

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU111920\
 Data File : VU041350.D
 Acq On : 19 Nov 2020 18:01
 Operator : SY/MD
 Sample : L4790-10DL 10X
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 H4430DL

Quant Time: Nov 20 05:59:18 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	6.26	114	60445	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	60560	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	25382	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	14810	3.33	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	66.60%
7) Chloroethane-d5	1.92	69	14844	3.90	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	78.00%
11) 1,1-Dichloroethene-d2	2.57	63	25313	2.76	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	55.20%#
20) 2-Butanone-d5	4.67	46	94423	51.51	ug/L	0.01
Spiked Amount	50.000	Range	40 - 130	Recovery	=	103.02%
24) Chloroform-d	5.08	84	43975	4.57	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	91.40%
26) 1,2-Dichloroethane-d4	5.72	65	27861	4.44	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	88.80%
32) Benzene-d6	5.74	84	69701	4.27	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	85.40%
36) 1,2-Dichloropropane-d6	6.70	67	26005	4.62	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	92.40%
41) Toluene-d8	7.91	98	51862	3.37	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	67.40%#
43) trans-1,3-Dichloropropene-	8.19	79	10168	4.20	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	84.00%
46) 2-Hexanone-d5	8.64	63	63524	49.11	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	98.22%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	26206	4.80	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	96.00%
64) 1,2-Dichlorobenzene-d4	12.19	152	24153	4.88	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	97.60%

Target Compounds

					Ovalue
3) Chloromethane	1.52	50	438	0.082 ug/L #	68
5) Vinyl chloride	1.61	62	40896	7.794 ug/L	98
8) Chloroethane	1.95	64	948	0.272 ug/L #	51
12) 1,1-Dichloroethene	2.59	96	346	0.088 ug/L #	1
14) Carbon disulfide	2.81	76	980	0.085 ug/L #	74
16) Methylene chloride	3.06	84	1174	0.238 ug/L	80
18) trans-1,2-Dichloroethene	3.37	96	2114	0.552 ug/L	88
19) 1,1-Dichloroethane	3.89	63	555	0.065 ug/L #	51
22) cis-1,2-Dichloroethene	4.68	96	63585	14.692 ug/L	96
33) Benzene	5.79	78	6044	0.368 ug/L	100
34) Trichloroethene	6.56	95	6667	1.503 ug/L	92
35) Methylcyclohexane	6.71	83	6266	1.063 ug/L #	14
37) 1,2-Dichloropropane	6.70	63	2983	0.622 ug/L #	86
39) cis-1,3-Dichloropropene	7.57	75	637	0.095 ug/L #	67
42) Toluene	7.98	91	27348	1.559 ug/L	95
44) trans-1,3-Dichloropropene	8.19	75	442	0.070 ug/L #	71
48) 2-Hexanone	8.64	43	10771	3.635 ug/L #	70

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

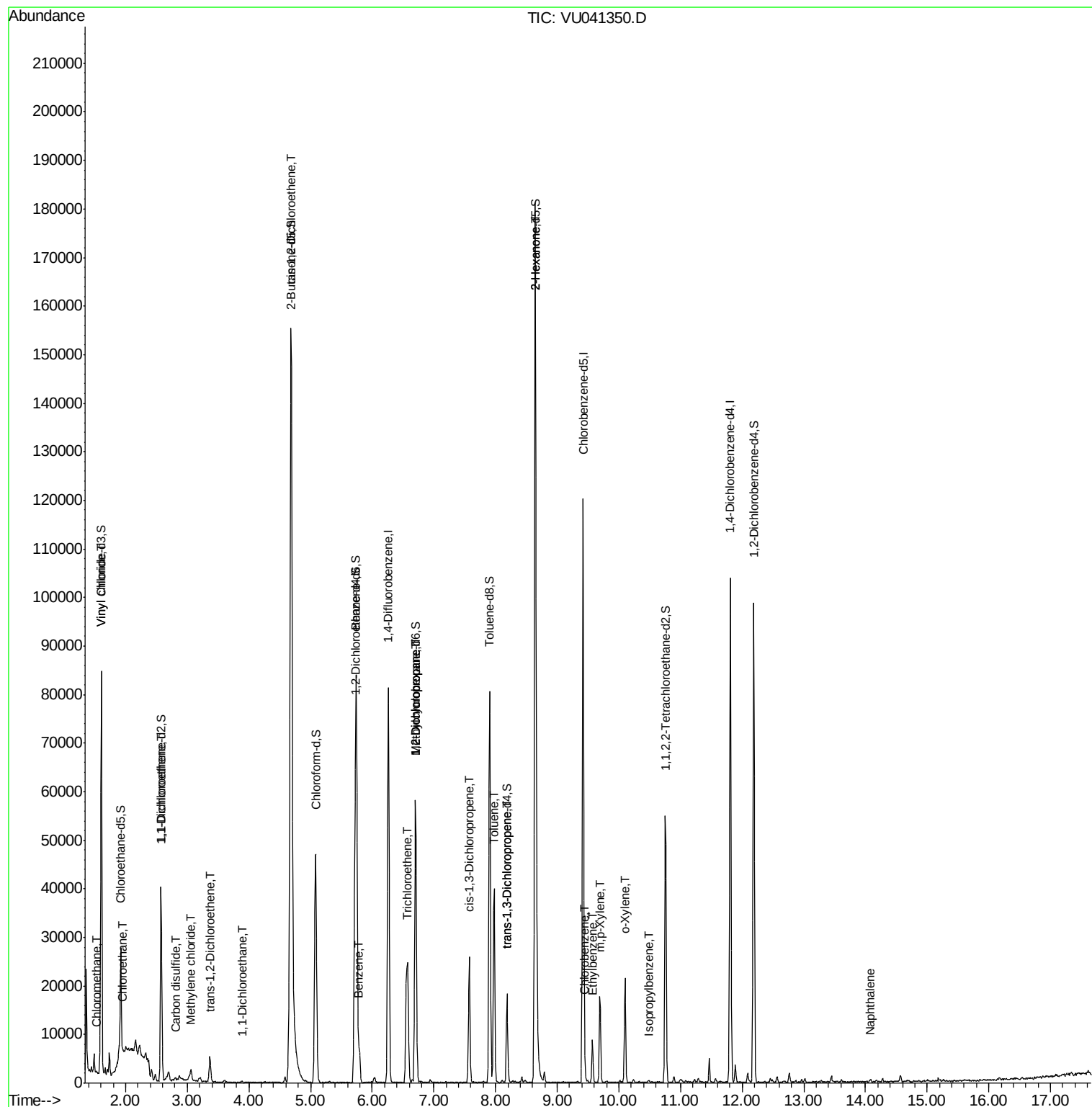
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) Chlorobenzene	9.46	112	606	0.052	ug/L #	76
52) Ethylbenzene	9.57	91	6092	0.325	ug/L	94
53) m,p-Xylene	9.70	106	4638	0.685	ug/L	92
54) o-Xylene	10.10	106	5309	0.814	ug/L	98
56) Isopropylbenzene	10.48	105	486	0.028	ug/L #	54
69) Naphthalene	14.08	128	696	0.095	ug/L #	80

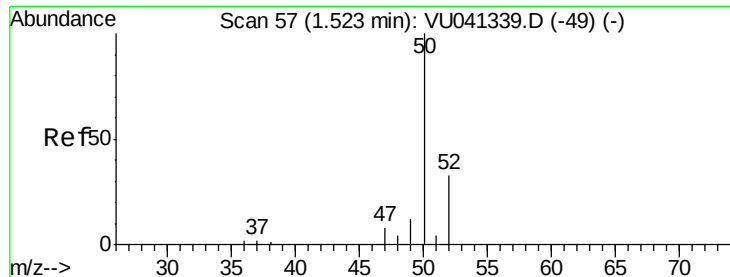
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.082 ug/L

RT: 1.52 min Scan# 57

Delta R.T. 0.00 min

Lab File: VU041350.D

Acq: 19 Nov 2020 18:01

Instrument :

MSVOA_U

ClientSampleId :

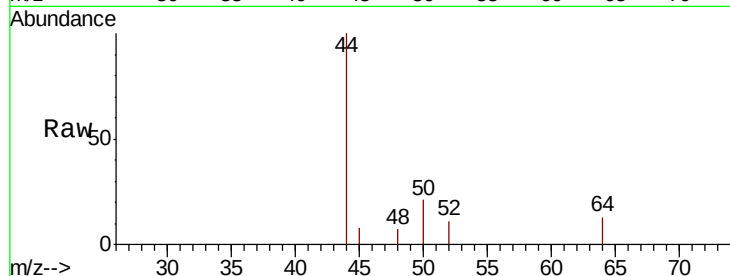
H4430DL

Tot Ion: 50 Resp: 438

Ion Ratio Lower Upper

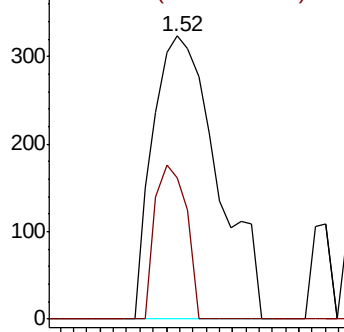
50 100

52 49.8 22.4 41.6#

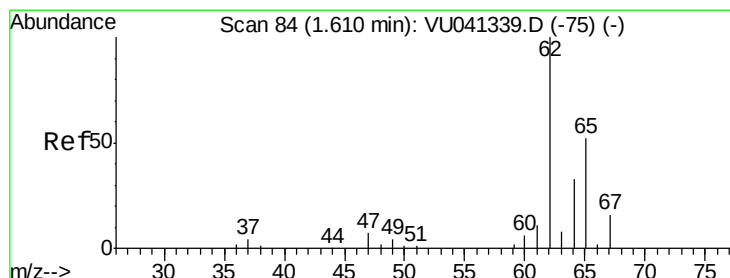
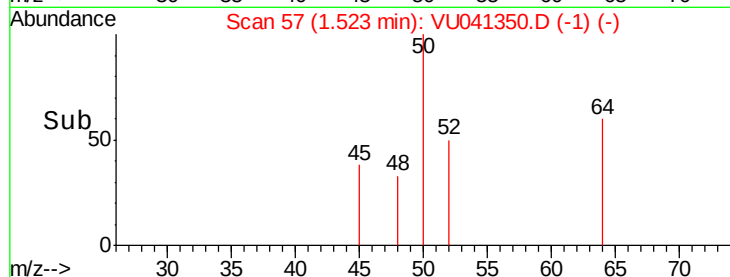


Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0



Time-->



#5

Vinyl chloride

Concen: 7.794 ug/L

RT: 1.61 min Scan# 83

Delta R.T. -0.00 min

Lab File: VU041350.D

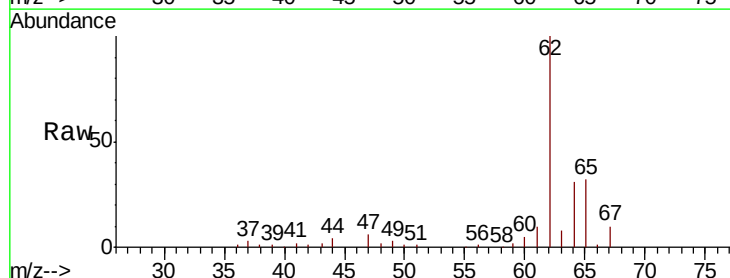
Acq: 19 Nov 2020 18:01

Tgt Ion: 62 Resp: 40896

Ion Ratio Lower Upper

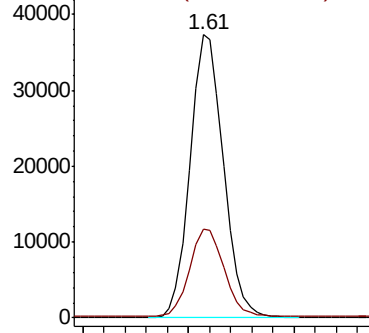
62 100

64 31.3 22.7 42.3

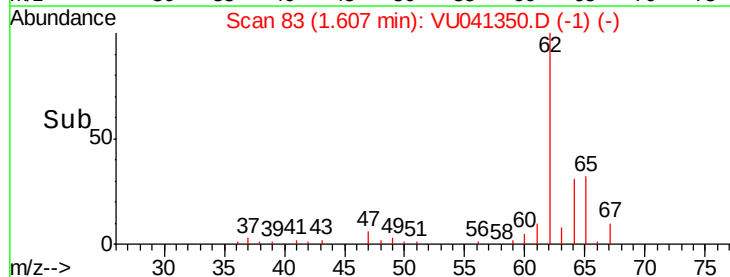


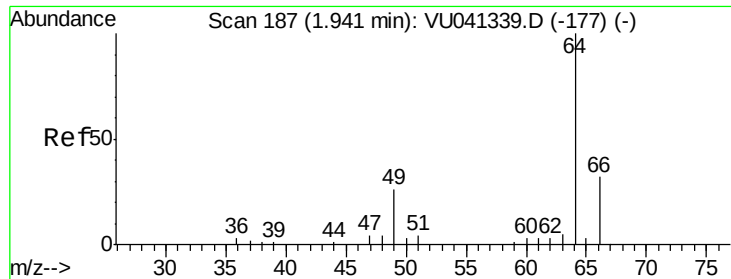
Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0



Time-->





#8

Chloroethane

Concen: 0.272 ug/L

RT: 1.95 min Scan# 191

Delta R.T. 0.01 min

Lab File: VU041350.D

Acq: 19 Nov 2020 18:01

Instrument :

MSVOA_U

ClientSampleId :

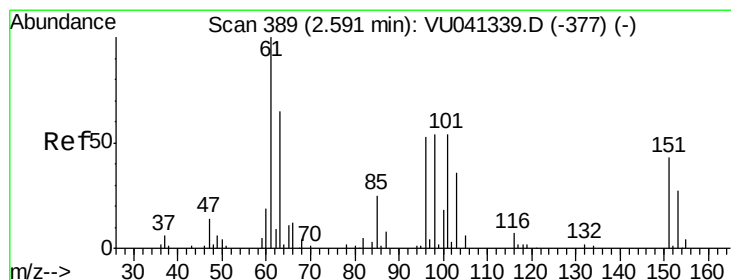
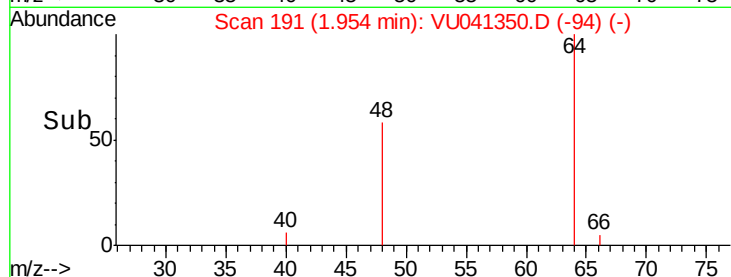
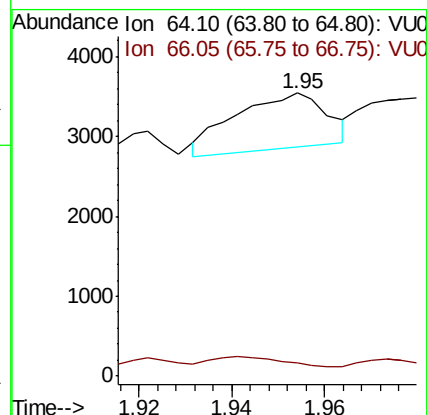
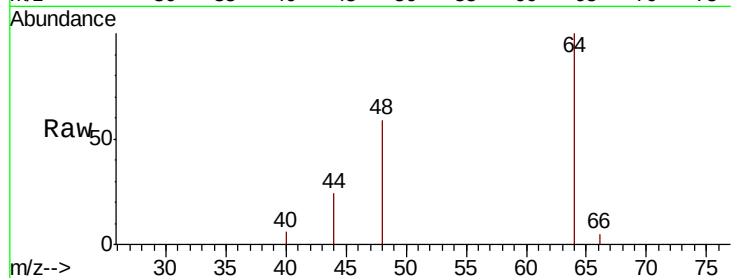
H4430DL

Tot Ion: 64 Resp: 948

Ion Ratio Lower Upper

64 100

66 4.5 22.3 41.5#



#12

1,1-Dichloroethene

Concen: 0.088 ug/L

RT: 2.59 min Scan# 388

Delta R.T. -0.00 min

Lab File: VU041350.D

Acq: 19 Nov 2020 18:01

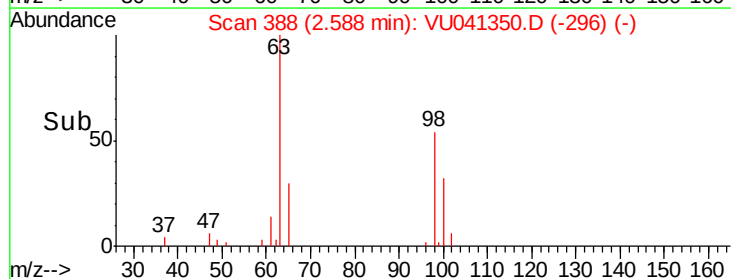
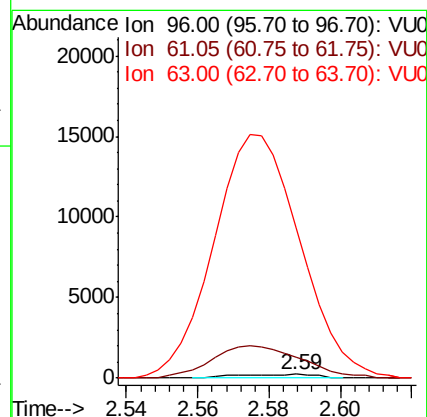
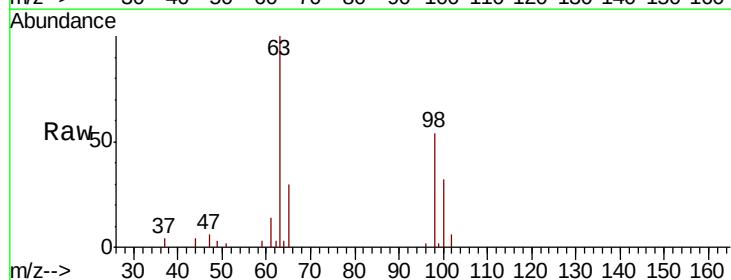
Tgt Ion: 96 Resp: 346

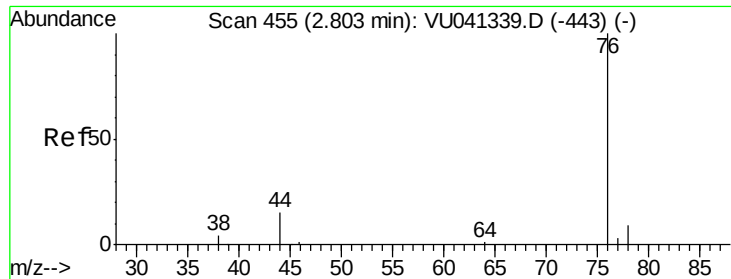
Ion Ratio Lower Upper

96 100

61 590.7 134.3 249.5#

63 4135.8 95.0 176.4#





#14

Carbon disulfide

Concen: 0.085 ug/L

RT: 2.81 min Scan# 456

Delta R.T. 0.00 min

Lab File: VU041350.D

Acq: 19 Nov 2020 18:01

Instrument :

MSVOA_U

ClientSampleId :

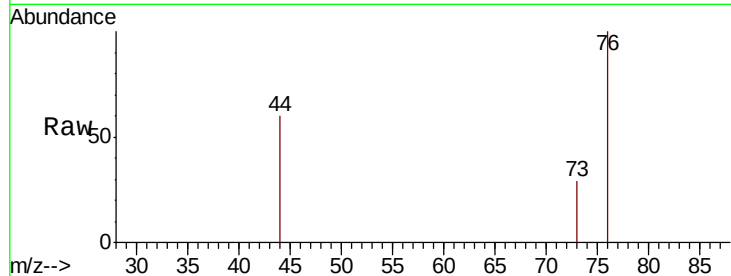
H4430DL

Tot Ion: 76 Resp: 980

Ion Ratio Lower Upper

76 100

78 0.0 7.5 11.3#



Abundance Ion 76.05 (75.75 to 76.75): VU041339.D (-443) (-)

Ion 78.00 (77.70 to 78.70): VU041339.D (-443) (-)

2.81

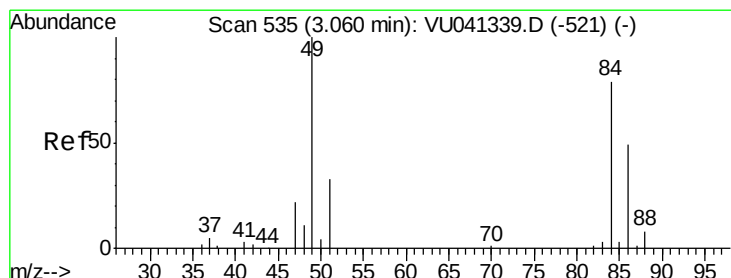
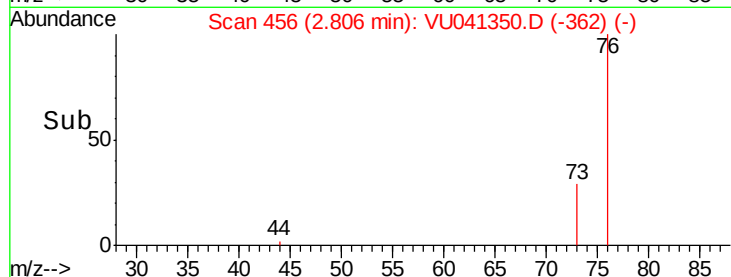
600

400

200

0

Time-->



#16

Methylene chloride

Concen: 0.238 ug/L

RT: 3.06 min Scan# 534

Delta R.T. -0.00 min

Lab File: VU041350.D

Acq: 19 Nov 2020 18:01

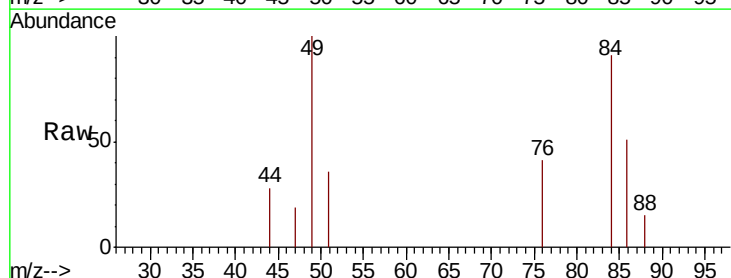
Tgt Ion: 84 Resp: 1174

Ion Ratio Lower Upper

84 100

86 56.0 42.8 79.6

49 110.1 99.5 184.7



Abundance Ion 84.05 (83.75 to 84.75): VU041339.D (-521) (-)

Ion 86.00 (85.70 to 86.70): VU041339.D (-521) (-)

Ion 49.10 (48.80 to 49.80): VU041339.D (-521) (-)

1000

800

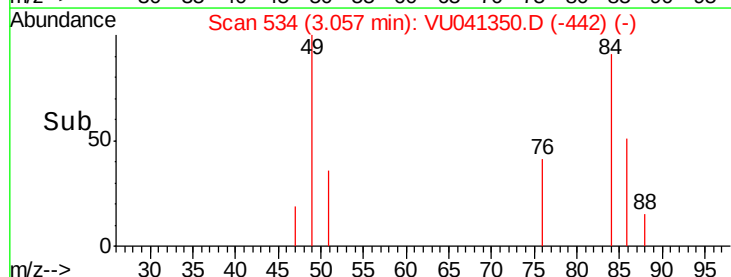
600

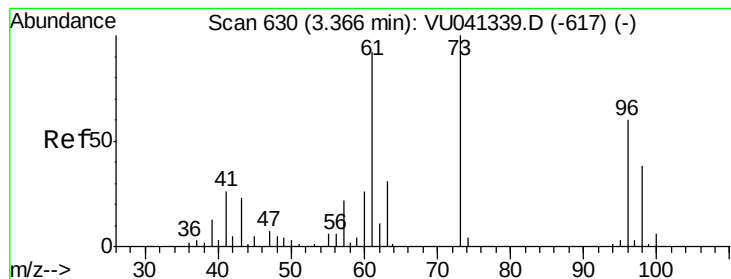
400

200

0

Time-->





#18

trans-1,2-Dichloroethene

Concen: 0.552 ug/L

RT: 3.37 min Scan# 632

Delta R.T. 0.01 min

Lab File: VU041350.D

Acq: 19 Nov 2020 18:01

Instrument :

MSVOA_U

ClientSampleId :

H4430DL

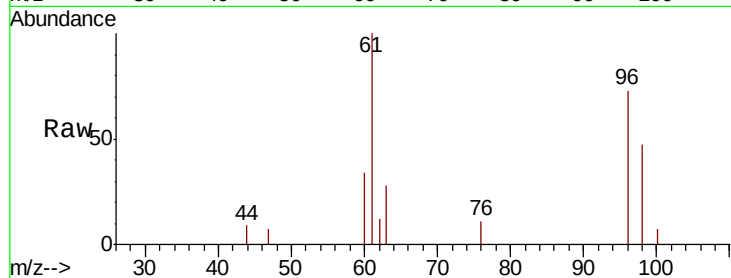
Tot Ion: 96 Resp: 2114

Ion Ratio Lower Upper

96 100

61 136.2 110.9 205.9

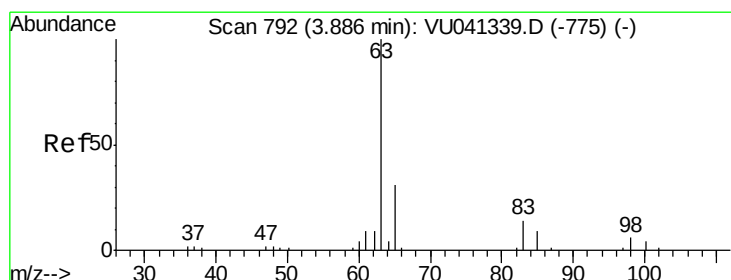
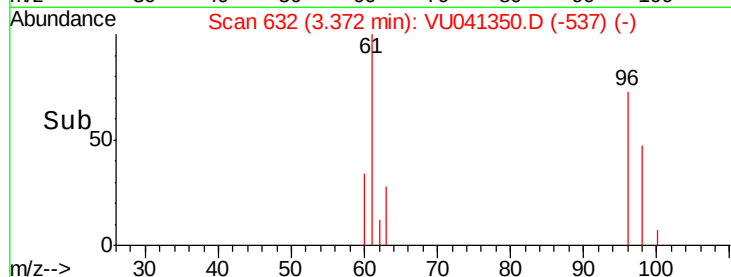
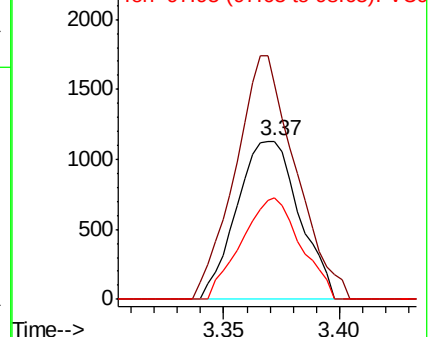
98 64.0 45.4 84.2



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: 0.065 ug/L

RT: 3.89 min Scan# 793

Delta R.T. 0.00 min

Lab File: VU041350.D

Acq: 19 Nov 2020 18:01

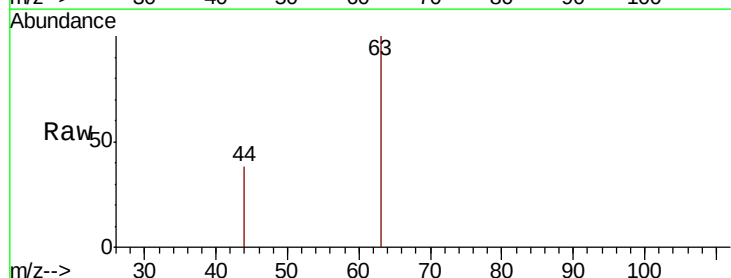
Tgt Ion: 63 Resp: 555

Ion Ratio Lower Upper

63 100

65 0.0 21.3 39.6#

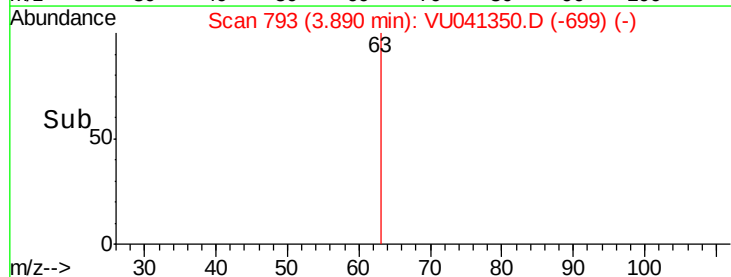
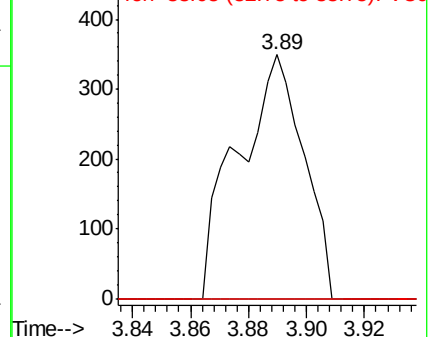
83 0.0 8.8 16.3#

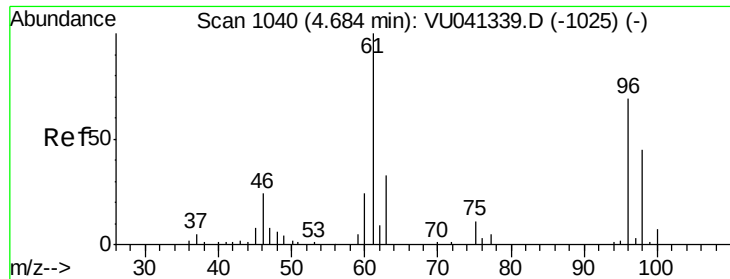


Abundance Ion 63.10 (62.80 to 63.80): VU0

Ion 65.10 (64.80 to 65.80): VU0

Ion 83.05 (82.75 to 83.75): VU0

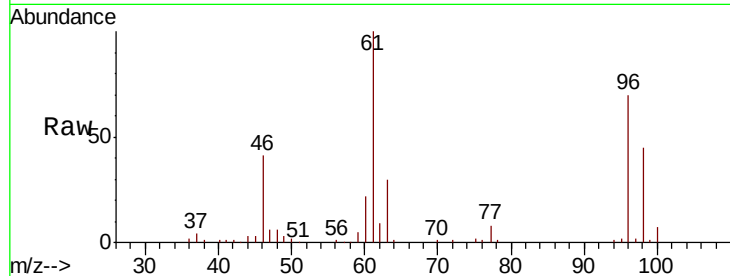




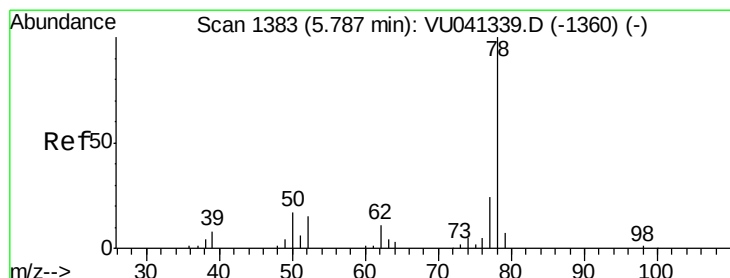
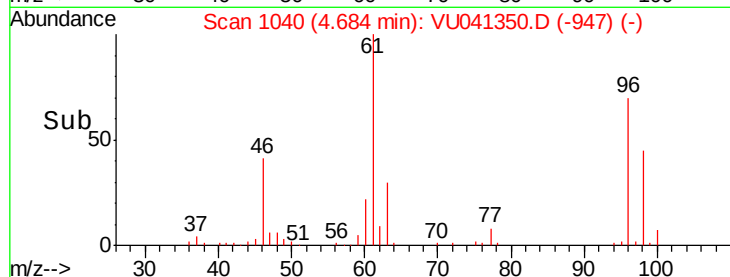
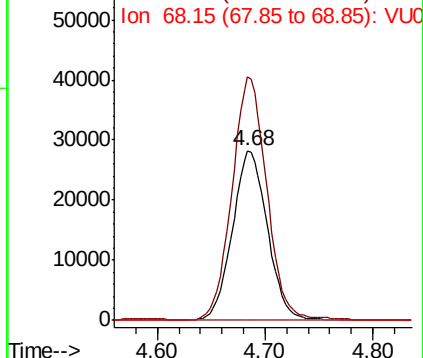
#22
 cis-1,2-Dichloroethene
 Concen: 14.692 ug/L
 RT: 4.68 min Scan# 1040
 Delta R.T. 0.00 min
 Lab File: VU041350.D
 Acq: 19 Nov 2020 18:01

Instrument :
 MSVOA_U
 ClientSampleID :
 H4430DL

Tot Ion: 96 Resp: 63585
 Ion Ratio Lower Upper
 96 100
 61 143.3 97.2 180.4
 68 0.0 0.0 0.0

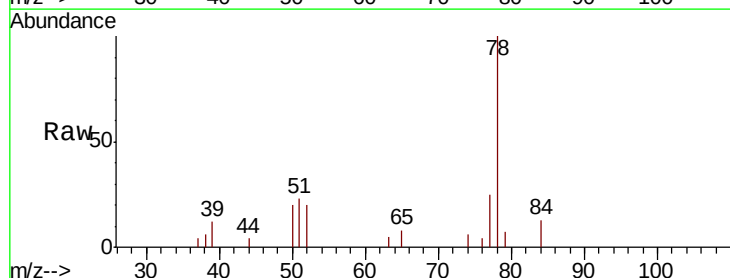


Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 68.15 (67.85 to 68.85): VU0

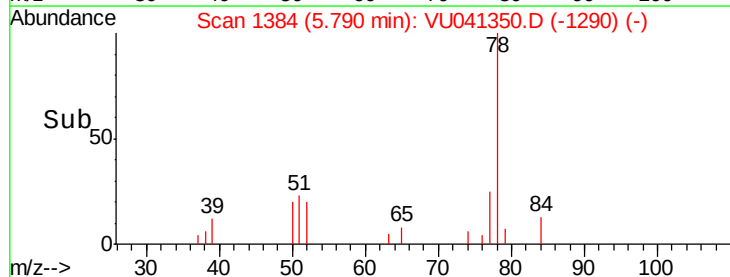
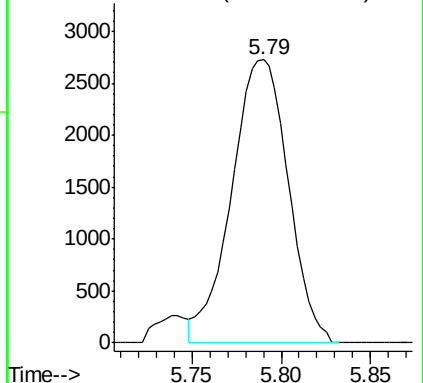


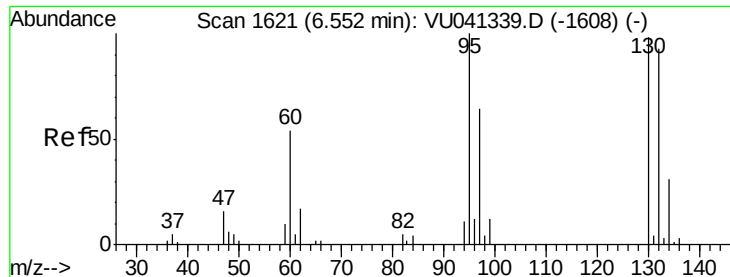
#33
 Benzene
 Concen: 0.368 ug/L
 RT: 5.79 min Scan# 1384
 Delta R.T. 0.00 min
 Lab File: VU041350.D
 Acq: 19 Nov 2020 18:01

Tgt Ion: 78 Resp: 6044



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 1.503 ug/L

RT: 6.56 min Scan# 1622

Delta R.T. 0.00 min

Lab File: VU041350.D

Acq: 19 Nov 2020 18:01

Instrument :

MSVOA_U

ClientSampled :

H4430DL

Tot Ion: 95 Resp: 6667

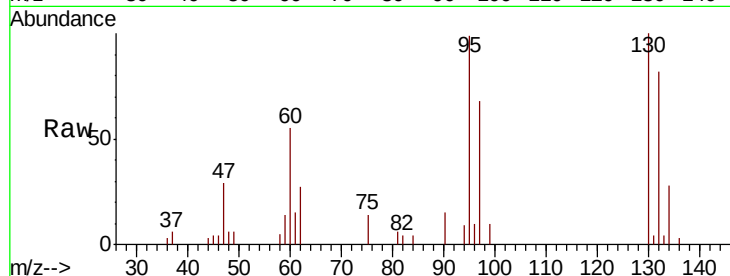
Ion Ratio Lower Upper

95 100

97 68.5 45.6 84.6

132 82.8 64.8 120.4

130 101.0 64.8 120.4

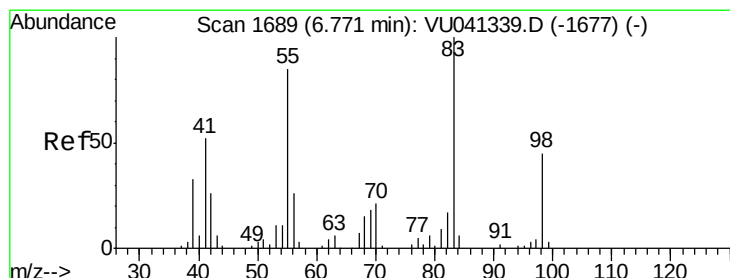
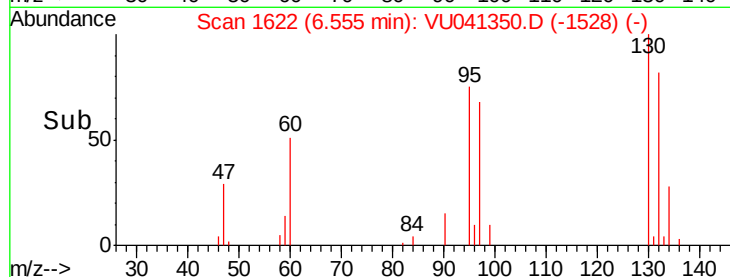
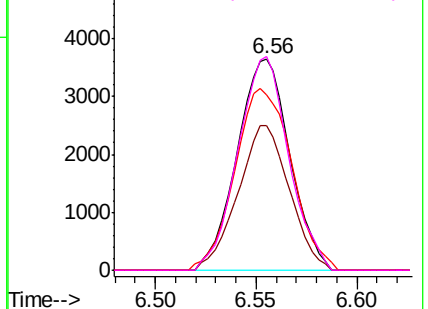


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 1.063 ug/L

RT: 6.71 min Scan# 1669

Delta R.T. -0.06 min

Lab File: VU041350.D

Acq: 19 Nov 2020 18:01

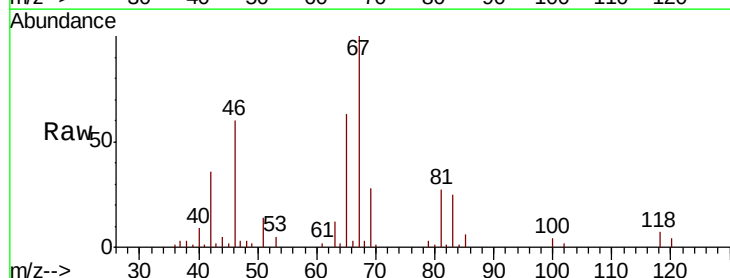
Tgt Ion: 83 Resp: 6266

Ion Ratio Lower Upper

83 100

55 0.0 72.0 108.0#

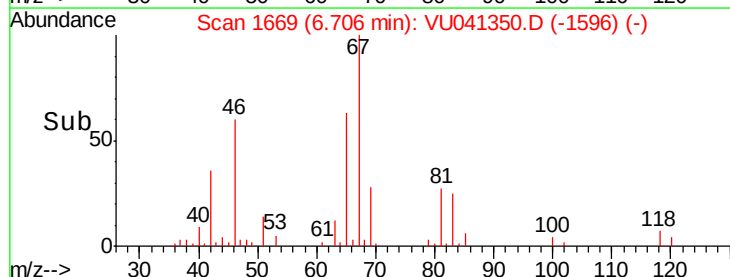
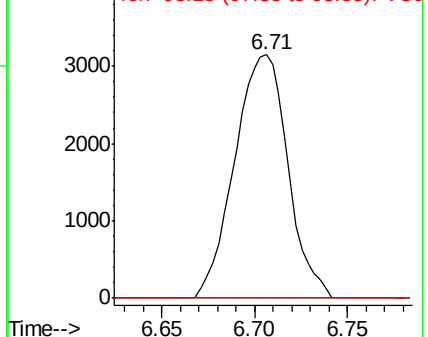
98 0.9 36.6 55.0#

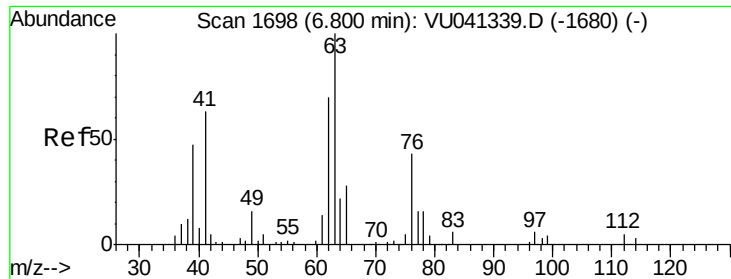


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

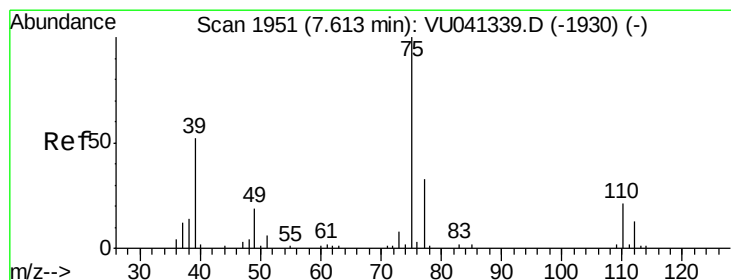
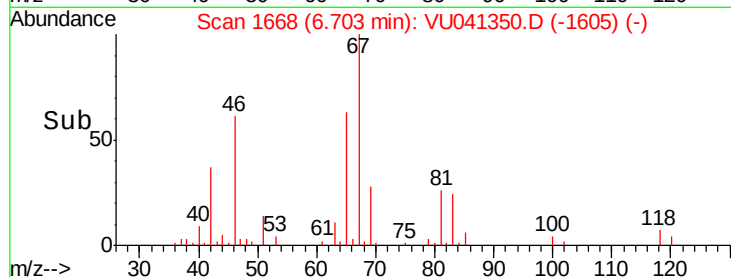
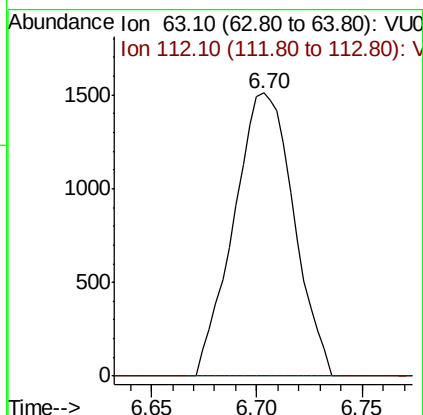
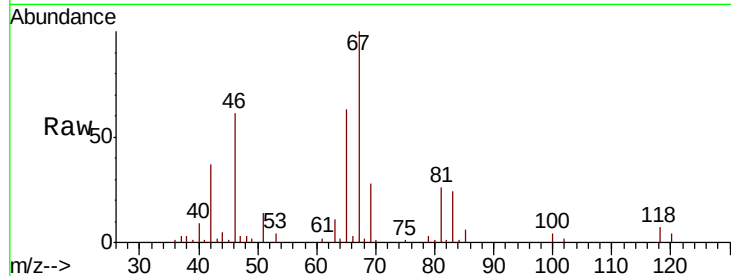




#37
 1,2-Dichloropropane
 Concen: 0.622 ug/L
 RT: 6.70 min Scan# 1668
 Delta R.T. -0.10 min
 Lab File: VU041350.D
 Acq: 19 Nov 2020 18:01

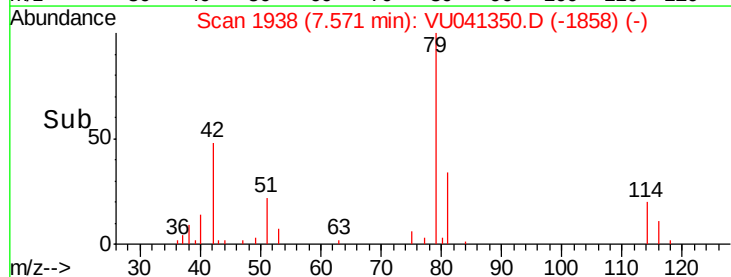
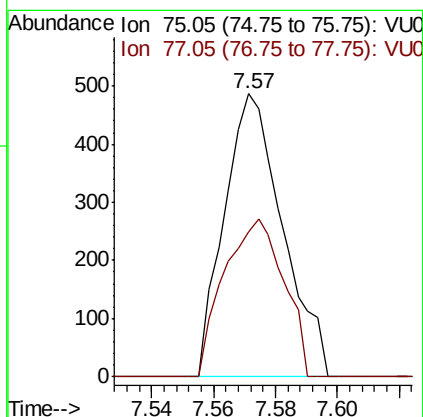
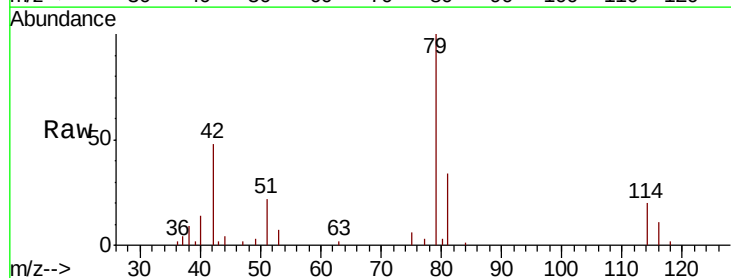
Instrument :
 MSVOA_U
 ClientSampleId :
 H4430DL

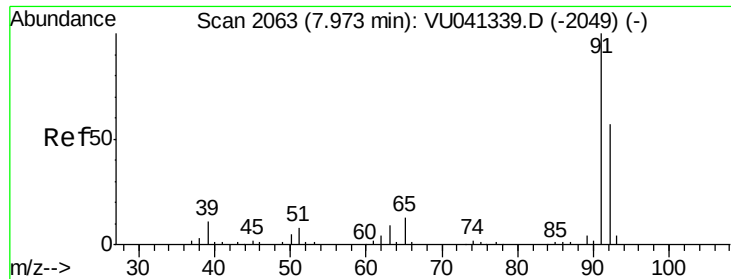
Tot Ion: 63 Resp: 2983
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.6 5.4#



#39
 cis-1,3-Dichloropropene
 Concen: 0.095 ug/L
 RT: 7.57 min Scan# 1938
 Delta R.T. -0.04 min
 Lab File: VU041350.D
 Acq: 19 Nov 2020 18:01

Tgt Ion: 75 Resp: 637
 Ion Ratio Lower Upper
 75 100
 77 51.1 22.7 42.3#





#42

Toluene

Concen: 1.559 ug/L

RT: 7.98 min Scan# 2064

Delta R.T. 0.00 min

Lab File: VU041350.D

Acq: 19 Nov 2020 18:01

Instrument :

MSVOA_U

ClientSampleId :

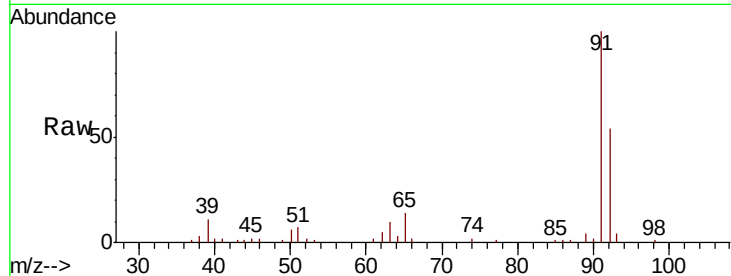
H4430DL

Tot Ion: 91 Resp: 27348

Ion Ratio Lower Upper

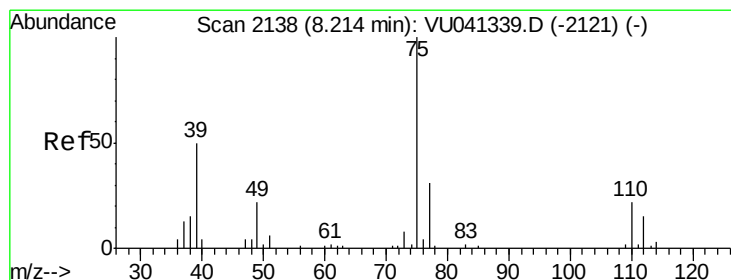
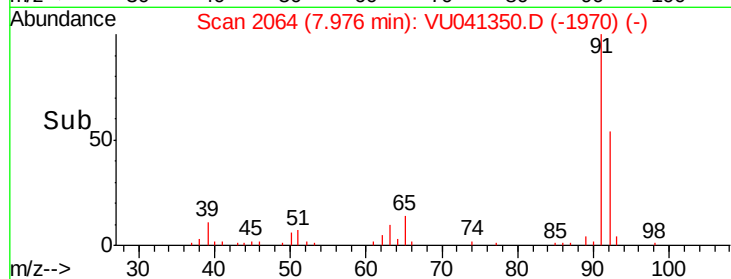
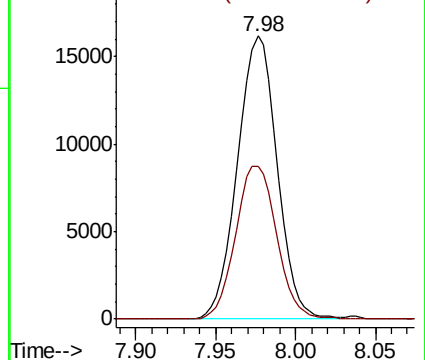
91 100

92 53.9 40.6 75.4



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: 0.070 ug/L

RT: 8.19 min Scan# 2130

Delta R.T. -0.03 min

Lab File: VU041350.D

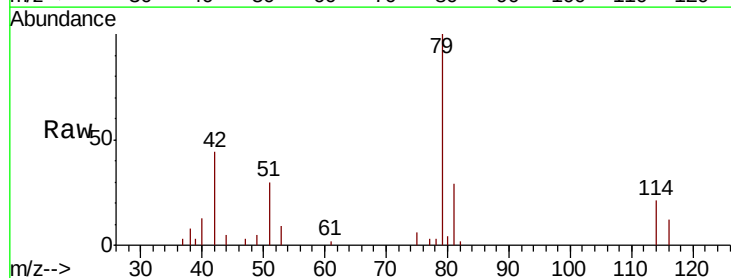
Acq: 19 Nov 2020 18:01

Tgt Ion: 75 Resp: 442

Ion Ratio Lower Upper

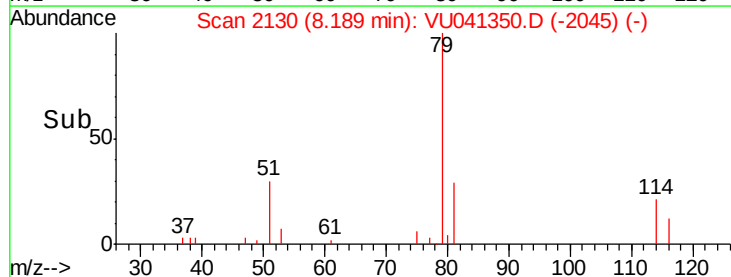
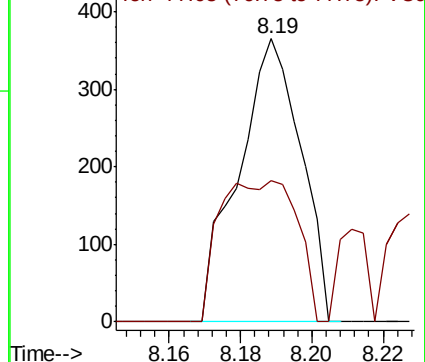
75 100

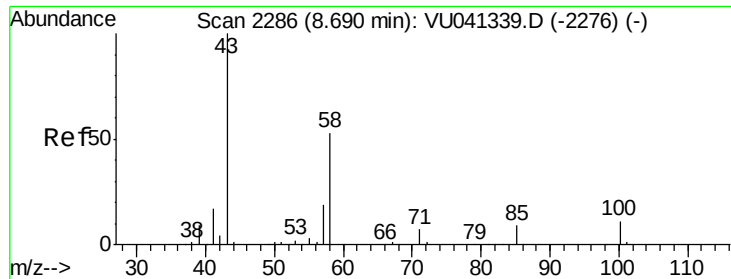
77 49.9 23.3 43.3#



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0

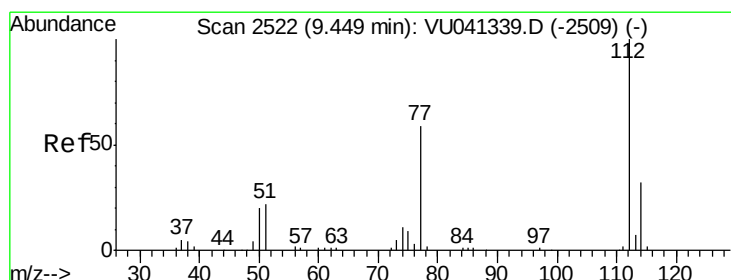
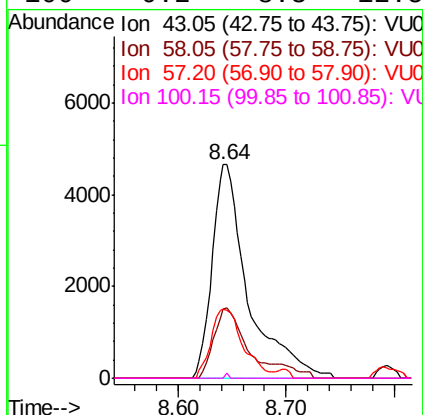
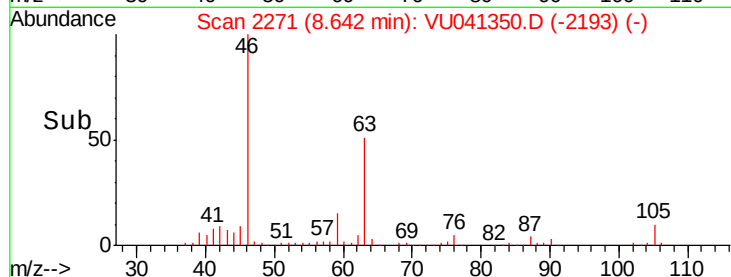
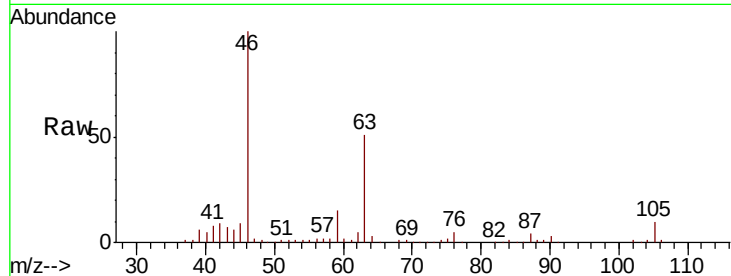




#48
2-Hexanone
Concen: 3.635 ug/L
RT: 8.64 min Scan# 2271
Delta R.T. -0.05 min
Lab File: VU041350.D
Acq: 19 Nov 2020 18:01

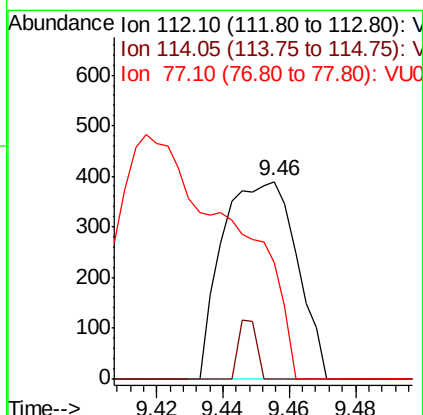
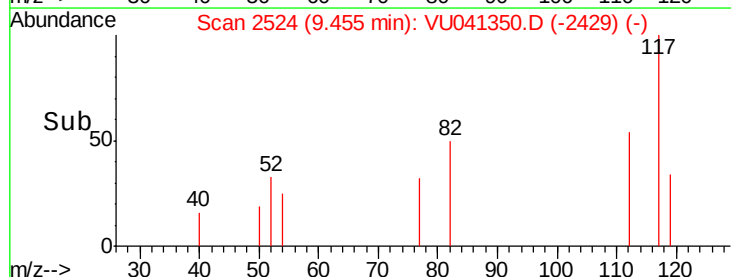
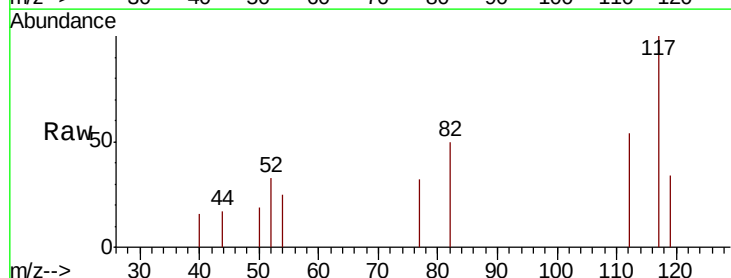
Instrument :
MSVOA_U
ClientSampleId :
H4430DL

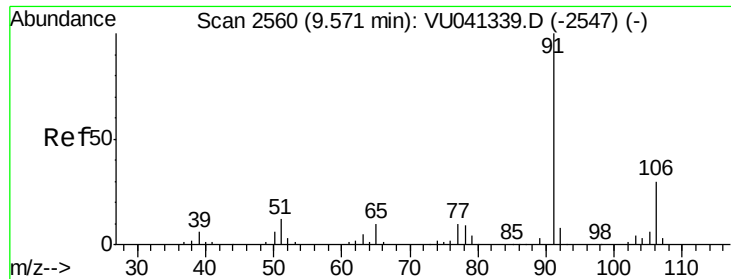
Tot Ion: 43 Resp: 10771
Ion Ratio Lower Upper
43 100
58 28.8 41.4 62.2#
57 28.8 14.6 21.8#
100 0.2 8.3 12.5#



#51
Chlorobenzene
Concen: 0.052 ug/L
RT: 9.46 min Scan# 2524
Delta R.T. 0.01 min
Lab File: VU041350.D
Acq: 19 Nov 2020 18:01

Tgt Ion: 112 Resp: 606
Ion Ratio Lower Upper
112 100
114 0.0 22.4 41.6#
77 58.5 51.2 76.8





#52

Ethylbenzene

Concen: 0.325 ug/L

RT: 9.57 min Scan# 2560

Delta R.T. -0.00 min

Lab File: VU041350.D

Acq: 19 Nov 2020 18:01

Instrument :

MSVOA_U

ClientSampleId :

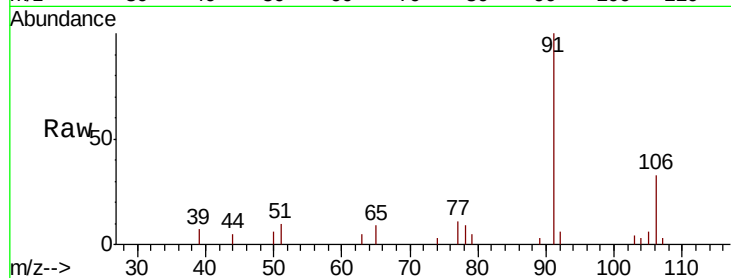
H4430DL

Tot Ion: 91 Resp: 6092

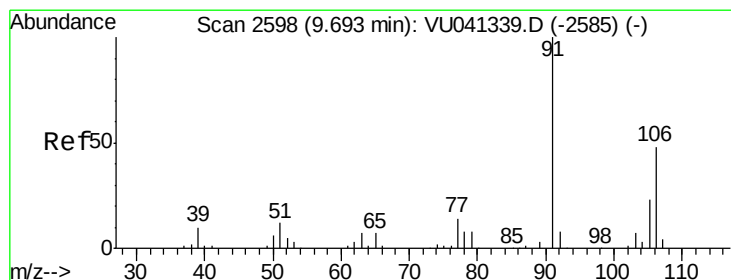
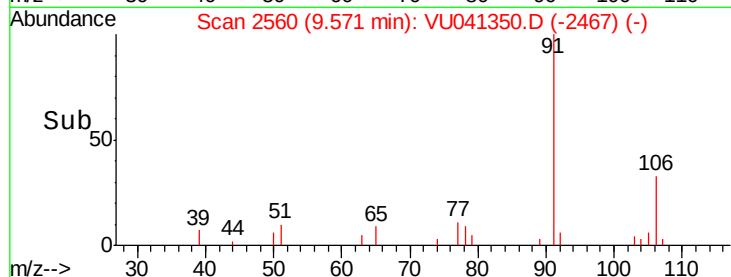
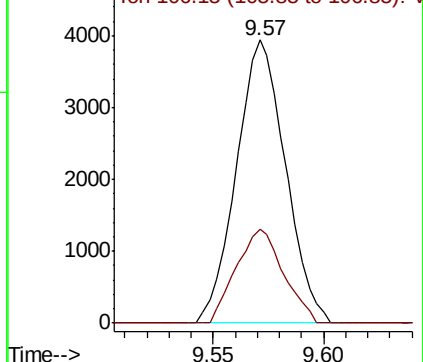
Ion Ratio Lower Upper

91 100

106 33.3 21.0 39.0



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



#53

m,p-Xylene

Concen: 0.685 ug/L

RT: 9.70 min Scan# 2599

Delta R.T. 0.00 min

Lab File: VU041350.D

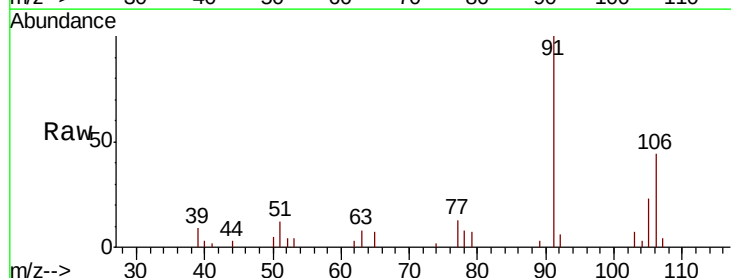
Acq: 19 Nov 2020 18:01

Tgt Ion: 106 Resp: 4638

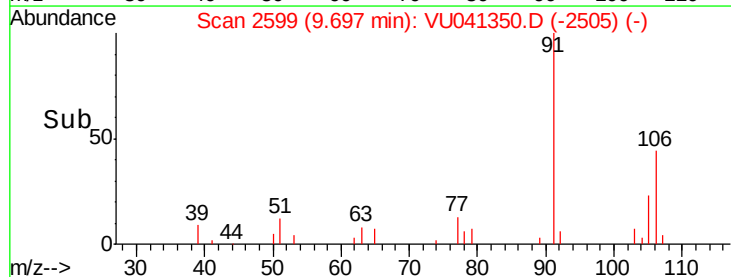
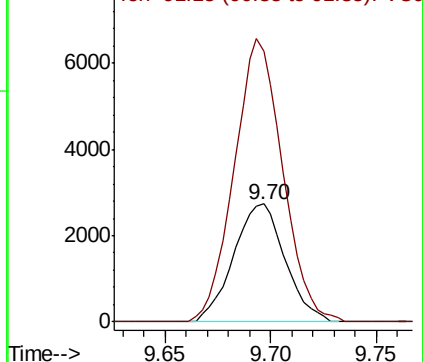
Ion Ratio Lower Upper

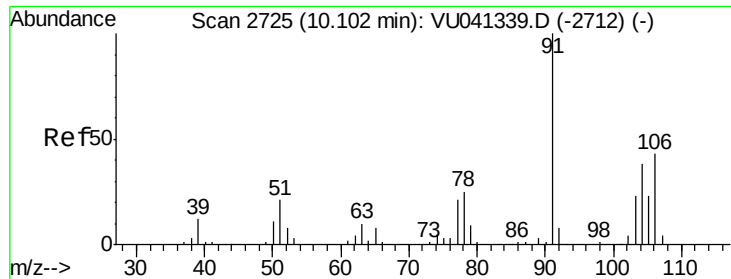
106 100

91 229.0 150.9 280.3



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

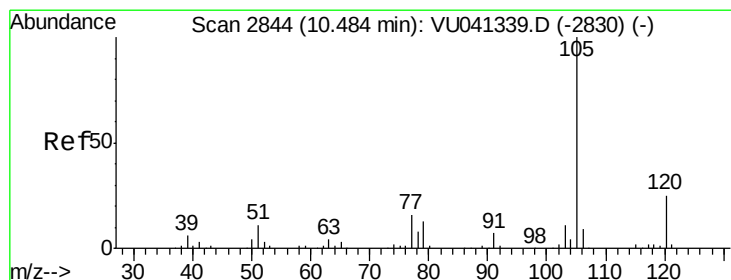
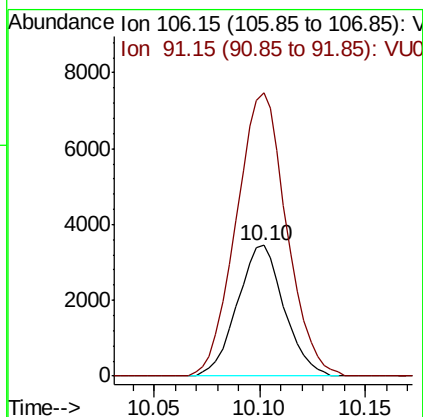
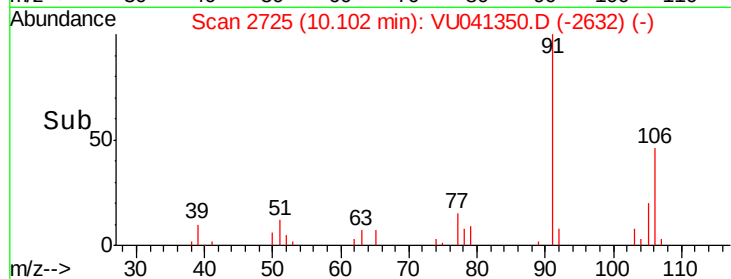
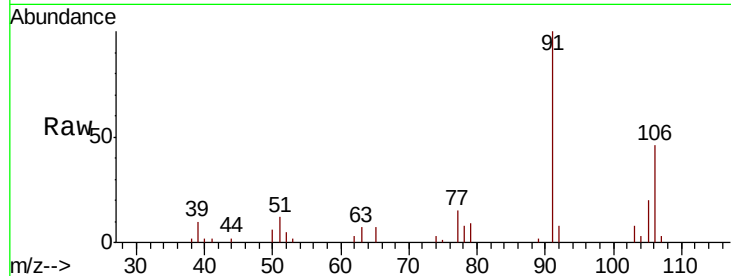




#54
o-Xylene
Concen: 0.814 ug/L
RT: 10.10 min Scan# 2725
Delta R.T. 0.00 min
Lab File: VU041350.D
Acq: 19 Nov 2020 18:01

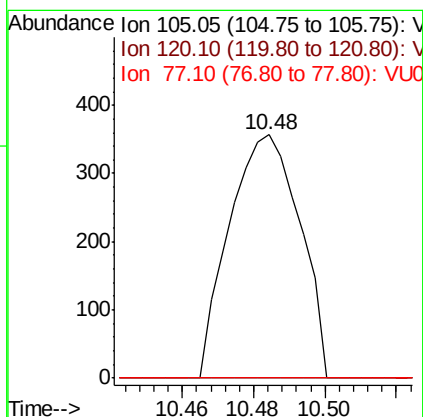
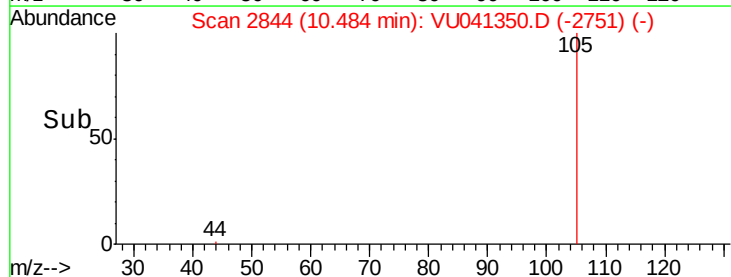
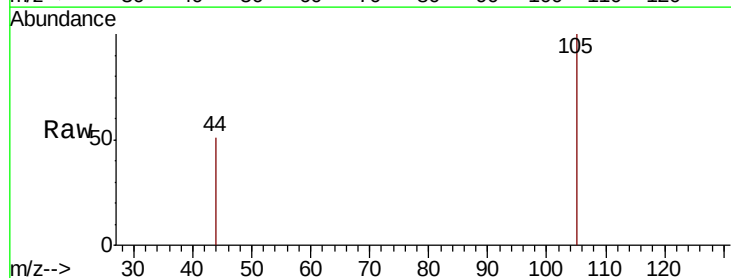
Instrument :
MSVOA_U
ClientSampled :
H4430DL

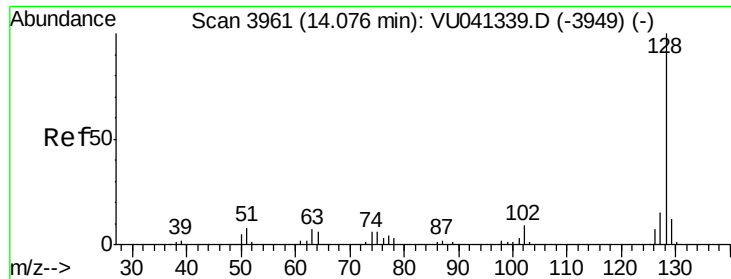
Tot Ion:106 Resp: 5309
Ion Ratio Lower Upper
106 100
91 216.7 154.3 286.5



#56
Isopropylbenzene
Concen: 0.028 ug/L
RT: 10.48 min Scan# 2844
Delta R.T. -0.00 min
Lab File: VU041350.D
Acq: 19 Nov 2020 18:01

Tgt Ion:105 Resp: 486
Ion Ratio Lower Upper
105 100
120 0.0 20.7 31.1#
77 0.0 13.8 20.6#





#69

Naphthalene

Concen: 0.095 ug/L

RT: 14.08 min Scan# 3962

Delta R.T. 0.00 min

Lab File: VU041350.D

Acq: 19 Nov 2020 18:01

Instrument :

MSVOA_U

ClientSampleId :

H4430DL

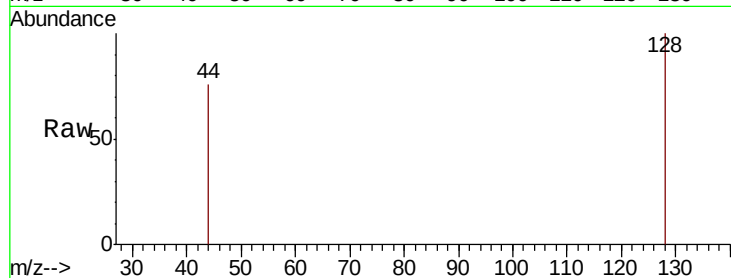
Tot Ion:128 Resp: 696

Ion Ratio Lower Upper

128 100

129 9.6 8.7 13.1

127 0.0 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

