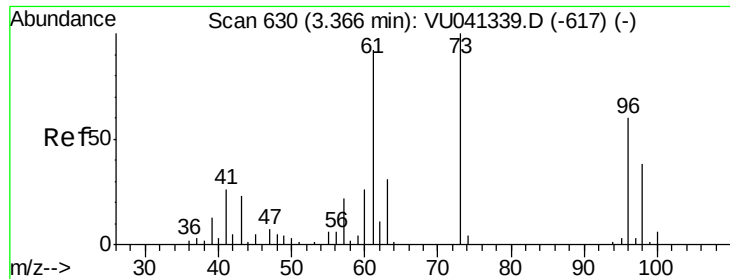


Abundance Ion 84.05 (83.75 to 84.75): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.10 (48.80 to 49.80): VU0

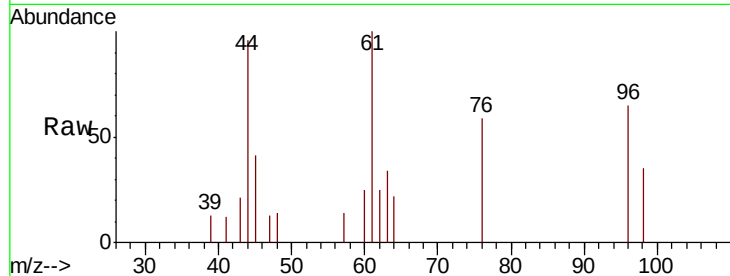




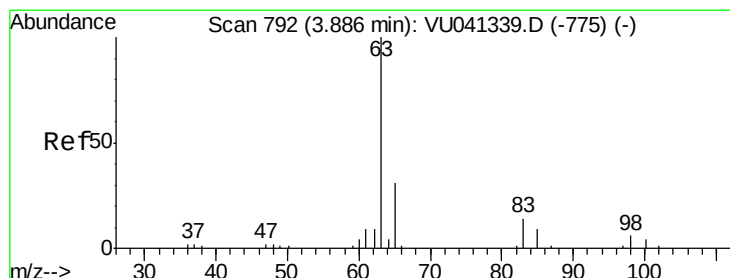
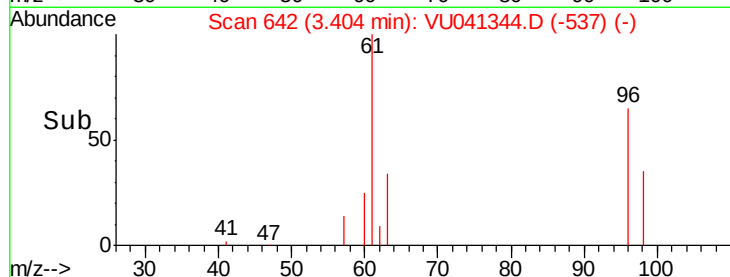
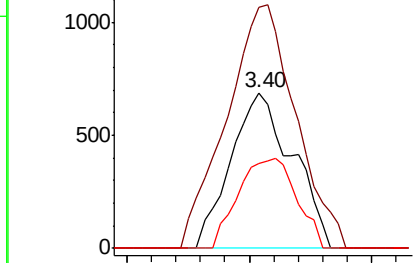
#18
 trans-1,2-Dichloroethene
 Concen: 0.294 ug/L
 RT: 3.40 min Scan# 642
 Delta R.T. 0.04 min
 Lab File: VU041344.D
 Acq: 19 Nov 2020 15:31

Instrument :
 MSVOA_U
 ClientSampleId :
 H4398

Tot Ion: 96 Resp: 1209
 Ion Ratio Lower Upper
 96 100
 61 154.8 110.9 205.9
 98 54.4 45.4 84.2

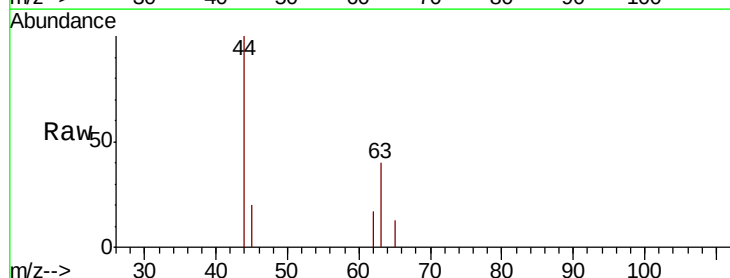


Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 97.95 (97.65 to 98.65): VU0

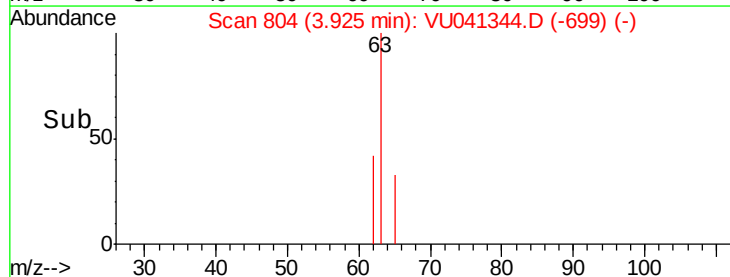
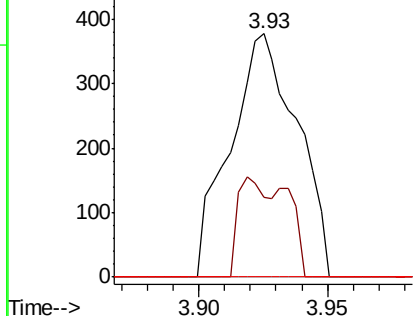


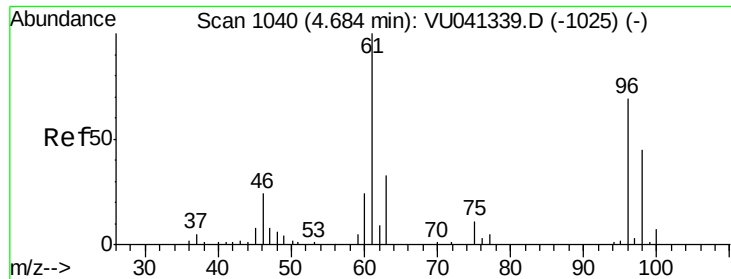
#19
 1,1-Dichloroethane
 Concen: 0.074 ug/L
 RT: 3.93 min Scan# 804
 Delta R.T. 0.04 min
 Lab File: VU041344.D
 Acq: 19 Nov 2020 15:31

Tgt Ion: 63 Resp: 683
 Ion Ratio Lower Upper
 63 100
 65 32.9 21.3 39.6
 83 0.0 8.8 16.3#



Abundance Ion 63.10 (62.80 to 63.80): VU0
 Ion 65.10 (64.80 to 65.80): VU0
 Ion 83.05 (82.75 to 83.75): VU0

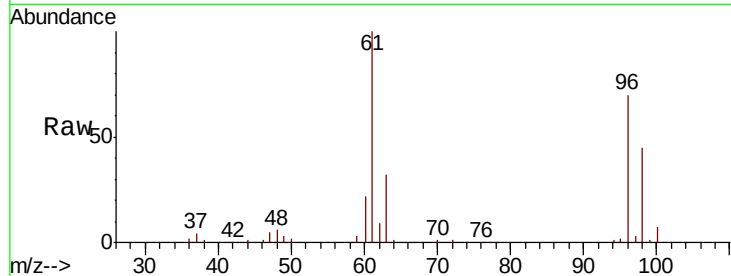




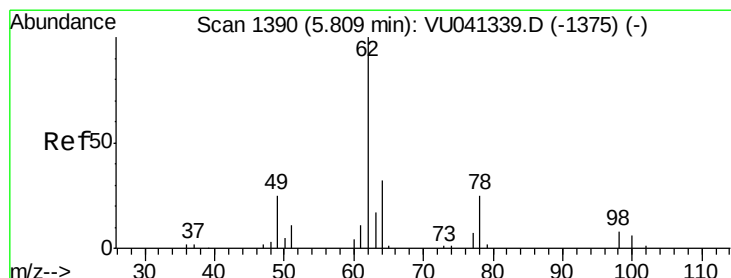
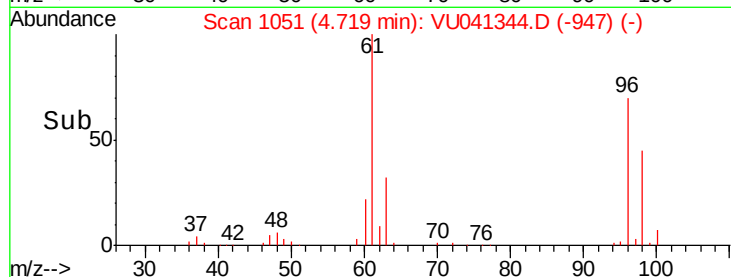
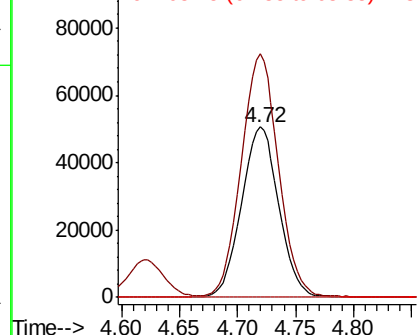
#22
 cis-1,2-Dichloroethene
 Concen: 24.315 ug/L
 RT: 4.72 min Scan# 1051
 Delta R.T. 0.04 min
 Lab File: VU041344.D
 Acq: 19 Nov 2020 15:31

Instrument :
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 H4398

Tot Ion: 96 Resp: 113037
 Ion Ratio Lower Upper
 96 100
 61 143.2 97.2 180.4
 68 0.0 0.0 0.0

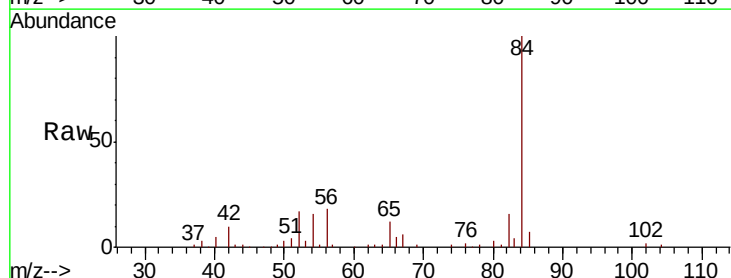


Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 68.15 (67.85 to 68.85): VU0

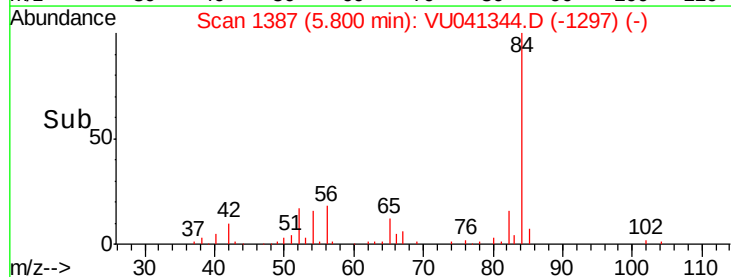
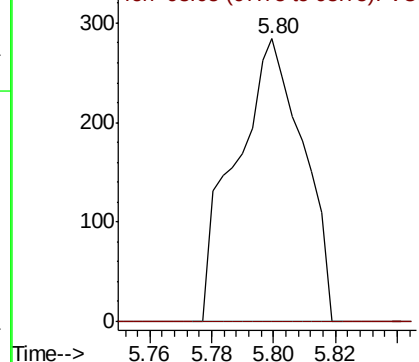


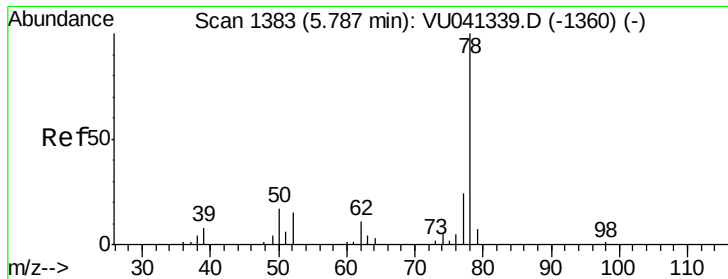
#27
 1,2-Dichloroethane
 Concen: 0.060 ug/L
 RT: 5.80 min Scan# 1387
 Delta R.T. -0.01 min
 Lab File: VU041344.D
 Acq: 19 Nov 2020 15:31

Tgt Ion: 62 Resp: 431
 Ion Ratio Lower Upper
 62 100
 98 0.0 7.6 11.4#



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





#33

Benzene

Concen: 0.023 ug/L

RT: 5.79 min Scan# 1385

Delta R.T. 0.01 min

Lab File: VU041344.D

Acq: 19 Nov 2020 15:31

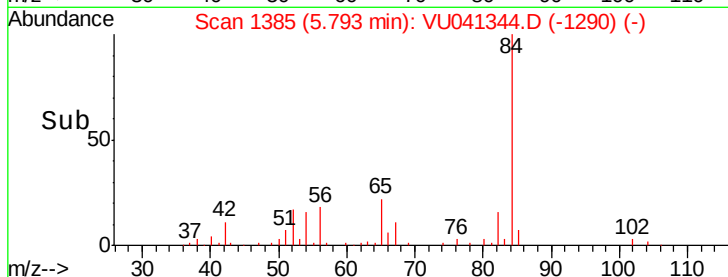
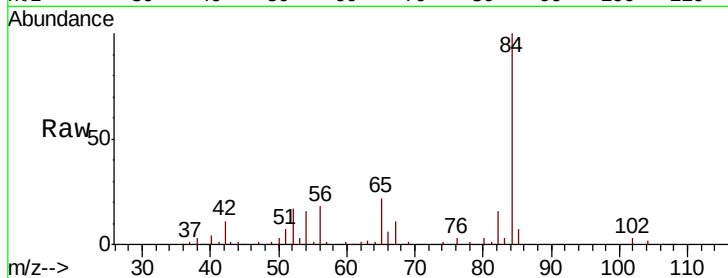
Instrument :

MSVOA_U

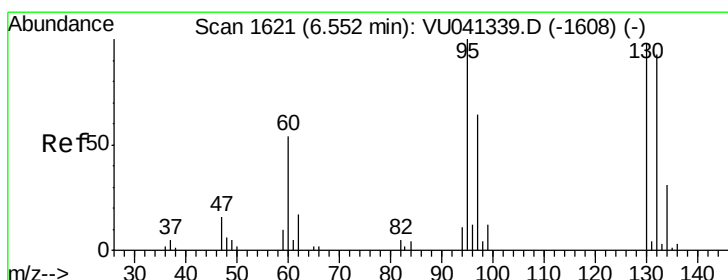
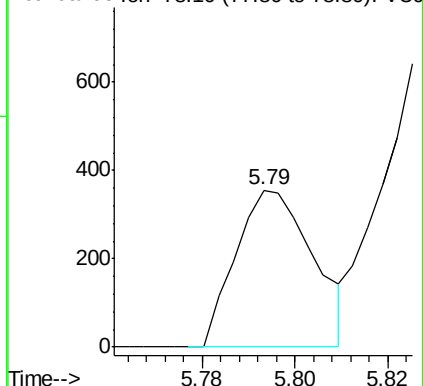
ClientSampleId :

H4398

Tgt Ion: 78 Resp: 411



Abundance Ion 78.10 (77.80 to 78.80): VU0



#34

Trichloroethene

Concen: 0.165 ug/L

RT: 6.59 min Scan# 1633

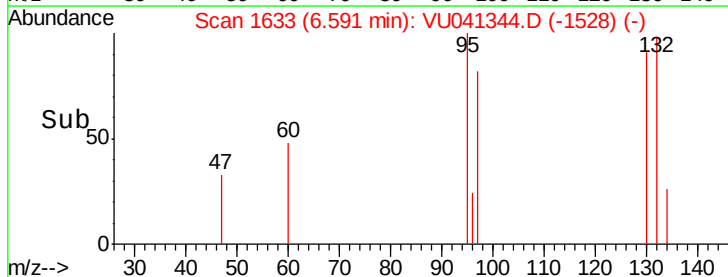
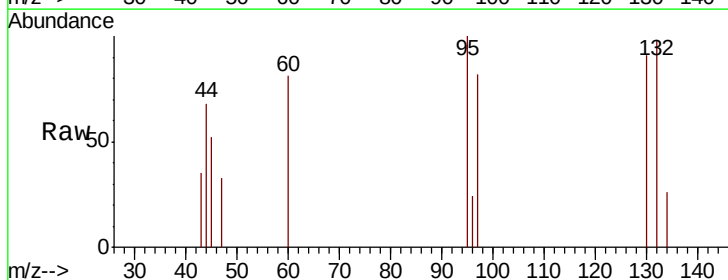
Delta R.T. 0.04 min

Lab File: VU041344.D

Acq: 19 Nov 2020 15:31

Tgt Ion: 95 Resp: 786

Ion	Ratio	Lower	Upper
95	100		
97	81.6	45.6	84.6
132	97.7	64.8	120.4
130	91.3	64.8	120.4

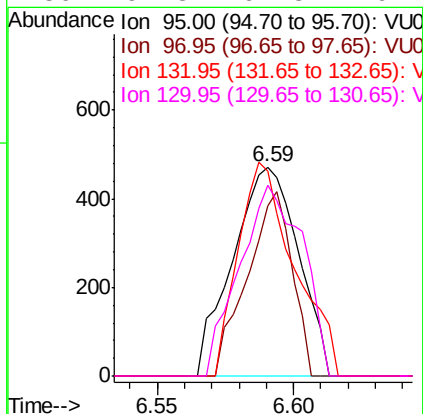


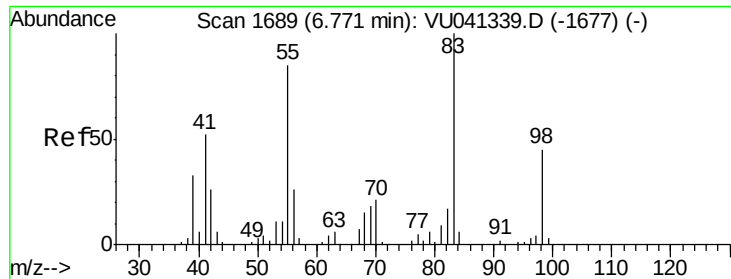
Abundance Ion 95.00 (94.70 to 95.70): VU0

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

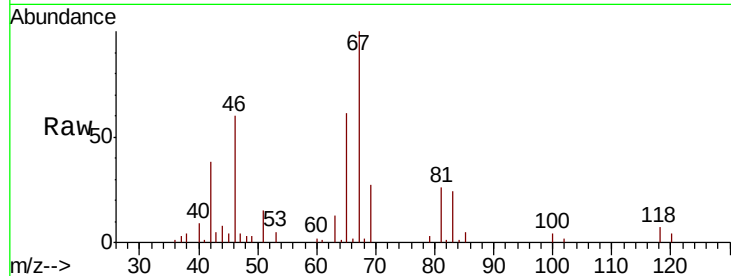




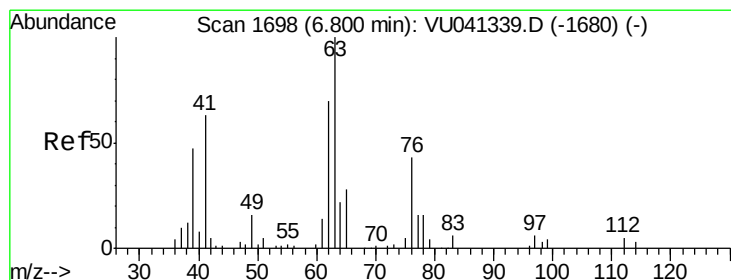
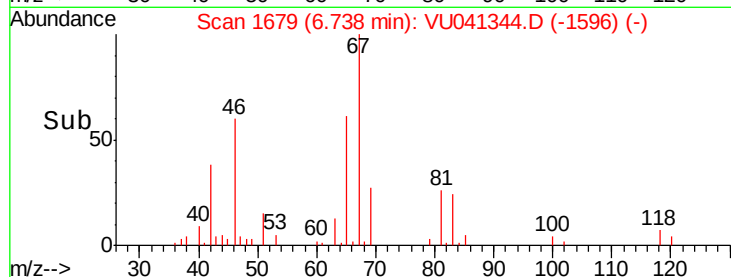
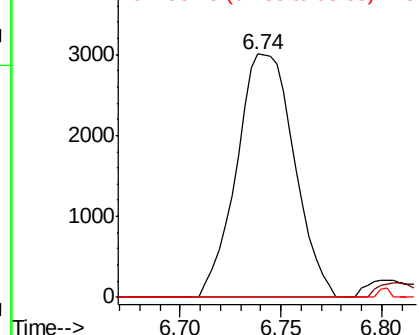
#35
Methylvlcyclohexane
Concen: 0.943 ug/L
RT: 6.74 min Scan# 1679
Delta R.T. -0.03 min
Lab File: VU041344.D
Acq: 19 Nov 2020 15:31

Instrument :
MSVOA_U
ClientSampleId :
H4398

Tot Ion: 83 Resp: 5987
Ion Ratio Lower Upper
83 100
55 0.0 72.0 108.0#
98 0.0 36.6 55.0#

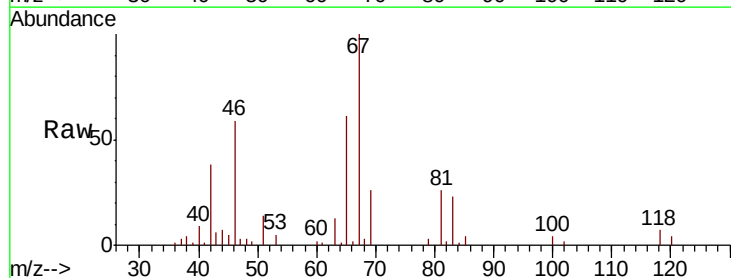


Abundance Ion 83.15 (82.85 to 83.85): VU0
Ion 55.10 (54.80 to 55.80): VU0
Ion 98.15 (97.85 to 98.85): VU0

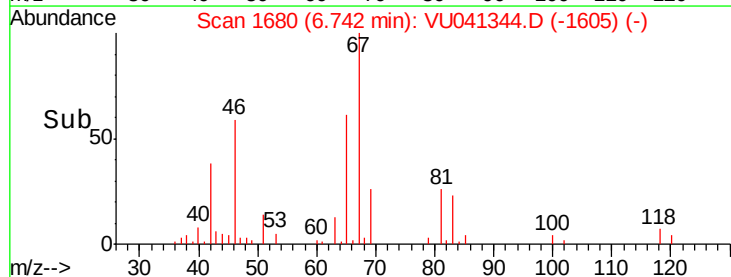
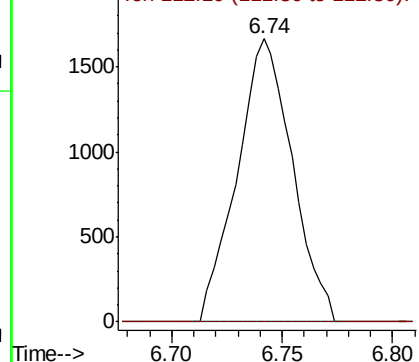


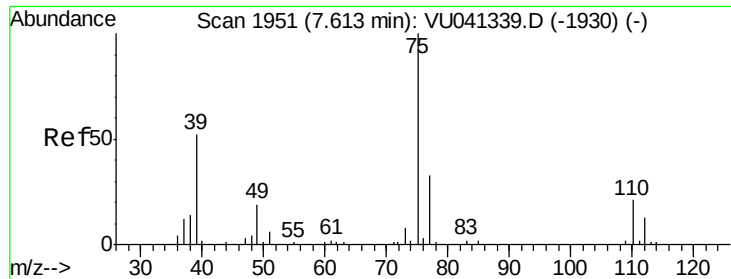
#37
1,2-Dichloropropane
Concen: 0.559 ug/L
RT: 6.74 min Scan# 1680
Delta R.T. -0.06 min
Lab File: VU041344.D
Acq: 19 Nov 2020 15:31

Tgt Ion: 63 Resp: 2888
Ion Ratio Lower Upper
63 100
112 0.0 3.6 5.4#



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

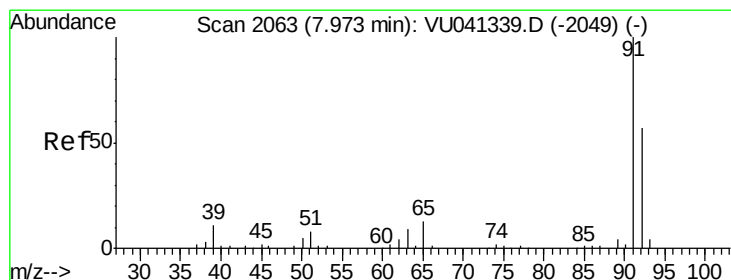
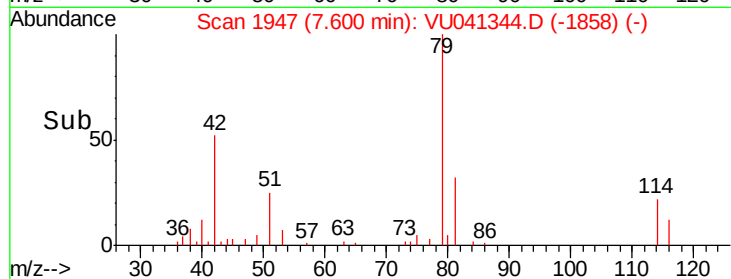
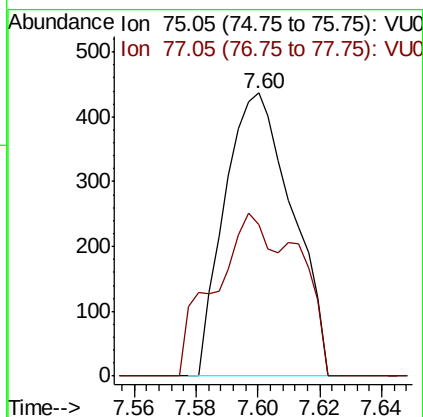
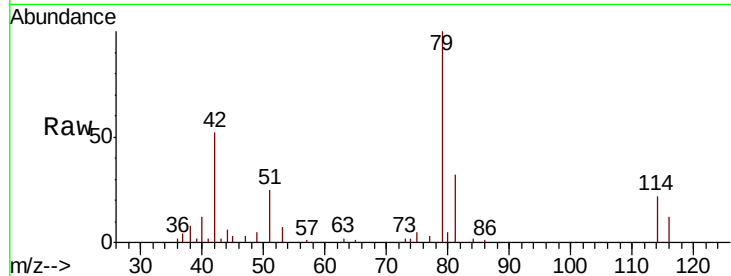




#39
 cis-1,3-Dichloropropene
 Concen: 0.092 ug/L
 RT: 7.60 min Scan# 1947
 Delta R.T. -0.01 min
 Lab File: VU041344.D
 Acq: 19 Nov 2020 15:31

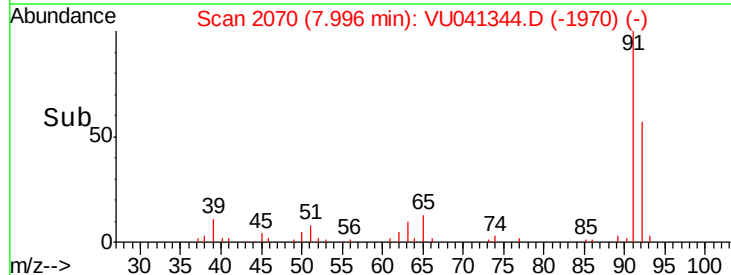
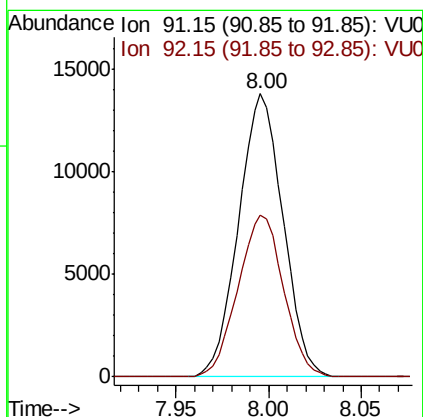
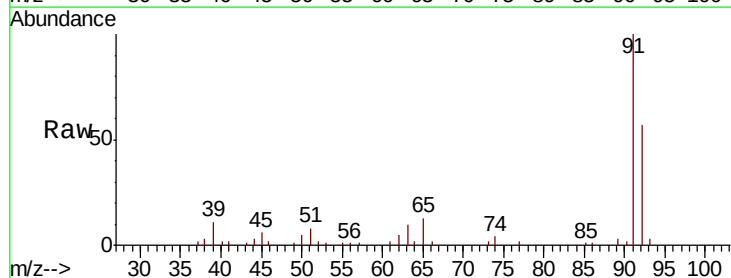
Instrument :
 MSVOA_U
 ClientSampleId :
 H4398

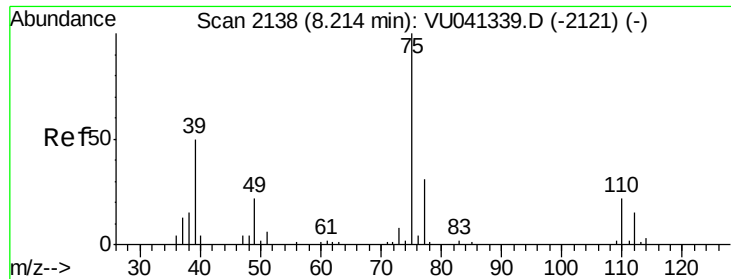
Tot Ion: 75 Resp: 664
 Ion Ratio Lower Upper
 75 100
 77 53.5 22.7 42.3#



#42
 Toluene
 Concen: 1.213 ug/L
 RT: 8.00 min Scan# 2070
 Delta R.T. 0.02 min
 Lab File: VU041344.D
 Acq: 19 Nov 2020 15:31

Tgt Ion: 91 Resp: 22914
 Ion Ratio Lower Upper
 91 100
 92 57.2 40.6 75.4

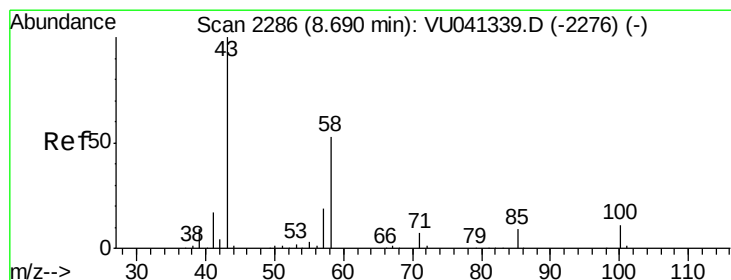
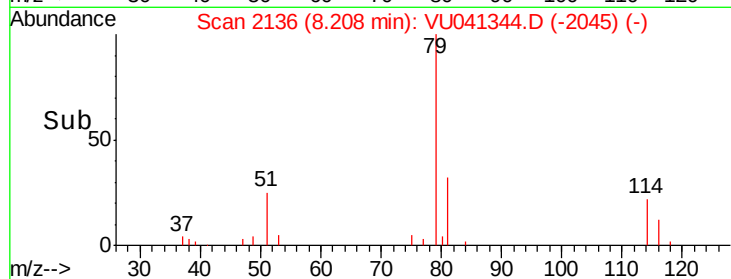
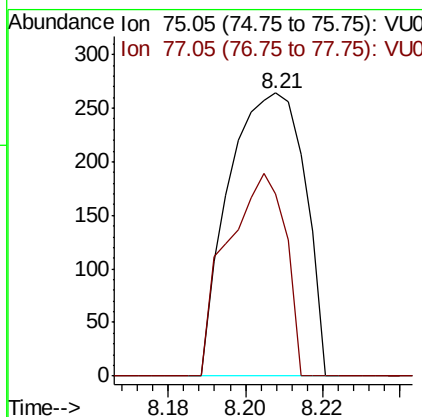
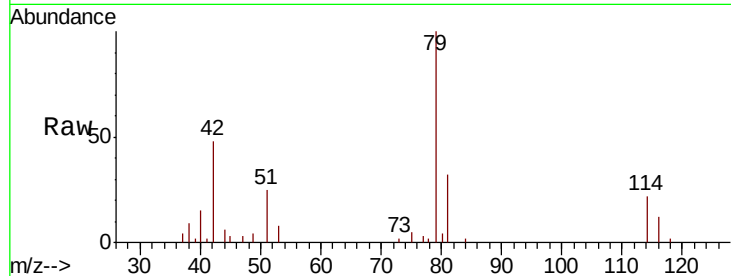




#44
trans-1,3-Dichloropropene
Concen: 0.053 ug/L
RT: 8.21 min Scan# 2136
Delta R.T. -0.01 min
Lab File: VU041344.D
Acq: 19 Nov 2020 15:31

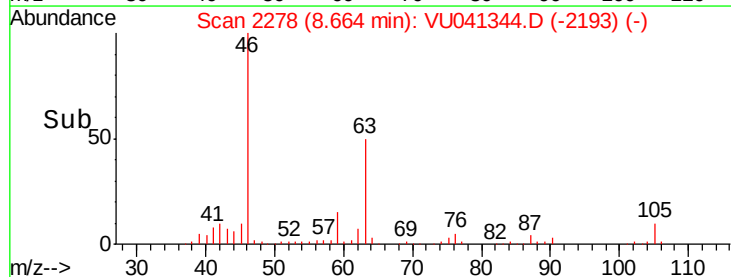
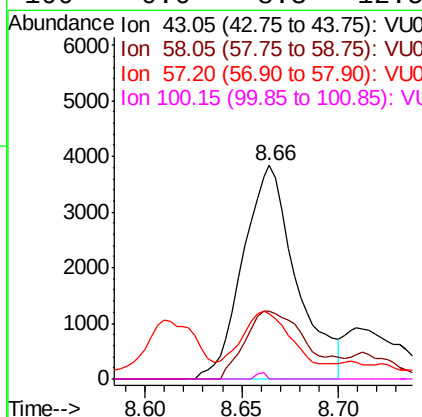
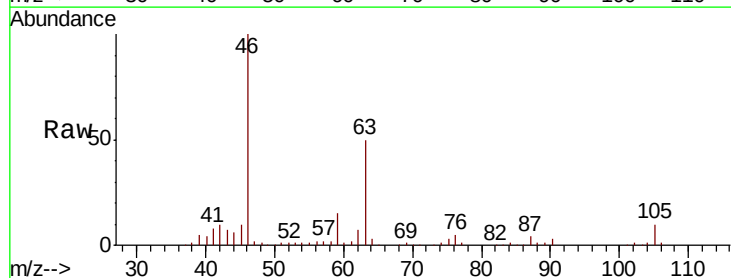
Instrument :
MSVOA_U
ClientSampleId :
H4398

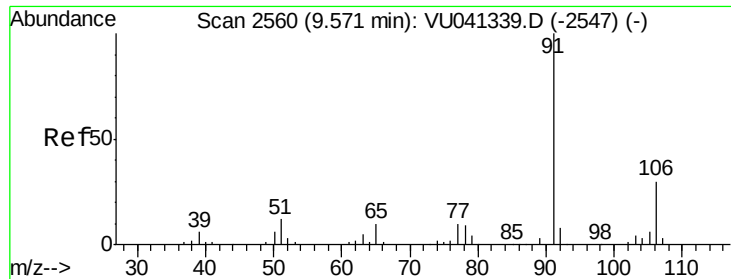
Tot Ion: 75 Resp: 359
Ion Ratio Lower Upper
75 100
77 64.4 23.3 43.3#



#48
2-Hexanone
Concen: 2.306 ug/L
RT: 8.66 min Scan# 2278
Delta R.T. -0.03 min
Lab File: VU041344.D
Acq: 19 Nov 2020 15:31

Tgt Ion: 43 Resp: 7360
Ion Ratio Lower Upper
43 100
58 37.6 41.4 62.2#
57 25.8 14.6 21.8#
100 0.6 8.3 12.5#





#52

Ethylbenzene

Concen: 0.600 ug/L

RT: 9.58 min Scan# 2563

Delta R.T. 0.01 min

Lab File: VU041344.D

Acq: 19 Nov 2020 15:31

Instrument :

MSVOA_U

ClientSampleId :

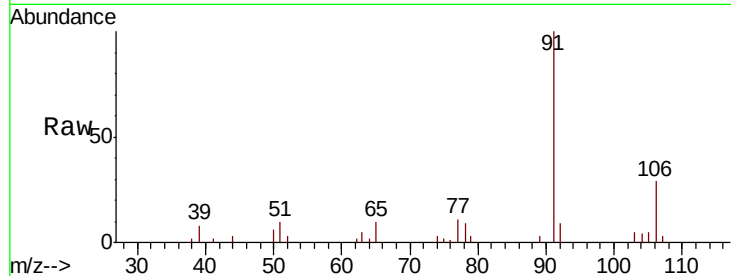
H4398

Tot Ion: 91 Resp: 12096

Ion Ratio Lower Upper

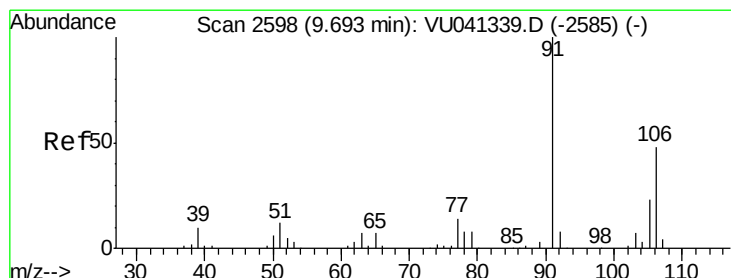
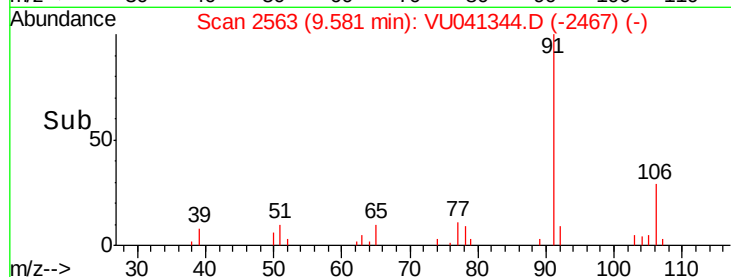
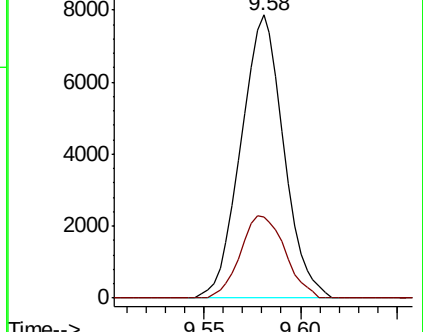
91 100

106 28.7 21.0 39.0



Abundance Ion 91.15 (90.85 to 91.85): VU041339.D (-2547) (-)

Ion 106.15 (105.85 to 106.85): VU041339.D (-2547) (-)



#53

m,p-Xylene

Concen: 0.924 ug/L

RT: 9.70 min Scan# 2600

Delta R.T. 0.01 min

Lab File: VU041344.D

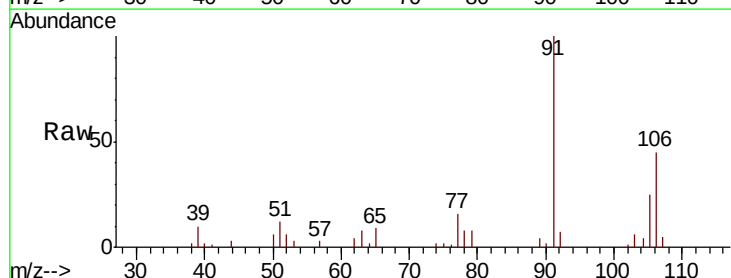
Acq: 19 Nov 2020 15:31

Tgt Ion: 106 Resp: 6737

Ion Ratio Lower Upper

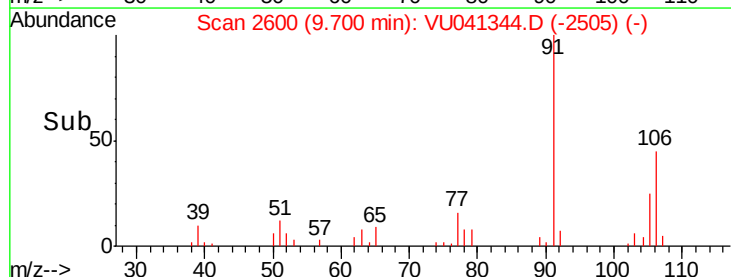
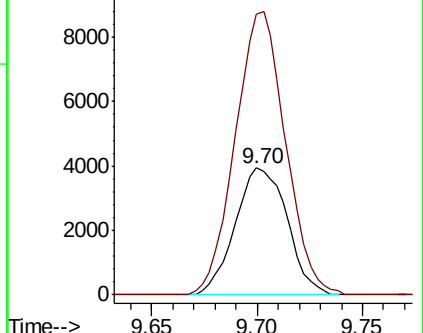
106 100

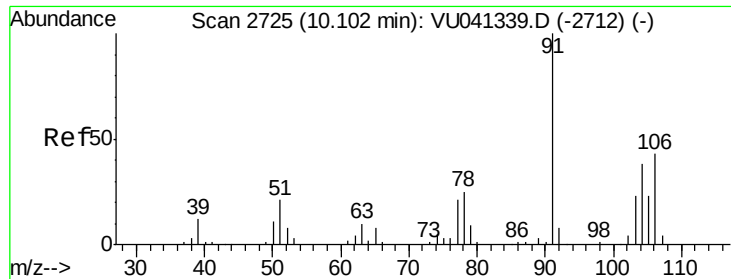
91 221.0 150.9 280.3



Abundance Ion 106.15 (105.85 to 106.85): VU041339.D (-2585) (-)

Ion 91.15 (90.85 to 91.85): VU041339.D (-2585) (-)

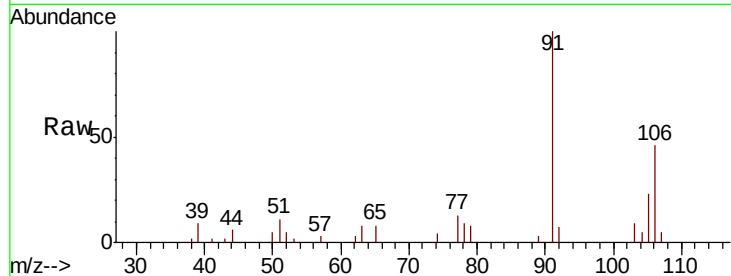




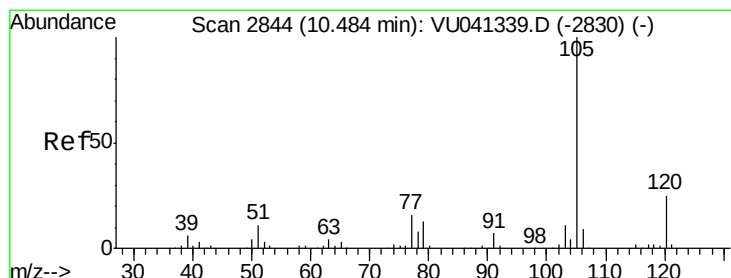
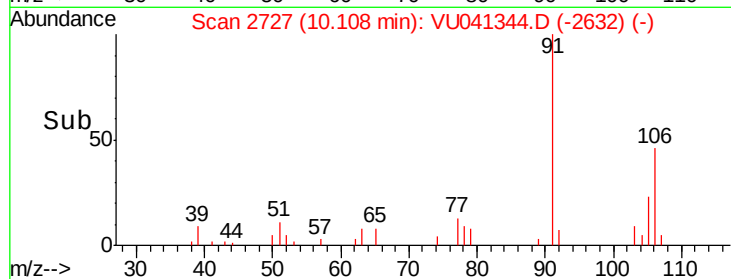
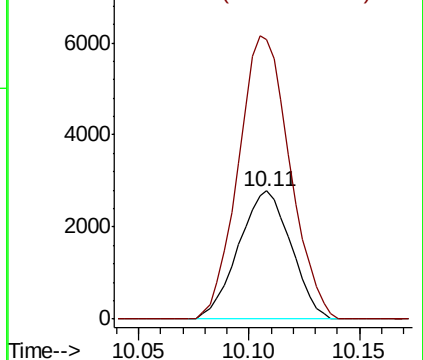
#54
o-Xylene
Concen: 0.656 ug/L
RT: 10.11 min Scan# 2727
Delta R.T. 0.01 min
Lab File: VU041344.D
Acq: 19 Nov 2020 15:31

Instrument :
MSVOA_U
ClientSampleId :
H4398

Tot Ion:106 Resp: 4606
Ion Ratio Lower Upper
106 100
91 218.2 154.3 286.5

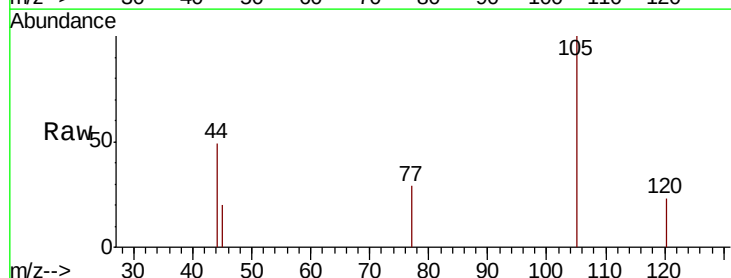


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

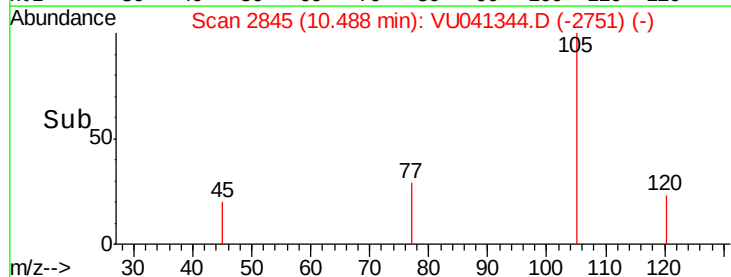
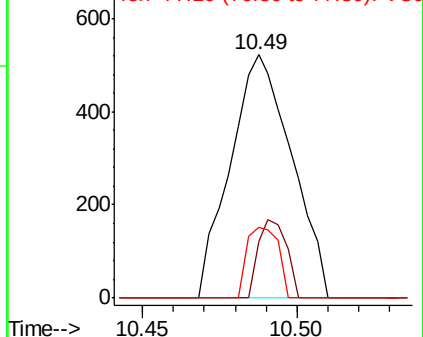


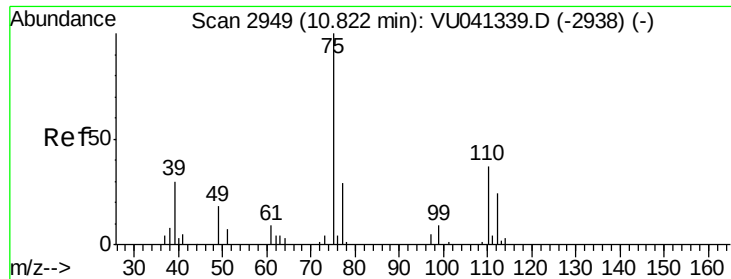
#56
Isopropylbenzene
Concen: 0.039 ug/L
RT: 10.49 min Scan# 2845
Delta R.T. 0.00 min
Lab File: VU041344.D
Acq: 19 Nov 2020 15:31

Tgt Ion:105 Resp: 722
Ion Ratio Lower Upper
105 100
120 14.7 20.7 31.1#
77 14.8 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): VU0

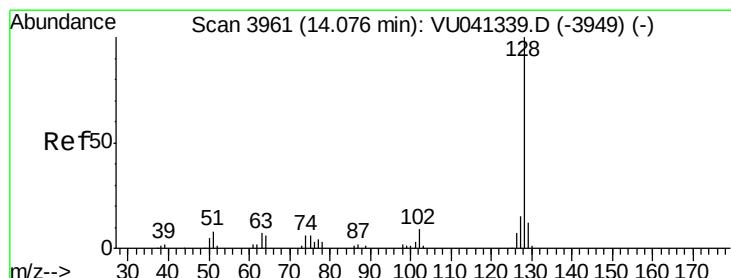
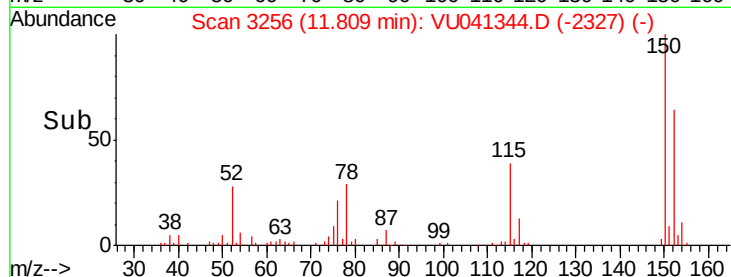
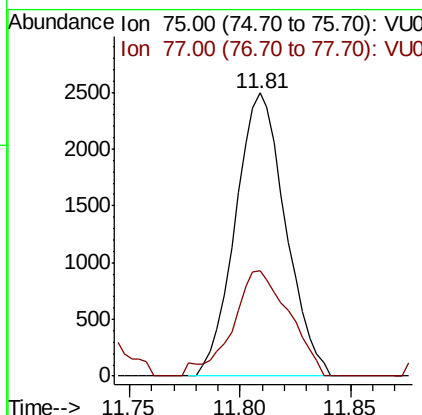
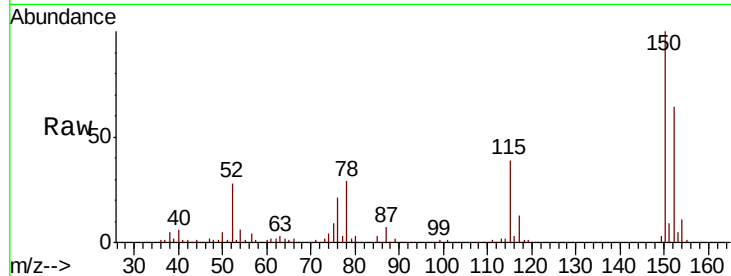




#59
1,2,3-Trichloropropane
Concen: 0.965 ug/L
RT: 11.81 min Scan# 3256
Delta R.T. 0.99 min
Lab File: VU041344.D
Acq: 19 Nov 2020 15:31

Instrument :
MSVOA_U
ClientSampled :
H4398

Tot Ion: 75 Resp: 3931
Ion Ratio Lower Upper
75 100
77 42.1 25.7 38.5#



#69
Naphthalene
Concen: 0.379 ug/L
RT: 14.08 min Scan# 3961
Delta R.T. -0.00 min
Lab File: VU041344.D
Acq: 19 Nov 2020 15:31

Tgt Ion: 128 Resp: 3154
Ion Ratio Lower Upper
128 100
129 11.4 8.7 13.1
127 20.8 10.8 16.2#

