

Data File : VU037058.D
Acq On : 04 Mar 2020 23:41
Operator : JC/MD
Sample : L1780-05
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 30 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
C0DF9

Quant Time: Mar 05 02:58:05 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM022420WMA.M
Quant Title : VOC Analysis
QLast Update : Thu Mar 05 02:52:45 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	258934	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	276128	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.84	152	140328	50.00	ug/L	0.02

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	90930	41.82	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	83.64%
7) Chloroethane-d5	1.92	69	86425	48.04	ug/L	0.01
Spiked Amount	50.000	Range	70 - 130	Recovery	=	96.08%
11) 1,1-Dichloroethene-d2	2.59	63	120008	32.96	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	65.92%
21) 2-Butanone-d5	4.67	46	146109	100.17	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	100.17%
24) Chloroform-d	5.10	84	180509	54.36	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	108.72%
26) 1,2-Dichloroethane-d4	5.74	65	113079	50.32	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	100.64%
32) Benzene-d6	5.77	84	357389	44.76	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	89.52%
36) 1,2-Dichloropropane-d6	6.72	67	115209	44.53	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	89.06%
41) Toluene-d8	7.93	98	319884	43.18	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	86.36%
43) trans-1,3-Dichloropropene-	8.20	79	48493	40.34	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	80.68%
47) 2-Hexanone-d5	8.66	63	107130	84.69	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	84.69%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	164493	45.10	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	90.20%
64) 1,2-Dichlorobenzene-d4	12.23	152	134116	48.89	ug/L	0.02
Spiked Amount	50.000	Range	80 - 120	Recovery	=	97.78%

Target Compounds

					Qvalue
3) Chloromethane	1.53	50	3454	1.367 ug/L	99
12) 1,1-Dichloroethene	2.59	96	1468	0.878 ug/L #	1
13) Acetone	2.65	43	6560	4.372 ug/L	96
25) Chloroform	5.13	83	417041	123.810 ug/L	100
27) 1,2-Dichloroethane	5.82	62	278418	101.528 ug/L #	75
29) Cyclohexane	5.42	56	7085	1.934 ug/L	96
34) Trichloroethene	6.57	95	3248	1.515 ug/L	99
35) Methylcyclohexane	6.79	83	4709	1.267 ug/L #	76
37) 1,2-Dichloropropane	6.72	63	12210	5.198 ug/L #	88
38) Bromodichloromethane	7.13	83	2893	1.043 ug/L #	89
39) cis-1,3-Dichloropropene	7.59	75	2942	0.813 ug/L #	43
46) Tetrachloroethene	8.57	164	1585	1.122 ug/L	93
49) Dibromochloromethane	8.83	129	3635	1.834 ug/L	86
59) 1,2,3-Trichloropropane	10.80	75	3676	1.217 ug/L #	1
61) Bromoform	10.31	173	7515	4.737 ug/L #	99
62) 1,3-Dichlorobenzene	11.77	146	5893077	1294.547 ug/L	98
63) 1,4-Dichlorobenzene	11.77	146	5893077	1310.291 ug/L	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU030420\
Quantitation Report (Not Reviewed)

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Quant Title : VOC Analysis
QLast Update : Thu Mar 05 02:52:45 2020
Response via : Initial Calibration

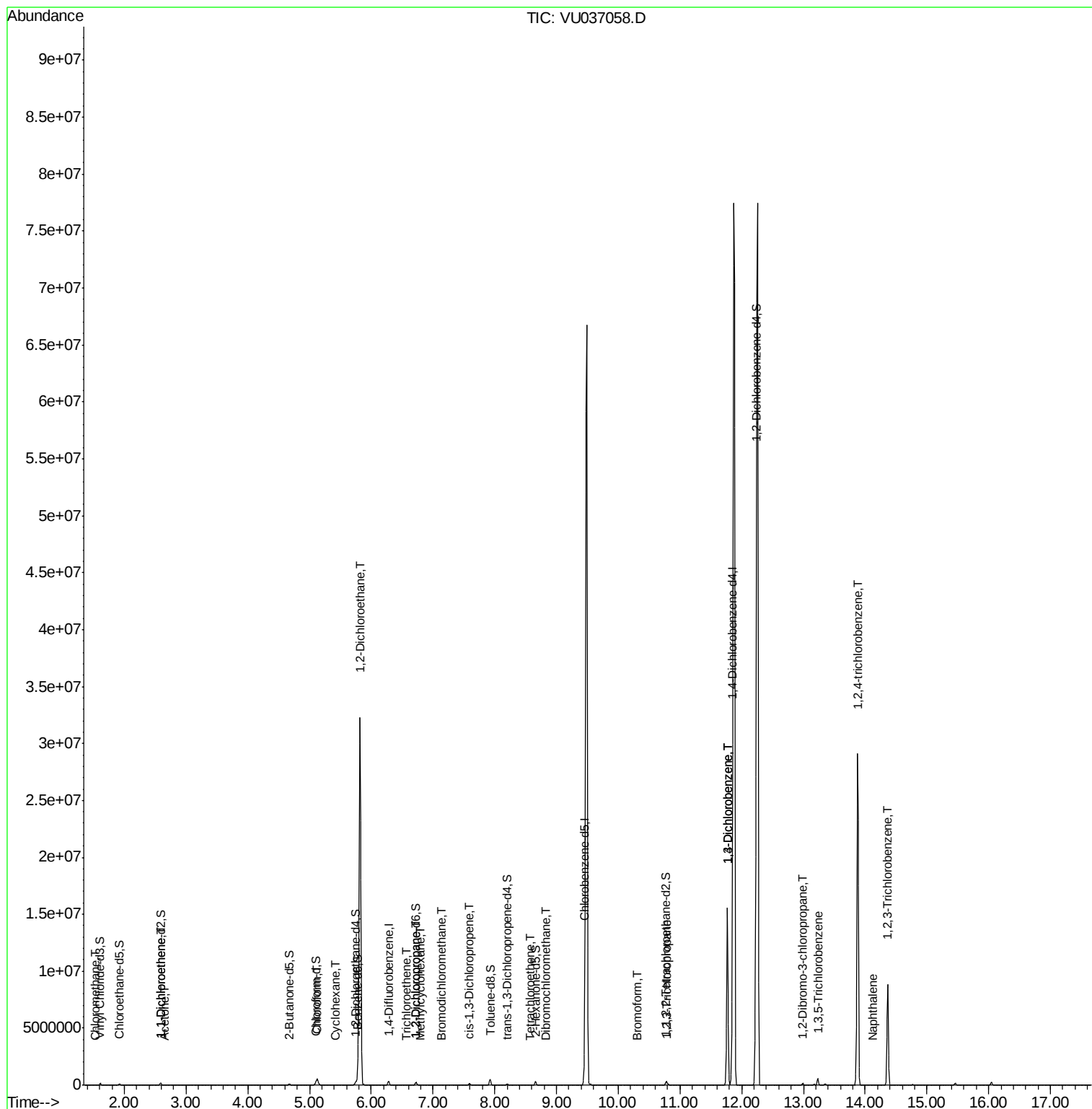
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
66) 1,2-Dibromo-3-chloropropan	12.99	75	30748	34.099	ug/L #	11
67) 1,3,5-Trichlorobenzene	13.24	180	4964	1.718	ug/L	99
68) 1,2,4-trichlorobenzene	13.88	180	7946566	3670.730	ug/L	99
69) Naphthalene	14.11	128	4163	1.089	ug/L #	93
70) 1,2,3-Trichlorobenzene	14.37	180	2364478	1092.978	ug/L	99

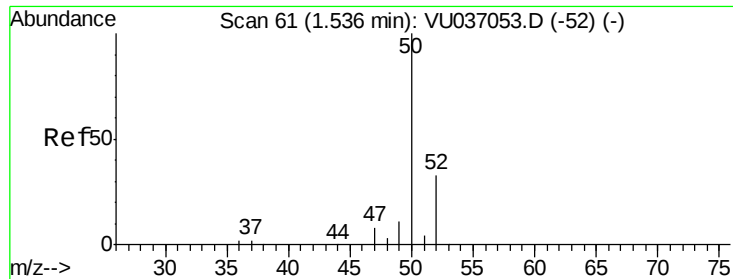
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 1.367 ug/L

RT: 1.53 min Scan# 60

Delta R.T. -0.00 min

Lab File: VU037058.D

Acq: 04 Mar 2020 23:41

Instrument :

MSVOA_U

ClientSampleId :

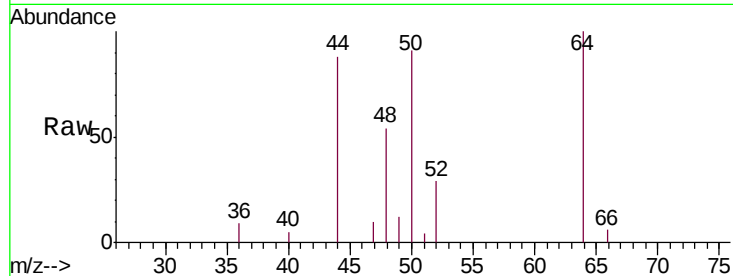
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Tgt Ion: 50 Resp: 3454

Ion Ratio Lower Upper

50 100

52 32.2 23.0 42.6



Abundance Ion 50.00 (49.70 to 50.70): VU037058.D (-52) (-)

Ion 52.00 (51.70 to 52.70): VU037058.D (-52) (-)

Time-->

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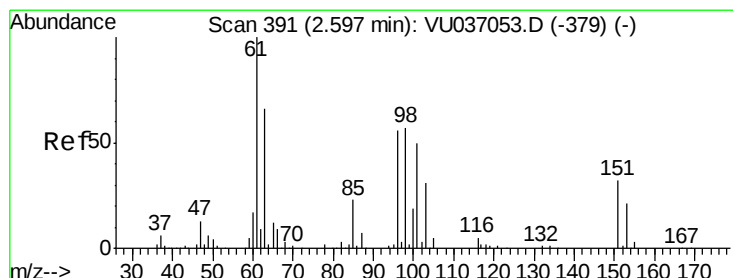
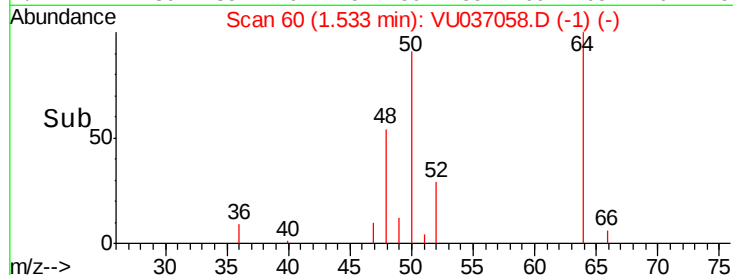
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#12

1,1-Dichloroethene

Concen: 0.878 ug/L

RT: 2.59 min Scan# 388

Delta R.T. -0.01 min

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Acq: 04 Mar 2020 23:41

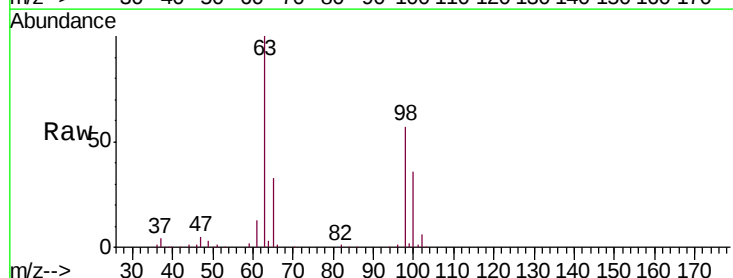
Tgt Ion: 96 Resp: 1468

Ion Ratio Lower Upper

96 100

61 1275.6 127.5 236.7#

63 10055.6 101.4 188.2#



Abundance Ion 96.00 (95.70 to 96.70): VU037058.D (-379) (-)

Ion 61.00 (60.70 to 61.70): VU037058.D (-379) (-)

Ion 63.00 (62.70 to 63.70): VU037058.D (-379) (-)

Time-->

2.59

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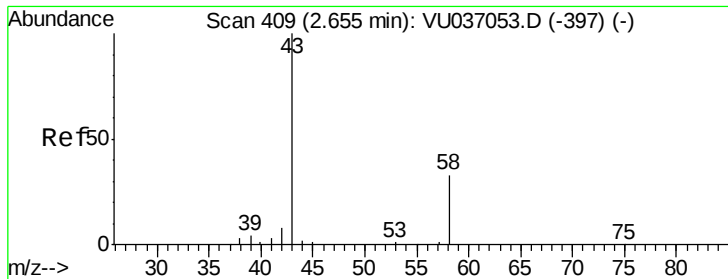
2.59

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#13

Acetone

Concen: 4.372 ug/L

RT: 2.65 min Scan# 408

Delta R.T. -0.00 min

Lab File: VU037058.D

Acq: 04 Mar 2020 23:41

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MSVOA_U

ClientSampleId :

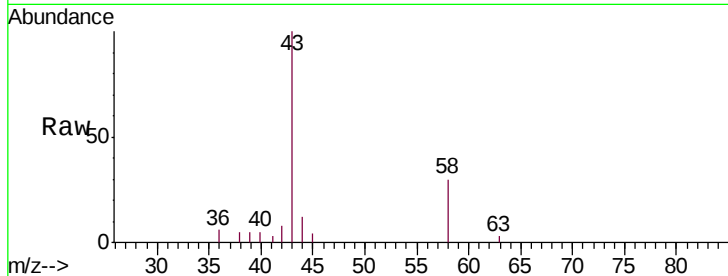
C0DF9

Tgt Ion: 43 Resp: 6560

Ion Ratio Lower Upper

43 100

58 30.2 0.0 64.6



Abundance Ion 43.00 (42.70 to 43.70): VU037053.D (-397) (-)

Ion 58.00 (57.70 to 58.70): VU037053.D (-397) (-)

2.65

4000

3000

2000

1000

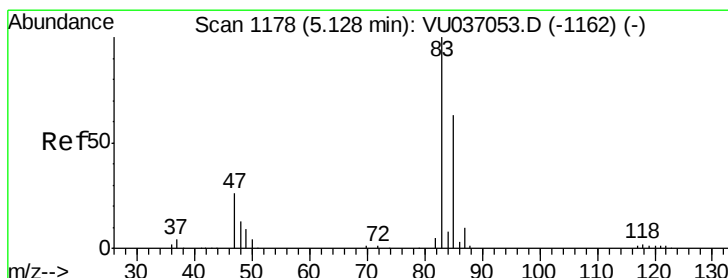
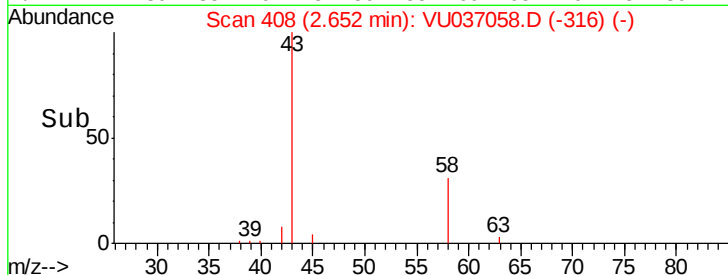
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Time-->

2.60

2.65

2.70



#25

Chloroform

Concen: 123.810 ug/L

RT: 5.13 min Scan# 1178

Delta R.T. 0.00 min

Lab File: VU037058.D

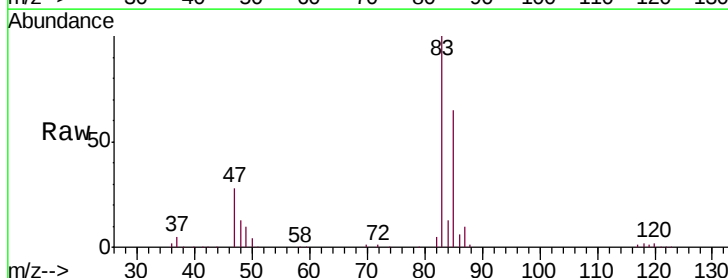
Acq: 04 Mar 2020 23:41

Tgt Ion: 83 Resp: 417041

Ion Ratio Lower Upper

83 100

85 64.6 45.1 83.9



Abundance Ion 83.00 (82.70 to 83.70): VU037053.D (-1162) (-)

Ion 85.00 (84.70 to 85.70): VU037053.D (-1162) (-)

5.13

200000

150000

100000

50000

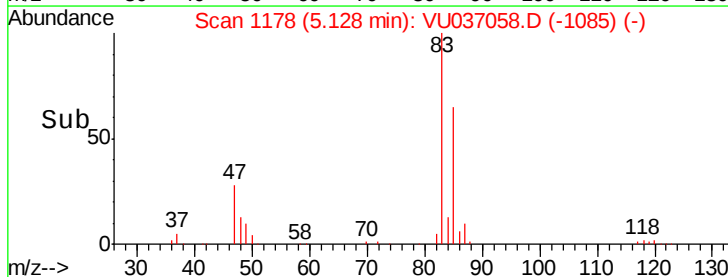
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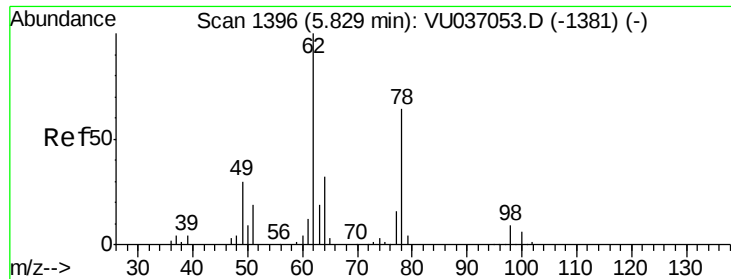
Time-->

5.10

5.13

5.20





#27

1,2-Dichloroethane

Concen: 101.528 ug/L

RT: 5.82 min Scan# 1393

Delta R.T. -0.01 min

Lab File: VU037058.D

Acq: 04 Mar 2020 23:41

Instrument :

MSVOA_U

ClientSampleId :

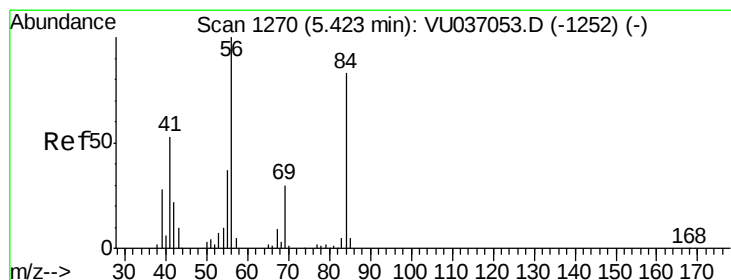
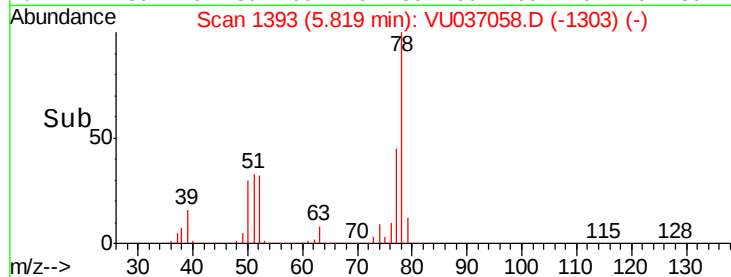
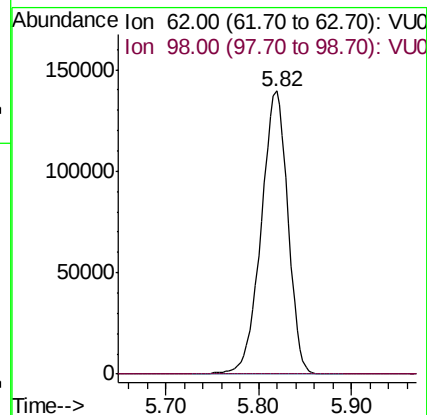
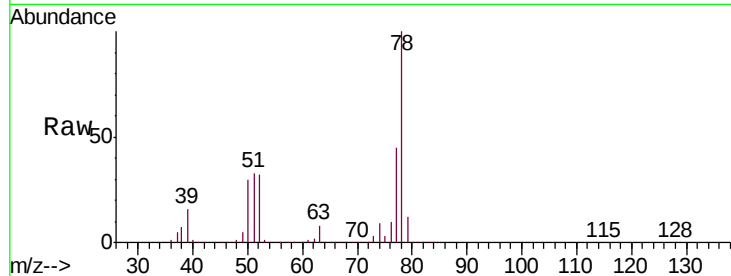
C0DF9

Tgt Ion: 62 Resp: 278418

Ion Ratio Lower Upper

62 100

98 0.0 7.1 10.7#



#29

Cyclohexane

Concen: 1.934 ug/L

RT: 5.42 min Scan# 1269

Delta R.T. -0.00 min

Lab File: VU037058.D

Acq: 04 Mar 2020 23:41

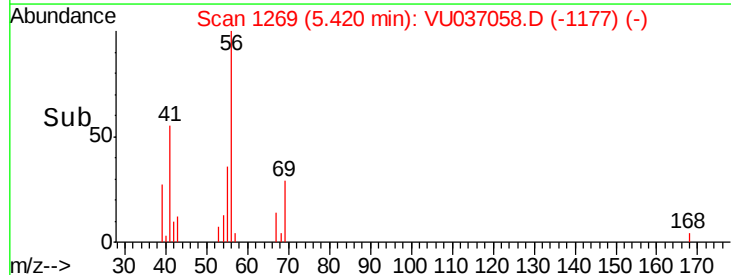
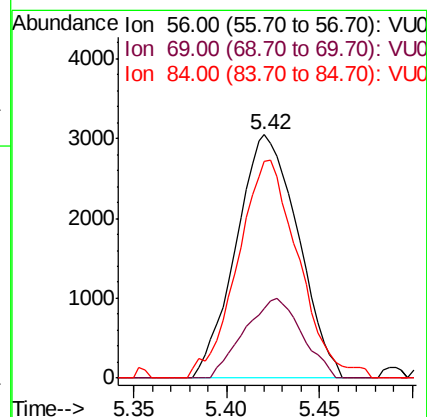
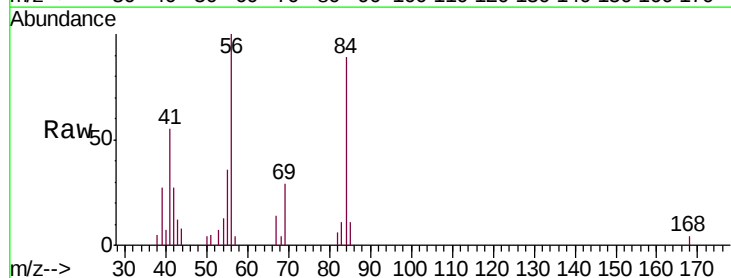
Tgt Ion: 56 Resp: 7085

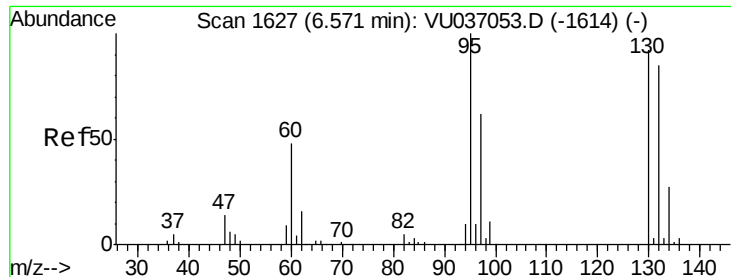
Ion Ratio Lower Upper

56 100

69 30.4 24.6 37.0

84 87.9 67.0 100.4

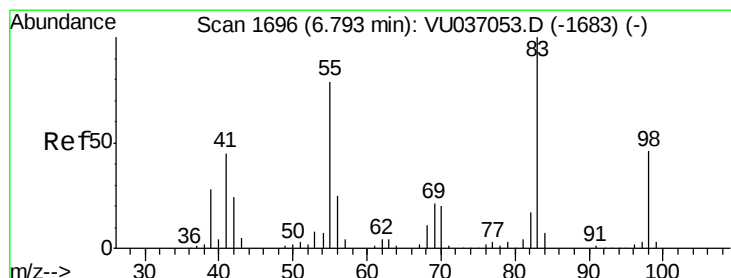
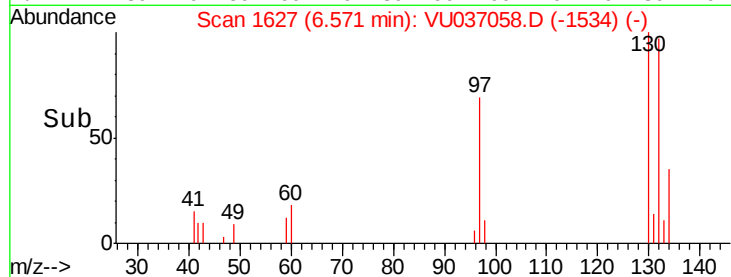
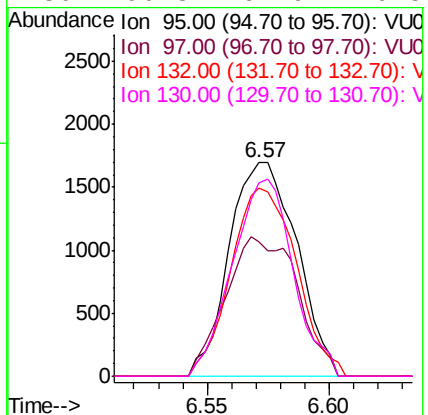
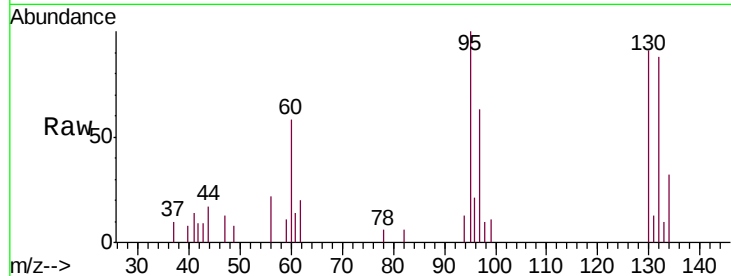




#34
 Trichloroethene
 Concen: 1.515 ug/L
 RT: 6.57 min Scan# 1627
 Delta R.T. 0.00 min
 Lab File: VU037058.D
 Acq: 04 Mar 2020 23:41

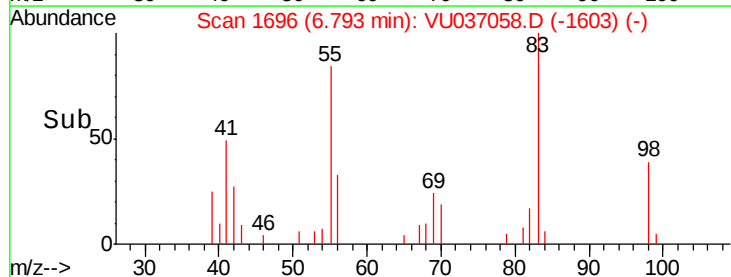
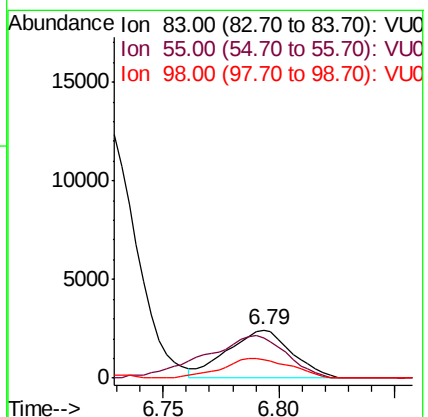
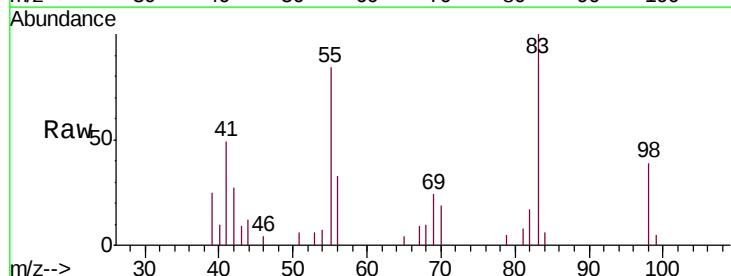
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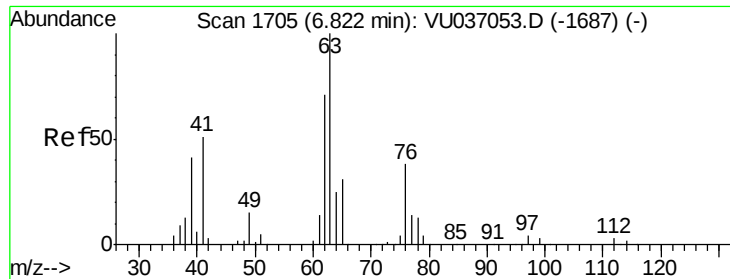
Tgt Ion: 95 Resp: 3248
 Ion Ratio Lower Upper
 95 100
 97 62.7 44.1 81.9
 132 88.3 60.6 112.6
 130 90.8 64.9 120.5



#35
 Methylcyclohexane
 Concen: 1.267 ug/L
 RT: 6.79 min Scan# 1696
 Delta R.T. 0.00 min
 Lab File: VU037058.D
 Acq: 04 Mar 2020 23:41

Tgt Ion: 83 Resp: 4709
 Ion Ratio Lower Upper
 83 100
 55 110.9 62.6 93.8#
 98 43.7 35.1 52.7

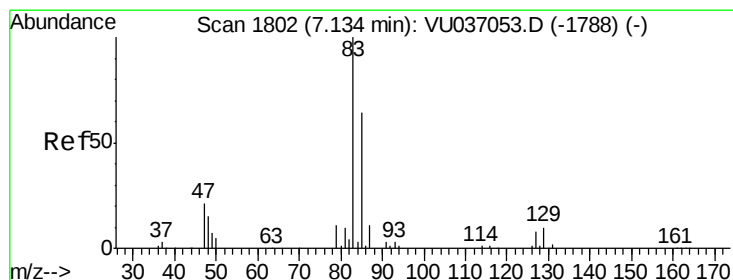
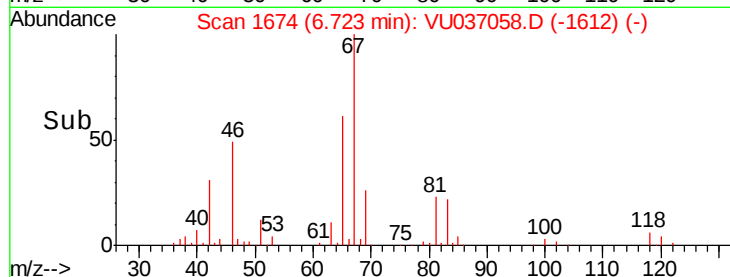
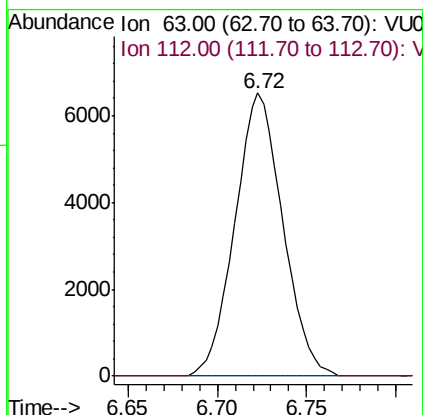
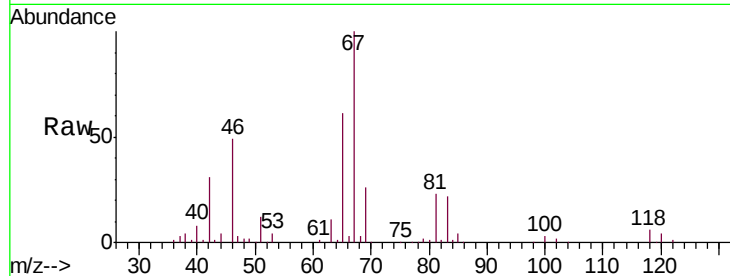




#37
 1,2-Dichloropropane
 Concen: 5.198 ug/L
 RT: 6.72 min Scan# 1674
 Delta R.T. -0.10 min
 Lab File: VU037058.D
 Acq: 04 Mar 2020 23:41

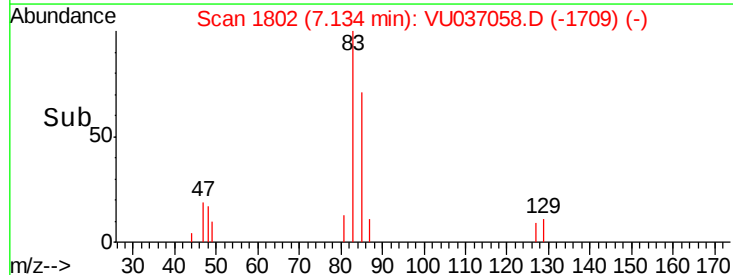
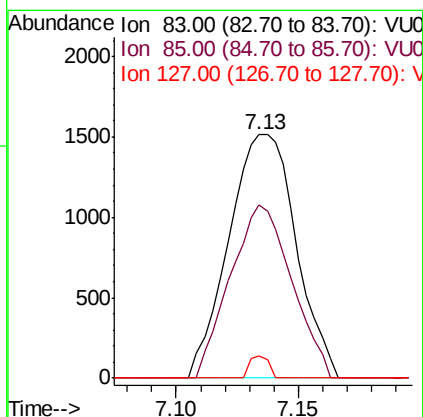
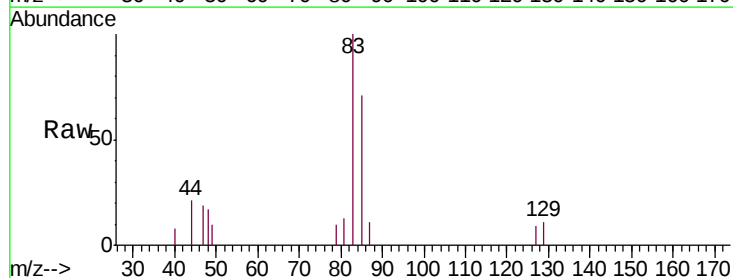
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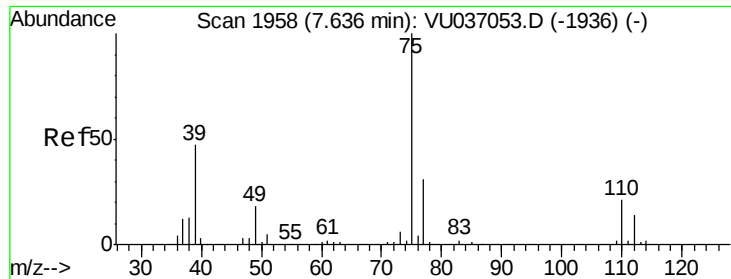
Tgt Ion: 63 Resp: 12210
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.0 4.6#



#38
 Bromodichloromethane
 Concen: 1.043 ug/L
 RT: 7.13 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VU037058.D
 Acq: 04 Mar 2020 23:41

Tgt Ion: 83 Resp: 2893
 Ion Ratio Lower Upper
 83 100
 85 71.3 43.6 81.0
 127 9.2 6.0 9.0#

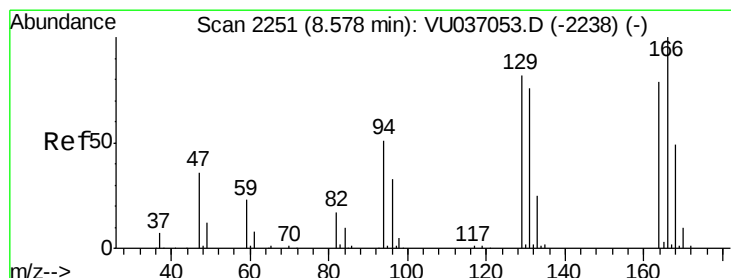
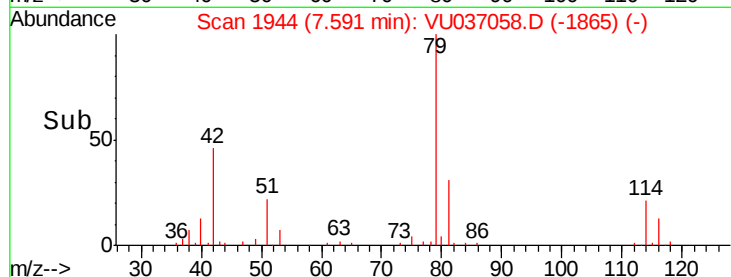
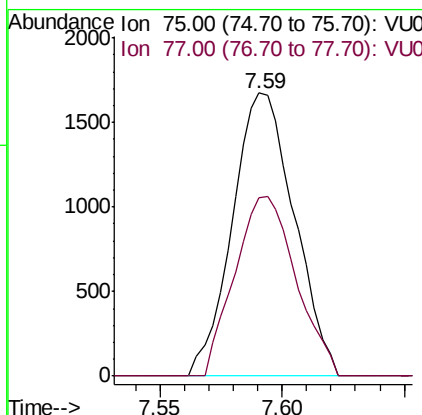
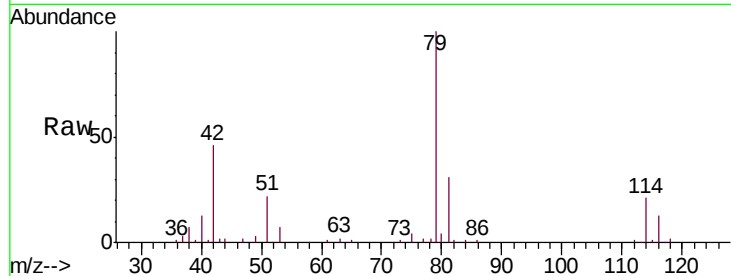




#39
 cis-1,3-Dichloropropene
 Concen: 0.813 ug/L
 RT: 7.59 min Scan# 1944
 Delta R.T. -0.04 min
 Lab File: VU037058.D
 Acq: 04 Mar 2020 23:41

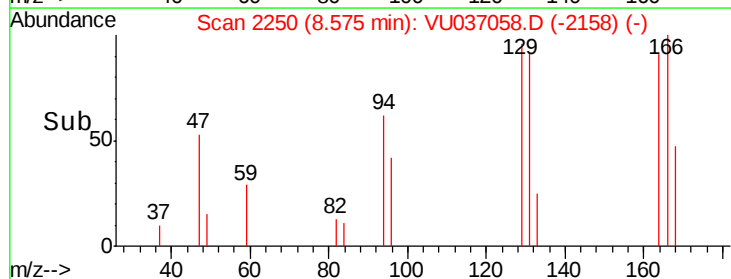
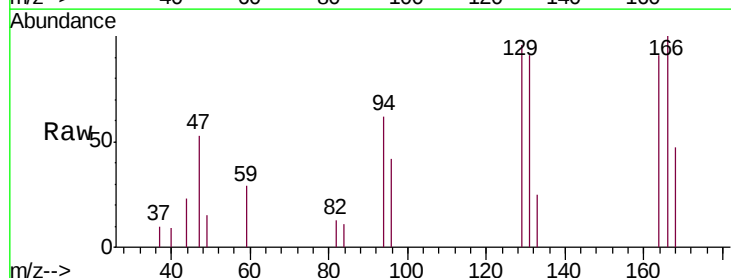
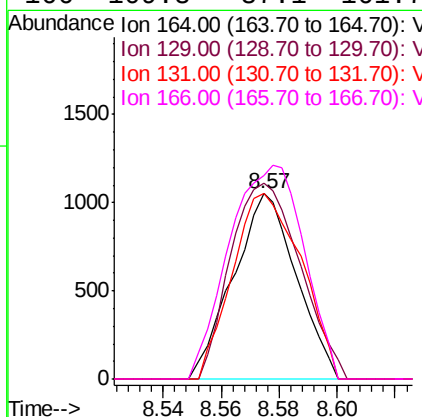
Instrument :
 MSVOA_U
 ClientSampleId :
 C0DF9

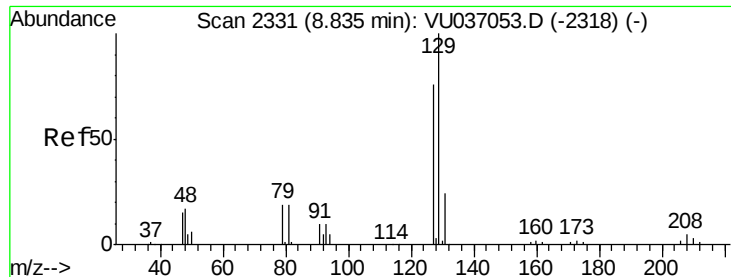
Tgt Ion: 75 Resp: 2942
 Ion Ratio Lower Upper
 75 100
 77 62.9 22.0 41.0#



#46
 Tetrachloroethene
 Concen: 1.122 ug/L
 RT: 8.57 min Scan# 2250
 Delta R.T. -0.00 min
 Lab File: VU037058.D
 Acq: 04 Mar 2020 23:41

Tgt Ion: 164 Resp: 1585
 Ion Ratio Lower Upper
 164 100
 129 105.8 72.0 133.8
 131 99.9 67.9 126.1
 166 109.8 87.1 161.7





#49

Dibromochloromethane

Concen: 1.834 ug/L

RT: 8.83 min Scan# 2330

Delta R.T. -0.00 min

Lab File: VU037058.D

Acq: 04 Mar 2020 23:41

Instrument :

MSVOA_U

ClientSampleId :

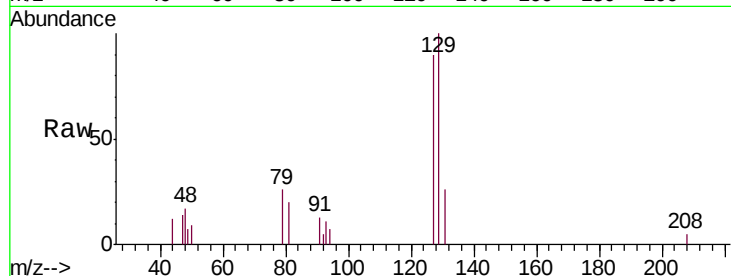
C0DF9

Tgt Ion:129 Resp: 3635

Ion Ratio Lower Upper

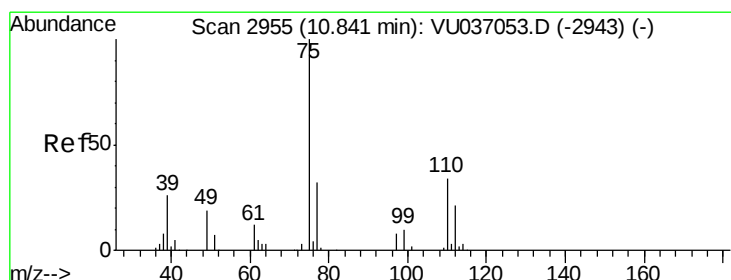
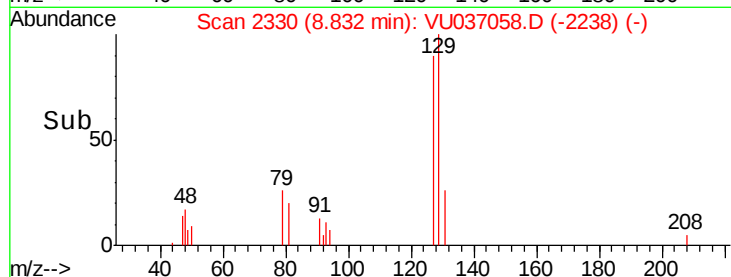
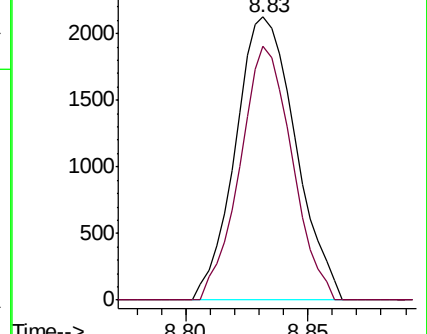
129 100

127 89.8 54.3 100.8



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#59

1,2,3-Trichloropropane

Concen: 1.217 ug/L

RT: 10.80 min Scan# 2942

Delta R.T. -0.04 min

Lab File: VU037058.D

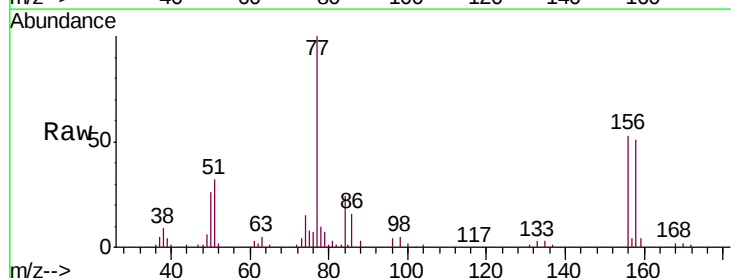
Acq: 04 Mar 2020 23:41

Tgt Ion: 75 Resp: 3676

Ion Ratio Lower Upper

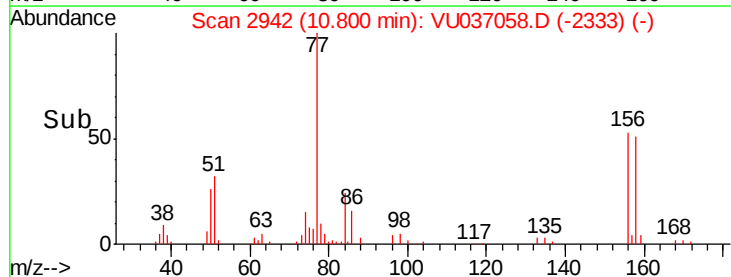
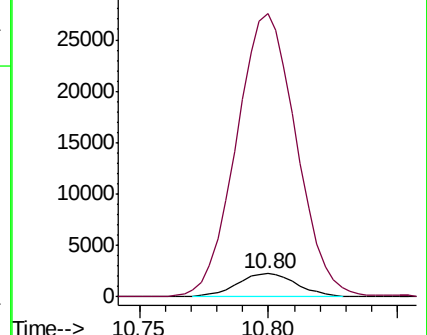
75 100

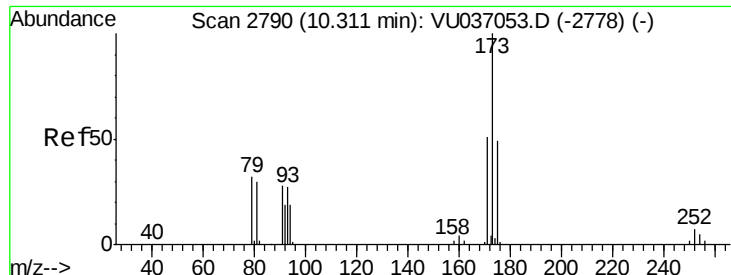
77 1220.2 26.2 39.2#



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

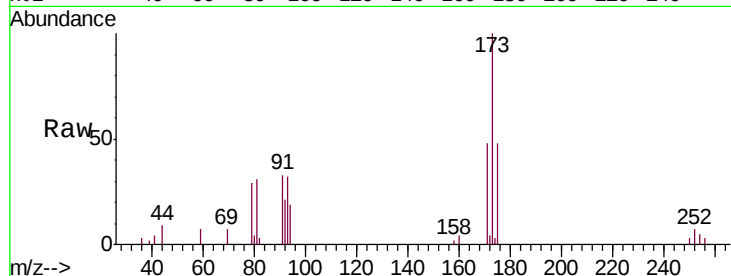




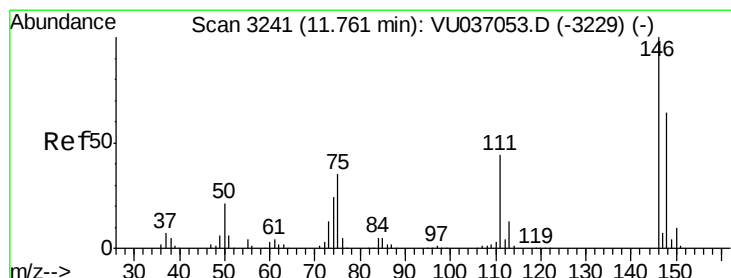
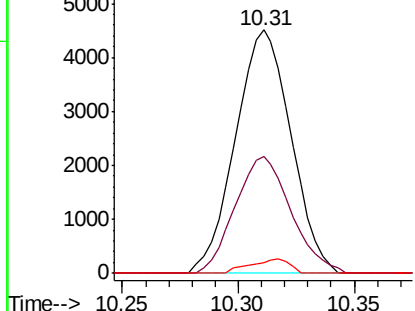
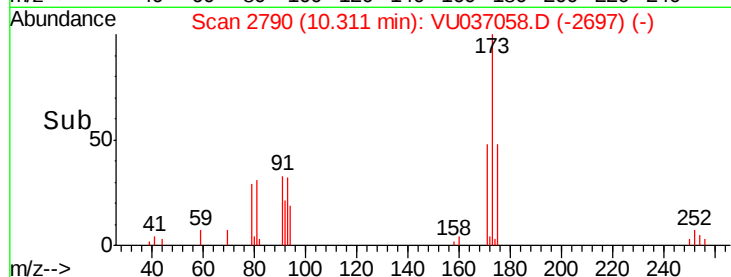
#61
Bromoform
Concen: 4.737 ug/L
RT: 10.31 min Scan# 2790
Delta R.T. 0.00 min
Lab File: VU037058.D
Acq: 04 Mar 2020 23:41

Instrument :
MSVOA_U
ClientSampleId :
C0DF9

Tgt Ion:173 Resp: 7515
Ion Ratio Lower Upper
173 100
175 48.3 39.0 58.6
254 4.2 4.6 6.8#

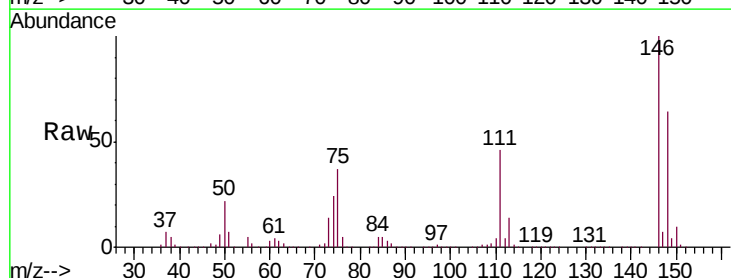


Abundance Ion 173.00 (172.70 to 173.70): V
Ion 175.00 (174.70 to 175.70): V
Ion 254.00 (253.70 to 254.70): V

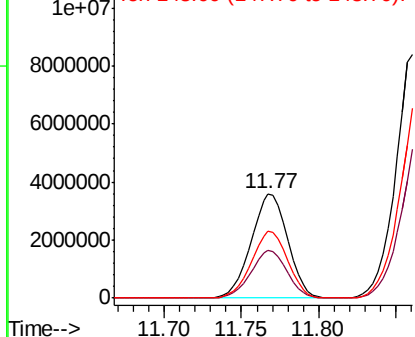
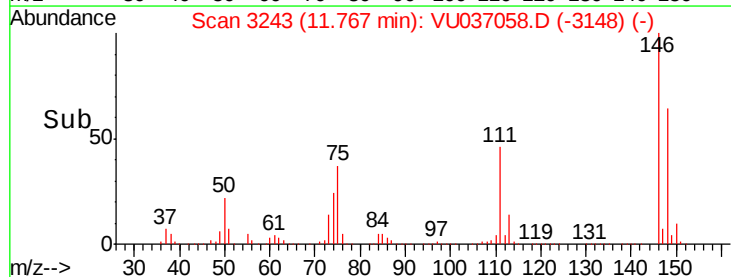


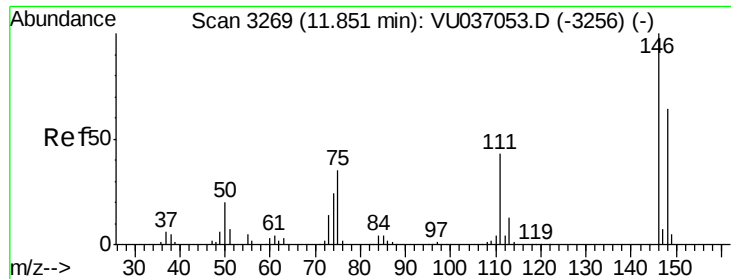
#62
1,3-Dichlorobenzene
Concen: 1294.547 ug/L
RT: 11.77 min Scan# 3243
Delta R.T. 0.01 min
Lab File: VU037058.D
Acq: 04 Mar 2020 23:41

Tgt Ion:146 Resp: 5893077
Ion Ratio Lower Upper
146 100
111 45.7 30.7 56.9
148 64.1 44.2 82.2



Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V

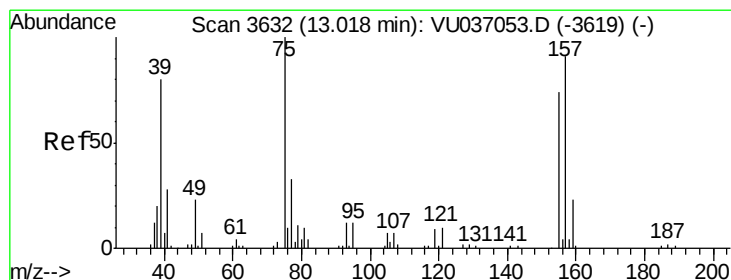
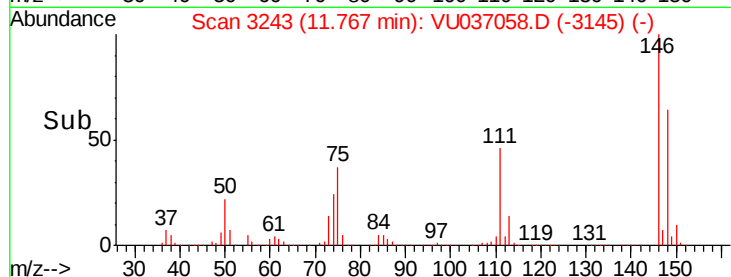
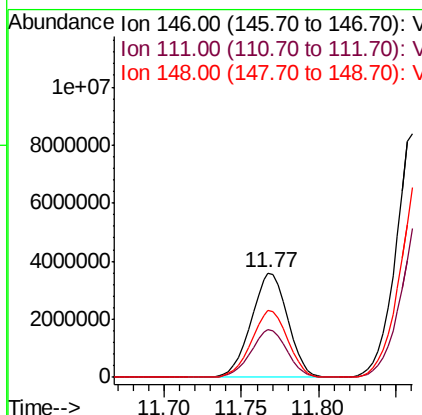
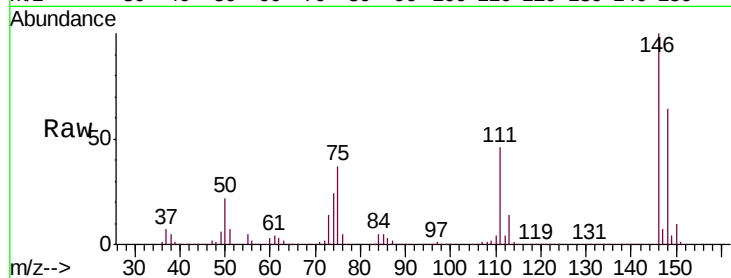




#63
 1,4-Dichlorobenzene
 Concen: 1310.291 ug/L
 RT: 11.77 min Scan# 3243
 Delta R.T. -0.08 min
 Lab File: VU037058.D
 Acq: 04 Mar 2020 23:41

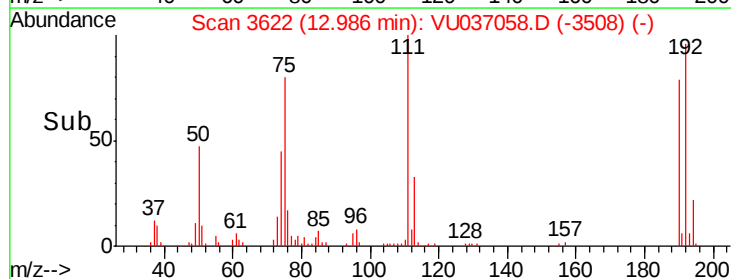
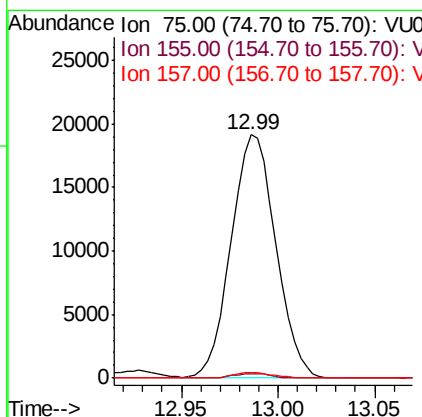
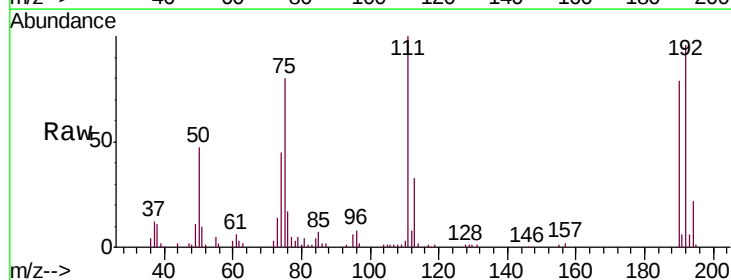
Instrument :
 MSVOA_U
 ClientSampled :
 C0DF9

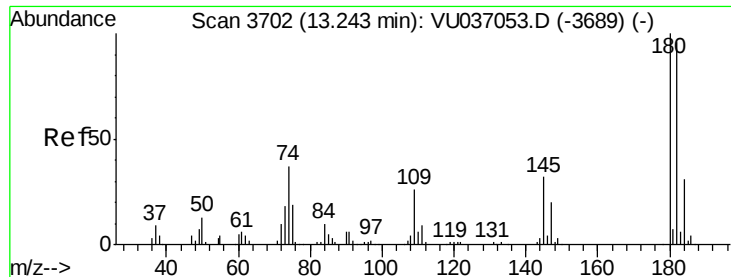
Tgt Ion:146 Resp: 5893077
 Ion Ratio Lower Upper
 146 100
 111 45.7 29.8 55.4
 148 64.1 45.1 83.9



#66
 1,2-Dibromo-3-chloropropane
 Concen: 34.099 ug/L
 RT: 12.99 min Scan# 3622
 Delta R.T. -0.03 min
 Lab File: VU037058.D
 Acq: 04 Mar 2020 23:41

Tgt Ion: 75 Resp: 30748
 Ion Ratio Lower Upper
 75 100
 155 1.7 55.7 83.5#
 157 2.4 73.0 109.6#

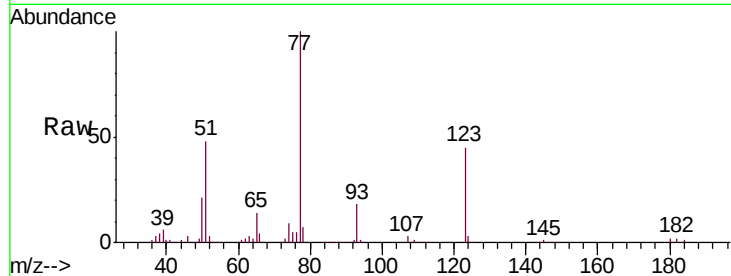




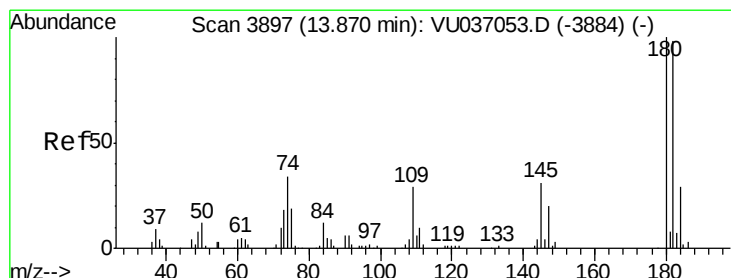
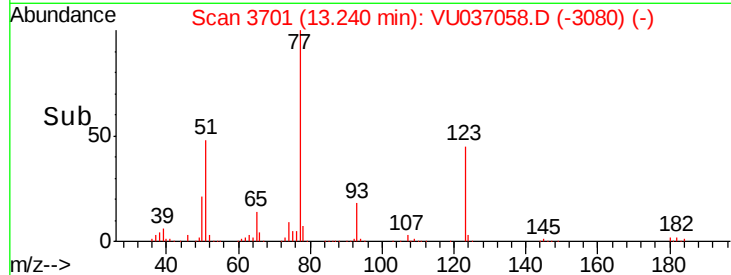
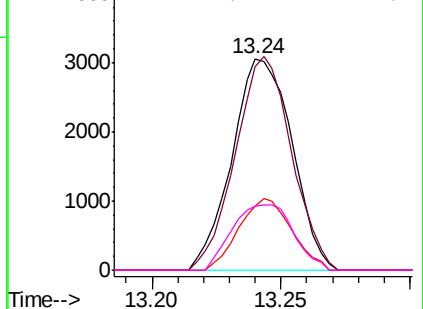
#67
 1,3,5-Trichlorobenzene
 Concen: 1.718 ug/L
 RT: 13.24 min Scan# 3701
 Delta R.T. -0.00 min
 Lab File: VU037058.D
 Acq: 04 Mar 2020 23:41

Instrument :
 MSVOA_U
 ClientSampleId :
 C0DF9

Tgt Ion:	180	Resp:	4964
Ion	Ratio	Lower	Upper
180	100		
182	94.2	76.9	115.3
184	29.8	24.2	36.2
145	31.5	25.3	37.9

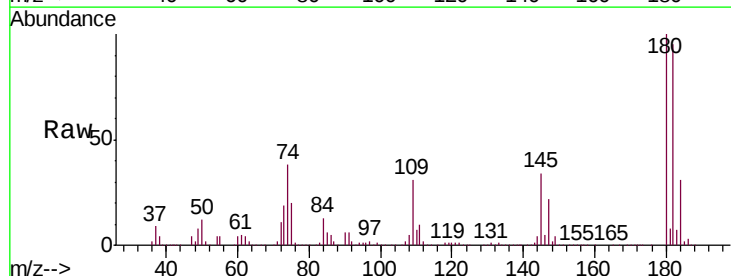


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

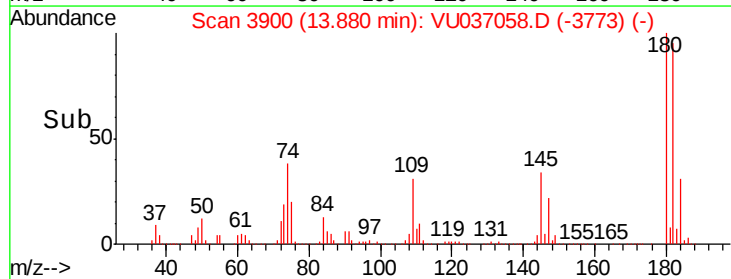
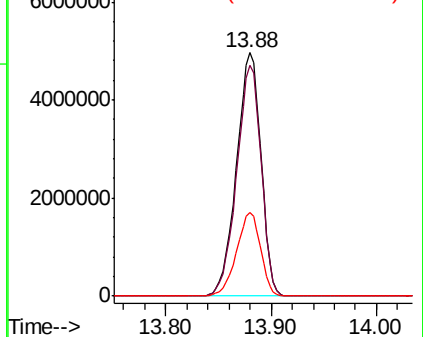


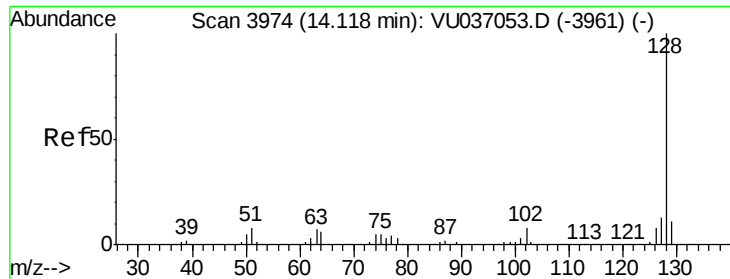
#68
 1,2,4-trichlorobenzene
 Concen: 3670.730 ug/L
 RT: 13.88 min Scan# 3900
 Delta R.T. 0.01 min
 Lab File: VU037058.D
 Acq: 04 Mar 2020 23:41

Tgt Ion:	180	Resp:	7946566
Ion	Ratio	Lower	Upper
180	100		
182	94.7	75.3	112.9
145	33.8	26.2	39.4



Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 1.089 ug/L

RT: 14.11 min Scan# 3973

Delta R.T. -0.00 min

Lab File: VU037058.D

Acq: 04 Mar 2020 23:41

Instrument :

MSVOA_U

ClientSampleId :

C0DF9

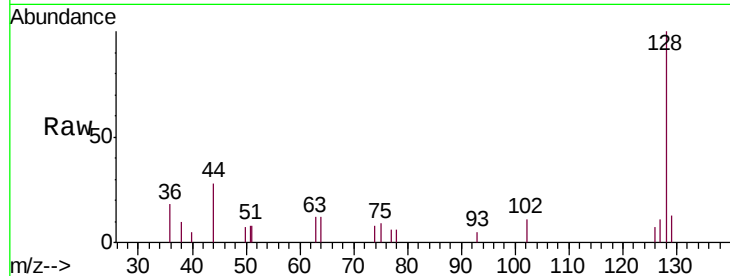
Tgt Ion:128 Resp: 4163

Ion Ratio Lower Upper

128 100

127 9.2 11.0 16.4#

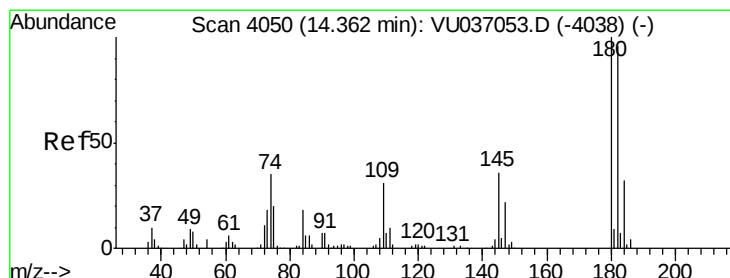
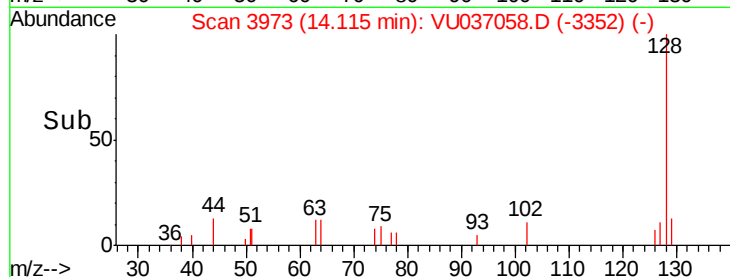
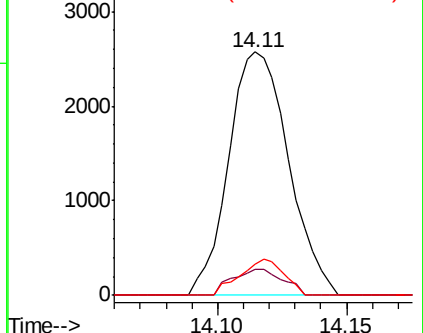
129 10.9 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 1092.978 ug/L

RT: 14.37 min Scan# 4051

Delta R.T. 0.00 min

Lab File: VU037058.D

Acq: 04 Mar 2020 23:41

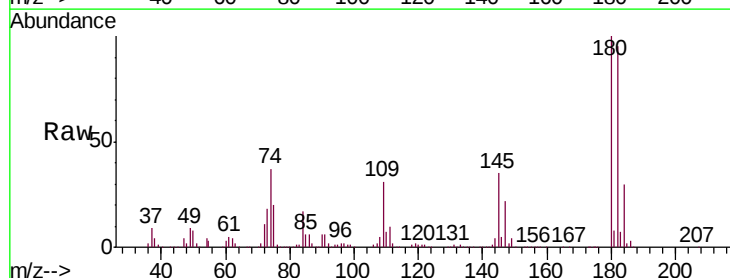
Tgt Ion:180 Resp: 2364478

Ion Ratio Lower Upper

180 100

182 95.2 77.0 115.6

145 34.8 28.1 42.1



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

