

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU060920\
 Data File : VU038708.D
 Acq On : 09 Jun 2020 08:10
 Operator : SY/MD
 Sample : L2913-05
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 F9D84

Quant Time: Jun 10 00:34:51 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060820WMA.M
 Quant Title : VOC Analysis
 QLast Update : Wed Jun 10 00:33:15 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	755900	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	734448	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.82	152	379623	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	232274	55.00	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	110.00%
7) Chloroethane-d5	1.93	69	196604	60.01	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	120.02%
11) 1,1-Dichloroethene-d2	2.59	63	336374	36.55	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	73.10%
21) 2-Butanone-d5	4.67	46	456770	111.17	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	111.17%
24) Chloroform-d	5.10	84	426749	46.87	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.74%
26) 1,2-Dichloroethane-d4	5.75	65	135261	22.41	ug/L	0.01
Spiked Amount	50.000	Range	70 - 125	Recovery	=	44.82%#
32) Benzene-d6	5.80	84	872296	49.31	ug/L	0.04
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.62%
36) 1,2-Dichloropropane-d6	6.72	67	303786	55.72	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	111.44%
41) Toluene-d8	7.92	98	883477	55.26	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	110.52%
43) trans-1,3-Dichloropropene-	8.20	79	152135	55.42	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	110.84%
47) 2-Hexanone-d5	8.65	63	343314	118.29	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	118.29%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	448962	55.20	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	110.40%
64) 1,2-Dichlorobenzene-d4	12.20	152	356596	54.10	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	108.20%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chloromethane	1.67	50	196732	34.070	ug/L	85
13) Acetone	2.66	43	68726	20.758	ug/L	94
15) Methyl Acetate	2.99	43	94802	13.702	ug/L #	51
16) Methylene chloride	3.08	84	5442	0.958	ug/L #	63
19) 1,1-Dichloroethane	3.92	63	9906	0.999	ug/L	96
22) 2-Butanone	4.75	43	112929	22.241	ug/L	97
27) 1,2-Dichloroethane	5.89	62	7852998	956.080	ug/L #	91
29) Cyclohexane	5.43	56	1680404	199.984	ug/L	100
35) Methylcyclohexane	6.79	83	146848	17.554	ug/L	98
37) 1,2-Dichloropropane	6.82	63	125830	22.140	ug/L	100
39) cis-1,3-Dichloropropene	7.60	75	14293	1.631	ug/L	88
40) 4-Methyl-2-pentanone	7.82	43	42313	4.762	ug/L	99
45) 1,1,2-Trichloroethane	8.42	97	10598	1.937	ug/L	88
48) 2-Hexanone	8.71	43	49625	6.757	ug/L #	95
53) m,p-Xylene	9.71	106	4094355	423.795	ug/L	99
54) o-xylene	10.12	106	5679361	605.548	ug/L	98
55) Styrene	10.12	104	499874	30.745	ug/L #	1

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QLast Update : Wed Jun 10 00:33:15 2020
Response via : Initial Calibration

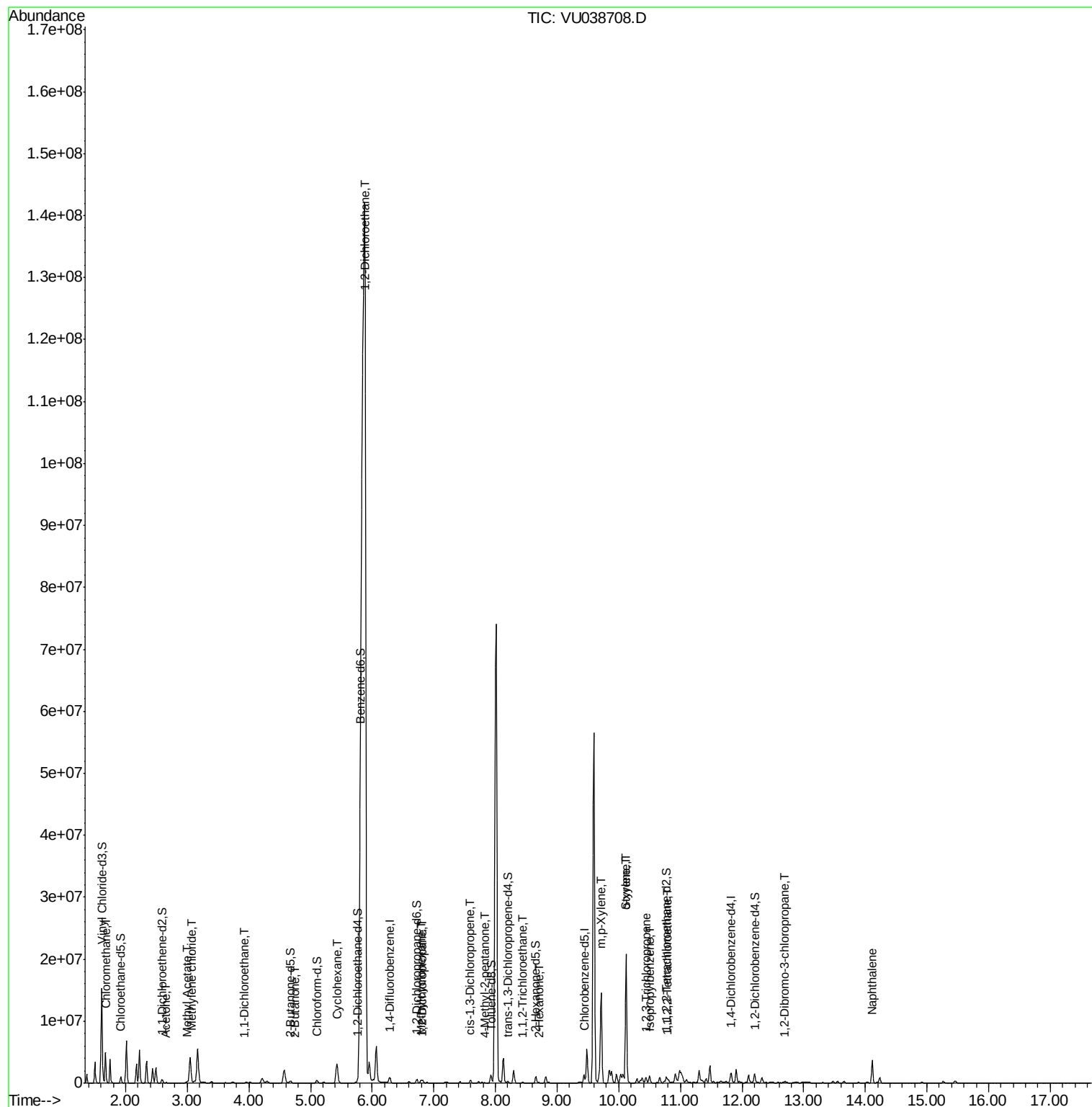
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
56) Isopropylbenzene	10.50	105	785541	32.092	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.80	83	22338	2.399	ug/L	89
59) 1,2,3-Trichloropropane	10.44	75	7747	0.972	ug/L	89
66) 1,2-Dibromo-3-chloropropan	12.69	75	4101	1.697	ug/L #	4
69) Naphthalene	14.11	128	2918087	104.028	ug/L	100

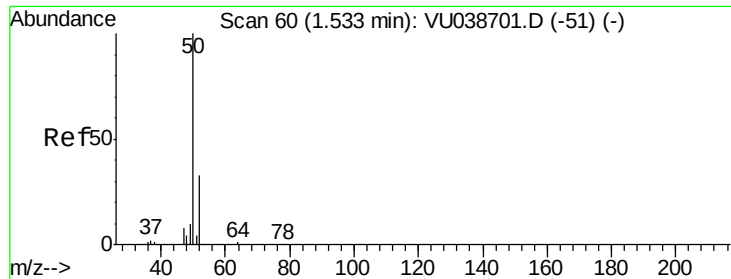
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 34.070 ug/L

RT: 1.67 min Scan# 104

Delta R.T. 0.14 min

Lab File: VU038708.D

Acq: 09 Jun 2020 08:10

Instrument :

MSVOA_U

ClientSampleId :

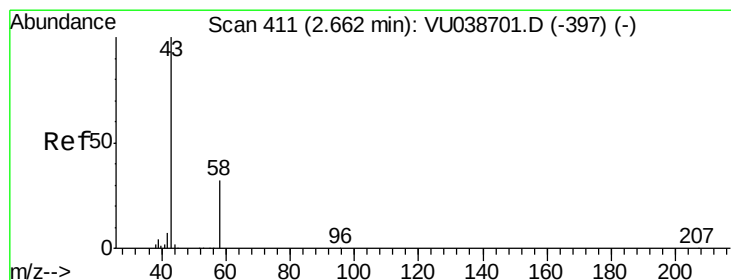
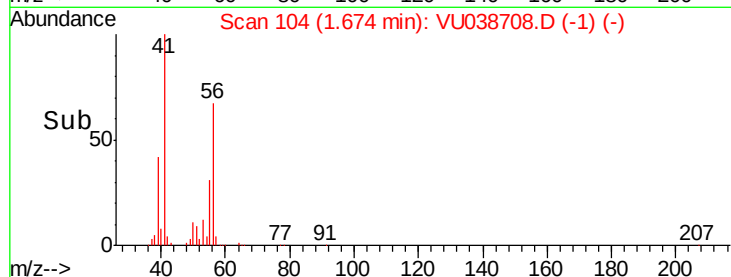
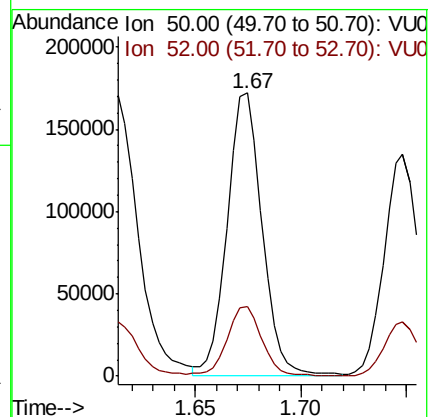
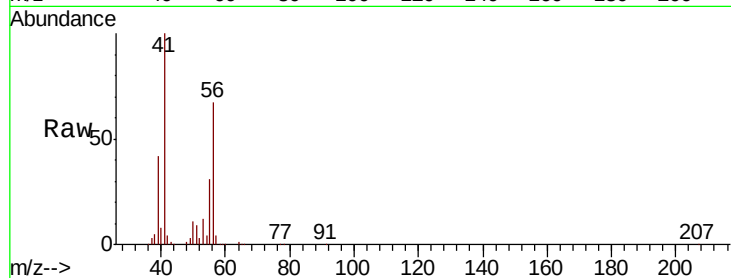
F9D84

Tot Ion: 50 Resp: 196732

Ion Ratio Lower Upper

50 100

52 24.6 23.2 43.2



#13

Acetone

Concen: 20.758 ug/L

RT: 2.66 min Scan# 412

Delta R.T. 0.00 min

Lab File: VU038708.D

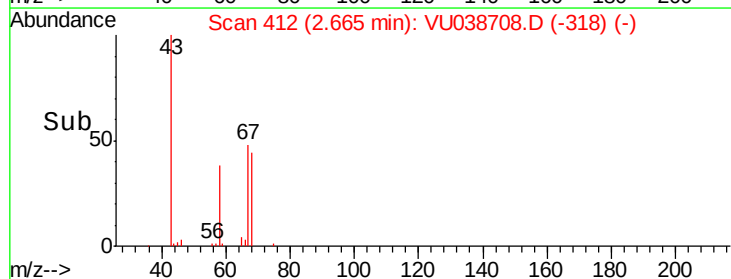
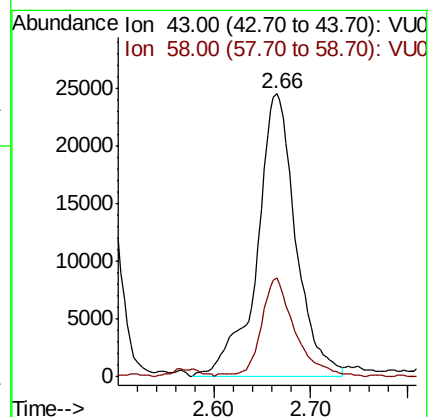
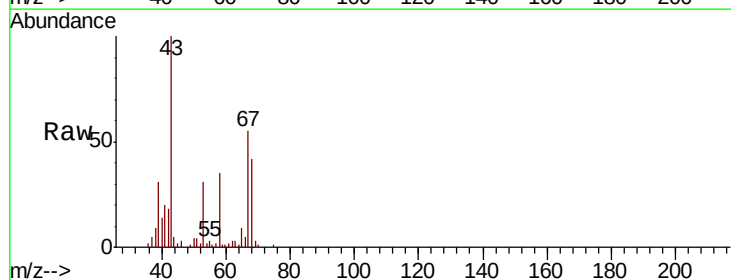
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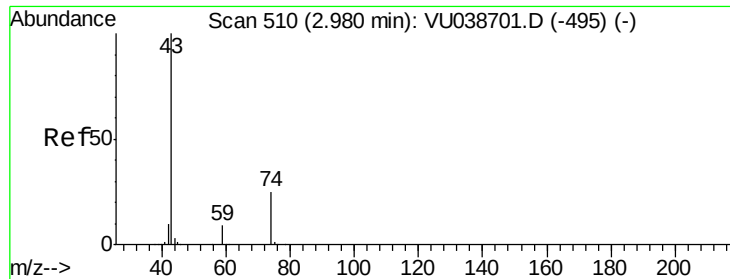
Tgt Ion: 43 Resp: 68726

Ion Ratio Lower Upper

43 100

58 30.2 0.0 67.6

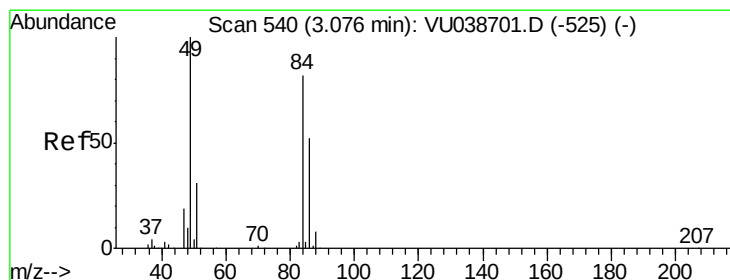
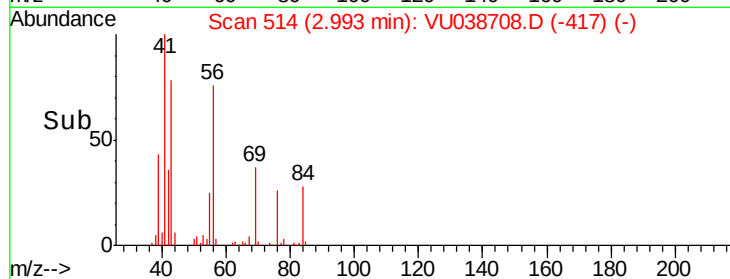
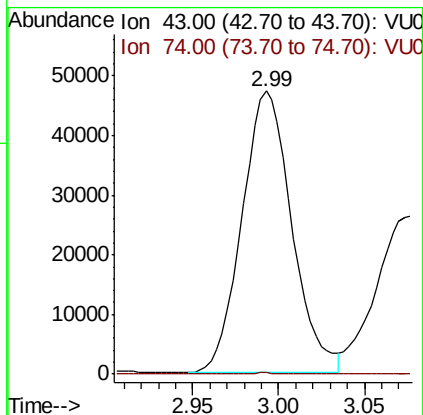
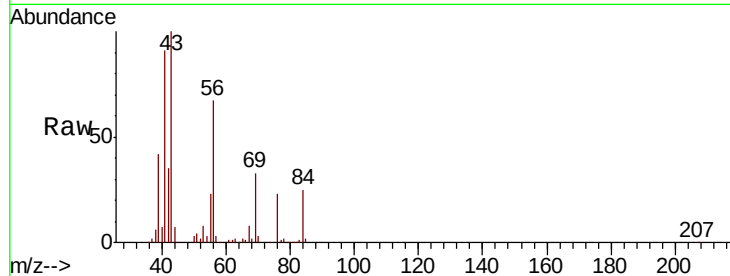




#15
Methvl Acetate
Concen: 13.702 ug/L
RT: 2.99 min Scan# 514
Delta R.T. 0.01 min
Lab File: VU038708.D
Acq: 09 Jun 2020 08:10

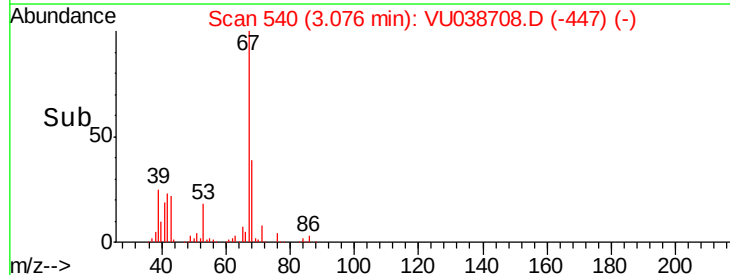
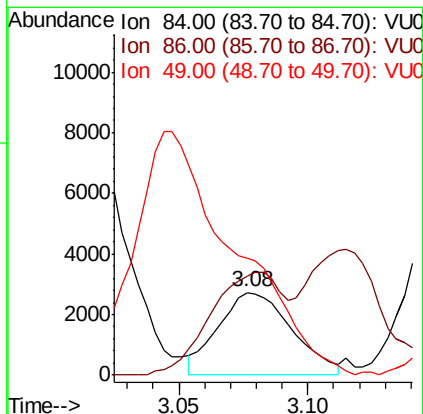
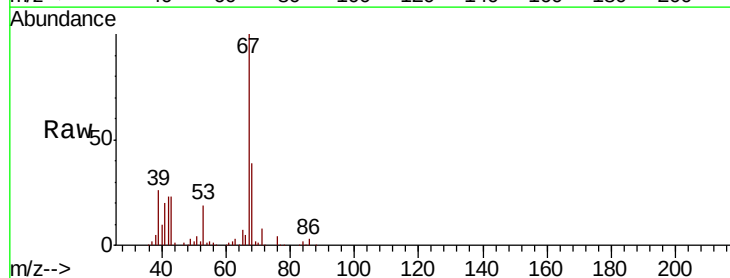
Instrument :
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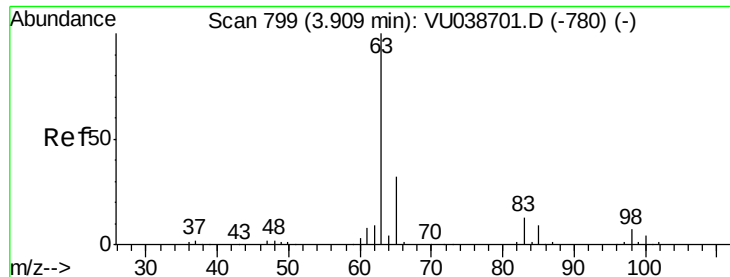
Tot Ion: 43 Resp: 94802
Ion Ratio Lower Upper
43 100
74 0.3 19.7 29.5#



#16
Methylene chloride
Concen: 0.958 ug/L
RT: 3.08 min Scan# 540
Delta R.T. -0.00 min
Lab File: VU038708.D
Acq: 09 Jun 2020 08:10

Tgt Ion: 84 Resp: 5442
Ion Ratio Lower Upper
84 100
86 119.8 44.7 83.1#
49 141.8 84.5 156.9

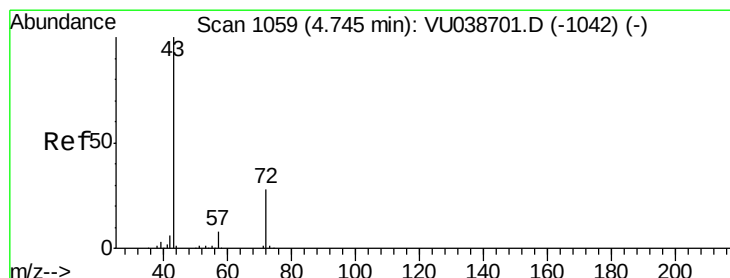
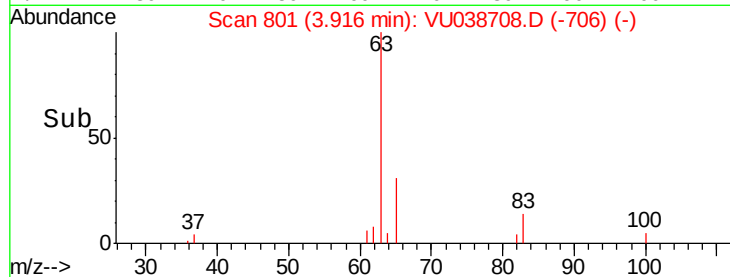
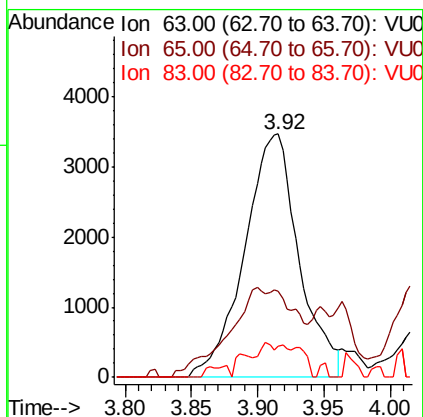
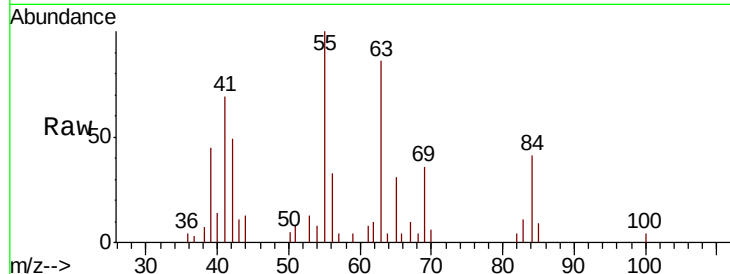




#19
 1,1-Dichloroethane
 Concen: 0.999 ug/L
 RT: 3.92 min Scan# 801
 Delta R.T. 0.01 min
 Lab File: VU038708.D
 Acq: 09 Jun 2020 08:10

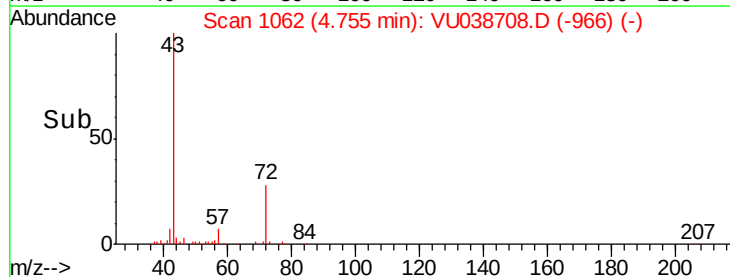
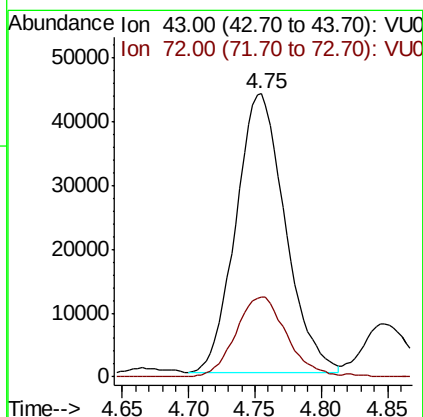
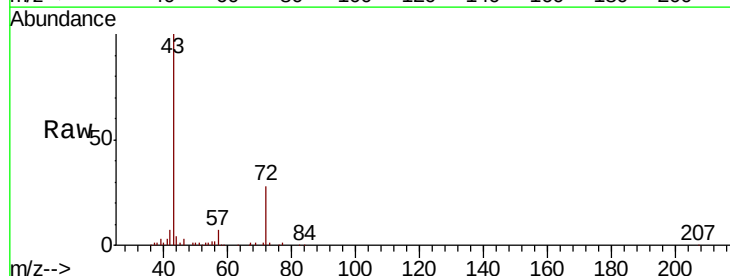
Instrument :
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 ClientSampleId :
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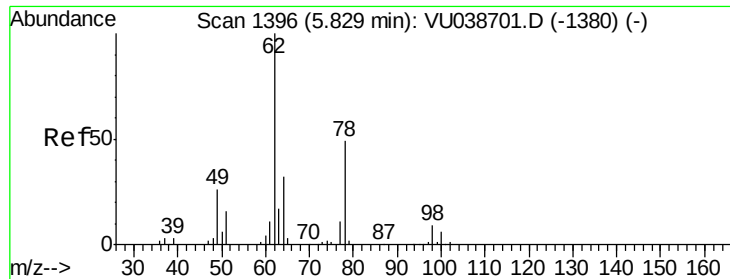
Tot Ion: 63 Resp: 9906
 Ion Ratio Lower Upper
 63 100
 65 35.6 23.0 42.8
 83 12.8 9.2 17.2



#22
 2-Butanone
 Concen: 22.241 ug/L
 RT: 4.75 min Scan# 1062
 Delta R.T. 0.01 min
 Lab File: VU038708.D
 Acq: 09 Jun 2020 08:10

Tgt Ion: 43 Resp: 112929
 Ion Ratio Lower Upper
 43 100
 72 29.6 14.1 42.3

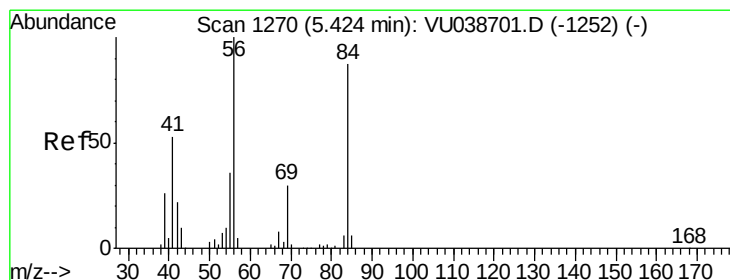
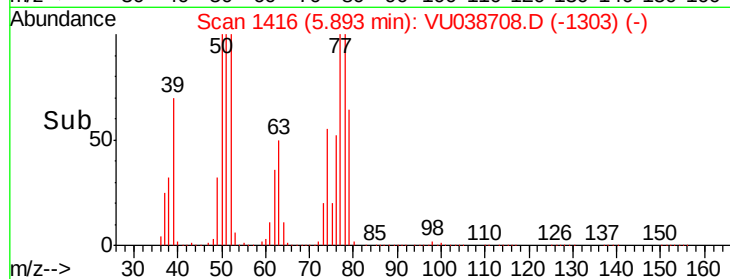
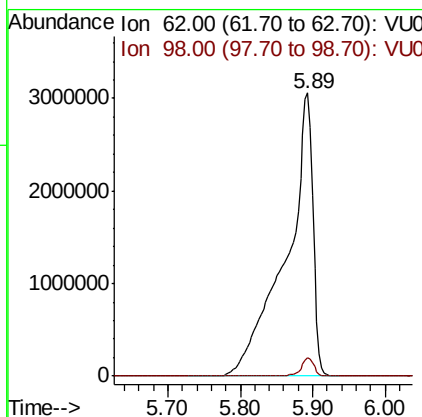
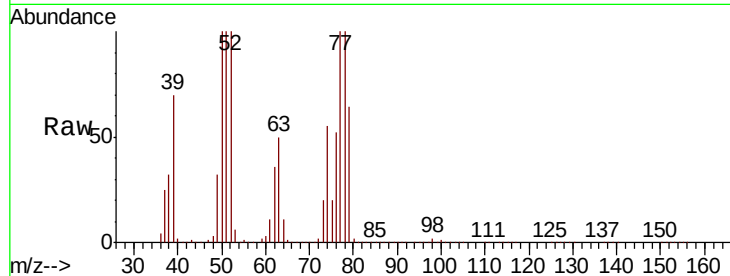




#27
 1,2-Dichloroethane
 Concen: 956.080 ug/L
 RT: 5.89 min Scan# 1416
 Delta R.T. 0.06 min
 Lab File: VU038708.D
 Acq: 09 Jun 2020 08:10

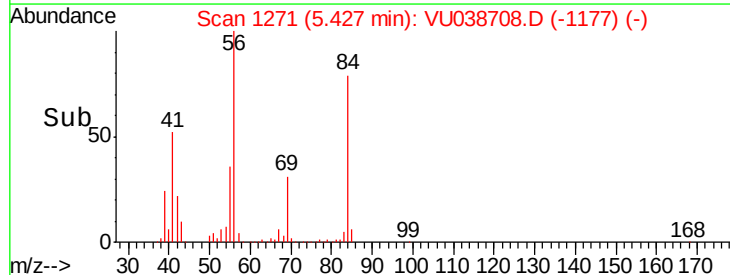
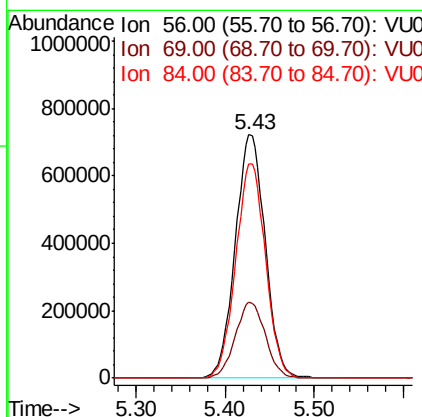
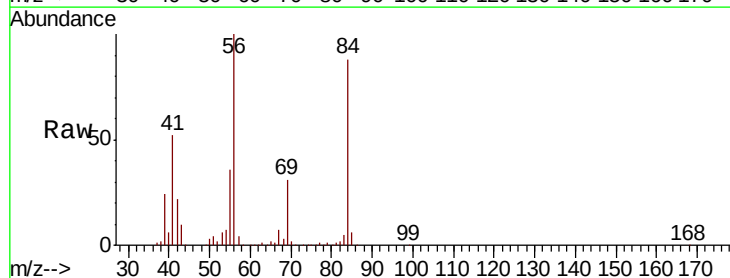
Instrument :
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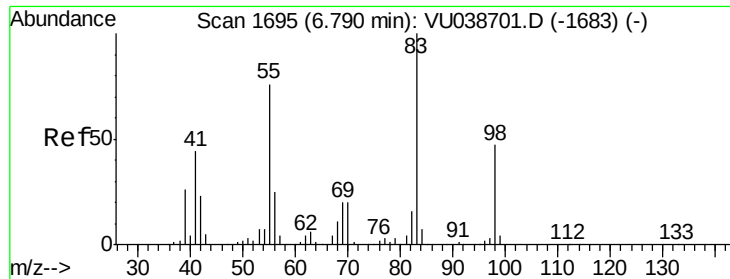
Tot Ion: 62 Resp: 7852998
 Ion Ratio Lower Upper
 62 100
 98 6.3 7.8 11.6#



#29
 Cyclohexane
 Concen: 199.984 ug/L
 RT: 5.43 min Scan# 1271
 Delta R.T. 0.00 min
 Lab File: VU038708.D
 Acq: 09 Jun 2020 08:10

Tgt Ion: 56 Resp: 1680404
 Ion Ratio Lower Upper
 56 100
 69 31.5 25.1 37.7
 84 87.6 70.5 105.7

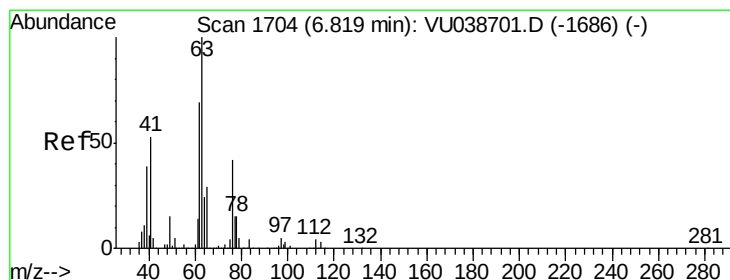
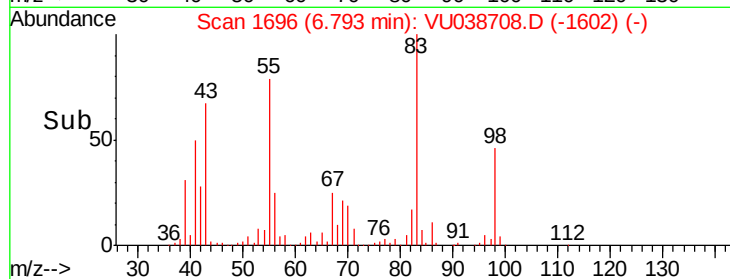
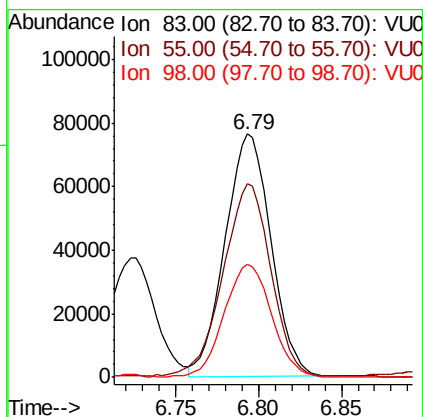
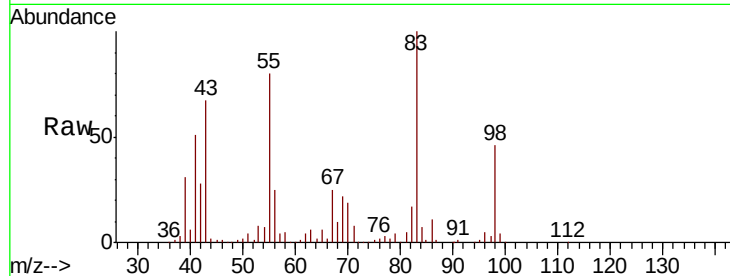




#35
Methylvlcyclohexane
Concen: 17.554 ug/L
RT: 6.79 min Scan# 1696
Delta R.T. 0.00 min
Lab File: VU038708.D
Acq: 09 Jun 2020 08:10

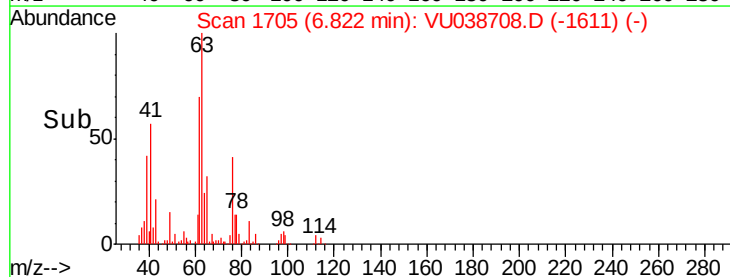
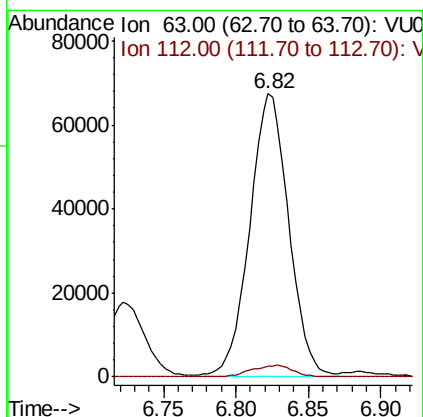
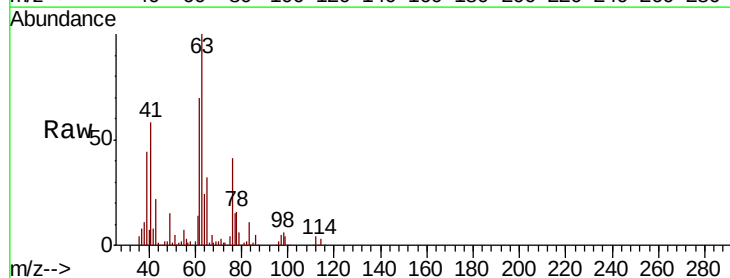
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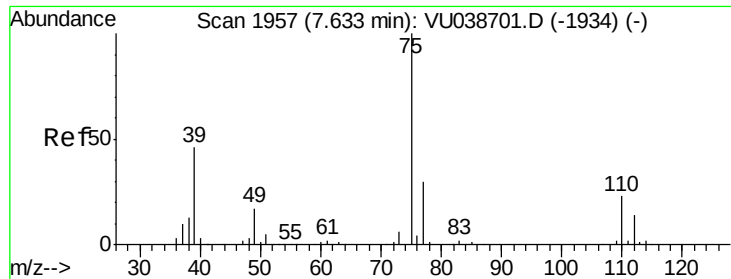
Tot Ion: 83 Resp: 146848
Ion Ratio Lower Upper
83 100
55 82.4 63.2 94.8
98 48.2 38.4 57.6



#37
1,2-Dichloropropane
Concen: 22.140 ug/L
RT: 6.82 min Scan# 1705
Delta R.T. 0.00 min
Lab File: VU038708.D
Acq: 09 Jun 2020 08:10

Tgt Ion: 63 Resp: 125830
Ion Ratio Lower Upper
63 100
112 4.4 3.4 5.2

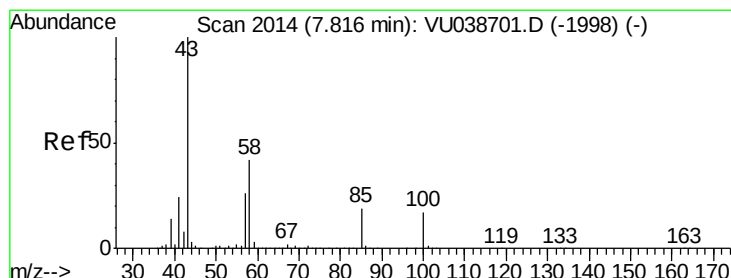
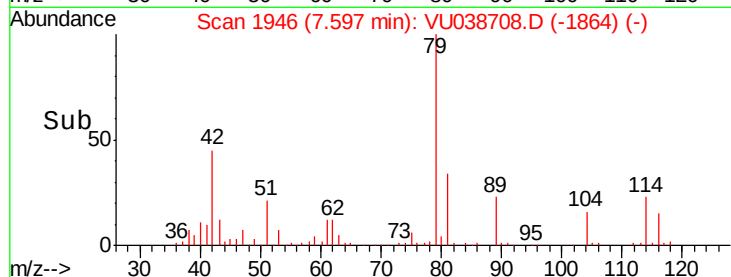
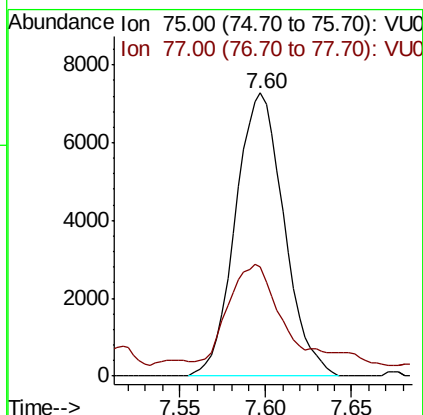
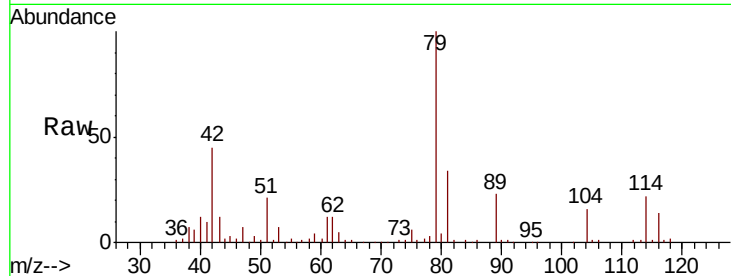




#39
 cis-1,3-Dichloropropene
 Concen: 1.631 ug/L
 RT: 7.60 min Scan# 1946
 Delta R.T. -0.04 min
 Lab File: VU038708.D
 Acq: 09 Jun 2020 08:10

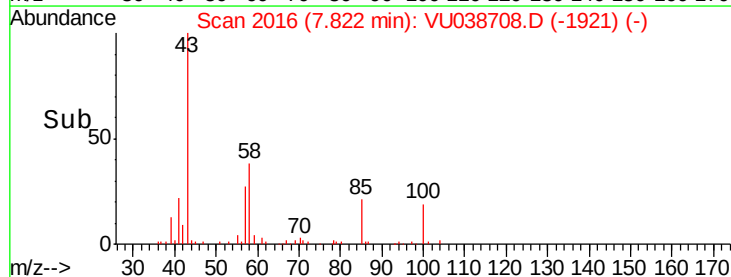
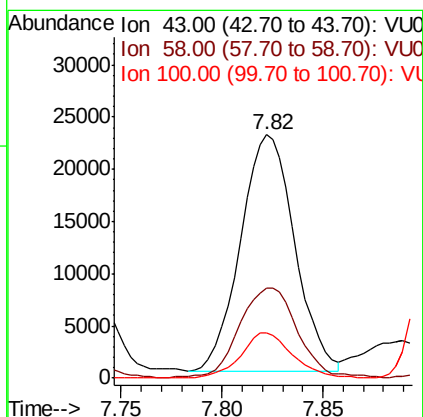
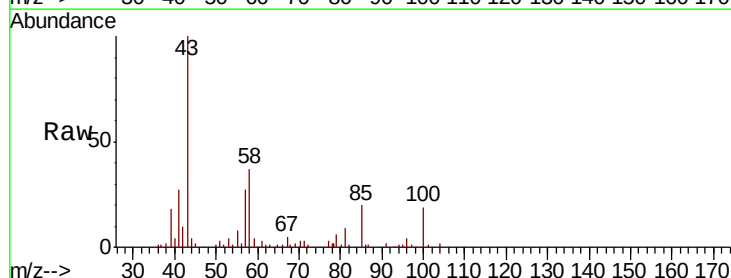
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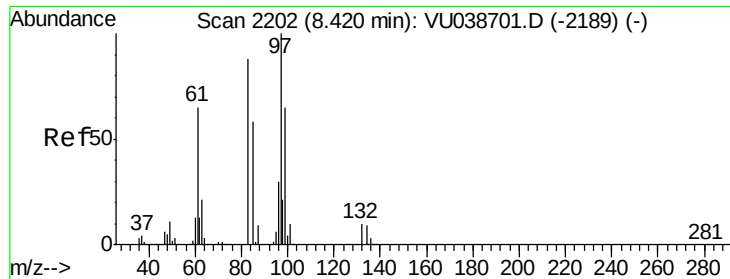
Tot Ion: 75 Resp: 14293
 Ion Ratio Lower Upper
 75 100
 77 38.4 22.2 41.2



#40
 4-Methyl-2-pentanone
 Concen: 4.762 ug/L
 RT: 7.82 min Scan# 2016
 Delta R.T. 0.01 min
 Lab File: VU038708.D
 Acq: 09 Jun 2020 08:10

Tgt Ion: 43 Resp: 42313
 Ion Ratio Lower Upper
 43 100
 58 41.3 33.0 49.4
 100 18.4 13.4 20.0





#45

1,1,2-Trichloroethane

Concen: 1.937 ug/L

RT: 8.42 min Scan# 2203

Delta R.T. 0.00 min

Lab File: VU038708.D

Acq: 09 Jun 2020 08:10

Instrument :

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ClientSampleId :

F9D84

Tot Ion: 97 Resp: 10598

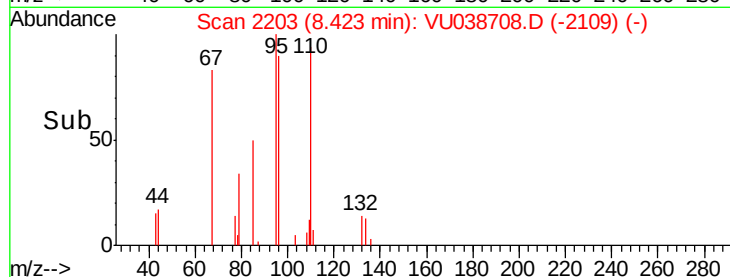
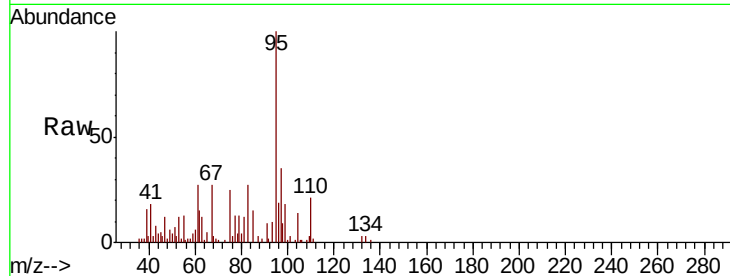
Ion Ratio Lower Upper

97 100

99 52.9 43.6 81.0

83 77.4 60.0 111.4

85 43.7 38.4 71.2

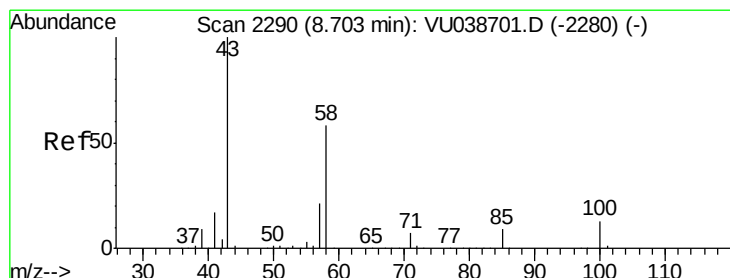
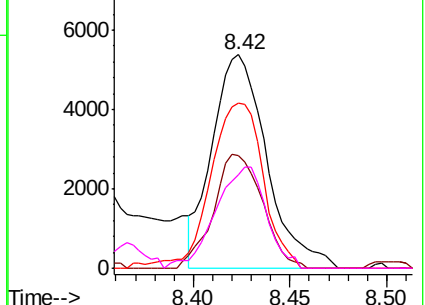


Abundance Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#48

2-Hexanone

Concen: 6.757 ug/L

RT: 8.71 min Scan# 2291

Delta R.T. 0.00 min

Lab File: VU038708.D

Acq: 09 Jun 2020 08:10

Tgt Ion: 43 Resp: 49625

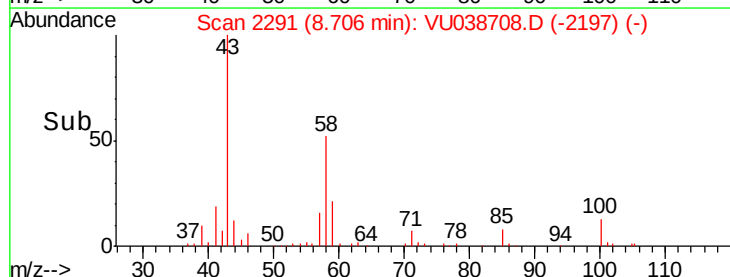
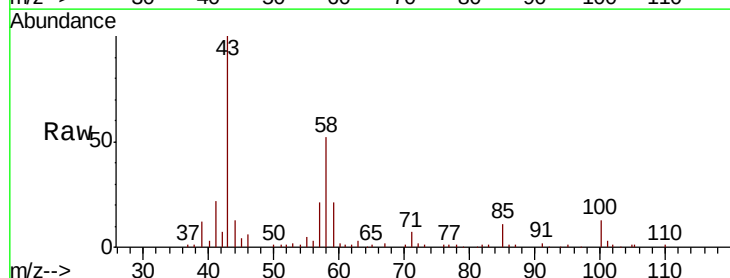
Ion Ratio Lower Upper

43 100

58 55.3 46.2 69.4

57 14.2 16.6 24.8#

100 13.3 10.6 16.0

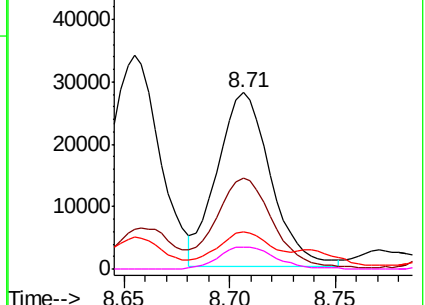


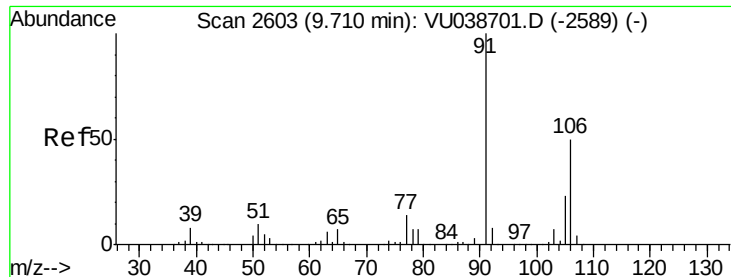
Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

Ion 57.00 (56.70 to 57.70): VU0

Ion 100.00 (99.70 to 100.70): VU0





#53

m,p-Xylene

Concen: 423.795 ug/L

RT: 9.71 min Scan# 2604

Delta R.T. 0.00 min

Lab File: VU038708.D

Acq: 09 Jun 2020 08:10

Instrument :

MSVOA_U

ClientSampleId :

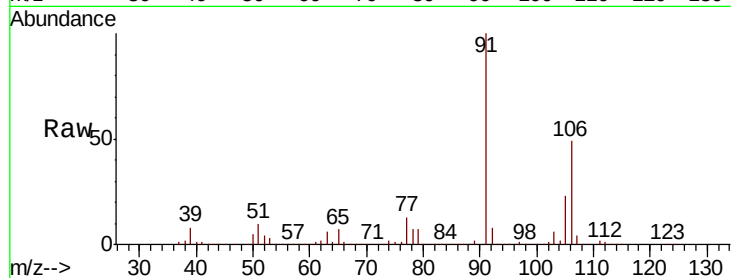
F9D84

Tot Ion:106 Resp: 4094355

Ion Ratio Lower Upper

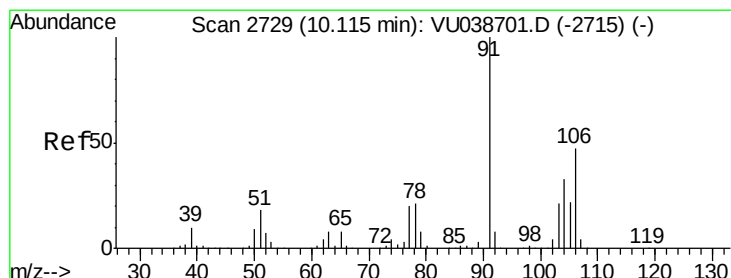
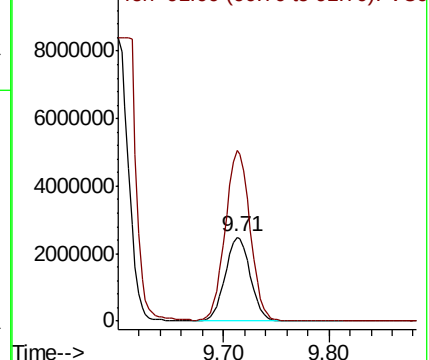
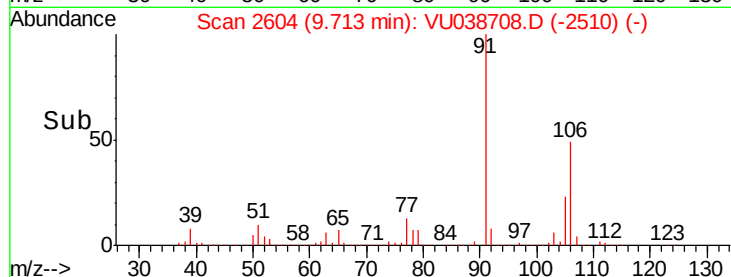
106 100

91 202.3 140.1 260.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#54

o-xylene

Concen: 605.548 ug/L

RT: 10.12 min Scan# 2730

Delta R.T. 0.00 min

Lab File: VU038708.D

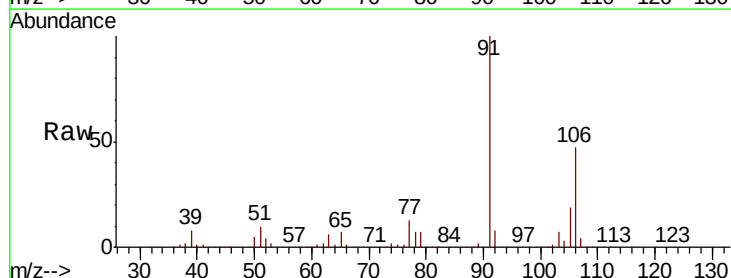
Acq: 09 Jun 2020 08:10

Tgt Ion:106 Resp: 5679361

Ion Ratio Lower Upper

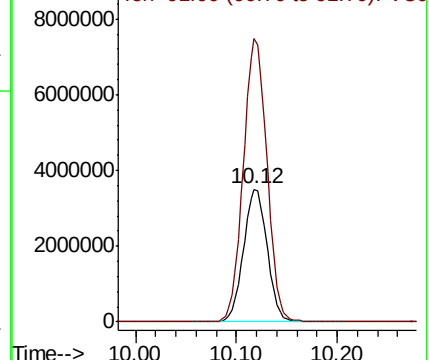
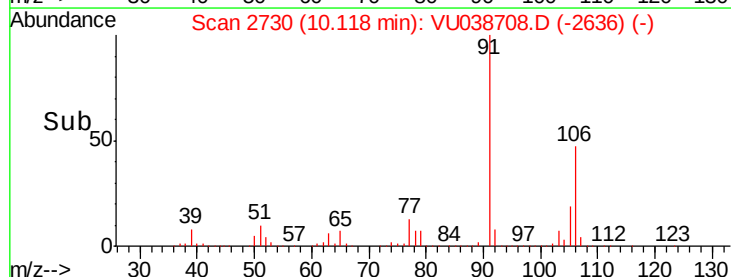
106 100

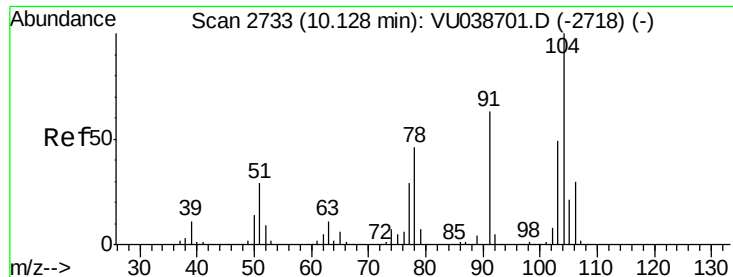
91 213.4 151.2 280.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0





#55

Stvrene

Concen: 30.745 ug/L

RT: 10.12 min Scan# 2732

Delta R.T. -0.00 min

Lab File: VU038708.D

Acq: 09 Jun 2020 08:10

Instrument :

MSVOA_U

ClientSampleId :

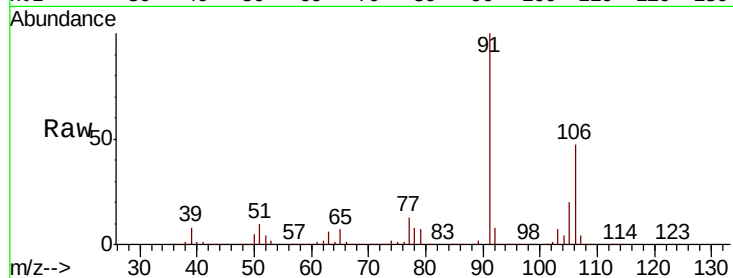
F9D84

Tot Ion:104 Resp: 499874

Ion Ratio Lower Upper

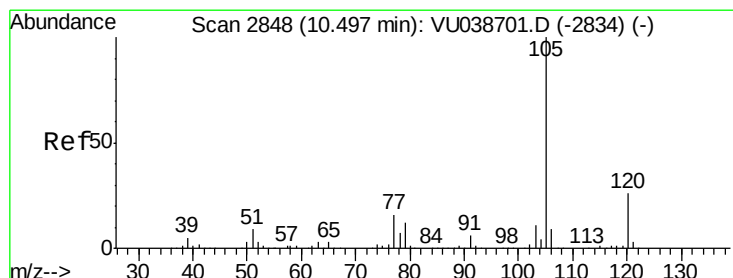
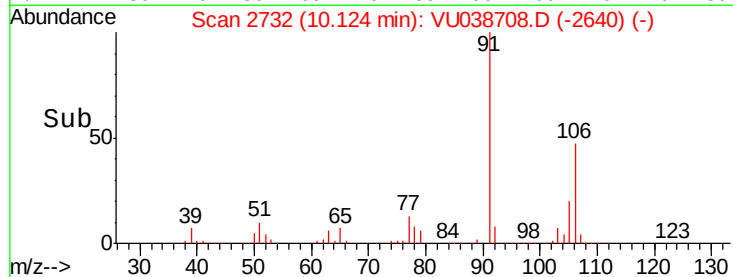
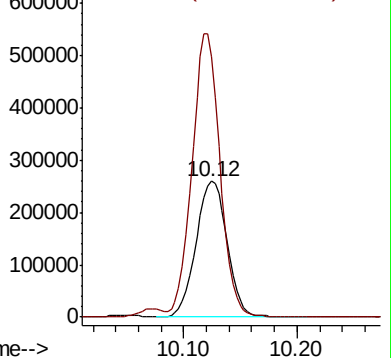
104 100

78 191.2 31.6 58.6#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0



#56

Isopropylbenzene

Concen: 32.092 ug/L

RT: 10.50 min Scan# 2849

Delta R.T. 0.00 min

Lab File: VU038708.D

Acq: 09 Jun 2020 08:10

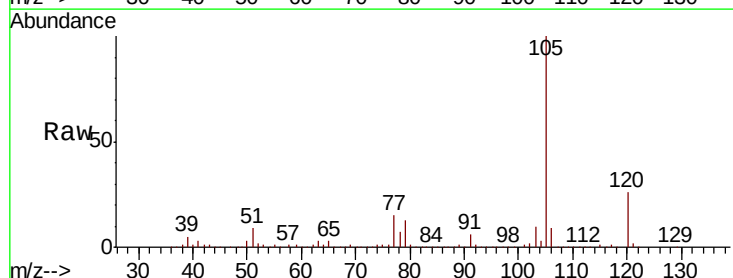
Tgt Ion:105 Resp: 785541

Ion Ratio Lower Upper

105 100

120 25.9 20.9 31.3

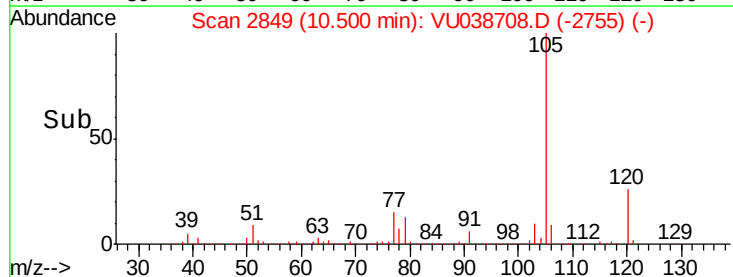
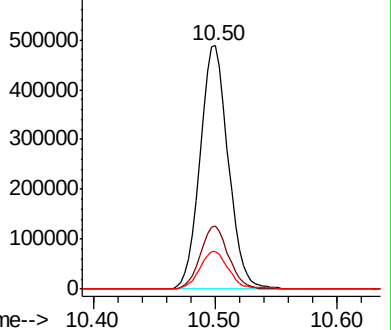
77 15.3 12.6 19.0

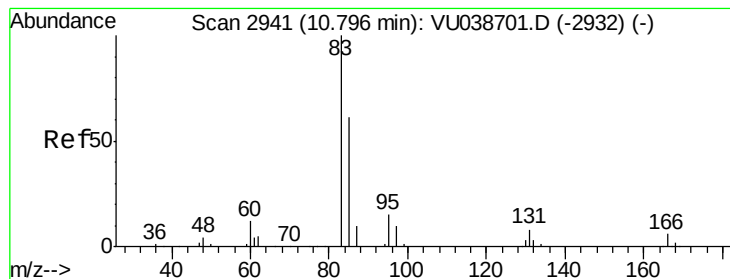


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): VU0





#58

1,1,2,2-Tetrachloroethane

Concen: 2.399 ug/L

RT: 10.80 min Scan# 2942

Delta R.T. 0.00 min

Lab File: VU038708.D

Acq: 09 Jun 2020 08:10

Instrument :

MSVOA_U

ClientSampleId :

F9D84

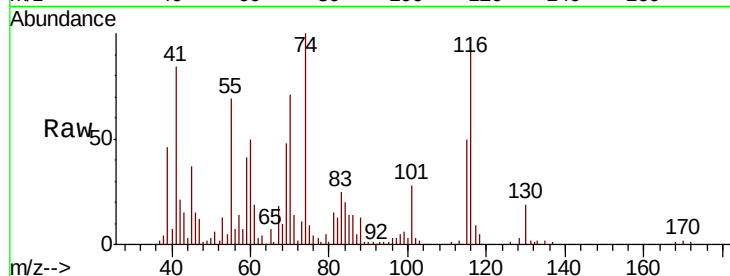
Tot Ion: 83 Resp: 22338

Ion Ratio Lower Upper

83 100

85 55.3 45.3 84.1

131 8.7 7.2 10.8

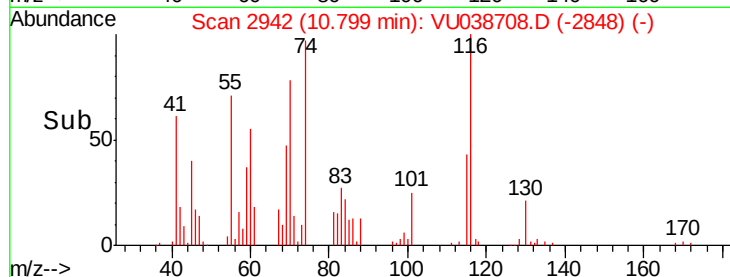


Abundance Ion 83.00 (82.70 to 83.70): VU038708.D (-2932) (-)

Ion 85.00 (84.70 to 85.70): VU038708.D (-2932) (-)

Ion 131.00 (130.70 to 131.70): VU038708.D (-2932) (-)

Time-->

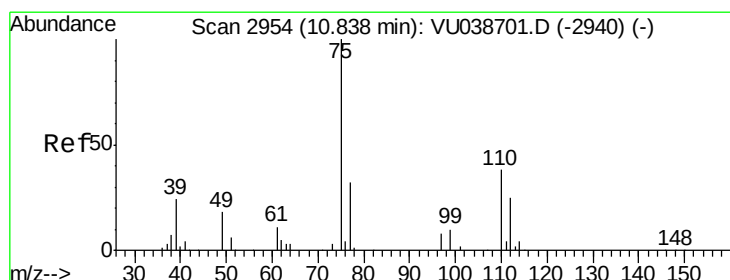


Abundance Ion 83.00 (82.70 to 83.70): VU038708.D (-2932) (-)

Ion 85.00 (84.70 to 85.70): VU038708.D (-2932) (-)

Ion 131.00 (130.70 to 131.70): VU038708.D (-2932) (-)

Time-->



#59

1,2,3-Trichloropropane

Concen: 0.972 ug/L

RT: 10.44 min Scan# 2831

Delta R.T. -0.40 min

Lab File: VU038708.D

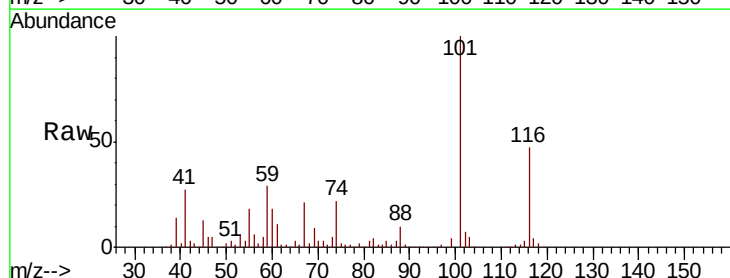
Acq: 09 Jun 2020 08:10

Tgt Ion: 75 Resp: 7747

Ion Ratio Lower Upper

75 100

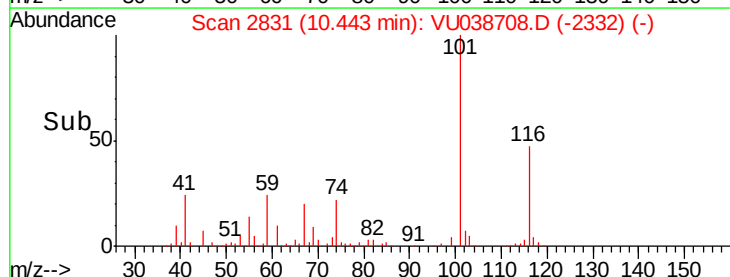
77 25.4 25.3 37.9



Abundance Ion 75.00 (74.70 to 75.70): VU038708.D (-2831) (-)

Ion 77.00 (76.70 to 77.70): VU038708.D (-2831) (-)

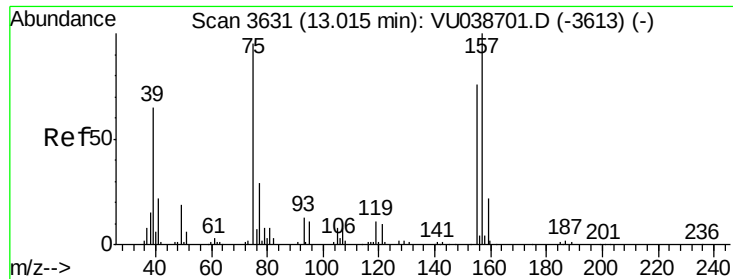
Time-->



Abundance Ion 75.00 (74.70 to 75.70): VU038708.D (-2831) (-)

Ion 77.00 (76.70 to 77.70): VU038708.D (-2831) (-)

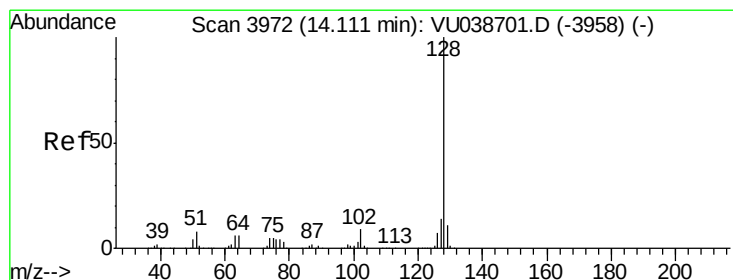
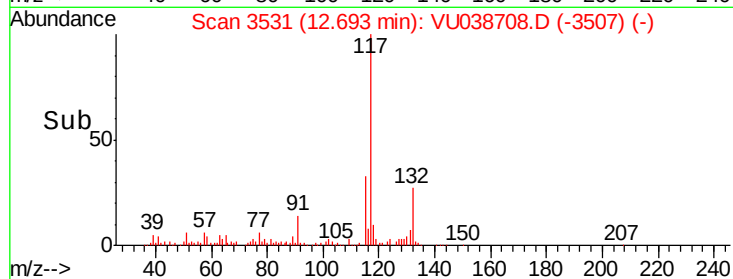
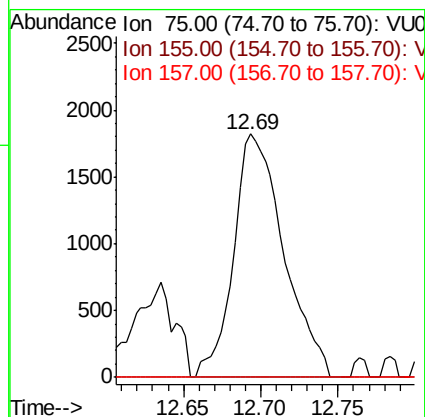
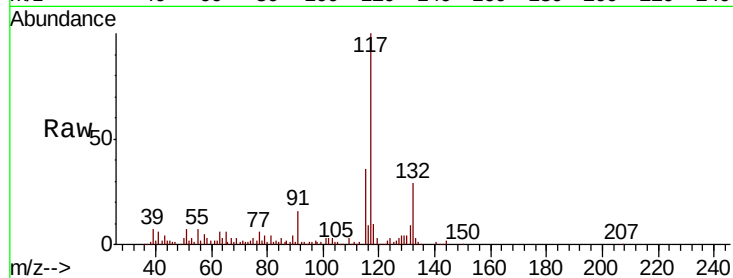
Time-->



#66
 1,2-Dibromo-3-chloropropane
 Concen: 1.697 ug/L
 RT: 12.69 min Scan# 3531
 Delta R.T. -0.32 min
 Lab File: VU038708.D
 Acq: 09 Jun 2020 08:10

Instrument :
 MSVOA_U
 ClientSampleId :
 F9D84

Tot Ion: 75 Resp: 4101
 Ion Ratio Lower Upper
 75 100
 155 0.0 63.8 95.6#
 157 0.0 80.2 120.2#



#69
 Naphthalene
 Concen: 104.028 ug/L
 RT: 14.11 min Scan# 3972
 Delta R.T. -0.00 min
 Lab File: VU038708.D
 Acq: 09 Jun 2020 08:10

Tgt Ion: 128 Resp: 2918087
 Ion Ratio Lower Upper
 128 100
 127 13.1 10.6 16.0
 129 10.8 8.6 12.8

